Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
300001 2006 UA_{35}	16.6	X	327.56405	353.16800	214.28925	1.77296	0.0106074	0.17334202	3.1856653	20	2 26.6	21.1
300002 2006 US_{35}	16.1	X	272.99005	133.19781	229.57039	8.38122	0.0471557	0.19283744	2.9671658	20	6 26.4	20.3
300003 2006 UK_{37}	16.6	X	173.36753	75.07324	331.31517	0.61784	0.1763980	0.18054226	3.1003934	20	4 27.2	21.8
300004 2006 UC_{40}	16.6	X	295.99057	75.19253	232.08877	2.18399	0.2293393	0.19170429	2.9788468	20	4 18.2	20.7
300005 2006 UQ_{40}	15.5	X	262.13997	71.31348	227.52469	9.84735	0.0976926	0.17885506	3.1198609	20	3 14.8	20.2
300006 2006 UY_{42}	15.7	X	93.54276	83.61522	50.74821	8.57464	0.0673468	0.17991536	3.1075912	20	5 12.8	19.9
300007 2006 UU_{47}	15.5	X	271.02457	340.90704	268.93424	8.41477	0.1737884	0.17998720	3.1067643	20	1 20.1	20.4
300008 2006 UC_{50}	15.4	X	20.16151	221.02250	4.00399	10.53301	0.0684822	0.18869032	3.0104839	20	5 25.9	19.4
300009 2006 UA_{53}	16.2	X	271.82637	250.79879	70.10249	1.87403	0.1787914	0.18760020	3.0221350	20	4 14.9	20.6
300010 2006 UA_{54}	16.0	X	252.41446	114.44529	224.54365	8.77497	0.1000396	0.18317785	3.0705824	20	4 24.4	20.5
300011 2006 UC_{68}	15.7	X	136.65840	7.95150	74.19951	10.48097	0.1798128	0.17922907	3.1155191	20	5 10.2	20.8
300012 2006 UN_{68}	16.5	X	291.42783	208.95433	115.82962	3.80651	0.2774169	0.19573969	2.9377632	20	4 29.5	20.7
300013 2006 UG_{72}	16.6	X	311.49175	73.34641	292.14234	1.02955	0.2505894	0.20949814	2.8076907	20	7 30.8	19.1
300014 2006 UG_{73}	16.2	X	172.43287	71.28712	6.25151	10.56488	0.0607685	0.18771470	3.0209059	20	5 29.9	20.9
300015 2006 UQ_{73}	15.8	X	138.05857	94.85795	353.78492	7.13161	0.0918218	0.18264900	3.0765066	20	5 7.9	20.6
300016 2006 UO_{74}	16.5	X	127.88291	178.23155	264.35277	3.79499	0.1177452	0.17906134	3.1174643	20	4 23.4	21.2
300017 2006 UU_{78}	15.5	X	273.26386	72.62242	234.82353	8.42571	0.0731501	0.18452899	3.0555752	20	4 11.6	19.8
300018 2006 UZ_{79}	16.4	X	127.16476	232.41613	196.31368	10.05092	0.0532987	0.17702649	3.1413082	20	3 30.5	21.0
300019 2006 UU_{84}	16.6	X	169.27673	49.54400	55.49918	2.67736	0.0576872	0.18827493	3.0149102	20	7 2.9	21.0
300020 2006 UM_{85}	16.0	X	189.56557	354.86332	51.43277	6.18685	0.1490039	0.18173434	3.0868205	20	5 11.3	20.8
300021 2006 UV_{86}	16.3	X	153.62630	168.56555	237.77880	4.01772	0.1860664	0.17558739	3.1584487	20	4 10.1	21.6
300022 2006 UE_{89}	15.7	X	43.40136	187.93595	39.77300	8.90323	0.0546010	0.18972383	2.9995410	20	7 5.1	19.8
300023 2006 UD_{91}	16.3	X	212.13478	301.80714	62.72624	1.76061	0.1879668	0.18136291	3.0910336	20	4 10.9	21.5
300024 2006 UZ_{91}	16.6	X	236.58914	235.29377	135.37979	1.36297	0.2413719	0.18989667	2.9977206	20	5 5.1	21.5
300025 2006 UL_{92}	16.4	X	74.00080	308.40765	190.39391	4.52018	0.0881651	0.17853760	3.1235581	20	4 27.2	20.6
300026 2006 UO_{97}	16.5	X	175.69861	229.67806	177.81791	3.74626	0.2154633	0.18152355	3.0892097	20	5 2.2	21.7
300027 2006 UK_{98}	15.8	X	110.93271	322.75500	203.86650	12.89691	0.0827647	0.19037337	2.9927142	20	7 13.9	20.4
300028 2006 UT_{98}	15.6	X	145.13374	244.60200	190.75111	8.22086	0.1289783	0.17937651	3.1138116	20	5 5.7	20.5
300029 2006 UM_{100}	15.9	X	207.04916	199.01524	197.80844	12.52229	0.0808622	0.18575990	3.0420620	20	5 20.2	20.6
300030 2006 UX_{101}	16.2	X	281.59299	132.44379	194.00590	10.27258	0.0532279	0.18783986	3.0195638	20	5 22.4	20.4
300031 2006 UC_{107}	16.5	X	213.72976	209.66567	136.38173	2.65323	0.1792425	0.17987209	3.1080896	20	3 22.3	21.5
300032 2006 UA_{109}	16.0	X	298.37064	115.26813	200.71158	9.01839	0.2211816	0.19183819	2.9774604	20	5 5.3	19.9
300033 2006 UG_{109}	16.2	X	198.70007	305.14654	69.63720	11.24936	0.0891776	0.17944381	3.1130331	20	4 17.4	21.1
300034 2006 UN_{113}	16.5	X	142.77235	265.47568	209.60412	7.71232	0.0685697	0.18930940	3.0039170	20	6 15.9	21.0
300035 2006 UN_{123}	16.6	X	279.32932	97.18321	154.16502	1.07053	0.1058912	0.17519766	3.1631310	20	2 8.9	21.3
300036 2006 UV_{123}	16.5	X	85.12584	291.34743	201.46565	10.97979	0.0731644	0.18116833	3.0932465	20	5 2.1	20.7
300037 2006 UL_{131}	15.9	X	238.95394	92.63239	226.85249	6.16485	0.0641305	0.17925132	3.1152612	20	3 19.0	20.6
300038 2006 UF_{132}	15.7	X	322.44977	303.96397	318.53727	4.10743	0.1269941	0.18691605	3.0295049	20	4 12.2	19.5
300039 2006 UT_{132}	16.9	X	264.29772	154.38347	208.66664	1.57249	0.1205555	0.19240019	2.9716595	20	6 5.6	21.1
300040 2006 UY_{133}	16.2	X	209.09278	224.12523	173.58482	1.06642	0.1954842	0.18659193	3.0330121	20	5 16.9	21.3
300041 2006 UR_{135}	16.2	X	263.84577	97.99911	206.90348	8.22288	0.2121211	0.18466413	3.0540843	20	3 12.5	21.0
300042 2006 UY_{135}	15.9	X	15.05883	8.53195	205.30596	9.71638	0.1420189	0.18250677	3.0781047	20	5 10.2	19.5
300043 2006 UT_{137}	15.7	X	254.14191	310.11963	26.59143	9.28850	0.1433753	0.18498897	3.0505079	20	4 18.8	20.4
300044 2006 UU_{137}	15.7	X	170.93950	33.36622	6.01900	5.33734	0.1528262	0.17822791	3.1271754	20	4 15.6	20.8
300045 2006 UQ_{139}	17.0	X	238.70421	280.51338	93.65787	3.06053	0.0932461	0.18628445	3.0363487	20	5 24.6	21.4
300046 2006 UQ_{140}	16.1	X	214.32813	24.62937	6.03288	4.74016	0.1666201	0.18566043	3.0431486	20	5 12.9	21.0
300047 2006 UB_{141}	16.6	X	226.64394	7.59873	1.09818	3.92999	0.1672162	0.18492588	3.0512017	20	4 27.7	21.6
300048 2006 UC_{141}	16.1	X	153.59153	181.92394	220.85767	9.42176	0.0725788	0.17390079	3.1788376	20	3 28.9	21.0
300049 2006 UB_{142}	16.3	X	259.27907	278.43096	26.31129	9.63221	0.1020647	0.17872004	3.1214320	20	3 24.2	20.9
300050 2006 UX_{166}	15.7	X	310.15201	85.35328	191.94388	11.04704	0.1110439	0.18688053	3.0298887	20	4 18.8	19.7
300051 2006 UU_{169}	16.5	X	184.65305	318.28364	137.74166	3.85403	0.0528640	0.19304767	2.9650112	20	7 8.8	20.9
300052 2006 UW_{169}	16.6	X	196.00504	232.44416	155.59854	4.18126	0.1393587	0.18364157	3.0654110	20	4 26.7	21.5
300053 2006 UG_{172}	15.4	X	193.11796	22.37838	39.43659	10.54077	0.0598912	0.18550581	3.0448393	20	6 3.2	20.0
300054 2006 UH_{173}	16.6	X	188.96555	232.17652	119.50331	2.37433	0.1866647	0.17424057	3.1747037	20	3 8.9	21.9
300055 2006 UQ_{178}	16.3	X	264.32168	300.42669	140.41522	7.21815	0.1600477	0.20547683	2.8442045	20	9 12.0	20.0
300056 2006 US_{181}	15.3	X	157.22681	282.56127	109.48492	10.53948	0.0918607	0.17505223	3.1648827	20	3 28.1	20.3
300057 2006 UF_{183}	15.5	X	270.07099	71.43428	256.02804	12.61766	0.1195404	0.19340243	2.9613843	20	4 25.3	19.9
300058 2006 US_{184}	15.5	X	253.94872	77.40830	266.30861	8.49783	0.0504021	0.18725421	3.0258565	20	5 6.9	19.9
300059 2006 UV_{186}	15.6	X	230.71234	13.68923	331.89258	16.27670	0.1001999	0.18584891	3.0410907	20	4 1.9	20.5
300060 2006 UO_{187}	17.0	X	203.80058	99.26884	280.79493	9.79552	0.3522494	0.18566340	3.0431161	20	4 14.1	22.9
300061 2006 UA_{189}	16.1	X	269.82399	41.90736	328.52351	9.06545	0.1184001	0.19631918	2.9319792	20	6 22.9	20.3
300062 2006 UR_{189}	15.2	X	224.66593	20.04358	318.54729	10.33366	0.1264954	0.18223624	3.0811503	20	3 20.3	20.3
300063 2006 UH_{193}	16.6	X	346.76342	290.85100	62.01035	0.65673	0.0838067	0.21287644	2.7779066	20	10 1.6	19.8
300064 2006 UJ_{194}	16.5	X	201.81054	306.85869	52.45819	1.19766	0.1843065	0.18073987	3.0981331	20	3 27.3	21.7
300065 2006 UJ_{196}	15.8	X	160.86086	206.30363	220.94372	12.35787	0.1125390	0.18139006	3.0907252	20	5 9.4	20.7
300066 2006 UM_{200}	17.7	X	148.63740	123.90912	223.10005	20.31855	0.0898970	0.38366934	1.8757055	20	—	—
300067 2006 UB_{201}	15.5	X	172.97945	197.51819	231.42682	16.40199	0.2160815	0.18233058	3.0800874	20	5 24.7	20.7
300068 2006 UF_{204}	15.4	X	291.52314	8.69191	302.61348	9.44818	0.1072765	0.18857455	3.0117159	20	5 2.8	19.7
300069 2006 UP_{204}	15.2	X	279.28393	309.26347	17.32207	9.99939	0.1038046	0.18807830	3.0170112	20	5 8.1	19.5
300070 2006 UA_{206}	15.3	X	9.82701	342.32185	209.87193	9.08663	0.0270876	0.17931624	3.1145094	20	3 30.4	19.6
300071 2006 UU_{206}	16.4	X	111.60190	311.70113	170.44611	1.43077	0.1333302	0.18217360	3.0818566	20	5 27.9	21.0
300072 2006 UV_{206}	15.8	X	99.46869	245.93557	209.49995	15.24761	0.0805306	0.17601228	3.1533638	20	4 2.1	20.2
300073 2006 UD_{207}	16.4	X	254.62052	259.94765	59.98587	3.84342	0.1802105	0.18579050	3.0417281	20	3 28.2	21.2
300074 2006 UQ_{207}	15.3	X	145.35267	73.50826	300.43881	12.19872	0.1663618	0.17217106	3.2000931	20	2 21.5	20.4
300075 2006 UV_{208}	15.9	X	196.33537	136.30681	210.00047	8.92778	0.0866418	0.17508487	3.1644894	20	3 5.5	20.9
300076 2006 UC_{211}	16.2	X	139.98002	58.15981	0.49737	4.55231	0.1896294	0.17453631	3.1711165	20	4 13.1	21.3
300077 2006 UC_{214}	15.9	X	192.11262	352.79832	37.44877	10.94457	0.0589570	0.17950003	3.1123830	20	4 25.6	20.5
300078 2006 UV_{214}	15.4	X	282.81701	273.95744	25.46522	10.91597	0.1175547	0.18315844	3.0707992	20	4 9.7	19.8
300079 2006 UF_{215}	16.7	X	222.89073	314.92579	26.40578	9.37861	0.0891726	0.18030733	3.1030859	20	3 30.2	21.5
300080 2006 UR_{215}	15.8	X	161.71610	90.91911	343.99111	9.24679	0.0989927	0.18263325	3.0766835	20	5 15.7	20.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
300081 2006 UB_{217}	16.2	X	236.41838	226.02759	158.20136	13.86473	0.2803811	0.18937108	3.0032647	20	5 21.1	21.5
300082 Moyocoanno	15.6	X	105.12383	122.35859	353.36654	9.82044	0.0672535	0.17919722	3.1158883	20	4 30.0	20.2
300083 2006 UO_{218}	15.4	X	106.51651	238.76337	199.21208	15.44065	0.1015400	0.17496270	3.1659623	20	3 23.1	19.9
300084 2006 UF_{223}	15.2	X	85.89577	246.20815	232.18727	12.55062	0.2632108	0.17433133	3.1736017	20	5 11.1	19.6
300085 2006 UF_{226}	15.5	X	145.94888	90.10558	5.16544	15.27324	0.0675658	0.18698617	3.0287474	20	5 20.6	20.3
300086 2006 UK_{227}	16.2	X	217.70110	327.98468	92.19191	3.15714	0.1252102	0.19307756	2.9647051	20	6 25.5	20.8
300087 2006 UX_{228}	16.1	X	204.35915	243.33204	196.82399	9.91245	0.2309482	0.18861660	3.0112682	20	6 30.6	21.4
300088 2006 UB_{232}	15.9	X	315.64441	240.36782	48.50084	2.54179	0.0811354	0.18424334	3.0587326	20	5 14.8	19.8
300089 2006 UV_{232}	15.5	X	292.49938	21.73421	273.32841	8.46541	0.0660739	0.18512657	3.0489961	20	4 19.9	19.9
300090 2006 UQ_{234}	15.7	X	169.82534	122.93742	284.39410	3.80618	0.1649534	0.17286443	3.1915302	20	4 24.0	20.9
300091 2006 UT_{237}	16.0	X	134.18317	225.13209	200.75760	10.85009	0.1036286	0.17756335	3.1349732	20	4 9.6	20.8
300092 2006 UB_{239}	16.0	X	79.03793	139.46935	17.53156	7.14343	0.0815628	0.18303164	3.0722173	20	5 23.7	20.3
300093 2006 UE_{244}	16.6	X	204.96788	172.97076	219.38086	1.03499	0.0875029	0.18661032	3.0328128	20	5 10.8	21.3
300094 2006 UC_{248}	16.0	X	227.91521	75.29321	217.60939	11.39226	0.2102129	0.17544149	3.1601995	20	1 28.3	21.6
300095 2006 UL_{252}	16.9	X	140.18022	70.28180	47.08642	2.21049	0.1657940	0.18495062	3.0509296	20	6 22.4	21.7
300096 2006 UB_{255}	15.9	X	208.77866	317.26547	59.81428	2.90901	0.1505450	0.18278956	3.0749292	20	4 24.1	20.8
300097 2006 UM_{256}	16.8	X	288.98332	147.04844	193.33249	5.86386	0.0938279	0.19525988	2.9425738	20	6 12.4	20.7
300098 2006 UB_{260}	16.1	X	56.05041	277.10810	204.20438	3.37568	0.1191606	0.17065140	3.2190631	20	3 14.1	20.1
300099 2006 UU_{264}	16.0	X	263.17029	66.56186	199.73844	10.16948	0.1104832	0.17683982	3.1435184	20	2 5.8	20.9
300100 2006 UY_{264}	16.3	X	110.53768	66.35166	21.88648	1.13331	0.0954926	0.17780127	3.1321758	20	4 9.8	20.9
300101 2006 UV_{265}	15.8	X	189.72323	65.11560	303.19744	3.61106	0.1598821	0.17890332	3.1192998	20	3 25.8	20.9
300102 2006 UU_{269}	18.0	X	144.05566	116.07204	231.36956	18.87783	0.1041696	0.38240052	1.8798523	20	—	—
300103 2006 UW_{269}	15.5	X	126.25020	86.57348	22.06732	10.60120	0.0406948	0.18150099	3.0894657	20	5 14.3	20.0
300104 2006 UP_{273}	16.0	X	129.98193	44.68521	37.76149	6.92415	0.1556371	0.17528127	3.1621250	20	4 30.2	21.0
300105 2006 UX_{279}	16.3	X	272.92743	220.25544	69.52546	2.29730	0.1538553	0.18034523	3.1026511	20	3 13.5	20.8
300106 2006 UV_{282}	15.8	X	219.52428	93.07146	229.22941	7.96611	0.0448084	0.17463898	3.1698735	20	3 1.7	20.7
300107 2006 UY_{285}	15.2	X	261.94758	88.83413	217.78288	8.99851	0.0460814	0.17906712	3.1173973	20	4 1.2	19.6
300108 2006 UO_{286}	16.1	X	314.35035	49.08369	222.93622	3.71483	0.0999846	0.18373963	3.0643203	20	4 18.1	20.1
300109 2006 UW_{321}	15.7	X	195.93287	254.13030	133.23561	19.47968	0.2973160	0.18319210	3.0704231	20	4 29.4	21.6
300110 2006 UX_{321}	15.5	X	169.21213	298.55502	108.16074	19.92620	0.2574364	0.18106972	3.0943694	20	5 4.6	21.3
300111 2006 UN_{329}	15.4	X	220.18525	348.71860	10.95112	13.14992	0.1286263	0.18112314	3.0937610	20	4 12.5	20.2
300112 2006 UL_{330}	16.1	X	317.74554	67.79337	159.51182	12.35256	0.1136788	0.17645527	3.1480838	20	2 25.4	20.2
300113 2006 UV_{331}	16.9	X	187.51508	224.58277	182.41221	8.88448	0.0373259	0.18885059	3.0087803	20	5 12.8	21.3
300114 2006 UL_{335}	15.3	X	197.04500	251.09091	121.19414	10.71175	0.1094332	0.17933830	3.1142539	20	4 12.8	20.3
300115 2006 UG_{337}	16.1	X	203.63540	254.96473	104.01464	15.54975	0.3333281	0.18076859	3.0978049	20	4 1.8	22.1
300116 2006 UO_{345}	15.7	X	333.43532	354.67688	244.70180	8.11619	0.0223572	0.17509389	3.1643806	20	4 10.1	20.2
300117 2006 UQ_{346}	16.8	X	167.46759	247.94833	180.22304	11.54889	0.3251043	0.18014428	3.1049580	20	5 23.1	22.6
300118 2006 UH_{359}	16.4	X	246.36380	160.55557	192.33605	9.20234	0.1039635	0.18752513	3.0229414	20	5 6.3	20.9
300119 2006 UK_{360}	16.1	X	256.04427	16.07904	331.41610	10.91213	0.1138182	0.18855157	3.0119605	20	5 3.2	20.7
300120 2006 VO_{2}	15.9	X	130.82801	80.32889	328.43260	3.88300	0.1805474	0.17232166	3.1982284	20	3 23.3	20.9
300121 2006 VN_{4}	15.6	X	202.94230	298.84921	47.76962	13.41318	0.2222510	0.17746434	3.1361392	20	3 19.1	21.2
300122 2006 VW_{7}	15.4	X	218.79603	123.87914	237.64717	12.33556	0.2602161	0.18326724	3.0695837	20	4 6.3	20.9
300123 2006 VE_{12}	15.5	X	78.33272	292.49079	225.07106	8.91603	0.0118444	0.18039716	3.1020556	20	5 15.3	19.8
300124 2006 VG_{14}	16.0	X	137.44116	79.86186	340.38213	8.60216	0.0792122	0.17497699	3.1657899	20	4 1.3	20.7
300125 2006 VS_{20}	16.2	X	188.73979	80.99961	314.43795	0.64559	0.1095589	0.18035705	3.1025156	20	4 27.5	21.1
300126 2006 VC_{25}	15.5	X	174.54291	349.97895	65.62886	11.66461	0.0277429	0.18066562	3.0989819	20	5 8.5	20.0
300127 2006 VF_{32}	16.1	X	339.55842	8.39931	194.78743	0.80884	0.1219073	0.17413997	3.1759262	20	2 25.9	20.1
300128 2006 VP_{32}	16.6	X	255.63024	300.80237	39.16278	0.92107	0.0583622	0.18601262	3.0393061	20	5 4.9	20.9
300129 2006 VZ_{37}	17.0	X	178.37973	154.11275	234.53235	4.00259	0.1900280	0.17852842	3.1236652	20	4 10.1	22.3
300130 2006 VH_{48}	16.8	X	220.91031	124.28983	207.50491	7.11033	0.1987434	0.17920763	3.1157675	20	3 8.4	22.1
300131 2006 VU_{50}	15.2	X	223.34885	299.50406	64.63443	19.01242	0.2206911	0.18164115	3.0878763	20	4 24.1	20.6
300132 2006 VY_{50}	15.5	X	227.58877	65.14513	256.55983	25.64190	0.2590317	0.17543904	3.1602289	20	2 18.5	21.5
300133 2006 VF_{51}	16.6	X	196.64230	60.05620	1.09524	0.73211	0.2464549	0.18371823	3.0645583	20	6 2.1	21.8
300134 2006 VJ_{52}	15.4	X	213.84930	78.26716	254.05332	15.82049	0.1415507	0.17540195	3.1606745	20	2 28.7	20.9
300135 2006 VX_{54}	16.5	X	204.81189	343.23185	76.17096	1.84200	0.1436646	0.18678372	3.0309356	20	6 10.5	21.1
300136 2006 VY_{55}	15.7	X	162.18130	359.21460	63.70778	11.95831	0.2146019	0.17881708	3.1203027	20	5 10.3	21.1
300137 2006 VG_{56}	16.6	X	184.84092	235.30634	142.90361	1.61883	0.1809435	0.17725114	3.1386533	20	4 4.7	21.8
300138 2006 VS_{58}	16.0	X	159.05907	348.80929	102.68117	4.74548	0.0645873	0.18296992	3.0729082	20	6 4.6	20.6
300139 2006 VU_{58}	16.1	X	11.47069	219.25457	350.25072	2.87625	0.0501836	0.18407460	3.0606016	20	4 23.9	20.0
300140 2006 VB_{61}	16.2	X	232.05617	136.45280	258.36922	0.97384	0.0835889	0.18763547	3.0217562	20	6 12.8	20.6
300141 2006 VV_{61}	16.2	X	166.27624	5.93298	15.09061	1.02508	0.2104058	0.17381754	3.1798526	20	3 24.4	21.5
300142 2006 VW_{61}	15.6	X	334.09580	220.93759	58.33647	10.35630	0.0251088	0.18422743	3.0589088	20	6 2.3	19.7
300143 2006 VY_{61}	16.0	X	216.86651	325.14448	27.97557	0.80934	0.1880672	0.17941459	3.1133710	20	4 1.1	21.0
300144 2006 VW_{62}	16.5	X	143.23198	57.77942	46.09061	0.04416	0.1411571	0.18021790	3.1041123	20	6 7.1	21.4
300145 2006 VO_{63}	16.5	X	162.62498	7.17357	58.20170	2.73706	0.2363111	0.17843569	3.1247473	20	5 12.9	21.8
300146 2006 VJ_{67}	15.8	X	137.68830	190.84353	249.94437	5.45589	0.0640598	0.17592748	3.1543770	20	4 26.8	20.5
300147 2006 VE_{68}	16.4	X	186.37476	308.87093	70.40126	2.37449	0.1935894	0.17669833	3.1451963	20	4 7.6	21.7
300148 2006 VX_{73}	15.2	X	140.72710	209.12336	244.18345	10.88420	0.0805218	0.17832566	3.1260325	20	5 17.9	19.9
300149 2006 VU_{80}	16.2	X	249.39416	217.48709	106.50631	3.14726	0.1781660	0.18015730	3.1048084	20	3 28.5	21.1
300150 2006 VN_{81}	16.0	X	112.67727	250.83078	208.76780	4.59835	0.1843965	0.17255285	3.1953711	20	5 7.3	20.9
300151 2006 VR_{84}	15.6	X	170.41672	73.40233	7.70144	11.91495	0.1569146	0.18376644	3.0640223	20	6 2.9	20.8
300152 2006 VO_{85}	16.6	X	200.71351	37.76557	46.82590	4.90438	0.2114907	0.18917418	3.0053483	20	7 5.1	21.7
300153 2006 VP_{85}	16.2	X	151.46356	46.99077	34.02171	1.73635	0.1495442	0.18014710	3.1049256	20	5 18.3	21.2
300154 2006 VW_{89}	16.1	X	157.60812	343.12340	51.56129	5.53901	0.1365005	0.17272340	3.1932672	20	3 31.5	21.2
300155 2006 VZ_{91}	15.9	X	57.90447	125.64980	27.52398	9.54573	0.0281862	0.17680059	3.1439834	20	4 15.5	20.2
300156 2006 VP_{96}	16.0	X	163.97922	193.79340	224.72192	3.71044	0.1648246	0.17605187	3.1528909	20	5 3.5	21.1
300157 2006 VW_{96}	15.9	X	175.80526	150.07049	235.08134	4.24892	0.1816092	0.17380196	3.1800426	20	4 3.7	21.2
300158 2006 VB_{97}	16.9	X	212.29773	34.42685	5.43800	1.80743	0.1440712	0.18910497	3.0060815	20	5 24.2	21.6
300159 2006 VW_{121}	16.0	X	185.31198	58.43051	26.93833	10.52352	0.0859642	0.18882854	3.0090146	20	6 25.2	20.8
300160 2006 VV_{126}	15.3	X	229.23082	87.44895	250.38426	14.31790	0.1066738	0.17888494	3.1195134	20	3 23.9	20.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
300161 2006 VU_{131}	15.5	X	176.41620	137.64752	234.59583	11.22995	0.1142931	0.17324659	3.1868350	20	3 15.6	20.7
300162 2006 VG_{135}	15.7	X	153.46303	142.72391	252.96388	4.55877	0.0642089	0.17201035	3.2020861	20	3 19.7	20.6
300163 2006 VW_{139}	16.2	X	241.08476	280.75765	83.18777	3.24028	0.2013647	0.18528177	3.0472933	20	5 4.5	21.0
300164 2006 VE_{140}	16.7	X	175.31650	209.82326	185.01547	1.30193	0.1876941	0.17672821	3.1448417	20	4 16.0	21.9
300165 2006 VW_{140}	16.6	X	181.81853	236.71141	193.11729	1.96440	0.1856184	0.18205689	3.0831736	20	6 1.9	21.7
300166 2006 VQ_{142}	15.5	X	231.37518	263.91320	77.68823	6.37305	0.1451857	0.18051332	3.1007247	20	4 5.5	20.4
300167 2006 VM_{143}	15.6	X	274.90259	5.20488	239.36872	4.50714	0.0623408	0.17121992	3.2119333	20	1 31.6	20.4
300168 2006 VA_{144}	16.0	X	228.94066	15.31257	354.93270	11.13647	0.2293357	0.18720781	3.0263564	20	4 24.8	21.2
300169 2006 VC_{146}	15.5	X	237.52961	39.47585	338.88688	9.68977	0.1651813	0.18922670	3.0047921	20	5 18.1	20.4
300170 2006 VB_{151}	15.2	X	84.89127	184.91487	268.22578	10.91021	0.0903280	0.16982816	3.2294576	20	3 9.8	19.9
300171 2006 VS_{151}	15.2	X	218.16052	292.84326	34.99213	20.27589	0.1700286	0.17603254	3.1531218	20	3 14.6	20.6
300172 2006 VS_{168}	16.1	X	279.74263	256.97922	69.10208	14.69600	0.1548291	0.18908478	3.0062955	20	5 6.5	20.4
300173 2006 WT	17.1	X	96.54475	154.28558	233.26538	20.90573	0.0455982	0.37726725	1.8968660	20	—	—
300174 2006 WM_{11}	14.8	X	195.68796	91.86505	259.94649	20.61883	0.1178094	0.17202677	3.2018823	20	3 3.8	20.3
300175 2006 WV_{20}	15.8	X	87.09767	266.50453	210.64223	6.83416	0.1043525	0.17140749	3.2095897	20	4 18.8	20.3
300176 2006 WG_{26}	15.5	X	161.18845	138.02039	257.20036	8.46079	0.0717104	0.17318365	3.1876072	20	3 26.1	20.4
300177 2006 WD_{33}	15.9	X	177.40386	271.80212	76.44914	10.04465	0.0894413	0.16937453	3.2352212	20	2 25.6	21.0
300178 2006 WV_{36}	15.7	X	237.82179	205.96789	89.07404	9.68887	0.0638259	0.16981932	3.2295696	20	2 24.4	20.6
300179 2006 WY_{36}	15.9	X	115.80743	346.46743	82.68646	12.92808	0.0643573	0.17070459	3.2183943	20	3 27.2	20.8
300180 2006 WX_{42}	15.9	X	123.35689	237.21887	211.53656	10.73622	0.1176648	0.17422512	3.1748914	20	4 27.8	20.7
300181 2006 WK_{45}	16.1	X	97.81725	259.00097	199.28638	8.87846	0.0549532	0.17555440	3.1588444	20	4 1.0	20.4
300182 2006 WJ_{53}	15.5	X	198.31384	235.31932	146.53780	17.22718	0.2336380	0.18073232	3.0982194	20	4 23.8	21.1
300183 2006 WZ_{58}	15.5	X	217.56916	280.32023	34.03581	11.72078	0.1496981	0.17108986	3.2135609	20	2 24.2	20.8
300184 2006 WK_{61}	15.5	X	164.51653	324.14390	90.98958	11.65762	0.1499743	0.17715133	3.1398321	20	5 3.6	20.7
300185 2006 WB_{62}	16.2	X	173.03086	235.96729	156.61303	16.94514	0.2503163	0.17741800	3.1366852	20	4 16.7	21.9
300186 2006 WG_{64}	15.8	X	250.01162	306.87690	37.18931	10.77088	0.0518243	0.18175690	3.0865651	20	5 3.6	20.1
300187 2006 WK_{65}	16.2	X	225.01543	344.10679	34.59118	11.64770	0.1399844	0.18446443	3.0562881	20	5 9.8	21.1
300188 2006 WD_{70}	16.0	X	72.85148	112.88918	10.40678	4.40989	0.1358824	0.17472830	3.1687931	20	4 11.8	20.1
300189 2006 WU_{71}	16.5	X	64.26549	191.91688	14.00164	2.06361	0.0103921	0.18823006	3.0153893	20	6 28.2	20.7
300190 2006 WV_{75}	15.5	X	256.88241	221.89342	68.74129	6.23794	0.1495296	0.17405931	3.1769073	20	3 1.0	20.5
300191 2006 WQ_{86}	16.0	X	181.86569	137.56882	255.91031	8.45736	0.2160495	0.17767042	3.1337136	20	4 17.4	21.5
300192 2006 WW_{87}	15.8	X	219.67034	239.86142	84.17019	11.16210	0.2269166	0.17608698	3.1524719	20	3 4.5	21.4
300193 2006 WH_{92}	16.1	X	213.63717	183.22798	163.61657	1.73337	0.1241877	0.17696423	3.1420450	20	3 24.7	21.0
300194 2006 WC_{95}	15.8	X	198.14295	128.25890	225.98579	10.19167	0.1531310	0.17594873	3.1541230	20	3 15.3	21.1
300195 2006 WO_{96}	15.2	X	263.62040	241.79036	57.71141	10.18988	0.0526715	0.17524605	3.1625488	20	3 31.2	19.9
300196 2006 WZ_{96}	16.8	X	144.83503	188.35481	246.87085	0.81003	0.1965551	0.17651569	3.1473654	20	5 8.2	22.0
300197 2006 WX_{99}	15.7	X	223.47794	295.48601	84.36394	9.32452	0.1386499	0.18732711	3.0250714	20	5 13.3	20.5
300198 2006 WH_{100}	16.3	X	184.93813	280.83118	151.41678	6.01494	0.1858696	0.18592102	3.0403044	20	6 7.9	21.5
300199 2006 WK_{100}	15.9	X	221.18965	251.31126	111.23188	6.96356	0.1736820	0.18396915	3.0617710	20	4 19.4	21.0
300200 2006 WS_{100}	15.5	X	186.26581	114.56129	253.12477	8.04938	0.0995684	0.17540159	3.1606789	20	3 19.7	20.6
300201 2006 WG_{101}	16.0	X	243.15458	117.99861	260.88379	9.46607	0.1324627	0.18853247	3.0121640	20	5 30.6	20.7
300202 2006 WE_{109}	16.3	X	220.55857	170.60404	189.32458	0.33216	0.1763248	0.17937382	3.1138428	20	4 12.6	21.3
300203 2006 WE_{111}	15.9	X	225.98472	121.62350	226.87288	4.20522	0.1704593	0.17883113	3.1201392	20	4 3.2	20.9
300204 2006 WR_{117}	15.6	X	209.69406	305.16504	70.97326	11.83777	0.2001456	0.18040781	3.1019336	20	4 25.3	20.9
300205 2006 WH_{125}	16.8	X	76.24350	21.85920	113.50701	0.72262	0.1341204	0.17547218	3.1598311	20	5 2.2	20.9
300206 2006 WW_{126}	16.2	X	270.23234	141.45967	190.71733	8.24313	0.2595200	0.18884192	3.0088725	20	4 17.7	20.9
300207 2006 WB_{137}	15.5	X	226.44107	267.22782	73.35199	13.39390	0.0384100	0.18044264	3.1015344	20	4 10.4	20.2
300208 2006 WF_{139}	15.9	X	187.87618	262.76631	84.00519	6.39076	0.2009075	0.17185980	3.2039558	20	3 4.9	21.4
300209 2006 WT_{151}	15.4	X	268.72224	260.22192	51.36961	16.88227	0.2586457	0.18339067	3.0682063	20	3 30.1	20.5
300210 2006 WB_{152}	16.6	X	23.29243	291.31537	231.54343	4.34045	0.1134058	0.16946442	3.2340770	20	3 14.6	20.6
300211 2006 WP_{152}	15.8	X	183.87051	249.17540	141.37048	7.12720	0.2563345	0.17905185	3.1175745	20	4 20.7	21.4
300212 2006 WZ_{153}	16.7	X	141.28722	17.85696	47.68284	0.51963	0.1785946	0.17728356	3.1382708	20	4 22.5	21.6
300213 2006 WC_{156}	15.4	X	269.87689	233.98032	79.28837	13.23613	0.0447522	0.18042217	3.1017690	20	4 26.0	19.9
300214 2006 WH_{174}	16.3	X	149.48114	349.65301	98.62422	2.61007	0.1445389	0.17829303	3.1264139	20	5 25.6	21.2
300215 2006 WC_{180}	16.3	X	231.62739	268.54546	81.07420	5.92307	0.2277536	0.18223731	3.0811383	20	4 9.5	21.6
300216 2006 WK_{180}	16.2	X	275.11616	230.23446	87.51667	3.56717	0.0962308	0.18158833	3.0884750	20	4 26.8	20.6
300217 2006 WK_{182}	15.6	X	216.28773	280.04362	73.47699	11.45560	0.1065909	0.17663734	3.1459203	20	4 9.9	20.6
300218 2006 WG_{187}	15.6	X	234.96106	263.94551	99.50109	11.45593	0.1107937	0.18345719	3.0674646	20	5 9.0	20.4
300219 2006 WN_{187}	15.4	X	240.20484	241.75610	113.86361	9.01797	0.1414393	0.18382424	3.0633800	20	5 1.7	20.2
300220 2006 WT_{191}	15.7	X	244.17637	260.82194	72.19511	6.28512	0.1810643	0.18069794	3.0986124	20	4 4.3	20.7
300221 Brucebills	15.7	X	148.84247	121.39540	285.11095	10.36694	0.1725916	0.17784351	3.1316799	20	4 1.1	20.9
300222 2006 XF_{6}	15.8	X	225.49739	289.49177	98.95885	11.43325	0.2479010	0.18602243	3.0391992	20	5 19.2	21.1
300223 2006 XK_{32}	16.1	X	151.47666	22.75260	40.25784	2.23938	0.0791664	0.17329519	3.1862393	20	4 22.8	20.8
300224 2006 XJ_{43}	15.3	X	214.40900	94.42023	254.75760	8.24814	0.0871416	0.17458333	3.1705470	20	3 25.9	20.3
300225 2006 XN_{44}	15.4	X	166.54660	113.43783	274.56953	12.04664	0.0721173	0.17012770	3.2256657	20	3 20.9	20.6
300226 Francocanepari	15.8	X	171.54029	111.16409	310.05717	10.75038	0.2322863	0.17645661	3.1480679	20	5 11.4	21.4
300227 2006 XA_{52}	15.1	X	183.46644	323.06038	78.75947	18.95474	0.1867012	0.17793921	3.1305569	20	5 6.6	20.5
300228 2006 XN_{54}	16.3	X	224.12849	101.81276	293.49473	7.49982	0.2745803	0.18623138	3.0369255	20	5 20.7	21.7
300229 2006 XF_{73}	16.1	X	150.39503	62.86694	348.00372	4.37846	0.1342557	0.17135263	3.2102747	20	4 9.5	21.2
300230 2006 YZ	15.5	X	240.20029	55.43036	266.89641	4.94401	0.1370489	0.17345948	3.1842270	20	3 17.6	20.6
300231 2006 YV_{3}	16.4	X	159.47769	203.41662	209.50973	4.28768	0.1682116	0.17585195	3.1552801	20	4 23.2	21.4
300232 2006 YL_{5}	16.0	X	163.90599	90.43019	298.16832	3.40609	0.1642799	0.17246124	3.1965025	20	3 27.7	21.3
300233 2006 YX_{8}	15.5	X	192.38790	302.14096	87.96566	11.22279	0.2423171	0.17739061	3.1370080	20	4 27.9	21.1
300234 2006 YH_{16}	16.7	X	225.43306	78.54579	297.53350	4.01308	0.2925285	0.18477866	3.0528222	20	4 27.8	22.2
300235 2006 YT_{17}	15.1	X	113.81280	218.19363	240.91273	14.68535	0.0826421	0.17873203	3.1212924	20	4 23.3	19.7
300236 2006 YM_{39}	15.7	X	207.85826	246.47670	96.27618	11.01128	0.2271584	0.17710852	3.1403381	20	3 17.1	21.3
300237 2006 YD_{45}	15.1	X	169.02629	325.27762	110.92160	16.54853	0.2126248	0.17786342	3.1314463	20	6 2.2	20.6
300238 2007 CM_{16}	16.2	X	76.44173	208.81157	294.63422	2.94868	0.1030146	0.16821739	3.2500406	20	5 7.1	20.7
300239 2007 CO_{25}	17.3	X	355.16942	81.41751	359.47288	19.93550	0.1004857	0.35845725	1.9626573	20	—	—
300240 2007 CP_{26}	17.6	X	345.04483	75.89053	3.00861	20.87882	0.1325398	0.35534844	1.9740877	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
300241 2007 CQ_{60}	17.0	X	257.99619	163.91340	354.21685	18.38482	0.0699113	0.35080747	1.9910867	20	—	—
300242 2007 DZ_{70}	14.1	X	344.96531	85.81500	157.62628	9.36317	0.1646708	0.08288228	5.2098866	20	5 1.5	20.3
300243 2007 DE_{117}	17.5	X	214.47031	188.64127	19.53534	20.19844	0.0416505	0.35228413	1.9855188	20	—	—
300244 2007 EY_{8}	14.0	X	355.23755	68.90901	175.19672	18.50895	0.1091367	0.08465183	5.1370267	20	5 20.2	20.5
300245 2007 EC_{20}	18.3	X	291.71240	122.76225	170.93325	4.06440	0.1854084	0.30801466	2.1714764	20	3 24.6	20.7
300246 2007 EE_{96}	18.1	X	308.75153	58.72410	184.28348	2.99357	0.1500839	0.29601148	2.2297885	20	2 10.9	20.9
300247 2007 EX_{111}	18.0	X	344.81768	211.85125	28.57858	5.66892	0.1253116	0.30387952	2.1911314	20	4 12.1	19.5
300248 2007 ED_{165}	17.7	X	41.71954	279.64862	293.74752	1.82452	0.1879093	0.31108306	2.1571738	20	7 9.1	19.5
300249 2007 EE_{218}	13.9	X	305.86808	97.69911	182.83805	8.48620	0.0556202	0.08165280	5.2620544	20	4 29.8	20.8
300250 2007 EF_{222}	13.0	X	279.04079	324.44032	1.86302	8.39524	0.0392228	0.08472840	5.1339311	20	5 18.7	19.9
300251 2007 FX_{26}	18.6	X	342.11437	86.84038	186.43939	1.62888	0.0714459	0.31146674	2.1554019	20	6 5.1	20.4
300252 2007 FN_{32}	17.8	X	334.40064	208.54354	40.98378	5.85530	0.1380922	0.30126076	2.2038110	20	4 6.1	19.7
300253 2007 GP_{7}	18.5	X	8.22667	45.77634	191.79836	5.02277	0.0812248	0.30926401	2.1656244	20	5 27.9	20.4
300254 2007 GH_{36}	18.4	X	267.85083	191.01435	108.38830	3.55794	0.1414293	0.29659435	2.2268663	20	3 11.7	21.5
300255 2007 GT_{47}	18.2	X	345.16698	57.39232	198.27376	1.93917	0.1394055	0.30254387	2.1975755	20	5 7.1	19.8
300256 2007 GV_{60}	17.7	X	290.09494	332.41806	279.63841	2.25698	0.2172763	0.29126858	2.2539293	20	1 23.9	20.7
300257 2007 GV_{75}	17.5	X	296.26311	53.85828	204.29346	7.86804	0.1264337	0.29266413	2.2467585	20	2 17.3	20.5
300258 2007 HT_{4}	17.7	X	204.05099	146.47833	152.94333	3.61163	0.2342071	0.27880193	2.3206280	20	1 10.3	21.7
300259 2007 HJ_{16}	17.7	X	246.05662	315.96111	310.81038	1.32623	0.2198565	0.28290429	2.2981394	20	1 4.0	21.3
300260 2007 HJ_{24}	17.7	X	237.86708	279.32230	61.24721	8.01206	0.0531759	0.29873031	2.2162387	20	4 11.9	20.5
300261 2007 HS_{25}	17.5	X	234.71036	241.77161	42.40394	3.41194	0.1693602	0.28532132	2.2851422	20	1 17.5	21.1
300262 2007 HQ_{31}	18.3	X	6.80128	216.90794	20.18343	3.60179	0.0949299	0.30583432	2.1817848	20	5 22.6	20.0
300263 2007 HS_{32}	17.7	X	287.05519	240.98349	9.40152	4.98846	0.1368519	0.29128574	2.2538408	20	1 29.9	20.8
300264 2007 HO_{35}	17.4	X	336.93995	45.64659	210.08941	6.84273	0.1603902	0.30001359	2.2099143	20	4 15.9	19.1
300265 2007 HF_{81}	18.0	X	258.64514	311.68237	34.75358	2.28984	0.1755881	0.30458376	2.1877527	20	4 27.9	21.0
300266 2007 HW_{88}	17.7	X	188.43365	129.64321	191.89536	5.54797	0.1280295	0.28261218	2.2997227	20	1 18.5	21.2
300267 2007 JR_{2}	17.8	X	314.02624	189.16118	63.42553	1.63024	0.1896946	0.29489729	2.2354015	20	2 27.2	20.3
300268 2007 JK_{5}	17.4	X	219.53679	334.13288	35.31264	8.62684	0.2024345	0.30287887	2.1959548	20	4 17.9	20.8
300269 2007 JE_{11}	17.2	X	209.70123	22.35174	233.15461	5.17865	0.1148209	0.27447628	2.3449460	20	—	—
300270 2007 JZ_{16}	17.5	X	227.67985	228.19600	73.17947	7.32822	0.1379596	0.28514091	2.2861060	20	2 3.6	21.0
300271 2007 JO_{26}	17.5	X	275.93060	23.85646	201.39428	7.69086	0.1084319	0.28221918	2.3018571	20	—	—
300272 2007 JK_{28}	17.9	X	259.80634	87.45292	219.40340	4.81179	0.1377842	0.29390348	2.2404378	20	3 9.6	21.1
300273 2007 JJ_{32}	17.5	X	195.19235	73.25788	187.13430	2.77327	0.2153989	0.27091892	2.3654285	20	—	—
300274 2007 JB_{40}	17.4	X	179.68770	121.17011	199.22637	6.33947	0.2494097	0.27522974	2.3406644	20	1 16.5	21.4
300275 2007 KR_{6}	18.3	X	277.69364	19.43520	216.76929	1.84950	0.1767067	0.28480366	2.2879103	20	—	—
300276 2007 KG_{8}	16.9	X	94.57183	110.14454	206.75504	22.47860	0.2773170	0.25634592	2.4542480	20	—	—
300277 2007 LR	17.3	X	155.43660	264.75977	105.03606	22.23545	0.2686322	0.27937485	2.3174543	20	3 5.8	21.5
300278 2007 LA_{21}	17.7	X	4.79007	45.93632	167.41020	4.67390	0.0795629	0.29907586	2.2145312	20	4 12.7	19.6
300279 2007 LU_{29}	16.7	X	141.63434	177.50729	132.49598	7.35193	0.1275842	0.26183729	2.4198125	20	—	—
300280 2007 MU_{2}	16.7	X	146.69915	215.19545	123.71723	7.46646	0.1233243	0.26801759	2.3824686	20	—	—
300281 2007 ME_{5}	16.9	X	151.75304	160.76132	200.77563	11.52696	0.3133929	0.27489991	2.3425363	20	2 15.2	21.0
300282 2007 MF_{11}	16.7	X	125.52162	284.72958	117.41515	7.20872	0.1128940	0.27519694	2.3408504	20	2 24.4	19.7
300283 2007 ML_{23}	17.6	X	157.15535	110.05690	196.67821	0.68462	0.1893215	0.26425676	2.4050198	20	—	—
300284 2007 NX_{2}	17.5	X	182.63215	230.53633	82.51053	3.72511	0.2209724	0.27158715	2.3615469	20	1 10.5	21.4
300285 2007 OU_{3}	16.7	X	177.33574	83.82197	221.53667	7.55163	0.2325690	0.26510816	2.3998678	20	—	—
300286 2007 OV_{4}	16.6	X	79.45398	271.52159	99.03403	7.55589	0.2330629	0.25444746	2.4664405	20	—	—
300287 2007 OA_{5}	16.2	X	124.19463	275.80839	21.50080	6.38525	0.1326671	0.25353550	2.4723514	20	—	—
300288 2007 OX_{5}	17.1	X	102.10417	260.30704	96.64768	7.32055	0.2168118	0.25698072	2.4502046	20	—	—
300289 2007 OM_{10}	17.3	X	52.17301	279.62884	159.80784	3.35684	0.0982485	0.26527059	2.3988881	20	—	—
300290 2007 PL_{1}	16.7	X	123.54605	2.10762	258.46648	4.79371	0.0855723	0.24414373	2.5353563	20	12 3.2	20.4
300291 2007 PN_{3}	17.3	X	131.37788	261.38407	100.57280	3.07809	0.2035220	0.26472775	2.4021663	20	1 21.9	20.7
300292 2007 PK_{6}	16.8	X	180.77338	352.14281	305.40346	5.98413	0.1085973	0.26498031	2.4006397	20	—	—
300293 2007 PN_{6}	16.6	X	110.57572	213.16873	141.25558	11.25837	0.2463107	0.25848079	2.4407158	20	—	—
300294 2007 PZ_{7}	15.6	X	333.04665	230.85056	114.95699	35.70462	0.3074556	0.22611213	2.6684156	20	8 29.1	18.0
300295 2007 PW_{8}	17.2	X	149.76167	71.29671	241.24297	3.54044	0.2068642	0.26122732	2.4235779	20	—	—
300296 2007 PD_{10}	17.2	X	107.07370	258.47504	120.37028	3.03915	0.2124519	0.26177253	2.4202116	20	1 15.6	20.0
300297 2007 PG_{10}	16.5	X	132.77600	193.72694	145.35614	7.39104	0.1451625	0.26164072	2.4210244	20	—	—
300298 2007 PV_{11}	16.9	X	149.12572	198.17834	94.52123	4.49273	0.1774580	0.25783451	2.4447926	20	—	—
300299 2007 PB_{12}	16.4	X	111.50594	197.05517	110.26696	6.34974	0.1339441	0.25122136	2.4875110	20	—	—
300300 2007 PL_{12}	17.1	X	81.92185	17.66346	0.61021	1.02184	0.1888828	0.25753515	2.4466868	20	—	—
300301 2007 PH_{15}	16.8	X	148.52817	207.78727	105.82282	2.37012	0.1967109	0.26059845	2.4274754	20	—	—
300302 2007 PC_{16}	17.0	X	189.37944	219.15700	71.86564	3.50042	0.1928964	0.26586756	2.3952958	20	—	—
300303 2007 PM_{18}	17.0	X	133.82444	37.47945	314.86446	4.81588	0.1775572	0.26413977	2.4057298	20	1 9.4	20.3
300304 2007 PY_{18}	16.8	X	183.52024	158.83111	136.32916	6.30252	0.1952633	0.26613186	2.3937097	20	—	—
300305 2007 PE_{19}	17.4	X	185.34191	60.24779	256.62670	1.11555	0.2010556	0.27010239	2.3701933	20	1 16.2	21.2
300306 2007 PA_{20}	17.3	X	147.32090	22.02435	302.24456	1.26436	0.1838650	0.26196263	2.4190406	20	—	—
300307 2007 PF_{21}	16.4	X	112.91295	9.06014	341.26994	6.56997	0.1565481	0.25688543	2.4508105	20	—	—
300308 2007 PP_{22}	16.6	X	120.56812	328.03746	1.39813	6.65834	0.2346500	0.25658258	2.4527386	20	—	—
300309 2007 PQ_{23}	16.9	X	166.11911	102.05966	272.09317	5.58658	0.1378112	0.27447196	2.3449706	20	3 2.4	20.4
300310 2007 PL_{26}	16.4	X	97.72424	351.33089	9.86968	13.10772	0.2119378	0.25791288	2.4442973	20	—	—
300311 2007 PE_{27}	17.4	X	74.70346	163.33745	210.42359	5.82815	0.1329257	0.25226396	2.4806524	20	—	—
300312 2007 PR_{28}	16.5	X	335.40342	288.17919	221.89877	5.87189	0.1429864	0.25910251	2.4368098	20	—	—
300313 2007 PA_{31}	16.4	X	147.42080	142.12751	164.59831	5.32911	0.1219251	0.26127056	2.4233105	20	—	—
300314 2007 PL_{32}	17.1	X	108.79493	244.60927	110.63527	2.46261	0.2046272	0.25762624	2.4461100	20	—	—
300315 2007 PE_{35}	17.2	X	170.94256	358.97096	0.75933	1.02560	0.1987019	0.27158433	2.3615632	20	2 25.0	20.9
300316 2007 PA_{36}	17.1	X	170.62249	43.11572	281.65595	5.80083	0.1305245	0.26686935	2.3892976	20	1 7.9	20.6
300317 2007 PT_{36}	16.8	X	214.73491	358.97295	262.53863	3.81169	0.2109482	0.26819596	2.3814121	20	—	—
300318 2007 PN_{44}	17.0	X	77.77409	27.57187	5.52994	3.86274	0.2159183	0.25720271	2.4487946	20	—	—
300319 2007 PE_{45}	17.1	X	193.03766	152.60308	144.26132	4.85028	0.1018760	0.26514080	2.3996709	20	—	—
300320 2007 PW_{49}	17.0	X	209.24108	70.38169	160.41580	11.16747	0.2339886	0.25842768	2.4410501	20	—	—

ELEMENTS AND OPPOSITION DATES IN 2020

ECLIPTIC AND EQUINOX 2000.0, EPOCH 2020 MAY 31.0 TT

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
300321 2007 PK_{50}	17.7	X	114.82576	38.20153	338.20064	2.00828	0.2171041	0.26262974	2.4149424	20	1 23.4	20.6
300322 2007 QH_{1}	17.0	X	197.99534	120.57136	166.84845	6.24892	0.0851424	0.26677206	2.3898785	20	—	—
300323 2007 QW_{2}	16.1	X	117.52912	91.04594	222.92533	9.80656	0.2814977	0.25556414	2.4592505	20	—	—
300324 2007 QZ_{2}	16.6	X	129.33661	327.33244	42.09236	6.99489	0.2038817	0.26305673	2.4123284	20	1 31.6	20.1
300325 2007 QL_{4}	16.7	X	117.09876	163.73862	205.45380	9.24304	0.2888183	0.26143249	2.4223098	20	1 24.0	20.2
300326 2007 QX_{5}	16.8	X	199.84254	102.39196	191.75245	4.47687	0.1022574	0.26779077	2.3838137	20	—	—
300327 2007 QL_{6}	17.3	X	97.06125	124.90978	251.39463	1.16646	0.2154744	0.25836951	2.4414165	20	—	—
300328 2007 QT_{6}	17.2	X	117.36910	9.18283	20.84198	2.53011	0.2168164	0.26425485	2.4050313	20	2 13.5	20.3
300329 2007 QF_{9}	17.7	X	64.31048	128.13347	173.59818	5.49244	0.2928673	0.24182652	2.5515266	20	12 12.0	21.9
300330 2007 RG_{7}	17.3	X	80.96901	226.22958	177.14581	7.25894	0.2461636	0.25596769	2.4566651	20	1 13.9	19.7
300331 2007 RP_{7}	17.4	X	180.80424	38.51076	274.79679	2.79630	0.1701563	0.26615698	2.3935590	20	1 6.7	21.1
300332 2007 RL_{11}	17.2	X	40.36436	344.70460	9.37917	2.75095	0.3253206	0.23913181	2.5706590	20	—	—
300333 2007 RG_{15}	16.3	X	192.91650	316.29589	187.92049	13.94863	0.0626913	0.22624370	2.6673810	20	9 20.5	20.1
300334 Antonalexander	16.3	X	169.58728	8.18839	277.44723	8.24085	0.2406164	0.26169055	2.4207170	20	—	—
300335 2007 RK_{20}	17.0	X	135.80300	133.93710	195.26605	11.41217	0.1972405	0.25796473	2.4439698	20	—	—
300336 2007 RN_{23}	16.7	X	142.07027	85.57309	227.79021	5.19485	0.1275459	0.25702241	2.4499397	20	—	—
300337 2007 RZ_{27}	16.3	X	140.76974	183.85614	111.75544	9.30114	0.1240602	0.25459114	2.4655124	20	—	—
300338 2007 RJ_{31}	16.3	X	177.84039	55.83202	237.46281	6.16782	0.1511124	0.26220056	2.4175770	20	—	—
300339 2007 RW_{31}	16.0	X	143.45730	279.11153	53.90690	8.35829	0.1774631	0.26125751	2.4233912	20	—	—
300340 2007 RF_{32}	16.2	X	120.59146	318.49735	9.14999	14.83632	0.1632970	0.25534373	2.4606655	20	—	—
300341 2007 RT_{34}	17.3	X	92.58831	173.57060	210.34779	1.62432	0.1890895	0.25818848	2.4425576	20	—	—
300342 2007 RZ_{37}	16.9	X	38.78472	186.30416	135.20245	3.46888	0.1925318	0.23510221	2.5999495	20	11 27.5	20.3
300343 2007 RF_{41}	16.8	X	146.40197	40.09568	11.69643	6.74236	0.0901028	0.27553330	2.3389449	20	3 29.0	20.0
300344 2007 RJ_{42}	16.8	X	126.72458	343.60450	285.53326	5.40726	0.1741174	0.24529044	2.5274484	20	12 18.1	20.8
300345 2007 RG_{45}	16.5	X	345.67560	202.34162	299.65419	5.09602	0.0596930	0.25975616	2.4327201	20	—	—
300346 2007 RR_{47}	18.0	X	47.88416	12.70189	19.66115	1.44830	0.1657405	0.24709051	2.5151584	20	—	—
300347 2007 RV_{48}	17.3	X	348.49269	178.53176	191.30577	1.90306	0.0593376	0.23051176	2.6343532	20	10 29.7	20.3
300348 2007 RP_{49}	16.6	X	110.52306	24.78050	194.16616	6.06953	0.0718030	0.22525664	2.6751675	20	9 23.0	20.4
300349 2007 RR_{50}	16.6	X	328.00695	190.61428	215.86863	8.87501	0.0817429	0.23422029	2.6064719	20	11 18.9	19.5
300350 2007 RB_{52}	16.9	X	356.03193	54.22943	344.86309	14.58070	0.1418104	0.23764329	2.5813824	20	—	—
300351 2007 RH_{52}	17.2	X	21.91191	154.36249	211.12761	8.35944	0.1733677	0.23781231	2.5801592	20	12 28.5	20.6
300352 2007 RH_{55}	17.3	X	329.76953	127.80855	301.83719	3.87579	0.1325126	0.23784721	2.5799067	20	12 27.2	19.8
300353 2007 RG_{57}	16.5	X	21.38147	357.25229	337.76596	8.21695	0.0921814	0.23199904	2.6230823	20	11 1.1	19.9
300354 2007 RV_{57}	17.5	X	348.07184	202.41745	186.88355	1.84452	0.1373329	0.23057369	2.6338814	20	12 1.5	20.3
300355 2007 RP_{65}	18.0	X	139.56944	308.85295	339.11391	0.58304	0.1781169	0.25386948	2.4701826	20	—	—
300356 2007 RU_{68}	17.2	X	337.08633	45.84131	91.16613	2.54656	0.1404777	0.25666721	2.4521995	20	—	—
300357 2007 RM_{69}	17.4	X	76.51884	301.95719	98.69271	2.47878	0.1769418	0.25694957	2.4504026	20	—	—
300358 2007 RL_{76}	17.6	X	128.83584	136.72144	173.14522	1.60608	0.1932790	0.25484380	2.4638825	20	—	—
300359 2007 RY_{76}	17.5	X	97.65668	197.75138	166.77037	5.96144	0.1134724	0.25670024	2.4519891	20	—	—
300360 2007 RV_{86}	17.1	X	85.09629	49.86854	357.22023	3.69693	0.1452604	0.25907744	2.4369670	20	1 11.4	19.8
300361 2007 RO_{87}	17.3	X	161.74244	354.66779	341.69531	0.78932	0.1996987	0.26446133	2.4037793	20	1 19.9	21.0
300362 2007 RX_{89}	17.1	X	313.30253	79.07865	0.62716	4.35023	0.1924842	0.23513129	2.5997351	20	12 8.8	19.3
300363 2007 RM_{91}	16.7	X	225.00657	343.59542	184.98978	13.63427	0.0995430	0.23846733	2.5754322	20	11 29.2	20.4
300364 2007 RZ_{91}	17.8	X	60.51701	346.42102	296.06944	0.44446	0.1827519	0.23285601	2.6166427	20	10 31.8	21.4
300365 2007 RJ_{102}	16.8	X	51.23901	217.55507	206.05109	7.16768	0.1723752	0.25476085	2.4644173	20	—	—
300366 2007 RO_{108}	17.6	X	142.70548	346.69702	336.48331	2.22498	0.2016169	0.25804759	2.4434466	20	—	—
300367 2007 RA_{109}	17.5	X	166.79356	324.62880	341.03806	1.74444	0.1755801	0.25998588	2.4312869	20	—	—
300368 2007 RN_{120}	16.1	X	77.81319	220.86754	195.06434	22.96848	0.2045846	0.26035714	2.4289751	20	1 14.9	19.2
300369 2007 RO_{122}	17.8	X	53.92941	60.68400	43.61503	1.87461	0.1460085	0.26686906	2.3892993	20	2 5.5	19.9
300370 2007 RE_{126}	17.2	X	94.40976	0.90166	2.43853	2.42672	0.0609414	0.25491227	2.4634413	20	—	—
300371 2007 RS_{130}	17.7	X	57.19818	313.34916	18.68410	4.74607	0.2345422	0.23981412	2.5657808	20	—	—
300372 2007 RS_{134}	17.3	X	69.95953	132.16071	218.31042	3.30091	0.1577029	0.24710298	2.5150737	20	—	—
300373 2007 RH_{140}	17.0	X	162.74591	293.04709	3.19840	5.40608	0.1948118	0.25924289	2.4359300	20	—	—
300374 2007 RB_{141}	17.4	X	25.80360	222.37580	152.78042	3.69420	0.1557807	0.24123085	2.5557252	20	—	—
300375 2007 RR_{142}	15.9	X	31.82577	161.73377	238.40709	6.19989	0.1917542	0.23945657	2.5683343	20	—	—
300376 2007 RB_{145}	15.8	X	34.63639	321.40479	346.13423	13.45105	0.1147081	0.23014558	2.6371467	20	10 15.4	19.4
300377 2007 RM_{145}	16.2	X	35.49727	348.16210	0.64012	15.15960	0.1394078	0.23654127	2.5893938	20	12 19.6	20.0
300378 2007 RD_{146}	16.3	X	76.54446	36.98934	13.18884	8.04067	0.1919086	0.25782171	2.4448735	20	1 9.0	18.8
300379 2007 RX_{148}	16.5	X	61.09342	12.09333	41.58259	6.93443	0.1317542	0.25470998	2.4647454	20	—	—
300380 2007 RQ_{150}	16.0	X	35.47188	295.79510	47.01705	30.84834	0.3023272	0.23220601	2.6215235	20	12 30.6	20.4
300381 2007 RV_{150}	17.1	X	83.38156	315.89989	63.88519	5.79560	0.2096471	0.25558659	2.4591065	20	—	—
300382 2007 RQ_{156}	17.7	X	101.45922	108.13424	293.36469	0.59873	0.1831587	0.26268813	2.4145845	20	2 2.3	20.3
300383 2007 RB_{158}	17.4	X	184.85602	243.63281	41.49664	2.46104	0.1728075	0.26205418	2.4184772	20	—	—
300384 2007 RP_{158}	17.1	X	113.36258	316.18511	9.16887	6.57110	0.1278167	0.25248040	2.4792345	20	—	—
300385 2007 RO_{164}	17.5	X	75.88805	88.67220	324.93501	6.57088	0.0960620	0.26066379	2.4270697	20	—	—
300386 2007 RK_{174}	17.1	X	75.09180	267.91958	111.30211	3.30382	0.1571258	0.25083900	2.4900382	20	—	—
300387 2007 RY_{195}	16.0	X	149.93790	49.61369	240.87974	13.92246	0.1409313	0.25704893	2.4497712	20	—	—
300388 2007 RT_{196}	17.7	X	216.23062	310.95320	343.73993	3.18961	0.0805017	0.27144699	2.3623597	20	1 15.4	21.0
300389 2007 RL_{202}	17.0	X	127.73910	61.10747	195.84712	8.42991	0.1324805	0.23933189	2.5692261	20	12 3.8	21.1
300390 2007 RK_{208}	17.6	X	95.83189	9.02428	52.54429	3.09424	0.1719025	0.26310864	2.4120112	20	2 21.4	20.4
300391 2007 RB_{216}	16.8	X	218.52870	333.30969	196.69737	7.26116	0.1383043	0.23688482	2.5868896	20	11 16.9	20.6
300392 2007 RY_{217}	17.0	X	345.16037	206.48769	183.36364	2.84198	0.1619094	0.22936923	2.6430940	20	11 29.5	19.6
300393 2007 RS_{222}	16.4	X	67.47163	280.09958	347.10140	4.00148	0.2278330	0.23111270	2.6297846	20	10 24.2	20.4
300394 2007 RN_{226}	16.8	X	123.91642	180.27010	43.93035	2.61767	0.0296648	0.22993136	2.6387844	20	10 14.5	20.4
300395 2007 RG_{231}	16.9	X	262.12937	126.76135	3.92607	11.84452	0.1306555	0.23747523	2.5826001	20	11 19.4	20.2
300396 2007 RL_{240}	17.2	X	47.80804	326.56050	9.56135	4.55948	0.0615259	0.23550066	2.5970161	20	12 7.1	20.6
300397 2007 RA_{242}	16.2	X	13.25932	21.73401	35.56919	14.55171	0.1485977	0.23911846	2.5707548	20	—	—
300398 2007 RK_{253}	16.5	X	311.43772	237.61470	187.69695	4.66832	0.1395925	0.22783194	2.6549701	20	11 14.4	19.3
300399 2007 RW_{256}	16.8	X	75.90361	70.58541	13.06321	6.14315	0.0925252	0.26623721	2.3930781	20	2 9.6	19.5
300400 2007 RV_{258}	16.3	X	77.36456	289.08932	356.99579	8.81425	0.1727444	0.23600065	2.5933467	20	11 19.9	20.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
300401 2007 RM_{259}	16.1	X	189.29487	15.13730	154.08876	6.00899	0.0197981	0.23140701	2.6275543	20	10 26.2	19.7
300402 2007 RF_{260}	16.3	X	329.94365	326.83566	47.15180	8.05270	0.1083459	0.22219827	2.6996592	20	10 7.8	19.4
300403 2007 RM_{262}	17.5	X	149.95611	128.59759	192.04064	5.57895	0.1433330	0.26265509	2.4147870	20	—	—
300404 2007 RH_{271}	15.6	X	160.90577	218.42081	229.42976	8.65755	0.0743674	0.19578760	2.9372839	20	6 2.3	19.9
300405 2007 RD_{277}	16.4	X	4.59014	71.77833	263.07209	10.64419	0.1211806	0.23033959	2.6356657	20	10 7.6	19.7
300406 2007 RF_{281}	16.0	X	64.52782	49.89673	251.95345	13.64785	0.1151150	0.23379664	2.6096196	20	11 21.1	19.7
300407 2007 RN_{284}	18.0	X	21.27162	226.70583	161.35574	0.95115	0.1441501	0.23964173	2.5670111	20	—	—
300408 2007 RW_{284}	17.7	X	272.65566	265.53344	176.13684	4.05731	0.0475398	0.22874691	2.6478856	20	10 14.8	21.1
300409 2007 RG_{287}	17.5	X	311.29436	64.16448	7.33352	1.50086	0.0363641	0.23533854	2.5982086	20	11 26.4	20.8
300410 2007 RO_{287}	16.9	X	0.15445	148.32630	201.70269	1.48812	0.0992451	0.22964212	2.6409997	20	10 24.1	19.9
300411 2007 RK_{288}	16.8	X	25.37709	240.58468	157.59560	13.85294	0.1902891	0.24286143	2.5442729	20	—	—
300412 2007 RQ_{290}	16.3	X	230.52541	249.00986	217.02604	5.23297	0.0763682	0.21718076	2.7410807	20	9 12.2	20.2
300413 2007 RY_{295}	16.6	X	65.76639	189.30044	53.64413	4.06564	0.1558376	0.21859755	2.7292241	20	9 13.7	20.3
300414 2007 RC_{296}	16.8	X	68.53663	242.05190	5.90179	1.35306	0.0127457	0.22130998	2.7068782	20	9 1.1	20.3
300415 2007 RW_{296}	16.7	X	306.43422	44.34984	282.63448	1.00499	0.0723906	0.20502134	2.8484155	20	6 22.7	20.2
300416 2007 RN_{298}	16.6	X	321.01034	319.32301	153.26175	5.25472	0.2507066	0.24137306	2.5547213	20	—	—
300417 2007 RK_{314}	16.9	X	215.59564	214.24917	56.47233	3.28054	0.1841887	0.26449927	2.4035495	20	—	—
300418 2007 RQ_{318}	17.0	X	103.29167	261.41237	14.30325	3.16463	0.1530615	0.24073645	2.5592231	20	12 3.4	21.1
300419 2007 RO_{321}	15.7	X	157.37064	248.30375	2.39025	12.49373	0.1470831	0.24147614	2.5539941	20	12 23.0	20.0
300420 2007 SN_{5}	17.2	X	75.17664	159.12724	173.93281	8.00252	0.2154183	0.24369508	2.5384671	20	—	—
300421 2007 SD_{15}	16.5	X	7.50959	346.52892	49.11273	6.08556	0.0502838	0.24074429	2.5591676	20	12 31.6	19.7
300422 2007 SH_{16}	17.0	X	59.74598	64.61236	5.47214	6.23542	0.1194421	0.26021482	2.4298606	20	—	—
300423 2007 SH_{19}	17.2	X	347.30384	89.15180	310.47267	1.26725	0.2148796	0.22898301	2.6460652	20	12 23.5	19.7
300424 2007 SG_{20}	16.1	X	65.69352	294.45111	8.56316	14.79705	0.0778102	0.23031048	2.6358878	20	11 13.9	20.0
300425 2007 TA_{4}	16.4	X	260.07054	74.71345	349.93172	6.84078	0.0692675	0.22082967	2.7108018	20	8 31.1	19.8
300426 2007 TM_{5}	16.2	X	74.00867	243.97259	83.51417	14.87585	0.2007962	0.24201108	2.5502292	20	—	—
300427 2007 TW_{8}	17.6	X	319.48883	247.10848	212.90913	3.53066	0.1615826	0.23709767	2.5853412	20	—	—
300428 2007 TX_{11}	16.5	X	302.90864	59.84693	24.09052	5.48763	0.2372210	0.23007834	2.6376605	20	11 15.1	18.8
300429 2007 TN_{12}	17.0	X	110.87284	334.03085	35.34455	5.15400	0.1721145	0.25524260	2.4613155	20	1 3.7	20.0
300430 2007 TC_{16}	16.4	X	2.48776	205.88241	154.70726	6.16339	0.3396374	0.22967087	2.6407793	20	12 18.9	19.2
300431 2007 TP_{16}	16.4	X	273.30910	315.29900	170.18563	13.44147	0.0655863	0.23873595	2.5735000	20	12 13.3	19.9
300432 2007 TT_{17}	15.8	X	38.95860	270.35608	19.12231	12.86430	0.1098226	0.22357841	2.6885378	20	10 2.8	19.1
300433 2007 TX_{21}	15.6	X	313.87630	207.45955	232.85159	9.43400	0.1631040	0.23004249	2.6379345	20	12 9.8	18.1
300434 2007 TR_{28}	17.9	X	57.73251	103.97152	213.23910	2.25112	0.2445662	0.23637621	2.5905991	20	12 18.6	21.8
300435 2007 TT_{32}	17.6	X	137.44609	50.64612	271.93606	0.34745	0.1990464	0.25783278	2.4448035	20	—	—
300436 2007 TF_{34}	18.0	X	63.40784	191.93222	175.48514	0.80773	0.1943873	0.24412495	2.5354863	20	—	—
300437 2007 TM_{34}	16.6	X	20.77899	284.87659	38.19217	6.58720	0.1509746	0.22656175	2.6648841	20	10 26.6	19.8
300438 2007 TX_{38}	16.6	X	297.24372	47.55628	47.35011	3.55515	0.1659950	0.23017011	2.6369594	20	11 26.9	19.3
300439 2007 TH_{39}	16.8	X	313.68943	186.90284	199.15436	4.69174	0.0653821	0.22192056	2.7019109	20	9 25.4	20.1
300440 2007 TG_{42}	17.7	X	156.08837	90.45476	193.05690	2.28267	0.1793203	0.25522216	2.4614468	20	—	—
300441 2007 TO_{43}	16.2	X	312.81156	187.29374	214.02536	13.66173	0.0909007	0.22389917	2.6859694	20	10 13.3	19.4
300442 2007 TQ_{43}	16.6	X	13.66233	271.85270	78.65343	2.53142	0.1063298	0.22789556	2.6544760	20	11 15.5	19.8
300443 2007 TR_{47}	16.9	X	313.05297	16.91706	358.29594	5.08576	0.1033526	0.22195421	2.7016378	20	9 7.8	20.1
300444 2007 TQ_{50}	17.7	X	40.50666	341.67875	328.46222	1.58989	0.2036489	0.23118912	2.6292050	20	11 14.6	21.2
300445 2007 TP_{53}	16.9	X	0.77807	313.18920	40.22919	2.24449	0.1132710	0.22784432	2.6548740	20	10 30.8	19.8
300446 2007 TK_{54}	16.9	X	256.62097	317.11549	204.56158	9.16523	0.1418603	0.23653068	2.5894711	20	12 23.9	20.2
300447 2007 TV_{54}	15.8	X	281.36446	214.35582	220.09847	13.76426	0.0791120	0.22458466	2.6805011	20	10 9.7	19.2
300448 2007 TO_{55}	17.1	X	52.66786	279.48561	11.05968	3.72019	0.2539052	0.22899617	2.6459639	20	11 10.0	20.9
300449 2007 TW_{59}	17.1	X	8.24179	23.14052	21.26610	3.61231	0.1136111	0.24355434	2.5394449	20	—	—
300450 2007 TJ_{63}	16.5	X	65.57814	120.94352	205.36642	6.30632	0.1133169	0.23548979	2.5970960	20	12 23.0	20.3
300451 2007 TA_{68}	16.8	X	67.13558	170.70601	175.71183	7.27088	0.1709018	0.24279969	2.5447042	20	—	—
300452 2007 TY_{70}	16.5	X	96.06484	345.05870	54.54392	5.33724	0.1516244	0.25758718	2.4463573	20	1 20.1	19.4
300453 2007 TF_{74}	16.1	X	321.03819	58.75331	29.69934	13.66162	0.2433749	0.23145147	2.6272179	20	—	—
300454 2007 TM_{74}	16.3	X	348.75885	269.94541	134.52400	7.48416	0.1925023	0.23296566	2.6158215	20	12 31.3	19.0
300455 2007 TM_{77}	17.4	X	27.72773	6.31434	355.66410	3.83051	0.2128512	0.23620049	2.5918837	20	—	—
300456 2007 TQ_{77}	17.5	X	37.88557	15.34244	4.24007	5.57212	0.2621338	0.24103005	2.5571444	20	—	—
300457 2007 TE_{79}	17.0	X	66.98310	305.53301	18.58776	5.63451	0.1272465	0.23680037	2.5875046	20	12 23.9	20.8
300458 2007 TW_{81}	16.9	X	161.28369	68.97772	151.21524	2.19082	0.0221839	0.22998527	2.6383721	20	11 23.8	20.5
300459 2007 TB_{83}	16.7	X	156.07394	36.78119	187.96413	3.72946	0.1457631	0.23759101	2.5817611	20	11 20.6	20.7
300460 2007 TC_{86}	16.5	X	93.58277	142.19380	162.85818	3.64651	0.2132887	0.24028439	2.5624320	20	—	—
300461 2007 TH_{86}	16.1	X	15.91272	313.05352	22.42653	13.66552	0.2717986	0.22894696	2.6463430	20	11 20.9	19.3
300462 2007 TK_{86}	16.4	X	235.47961	347.71630	105.41493	3.35547	0.0452574	0.21866229	2.7286853	20	9 9.5	20.0
300463 2007 TL_{86}	17.3	X	338.40721	267.66328	105.97235	2.80568	0.1051608	0.22575778	2.6712072	20	10 21.3	20.2
300464 2007 TG_{87}	17.3	X	4.09120	200.67416	180.56124	5.74375	0.0468105	0.23215483	2.6219087	20	12 5.9	20.7
300465 2007 TN_{94}	16.0	X	226.40380	284.55743	183.40468	8.98138	0.1209580	0.22031388	2.7150311	20	9 5.1	20.0
300466 2007 TC_{97}	17.8	X	68.39195	106.95722	183.25163	2.79014	0.1061667	0.23306195	2.6151010	20	11 10.7	21.4
300467 2007 TW_{98}	17.0	X	210.36447	113.24566	40.69266	4.84311	0.0717640	0.22880150	2.6474644	20	10 24.3	20.7
300468 2007 TP_{107}	16.6	X	316.65206	194.82568	182.17271	6.28760	0.0600397	0.22273036	2.6953579	20	9 18.3	19.7
300469 2007 TQ_{107}	16.7	X	290.38197	334.33632	207.53218	5.69663	0.0798388	0.25530477	2.4609159	20	—	—
300470 2007 TN_{112}	17.2	X	34.88825	38.70055	305.17654	9.37362	0.2046735	0.23746661	2.5826627	20	12 23.1	20.8
300471 2007 TR_{113}	16.6	X	34.05570	194.44745	112.46163	7.02668	0.2674895	0.23108816	2.6299707	20	11 14.6	20.1
300472 2007 TE_{114}	15.6	X	64.37410	288.75117	10.33206	13.01763	0.1675086	0.23282967	2.6168400	20	11 20.3	19.6
300473 2007 TK_{114}	16.2	X	59.91970	303.12512	15.00674	11.58241	0.1948477	0.23622508	2.5917039	20	12 15.4	20.3
300474 2007 TW_{114}	16.6	X	326.62169	176.53081	199.19736	11.28042	0.1046359	0.22259248	2.6964708	20	9 30.4	19.5
300475 2007 TO_{116}	17.6	X	164.46169	116.31962	175.01030	6.17274	0.0991182	0.25810418	2.4430894	20	—	—
300476 2007 TG_{117}	16.9	X	78.66542	248.59309	68.33395	6.55753	0.1508151	0.23821438	2.5772551	20	12 29.7	20.8
300477 2007 TV_{119}	15.8	X	196.52036	220.83048	228.43686	14.30334	0.1117896	0.20573411	2.8418327	20	7 8.7	20.5
300478 2007 TT_{120}	16.5	X	63.97432	109.33386	221.90743	8.37994	0.1403055	0.23669857	2.5882464	20	12 29.9	20.4
300479 2007 TG_{123}	16.1	X	25.39131	306.69954	37.68628	13.81804	0.1808682	0.23249793	2.6193286	20	12 3.9	19.5
300480 2007 TH_{125}	17.1	X	66.29726	191.51509	101.36900	2.96251	0.1251115	0.23041427	2.6350962	20	11 13.7	20.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
300481 2007 TA_{126}	16.9	X	337.66816	126.00652	205.65787	5.56485	0.0273060	0.21618200	2.7495167	20	8 17.0	20.6
300482 2007 TB_{126}	16.5	X	339.67041	348.88658	32.18219	3.83578	0.0957451	0.22761392	2.6566653	20	11 1.0	19.4
300483 2007 TC_{127}	17.1	X	19.44043	157.23701	170.12656	2.09111	0.2059200	0.22846101	2.6500942	20	11 8.8	20.0
300484 2007 TV_{127}	16.8	X	319.61254	323.59413	76.00072	3.23382	0.0839079	0.22634130	2.6666142	20	10 25.4	19.9
300485 2007 TK_{129}	16.6	X	336.88852	344.81652	35.30673	2.93479	0.0889013	0.22546614	2.6735101	20	10 25.6	19.7
300486 2007 TK_{130}	17.5	X	330.82787	69.60666	340.56215	3.52153	0.2489370	0.22988934	2.6391060	20	12 5.9	19.6
300487 2007 TT_{131}	17.5	X	64.94549	145.37103	197.41590	1.13790	0.0990836	0.23885189	2.5726671	20	—	—
300488 2007 TZ_{132}	16.6	X	69.49224	214.51103	46.70189	5.42702	0.0668131	0.22084165	2.7107038	20	9 29.8	20.2
300489 2007 TJ_{133}	17.3	X	21.16121	249.94987	52.11773	3.05045	0.0836041	0.21957867	2.7210882	20	9 18.8	20.5
300490 2007 TZ_{134}	16.9	X	208.13505	298.42473	334.92874	5.59584	0.1053079	0.26257491	2.4152786	20	—	—
300491 2007 TQ_{142}	16.2	X	359.04537	350.97488	14.87747	10.60238	0.0860975	0.23002803	2.6380451	20	11 8.4	19.4
300492 2007 TE_{143}	16.5	X	20.48627	229.65283	142.66048	8.40636	0.2007390	0.23469545	2.6029526	20	—	—
300493 2007 TF_{145}	17.3	X	29.54422	357.83010	6.01189	3.60267	0.1843387	0.23752328	2.5822519	20	—	—
300494 2007 TK_{153}	16.7	X	108.94719	278.00893	9.12703	16.10387	0.1046892	0.24014825	2.5634003	20	12 19.9	20.9
300495 2007 TE_{155}	16.3	X	12.15536	154.45634	218.34371	13.40069	0.0765670	0.23493726	2.6011663	20	12 9.9	19.7
300496 2007 TL_{155}	16.5	X	88.47219	286.74473	10.60014	17.56524	0.3102547	0.24193275	2.5507797	20	12 26.0	21.4
300497 2007 TW_{157}	17.0	X	331.77965	91.14872	350.14956	3.61107	0.1600370	0.23793740	2.5792547	20	—	—
300498 2007 TM_{158}	16.2	X	323.86207	56.38987	340.09709	5.38001	0.0570287	0.22816886	2.6523559	20	10 25.1	19.5
300499 2007 TU_{158}	16.2	X	263.60383	144.32582	264.26396	5.15232	0.0772900	0.21611438	2.7500902	20	8 9.6	19.9
300500 2007 TO_{160}	17.7	X	358.82059	63.77981	331.25183	3.30839	0.3091871	0.23334741	2.6129678	20	—	—
300501 2007 TN_{161}	16.7	X	336.98865	195.61393	173.78669	3.70505	0.1073331	0.22780123	2.6552087	20	10 12.7	19.5
300502 2007 TW_{161}	17.5	X	3.36789	341.41436	44.92147	4.38229	0.1163221	0.23597179	2.5935582	20	12 20.8	20.5
300503 2007 TB_{165}	17.2	X	325.52794	232.87936	178.93625	2.12712	0.1888610	0.23092093	2.6312403	20	11 23.8	19.5
300504 2007 TW_{165}	17.0	X	329.95185	16.74535	56.17275	2.90181	0.3135170	0.23044517	2.6348606	20	—	—
300505 2007 TJ_{172}	16.7	X	31.51304	233.27220	143.11367	6.18440	0.1162142	0.23998808	2.5645407	20	—	—
300506 2007 TH_{173}	16.8	X	279.96960	232.27682	197.65263	5.33269	0.0575139	0.22669916	2.6638071	20	10 6.7	20.2
300507 2007 TJ_{174}	17.0	X	284.27453	230.83702	210.64421	2.07700	0.0720199	0.22789811	2.6544562	20	10 27.2	20.3
300508 2007 TV_{175}	16.7	X	334.41018	264.03194	124.74102	3.16587	0.1078100	0.22841841	2.6504237	20	11 5.2	19.7
300509 2007 TG_{178}	15.9	X	52.94078	274.31513	14.23781	13.10876	0.1778188	0.22684287	2.6626820	20	10 26.4	19.7
300510 2007 TZ_{182}	16.5	X	55.40447	156.51965	201.74668	4.94068	0.1362897	0.23892549	2.5721388	20	—	—
300511 2007 TP_{183}	16.8	X	49.58647	71.15772	276.21801	3.51347	0.1688206	0.23650224	2.5896787	20	—	—
300512 2007 TH_{186}	16.9	X	341.90166	244.41302	169.50804	7.55175	0.1754016	0.23505706	2.6002824	20	12 30.1	19.6
300513 2007 TJ_{186}	15.9	X	199.74845	302.73636	170.64453	8.74308	0.1622238	0.21469995	2.7621552	20	8 10.7	20.3
300514 2007 TU_{187}	16.5	X	325.78736	108.11278	48.01119	6.75510	0.0855703	0.25417024	2.4682335	20	—	—
300515 2007 TF_{190}	17.6	X	174.20940	323.63149	339.24003	1.85842	0.2166537	0.26338594	2.4103179	20	—	—
300516 2007 TG_{193}	16.6	X	89.37777	59.77627	222.91018	12.53341	0.1738374	0.23117873	2.6292838	20	11 29.6	20.7
300517 2007 TH_{196}	16.9	X	101.70001	2.75192	195.80183	3.97599	0.0376890	0.21177904	2.7874948	20	8 10.7	20.7
300518 2007 TD_{205}	16.7	X	263.46086	220.34761	164.19409	3.60478	0.1029086	0.21035244	2.8000837	20	7 5.3	20.6
300519 2007 TK_{210}	16.0	X	163.32554	5.91991	215.36361	14.19469	0.1725488	0.23628795	2.5912441	20	11 21.8	20.2
300520 2007 TW_{212}	16.7	X	244.45270	141.37114	296.78147	3.79178	0.0769878	0.21684607	2.7439004	20	8 24.7	20.5
300521 2007 TA_{213}	17.0	X	305.83193	72.57709	317.20438	3.91469	0.1245110	0.22127199	2.7071880	20	9 11.7	20.0
300522 2007 TV_{213}	16.1	X	49.06621	258.51484	25.73105	13.23195	0.1503820	0.22399745	2.6851837	20	10 14.9	19.7
300523 2007 TH_{214}	16.4	X	280.79873	180.01087	306.12665	2.41271	0.1160441	0.23341191	2.6124864	20	12 17.4	19.1
300524 2007 TX_{214}	16.8	X	321.17101	90.75259	10.72499	5.67113	0.0934835	0.23737601	2.5833198	20	—	—
300525 2007 TZ_{214}	16.6	X	340.14295	173.90558	244.44657	5.97725	0.0877665	0.23358393	2.6112036	20	12 23.5	19.7
300526 2007 TS_{215}	16.3	X	30.68002	280.30115	14.08413	6.57023	0.0557856	0.21884940	2.7271298	20	9 18.5	19.7
300527 2007 TA_{221}	16.6	X	82.12758	213.47851	162.21990	7.87695	0.1686140	0.25775316	2.4453070	20	—	—
300528 2007 TY_{222}	17.0	X	284.15898	309.78138	172.88578	5.66556	0.1650007	0.23415164	2.6069813	20	12 13.7	19.8
300529 2007 TH_{225}	16.4	X	54.47197	285.22940	23.35080	12.28533	0.1749179	0.23148563	2.6269594	20	11 22.8	20.3
300530 2007 TB_{226}	16.8	X	70.74659	95.58276	201.04443	6.05071	0.1146344	0.23190575	2.6237858	20	11 22.4	20.5
300531 2007 TN_{226}	16.2	X	170.08516	187.13044	47.92778	5.71160	0.1549616	0.23831388	2.5765376	20	12 14.5	20.3
300532 2007 TA_{228}	17.3	X	321.07732	152.36987	237.01449	1.46710	0.0866371	0.22513571	2.6761254	20	10 11.6	20.3
300533 2007 TO_{230}	16.7	X	344.59811	167.14664	190.30062	5.89667	0.0387141	0.22251565	2.6970915	20	10 4.3	20.1
300534 2007 TB_{237}	16.8	X	228.29454	68.88204	60.28165	4.62126	0.1569302	0.22365734	2.6879052	20	10 3.8	20.7
300535 2007 TC_{238}	17.1	X	92.15178	130.89773	177.92019	14.48198	0.0955047	0.24457199	2.5323958	20	12 29.8	21.1
300536 2007 TZ_{238}	17.1	X	119.29428	105.26222	153.42522	3.14604	0.1185778	0.23472077	2.6027655	20	11 26.6	21.2
300537 2007 TZ_{243}	16.5	X	303.69970	164.17157	275.00419	4.28853	0.0193356	0.23264471	2.6182267	20	11 25.6	20.0
300538 2007 TQ_{244}	16.6	X	344.56587	56.13450	332.28311	10.36107	0.1484939	0.23132813	2.6281516	20	11 21.9	19.6
300539 2007 TP_{246}	16.0	X	301.84476	189.51648	261.91950	12.98040	0.2140215	0.23055248	2.6340429	20	11 27.4	18.2
300540 2007 TD_{253}	18.0	X	8.58374	242.85628	194.39557	6.38404	0.1831981	0.24462039	2.5320616	20	—	—
300541 2007 TW_{255}	16.8	X	277.55570	106.48995	300.17348	2.98660	0.0586328	0.21947517	2.7219436	20	8 30.6	20.2
300542 2007 TQ_{257}	17.4	X	52.24724	314.78979	35.92165	8.31789	0.2597804	0.23993136	2.5649449	20	—	—
300543 2007 TU_{260}	16.7	X	280.21508	259.57040	176.12039	3.16308	0.1623973	0.22356345	2.6886577	20	9 29.7	19.6
300544 2007 TL_{261}	16.1	X	329.00802	312.14623	28.52960	4.79356	0.0766816	0.21613909	2.7498806	20	8 19.2	19.4
300545 2007 TK_{262}	17.1	X	101.44805	248.15834	36.46146	3.42784	0.0970832	0.23323176	2.6138315	20	12 7.9	20.9
300546 2007 TB_{263}	16.2	X	250.74183	116.68335	38.68512	9.75142	0.0784156	0.23402782	2.6079008	20	12 15.2	19.7
300547 2007 TD_{263}	16.3	X	43.21899	232.92461	40.98030	5.45268	0.1155049	0.21875244	2.7279356	20	9 18.8	19.8
300548 2007 TN_{266}	17.0	X	224.48095	60.38519	165.79933	6.55586	0.0337714	0.25534246	2.4606737	20	—	—
300549 2007 TS_{266}	15.9	X	169.71530	209.81552	24.28138	7.64536	0.2114411	0.24071328	2.5593873	20	12 9.6	20.2
300550 2007 TJ_{270}	16.8	X	254.18463	287.95291	222.07627	12.29336	0.1203231	0.23390632	2.6088038	20	12 8.0	20.1
300551 2007 TL_{271}	17.1	X	342.17459	143.89001	246.78678	1.53423	0.1204197	0.23032060	2.6358106	20	11 21.1	19.9
300552 2007 TP_{272}	16.8	X	311.41525	293.39346	128.87582	3.66462	0.0751799	0.22891342	2.6466015	20	11 13.2	19.9
300553 2007 TT_{272}	17.6	X	1.70026	240.52565	156.01543	4.23761	0.1591747	0.23500656	2.6006549	20	—	—
300554 2007 TC_{276}	16.9	X	52.83852	351.96148	277.56817	2.19380	0.1094784	0.22442708	2.6817557	20	9 22.5	20.4
300555 2007 TA_{293}	17.0	X	210.40743	98.28287	51.07338	2.78191	0.1428935	0.22664577	2.6642254	20	10 10.7	20.9
300556 2007 TN_{296}	16.5	X	25.71058	221.69377	60.15147	12.67226	0.1809505	0.21804230	2.7338554	20	9 18.2	20.0
300557 2007 TC_{298}	16.9	X	60.40772	341.23071	352.95989	3.64336	0.0240371	0.23723156	2.5843683	20	12 16.1	20.5
300558 2007 TB_{299}	17.0	X	2.42253	165.20694	221.36997	3.10287	0.0755495	0.23480388	2.6021512	20	12 14.1	20.2
300559 2007 TT_{302}	17.0	X	56.29491	310.96853	25.71918	2.36242	0.0804485	0.23561146	2.5962018	20	12 21.5	20.5
300560 2007 TQ_{319}	17.3	X	241.51220	266.62713	199.34680	5.27254	0.1018578	0.21965304	2.7204740	20	9 23.6	21.1

ELEMENTS AND OPPOSITION DATES IN 2020

ECLIPTIC AND EQUINOX 2000.0, EPOCH 2020 MAY 31.0 TT

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
300561 2007 TH_{320}	17.4	X	23.08306	146.82072	247.31583	1.73075	0.0864350	0.24232900	2.5479983	20	—	—
300562 2007 TS_{326}	16.4	X	303.25528	175.26360	260.10374	3.88461	0.1083748	0.22953737	2.6418031	20	11 14.3	19.4
300563 2007 TF_{327}	16.6	X	327.42189	34.31554	318.40007	4.63042	0.0681142	0.21908647	2.7251621	20	8 30.9	19.8
300564 2007 TO_{327}	17.0	X	41.84684	28.06173	308.45806	4.41881	0.1318055	0.23345884	2.6121363	20	12 10.2	20.5
300565 2007 TG_{331}	16.8	X	238.41942	286.41788	234.66137	11.59237	0.2018984	0.22922493	2.6442032	20	11 17.8	20.2
300566 2007 TU_{331}	16.9	X	337.73228	31.42628	294.23134	2.48828	0.0957477	0.21499586	2.7596202	20	8 8.9	20.2
300567 2007 TU_{333}	16.5	X	358.25506	348.34496	7.53125	2.62133	0.0628952	0.22489300	2.6780505	20	10 23.7	19.8
300568 2007 TS_{336}	17.0	X	167.32169	343.51960	329.97864	4.65356	0.1138729	0.26155920	2.4215274	20	—	—
300569 2007 TP_{337}	16.9	X	70.37502	291.67067	116.42490	2.35191	0.1380601	0.25687950	2.4508482	20	—	—
300570 2007 TA_{338}	17.1	X	49.99308	230.08281	104.60486	4.50018	0.2647042	0.23747810	2.5825794	20	—	—
300571 2007 TH_{342}	16.4	X	301.97629	213.83854	222.28522	6.36453	0.0575127	0.22605905	2.6688333	20	11 16.5	19.8
300572 2007 TG_{344}	17.2	X	333.31291	276.28985	145.33502	4.80134	0.1566071	0.23301124	2.6154804	20	12 22.5	19.8
300573 2007 TX_{353}	16.4	X	336.68571	120.46418	235.58985	5.07620	0.0341671	0.22260148	2.6963981	20	9 18.4	19.8
300574 2007 TM_{360}	16.1	X	56.55039	99.16797	203.47115	14.18888	0.0556328	0.22473208	2.6793287	20	11 3.9	19.7
300575 2007 TG_{361}	16.2	X	50.21506	289.50244	51.43092	11.33399	0.2031521	0.23477760	2.6023454	20	—	—
300576 2007 TB_{363}	16.7	X	24.96218	292.77205	57.56183	12.91685	0.1782533	0.23003545	2.6379884	20	12 11.3	20.1
300577 2007 TA_{367}	16.4	X	116.73206	267.73766	25.51862	11.75829	0.1888922	0.24044670	2.5612787	20	—	—
300578 2007 TF_{367}	17.1	X	209.40120	325.16756	355.09221	6.75874	0.1220719	0.27609884	2.3357498	20	2 10.5	20.7
300579 2007 TG_{368}	16.6	X	25.86443	357.22187	40.50263	5.06700	0.1371558	0.23808291	2.5782038	20	—	—
300580 2007 TA_{371}	16.6	X	280.60813	257.25383	148.07084	5.65282	0.1209726	0.21789452	2.7350914	20	8 24.8	20.0
300581 2007 TD_{372}	16.7	X	151.72687	18.17935	184.55494	14.93649	0.2080016	0.23046555	2.6347053	20	10 20.4	21.2
300582 2007 TT_{373}	16.2	X	21.78447	280.87061	34.87774	12.79189	0.2031128	0.22582517	2.6706757	20	10 26.3	19.3
300583 2007 TM_{385}	16.5	X	225.12704	117.81421	21.21276	7.98210	0.1946818	0.22565894	2.6719871	20	10 7.2	20.6
300584 2007 TC_{386}	16.1	X	57.15986	249.72920	69.23626	13.95525	0.2026520	0.23649852	2.5897058	20	12 14.9	20.0
300585 2007 TL_{388}	17.0	X	28.42597	69.08742	32.46133	6.42772	0.1264637	0.25588235	2.4572113	20	—	—
300586 2007 TW_{388}	16.9	X	352.35339	337.72204	91.82117	2.96841	0.0678705	0.24178310	2.5518320	20	—	—
300587 2007 TJ_{393}	16.5	X	256.79584	298.66479	200.38387	12.57823	0.1807676	0.23207065	2.6225427	20	11 18.8	19.8
300588 2007 TD_{398}	16.7	X	9.02661	40.79721	259.25005	5.59213	0.0303720	0.21578104	2.7529217	20	8 18.7	20.5
300589 2007 TQ_{398}	16.7	X	334.95245	341.51536	76.54829	5.09834	0.1860548	0.23319138	2.6141333	20	12 23.3	19.1
300590 2007 TE_{404}	17.4	X	336.48041	190.70174	274.76092	1.61009	0.1301983	0.24085358	2.5583933	20	—	—
300591 2007 TA_{405}	16.8	X	311.07760	358.41441	26.51589	6.35570	0.0385189	0.21980837	2.7191922	20	9 23.9	20.2
300592 2007 TM_{411}	16.3	X	79.65710	167.27398	180.31544	13.60731	0.1844433	0.24222230	2.5487465	20	—	—
300593 2007 TF_{412}	15.8	X	299.96325	171.76151	238.76643	10.91391	0.0652581	0.22527155	2.6750495	20	10 5.4	19.3
300594 2007 TN_{418}	16.8	X	191.61984	261.31509	211.78498	2.72915	0.0452591	0.21266874	2.7797150	20	8 8.9	20.9
300595 2007 TK_{419}	16.6	X	145.12885	67.79486	205.57048	8.26203	0.0438413	0.24206433	2.5498552	20	—	—
300596 2007 TN_{419}	16.6	X	86.56992	230.64918	76.45349	4.84165	0.0545121	0.23081554	2.6320412	20	12 15.7	20.4
300597 2007 TD_{421}	16.1	X	348.42845	226.81331	141.86860	14.84623	0.1183503	0.22833585	2.6510626	20	11 6.6	19.4
300598 2007 TA_{426}	17.0	X	53.17521	58.21683	220.60702	11.98988	0.2343898	0.22711171	2.6605802	20	10 24.3	20.8
300599 2007 TW_{430}	15.7	X	269.84549	305.07879	78.16302	7.28274	0.0750980	0.20186427	2.8780373	20	7 16.9	19.7
300600 2007 TX_{430}	15.8	X	205.05331	327.57219	83.20829	12.09315	0.0833434	0.19328771	2.9625559	20	6 3.7	20.2
300601 2007 TO_{432}	16.8	X	167.75249	19.52492	161.43605	2.47367	0.0510147	0.22402132	2.6849929	20	10 10.4	20.5
300602 2007 TE_{434}	17.7	X	329.19411	39.22342	358.06785	2.91366	0.1846328	0.22708615	2.6607799	20	11 7.0	20.0
300603 2007 TB_{435}	15.8	X	113.52817	347.79785	288.94391	14.42526	0.1179522	0.23510878	2.5999010	20	12 12.5	19.9
300604 2007 TJ_{436}	17.1	X	139.66728	261.07742	35.43396	9.31058	0.2568450	0.25368561	2.4713760	20	—	—
300605 2007 TF_{438}	17.0	X	276.01804	122.30799	331.06336	1.07707	0.0493284	0.23109624	2.6299094	20	11 2.9	20.3
300606 2007 TO_{439}	17.2	X	135.50602	57.89052	228.29181	5.04112	0.1048751	0.24212617	2.5494210	20	—	—
300607 2007 TA_{441}	17.1	X	39.60250	272.77838	81.80520	9.64126	0.1818492	0.23836831	2.5761454	20	—	—
300608 2007 TT_{441}	16.8	X	96.83969	294.03508	33.80749	10.29049	0.0982229	0.24364270	2.5388309	20	—	—
300609 2007 TE_{445}	16.6	X	279.19863	266.94131	154.66668	5.29966	0.1403293	0.22185225	2.7024655	20	9 12.2	19.8
300610 2007 TP_{448}	16.9	X	106.09624	235.32519	81.20277	2.61615	0.0809036	0.24049071	2.5609662	20	—	—
300611 2007 TB_{452}	16.7	X	13.31211	17.33303	334.39200	2.40423	0.1321578	0.22744031	2.6580170	20	11 18.9	19.8
300612 2007 UJ_{1}	16.2	X	288.18818	26.49435	31.74886	14.88515	0.0224774	0.22490763	2.6779343	20	10 9.8	19.7
300613 2007 UP_{5}	16.9	X	286.33399	239.32625	196.10447	4.58458	0.1655593	0.22588454	2.6702077	20	10 9.3	19.6
300614 2007 UL_{9}	16.1	X	54.36582	226.11809	72.78439	9.91946	0.1079630	0.22940646	2.6428080	20	11 6.3	19.8
300615 2007 UJ_{11}	16.4	X	59.18693	219.38159	137.00475	10.66283	0.2587699	0.24121365	2.5558466	20	—	—
300616 2007 UU_{11}	16.5	X	266.40363	196.51444	198.06878	14.62091	0.2120797	0.21304067	2.7764788	20	7 4.7	20.8
300617 2007 UV_{11}	16.4	X	350.18114	309.94988	67.93010	9.25824	0.1829983	0.22914898	2.6447874	20	11 24.3	19.0
300618 2007 UA_{16}	17.1	X	319.58162	168.91745	170.55680	2.77391	0.0429599	0.21654842	2.7464142	20	8 2.0	20.5
300619 2007 UL_{20}	17.0	X	330.33002	226.68919	154.23348	2.01579	0.0814138	0.22747291	2.6577630	20	10 17.0	20.1
300620 2007 US_{22}	16.6	X	64.35616	270.59713	49.42418	12.54974	0.2225851	0.23617476	2.5920720	20	12 25.4	20.8
300621 2007 UL_{26}	16.6	X	26.18082	313.32981	68.43471	4.54521	0.1400947	0.23671448	2.5881305	20	—	—
300622 2007 UW_{28}	16.4	X	257.41457	209.82617	228.31290	8.74589	0.1875970	0.21654497	2.7464434	20	8 22.0	20.4
300623 2007 UG_{33}	15.8	X	74.75923	29.62267	273.93987	12.79756	0.0766015	0.23356003	2.6113818	20	11 30.3	19.5
300624 2007 UR_{33}	15.9	X	347.08953	5.87760	17.28150	18.23430	0.1828910	0.22923789	2.6441035	20	11 18.9	18.8
300625 2007 UW_{36}	16.7	X	27.01052	157.52373	167.66808	9.21096	0.1613684	0.23061261	2.6335850	20	11 12.5	20.1
300626 2007 UR_{37}	16.3	X	269.22782	251.78010	187.05607	21.53166	0.0521911	0.22524375	2.6752696	20	10 4.5	19.7
300627 2007 UE_{38}	15.9	X	83.58148	264.62663	35.26716	14.87212	0.1371929	0.23353544	2.6115651	20	12 9.4	20.0
300628 2007 UX_{39}	16.5	X	19.71360	325.12427	69.53585	15.54109	0.0432079	0.23777803	2.5804072	20	—	—
300629 2007 UE_{41}	17.1	X	38.65663	47.99902	339.87755	0.87076	0.0787195	0.24153706	2.5535647	20	—	—
300630 2007 UJ_{42}	16.8	X	63.63413	343.21937	305.77137	3.73866	0.0834021	0.22562249	2.6722748	20	10 27.6	20.6
300631 2007 UM_{43}	17.2	X	15.99381	177.32636	168.79732	2.30049	0.0595397	0.22878775	2.6475705	20	11 7.3	20.4
300632 2007 UB_{47}	16.4	X	25.30858	189.54389	199.61303	7.87670	0.1013036	0.23699436	2.5860924	20	—	—
300633 2007 UO_{47}	15.9	X	39.25632	303.99725	60.59005	14.91423	0.1648995	0.23510446	2.5999329	20	—	—
300634 2007 UT_{47}	16.5	X	36.66860	166.48531	204.00692	7.67317	0.1321519	0.23555212	2.5966378	20	—	—
300635 2007 UN_{54}	16.8	X	257.40494	66.58511	42.19464	1.92518	0.1054805	0.22426968	2.6830103	20	10 19.5	20.1
300636 2007 UT_{55}	16.6	X	324.86644	294.91038	49.00362	5.82092	0.0681893	0.21520593	2.7578241	20	8 17.9	20.1
300637 2007 UZ_{55}	16.8	X	53.36859	281.13885	50.61735	4.33100	0.0682607	0.23203215	2.6228328	20	12 8.9	20.2
300638 2007 UA_{59}	17.2	X	254.12062	207.20922	230.44580	2.57665	0.1754157	0.21714760	2.7413597	20	8 21.9	21.0
300639 2007 UG_{59}	17.0	X	314.46785	78.80415	36.08997	5.30649	0.1751309	0.23653989	2.5894038	20	—	—
300640 2007 UU_{59}	16.6	X	359.05141	150.28763	225.86594	13.23487	0.1329588	0.22980624	2.6397421	20	12 1.2	19.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
300641 2007 UM_{60}	17.1	X	264.17708	24.20752	42.73633	3.18447	0.0788379	0.21727686	2.7402724	20	9 7.5	20.8
300642 2007 UQ_{60}	15.5	X	12.47486	311.75936	226.82731	8.31775	0.0382124	0.18585180	3.0410592	20	3 14.4	19.6
300643 2007 UQ_{65}	16.9	X	297.33269	287.27734	169.61645	1.77040	0.0705556	0.23387639	2.6090263	20	12 8.4	19.8
300644 2007 UK_{75}	16.7	X	13.20717	88.94395	255.58426	5.33404	0.1150830	0.22675007	2.6634084	20	11 6.3	20.0
300645 2007 UQ_{76}	17.2	X	311.90554	137.64482	281.35487	1.37546	0.0666909	0.22710385	2.6606416	20	11 7.6	20.2
300646 2007 UV_{81}	17.4	X	65.82770	122.37075	191.99164	10.76951	0.1824253	0.23762346	2.5815260	20	12 16.9	21.5
300647 2007 UE_{82}	16.5	X	274.14312	144.09012	230.43474	8.53346	0.1537724	0.21131948	2.7915347	20	6 27.8	20.4
300648 2007 UH_{83}	16.5	X	93.21428	340.92696	234.68263	3.33723	0.0435418	0.21292335	2.7774986	20	8 22.9	20.4
300649 2007 UJ_{84}	17.3	X	298.37260	304.30520	56.13191	2.83614	0.0868058	0.21216135	2.7841451	20	7 25.9	20.8
300650 2007 UW_{84}	16.6	X	269.13757	288.84570	224.33170	2.22841	0.1769060	0.23307850	2.6149772	20	12 26.7	19.5
300651 2007 UC_{85}	16.9	X	84.70020	102.48418	224.46229	5.31795	0.1532106	0.23899908	2.5716107	20	—	—
300652 2007 UY_{87}	17.0	X	324.22933	203.16290	240.35690	4.37758	0.2298002	0.23183905	2.6242890	20	—	—
300653 2007 UZ_{88}	17.0	X	203.07896	21.23599	90.15468	0.53680	0.0200602	0.21400497	2.7681321	20	8 24.4	20.8
300654 2007 UV_{99}	16.8	X	243.76722	147.35362	261.37652	1.61602	0.0554582	0.20782898	2.8227038	20	7 18.9	20.8
300655 2007 UA_{102}	16.8	X	292.79299	150.44396	194.30112	1.52796	0.0853419	0.20627331	2.8368782	20	6 24.9	20.4
300656 2007 UX_{107}	17.9	X	15.26553	120.96697	226.40426	3.23200	0.2090072	0.23226349	2.6210909	20	11 30.3	20.8
300657 2007 UL_{108}	16.8	X	273.34510	50.21912	23.67674	0.96540	0.0944871	0.22126426	2.7072511	20	9 26.6	20.3
300658 2007 UQ_{118}	16.4	X	306.08914	130.08052	248.04764	1.94997	0.0934126	0.21851975	2.7298718	20	8 29.9	19.5
300659 2007 UV_{122}	16.7	X	271.46966	77.82606	57.36001	2.77182	0.0572530	0.23081750	2.6320263	20	12 20.8	19.9
300660 2007 UW_{123}	16.1	X	314.66266	339.86307	128.02678	11.10301	0.1149516	0.23707084	2.5855362	20	—	—
300661 2007 UQ_{125}	17.3	X	30.22092	356.29522	313.40791	1.27114	0.0645062	0.22627940	2.6671004	20	10 8.8	20.5
300662 2007 UR_{125}	17.2	X	329.17739	80.99140	348.54425	5.57476	0.2663803	0.23092022	2.6312457	20	—	—
300663 2007 UL_{129}	16.2	X	329.10468	59.52063	265.33294	4.92210	0.0224547	0.20798959	2.8212505	20	7 26.9	20.0
300664 2007 UO_{129}	16.9	X	218.53311	174.01427	223.11234	1.50376	0.0623712	0.20023633	2.8936153	20	6 2.3	21.0
300665 2007 UM_{130}	16.6	X	346.75383	311.54735	68.04485	15.32683	0.1814621	0.22932607	2.6434256	20	11 20.9	19.1
300666 2007 UV_{137}	16.7	X	288.34806	36.57259	14.56075	8.79905	0.0616759	0.22033206	2.7148818	20	9 23.6	20.1
300667 2007 UX_{138}	16.3	X	350.80081	307.70476	25.31644	8.82123	0.1186208	0.21860352	2.7291743	20	9 16.7	19.4
300668 2007 UP_{140}	17.0	X	279.84164	87.70322	309.05130	5.31409	0.0416124	0.21478210	2.7614509	20	8 22.3	20.6
300669 2007 VM_{5}	16.4	X	261.27065	24.24917	78.75282	13.92212	0.1403081	0.22386167	2.6862694	20	10 18.8	20.1
300670 2007 VQ_{5}	16.5	X	48.80838	334.10880	22.95512	6.06207	0.1352274	0.23770942	2.5809036	20	—	—
300671 2007 VE_{7}	16.1	X	253.23269	189.08497	218.99857	11.28203	0.0516478	0.21023849	2.8010954	20	7 27.6	20.2
300672 2007 VH_{11}	16.5	X	312.89219	217.18718	201.10333	9.04246	0.1692928	0.22572687	2.6714510	20	11 5.1	19.1
300673 2007 VZ_{11}	16.1	X	270.41366	312.79805	103.36993	12.42656	0.0380140	0.21648089	2.7469853	20	9 11.6	19.9
300674 2007 VL_{12}	16.4	X	160.94558	318.96069	251.38363	3.50520	0.0626494	0.23144927	2.6272345	20	11 8.4	20.1
300675 2007 VJ_{13}	16.6	X	178.62752	292.64115	217.80950	7.22383	0.0782910	0.21936306	2.7228709	20	9 8.7	20.7
300676 2007 VR_{19}	16.9	X	65.07151	176.01544	162.25739	4.86762	0.2382733	0.23845980	2.5754864	20	—	—
300677 2007 VB_{20}	16.8	X	234.92654	147.76556	268.85972	2.56158	0.0840214	0.20975691	2.8053811	20	7 14.8	20.8
300678 2007 VA_{23}	16.3	X	152.68702	319.26984	220.77689	8.77992	0.1732509	0.22047302	2.7137244	20	9 18.4	20.8
300679 2007 VJ_{25}	16.2	X	209.17554	264.07122	205.65532	12.54055	0.1726816	0.20998160	2.8033795	20	8 11.6	20.9
300680 2007 VL_{26}	16.8	X	272.12166	119.84755	21.29247	4.23344	0.1415358	0.23358674	2.6111827	20	12 20.3	19.7
300681 2007 VQ_{27}	17.1	X	94.54096	239.21652	15.35328	5.77122	0.0646751	0.22772922	2.6557685	20	10 19.8	20.7
300682 2007 VH_{29}	17.2	X	70.76394	262.55469	46.56497	3.76811	0.2029945	0.23427582	2.6060600	20	12 16.4	21.3
300683 2007 VU_{30}	16.3	X	152.22337	151.65529	340.19488	5.76228	0.0095070	0.20895251	2.8125763	20	7 17.7	20.2
300684 2007 VV_{30}	16.6	X	358.06570	47.44588	282.79328	5.54839	0.0135604	0.21960716	2.7208528	20	9 11.9	20.3
300685 2007 VO_{31}	15.8	X	230.99629	235.64094	240.50876	13.03060	0.1559703	0.21977906	2.7194339	20	9 11.9	20.1
300686 2007 VB_{39}	16.4	X	107.48336	77.26652	223.72786	4.96797	0.0519232	0.25119813	2.4876643	20	—	—
300687 2007 VY_{43}	16.4	X	341.93689	101.21753	297.00916	5.12216	0.0658337	0.22981574	2.6396694	20	11 25.9	19.7
300688 2007 VK_{44}	16.2	X	164.89011	239.36492	308.57639	5.30929	0.0794256	0.22203120	2.7010132	20	10 11.4	20.3
300689 2007 VE_{47}	16.7	X	317.93374	91.99283	309.26756	3.67421	0.1040563	0.22504071	2.6768785	20	10 20.8	19.7
300690 2007 VV_{47}	16.0	X	95.86102	301.08345	265.18371	7.73047	0.0856900	0.21075856	2.7964855	20	8 17.4	20.2
300691 2007 VF_{50}	16.8	X	298.73546	40.42283	317.20308	3.72917	0.0603319	0.21142234	2.7906292	20	7 25.6	20.3
300692 2007 VD_{53}	16.5	X	6.82287	189.88385	101.31051	5.26208	0.0778852	0.21145770	2.7903181	20	8 9.9	19.8
300693 2007 VN_{54}	16.4	X	157.79980	334.59992	177.48300	4.36883	0.0100043	0.21183900	2.7869688	20	8 19.0	20.1
300694 2007 VA_{55}	16.9	X	23.94736	226.08437	188.14354	4.84263	0.2206740	0.24071123	2.5594018	20	—	—
300695 2007 VQ_{61}	16.9	X	349.88879	123.47466	299.60449	1.43043	0.1223119	0.23419857	2.6066330	20	—	—
300696 2007 VZ_{61}	16.5	X	355.98474	159.70843	255.56580	3.11222	0.1940688	0.23436129	2.6054263	20	—	—
300697 2007 VE_{63}	15.9	X	157.36161	291.98114	236.55038	6.23282	0.0436854	0.21309210	2.7760321	20	9 7.3	20.1
300698 2007 VZ_{65}	16.8	X	349.39783	355.04981	7.42370	4.80415	0.0336001	0.22362353	2.6881761	20	10 16.9	20.3
300699 2007 VY_{67}	16.8	X	225.81104	220.02831	213.61195	3.67484	0.0489367	0.21135353	2.7912348	20	7 29.4	20.9
300700 2007 VG_{72}	16.5	X	293.76021	344.46711	65.02987	3.14768	0.0771282	0.21868040	2.7285347	20	9 27.4	19.9
300701 2007 VJ_{89}	16.2	X	245.29344	262.83919	189.34298	8.45146	0.0757827	0.21927244	2.7236211	20	9 13.8	19.9
300702 2007 VZ_{90}	16.1	X	16.74101	91.16095	257.81321	6.21492	0.2075159	0.22973830	2.6402625	20	12 3.4	19.2
300703 2007 VG_{94}	16.8	X	220.33207	104.69942	36.32725	9.21009	0.2061760	0.21924447	2.7238527	20	10 4.6	21.0
300704 2007 VP_{94}	16.9	X	17.08879	59.02309	345.07357	1.99637	0.1278588	0.23767589	2.5811463	20	—	—
300705 2007 VP_{99}	16.3	X	333.04921	321.43020	13.77125	6.44549	0.0961216	0.21335888	2.7737175	20	8 17.5	19.6
300706 2007 VM_{100}	15.1	X	72.58250	200.03795	260.08706	8.43437	0.0660953	0.17940043	3.1135348	20	2 28.6	19.5
300707 2007 VY_{101}	16.0	X	344.96431	331.26672	75.16106	15.32190	0.2573858	0.22762020	2.6566164	20	—	—
300708 2007 VX_{102}	17.4	X	106.23687	140.67344	149.15135	2.48198	0.2482493	0.24330794	2.5411591	20	12 27.2	21.7
300709 2007 VU_{108}	16.2	X	29.00661	181.84726	55.02236	11.26674	0.0643142	0.20233036	2.8736156	20	6 27.0	20.0
300710 2007 VJ_{110}	16.4	X	288.50680	144.75613	248.78428	5.07795	0.0619489	0.21480793	2.7612295	20	8 25.9	20.1
300711 2007 VN_{113}	16.5	X	241.50034	243.61277	185.58911	2.43197	0.0572741	0.21098767	2.7944606	20	8 11.7	20.3
300712 2007 VV_{114}	16.1	X	122.86950	328.83689	186.37052	2.63714	0.0534920	0.20158104	2.8807325	20	7 12.9	20.2
300713 2007 VQ_{115}	16.0	X	166.62117	189.11717	224.53711	10.15217	0.0900326	0.19154670	2.9804804	20	4 26.6	20.6
300714 2007 VJ_{117}	16.8	X	334.97889	45.09780	6.33247	2.85455	0.0886643	0.22702023	2.6612950	20	12 3.8	19.9
300715 2007 VO_{117}	16.4	X	11.08233	244.75572	123.50790	3.63690	0.2107137	0.23022094	2.6365712	20	12 21.3	19.4
300716 2007 VP_{117}	16.9	X	39.37618	93.57450	242.57023	11.56052	0.2282053	0.23415128	2.6069840	20	12 20.0	20.6
300717 2007 VC_{120}	16.9	X	319.45039	235.40319	149.27436	2.47069	0.0920684	0.22597599	2.6694872	20	10 3.8	19.9
300718 2007 VH_{120}	17.4	X	266.98382	318.62689	166.12887	1.55152	0.1512767	0.23237768	2.6202322	20	11 18.7	20.3
300719 2007 VG_{121}	17.1	X	238.18296	138.28976	321.65683	3.94437	0.0867928	0.21776986	2.7361351	20	9 13.1	20.9
300720 2007 VS_{121}	16.8	X	284.19120	93.79423	1.11399	3.81506	0.1040872	0.22707447	2.6608712	20	11 8.9	19.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
300721 2007 VW_{124}	16.5	X	59.67016	279.23701	270.15042	1.45791	0.0885125	0.19476191	2.9475875	20	6 11.4	20.2
300722 2007 VC_{125}	16.3	X	79.48157	188.82679	11.71579	1.43049	0.0594117	0.20178990	2.8787444	20	7 19.6	20.3
300723 2007 VD_{125}	16.8	X	50.40595	107.42140	240.30787	3.22278	0.3030823	0.23821481	2.5772519	20	—	—
300724 2007 VP_{125}	16.5	X	273.38470	259.10010	214.39678	12.12177	0.1205277	0.22942533	2.6426631	20	11 17.6	19.6
300725 2007 VP_{132}	16.8	X	95.31169	239.59221	32.59608	11.84934	0.1772590	0.23238664	2.6201648	20	11 20.4	21.0
300726 2007 VW_{132}	18.1	X	254.99817	245.54584	249.46379	1.39666	0.0761075	0.23157817	2.6262595	20	11 25.2	21.5
300727 2007 VW_{133}	16.4	X	0.94307	38.45930	5.77548	13.18658	0.1567088	0.23460946	2.6035887	20	—	—
300728 2007 VV_{137}	15.8	X	189.04998	150.77663	304.45578	11.39093	0.1415383	0.20345251	2.8630395	20	7 11.4	20.3
300729 2007 VK_{141}	17.0	X	281.56620	81.71351	6.77711	1.80980	0.1080020	0.22490395	2.6779635	20	10 26.9	20.3
300730 2007 VF_{142}	16.4	X	184.77702	290.06058	154.98014	2.53989	0.0313730	0.20285163	2.8686906	20	6 25.8	20.5
300731 2007 VR_{142}	16.6	X	301.91064	161.12606	199.36439	4.06506	0.0871083	0.21197712	2.7857581	20	7 29.3	20.2
300732 2007 VP_{144}	16.7	X	306.99274	272.70848	142.65449	2.54246	0.0709622	0.22323431	2.6912998	20	10 26.6	20.0
300733 2007 VE_{145}	16.3	X	270.74450	272.01373	113.82646	3.99376	0.0330890	0.20820849	2.8192728	20	7 27.9	20.1
300734 2007 VH_{147}	16.2	X	0.92140	196.61295	105.74491	4.63463	0.0781612	0.20959370	2.8068373	20	8 15.8	19.6
300735 2007 VL_{147}	16.3	X	331.80640	173.53023	109.17268	3.57541	0.0262393	0.19754459	2.9198416	20	6 4.8	20.2
300736 2007 VX_{148}	17.5	X	34.32705	122.67960	328.16993	2.14829	0.1841569	0.25350099	2.4725758	20	—	—
300737 2007 VY_{148}	17.4	X	105.69578	296.53767	316.21230	2.52626	0.0993246	0.23267390	2.6180078	20	11 2.4	21.3
300738 2007 VP_{155}	16.8	X	22.05170	312.35420	19.06540	5.98265	0.0543927	0.22423083	2.6833202	20	10 24.3	20.2
300739 2007 VZ_{157}	16.8	X	23.02354	180.87183	143.17930	3.50459	0.1153085	0.22365099	2.6879561	20	10 26.6	20.1
300740 2007 VT_{161}	16.4	X	27.43088	285.92364	22.97750	4.20025	0.1047388	0.22001168	2.7175167	20	10 9.3	19.6
300741 2007 VJ_{165}	16.0	X	33.73707	301.33275	236.12523	5.00375	0.0627840	0.18776403	3.0203768	20	4 14.6	19.9
300742 2007 VN_{167}	16.4	X	247.06709	133.90799	290.85075	3.26778	0.0497273	0.21025007	2.8009925	20	8 13.9	20.2
300743 2007 VS_{171}	16.5	X	312.66044	61.45944	20.51213	5.82005	0.1188013	0.23040439	2.6351715	20	12 9.5	19.3
300744 2007 VO_{180}	16.5	X	27.53338	151.56852	184.71207	4.57842	0.0168043	0.22822678	2.6519071	20	11 4.6	20.0
300745 2007 VU_{189}	16.2	X	195.12912	122.70024	26.72225	6.38578	0.0926873	0.21940327	2.7225382	20	9 28.7	20.1
300746 2007 VR_{190}	16.7	X	356.76654	116.42196	228.43038	12.32871	0.1800601	0.22335838	2.6903031	20	10 15.9	19.6
300747 2007 VV_{191}	16.7	X	274.39440	96.94850	306.22323	0.66259	0.2100968	0.20864420	2.8153464	20	7 28.5	20.5
300748 2007 VD_{192}	17.3	X	348.31918	140.46551	287.88826	0.79108	0.1881032	0.22954722	2.6417276	20	—	—
300749 2007 VP_{192}	16.2	X	335.16558	314.69850	89.88166	11.21934	0.2390872	0.22394675	2.6855889	20	12 6.1	18.5
300750 2007 VC_{201}	15.9	X	349.65891	345.52057	217.70734	0.58101	0.1974269	0.18766201	3.0214713	20	3 3.5	19.0
300751 2007 VL_{209}	16.9	X	26.17938	333.40262	329.03166	4.38264	0.0990997	0.21990890	2.7183634	20	9 25.9	20.3
300752 2007 VX_{211}	16.9	X	64.58231	70.25584	187.27224	4.75489	0.0815196	0.21613752	2.7498939	20	9 17.4	20.7
300753 2007 VL_{215}	16.1	X	17.42958	91.53855	248.56423	16.55185	0.1288410	0.22530586	2.6747779	20	11 8.1	19.4
300754 2007 VL_{221}	17.8	X	73.30535	253.85007	40.21988	5.89690	0.2351916	0.23343365	2.6123242	20	12 3.0	22.0
300755 2007 VY_{221}	16.6	X	254.50602	346.28819	96.28456	1.34850	0.0408275	0.21465786	2.7625163	20	9 19.8	20.2
300756 2007 VR_{224}	16.4	X	188.13099	48.92151	186.25296	4.89923	0.1715779	0.24276547	2.5449432	20	12 31.3	20.3
300757 2007 VK_{229}	16.5	X	356.77899	79.99452	249.79426	5.34032	0.0759294	0.21784482	2.7355074	20	9 13.1	19.9
300758 2007 VZ_{229}	16.9	X	248.52690	186.15358	233.52702	3.35364	0.0525045	0.21219631	2.7838393	20	8 8.3	20.9
300759 2007 VC_{234}	17.1	X	29.33349	11.12876	270.35524	3.02226	0.0333560	0.21308856	2.7760628	20	8 23.7	20.7
300760 2007 VP_{235}	16.7	X	338.21192	193.91231	226.66961	3.21365	0.1227592	0.23040216	2.6351885	20	12 25.5	19.7
300761 2007 VE_{237}	16.9	X	53.36272	302.68092	54.85210	4.61945	0.1532972	0.23820298	2.5773373	20	—	—
300762 2007 VR_{238}	16.3	X	298.60717	327.87265	62.89865	9.92044	0.1477807	0.21666608	2.7454199	20	9 4.0	19.6
300763 2007 VN_{240}	17.0	X	23.83652	199.82842	183.64895	8.95030	0.1693469	0.23665748	2.5885460	20	—	—
300764 2007 VV_{242}	16.9	X	1.35036	214.95728	80.32356	5.35441	0.0496068	0.21354272	2.7721254	20	8 5.9	20.4
300765 2007 VL_{244}	16.7	X	300.12064	116.14143	257.56638	5.21933	0.0572354	0.21552358	2.7551136	20	8 16.8	20.3
300766 2007 VX_{244}	16.3	X	202.35228	77.52649	3.58165	1.27892	0.1003553	0.20461928	2.8521455	20	7 8.2	20.7
300767 2007 VU_{247}	15.7	X	332.26458	349.90885	207.88483	16.89628	0.0634012	0.18168394	3.0873914	20	2 9.6	20.2
300768 2007 VE_{251}	16.4	X	332.96530	284.20440	151.42025	5.26685	0.1122748	0.23363113	2.6108519	20	—	—
300769 2007 VT_{251}	16.3	X	312.56462	134.53479	278.12329	10.30214	0.0463066	0.22598469	2.6694187	20	10 28.4	19.8
300770 2007 VW_{251}	16.7	X	10.54410	22.70048	20.95773	9.82456	0.0750251	0.23700656	2.5860037	20	—	—
300771 2007 VN_{257}	15.8	X	81.16024	270.49450	37.74679	10.02133	0.1754723	0.23375934	2.6098972	20	12 22.2	20.0
300772 2007 VO_{257}	17.6	X	312.89614	59.09429	352.89426	3.59587	0.2581545	0.22490321	2.6779694	20	10 17.0	19.8
300773 2007 VV_{258}	15.7	X	70.53531	114.41800	81.88733	14.08456	0.1177162	0.20209839	2.8758141	20	7 10.9	19.6
300774 2007 VH_{261}	17.2	X	126.70575	259.51603	317.70229	2.76796	0.0285876	0.22065101	2.7122649	20	10 5.5	21.1
300775 2007 VN_{261}	16.8	X	248.18604	139.99475	5.54459	3.95781	0.0407495	0.23027307	2.6361733	20	12 3.8	20.3
300776 2007 VA_{269}	16.4	X	340.27715	289.61394	91.89879	7.87675	0.2546249	0.22557856	2.6726218	20	11 16.9	18.6
300777 2007 VU_{276}	16.6	X	230.10040	285.58556	272.24666	6.22244	0.0753581	0.23987851	2.5653216	20	—	—
300778 2007 VT_{279}	16.9	X	334.01765	292.06076	40.23935	3.73898	0.1952630	0.21671553	2.7450022	20	8 9.9	19.4
300779 2007 VM_{285}	16.7	X	294.29930	127.66321	202.51324	1.43279	0.0741643	0.20222395	2.8746236	20	6 9.1	20.6
300780 2007 VY_{285}	16.8	X	256.90088	52.76027	89.53420	3.81759	0.0296815	0.22922247	2.6442221	20	12 13.1	20.2
300781 2007 VW_{286}	16.5	X	281.87281	285.77933	175.23108	12.86902	0.2378680	0.22704643	2.6610902	20	10 29.4	19.4
300782 2007 VX_{286}	15.8	X	276.55432	341.92779	121.13551	12.82036	0.1520039	0.22697611	2.6616398	20	11 8.1	19.2
300783 2007 VF_{287}	16.2	X	292.97053	308.94754	189.30260	13.35893	0.1255151	0.23549194	2.5970801	20	—	—
300784 2007 VL_{299}	16.9	X	327.42255	262.07359	187.66789	12.45427	0.2306679	0.23364842	2.6107231	20	—	—
300785 2007 VN_{303}	15.6	X	346.84143	124.27962	289.85462	12.69498	0.1943026	0.23380116	2.6095860	20	—	—
300786 2007 VF_{309}	16.5	X	242.08547	85.55054	340.91224	5.70056	0.0341086	0.21221730	2.7836557	20	8 14.1	20.3
300787 2007 VA_{312}	16.0	X	203.99997	55.27678	69.12991	4.63590	0.0443024	0.21304368	2.7764527	20	9 11.5	19.9
300788 2007 VG_{315}	16.4	X	282.72608	358.21953	57.97918	5.87137	0.0307661	0.21710801	2.7416930	20	9 27.2	20.1
300789 2007 VN_{315}	16.6	X	343.61657	94.89186	242.79061	5.28448	0.0114347	0.21254546	2.7807898	20	9 1.4	20.4
300790 2007 VF_{318}	16.9	X	333.81259	26.65143	296.25654	4.87174	0.0475213	0.21248919	2.7812807	20	7 31.1	20.2
300791 2007 VF_{321}	16.1	X	22.62613	233.53906	76.52918	10.20594	0.0981053	0.21879270	2.7276010	20	10 7.9	19.6
300792 2007 VN_{321}	16.4	X	232.40550	283.64522	142.32484	4.27924	0.0830376	0.20782276	2.8227601	20	7 23.9	20.4
300793 2007 VX_{321}	16.0	X	20.95326	334.57872	359.66266	13.61414	0.2664808	0.22954804	2.6417212	20	11 25.7	19.5
300794 2007 VU_{323}	17.1	X	349.93942	211.26882	167.95324	3.58970	0.2699029	0.22806504	2.6531608	20	12 7.9	19.4
300795 2007 VM_{331}	16.6	X	53.62940	277.30073	60.05967	5.86127	0.2221128	0.23357966	2.6112354	20	—	—
300796 2007 VR_{331}	17.0	X	270.65956	303.74081	106.60080	4.96636	0.0926485	0.21361905	2.7714650	20	8 22.5	20.6
300797 2007 VT_{331}	16.1	X	266.66416	286.64598	109.94230	4.71824	0.0965323	0.20979637	2.8050293	20	7 27.3	19.9
300798 2007 VV_{331}	16.0	X	12.79934	235.16413	314.76597	2.11701	0.1037380	0.17678326	3.1441888	20	4 1.5	19.7
300799 2007 VZ_{331}	15.0	X	337.66662	130.65927	93.16044	17.45873	0.0065480	0.17802862	3.1295087	20	4 9.3	19.7
300800 2007 VB_{332}	16.8	X	39.27095	36.53575	333.16143	4.14955	0.3016825	0.23699392	2.5860956	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
300801 2007 VC_{332}	17.1	X	287.42846	68.31907	23.93816	7.98204	0.2249111	0.22398157	2.6853106	20	10 24.9	19.9
300802 2007 WJ	17.0	X	46.33721	11.98972	1.21159	1.36745	0.1848852	0.23900598	2.5715612	20	—	—
300803 2007 WK_{1}	16.4	X	214.29790	106.18545	7.25523	4.58399	0.0792311	0.21542689	2.7559380	20	9 4.8	20.4
300804 2007 WB_{2}	16.7	X	256.66686	50.10865	30.42479	5.23995	0.0927850	0.21735367	2.7396267	20	9 13.8	20.3
300805 2007 WY_{5}	16.6	X	327.77858	21.99111	4.63901	8.23934	0.0813482	0.22416696	2.6838299	20	10 17.3	19.9
300806 2007 WU_{6}	16.7	X	349.67007	16.43378	36.50146	9.22165	0.1371511	0.23312597	2.6146222	20	—	—
300807 2007 WW_{6}	16.6	X	7.80419	298.14494	38.49667	7.49383	0.2300605	0.22549761	2.6732614	20	11 4.2	19.4
300808 2007 WM_{12}	16.3	X	318.57303	297.78788	98.83795	10.94098	0.1183868	0.22355221	2.6887478	20	10 22.5	19.5
300809 2007 WJ_{13}	16.6	X	142.30359	307.87889	175.17074	6.95798	0.1495416	0.19887457	2.9068093	20	6 30.4	21.3
300810 2007 WZ_{14}	16.3	X	335.89263	293.09922	81.12909	5.91964	0.0650238	0.22097485	2.7096144	20	10 17.2	19.7
300811 2007 WN_{21}	16.8	X	293.53451	77.59766	17.44971	8.61681	0.0624186	0.23002420	2.6380743	20	11 27.4	20.1
300812 2007 WE_{22}	16.3	X	133.38351	237.89769	29.17275	13.87208	0.0349639	0.23463329	2.6034124	20	12 18.3	20.2
300813 2007 WA_{24}	16.1	X	24.51074	233.03442	67.47736	11.76856	0.0878602	0.21903145	2.7256185	20	9 27.7	19.7
300814 2007 WG_{24}	16.8	X	291.33868	215.98200	190.44787	4.58614	0.1145598	0.21969392	2.7201364	20	9 12.3	20.0
300815 2007 WD_{36}	16.4	X	161.15086	148.26135	12.77433	4.04279	0.0402394	0.21174127	2.7878263	20	9 6.1	20.4
300816 2007 WF_{36}	16.4	X	261.22561	115.27406	302.51945	5.67384	0.0334431	0.21308535	2.7760908	20	8 25.4	20.2
300817 2007 WY_{43}	16.8	X	321.61662	347.66821	344.50352	3.96786	0.2108159	0.21226193	2.7832655	20	7 9.2	19.7
300818 2007 WJ_{44}	16.5	X	131.81166	108.83467	13.25291	1.03369	0.1346356	0.18613515	3.0379722	20	6 17.9	21.3
300819 2007 WD_{46}	16.6	X	31.28184	8.84910	284.65114	7.11229	0.2134550	0.22083821	2.7107319	20	10 7.1	20.1
300820 2007 WV_{52}	16.8	X	131.29938	208.95916	17.02163	2.74334	0.0422742	0.22263827	2.6961011	20	10 24.1	20.6
300821 2007 WH_{55}	16.6	X	31.11887	89.45315	270.47352	1.93203	0.2197163	0.23455596	2.6039846	20	—	—
300822 2007 WE_{56}	15.7	X	224.77272	9.17974	103.83666	10.37708	0.1138044	0.21017538	2.8016560	20	9 15.4	19.9
300823 2007 WJ_{61}	16.2	X	351.36266	61.10559	335.56712	8.33702	0.0695354	0.22966090	2.6408557	20	12 8.1	19.5
300824 2007 XR_{3}	16.4	X	351.66715	133.88344	271.55068	11.03194	0.2929060	0.22936854	2.6430993	20	—	—
300825 2007 XL_{9}	15.9	X	253.06467	271.80769	69.21061	5.73440	0.0214640	0.18918577	3.0052255	20	5 8.7	20.1
300826 2007 XJ_{13}	15.4	X	179.68927	133.13468	268.87854	9.02743	0.1066921	0.19075786	2.9886915	20	4 23.7	20.2
300827 2007 XT_{17}	16.2	X	303.39831	114.29286	287.58175	4.85702	0.0368283	0.21752689	2.7381721	20	9 30.7	19.8
300828 2007 XE_{20}	16.3	X	314.17225	168.61901	263.53113	3.60903	0.0801499	0.22641616	2.6660263	20	11 28.5	19.2
300829 2007 XQ_{20}	16.6	X	347.10712	328.02251	71.72691	3.59067	0.1345367	0.22755131	2.6571525	20	12 12.5	19.5
300830 2007 XK_{22}	16.8	X	280.35000	24.96056	40.97164	2.53312	0.2354562	0.21757542	2.7377650	20	9 4.3	20.1
300831 2007 XE_{25}	16.5	X	299.34178	286.52077	100.10664	6.53739	0.1430687	0.21649171	2.7468938	20	8 27.7	19.7
300832 2007 XV_{28}	16.5	X	63.62497	356.85265	277.58606	2.97545	0.0276572	0.21495121	2.7600024	20	9 28.9	20.2
300833 2007 XJ_{30}	16.8	X	259.63051	61.30533	85.61486	12.85209	0.1502011	0.22767985	2.6561524	20	12 6.3	20.1
300834 2007 XS_{32}	15.4	X	262.69723	53.66764	335.70476	14.27959	0.1487791	0.19533386	2.9418308	20	7 6.4	19.8
300835 2007 XQ_{33}	15.8	X	330.93367	313.92734	72.14970	19.97586	0.1679811	0.22213984	2.7001326	20	11 1.8	18.8
300836 2007 XX_{34}	16.7	X	324.89805	185.51871	267.88060	10.92583	0.1513600	0.23307957	2.6149692	20	—	—
300837 2007 XA_{35}	16.3	X	14.45272	84.67298	288.92111	6.19184	0.2077080	0.23168733	2.6254346	20	—	—
300838 2007 XL_{36}	15.6	X	346.97651	65.44307	284.21954	12.73378	0.0923138	0.21639666	2.7476981	20	9 20.3	19.2
300839 2007 XZ_{38}	16.4	X	301.03872	69.94458	336.91720	4.21108	0.1611969	0.21676624	2.7445741	20	9 22.4	19.4
300840 2007 XT_{42}	15.9	X	84.85051	237.58680	272.02081	8.57374	0.0225259	0.19121837	2.9838912	20	5 13.1	20.1
300841 2007 XW_{47}	15.9	X	63.57323	190.01857	308.54463	2.80349	0.1313959	0.17895744	3.1186708	20	4 16.5	20.0
300842 2007 XA_{50}	16.1	X	43.58139	228.49559	285.01094	6.17463	0.1262572	0.17604829	3.1529337	20	4 2.9	20.1
300843 2007 XP_{53}	16.6	X	259.35542	46.75222	1.00760	2.14774	0.1453009	0.20357197	2.8619194	20	7 25.1	20.6
300844 2007 XT_{54}	16.3	X	317.42822	250.88108	84.27990	6.00555	0.1474313	0.20853822	2.8163001	20	7 13.1	19.4
300845 2007 YH_{3}	16.4	X	40.51545	51.51359	240.78742	2.55327	0.0296768	0.21416928	2.7667161	20	9 22.3	20.1
300846 2007 YU_{9}	15.4	X	216.23392	243.39306	75.88315	10.58783	0.0754660	0.17443535	3.1723399	20	3 1.6	20.4
300847 2007 YV_{13}	16.2	X	246.96109	318.72865	74.27601	9.05128	0.1586298	0.19974362	2.8983719	20	6 18.7	20.6
300848 2007 YX_{14}	15.8	X	253.82693	96.66826	54.52394	15.28619	0.1049951	0.22374837	2.6871761	20	12 6.7	19.4
300849 2007 YP_{17}	15.8	X	299.01414	61.26645	264.40534	10.38700	0.1412836	0.20218033	2.8750371	20	5 30.3	19.6
300850 2007 YX_{18}	15.7	X	280.10100	15.69490	261.07332	6.02165	0.0336666	0.18108769	3.0941647	20	3 17.4	20.2
300851 2007 YD_{25}	16.7	X	353.69372	147.65834	202.20623	6.46625	0.0783415	0.21889420	2.7267577	20	10 8.8	19.8
300852 2007 YR_{30}	16.3	X	252.83873	113.21012	328.40277	2.57522	0.0633811	0.21360120	2.7716194	20	9 11.4	20.0
300853 2007 YR_{31}	16.0	X	246.15300	132.45925	312.57963	3.06826	0.0738896	0.20904775	2.8117220	20	9 4.7	19.9
300854 2007 YV_{31}	15.6	X	84.93067	198.32377	274.33088	7.93764	0.0483603	0.17789610	3.1310627	20	3 28.9	20.1
300855 2007 YZ_{33}	16.4	X	86.42863	186.73885	313.48399	5.20634	0.1118803	0.18761704	3.0219541	20	5 16.2	20.7
300856 2007 YP_{36}	15.6	X	324.11318	200.12256	99.03420	11.22091	0.0822485	0.19323831	2.9630608	20	6 11.0	19.3
300857 2007 YW_{37}	15.6	X	234.48644	252.23974	93.46788	12.17150	0.1400456	0.18751134	3.0230897	20	4 16.3	20.5
300858 2007 YD_{43}	15.4	X	129.76037	141.90561	308.48419	15.09221	0.2538371	0.18285950	3.0741451	20	5 13.6	20.8
300859 2007 YP_{45}	15.8	X	236.11886	64.27206	293.65441	6.99484	0.1197949	0.18591480	3.0403721	20	4 25.8	20.6
300860 2007 YW_{46}	16.1	X	217.53692	263.01901	118.67020	5.57310	0.0428001	0.18507881	3.0495207	20	5 15.8	20.6
300861 2007 YJ_{51}	16.4	X	87.66291	117.28302	109.74317	3.20439	0.0099383	0.20313887	2.8659858	20	8 27.8	20.4
300862 2007 YS_{68}	15.7	X	253.09986	165.85718	109.72008	4.37856	0.1414765	0.16690524	3.2670522	20	2 8.2	20.8
300863 2007 YA_{69}	16.9	X	198.58616	183.66309	320.04246	3.52836	0.0707982	0.21100040	2.7943483	20	9 23.2	21.0
300864 2007 YM_{69}	16.5	X	178.69468	326.25897	130.14689	3.21514	0.0430105	0.19478831	2.9473211	20	7 2.7	20.7
300865 2007 YR_{71}	15.4	X	195.12796	214.36498	166.72179	18.70067	0.1659365	0.17825686	3.1268368	20	4 19.6	20.7
300866 2007 YC_{72}	15.2	X	45.59177	250.84535	261.32920	7.90290	0.0285179	0.17513592	3.1638744	20	3 25.3	19.7
300867 2008 AR_{4}	16.3	X	228.98630	108.72197	11.42213	7.65284	0.1800974	0.21076180	2.7964568	20	9 18.1	20.4
300868 2008 AN_{11}	15.9	X	171.58952	275.70226	142.13064	6.34283	0.1243406	0.18588836	3.0406604	20	5 10.5	20.8
300869 2008 AA_{13}	16.0	X	184.17790	126.33059	284.98363	13.05792	0.0762349	0.18654971	3.0334697	20	5 9.7	20.9
300870 2008 AS_{24}	15.9	X	71.73301	154.38609	352.31973	5.39063	0.0667317	0.17706124	3.1408971	20	4 28.5	20.3
300871 2008 AT_{27}	15.9	X	55.50073	54.98531	128.51846	3.78041	0.0675479	0.17705139	3.1410137	20	5 26.6	20.1
300872 2008 AV_{29}	16.4	X	249.37995	80.85912	16.05153	4.78129	0.1327368	0.21331860	2.7740667	20	9 18.2	20.1
300873 2008 AD_{32}	16.4	X	137.49160	305.50017	128.17627	4.67121	0.1526881	0.18231270	3.0802888	20	4 28.5	21.3
300874 2008 AV_{54}	16.5	X	267.58559	268.87293	116.49067	4.17450	0.0860181	0.19908289	2.9047812	20	7 14.1	20.4
300875 2008 AM_{65}	16.3	X	10.85956	315.98051	228.30398	3.95906	0.1073792	0.17189538	3.2035137	20	3 22.1	20.1
300876 2008 AT_{74}	16.3	X	226.51456	111.48329	262.29551	4.97254	0.1198872	0.18829853	3.0146584	20	5 7.2	21.0
300877 2008 AO_{78}	15.4	X	278.70298	339.49466	318.71167	10.16406	0.0415510	0.17983152	3.1085570	20	4 8.2	20.0
300878 2008 AX_{78}	16.0	X	175.29401	107.53001	292.37652	11.10869	0.0645592	0.18104137	3.0946924	20	4 13.6	20.9
300879 2008 AE_{87}	15.3	X	186.44105	283.56811	107.16574	17.08200	0.1372316	0.18636620	3.0354607	20	4 27.5	20.5
300880 2008 AM_{92}	15.5	X	190.87886	43.84428	326.70905	9.87771	0.0365814	0.17880570	3.1204350	20	3 27.0	20.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
300881 2008 AO_{96}	15.8	X	181.43490	100.41277	327.24219	12.07004	0.0315318	0.18696079	3.0290215	20	5 27.7	20.4
300882 2008 AU_{96}	16.1	X	190.15330	322.10521	21.96412	5.82295	0.1603978	0.17230592	3.1984232	20	3 2.3	21.3
300883 2008 AT_{116}	16.6	X	208.10496	216.44840	178.03970	1.81282	0.0905316	0.18602660	3.0391538	20	5 17.0	21.2
300884 2008 AJ_{118}	15.8	X	89.08497	202.97281	346.49597	8.68596	0.0253970	0.19196596	2.9761391	20	7 13.4	20.0
300885 2008 AJ_{136}	15.3	X	359.22538	195.52131	21.65248	13.15650	0.0113541	0.17714135	3.1399501	20	4 17.6	19.7
300886 2008 AT_{136}	16.2	X	76.86837	312.58718	160.77813	7.66809	0.1394648	0.17447001	3.1719198	20	4 7.8	20.5
300887 2008 AH_{137}	15.1	X	163.57925	231.50580	172.34815	16.07580	0.0882488	0.17686943	3.1431675	20	4 15.1	20.0
300888 2008 AM_{137}	15.9	X	103.78786	23.53716	123.24610	11.46235	0.0586164	0.18296543	3.0729584	20	6 10.8	20.4
300889 2008 BL_{5}	15.6	X	145.88821	17.12534	59.05632	9.93718	0.0546495	0.18179461	3.0861382	20	5 2.1	20.1
300890 2008 BC_{12}	15.9	X	197.92269	96.79584	307.06836	9.80168	0.0751647	0.18684101	3.0303159	20	5 15.4	20.7
300891 2008 BO_{13}	15.5	X	242.87956	23.01672	292.93103	10.74543	0.0077795	0.17635842	3.1492363	20	3 21.3	20.3
300892 Taichung	16.4	X	56.76779	21.69587	145.94364	1.28845	0.1039899	0.17942876	3.1132071	20	5 12.2	20.3
300893 2008 BY_{16}	15.6	X	86.53364	202.49934	311.29081	8.01744	0.0761037	0.18354250	3.0665140	20	5 28.9	20.0
300894 2008 BB_{18}	15.9	X	125.23464	122.08882	323.20710	13.95451	0.1962770	0.17850015	3.1239950	20	4 26.5	21.1
300895 2008 BW_{23}	15.9	X	221.71396	44.25025	357.08083	9.81930	0.0980991	0.18994145	2.9972494	20	6 6.7	20.6
300896 2008 BF_{24}	15.3	X	84.57882	156.12812	333.25158	15.64455	0.0513868	0.17853506	3.1235877	20	4 15.1	19.9
300897 2008 BQ_{24}	15.3	X	227.06241	57.32732	298.90218	20.75854	0.0826374	0.18167460	3.0874972	20	4 9.3	20.5
300898 2008 BC_{25}	15.7	X	150.12733	302.03385	128.76706	10.39771	0.0676665	0.18318720	3.0704779	20	5 3.7	20.4
300899 2008 BX_{30}	15.9	X	126.69813	127.46331	315.18286	5.83438	0.1475262	0.17780984	3.1320753	20	4 23.9	20.8
300900 2008 BX_{32}	16.5	X	104.41418	117.13855	333.96694	6.54374	0.1282993	0.17178290	3.2049119	20	4 8.2	21.3
300901 2008 BH_{33}	15.7	X	148.07312	105.97031	338.61139	15.14737	0.1965892	0.18132415	3.0914742	20	5 17.5	21.1
300902 2008 BE_{34}	16.1	X	220.14542	87.35236	349.55941	11.24169	0.1245454	0.19551944	2.9399690	20	7 22.5	20.7
300903 2008 BX_{38}	15.2	X	2.67737	144.10712	357.89123	9.61634	0.1248077	0.15323033	3.4586469	20	1 23.1	19.6
300904 2008 BL_{39}	15.5	X	345.83531	244.56631	344.35072	9.38301	0.0261163	0.17873748	3.1212290	20	4 11.6	19.8
300905 2008 BZ_{40}	16.0	X	178.30323	248.07841	182.40685	10.60679	0.0740843	0.18822028	3.0154938	20	5 31.5	20.7
300906 2008 BQ_{41}	15.5	X	104.33442	143.37070	334.59587	12.57633	0.1466289	0.17992596	3.1074692	20	5 11.4	20.3
300907 2008 BJ_{42}	15.1	X	69.57152	106.17472	15.59496	8.21081	0.0439796	0.17131132	3.2107908	20	3 25.7	19.4
300908 2008 BV_{43}	16.4	X	165.98386	295.02759	169.13127	7.12787	0.1186035	0.19099687	2.9861976	20	6 28.7	21.2
300909 Kenthompson	15.7	X	142.17860	252.14917	168.85775	9.64437	0.0836831	0.17577617	3.1561870	20	4 12.5	20.4
300910 2008 BF_{48}	15.9	X	317.22308	286.26759	8.86945	10.16828	0.0324098	0.18628946	3.0362943	20	5 28.6	20.2
300911 2008 BG_{48}	16.0	X	173.58872	295.50204	83.95441	3.18658	0.0958137	0.17570715	3.1570135	20	3 26.4	20.8
300912 2008 BC_{50}	16.3	X	61.87318	215.54153	330.00106	8.16171	0.0685302	0.18400831	3.0613366	20	6 5.4	20.6
300913 2008 CL	16.5	X	1.15022	39.56663	18.32974	13.74927	0.2608765	0.23234914	2.6204467	20	—	—
300914 2008 CS_{3}	15.9	X	223.62567	72.99992	338.48550	17.10877	0.1860878	0.19169246	2.9789693	20	6 15.9	21.0
300915 2008 CQ_{10}	15.9	X	118.16954	309.82527	163.57090	11.28511	0.2477204	0.18186154	3.0853810	20	6 5.4	21.1
300916 2008 CM_{16}	16.3	X	163.57883	290.45339	159.84433	6.02674	0.1389692	0.18489306	3.0515627	20	6 10.4	21.2
300917 2008 CO_{16}	16.2	X	43.69967	237.01870	307.93844	1.55256	0.0103722	0.17641914	3.1485137	20	5 4.6	20.5
300918 2008 CU_{16}	16.2	X	159.08346	286.11766	155.91852	5.53849	0.1393855	0.18215213	3.0820987	20	5 27.6	21.2
300919 2008 CX_{16}	16.8	X	134.79161	308.31301	145.16595	3.46361	0.1872788	0.17996981	3.1069643	20	5 21.6	21.8
300920 2008 CA_{28}	15.8	X	118.69703	95.89803	357.88763	6.18840	0.0337607	0.17679880	3.1440046	20	4 16.7	20.3
300921 2008 CC_{29}	15.5	X	115.35299	149.40912	327.37281	9.68485	0.0318024	0.18140577	3.0905468	20	5 9.1	20.1
300922 2008 CU_{36}	15.6	X	67.30338	255.13637	163.71628	9.92669	0.0535215	0.15557075	3.4238711	20	1 8.9	20.4
300923 2008 CA_{54}	15.7	X	195.64979	223.87647	152.48200	11.27875	0.0974315	0.17860791	3.1227383	20	4 15.2	20.6
300924 2008 CR_{54}	16.5	X	143.39655	198.64679	245.58669	4.07938	0.1095968	0.18292961	3.0733596	20	5 11.7	21.1
300925 2008 CO_{68}	15.4	X	108.88090	320.52163	122.77968	13.49742	0.0715071	0.17028305	3.2237036	20	4 4.9	20.2
300926 2008 CJ_{69}	16.8	X	268.48645	87.01434	356.89413	14.25410	0.2864413	0.21348454	2.7726290	20	9 4.4	20.5
300927 2008 CE_{71}	16.0	X	254.80337	228.37278	225.63236	7.26865	0.1993964	0.21021341	2.8013182	20	9 6.9	20.2
300928 Uderzo	16.4	X	228.49965	172.88097	205.27646	0.95521	0.0469581	0.18395096	3.0619729	20	5 22.3	20.7
300929 2008 CU_{73}	15.4	X	123.23638	104.49510	349.43758	15.64033	0.0573989	0.17657219	3.1466940	20	4 20.3	20.3
300930 2008 CQ_{77}	15.7	X	126.13579	119.96242	349.63055	9.17509	0.0613697	0.18153952	3.0890286	20	5 17.3	20.4
300931 2008 CS_{97}	15.9	X	219.53051	253.44029	101.20175	3.25101	0.1104785	0.17603390	3.1531056	20	4 10.6	20.9
300932 Kyslyuk	15.5	X	290.67471	294.02940	151.33040	13.06059	0.1831230	0.21489321	2.7604989	20	10 30.3	18.8
300933 2008 CG_{118}	15.6	X	207.50084	219.07573	172.91964	10.67586	0.1140916	0.18389530	3.0625907	20	5 14.2	20.5
300934 2008 CS_{119}	15.8	X	14.82660	208.10720	355.54539	4.24918	0.0433959	0.17511170	3.1641661	20	4 21.1	19.9
300935 2008 CH_{125}	15.4	X	313.48310	280.09917	295.09064	12.65860	0.1263754	0.16952538	3.2333017	20	2 2.6	19.8
300936 2008 CE_{129}	15.6	X	153.27555	87.15038	313.63039	7.65589	0.0244256	0.17095094	3.2153017	20	3 21.3	20.4
300937 2008 CR_{131}	16.6	X	124.03319	306.02718	145.11321	5.49213	0.1557471	0.17737527	3.1371889	20	5 6.8	21.5
300938 2008 CF_{135}	16.4	X	179.04158	66.67046	301.29715	4.16406	0.1365202	0.17295356	3.1904336	20	3 15.9	21.5
300939 2008 CD_{138}	16.0	X	30.23401	40.81578	123.07522	5.40621	0.0308037	0.16825342	3.2495766	20	3 26.8	20.4
300940 2008 CQ_{140}	16.4	X	110.11325	296.65398	165.06528	3.70526	0.1645945	0.17471483	3.1689559	20	5 5.6	21.1
300941 2008 CE_{155}	15.5	X	214.94692	285.10334	133.49418	16.78573	0.1956264	0.19149711	2.9809949	20	6 17.9	20.7
300942 2008 CM_{168}	16.4	X	226.43101	82.80965	322.90949	1.11875	0.0672471	0.20255168	2.8715220	20	6 22.2	20.4
300943 2008 CT_{175}	15.8	X	200.56866	313.72649	114.42084	11.63303	0.0860352	0.18915577	3.0055433	20	6 20.5	20.4
300944 2008 CC_{176}	15.5	X	85.77724	123.76863	352.21197	17.26664	0.0926875	0.17317238	3.1877455	20	4 7.9	20.1
300945 2008 CM_{177}	15.8	X	130.58669	83.96811	343.16142	12.45974	0.1468496	0.17434411	3.1734466	20	4 7.1	20.9
300946 2008 CC_{179}	15.5	X	69.22477	153.46911	23.00477	12.18562	0.0814544	0.18032832	3.1028451	20	6 4.1	19.9
300947 2008 CP_{183}	15.5	X	187.81501	280.59990	111.97329	11.12135	0.0874138	0.17711637	3.1402454	20	4 28.4	20.5
300948 2008 CV_{184}	15.2	X	96.14141	238.53848	245.67836	25.34219	0.2665469	0.17701662	3.1414249	20	5 29.4	20.1
300949 2008 CM_{185}	15.6	X	210.53109	74.08035	324.41411	7.15533	0.0827563	0.18769683	3.0210976	20	5 22.8	20.2
300950 2008 CJ_{193}	16.4	X	193.31246	245.56137	169.24104	11.38462	0.1406005	0.18445913	3.0563466	20	5 27.2	21.5
300951 2008 CK_{193}	16.0	X	161.45096	255.09674	179.50415	6.41255	0.1331176	0.17867192	3.1219924	20	5 20.7	21.1
300952 2008 CS_{194}	16.1	X	151.12413	237.07014	196.45511	5.00833	0.1675803	0.17614879	3.1517343	20	5 10.9	21.3
300953 2008 CS_{203}	15.8	X	312.07225	80.71857	174.57720	4.67328	0.0944000	0.17131616	3.2107304	20	3 27.3	20.1
300954 2008 CY_{209}	16.1	X	179.63471	263.87031	167.96116	10.76291	0.1309564	0.18639165	3.0351844	20	6 3.8	21.1
300955 2008 DR_{1}	15.9	X	141.19636	98.77106	318.48298	8.73642	0.0829601	0.17609620	3.1523618	20	3 31.7	20.8
300956 2008 DA_{7}	16.4	X	223.42676	231.43422	147.73077	5.21908	0.1036718	0.18627653	3.0364348	20	5 14.5	21.0
300957 2008 DN_{11}	16.1	X	204.38050	75.10296	328.97627	8.65163	0.0940047	0.18671687	3.0316590	20	5 22.2	20.9
300958 2008 DH_{13}	15.6	X	144.23575	99.99437	359.52597	10.94718	0.1334642	0.18117451	3.0931761	20	5 30.9	20.7
300959 2008 DF_{24}	15.4	X	18.28959	167.64670	333.59086	14.68371	0.0647416	0.16036563	3.3552781	20	2 13.3	19.7
300960 2008 DR_{29}	15.8	X	190.89494	54.51025	339.22316	14.62486	0.1460653	0.17881035	3.1203810	20	4 20.9	21.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
300961 2008 DQ_{33}	15.3	X	62.08234	129.01013	21.76819	9.63030	0.0309713	0.17414886	3.1758182	20	4 17.6	19.7
300962 2008 DU_{33}	15.1	X	81.54649	118.33508	12.10440	12.40703	0.0395880	0.17395971	3.1781198	20	4 16.8	19.6
300963 2008 DH_{48}	15.7	X	90.64169	116.43041	1.31846	10.84246	0.1334846	0.17161772	3.2069681	20	4 24.7	20.3
300964 2008 DP_{51}	16.2	X	296.29420	79.01340	352.99221	10.98175	0.1519866	0.21640259	2.7476479	20	10 17.4	19.5
300965 2008 DM_{52}	16.0	X	147.43728	284.97501	195.21497	17.01428	0.2120552	0.18348836	3.0671172	20	7 2.5	21.5
300966 2008 DH_{71}	15.9	X	94.19411	120.59890	1.01686	14.79325	0.0941797	0.17548519	3.1596749	20	4 26.3	20.6
300967 2008 DQ_{83}	16.3	X	92.87987	287.55739	201.66347	12.94876	0.2713247	0.17393009	3.1784806	20	6 2.7	21.3
300968 2008 EN_{3}	15.1	X	216.71149	259.15578	19.32372	10.22881	0.1272853	0.15450427	3.4396088	20	1 13.1	20.7
300969 2008 EJ_{19}	15.9	X	147.42905	99.85078	345.70149	11.75955	0.0882598	0.18431776	3.0579092	20	5 12.1	20.7
300970 2008 EQ_{29}	15.3	X	182.53930	252.34461	188.11267	16.96258	0.2146464	0.18094861	3.0957500	20	6 14.9	20.9
300971 2008 EQ_{38}	15.2	X	103.55047	61.79916	35.79736	10.22420	0.0643785	0.16889864	3.2412954	20	4 11.1	19.7
300972 2008 EY_{45}	15.3	X	163.09911	209.69776	209.40895	17.51166	0.2126950	0.17336953	3.1853283	20	5 5.9	20.7
300973 2008 EW_{50}	15.8	X	94.48478	321.43688	188.87196	11.83115	0.1710536	0.17868709	3.1218158	20	6 17.6	20.6
300974 2008 EH_{83}	15.4	X	128.32843	263.00254	180.85548	16.42287	0.1931241	0.17732631	3.1377663	20	5 6.3	20.6
300975 2008 EM_{83}	15.7	X	141.74183	252.72066	193.86244	12.94040	0.1462720	0.17942532	3.1132468	20	5 17.5	20.7
300976 2008 ER_{85}	15.6	X	180.47842	62.06684	3.36192	7.72832	0.1327618	0.18084425	3.0969409	20	5 24.3	20.6
300977 2008 EE_{91}	15.5	X	81.31900	276.07755	200.21650	25.13699	0.2454969	0.17223258	3.1993310	20	5 2.1	20.1
300978 2008 ED_{98}	15.2	X	86.60189	302.80440	172.15550	26.99581	0.3192564	0.17656577	3.1467703	20	5 18.7	20.4
300979 2008 EZ_{103}	15.0	X	119.57780	88.97867	23.82370	21.15499	0.2372059	0.17412911	3.1760582	20	5 28.8	20.5
300980 2008 ED_{108}	15.3	X	86.08014	295.11814	190.39766	28.03903	0.1237080	0.17390919	3.1787353	20	5 2.6	20.0
300981 2008 EU_{130}	16.5	X	121.21076	9.95980	88.68157	4.02942	0.2414065	0.17622835	3.1507857	20	5 19.8	21.7
300982 2008 EJ_{133}	15.6	X	222.14159	175.73501	194.19839	10.84306	0.1169946	0.17897923	3.1184178	20	4 30.8	20.5
300983 2008 EK_{138}	15.9	X	116.34889	272.82153	189.67448	17.71551	0.1885928	0.17544768	3.1601252	20	5 16.4	21.0
300984 2008 ES_{163}	15.7	X	120.94138	126.98568	357.52005	4.79368	0.1031988	0.17868182	3.1218771	20	6 5.8	20.4
300985 2008 FB_{1}	15.6	X	68.62859	326.26421	160.02097	7.07822	0.0284278	0.16806561	3.2519971	20	3 28.8	20.1
300986 2008 FL_{1}	14.8	X	226.57161	351.43837	151.75900	7.85953	0.0807717	0.12649138	3.9303276	20	10 14.3	20.6
300987 2008 FT_{8}	15.8	X	205.04785	247.97324	147.97442	9.43577	0.1204252	0.18199890	3.0838284	20	5 16.7	20.8
300988 2008 FW_{11}	16.0	X	148.07661	71.32146	347.56087	4.63876	0.1307687	0.17514243	3.1637960	20	4 16.1	21.0
300989 2008 FK_{16}	15.9	X	155.66733	238.51049	164.82322	4.74886	0.1630250	0.17158239	3.2074082	20	4 9.5	21.1
300990 2008 FN_{29}	15.9	X	117.33824	289.82645	172.85904	11.13026	0.0699403	0.17592106	3.1544537	20	5 4.9	20.6
300991 2008 FF_{41}	14.2	X	306.94644	210.19234	76.88652	6.24777	0.2090735	0.08254427	5.2240993	20	4 19.8	20.8
300992 2008 FB_{62}	16.1	X	131.92208	139.15722	345.03434	9.93017	0.1407562	0.18260118	3.0770437	20	6 21.4	21.0
300993 2008 FP_{117}	13.0	X	293.95910	267.60463	32.62837	15.28920	0.1570675	0.08129671	5.2774089	20	4 23.2	19.7
300994 2008 FS_{134}	14.7	X	257.10603	274.81322	216.60424	7.91132	0.1261470	0.12456644	3.9707147	20	10 25.5	20.4
300995 2008 GJ_{20}	15.0	X	302.98196	195.25888	81.07663	24.06993	0.0966993	0.18563365	3.0434412	20	4 21.8	19.6
300996 2008 GG_{21}	15.4	X	89.59479	108.76402	16.89377	18.62198	0.1306896	0.16963687	3.2318849	20	5 1.2	20.1
300997 2008 GM_{23}	15.7	X	221.84586	276.67384	160.09719	8.38361	0.1804661	0.18876011	3.0097417	20	7 14.9	20.6
300998 2008 GF_{34}	15.6	X	135.12712	253.97459	194.71196	16.44702	0.1526394	0.17319081	3.1875193	20	5 14.4	20.7
300999 2008 GP_{49}	13.5	X	265.99888	118.13730	195.25158	13.25960	0.0080805	0.08249468	5.2261926	20	4 26.8	20.4
301000 2008 GG_{69}	13.8	X	140.93246	302.97261	149.92083	5.76314	0.0327331	0.08369796	5.1759825	20	5 17.1	20.8
301001 2008 GE_{92}	15.6	X	163.34577	70.30151	31.13121	17.25458	0.2303435	0.18110605	3.0939556	20	6 24.1	21.2
301002 2008 GQ_{98}	13.2	X	19.22356	16.44715	198.30567	12.80317	0.1346646	0.08291077	5.2086931	20	5 20.9	19.6
301003 2008 GU_{98}	15.9	X	293.47255	68.95976	28.92711	13.86925	0.1360247	0.22428203	2.6829118	20	11 21.9	19.0
301004 2008 GH_{117}	15.5	X	150.32575	263.31662	195.02435	15.40333	0.2305143	0.17511261	3.1641551	20	6 11.3	21.1
301005 2008 GL_{117}	13.3	X	345.86806	48.16945	202.81017	22.35616	0.0510198	0.08433095	5.1500494	20	5 15.5	20.0
301006 2008 GH_{120}	15.0	X	177.70017	246.90097	178.06706	26.43074	0.2154557	0.17833938	3.1258722	20	5 26.0	20.8
301007 2008 GM_{140}	13.9	X	261.44127	123.84370	218.10357	19.10864	0.0897562	0.08291727	5.2084206	20	5 13.0	20.9
301008 2008 GK_{141}	14.1	X	269.81364	107.81613	224.84275	9.45957	0.0588776	0.08286511	5.2106062	20	5 15.4	21.0
301009 2008 GS_{141}	13.9	X	343.21770	128.99453	128.89409	5.16317	0.0778774	0.08227243	5.2356005	20	5 19.1	20.5
301010 2008 HB_{61}	13.2	X	288.56659	104.21757	201.69673	27.10989	0.0635199	0.08026236	5.3226521	20	5 6.6	20.2
301011 2008 JO	18.4	X	218.00557	194.78563	276.89083	5.36775	0.5455085	0.53178638	1.5088448	20	8 12.8	20.4
301012 2008 JL_{17}	13.7	X	301.86756	162.41929	137.74532	6.68305	0.0752613	0.08209932	5.2429576	20	5 15.3	20.5
301013 2008 JJ_{18}	13.1	X	265.63521	200.88817	145.70319	7.87850	0.0518428	0.08211552	5.2422681	20	5 28.7	20.1
301014 2008 KX_{20}	16.1	X	180.12823	329.70324	77.19967	15.13050	0.2093145	0.24237463	2.5476784	20	5 6.9	20.5
301015 2008 PW_{16}	16.9	X	60.10037	196.33358	170.81432	23.62324	0.0746694	0.35564674	1.9729837	20	—	—
301016 2008 QJ_{32}	17.3	X	202.76760	72.07315	310.04612	7.12484	0.1938059	0.30237932	2.1983727	20	4 15.2	20.9
301017 2008 RF_{107}	18.4	X	278.47175	172.18163	158.75058	2.11614	0.1384956	0.30957589	2.1641696	20	5 7.3	20.9
301018 2008 RN_{126}	13.4	X	266.95016	326.54766	149.72542	5.22341	0.0363589	0.08474627	5.1332096	20	10 26.5	20.2
301019 2008 RX_{129}	19.1	X	258.52134	344.24986	44.63855	1.81277	0.1975396	0.31544721	2.1372316	20	6 24.9	21.6
301020 2008 RW_{146}	16.4	X	245.31616	270.51680	243.38938	8.47125	0.1724294	0.24297884	2.5434532	20	11 24.8	19.6
301021 Sofiarodriguez	17.4	X	260.46863	302.05995	341.45031	7.07080	0.1257357	0.29561250	2.2317944	20	2 12.7	20.4
301022 2008 SZ_{28}	18.3	X	324.03917	42.93491	224.85942	4.07288	0.1552466	0.30951837	2.1644377	20	4 9.1	20.3
301023 2008 SN_{67}	18.1	X	279.10464	111.56843	228.83476	0.50352	0.1951824	0.31270416	2.1497120	20	5 12.1	20.3
301024 2008 SH_{74}	17.8	X	235.87675	32.07502	316.28755	3.96625	0.1816426	0.30459959	2.1876769	20	4 4.0	21.1
301025 2008 SW_{91}	17.6	X	150.23077	114.27690	357.15096	3.88704	0.0757934	0.30928706	2.1655168	20	6 23.3	20.3
301026 2008 SH_{104}	17.8	X	166.15057	212.70520	211.43918	1.67294	0.0739614	0.30040881	2.2079756	20	5 6.1	20.6
301027 2008 SN_{128}	17.9	X	259.33915	357.78652	284.06343	2.02859	0.1565219	0.29405459	2.2396702	20	2 5.3	21.1
301028 2008 SP_{194}	18.3	X	200.07469	218.81422	202.29512	3.38846	0.1429410	0.30698489	2.1763298	20	6 9.5	21.5
301029 2008 SW_{205}	17.5	X	306.89630	199.90915	62.58875	7.70009	0.1846262	0.29951901	2.2123463	20	3 6.1	20.2
301030 2008 SO_{224}	17.2	X	274.61279	223.49373	339.82210	1.93424	0.1472732	0.27597755	2.3364341	20	—	—
301031 2008 SA_{243}	17.5	X	125.62495	27.21126	56.25871	3.98191	0.0721017	0.29380867	2.2409198	20	4 13.1	20.1
301032 2008 SC_{258}	17.7	X	289.58802	315.88198	46.16667	2.68341	0.1556779	0.31454475	2.1413176	20	7 9.9	19.7
301033 2008 SB_{266}	17.7	X	332.30635	6.06772	204.08717	5.29152	0.0557495	0.28877567	2.2668824	20	2 13.9	20.3
301034 2008 SG_{266}	18.0	X	170.02513	296.70785	98.80201	0.58627	0.0701238	0.29661508	2.2267625	20	4 1.0	20.6
301035 2008 SH_{268}	17.7	X	187.94709	165.68006	249.07661	4.25305	0.1169691	0.30325619	2.1941329	20	5 18.8	20.8
301036 2008 SG_{283}	17.3	X	72.89876	130.05295	18.15925	5.96380	0.0716891	0.29607137	2.2294878	20	4 28.3	19.7
301037 2008 SN_{291}	12.9	X	23.59546	46.77533	286.21201	12.12830	0.0825273	0.08273879	5.2159081	20	9 30.0	19.6
301038 2008 SM_{297}	17.5	X	147.82074	278.04653	168.97457	5.14571	0.1077048	0.30053522	2.2073564	20	5 19.7	20.6
301039 2008 SQ_{305}	17.8	X	41.61545	118.78345	61.58315	5.13028	0.0662408	0.29310631	2.2444982	20	4 27.3	20.0
301040 2008 TX_{20}	18.4	X	325.02737	102.97515	200.52768	0.46950	0.0788833	0.31117071	2.1567687	20	6 21.9	20.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
301041 2008 TY_{32}	18.0	X	20.32540	33.16420	183.31350	5.05535	0.0691476	0.30428738	2.1891730	20	5 16.2	20.0
301042 2008 TX_{38}	18.6	X	287.76398	43.79573	235.81275	5.02212	0.1638575	0.30023954	2.2088054	20	2 29.9	21.7
301043 2008 TG_{56}	18.5	X	309.97161	67.95323	210.86957	1.95480	0.1913870	0.30774762	2.1727324	20	3 27.1	20.7
301044 2008 TQ_{65}	17.2	X	56.47290	248.43569	229.71820	4.32495	0.1464197	0.28681998	2.2771752	20	2 24.3	19.2
301045 2008 TY_{98}	17.8	X	258.24446	50.17313	193.17187	6.31885	0.0935451	0.28451178	2.2894749	20	—	—
301046 2008 TZ_{112}	17.8	X	189.48522	15.08655	40.88894	6.49938	0.0626958	0.30469150	2.1872369	20	5 22.3	20.5
301047 2008 TJ_{124}	18.0	X	266.78449	22.07106	294.81104	3.06318	0.1686373	0.30644335	2.1788931	20	3 26.7	21.0
301048 2008 TB_{162}	17.6	X	300.58085	205.01261	19.49481	5.59367	0.1152336	0.28460849	2.2889562	20	1 15.6	20.5
301049 2008 TP_{168}	17.7	X	248.11449	224.95670	43.39200	0.71893	0.1808960	0.28481916	2.2878274	20	1 9.0	21.3
301050 2008 TV_{177}	17.4	X	183.34008	282.18846	119.57875	6.71207	0.1554012	0.29935888	2.2131352	20	4 29.8	20.8
301051 2008 TP_{180}	17.2	X	16.75720	356.36773	24.50858	21.35065	0.1002765	0.34506390	2.0131202	20	—	—
301052 2008 TY_{187}	17.7	X	61.01293	222.36246	315.67077	3.29923	0.1221050	0.30325856	2.1941215	20	6 3.3	19.8
301053 2008 UX_{1}	17.8	X	253.46543	132.28202	227.99572	3.66368	0.1256327	0.30613961	2.1803340	20	5 17.9	20.6
301054 2008 UT_{13}	17.5	X	242.77376	63.69697	223.14533	6.11110	0.1392044	0.29370722	2.2414358	20	1 25.8	20.9
301055 2008 US_{26}	18.0	X	72.35595	333.96477	161.81935	0.80078	0.0884000	0.29244700	2.2478704	20	4 13.3	20.2
301056 2008 UR_{46}	18.1	X	213.98961	102.62736	285.03377	2.09243	0.1045271	0.30185650	2.2009104	20	5 10.5	21.2
301057 2008 UH_{50}	17.7	X	346.77228	314.65191	216.96650	2.18674	0.1427908	0.28161011	2.3051749	20	1 2.5	19.9
301058 2008 UX_{61}	17.7	X	322.71314	292.00033	16.96010	5.10430	0.1489802	0.31288660	2.1488763	20	6 17.2	19.4
301059 2008 UC_{72}	16.6	X	201.26833	283.56477	348.22782	6.10788	0.1242225	0.27118111	2.3639036	20	—	—
301060 2008 UU_{80}	18.1	X	342.34759	206.21535	75.50368	2.08238	0.1523275	0.31518001	2.1384394	20	6 14.8	19.3
301061 Egelsbach	18.2	X	158.31304	43.56967	30.12688	2.92361	0.1057831	0.29888435	2.2154771	20	5 11.4	21.0
301062 2008 UA_{103}	17.9	X	267.78890	41.11997	221.72654	6.31085	0.1073000	0.29009772	2.2599899	20	1 24.1	21.1
301063 2008 UE_{126}	17.5	X	160.82568	124.18614	280.77333	4.23223	0.1184116	0.29165374	2.2519445	20	4 4.1	20.7
301064 2008 UG_{126}	16.8	X	305.67055	358.83904	265.83300	6.37671	0.0867886	0.29269975	2.2465762	20	3 15.8	19.5
301065 2008 UB_{127}	17.1	X	0.01905	224.44486	232.19833	5.27195	0.0695808	0.26326429	2.4110603	20	—	—
301066 2008 UR_{140}	17.6	X	245.89891	211.79317	80.90225	1.14288	0.1935417	0.29157120	2.2523695	20	2 4.9	21.0
301067 2008 UC_{143}	18.6	X	328.49780	126.32685	154.70818	1.31525	0.1264700	0.30658428	2.1782253	20	5 16.3	20.3
301068 2008 UH_{151}	18.0	X	162.07692	186.84915	204.89834	0.93171	0.1428976	0.29069598	2.2568881	20	3 22.8	21.0
301069 2008 UA_{163}	17.6	X	245.87308	303.13956	334.27535	2.84808	0.0933399	0.28730789	2.2745964	20	1 22.7	20.6
301070 2008 UJ_{170}	17.1	X	48.61438	153.70254	329.19125	4.95276	0.0607908	0.28715220	2.2754185	20	2 12.3	19.2
301071 2008 UZ_{170}	18.3	X	231.90472	315.11939	357.80091	2.56671	0.1826732	0.29306119	2.2447286	20	2 18.3	21.8
301072 2008 UZ_{190}	17.8	X	3.90167	64.65372	136.84355	2.76468	0.1003990	0.29444062	2.2377122	20	3 22.4	19.6
301073 2008 UU_{200}	17.5	X	168.93076	261.65280	161.87930	0.18914	0.0784015	0.30007768	2.2095996	20	5 8.8	20.4
301074 2008 UL_{208}	17.5	X	15.32853	282.93371	231.11444	5.57078	0.0768280	0.28375962	2.2935189	20	1 31.0	20.0
301075 2008 US_{208}	16.8	X	280.34380	297.31253	237.66143	5.75893	0.1048620	0.26580717	2.3956586	20	—	—
301076 2008 UK_{225}	17.4	X	319.50539	199.83893	359.62393	4.82322	0.1197810	0.27788310	2.3257407	20	1 6.5	20.2
301077 2008 UG_{238}	17.8	X	149.63648	34.10359	302.87074	2.69698	0.1128185	0.27716946	2.3297311	20	—	—
301078 2008 UF_{247}	17.3	X	238.73107	201.30226	65.19745	2.55867	0.1940442	0.27800351	2.3250691	20	—	—
301079 2008 UV_{254}	17.5	X	286.54827	48.71771	228.25919	7.70161	0.1417931	0.29537784	2.2329763	20	2 27.4	20.6
301080 2008 UK_{257}	18.2	X	171.96992	180.66266	249.34663	3.56356	0.1117679	0.30002933	2.2098370	20	5 22.3	21.1
301081 2008 UD_{265}	17.4	X	320.12628	349.34683	258.38969	6.36346	0.1432943	0.29636334	2.2280233	20	3 3.3	19.9
301082 2008 UZ_{266}	17.4	X	295.09356	280.90628	259.58045	4.21352	0.1529667	0.26925825	2.3751445	20	—	—
301083 2008 UV_{287}	18.6	X	35.82193	153.39377	89.84499	2.96669	0.0340373	0.31217058	2.1521609	20	7 20.9	20.6
301084 2008 UG_{293}	17.9	X	273.60244	197.77277	19.78948	7.66375	0.0619345	0.27574475	2.3377490	20	—	—
301085 2008 UG_{313}	17.5	X	232.93964	347.31735	354.75205	6.63370	0.1534385	0.29944729	2.2126996	20	3 27.0	20.7
301086 2008 UQ_{315}	17.9	X	214.83223	248.06378	66.64101	2.88014	0.2406008	0.28785414	2.2717179	20	2 6.3	21.7
301087 2008 UQ_{338}	17.7	X	306.40102	216.80426	42.74719	6.99680	0.0442897	0.29093941	2.2556290	20	3 23.9	20.3
301088 2008 UW_{339}	17.6	X	313.66463	294.37448	209.01620	5.87847	0.0528173	0.26548127	2.3976187	20	—	—
301089 2008 UE_{340}	18.1	X	38.34734	273.56177	220.68130	2.57591	0.1126104	0.28067474	2.3102935	20	2 13.1	20.1
301090 2008 US_{341}	17.9	X	99.60019	240.28183	233.23418	3.72222	0.0984279	0.29299644	2.2450593	20	4 22.7	20.4
301091 2008 UX_{344}	17.2	X	198.54777	7.25065	212.70010	2.25220	0.1282444	0.25720339	2.4487903	20	12 31.7	20.6
301092 2008 UG_{345}	17.8	X	282.41457	263.77309	48.60703	5.61629	0.2200276	0.30493804	2.1860578	20	4 4.9	20.6
301093 2008 UU_{348}	17.1	X	266.80621	54.08949	206.25163	6.58255	0.0873868	0.28185267	2.3038522	20	1 22.9	20.3
301094 2008 UA_{355}	17.8	X	207.68401	271.27716	77.02094	3.31704	0.1910746	0.29255771	2.2473033	20	3 13.4	21.3
301095 2008 UQ_{355}	17.4	X	163.15166	313.36087	344.00867	4.59315	0.2234322	0.26920676	2.3754474	20	—	—
301096 2008 UF_{358}	16.2	X	87.14301	355.40485	260.01701	13.45053	0.1433251	0.23726204	2.5841470	20	10 18.6	20.2
301097 2008 UN_{360}	17.8	X	274.19636	25.48412	227.29065	3.05552	0.1235841	0.28357745	2.2945010	20	1 18.7	21.0
301098 2008 UC_{361}	17.9	X	136.63830	255.18534	185.90600	6.96082	0.0944086	0.29384262	2.2407472	20	4 26.9	20.8
301099 2008 UA_{366}	17.6	X	271.41943	214.91910	141.07470	2.80993	0.0912789	0.30979947	2.1631282	20	6 11.5	19.8
301100 2008 UF_{369}	17.3	X	70.81838	97.40241	70.55258	6.04313	0.1043722	0.29706840	2.2244966	20	6 1.2	19.4
301101 2008 UB_{370}	16.0	X	308.93179	161.54014	274.02664	12.32847	0.1510913	0.24239496	2.5475359	20	11 26.9	18.7
301102 2008 VF_{23}	17.5	X	1.66656	322.57412	215.78810	4.71201	0.0984089	0.28123931	2.3072007	20	2 11.0	19.8
301103 2008 VB_{30}	17.1	X	232.73432	254.91902	27.11742	6.66598	0.1440711	0.28375807	2.2935273	20	1 14.6	20.6
301104 2008 VV_{48}	17.1	X	222.06418	352.98145	236.81393	4.27252	0.1543680	0.26056830	2.4276626	20	—	—
301105 2008 VB_{67}	17.7	X	154.82094	250.31623	220.00757	5.90460	0.0742587	0.30294683	2.1956264	20	6 26.6	20.6
301106 2008 VW_{69}	16.9	X	280.38241	257.16517	336.44849	8.25868	0.1415320	0.28028746	2.3124212	20	1 1.3	20.4
301107 2008 VG_{70}	17.8	X	211.34904	267.75014	67.52352	9.01541	0.1762533	0.28915792	2.2648841	20	3 3.6	21.5
301108 2008 VE_{71}	17.3	X	246.68298	232.91276	44.17470	4.97156	0.1405653	0.28263979	2.2995729	20	1 21.9	20.9
301109 2008 VQ_{71}	16.8	X	17.32271	101.14507	304.24096	12.24370	0.1200656	0.24545256	2.5263354	20	—	—
301110 2008 VQ_{77}	17.2	X	309.54535	304.79558	11.99435	4.62161	0.1813163	0.30904201	2.1666614	20	5 26.7	19.1
301111 2008 WC_{1}	17.6	X	349.24861	257.77911	238.73885	2.37373	0.1648567	0.26808432	2.3820732	20	—	—
301112 2008 WT_{1}	17.7	X	284.65841	243.51169	88.34878	4.41585	0.1916205	0.31032359	2.1606920	20	5 9.2	20.2
301113 2008 WP_{23}	17.8	X	195.98367	2.99741	33.58461	4.70548	0.1215320	0.29923771	2.2137326	20	5 2.4	20.8
301114 2008 WN_{25}	17.5	X	233.16288	49.83329	217.07768	1.14040	0.0943527	0.27951956	2.3166544	20	—	—
301115 2008 WM_{42}	17.6	X	280.82796	263.93506	289.53598	2.51928	0.1477266	0.26473115	2.4021457	20	—	—
301116 2008 WJ_{48}	17.4	X	176.96429	223.95763	70.78201	2.18327	0.1828224	0.26979013	2.3720218	20	—	—
301117 2008 WK_{48}	17.8	X	82.09938	191.03444	254.04510	1.70708	0.0993621	0.27908708	2.3190470	20	2 16.8	20.3
301118 2008 WG_{50}	17.9	X	58.85365	46.04211	69.10774	5.22952	0.0827741	0.28073658	2.3099543	20	2 23.5	20.3
301119 2008 WX_{56}	18.4	X	231.08715	97.17915	240.93605	2.33423	0.2343084	0.29840396	2.2178542	20	3 15.9	22.0
301120 2008 WC_{59}	17.3	X	292.74355	156.33272	51.21753	7.76971	0.0463079	0.27575676	2.3376811	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
301121 2008 WE_{59}	17.8	X	77.01032	49.10217	123.86258	3.62546	0.0454532	0.30084446	2.2058435	20	6 8.7	20.3
301122 2008 WQ_{64}	17.6	X	242.74085	346.83156	280.51431	2.76596	0.1540410	0.28433111	2.2904446	20	1 3.9	20.9
301123 2008 WT_{68}	17.4	X	196.35466	291.09658	80.99271	7.05322	0.1165914	0.29290372	2.2455331	20	4 4.4	20.7
301124 2008 WN_{70}	17.8	X	162.10815	196.56433	241.36553	4.21180	0.1729235	0.29636989	2.2279905	20	5 24.8	21.1
301125 2008 WP_{76}	17.3	X	308.61640	327.27088	215.98227	6.40584	0.1795649	0.26806483	2.3821887	20	—	—
301126 2008 WZ_{89}	16.9	X	2.42990	171.35096	293.08837	5.71104	0.0983048	0.25824437	2.4422052	20	—	—
301127 2008 WT_{91}	15.6	X	289.43170	312.60999	302.24977	3.54818	0.0928354	0.18102491	3.0948800	20	2 24.9	20.0
301128 2008 WV_{96}	17.8	X	105.30487	101.86495	329.16432	1.38926	0.1540445	0.28150897	2.3057270	20	3 11.5	20.6
301129 2008 WY_{105}	17.8	X	243.59452	76.45586	288.36206	5.41068	0.1323008	0.30414148	2.1898731	20	5 9.6	20.9
301130 2008 WJ_{110}	18.2	X	234.19480	277.14517	64.45899	5.88216	0.2272769	0.29866741	2.2165498	20	3 27.3	21.8
301131 2008 WQ_{116}	18.3	X	230.99336	131.72600	196.54820	0.81803	0.1497137	0.29113344	2.2546267	20	3 8.6	21.7
301132 2008 WX_{127}	17.8	X	321.81604	229.53104	65.84930	4.43183	0.1650984	0.30584058	2.1817550	20	5 20.2	19.6
301133 2008 WC_{134}	16.8	X	180.28442	247.31592	88.00746	6.25353	0.2031966	0.27644993	2.3337718	20	2 4.3	20.5
301134 2008 WZ_{134}	17.5	X	57.98167	356.00817	119.58195	2.34512	0.1615825	0.27852342	2.3221748	20	3 1.2	19.5
301135 2008 XR_{9}	17.9	X	169.05552	315.61504	108.07869	6.53887	0.1326529	0.29656798	2.2269983	20	5 13.4	21.1
301136 2008 XT_{9}	17.7	X	75.84673	26.67197	59.65924	6.33552	0.0588221	0.27265074	2.3554014	20	2 7.9	20.4
301137 2008 XS_{20}	16.6	X	45.08262	341.66770	98.14161	6.63476	0.0770575	0.26595704	2.3947585	20	—	—
301138 2008 XJ_{37}	16.9	X	229.94470	324.69648	273.61434	5.37975	0.1068526	0.26489307	2.4011667	20	—	—
301139 2008 XM_{38}	17.2	X	185.16621	215.02514	34.75521	2.93320	0.1490226	0.25706015	2.4496999	20	—	—
301140 2008 XV_{47}	17.5	X	105.89250	79.28859	278.16638	4.01560	0.0708747	0.26054473	2.4278090	20	—	—
301141 2008 XZ_{47}	18.0	X	90.62909	235.66976	145.85614	1.37442	0.1786661	0.26558505	2.3969941	20	—	—
301142 2008 XF_{48}	17.0	X	207.64111	337.71349	220.76113	1.61910	0.1380990	0.24079116	2.5588354	20	12 10.2	20.5
301143 2008 XJ_{48}	16.7	X	156.81698	217.81894	114.31656	5.15670	0.2479241	0.26908082	2.3761885	20	1 13.7	20.3
301144 2008 XY_{49}	16.5	X	114.87513	182.34217	112.28075	4.75776	0.0768976	0.24103240	2.5571278	20	—	—
301145 2008 XA_{53}	17.8	X	31.96073	250.10426	212.04262	0.87242	0.1436039	0.26601590	2.3944053	20	—	—
301146 2008 XN_{53}	17.5	X	255.33526	172.34293	205.84659	6.07830	0.1238791	0.30714668	2.1755655	20	6 15.9	20.2
301147 2008 XR_{53}	17.8	X	163.38736	316.68114	103.58166	3.43273	0.1327068	0.29368743	2.2415365	20	5 1.9	20.9
301148 2008 XW_{55}	15.9	X	340.41387	287.01868	13.09957	1.93525	0.0624188	0.20442482	2.8539540	20	7 9.3	19.5
301149 2008 XG_{56}	17.5	X	22.82620	61.31105	70.72073	2.81037	0.1144516	0.27384213	2.3485648	20	1 14.7	19.6
301150 2008 YB_{7}	16.9	X	349.20395	177.22221	324.29639	4.48055	0.0516386	0.26040560	2.4286737	20	—	—
301151 2008 YG_{7}	17.2	X	27.53692	280.49640	175.83953	1.39098	0.1376382	0.26406891	2.4061602	20	—	—
301152 2008 YT_{7}	17.1	X	51.16340	94.33552	325.42127	2.57834	0.1597526	0.26469725	2.4023509	20	—	—
301153 2008 YO_{9}	17.1	X	62.01569	3.09977	110.81131	6.50105	0.1470837	0.27300078	2.3533876	20	3 7.6	19.4
301154 2008 YD_{16}	16.3	X	11.83986	4.84677	284.35269	9.24441	0.2240486	0.21818453	2.7326672	20	8 27.2	19.2
301155 2008 YO_{17}	17.4	X	133.76910	286.41691	109.02869	6.07314	0.2090735	0.27771720	2.3266668	20	3 8.6	20.8
301156 2008 YA_{19}	17.0	X	139.39516	45.76014	309.90593	3.75399	0.0989322	0.26577017	2.3958809	20	1 9.2	20.2
301157 2008 YL_{19}	18.0	X	56.52230	131.84259	323.06450	0.96965	0.1488235	0.26908976	2.3761359	20	1 26.4	20.0
301158 2008 YT_{21}	16.2	X	30.20131	168.12063	123.28417	11.21477	0.1563810	0.21944948	2.7221560	20	10 2.4	19.7
301159 2008 YJ_{23}	17.1	X	275.81975	300.88358	77.91583	4.78848	0.2166322	0.31142879	2.1555770	20	7 1.0	19.2
301160 2008 YX_{29}	17.2	X	37.77916	146.65391	312.87644	3.07276	0.1270346	0.26549983	2.3975070	20	—	—
301161 2008 YO_{33}	17.2	X	18.98998	323.76635	142.00406	5.63994	0.1880203	0.26304926	2.4123741	20	—	—
301162 2008 YS_{34}	17.7	X	137.64496	113.81160	245.08278	1.90320	0.2597580	0.27183948	2.3600853	20	1 29.3	21.2
301163 2008 YZ_{36}	17.2	X	156.68526	243.63575	98.68631	3.44615	0.2075942	0.26825720	2.3810497	20	1 22.9	20.7
301164 2008 YF_{41}	16.9	X	27.27200	90.88201	6.00413	6.70319	0.0962718	0.26201055	2.4187456	20	—	—
301165 2008 YC_{50}	17.5	X	154.03471	40.85751	333.75481	4.70975	0.1681703	0.27518030	2.3409447	20	2 24.9	20.9
301166 2008 YQ_{53}	16.5	X	273.06204	126.30539	310.50372	21.53053	0.0322443	0.22832909	2.6511149	20	9 26.2	20.6
301167 2008 YR_{65}	15.3	X	1.92102	222.26541	343.40457	9.60275	0.1465118	0.18040587	3.1019558	20	3 31.7	19.0
301168 2008 YT_{65}	15.9	X	296.24911	316.44860	351.43964	10.35610	0.0508595	0.18962652	3.0005670	20	5 12.9	20.1
301169 2008 YQ_{67}	16.3	X	143.56175	113.20967	98.99750	16.02136	0.0941089	0.22808525	2.6530041	20	10 30.1	20.6
301170 2008 YT_{70}	16.8	X	23.11978	87.18392	318.58156	5.90051	0.1520605	0.25226651	2.4806356	20	—	—
301171 2008 YM_{78}	16.9	X	316.61485	324.97464	196.67367	2.33509	0.1214504	0.25662230	2.4524855	20	—	—
301172 2008 YD_{89}	16.8	X	65.85521	319.82281	309.58709	1.87681	0.0477540	0.22759611	2.6568039	20	9 30.9	20.3
301173 2008 YK_{97}	16.1	X	28.96334	188.16488	88.90531	4.38626	0.0562000	0.21625219	2.7489217	20	8 23.6	19.6
301174 2008 YF_{103}	17.0	X	196.11532	347.27685	236.13879	0.85895	0.0069178	0.24573534	2.5243969	20	—	—
301175 2008 YZ_{103}	17.7	X	123.91060	332.38727	4.43029	0.74364	0.0766153	0.25686952	2.4509117	20	—	—
301176 2008 YX_{104}	17.7	X	36.41026	268.68009	179.09958	1.06860	0.1566342	0.26337179	2.4104042	20	—	—
301177 2008 YZ_{104}	16.8	X	79.95203	126.22545	287.42124	4.45550	0.1035199	0.26609658	2.3939212	20	1 3.9	19.2
301178 2008 YK_{117}	17.5	X	127.49347	299.21228	101.43012	3.34823	0.1635128	0.27651127	2.3334267	20	3 2.0	20.6
301179 2008 YA_{128}	17.1	X	124.72226	49.45428	307.81757	5.53933	0.1615814	0.26266931	2.4146999	20	1 2.8	20.1
301180 2008 YE_{129}	17.2	X	109.97313	161.69529	78.41833	4.58272	0.1076327	0.22897048	2.6461618	20	10 24.9	21.2
301181 2008 YZ_{133}	17.0	X	142.06550	25.36331	274.11934	4.25766	0.1056261	0.26141815	2.4223983	20	—	—
301182 2008 YF_{138}	17.8	X	75.01229	267.11863	172.61894	1.13504	0.1535185	0.27207653	2.3587142	20	2 7.2	20.1
301183 2008 YH_{143}	17.7	X	78.75951	298.24231	131.43528	5.23502	0.1619691	0.27010550	2.3701751	20	2 1.2	19.7
301184 2008 YW_{145}	18.2	X	77.08691	127.48057	288.49357	0.59636	0.1768144	0.26649409	2.3915401	20	1 12.3	20.1
301185 2008 YY_{145}	17.5	X	82.18963	87.61143	305.22840	1.65064	0.1863415	0.26251106	2.4156702	20	—	—
301186 2008 YJ_{146}	16.7	X	21.39181	27.63296	192.32166	1.59334	0.0884710	0.19830552	2.9123676	20	5 25.4	20.2
301187 2008 YR_{147}	16.5	X	122.99384	331.11358	309.88797	7.99516	0.1648966	0.24326968	2.5414256	20	12 29.1	20.6
301188 2008 YH_{152}	16.4	X	87.72956	299.09386	269.74728	3.10708	0.0343960	0.21332252	2.7740327	20	8 6.3	20.2
301189 2008 YS_{152}	16.6	X	254.91096	261.49593	221.36416	2.83018	0.1068007	0.23536296	2.5980288	20	11 5.5	19.9
301190 2008 YS_{159}	17.6	X	114.42343	213.75624	155.47429	1.40350	0.1856834	0.26449759	2.4035596	20	1 7.9	20.5
301191 2008 YR_{161}	16.9	X	80.51417	142.59930	112.65057	2.70340	0.0246644	0.22797673	2.6538459	20	9 30.4	20.4
301192 2008 YZ_{165}	16.4	X	195.90703	111.72077	76.27353	13.71705	0.1230884	0.22706699	2.6609296	20	11 16.1	20.5
301193 2008 YW_{166}	16.3	X	248.08910	12.67270	242.04625	5.57377	0.0844900	0.27231333	2.3573466	20	—	—
301194 2008 YH_{167}	16.7	X	235.61878	276.46501	246.69449	5.47679	0.1564573	0.24315915	2.5421957	20	11 26.5	20.1
301195 2008 YM_{167}	17.1	X	29.19141	312.73328	161.48861	2.60978	0.1702972	0.26760938	2.3848908	20	—	—
301196 2008 YO_{168}	16.3	X	177.22601	87.12591	90.73871	11.51821	0.1309708	0.22458259	2.6805175	20	10 18.2	20.7
301197 2008 YR_{169}	16.9	X	128.22090	249.71625	117.61486	6.72095	0.1282471	0.26358409	2.4091098	20	1 14.8	19.9
301198 2008 YR_{171}	17.4	X	13.12536	129.11550	15.58872	3.99611	0.1392758	0.26773269	2.3841584	20	1 15.5	19.6
301199 2008 YA_{172}	15.9	X	292.64854	232.06797	156.27983	7.06242	0.0770545	0.21286539	2.7780028	20	8 25.1	19.4
301200 2009 AH	16.3	X	192.73807	182.96053	286.62689	8.59868	0.1204836	0.21690983	2.7433627	20	8 1.4	20.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
301201 2009 AO_{11}	16.9	X	4.51224	144.47819	307.79208	5.74475	0.1160946	0.25619370	2.4552200	20	—	—
301202 2009 AZ_{22}	18.2	X	74.55917	84.59595	34.02797	1.84315	0.1347668	0.27856135	2.3219640	20	3 31.3	20.7
301203 2009 AB_{24}	16.6	X	49.27989	221.52166	124.69570	16.07889	0.1518775	0.24236221	2.5477655	20	—	—
301204 2009 AU_{27}	17.1	X	40.64676	323.82337	348.68744	2.13928	0.0890491	0.22837880	2.6507302	20	10 30.9	20.5
301205 2009 AC_{30}	17.8	X	173.36561	153.33543	247.71635	1.88608	0.1181092	0.28865042	2.2675381	20	4 14.3	21.0
301206 2009 AC_{31}	17.5	X	68.18258	75.84800	203.74573	0.79414	0.0837773	0.22787943	2.6546012	20	10 23.4	21.1
301207 2009 AQ_{34}	17.4	X	119.92380	33.78180	17.40174	0.48723	0.1487427	0.27884621	2.3203824	20	3 3.4	20.2
301208 2009 AL_{41}	17.0	X	94.57366	83.08931	193.04984	0.73959	0.0734830	0.23230147	2.6208052	20	11 18.5	20.6
301209 2009 AU_{42}	16.6	X	33.66892	17.27280	313.35053	14.83151	0.2020063	0.23233780	2.6205320	20	12 1.1	20.3
301210 2009 AB_{44}	16.8	X	149.81090	262.70280	214.65124	1.27548	0.0174938	0.20551000	2.8438984	20	6 24.3	20.7
301211 2009 AC_{44}	17.1	X	313.76280	140.75396	251.82181	1.54777	0.0591948	0.22644227	2.6658214	20	10 5.6	20.4
301212 2009 AG_{44}	16.8	X	118.44394	68.31189	152.89566	5.46184	0.0996450	0.22034592	2.7147679	20	10 8.5	20.8
301213 2009 AP_{45}	16.1	X	276.23615	15.59620	295.23463	1.84570	0.0333122	0.18599260	3.0395242	20	4 26.2	20.3
301214 2009 AU_{45}	17.8	X	127.37229	43.42277	337.59968	3.77715	0.2145492	0.27067252	2.3668638	20	2 11.6	20.9
301215 2009 AL_{46}	16.2	X	1.41731	2.62801	311.89359	5.36914	0.0832072	0.21584759	2.7523558	20	9 1.0	19.4
301216 2009 AK_{48}	17.4	X	58.20319	235.17658	201.45566	1.93549	0.0729331	0.26690817	2.3890659	20	—	—
301217 2009 AQ_{49}	17.2	X	284.43566	339.29943	155.64704	6.53005	0.1227915	0.24390980	2.5369771	20	—	—
301218 2009 AP_{50}	16.5	X	39.58951	34.97844	4.77865	15.08573	0.1322733	0.25180525	2.4836641	20	—	—
301219 2009 BP_{2}	17.5	X	44.14288	91.98635	51.61379	4.05543	0.1283837	0.27428520	2.3460349	20	3 15.5	19.6
301220 2009 BK_{4}	17.1	X	56.63991	267.60675	158.39369	7.37120	0.2122521	0.26471058	2.4022702	20	—	—
301221 2009 BL_{5}	16.5	X	38.52196	229.72977	243.92872	6.83773	0.0980870	0.26666173	2.3905376	20	1 16.3	19.0
301222 2009 BK_{6}	16.8	X	349.49134	299.19334	200.00323	4.47095	0.0864351	0.26150237	2.4218782	20	—	—
301223 2009 BZ_{6}	17.4	X	42.10694	224.62521	220.43454	4.48780	0.1591338	0.26306706	2.4122653	20	—	—
301224 2009 BX_{8}	17.7	X	53.74043	191.66647	251.94676	0.51311	0.1589810	0.26643860	2.3918721	20	1 4.9	19.6
301225 2009 BD_{9}	17.6	X	38.36246	258.44207	196.97599	1.83642	0.1339667	0.26513482	2.3997070	20	—	—
301226 2009 BW_{12}	16.6	X	6.61290	181.97734	275.64826	6.15081	0.0614008	0.25607095	2.4560046	20	—	—
301227 2009 BL_{13}	16.3	X	321.93224	300.45593	140.77459	10.33965	0.0870931	0.24132693	2.5550468	20	12 28.3	19.3
301228 2009 BN_{13}	16.5	X	49.12958	303.79608	149.17448	8.60748	0.1619728	0.26405523	2.4062433	20	1 9.8	18.7
301229 2009 BS_{13}	16.6	X	17.97312	11.45785	37.76679	5.05366	0.0818425	0.24684436	2.5168302	20	—	—
301230 2009 BC_{19}	17.6	X	115.72945	14.43469	6.83653	1.17209	0.1871145	0.26992451	2.3712345	20	1 25.3	20.4
301231 2009 BS_{19}	17.2	X	0.60667	308.21451	327.83789	3.12745	0.0647997	0.21044954	2.7992223	20	7 8.2	20.7
301232 2009 BY_{24}	17.4	X	67.39472	6.01922	109.46642	3.53792	0.1244782	0.27235643	2.3570980	20	3 15.2	19.7
301233 2009 BK_{25}	17.3	X	347.53876	113.30183	51.65140	1.69892	0.1355119	0.26223350	2.4173745	20	—	—
301234 2009 BY_{26}	17.3	X	161.02688	44.22305	333.98049	5.35101	0.1816363	0.27873223	2.3210149	20	3 7.4	20.8
301235 2009 BE_{34}	17.4	X	163.83647	215.45809	1.85504	3.15428	0.0598905	0.23251087	2.6192315	20	11 20.3	21.1
301236 2009 BJ_{37}	16.9	X	84.47110	270.47035	338.08922	4.34204	0.0682120	0.22034529	2.7147731	20	9 28.7	20.6
301237 2009 BM_{40}	17.1	X	107.61670	295.33561	111.05360	5.91397	0.2333574	0.27123186	2.3636087	20	2 25.7	20.1
301238 2009 BD_{42}	15.2	X	261.09047	301.63380	317.57885	26.41126	0.2729426	0.17192556	3.2031388	20	1 20.7	20.7
301239 2009 BH_{42}	16.9	X	69.31635	257.54484	131.77948	7.30906	0.1219440	0.25476752	2.4643743	20	—	—
301240 2009 BE_{43}	17.1	X	96.40073	64.97871	327.96833	5.63932	0.1574845	0.26288730	2.4133648	20	1 10.9	19.8
301241 2009 BO_{43}	17.1	X	323.53003	107.19993	340.27391	4.22387	0.1042889	0.24171426	2.5523165	20	—	—
301242 2009 BS_{43}	16.8	X	166.57350	293.16430	162.21051	2.27654	0.0212952	0.20273523	2.8697886	20	6 16.9	20.9
301243 2009 BF_{45}	17.5	X	56.13220	297.46104	146.62075	1.49557	0.1499879	0.26328254	2.4109489	20	1 10.7	19.7
301244 2009 BJ_{45}	16.7	X	194.52354	285.73165	144.99201	2.61457	0.0498020	0.20357509	2.8618902	20	6 18.5	20.9
301245 2009 BS_{45}	17.2	X	102.35250	29.55274	172.45993	4.48002	0.0083123	0.21256616	2.7806093	20	8 12.7	21.0
301246 2009 BW_{45}	17.0	X	60.26133	14.84927	227.83789	2.30308	0.0415133	0.21122634	2.7923552	20	8 15.7	20.8
301247 2009 BR_{46}	17.7	X	88.03088	244.04870	180.58826	2.10666	0.1991027	0.26851912	2.3795011	20	2 15.4	20.2
301248 2009 BR_{47}	17.0	X	36.52650	313.54502	305.53803	2.99989	0.0555358	0.21276539	2.7788732	20	8 7.5	20.6
301249 2009 BT_{48}	17.4	X	287.50618	317.91858	132.78104	3.22083	0.0757139	0.23160588	2.6260500	20	11 14.9	20.6
301250 2009 BP_{49}	16.7	X	108.74073	288.86042	314.09114	6.62383	0.0855443	0.22497722	2.6773821	20	10 20.0	20.7
301251 2009 BZ_{49}	16.4	X	259.89049	255.42257	16.22132	0.93643	0.1814623	0.17934116	3.1142208	20	2 4.8	21.3
301252 2009 BO_{50}	17.1	X	31.49089	55.84392	357.08804	2.19023	0.1913652	0.25445800	2.4663724	20	—	—
301253 2009 BR_{52}	17.1	X	296.61185	83.33416	106.34937	2.73775	0.0887993	0.25720993	2.4487487	20	—	—
301254 2009 BW_{52}	16.7	X	26.05692	220.38047	125.56873	13.57285	0.1792731	0.23424788	2.6062672	20	12 11.6	20.2
301255 2009 BH_{55}	17.7	X	94.44895	49.46017	330.92820	3.87879	0.2030145	0.26196996	2.4189955	20	—	—
301256 2009 BW_{65}	16.2	X	14.53250	9.31807	311.19490	4.06727	0.1092378	0.21939911	2.7225726	20	10 3.3	19.5
301257 2009 BN_{69}	17.4	X	15.93305	136.36472	329.76965	3.03230	0.1460633	0.26160309	2.4212565	20	—	—
301258 2009 BP_{69}	16.5	X	153.64618	264.19993	324.59190	5.11099	0.0386978	0.23583083	2.5945915	20	11 24.2	20.2
301259 2009 BK_{70}	16.4	X	196.74369	154.15474	332.16215	8.69857	0.1043925	0.22090618	2.7101758	20	8 29.4	20.3
301260 2009 BH_{71}	15.8	X	188.19697	175.41777	353.52812	13.59244	0.1801090	0.22381026	2.6866807	20	10 5.7	20.3
301261 2009 BS_{71}	17.6	X	55.77659	95.16108	308.37635	4.87070	0.1820701	0.25652527	2.4531039	20	—	—
301262 2009 BZ_{76}	15.9	X	152.13137	21.34939	125.27855	9.15114	0.1602966	0.21078297	2.7962695	20	8 10.1	20.3
301263 2009 BB_{77}	17.2	X	85.66394	308.58331	97.45362	9.15055	0.2193177	0.26759950	2.3849495	20	1 20.8	19.6
301264 2009 BO_{77}	16.4	X	5.58087	97.19644	11.75475	6.67989	0.0871966	0.25759840	2.4462863	20	—	—
301265 2009 BG_{79}	16.1	X	200.96659	196.60754	3.51958	13.98798	0.0905716	0.23655042	2.5893270	20	12 6.9	20.1
301266 2009 BN_{79}	16.9	X	22.58668	128.59044	350.01185	3.54936	0.1174347	0.26524346	2.3990516	20	—	—
301267 2009 BZ_{81}	16.5	X	327.64091	74.43107	321.69880	14.92969	0.0347948	0.23364881	2.6107202	20	10 25.9	20.2
301268 2009 BK_{83}	17.0	X	84.80429	254.42602	58.30623	2.12318	0.1039845	0.23762867	2.5814883	20	12 26.8	20.9
301269 2009 BT_{83}	17.8	X	330.75476	122.09478	302.63086	0.76333	0.0856575	0.24033014	2.5621068	20	12 19.5	20.5
301270 2009 BX_{83}	17.5	X	113.19090	238.71564	131.56476	5.10790	0.1950082	0.26430559	2.4047235	20	1 9.1	20.5
301271 2009 BB_{84}	17.7	X	114.42409	74.06321	332.24698	0.80930	0.1854717	0.27316143	2.3524648	20	2 24.8	20.6
301272 2009 BR_{84}	17.5	X	77.57506	302.88623	138.99116	2.60664	0.1583967	0.27107770	2.3645048	20	2 16.2	19.8
301273 2009 BJ_{86}	18.3	X	62.32387	285.73965	121.91463	2.22623	0.1760902	0.25999113	2.4312542	20	—	—
301274 2009 BH_{89}	17.3	X	348.21462	197.27811	147.99293	2.65781	0.0860863	0.22355286	2.6887426	20	9 26.2	20.4
301275 2009 BG_{90}	18.0	X	70.16861	163.35560	251.41872	0.42314	0.1789454	0.26337414	2.4103899	20	—	—
301276 2009 BJ_{90}	16.9	X	41.01331	10.32964	293.00917	1.58459	0.0392576	0.22433718	2.6824721	20	10 10.9	20.3
301277 2009 BW_{90}	17.1	X	335.31038	70.62550	318.30205	4.19685	0.0855466	0.23160107	2.6260864	20	11 3.6	20.2
301278 2009 BF_{91}	18.1	X	91.66165	296.82509	123.52065	1.31038	0.1971174	0.27006886	2.3703895	20	2 15.2	20.6
301279 2009 BH_{94}	16.9	X	45.80674	278.05995	146.42090	6.85168	0.0957756	0.25623619	2.4549486	20	—	—
301280 2009 BS_{94}	17.0	X	316.18375	115.84220	312.33742	3.47219	0.0925977	0.23518202	2.5993613	20	11 28.3	19.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
301281 2009 BM_{98}	17.0	X	95.41366	24.46554	327.37790	7.08119	0.1214918	0.25494732	2.4632155	20	—	—
301282 2009 BT_{104}	17.9	X	296.73376	351.57715	129.52873	1.58483	0.0801150	0.24091034	2.5579914	20	—	—
301283 2009 BA_{105}	17.3	X	214.08595	13.43532	169.67920	4.62273	0.0225374	0.23529644	2.5985185	20	12 12.9	20.8
301284 2009 BF_{105}	15.6	X	272.13865	352.49172	307.48534	8.35734	0.1266436	0.18873633	3.0099945	20	3 22.4	20.1
301285 2009 BZ_{107}	16.0	X	299.34680	130.42867	144.66554	12.47725	0.0952731	0.18595119	3.0399755	20	4 6.5	20.3
301286 2009 BA_{108}	16.3	X	337.70782	301.41201	357.87708	6.49726	0.0492279	0.20247672	2.8722307	20	7 5.1	20.1
301287 2009 BD_{108}	16.6	X	318.47467	267.61945	132.25106	6.64340	0.0227516	0.22397240	2.6853839	20	10 26.8	20.2
301288 2009 BA_{110}	15.5	X	314.84342	310.28965	311.65494	20.82638	0.1858203	0.18860642	3.0113766	20	3 12.9	19.8
301289 2009 BR_{112}	15.5	X	260.44659	140.63531	165.61315	12.23343	0.0821117	0.17951045	3.1122625	20	3 28.9	20.1
301290 2009 BG_{113}	15.7	X	207.71225	137.17762	173.73026	13.95392	0.1597128	0.17232787	3.1981515	20	2 4.4	21.1
301291 2009 BW_{113}	17.0	X	66.77528	256.88416	46.17899	2.01780	0.0713927	0.23397729	2.6082762	20	11 19.9	20.5
301292 2009 BK_{120}	16.5	X	316.88995	324.87114	320.14091	1.75523	0.0919653	0.20048482	2.8912239	20	5 9.0	20.2
301293 2009 BS_{123}	15.8	X	356.27185	54.27309	164.51136	10.96568	0.0929604	0.18512284	3.0490371	20	4 16.3	19.6
301294 2009 BW_{123}	15.8	X	38.56824	350.77628	154.03658	12.00842	0.0542461	0.18290602	3.0736238	20	3 13.3	19.8
301295 2009 BY_{123}	16.5	X	83.00331	301.73300	310.27533	4.13365	0.0333369	0.21891515	2.7265837	20	9 25.7	20.3
301296 2009 BJ_{124}	16.4	X	71.93501	294.42641	317.72725	7.70181	0.0979899	0.21435301	2.7651349	20	9 19.2	20.3
301297 2009 BV_{124}	15.8	X	280.93046	116.65797	149.01151	10.17863	0.0089969	0.18274134	3.0754702	20	3 12.8	20.1
301298 2009 BP_{125}	15.6	X	299.91604	282.21177	320.12917	12.64850	0.0889019	0.18104767	3.0946207	20	2 22.2	19.8
301299 2009 BP_{127}	16.5	X	351.09822	38.00065	319.25238	5.43317	0.0323618	0.22461215	2.6802824	20	10 10.6	20.0
301300 2009 BC_{129}	16.7	X	277.19305	222.53676	150.63731	4.93192	0.0863234	0.21160205	2.7890490	20	7 11.1	20.3
301301 2009 BL_{130}	15.3	X	265.05598	270.08529	359.61296	10.01405	0.0460406	0.17740346	3.1368566	20	2 24.4	19.8
301302 2009 BX_{130}	17.1	X	139.04997	39.27437	29.11317	4.48319	0.1606859	0.27881155	2.3205747	20	4 18.4	20.5
301303 2009 BL_{131}	16.2	X	273.52511	297.93884	24.05220	6.88404	0.0476788	0.19285494	2.9669862	20	5 4.3	20.3
301304 2009 BH_{133}	16.8	X	93.01868	114.19395	134.12808	3.54744	0.1800282	0.22050812	2.7134364	20	10 22.5	21.0
301305 2009 BU_{133}	17.3	X	136.22470	234.53624	311.08409	1.08593	0.0174082	0.21964796	2.7205159	20	9 6.4	21.1
301306 2009 BF_{134}	17.5	X	108.01637	248.20312	135.65717	4.54267	0.1301943	0.26443620	2.4039317	20	1 9.9	20.4
301307 2009 BQ_{134}	17.1	X	188.56437	351.26464	189.95020	0.23585	0.0335453	0.23078603	2.6322656	20	11 6.2	20.8
301308 2009 BB_{140}	17.5	X	74.58491	107.23606	314.58675	3.28864	0.2105251	0.26647809	2.3916358	20	1 21.7	19.7
301309 2009 BR_{142}	17.7	X	11.61759	242.24967	136.83043	5.03493	0.0483065	0.23838248	2.5760433	20	12 14.9	21.0
301310 2009 BT_{142}	16.5	X	211.19064	42.57379	102.90717	3.35911	0.0247945	0.22649590	2.6654006	20	10 21.1	20.0
301311 2009 BM_{146}	17.3	X	314.52345	155.62462	286.21612	2.49141	0.0844501	0.23436379	2.6054078	20	12 14.6	20.3
301312 2009 BC_{147}	17.3	X	77.46464	111.08962	304.75577	3.79260	0.1708507	0.26090715	2.4255602	20	1 13.6	19.5
301313 2009 BP_{148}	16.5	X	50.81102	12.84237	257.16811	2.34274	0.0513294	0.21341107	2.7732653	20	9 9.8	20.1
301314 2009 BO_{149}	17.5	X	69.00388	182.83945	240.55877	1.32132	0.1644341	0.25941467	2.4348546	20	1 7.9	19.7
301315 2009 BS_{149}	17.4	X	106.77938	220.57767	202.79981	1.07907	0.1730342	0.27055160	2.3675690	20	3 7.1	20.3
301316 2009 BR_{150}	16.5	X	334.61948	90.78344	274.69009	6.87253	0.0550825	0.22489738	2.6780157	20	9 26.9	20.0
301317 2009 BO_{153}	17.1	X	234.50237	37.79259	74.42241	0.75246	0.0277595	0.22619403	2.6677715	20	10 5.9	20.7
301318 2009 BK_{155}	15.5	X	244.80101	172.41937	128.31665	25.22251	0.2127501	0.18389491	3.0625951	20	2 24.2	20.7
301319 2009 BR_{157}	15.6	X	257.66322	323.15811	341.26178	9.95409	0.0800513	0.18378684	3.0637955	20	3 19.6	20.2
301320 2009 BM_{158}	17.6	X	355.85533	267.25754	180.81182	1.08390	0.0849101	0.24651113	2.5190978	20	—	—
301321 2009 BP_{162}	15.3	X	302.27906	237.37843	354.34717	15.19648	0.1274628	0.17006418	3.2264690	20	2 14.7	19.9
301322 2009 BL_{167}	17.2	X	239.84315	266.53103	219.44835	3.61916	0.0525539	0.22610753	2.6684518	20	10 26.5	20.8
301323 2009 BC_{168}	15.9	X	270.02876	18.80634	289.72033	9.12784	0.0682730	0.19098618	2.9863091	20	4 6.4	20.4
301324 2009 BQ_{169}	16.8	X	277.47201	335.25428	129.59929	4.01755	0.0517180	0.23392088	2.6086955	20	11 22.2	20.0
301325 2009 BV_{171}	17.6	X	36.68934	291.04685	126.46833	5.33411	0.1444686	0.25238640	2.4798500	20	—	—
301326 2009 BB_{173}	17.5	X	168.39933	222.17150	160.53402	4.94952	0.1340144	0.27995819	2.3142339	20	3 18.7	20.9
301327 2009 BP_{173}	16.2	X	173.34130	84.40299	65.25045	9.12347	0.1306394	0.21732121	2.7398995	20	9 7.7	20.7
301328 2009 BG_{176}	16.1	X	38.58783	187.07820	323.30065	4.27157	0.0732891	0.18059827	3.0997523	20	3 18.9	20.2
301329 2009 BL_{176}	16.3	X	264.26664	332.19703	342.09030	9.50731	0.0344954	0.18874409	3.0099120	20	4 12.3	20.6
301330 2009 BR_{178}	16.4	X	351.90475	40.09135	218.52123	1.27721	0.1457868	0.19302236	2.9652704	20	5 28.2	19.7
301331 2009 BV_{178}	15.7	X	342.69886	235.65704	333.98293	3.74880	0.1039792	0.17647575	3.1478403	20	3 10.9	19.8
301332 2009 BC_{179}	16.6	X	244.27855	328.62414	185.76891	13.14673	0.1814556	0.22862920	2.6487944	20	11 21.4	20.3
301333 2009 BX_{180}	16.2	X	300.36681	250.94009	338.50495	2.52932	0.0433157	0.17643900	3.1482774	20	2 16.1	20.6
301334 2009 BY_{181}	17.7	X	31.82589	62.94188	18.99399	4.58570	0.1173771	0.25460043	2.4654524	20	—	—
301335 2009 BK_{183}	18.1	X	55.39005	265.79279	156.81703	2.52724	0.2223824	0.25887652	2.4382278	20	—	—
301336 2009 BL_{183}	16.9	X	314.34739	182.04099	145.38653	2.66309	0.0740027	0.20409534	2.8570246	20	7 4.9	20.5
301337 2009 BA_{185}	16.2	X	182.07405	347.20067	180.78063	10.33302	0.1056205	0.22375962	2.6870860	20	10 7.2	20.3
301338 2009 BR_{186}	15.6	X	319.81063	301.30817	258.57196	6.45465	0.1711222	0.17391753	3.1786337	20	1 17.2	19.9
301339 2009 BD_{187}	15.4	X	325.14189	345.57125	251.72211	8.38397	0.1643369	0.18436229	3.0574169	20	3 7.3	19.4
301340 2009 BP_{187}	16.0	X	217.30961	204.53454	282.07867	8.07425	0.1147273	0.22009974	2.7167918	20	9 16.2	20.2
301341 2009 BC_{188}	17.1	X	113.61208	242.29106	191.62318	5.38380	0.2085887	0.27659347	2.3329644	20	4 3.6	20.1
301342 2009 BK_{188}	16.4	X	2.00639	162.60382	139.76796	4.80410	0.0882538	0.21384967	2.7694721	20	8 17.7	19.7
301343 2009 BM_{188}	16.1	X	118.04485	182.12355	31.99272	10.25179	0.0756198	0.21629573	2.7485528	20	9 28.4	20.1
301344 2009 BC_{189}	16.5	X	136.81803	165.64004	0.96255	5.65324	0.1193645	0.21399116	2.7682512	20	8 20.2	20.7
301345 2009 CU_{3}	17.1	X	281.11950	294.08932	178.64312	8.82922	0.1176172	0.23880274	2.5730201	20	12 2.5	20.1
301346 2009 CS_{7}	17.6	X	159.69105	258.93984	147.93143	6.09425	0.1913943	0.28627952	2.2800403	20	4 15.0	21.1
301347 2009 CB_{8}	18.1	X	90.65051	226.09748	195.68397	1.88085	0.1780502	0.27207728	2.3587099	20	2 11.2	20.5
301348 2009 CE_{9}	17.1	X	57.70010	311.96787	141.66677	7.25838	0.0822012	0.26740773	2.3860896	20	1 20.7	19.7
301349 2009 CO_{10}	16.0	X	41.73473	37.23190	306.48605	13.21596	0.1378916	0.23308943	2.6148955	20	12 21.1	19.7
301350 2009 CE_{12}	16.8	X	325.34268	61.29921	322.24919	5.66499	0.0871258	0.22211411	2.7003410	20	10 7.6	20.1
301351 2009 CR_{14}	16.4	X	321.48633	269.98951	19.80188	1.17504	0.0412736	0.19644172	2.9307598	20	5 28.8	20.3
301352 2009 CL_{16}	16.8	X	13.44434	141.31445	173.58347	6.65610	0.0538905	0.21990839	2.7183676	20	9 19.9	20.0
301353 2009 CP_{22}	17.4	X	338.88016	282.24994	162.22643	5.68921	0.0703750	0.24515586	2.5283733	20	—	—
301354 2009 CG_{28}	16.9	X	323.97783	28.13072	342.91612	5.55675	0.0239699	0.22001561	2.7174843	20	9 21.5	20.4
301355 2009 CQ_{28}	16.8	X	254.56869	74.46795	354.54996	4.40507	0.0606968	0.21830108	2.7316945	20	8 30.4	20.3
301356 2009 CM_{31}	17.4	X	263.37929	332.77535	94.04531	3.05369	0.0495351	0.21770811	2.7366524	20	9 10.8	20.9
301357 2009 CV_{31}	17.4	X	57.06062	289.26158	130.87049	2.77508	0.1635176	0.25726743	2.4483839	20	—	—
301358 2009 CC_{37}	17.4	X	35.41112	280.57017	171.11245	1.76136	0.1605351	0.26338422	2.4103284	20	—	—
301359 2009 CA_{39}	16.6	X	267.94765	273.42175	164.26743	7.45234	0.1219981	0.22325597	2.6911258	20	9 20.7	19.9
301360 2009 CE_{39}	16.0	X	145.45562	73.15326	150.27634	15.21087	0.0881745	0.22548990	2.6733223	20	11 11.6	20.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
301361 2009 CJ_{39}	16.7	X	331.91679	277.92752	140.07258	5.57117	0.0677369	0.23466285	2.6031937	20	12 10.2	19.8
301362 2009 CD_{43}	16.1	X	238.70155	130.16935	347.70931	11.10799	0.1301419	0.22763879	2.6564718	20	9 30.8	19.8
301363 2009 CS_{43}	16.4	X	3.00866	59.15407	143.20570	3.93719	0.1092030	0.18306075	3.0718917	20	4 3.8	20.0
301364 2009 CA_{44}	15.9	X	323.12042	16.05667	174.45100	5.25605	0.1017166	0.17009878	3.2260313	20	1 20.7	20.4
301365 2009 CS_{44}	15.5	X	344.34747	29.83299	170.12530	13.97179	0.0190804	0.17704809	3.1410527	20	3 8.7	19.9
301366 2009 CX_{44}	16.8	X	146.14930	68.89463	153.00067	14.94869	0.1575633	0.22385714	2.6863056	20	11 9.6	21.4
301367 2009 CP_{49}	15.2	X	300.99166	231.95737	353.07456	26.71226	0.1897712	0.17123575	3.2117353	20	2 3.1	20.1
301368 2009 CX_{49}	15.9	X	92.53465	199.95094	336.82145	13.81169	0.0914975	0.20401574	2.8577677	20	7 12.6	20.1
301369 2009 CF_{51}	16.6	X	10.96736	267.29558	131.56865	8.71416	0.1422321	0.24292862	2.5438037	20	—	—
301370 2009 CX_{52}	16.3	X	317.42370	270.24362	11.54642	1.74890	0.0768399	0.19450242	2.9502085	20	5 7.9	20.1
301371 2009 CC_{54}	16.6	X	286.67333	308.35423	165.15760	8.26179	0.1072669	0.23572963	2.5953341	20	12 12.4	19.7
301372 2009 CW_{54}	17.4	X	280.65317	12.34412	106.62825	1.80633	0.1208705	0.23765858	2.5812717	20	12 8.4	20.0
301373 2009 CK_{55}	17.1	X	13.05378	256.75134	140.45101	14.12961	0.2478997	0.24560848	2.5252661	20	—	—
301374 2009 CE_{56}	16.7	X	39.65561	36.58428	50.19242	5.00091	0.0856375	0.25746373	2.4471392	20	—	—
301375 2009 CJ_{59}	16.0	X	30.91609	145.55916	141.37831	6.62716	0.0268132	0.21096683	2.7946447	20	9 3.6	19.7
301376 2009 CJ_{62}	16.4	X	149.00744	341.08521	181.87556	6.80333	0.0057565	0.21162277	2.7888669	20	8 21.2	20.2
301377 2009 CP_{62}	15.7	X	222.77897	341.50524	345.16103	10.88586	0.1071301	0.18182453	3.0857997	20	3 9.3	20.5
301378 2009 CZ_{62}	15.5	X	296.44015	249.22414	22.81081	9.20475	0.0191341	0.17606139	3.1527773	20	4 6.9	19.9
301379 2009 CJ_{63}	16.2	X	110.08066	181.80909	21.85293	7.32540	0.0619535	0.21203946	2.7852120	20	9 3.8	20.2
301380 2009 CW_{64}	16.4	X	119.14308	234.57853	7.76894	3.11009	0.0358882	0.22353730	2.6888674	20	10 29.9	20.1
301381 2009 DR_{2}	16.4	X	273.76876	98.89623	10.62247	12.99995	0.0430079	0.22957271	2.6415320	20	11 17.8	20.0
301382 2009 DX_{3}	16.0	X	211.64797	1.60311	124.44014	9.73086	0.0882569	0.22097031	2.7096515	20	9 20.2	20.0
301383 2009 DL_{7}	16.2	X	103.96029	220.53767	356.34610	5.27333	0.0105035	0.21291211	2.7775964	20	9 5.6	20.0
301384 2009 DV_{7}	16.5	X	182.09150	316.01489	178.72347	8.54361	0.1515481	0.21369430	2.7708143	20	8 21.0	21.0
301385 2009 DR_{11}	16.9	X	244.74783	165.04231	349.39604	1.69022	0.0331973	0.23428823	2.6059679	20	12 13.3	20.3
301386 2009 DO_{14}	16.3	X	121.82054	310.91184	298.29085	4.06246	0.0301518	0.22364385	2.6880133	20	11 9.9	20.1
301387 2009 DL_{19}	17.0	X	192.78761	317.61401	179.67429	3.31205	0.0368171	0.21380797	2.7698322	20	9 12.4	20.9
301388 2009 DP_{19}	16.5	X	288.83528	79.15665	51.20759	6.82428	0.1622219	0.24220793	2.5488473	20	—	—
301389 2009 DR_{19}	16.2	X	234.03721	168.38110	51.95676	9.65610	0.1028894	0.24708547	2.5151926	20	—	—
301390 2009 DA_{20}	16.4	X	47.32091	213.89662	152.42248	16.10082	0.1624103	0.24250440	2.5467695	20	—	—
301391 2009 DP_{24}	16.3	X	133.47413	9.62654	116.77462	3.19662	0.0166130	0.19711660	2.9240666	20	6 15.2	20.4
301392 2009 DT_{25}	16.9	X	243.22397	31.33243	101.85054	2.49398	0.1488265	0.23066515	2.6331852	20	10 28.0	20.3
301393 2009 DB_{29}	16.7	X	335.22660	128.43564	155.40484	2.32784	0.0755289	0.19587968	2.9363633	20	6 7.6	20.4
301394 Bensheim	16.0	X	62.23663	333.53514	174.34121	5.26759	0.1318600	0.18609434	3.0384163	20	4 29.1	19.9
301395 2009 DL_{31}	16.5	X	104.43556	324.19017	174.31211	5.56777	0.1372896	0.19250536	2.9705772	20	6 10.3	20.9
301396 2009 DO_{31}	16.5	X	30.12243	85.41002	228.56523	1.45643	0.0758450	0.21534875	2.7566046	20	10 14.2	20.0
301397 2009 DP_{31}	16.9	X	271.79898	164.72723	330.33736	3.88577	0.1722797	0.23501046	2.6006261	20	12 7.3	19.7
301398 2009 DF_{32}	16.0	X	355.44115	165.04400	85.21205	3.24246	0.0479033	0.19035239	2.9929341	20	5 25.3	19.8
301399 2009 DR_{32}	16.3	X	303.94338	250.05699	153.16652	5.28680	0.0811146	0.21762604	2.7373404	20	10 3.9	19.6
301400 2009 DV_{32}	16.4	X	351.46814	256.57850	52.89145	2.74358	0.0542313	0.20330140	2.8644581	20	8 9.1	19.9
301401 2009 DD_{33}	16.0	X	232.02342	341.52260	64.60127	2.69442	0.0234403	0.19904742	2.9051263	20	7 4.8	20.0
301402 2009 DC_{35}	16.0	X	280.06156	168.75581	172.35327	12.39365	0.0749494	0.19217891	2.9739402	20	6 5.3	20.3
301403 2009 DE_{35}	16.5	X	239.13551	233.19349	181.24425	1.87882	0.0573190	0.20316445	2.8657452	20	7 19.9	20.7
301404 2009 DK_{35}	15.9	X	301.46502	265.62177	7.54907	9.12294	0.0564230	0.18166803	3.0875717	20	4 7.5	20.2
301405 2009 DE_{37}	17.2	X	313.23358	212.99677	235.83663	1.58574	0.0657267	0.23829276	2.5766899	20	12 23.2	20.2
301406 2009 DT_{39}	17.4	X	146.26210	256.05795	158.29409	6.82128	0.0938486	0.27661280	2.3328556	20	4 3.2	20.5
301407 2009 DD_{41}	15.7	X	6.70151	52.85449	156.49841	10.89323	0.0470878	0.18755941	3.0225730	20	4 21.1	19.8
301408 2009 DU_{41}	15.3	X	297.80141	276.97610	344.15127	11.41714	0.0545106	0.18309993	3.0714534	20	3 18.1	19.6
301409 2009 DB_{42}	15.7	X	68.07272	356.34794	164.66332	10.69587	0.0549886	0.18994513	2.9972107	20	5 14.7	19.9
301410 2009 DC_{42}	17.2	X	83.31081	140.18133	329.56535	5.85702	0.2226902	0.27428819	2.3460178	20	4 13.2	19.9
301411 2009 DQ_{45}	16.7	X	339.36927	91.19772	339.00510	13.98328	0.1069985	0.23919757	2.5701879	20	—	—
301412 2009 DF_{46}	16.3	X	336.72487	120.43692	7.25736	13.53602	0.0969080	0.25417105	2.4682283	20	—	—
301413 2009 DN_{46}	16.5	X	202.32957	336.51778	138.47517	4.60549	0.0494015	0.21380099	2.7698925	20	8 25.8	20.4
301414 2009 DR_{46}	16.4	X	326.02725	298.12927	206.52515	6.67456	0.1777728	0.25517208	2.4617689	20	—	—
301415 2009 DV_{48}	17.2	X	336.25170	167.10119	9.86247	5.31463	0.1287656	0.26341493	2.4101411	20	1 1.0	20.2
301416 2009 DR_{49}	16.1	X	234.01624	165.72255	173.45098	11.09789	0.0245426	0.18281218	3.0746755	20	4 14.1	20.5
301417 2009 DS_{49}	16.9	X	216.15839	103.04104	16.23408	3.45405	0.1516278	0.21682075	2.7441141	20	9 6.9	21.1
301418 2009 DX_{50}	16.6	X	247.52470	83.22233	5.25763	4.48214	0.0321642	0.21403195	2.7678994	20	9 19.2	20.2
301419 2009 DY_{50}	16.9	X	5.53726	256.17240	148.81258	1.20919	0.0948126	0.23304946	2.6151944	20	—	—
301420 2009 DC_{51}	16.4	X	338.09728	182.56367	22.27166	5.12556	0.0767599	0.17488425	3.1669089	20	3 3.6	20.5
301421 2009 DC_{55}	15.8	X	273.98126	295.03719	2.71280	4.99234	0.1285874	0.18438260	3.0571923	20	3 25.8	20.2
301422 2009 DO_{56}	16.5	X	65.90137	193.89986	21.11170	5.78676	0.0716724	0.20160678	2.8804873	20	7 23.9	20.4
301423 2009 DZ_{56}	17.1	X	302.26983	351.85746	95.36472	3.21922	0.0579325	0.23090385	2.6313701	20	12 2.8	20.3
301424 2009 DG_{57}	15.8	X	351.85291	29.97655	143.99761	5.43034	0.1189616	0.17457767	3.1706155	20	2 8.3	19.8
301425 2009 DT_{57}	16.4	X	332.16848	329.36035	15.17031	4.48712	0.0840218	0.21156973	2.7893329	20	8 28.3	19.8
301426 2009 DX_{58}	16.2	X	308.10765	231.92450	89.97509	3.27064	0.0571302	0.19921712	2.9034763	20	6 20.1	19.7
301427 2009 DZ_{59}	16.2	X	340.78761	289.12445	44.72718	4.96655	0.0793738	0.20987174	2.8043577	20	8 28.4	19.6
301428 2009 DA_{61}	16.8	X	344.04849	234.37562	90.85106	5.20862	0.0037997	0.20863569	2.8154230	20	8 20.6	20.6
301429 2009 DQ_{61}	17.4	X	300.90048	66.55445	20.03610	5.08452	0.1632755	0.23293435	2.6160559	20	11 22.4	20.0
301430 2009 DX_{61}	16.7	X	341.58356	298.14610	132.27539	4.13190	0.1356844	0.23795177	2.5791509	20	—	—
301431 2009 DL_{63}	16.7	X	263.68032	87.74087	349.50460	6.07639	0.0990776	0.22314364	2.6920288	20	9 16.4	20.3
301432 2009 DO_{63}	15.7	X	318.64115	122.76748	135.66157	10.53120	0.0401237	0.18508143	3.0494919	20	4 19.1	20.0
301433 2009 DP_{69}	16.4	X	337.56021	209.36938	164.33490	5.93292	0.0272873	0.22210656	2.7004023	20	10 17.2	19.9
301434 2009 DK_{72}	17.2	X	41.91317	84.41202	1.55684	5.78090	0.1322000	0.25928239	2.4356826	20	—	—
301435 2009 DE_{73}	17.8	X	94.51709	260.14756	163.78473	3.74959	0.1997797	0.26641183	2.3920324	20	2 24.9	20.5
301436 2009 DL_{74}	16.8	X	243.74671	337.00840	139.11702	4.01763	0.1381434	0.22669312	2.6638545	20	10 8.0	20.3
301437 2009 DO_{74}	17.1	X	300.11214	65.41619	37.70234	2.00186	0.0944164	0.23682096	2.5873546	20	12 20.7	19.9
301438 2009 DF_{77}	15.2	X	288.33643	274.14439	336.11383	24.42638	0.2422470	0.17272461	3.1932523	20	2 6.9	20.2
301439 2009 DD_{78}	16.3	X	353.93861	344.92331	347.73781	5.01896	0.0703022	0.21816866	2.7327997	20	9 15.0	19.6
301440 2009 DY_{79}	16.2	X	182.30416	331.55612	128.52797	2.99860	0.0168739	0.20279444	2.8692299	20	7 12.8	20.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
301441 2009 DD_{80}	15.9	X	276.02989	76.74229	159.25160	13.41140	0.0681556	0.16864259	3.2445754	20	1 22.7	20.7
301442 2009 DB_{81}	16.1	X	115.22299	76.82716	183.98071	6.61544	0.0156044	0.22353852	2.6888576	20	11 18.4	19.8
301443 2009 DD_{82}	16.6	X	279.98931	334.98128	58.91861	4.52846	0.0983307	0.20894064	2.8126829	20	8 12.6	20.2
301444 2009 DM_{82}	15.9	X	297.46384	110.75802	160.09825	5.55793	0.0694815	0.18070457	3.0985366	20	3 31.1	20.2
301445 2009 DT_{82}	16.5	X	328.39188	270.21238	95.87117	2.89144	0.0358924	0.21295882	2.7771902	20	9 22.4	20.0
301446 2009 DX_{82}	16.3	X	292.96142	269.40405	142.19341	5.36534	0.1254892	0.21775261	2.7362796	20	9 22.9	19.5
301447 2009 DH_{83}	16.3	X	326.17900	230.93312	176.60361	5.33901	0.0622374	0.22325434	2.6911389	20	11 14.9	19.6
301448 2009 DA_{88}	17.0	X	301.61945	107.63748	318.70802	1.87821	0.0609287	0.22235236	2.6984118	20	10 31.7	20.3
301449 2009 DB_{92}	17.4	X	357.14338	270.92548	182.69480	12.40228	0.2944275	0.24941237	2.4995244	20	—	—
301450 2009 DZ_{94}	16.4	X	269.72272	272.51358	145.68874	6.87283	0.0552837	0.21254392	2.7808032	20	9 5.8	20.1
301451 2009 DN_{98}	17.7	X	307.70444	13.06704	76.22183	3.68436	0.1668431	0.23512586	2.5997751	20	12 11.9	20.1
301452 2009 DK_{102}	15.9	X	265.50587	333.97231	91.44464	6.61310	0.0136743	0.21361291	2.7715181	20	9 18.6	19.7
301453 2009 DG_{112}	16.4	X	355.50411	179.42497	107.41052	3.11882	0.0400913	0.20279063	2.8692659	20	7 13.9	20.0
301454 2009 DM_{112}	17.4	X	312.08937	97.64017	342.96491	11.18800	0.1620473	0.23638269	2.5905517	20	12 7.2	20.1
301455 2009 DW_{112}	16.0	X	281.95172	88.00280	155.54207	19.10816	0.1167633	0.17288421	3.1912868	20	1 31.6	20.9
301456 2009 DY_{112}	16.7	X	42.12020	152.69451	131.79714	4.64814	0.0364566	0.21459396	2.7630647	20	9 18.1	20.3
301457 2009 DW_{113}	17.2	X	19.22074	346.28371	6.10879	2.16150	0.0668789	0.22657506	2.6647797	20	11 19.2	20.5
301458 2009 DE_{115}	16.7	X	23.75499	292.94698	349.21759	3.98659	0.0397960	0.21066899	2.7972780	20	8 19.4	20.2
301459 2009 DB_{116}	17.2	X	238.22536	146.54394	304.06534	1.08922	0.0414195	0.21835220	2.7312681	20	9 8.3	20.7
301460 2009 DB_{117}	16.2	X	55.24070	267.75472	356.78509	6.29528	0.0047526	0.21241784	2.7819035	20	9 3.8	19.9
301461 2009 DX_{117}	16.7	X	77.07327	326.59423	328.59686	4.88589	0.0537801	0.22480602	2.6787412	20	11 16.8	20.6
301462 2009 DL_{118}	16.3	X	178.21006	37.20931	342.90477	1.67079	0.0493919	0.18387643	3.0628003	20	3 27.9	20.8
301463 2009 DX_{120}	17.0	X	174.88784	358.57833	166.24219	3.85930	0.0418609	0.21650764	2.7467590	20	9 27.3	21.0
301464 2009 DY_{120}	16.7	X	196.82808	348.65495	122.38607	0.54394	0.0229512	0.20880722	2.8138809	20	8 15.1	20.6
301465 2009 DC_{122}	16.6	X	30.22217	28.04777	4.56921	11.65671	0.1714468	0.23856227	2.5747489	20	—	—
301466 2009 DG_{124}	16.6	X	165.41118	299.18167	202.12944	11.25704	0.1710226	0.21162467	2.7888502	20	8 11.6	21.4
301467 2009 DV_{125}	15.9	X	40.59272	336.14724	177.18840	4.21092	0.1124958	0.17996468	3.1070235	20	3 31.1	19.8
301468 2009 DA_{126}	16.4	X	49.46640	213.16483	172.55014	3.71216	0.2571444	0.23989169	2.5652276	20	—	—
301469 2009 DD_{126}	16.9	X	219.09890	268.91169	187.79234	3.66758	0.0992771	0.21045730	2.7991535	20	8 14.9	21.1
301470 2009 DN_{126}	17.2	X	305.79680	241.53046	183.45184	7.28813	0.1928310	0.22855858	2.6493400	20	10 30.7	19.6
301471 2009 DQ_{126}	16.6	X	59.93376	95.81345	184.16122	3.99801	0.0724651	0.21369823	2.7707803	20	10 9.8	20.2
301472 2009 DW_{126}	16.3	X	6.66628	323.50694	209.46835	4.18077	0.0615233	0.17656101	3.1468268	20	3 1.7	20.6
301473 2009 DQ_{127}	16.7	X	258.63127	98.47901	6.81164	10.98672	0.1543276	0.22451575	2.6810496	20	10 7.7	20.3
301474 2009 DD_{128}	16.3	X	23.10203	14.20883	314.15560	5.03833	0.0698822	0.22072612	2.7116496	20	10 21.3	19.8
301475 2009 DO_{128}	15.3	X	338.59607	171.98408	33.85209	17.93650	0.1701056	0.17651770	3.1473416	20	3 2.9	19.4
301476 2009 DR_{128}	16.3	X	190.87294	153.59567	15.26540	11.79760	0.1203777	0.22339493	2.6900097	20	10 14.6	20.4
301477 2009 DT_{128}	16.0	X	322.20438	314.63089	130.31894	18.11499	0.1527024	0.23687288	2.5869765	20	—	—
301478 2009 DL_{131}	17.3	X	221.51672	324.59607	136.37158	2.89666	0.0401202	0.21527487	2.7572353	20	9 1.3	21.0
301479 2009 DF_{132}	16.2	X	334.57491	68.35189	168.96534	10.07389	0.0281127	0.18682180	3.0305236	20	4 12.4	20.3
301480 2009 DH_{133}	16.4	X	189.20511	304.50507	186.71211	3.69146	0.0364791	0.21212487	2.7844643	20	8 30.4	20.2
301481 2009 DZ_{133}	16.4	X	265.70284	68.89744	230.34937	1.04674	0.0768404	0.18117283	3.0931953	20	3 24.7	20.8
301482 2009 DL_{134}	16.9	X	291.08730	53.12793	24.63897	3.19154	0.0831778	0.22315945	2.6919017	20	10 29.8	20.0
301483 2009 DB_{135}	16.0	X	350.54868	326.68530	21.01154	6.61252	0.0527556	0.21234579	2.7825328	20	9 29.7	19.4
301484 2009 DV_{136}	15.8	X	288.35460	114.18795	194.38486	10.63885	0.0428305	0.18518766	3.0483256	20	5 9.9	20.1
301485 2009 DU_{137}	16.6	X	65.38219	82.77000	172.63006	2.00987	0.0465272	0.20993381	2.8038049	20	9 9.9	20.3
301486 2009 DB_{139}	16.5	X	308.35166	247.43927	6.88102	26.25746	0.0999469	0.17948486	3.1125583	20	3 21.9	20.8
301487 2009 DW_{139}	16.6	X	170.50245	305.94902	226.96938	4.27393	0.0970282	0.22133111	2.7067059	20	9 29.1	20.6
301488 2009 DO_{140}	16.4	X	145.96847	172.92979	73.03255	4.84286	0.0508816	0.22866468	2.6485204	20	12 6.3	20.3
301489 2009 DW_{141}	16.6	X	166.91230	135.60482	48.35434	3.19950	0.1137549	0.21913087	2.7247940	20	10 10.7	20.7
301490 2009 DE_{142}	15.3	X	6.72249	248.97728	264.05822	10.29708	0.0548883	0.17102971	3.2143143	20	2 4.9	19.7
301491 2009 EP_{3}	16.7	X	29.75302	251.52028	188.24049	6.03506	0.1116751	0.25464414	2.4651703	20	—	—
301492 2009 EH_{4}	16.0	X	318.57955	48.73932	7.82327	14.21337	0.0765378	0.22651567	2.6652455	20	11 9.7	19.4
301493 2009 ES_{4}	16.6	X	161.45995	352.28788	170.89358	4.44084	0.1456702	0.21319585	2.7751314	20	9 7.5	21.2
301494 2009 EG_{14}	16.6	X	351.64748	76.72523	155.46857	11.01272	0.0756567	0.18872650	3.0100990	20	4 28.2	20.6
301495 2009 EK_{15}	16.9	X	140.07721	342.71010	160.86888	10.27797	0.0393761	0.20444111	2.8538024	20	7 16.9	21.1
301496 2009 EC_{18}	16.3	X	67.27736	47.86795	212.44929	2.72746	0.0443981	0.21350170	2.7724804	20	9 18.3	19.9
301497 2009 EB_{19}	16.6	X	251.14219	105.21542	339.97603	6.07663	0.0753555	0.22268005	2.6957638	20	9 13.2	20.2
301498 2009 ET_{19}	16.5	X	223.74396	304.68708	182.87514	12.63367	0.2486794	0.22435397	2.6823383	20	9 14.1	20.8
301499 2009 EX_{21}	16.2	X	200.43291	358.74772	174.81392	11.56827	0.0338479	0.22656873	2.6648293	20	11 12.5	20.0
301500 2009 EL_{22}	16.4	X	230.88531	51.14415	344.93661	1.26771	0.0844303	0.19790382	2.9163071	20	6 12.9	20.6
301501 2009 EQ_{22}	16.1	X	359.58364	170.61913	40.59950	7.34504	0.0948340	0.17699945	3.1416281	20	4 10.8	20.1
301502 2009 EY_{22}	15.4	X	276.21786	309.78117	351.93960	9.18938	0.0815737	0.18405513	3.0608174	20	4 6.3	19.8
301503 2009 EP_{23}	15.3	X	233.46084	283.73043	103.72370	13.41165	0.0096924	0.19618349	2.9333311	20	6 14.5	19.4
301504 2009 ED_{26}	15.8	X	292.15903	270.89999	338.47970	8.93225	0.0932640	0.17389283	3.1789346	20	2 23.7	20.2
301505 2009 EE_{26}	16.1	X	284.17828	304.19396	302.54564	3.67685	0.0893457	0.17133703	3.2104696	20	2 11.1	20.6
301506 2009 ES_{28}	15.9	X	250.32571	178.53034	93.99485	2.68804	0.1098065	0.16983524	3.2293678	20	2 4.3	20.8
301507 2009 EX_{28}	17.1	X	269.03126	83.16710	29.89787	5.61603	0.0424109	0.22727656	2.6592936	20	11 18.6	20.4
301508 2009 EC_{30}	15.6	X	158.01199	220.44167	189.32737	14.34530	0.0614447	0.17826002	3.1267998	20	4 13.3	20.2
301509 2009 EW_{30}	16.3	X	359.74630	139.93812	76.21548	2.24463	0.0625293	0.18462842	3.0544780	20	4 17.2	20.2
301510 2009 FY_{2}	15.7	X	342.90471	91.28629	148.27806	10.90198	0.0421600	0.18285372	3.0742099	20	4 27.5	20.0
301511 Hubinon	15.9	X	208.76111	295.14127	75.44568	10.41782	0.0400320	0.18485111	3.0520244	20	4 23.9	20.4
301512 2009 FY_{6}	15.6	X	323.84348	149.39440	159.79300	11.29225	0.1362656	0.19541284	2.9410381	20	6 18.5	19.3
301513 2009 FU_{7}	15.9	X	219.27257	284.85070	38.80914	8.23335	0.1493050	0.17355268	3.1830870	20	3 5.5	21.1
301514 2009 FQ_{8}	16.1	X	279.94181	230.20322	62.49486	4.69492	0.0763309	0.18139923	3.0906211	20	4 4.9	20.4
301515 2009 FL_{10}	16.8	X	340.11387	189.13629	180.88497	4.27565	0.0501864	0.21908373	2.7251849	20	10 14.9	20.2
301516 2009 FF_{11}	16.9	X	36.63513	188.44996	141.13775	2.52572	0.0823521	0.22422937	2.6833318	20	11 16.3	20.5
301517 2009 FU_{13}	16.8	X	216.07317	308.65401	190.69844	3.56949	0.1560436	0.22253385	2.6969444	20	10 1.2	20.8
301518 2009 FC_{18}	16.2	X	256.94607	289.31367	143.92880	4.96361	0.0559612	0.21473979	2.7618137	20	9 8.6	19.8
301519 2009 FF_{18}	15.4	X	330.12569	202.44408	16.69743	21.10913	0.1658316	0.17404847	3.1770392	20	3 6.7	19.6
301520 2009 FR_{19}	15.8	X	287.57964	82.82368	180.91025	9.83882	0.0762043	0.17816159	3.1279514	20	3 7.1	20.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
301521 2009 FK_{22}	15.0	X	280.33216	73.32222	203.46328	10.80317	0.1178467	0.17462299	3.1700670	20	3 7.5	19.7
301522 2009 FX_{23}	16.1	X	335.31352	154.74979	65.27335	1.98990	0.0799314	0.17655410	3.1469089	20	3 17.3	20.2
301523 2009 FZ_{23}	16.0	X	19.74926	23.18411	170.28681	11.17686	0.0373495	0.18434468	3.0576115	20	4 18.1	20.1
301524 2009 FR_{26}	17.5	X	302.92019	47.92738	67.54635	3.21379	0.1597529	0.23822815	2.5771557	20	—	—
301525 2009 FP_{27}	16.8	X	341.72315	133.08347	161.81826	2.28422	0.0434755	0.20213809	2.8754375	20	7 4.1	20.5
301526 2009 FV_{28}	16.9	X	332.38971	328.33084	55.69965	6.82580	0.0296938	0.21917314	2.7244436	20	10 23.0	20.4
301527 2009 FY_{35}	16.7	X	284.38507	292.60691	156.90323	12.11320	0.1311241	0.22718843	2.6599813	20	11 3.8	20.0
301528 2009 FK_{37}	16.8	X	300.64211	312.98177	147.44219	5.61531	0.2404821	0.23519359	2.5992760	20	12 9.5	18.8
301529 2009 FH_{38}	17.4	X	285.46325	302.48260	189.22732	7.12824	0.1472669	0.23894987	2.5719638	20	12 31.4	20.2
301530 2009 FW_{38}	16.3	X	270.18492	34.89266	18.33599	4.35350	0.0632338	0.21203149	2.7852818	20	8 30.2	19.9
301531 2009 FE_{39}	16.1	X	269.07825	104.21420	148.70420	5.95253	0.1426319	0.17160095	3.2071769	20	1 26.8	21.0
301532 2009 FN_{40}	15.2	X	226.84378	319.50574	50.62759	11.22346	0.0334583	0.19339271	2.9614835	20	5 11.1	19.2
301533 2009 FY_{40}	17.6	X	306.85204	85.47325	30.11847	5.22378	0.1812178	0.23978756	2.5659703	20	—	—
301534 2009 FD_{44}	15.7	X	317.62031	232.68363	13.20826	11.23156	0.1237600	0.17636575	3.1491490	20	3 20.2	19.9
301535 2009 FE_{47}	16.7	X	303.15561	310.49950	83.50292	3.07671	0.0367554	0.21104703	2.7939367	20	9 23.3	20.3
301536 2009 FO_{47}	15.0	X	354.58049	351.15569	198.74768	28.72355	0.1455403	0.17238462	3.1974496	20	2 26.8	19.3
301537 2009 FA_{48}	15.8	X	51.09645	343.94827	157.28473	6.44416	0.1343846	0.17461054	3.1702176	20	4 5.2	19.7
301538 2009 FK_{50}	16.1	X	298.12049	267.99722	131.36914	6.46936	0.0505466	0.21345275	2.7729043	20	9 23.1	19.6
301539 2009 FR_{53}	16.4	X	219.39356	344.09279	31.33237	16.68210	0.0063354	0.18723075	3.0261092	20	5 8.3	20.8
301540 2009 FK_{54}	14.7	X	198.17296	308.36805	23.28803	27.07198	0.0886394	0.16943428	3.2344606	20	3 7.4	20.1
301541 2009 FS_{60}	15.8	X	108.66253	124.18615	347.24342	9.84193	0.0265526	0.18646047	3.0344375	20	4 22.8	20.2
301542 2009 FL_{62}	15.9	X	7.97101	335.71543	201.31086	13.13439	0.1718529	0.17540568	3.1606296	20	3 4.4	19.5
301543 2009 FY_{64}	15.5	X	48.30854	326.65129	142.77882	5.81216	0.1343251	0.17099151	3.2147931	20	2 19.2	19.5
301544 2009 FY_{65}	15.9	X	243.71824	279.44399	36.08564	9.67380	0.0723167	0.17497227	3.1658468	20	3 24.5	20.6
301545 2009 FT_{71}	16.2	X	246.82019	270.73175	142.30481	2.73960	0.0569964	0.20319288	2.8654779	20	7 28.1	20.2
301546 2009 FX_{71}	15.5	X	284.13817	246.95441	23.92818	17.63332	0.1010488	0.17241323	3.1970958	20	3 16.3	20.2
301547 2009 FQ_{73}	16.5	X	359.11086	34.67868	205.84277	9.11315	0.0375290	0.18395809	3.0618937	20	5 18.7	20.6
301548 2009 FA_{74}	17.1	X	300.16987	292.79002	161.57884	3.93266	0.1414191	0.23025964	2.6362758	20	12 4.7	19.9
301549 2009 FV_{75}	16.0	X	305.63202	312.56141	55.91014	4.37854	0.1059163	0.20954055	2.8073119	20	8 16.1	19.4
301550 2009 FY_{76}	15.8	X	183.70103	204.75148	173.07774	9.71475	0.0979300	0.17517003	3.1634636	20	4 3.2	20.7
301551 2009 GD_{2}	16.3	X	249.07716	132.27275	42.02592	12.53076	0.1353621	0.23080364	2.6321317	20	12 29.1	19.7
301552 2009 GA_{3}	16.1	X	302.82197	332.69566	80.12675	5.39241	0.0851842	0.21764814	2.7371551	20	10 15.9	19.4
301553 Ninaglebova	15.7	X	295.88781	92.65654	198.70366	10.88099	0.0744866	0.18143641	3.0901988	20	4 22.6	19.8
301554 2009 GG_{4}	16.0	X	319.10140	27.12858	182.76332	10.38740	0.0840246	0.16957654	3.2326514	20	2 9.0	20.6
301555 2009 HY	15.4	X	304.94607	246.37838	32.43907	16.53854	0.1442787	0.17788407	3.1312038	20	4 10.7	19.7
301556 2009 HS_{1}	16.7	X	281.29555	78.17564	37.04022	13.15981	0.1255881	0.22827563	2.6515288	20	11 28.2	19.8
301557 2009 HX_{2}	16.4	X	311.95256	276.52163	198.74774	13.96941	0.0930449	0.23551606	2.5969028	20	—	—
301558 2009 HL_{3}	15.9	X	172.55588	259.09173	161.01621	10.45092	0.0862637	0.18830906	3.0145459	20	5 13.9	20.6
301559 2009 HL_{9}	15.5	X	8.29610	100.30842	108.90376	11.89045	0.0927730	0.17806979	3.1290264	20	4 26.2	19.6
301560 2009 HZ_{14}	15.8	X	332.56123	153.38934	89.88538	6.50070	0.0902152	0.18125576	3.0922517	20	4 12.7	19.8
301561 2009 HU_{16}	16.2	X	258.71447	186.94366	105.85107	3.33643	0.1017272	0.17396214	3.1780902	20	3 8.7	20.9
301562 2009 HO_{19}	16.4	X	51.11857	78.71404	100.20490	1.98824	0.1324371	0.18382817	3.0633363	20	5 22.5	20.1
301563 2009 HK_{25}	14.6	X	23.63730	21.86314	59.60760	18.84415	0.0199265	0.14674152	3.5598692	20	—	—
301564 2009 HL_{32}	15.4	X	277.58497	91.51941	186.33620	13.29167	0.0634440	0.17188292	3.2036685	20	3 14.5	19.9
301565 2009 HE_{33}	15.9	X	117.40648	252.40679	214.87957	10.43975	0.1742533	0.18573225	3.0423640	20	5 20.4	20.7
301566 Melissajane	16.6	X	234.36560	106.98481	51.89958	12.82120	0.2296390	0.22848780	2.6498871	20	11 7.3	20.2
301567 2009 HT_{36}	15.9	X	30.68341	103.42264	109.31160	0.70816	0.0863707	0.18567217	3.0430203	20	5 30.1	19.8
301568 2009 HU_{39}	15.1	X	121.53465	164.37515	192.31939	17.99410	0.0851492	0.14703026	3.5552071	20	1 5.5	20.6
301569 2009 HY_{69}	16.3	X	273.34425	112.00384	219.25499	13.06741	0.0596568	0.18267460	3.0762191	20	5 16.3	20.6
301570 2009 HA_{81}	16.1	X	52.55415	324.32820	178.03497	10.47097	0.1664638	0.17784576	3.1316536	20	4 12.8	19.9
301571 2009 HJ_{82}	15.4	X	354.65621	13.79541	202.59406	18.00609	0.1522449	0.17489610	3.1667659	20	4 4.6	19.0
301572 2009 HF_{96}	15.7	X	345.27056	149.65148	73.63052	18.25776	0.1520203	0.17471576	3.1689448	20	4 8.6	19.8
301573 2009 HP_{99}	16.0	X	68.22112	306.97875	199.12974	4.58567	0.0960948	0.17975437	3.1094464	20	4 29.6	20.2
301574 2009 JV_{15}	16.0	X	31.09602	311.21784	230.52940	5.75559	0.0650625	0.17571563	3.1569118	20	4 17.5	20.2
301575 2009 KP_{3}	15.5	X	234.72818	250.92000	134.42347	11.79666	0.1016482	0.18312834	3.0711357	20	6 4.1	20.3
301576 2009 KR_{9}	16.2	X	35.45642	112.85836	87.38920	8.80230	0.0936902	0.18033135	3.1028103	20	5 22.9	20.1
301577 2009 KT_{17}	15.3	X	179.66895	184.09913	124.13546	11.02775	0.0683317	0.15165850	3.4825033	20	1 10.0	20.6
301578 2009 RE_{2}	16.8	X	106.65979	171.13972	149.12802	6.83563	0.1325724	0.20832043	2.8182627	20	—	—
301579 2009 UC_{87}	13.2	X	327.63670	298.68793	99.13850	5.20398	0.1074673	0.08337110	5.1895021	20	10 6.3	19.6
301580 2009 UT_{94}	12.9	X	270.97901	178.67384	287.54968	10.57275	0.0370311	0.08366113	5.1775013	20	10 13.3	19.9
301581 2009 XU_{9}	16.5	X	336.62353	9.00741	115.14888	23.72521	0.0665139	0.37528529	1.9035386	20	—	—
301582 2010 AO_{105}	16.8	X	73.04984	251.49303	66.49456	11.83175	0.1464734	0.24313154	2.5423881	20	12 25.6	20.7
301583 2010 BR_{2}	15.7	X	301.28073	276.11920	294.51358	21.33599	0.3022003	0.27914058	2.3187507	20	—	—
301584 2010 BN_{15}	16.9	X	38.77807	152.24979	140.04622	14.10052	0.2678573	0.22111660	2.7084562	20	11 2.9	20.8
301585 2010 BV_{38}	16.5	X	60.00032	141.44387	165.51279	11.80391	0.1897125	0.23255923	2.6188683	20	12 3.5	20.6
301586 2010 BG_{50}	15.9	X	284.90539	117.19757	148.18210	10.75429	0.1263579	0.18709085	3.0276176	20	2 28.8	20.3
301587 2010 CB_{10}	15.9	X	269.25762	254.26990	21.55141	8.91934	0.2864684	0.17928960	3.1148178	20	2 11.6	21.1
301588 2010 CP_{16}	15.4	X	255.82487	170.53717	124.95304	14.22169	0.2005744	0.18099784	3.0951886	20	2 29.2	20.5
301589 2010 CS_{28}	18.1	X	344.35189	213.98116	4.98672	3.65813	0.0902449	0.29655608	2.2270578	20	3 13.8	20.0
301590 2010 CB_{29}	17.7	X	268.97108	214.78516	28.08174	3.40645	0.1300998	0.28047902	2.3113682	20	1 1.3	21.1
301591 2010 CW_{33}	17.7	X	322.47577	289.73419	316.64364	5.24009	0.1070692	0.30001826	2.2098914	20	3 12.5	19.9
301592 2010 CG_{47}	16.5	X	78.49704	75.13701	168.00468	17.15976	0.0822583	0.21982883	2.7190234	20	9 18.1	20.2
301593 2010 CH_{58}	16.1	X	103.45898	262.89113	319.96661	13.73840	0.2417764	0.22984780	2.6394239	20	9 28.7	20.7
301594 2010 CC_{63}	17.2	X	273.04483	274.88822	354.42435	3.32776	0.2220905	0.28736553	2.2742922	20	1 30.3	20.7
301595 2010 CX_{76}	17.0	X	223.25579	317.87559	286.33338	1.72086	0.1611891	0.26732469	2.3865837	20	—	—
301596 2010 CN_{79}	17.9	X	205.54848	276.37706	344.68163	2.19448	0.0988598	0.27052319	2.3677348	20	—	—
301597 2010 CV_{82}	17.3	X	187.62882	113.00798	160.39460	7.29980	0.1065749	0.26540332	2.3980882	20	—	—
301598 2010 CH_{103}	17.3	X	192.26279	168.05408	160.77084	6.62264	0.1297091	0.28480116	2.2879237	20	1 31.6	20.8
301599 2010 CQ_{103}	17.4	X	164.31416	156.48913	138.26085	2.87163	0.1738713	0.26479918	2.4017343	20	—	—
301600 2010 CP_{126}	17.9	X	243.36766	138.59589	82.98862	1.93261	0.1465541	0.27224760	2.3577260	20	—	—

Planet		H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
		m		°	°	°	°		°				
301601	2010 CH_{129}	17.3	X	322.63654	274.44307	159.33899	23.26727	0.0725045	0.35567743	1.9728702	20	—	—
301602	2010 CO_{139}	17.9	X	343.40412	252.80798	322.73920	2.49048	0.1796588	0.29239305	2.2481469	20	2 22.2	19.6
301603	2010 CP_{146}	17.0	X	266.02940	265.21671	339.73359	5.60683	0.0729928	0.28370966	2.2937881	20	1 5.8	20.1
301604	2010 CM_{151}	17.3	X	235.42489	195.84964	75.24627	5.43813	0.2111434	0.27755135	2.3275936	20	1 1.6	21.3
301605	2010 CJ_{152}	17.4	X	211.32870	176.04914	103.72248	3.02781	0.1821777	0.27359573	2.3499747	20	—	—
301606	2010 CK_{153}	16.6	X	269.02257	26.19850	158.76008	8.83231	0.1594891	0.26733538	2.3865201	20	—	—
301607	2010 CP_{153}	17.1	X	296.27832	282.50319	353.56384	9.84514	0.1664921	0.29450226	2.2374000	20	3 10.1	19.9
301608	2010 CG_{185}	16.3	X	219.94187	256.24969	322.95055	10.17233	0.1754880	0.26437944	2.4042757	20	—	—
301609	2010 CX_{217}	16.3	X	267.44353	156.22816	163.56605	15.14567	0.1587484	0.19161389	2.9797836	20	4 13.8	20.8
301610	2010 DH_{7}	18.2	X	261.70956	191.78795	70.51940	2.16380	0.2116915	0.28510049	2.2863221	20	1 11.9	21.9
301611	2010 DS_{20}	16.9	X	6.66337	214.08645	168.45251	12.55708	0.1119559	0.23639955	2.5904285	20	12 20.7	20.3
301612	2010 DN_{34}	16.7	X	232.55358	172.05016	14.39817	19.59507	0.0615052	0.35389794	1.9794781	20	—	—
301613	2010 DQ_{37}	17.4	X	137.67722	296.45766	339.34415	4.67417	0.1839500	0.25507130	2.4624173	20	—	—
301614	2010 DT_{38}	17.8	X	332.47923	90.96655	145.70413	4.74906	0.1398989	0.29649873	2.2273450	20	3 13.2	19.8
301615	2010 DS_{48}	16.1	X	154.55608	180.42086	74.31866	14.42940	0.1460186	0.24187062	2.5512164	20	12 24.7	20.2
301616	2010 DT_{52}	16.3	X	357.71301	81.52807	166.03958	17.40379	0.1470124	0.19683827	2.9268223	20	5 26.9	19.9
301617	2010 DA_{58}	15.3	X	226.55290	87.92701	212.50291	20.74864	0.1401891	0.17236351	3.1977107	20	2 5.3	20.8
301618	2010 DJ_{74}	17.1	X	230.30261	65.63257	168.44702	6.00995	0.0934245	0.26858200	2.3791296	20	—	—
301619	2010 DJ_{75}	17.4	X	285.65921	148.48507	166.30400	3.29956	0.1486858	0.30503001	2.1856184	20	4 22.5	19.8
301620	2010 DY_{75}	18.4	X	353.80834	272.33711	312.95559	0.39188	0.1292098	0.29869907	2.2163931	20	4 5.1	20.1
301621	2010 DQ_{76}	16.7	X	220.49476	240.75476	12.94943	11.76863	0.2563630	0.26888341	2.3773514	20	—	—
301622	2010 DZ_{77}	17.6	X	6.28662	16.67052	168.22206	5.66297	0.0984653	0.29229112	2.2486695	20	2 28.9	19.7
301623	2010 DA_{78}	16.6	X	246.18260	256.75249	343.93705	7.28832	0.0795201	0.27297810	2.3535179	20	—	—
301624	2010 EJ_{2}	15.4	X	312.04515	45.19414	177.17582	27.19186	0.0563347	0.17687196	3.1431375	20	2 17.7	20.0
301625	2010 EC_{21}	17.2	X	238.08055	212.87246	63.86151	3.66533	0.2143122	0.27817747	2.3240997	20	1 10.6	21.1
301626	2010 ER_{27}	15.7	X	246.87144	95.72253	213.77946	14.75600	0.1426251	0.17762156	3.1342882	20	3 6.8	20.8
301627	2010 EP_{28}	16.0	X	261.61039	94.95313	154.78166	17.96985	0.1340830	0.16918960	3.2375783	20	1 16.7	21.2
301628	2010 ED_{29}	16.9	X	46.63210	254.62218	176.86674	11.78301	0.0145039	0.27386342	2.3484430	20	—	—
301629	2010 EQ_{29}	17.7	X	239.91735	255.37894	347.69027	1.93516	0.1802381	0.27026510	2.3692419	20	—	—
301630	2010 ET_{29}	16.5	X	202.77753	177.91675	69.03697	7.46208	0.1537320	0.26314222	2.4118059	20	—	—
301631	2010 EN_{38}	15.7	X	346.55554	281.69906	1.77792	19.79105	0.1991405	0.21096301	2.7946784	20	6 20.5	18.9
301632	2010 EO_{38}	16.9	X	105.34669	307.04154	8.72060	19.77993	0.0593325	0.35732726	1.9667928	20	—	—
301633	2010 EF_{39}	16.8	X	227.85951	20.68660	181.41923	5.21711	0.1017804	0.25763335	2.4460650	20	—	—
301634	2010 ES_{39}	17.5	X	296.15969	222.73108	350.93514	3.75047	0.1302143	0.28058316	2.3107962	20	—	—
301635	2010 EG_{40}	17.4	X	257.10932	45.71777	183.40341	2.15342	0.1739332	0.27244125	2.3566087	20	—	—
301636	2010 EG_{41}	16.9	X	209.74015	90.71766	171.87478	6.07033	0.1078725	0.26732313	2.3865930	20	—	—
301637	2010 EX_{43}	17.4	X	287.49076	111.57114	126.46953	3.57908	0.1053321	0.28397171	2.2923768	20	1 17.4	20.4
301638	Kressin	16.1	X	5.89695	110.54502	182.28414	11.39339	0.3048278	0.21506000	2.7590715	20	9 2.8	18.3
301639	2010 EE_{69}	17.1	X	71.30140	225.80746	44.49933	4.19277	0.2436822	0.22845334	2.6501536	20	11 3.5	21.2
301640	2010 EO_{77}	17.2	X	331.16317	275.20688	336.57872	6.99532	0.0792222	0.29955921	2.2121485	20	4 7.5	19.6
301641	2010 EV_{82}	15.9	X	1.75959	252.70948	16.72249	8.39483	0.2419216	0.20995652	2.8036027	20	7 9.4	18.4
301642	2010 EN_{85}	17.5	X	228.34726	214.79787	38.94337	2.00018	0.1610727	0.26851766	2.3795097	20	—	—
301643	2010 ES_{87}	16.5	X	84.23302	65.95592	201.62558	12.62044	0.1832108	0.22749534	2.6575883	20	11 7.5	20.6
301644	2010 EJ_{89}	17.6	X	169.72526	175.63781	110.04279	2.94804	0.1888668	0.26072261	2.4267046	20	—	—
301645	2010 EB_{97}	17.1	X	242.73954	264.72701	25.09478	5.50874	0.1199679	0.28643791	2.2791998	20	2 4.6	20.4
301646	2010 EO_{100}	17.0	X	195.35660	280.07711	348.20882	9.60561	0.2272887	0.26759668	2.3849662	20	—	—
301647	2010 EL_{105}	17.3	X	251.13834	15.03602	196.09618	6.27602	0.1193233	0.26515668	2.3995751	20	—	—
301648	2010 ES_{106}	17.6	X	250.80040	82.60443	165.14559	4.12251	0.1484212	0.27441797	2.3452781	20	—	—
301649	2010 EL_{107}	18.1	X	41.06306	1.56856	189.84980	5.13473	0.0627134	0.30083722	2.2058789	20	5 12.8	20.2
301650	2010 EU_{107}	16.1	X	33.54987	264.71370	16.90367	13.91699	0.1270837	0.22025297	2.7155316	20	9 18.7	19.5
301651	2010 EQ_{109}	18.1	X	298.55199	78.22482	178.85809	2.50757	0.1350159	0.29248370	2.2476824	20	2 19.9	21.0
301652	2010 EU_{109}	17.6	X	257.51183	279.61568	1.89442	2.53091	0.1278109	0.28692880	2.2765994	20	2 7.4	20.8
301653	2010 EP_{120}	17.3	X	327.81779	283.28635	171.13976	25.04765	0.0824067	0.35953301	1.9587404	20	—	—
301654	2010 EV_{121}	17.7	X	227.42546	271.04303	314.54271	1.70529	0.1734426	0.26177309	2.4202082	20	—	—
301655	2010 EC_{127}	17.2	X	340.18934	112.66178	96.37310	6.59507	0.0990404	0.28937032	2.2637757	20	2 23.1	19.5
301656	2010 EW_{128}	18.2	X	3.44575	7.53546	202.02415	2.88530	0.1081732	0.29413245	2.2392749	20	4 1.3	19.8
301657	2010 EA_{129}	17.1	X	257.92736	13.57369	189.43117	4.62711	0.2005747	0.26377171	2.4079672	20	—	—
301658	2010 ET_{129}	16.8	X	332.96951	274.86046	357.53949	9.13910	0.2116407	0.20139329	2.8825225	20	4 29.9	20.1
301659	2010 EN_{130}	17.7	X	308.45101	18.55645	175.94456	6.83526	0.0413914	0.27521699	2.3407367	20	—	—
301660	2010 EO_{130}	17.3	X	306.84093	54.33143	187.84805	6.82716	0.0822315	0.28681376	2.2772081	20	2 18.3	20.1
301661	2010 ES_{130}	17.1	X	347.87018	18.08603	190.79642	6.50857	0.0511910	0.28988074	2.2611175	20	3 8.3	19.6
301662	2010 EO_{131}	17.9	X	243.04751	335.83064	253.82414	1.89885	0.1286731	0.26758147	2.3850566	20	—	—
301663	2010 EY_{132}	16.6	X	149.18678	328.47573	355.40494	6.86273	0.1307548	0.26509361	2.3999556	20	—	—
301664	2010 ET_{133}	16.9	X	61.88938	302.98567	347.23908	7.34990	0.1511229	0.23048142	2.6345843	20	11 5.1	20.8
301665	2010 EZ_{133}	16.3	X	79.10611	280.05229	357.45950	11.37693	0.2103289	0.23292533	2.6161235	20	11 13.0	20.6
301666	2010 EZ_{135}	17.0	X	124.84575	105.03518	135.71770	4.81103	0.0485872	0.23868154	2.5738910	20	11 9.5	20.6
301667	2010 EV_{137}	16.5	X	87.19528	272.63833	21.89933	7.44941	0.1837227	0.23634554	2.5908232	20	12 12.2	20.7
301668	2010 ED_{138}	17.2	X	209.18105	242.72671	26.20672	2.62247	0.1429959	0.26636764	2.3922969	20	—	—
301669	2010 EG_{138}	16.9	X	94.10922	126.94593	136.22670	1.61368	0.1382474	0.23466572	2.6031725	20	11 8.4	20.7
301670	2010 EP_{138}	17.6	X	221.06618	108.27872	129.82625	2.32961	0.1680356	0.26171097	2.4205911	20	—	—
301671	2010 FQ_{12}	17.1	X	85.27140	27.14766	241.78782	0.79512	0.1726023	0.23381678	2.6094698	20	11 8.9	21.0
301672	2010 FS_{12}	16.9	X	231.42375	32.74260	200.18662	6.45953	0.1430033	0.26351492	2.4095313	20	—	—
301673	2010 FB_{13}	17.6	X	212.51903	262.44964	21.09124	1.42599	0.1752792	0.26784640	2.3834836	20	—	—
301674	2010 FE_{13}	16.2	X	132.71137	9.80344	200.28333	6.11619	0.1994862	0.23100849	2.6305754	20	10 12.0	20.5
301675	2010 FG_{15}	17.8	X	352.35943	182.37064	33.61128	7.37180	0.0712555	0.29205457	2.2498836	20	3 27.8	20.0
301676	2010 FB_{16}	17.7	X	311.99199	200.24265	353.94340	4.37239	0.1586084	0.27820565	2.3239427	20	—	—
301677	2010 FC_{30}	18.0	X	7.18239	157.12390	25.85371	4.22741	0.0816255	0.28915526	2.2648980	20	3 2.8	20.1
301678	2010 FO_{47}	17.2	X	110.06666	193.28497	72.81652	2.13962	0.1521738	0.23964135	2.5670138	20	11 28.4	21.1
301679	2010 FA_{48}	17.2	X	241.11456	144.52390	153.78121	3.22098	0.1714226	0.28280631	2.2986701	20	2 8.9	20.8
301680	2010 FS_{54}	17.5	X	327.56937	358.15694	192.53480	6.76033	0.0588664	0.28048790	2.3113194	20	1 12.7	20.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
301681 2010 FY_{55}	18.1	X	219.85133	119.89141	109.06057	2.99456	0.1688466	0.25898868	2.4375238	20	—	—
301682 2010 FX_{56}	17.4	X	275.68033	139.97612	137.19695	3.24547	0.2060925	0.28634364	2.2797000	20	2 12.6	20.5
301683 2010 FX_{82}	17.0	X	183.83276	220.59375	83.51810	2.78659	0.1907390	0.26959668	2.3731564	20	—	—
301684 2010 FM_{83}	16.6	X	108.97024	169.08888	85.46326	4.73009	0.1281811	0.23332851	2.6131089	20	11 12.1	20.6
301685 2010 FA_{84}	16.4	X	39.27777	274.53096	8.21795	14.27631	0.1758128	0.22355330	2.6887391	20	10 2.6	19.7
301686 2010 FQ_{84}	17.3	X	348.20144	73.20539	126.33145	3.14939	0.1049860	0.28818439	2.2699820	20	2 19.8	19.6
301687 2010 FE_{86}	16.2	X	248.80531	274.67926	1.38021	9.71069	0.2958654	0.17693663	3.1423716	20	1 26.7	21.8
301688 2010 FD_{88}	17.0	X	233.24104	116.94706	173.16657	5.59672	0.1164298	0.27671341	2.3322901	20	1 24.4	20.4
301689 2010 FV_{88}	16.5	X	353.98366	55.56951	167.62398	9.51662	0.2157693	0.19561291	2.9390324	20	4 9.1	19.4
301690 2010 FE_{89}	17.3	X	161.64554	122.86272	180.99757	3.18036	0.1344336	0.26567874	2.3964305	20	—	—
301691 2010 FT_{91}	17.2	X	229.10481	10.25471	199.47710	10.63991	0.1381150	0.25474496	2.4645198	20	—	—
301692 2010 FY_{91}	16.5	X	117.21112	97.57468	223.02814	6.28505	0.1259015	0.25564234	2.4587490	20	—	—
301693 2010 FK_{92}	16.5	X	114.00813	230.57653	353.74307	9.74757	0.1849013	0.22907713	2.6453404	20	10 10.0	20.8
301694 2010 FL_{92}	17.6	X	26.65937	92.32170	159.86924	3.98343	0.1412554	0.31052250	2.1597691	20	8 4.1	19.4
301695 2010 FP_{95}	17.0	X	236.23478	331.25875	336.29274	2.66267	0.1688444	0.28230090	2.3014129	20	2 16.7	20.5
301696 2010 FN_{101}	17.1	X	312.59230	332.57071	236.12824	5.08446	0.0877748	0.27999587	2.3140264	20	1 12.4	19.9
301697 2010 GQ_{7}	17.0	X	85.98372	57.42745	189.84425	10.47599	0.1273196	0.22328750	2.6908724	20	10 7.9	21.0
301698 2010 GY_{24}	15.2	X	70.57657	194.87765	106.32380	15.99449	0.2525855	0.22876099	2.6477770	20	12 12.2	19.6
301699 2010 GV_{25}	17.2	X	266.14389	44.54623	183.76566	6.33400	0.0897090	0.27256350	2.3559040	20	—	—
301700 2010 GH_{26}	16.6	X	118.28878	152.92911	94.63921	4.39899	0.1720465	0.23364532	2.6107462	20	11 14.4	20.9
301701 2010 GJ_{26}	17.1	X	175.13074	233.64290	50.56237	7.49233	0.0951725	0.25685507	2.4510036	20	—	—
301702 2010 GU_{27}	17.1	X	236.60757	118.59301	119.39815	5.46492	0.0934491	0.26182977	2.4198588	20	—	—
301703 2010 GV_{27}	15.9	X	257.70105	75.04825	207.74037	14.08330	0.1429388	0.17933473	3.1142953	20	2 14.7	20.9
301704 2010 GW_{28}	16.8	X	75.07417	141.51715	125.67652	14.27966	0.2349625	0.22373679	2.6872688	20	11 7.2	21.3
301705 2010 GZ_{28}	17.8	X	306.80865	350.75090	200.36544	1.81520	0.1312632	0.27298914	2.3534545	20	—	—
301706 2010 GB_{29}	17.3	X	303.28713	317.09643	224.23340	5.68971	0.0434035	0.26831105	2.3807311	20	—	—
301707 2010 GQ_{29}	16.9	X	281.74703	148.24876	69.54283	4.93324	0.1701488	0.27246686	2.3564610	20	—	—
301708 2010 GB_{31}	17.3	X	206.83975	60.47904	175.71778	6.63148	0.0779999	0.25955281	2.4339906	20	—	—
301709 2010 GW_{31}	16.6	X	11.86911	98.21541	192.69968	10.65863	0.2008677	0.21013341	2.8020291	20	8 26.9	19.7
301710 2010 GU_{32}	16.9	X	81.85845	83.65582	172.97525	7.50766	0.2275181	0.22516912	2.6758607	20	10 27.4	21.2
301711 2010 GW_{66}	17.5	X	310.80354	348.99486	213.14284	2.17888	0.1065220	0.27721527	2.3294745	20	—	—
301712 2010 GZ_{71}	14.9	X	72.13311	108.68141	9.68131	23.69156	0.0863774	0.17302484	3.1895574	20	3 29.5	19.2
301713 2010 GD_{97}	17.0	X	97.71728	73.84052	147.13165	5.86143	0.0504319	0.22133084	2.7067081	20	9 9.1	20.6
301714 2010 GF_{97}	17.0	X	128.45772	93.49811	193.33159	11.43509	0.1831558	0.24214940	2.5492579	20	—	—
301715 2010 GD_{99}	16.8	X	103.57939	222.57569	60.34553	5.05007	0.1130913	0.24100596	2.5573148	20	12 10.6	20.6
301716 2010 GK_{100}	16.9	X	235.39133	203.37529	72.67789	3.02129	0.1067714	0.27106086	2.3646027	20	1 11.4	20.4
301717 2010 GK_{103}	16.7	X	116.68728	82.19303	184.28841	11.30360	0.1788792	0.23514906	2.5996042	20	12 5.9	21.2
301718 2010 GE_{104}	17.2	X	59.16478	75.97506	189.69710	8.91475	0.1156414	0.22369363	2.6876145	20	9 27.5	20.9
301719 2010 GO_{104}	17.7	X	239.17914	195.41911	25.40793	5.34094	0.0636562	0.26320674	2.4114118	20	—	—
301720 2010 GB_{105}	17.2	X	269.68380	64.95983	186.99465	2.53166	0.0934136	0.27772063	2.3266477	20	1 16.7	20.4
301721 2010 GR_{107}	17.4	X	186.20139	349.26580	248.09499	2.59101	0.1304872	0.25167177	2.4845422	20	—	—
301722 2010 GQ_{113}	18.2	X	215.44895	258.32555	332.20254	0.97283	0.1335254	0.25688661	2.4508030	20	—	—
301723 2010 GZ_{113}	17.6	X	3.13581	344.04906	212.19472	6.67988	0.0855202	0.28934357	2.2639152	20	3 10.9	20.0
301724 2010 GL_{114}	17.2	X	175.73939	176.19172	34.55591	2.78994	0.1268141	0.24174369	2.5521094	20	11 22.9	21.1
301725 2010 GZ_{114}	17.1	X	183.54474	272.27707	26.11627	6.76523	0.1350177	0.26281804	2.4137888	20	—	—
301726 2010 GB_{116}	16.4	X	77.74446	169.54749	77.09396	10.72959	0.0923870	0.22240342	2.6979987	20	9 28.9	20.4
301727 2010 GK_{119}	16.9	X	120.17702	65.60476	218.92629	12.38085	0.1635981	0.24206035	2.5498831	20	12 28.7	21.2
301728 2010 GB_{120}	16.6	X	84.28141	128.31815	193.63351	14.43515	0.1994574	0.23912452	2.5707113	20	—	—
301729 2010 GR_{120}	16.6	X	34.30071	82.38889	187.51674	9.46219	0.1810760	0.21402466	2.7679623	20	9 5.3	20.0
301730 2010 GU_{126}	17.1	X	306.11145	141.34287	297.55025	0.95807	0.0444003	0.24191264	2.5509210	20	11 30.4	20.1
301731 2010 GT_{127}	16.7	X	84.01360	140.20139	148.35592	5.16229	0.0964252	0.23312781	2.6146085	20	11 25.7	20.6
301732 2010 GF_{131}	17.0	X	97.44743	332.18023	55.50516	7.76443	0.1390649	0.26584658	2.3954218	20	1 1.0	19.8
301733 2010 GA_{137}	16.7	X	64.42962	143.09550	178.90845	3.14163	0.1435184	0.24677468	2.5173039	20	12 22.5	20.4
301734 2010 GL_{141}	16.4	X	74.88470	160.64623	150.01900	10.41512	0.2054097	0.23793240	2.5792909	20	12 23.5	20.6
301735 2010 GJ_{144}	17.4	X	81.19605	175.83927	139.02679	1.15024	0.1536770	0.24025765	2.5626221	20	12 30.2	21.2
301736 2010 GV_{144}	17.8	X	259.81454	234.32113	27.87816	2.34282	0.0882673	0.28078202	2.3097050	20	1 20.0	21.0
301737 2010 GK_{156}	17.5	X	28.54480	28.81623	171.76864	4.44724	0.0825622	0.29742382	2.2227241	20	5 7.3	19.6
301738 2010 GH_{157}	17.5	X	3.50145	99.36673	68.50723	5.08660	0.1289210	0.28188392	2.3036819	20	1 30.1	19.7
301739 2010 GV_{157}	16.4	X	300.19932	56.76842	174.40413	8.00712	0.2310822	0.18136752	3.0909812	20	1 21.1	21.1
301740 2010 GZ_{157}	16.2	X	56.41632	189.12462	49.90364	10.13598	0.1092733	0.21408437	2.7674476	20	8 22.6	20.0
301741 2010 GE_{160}	16.2	X	146.86428	320.19174	299.45878	9.02434	0.1314661	0.24562708	2.5251386	20	12 25.8	20.2
301742 2010 GS_{160}	16.2	X	168.74945	13.89003	180.42475	15.26333	0.1130708	0.23616145	2.5921694	20	10 29.3	20.3
301743 2010 GU_{161}	15.9	X	0.82496	209.28816	83.74784	10.15685	0.1469886	0.21277445	2.7787943	20	8 8.6	19.0
301744 2010 HV_{64}	15.4	X	147.42589	279.69519	123.63031	11.06164	0.0185803	0.16846465	3.2468597	20	3 24.9	20.2
301745 2010 HN_{79}	17.2	X	264.96889	189.60881	64.12584	2.56651	0.0916844	0.27615339	2.3354422	20	1 15.1	20.3
301746 2010 HQ_{79}	16.7	X	70.93081	325.14754	278.36253	2.27327	0.0903902	0.22111327	2.7084834	20	9 8.5	20.3
301747 2010 HK_{80}	16.7	X	160.68330	343.67874	216.72065	6.35331	0.1453936	0.23575705	2.5951328	20	10 25.1	20.8
301748 2010 HQ_{103}	17.7	X	202.85906	238.15921	45.28303	3.00108	0.1789964	0.26638949	2.3921661	20	—	—
301749 2010 HT_{103}	15.9	X	323.98269	265.34523	55.77694	15.70302	0.1664399	0.20590053	2.8403013	20	7 1.7	19.2
301750 2010 HM_{105}	15.7	X	215.87871	180.33801	142.77569	10.44315	0.2817919	0.17745910	3.1362008	20	2 24.1	21.2
301751 2010 HF_{107}	17.1	X	108.02329	227.30539	51.51336	4.02841	0.1105247	0.23872101	2.5736073	20	12 9.4	20.9
301752 2010 JL	15.7	X	63.54165	182.11266	71.43935	15.36070	0.0897742	0.22025982	2.7154753	20	9 22.5	19.7
301753 2010 JZ	13.8	X	298.68905	154.20538	154.81656	10.85573	0.0604668	0.08266729	5.2189151	20	5 23.9	20.7
301754 2010 JQ_{29}	16.6	X	52.65948	86.00620	169.07459	13.14754	0.1765122	0.21435012	2.7651597	20	9 13.3	20.2
301755 2010 JL_{30}	17.4	X	91.68972	101.45627	213.54631	8.51986	0.0622057	0.24111216	2.5565638	20	—	—
301756 2010 JU_{30}	16.3	X	168.33124	98.16459	221.53693	8.55381	0.1328442	0.26581687	2.3956003	20	—	—
301757 2010 JW_{30}	16.1	X	80.57604	334.72007	219.66825	11.69936	0.2307922	0.21370396	2.7707308	20	8 2.4	20.4
301758 2010 JA_{34}	16.4	X	132.81158	90.03499	167.99121	4.15097	0.1761388	0.23652791	2.5894913	20	12 9.1	20.6
301759 2010 JL_{35}	17.0	X	147.44228	277.97525	50.87006	2.89310	0.1921017	0.26415680	2.4056264	20	—	—
301760 2010 JP_{42}	12.8	X	319.03705	283.36658	4.78542	18.97293	0.1204370	0.08351679	5.1834650	20	5 9.6	19.5

ELEMENTS AND OPPOSITION DATES IN 2020

ECLIPTIC AND EQUINOX 2000.0, EPOCH 2020 MAY 31.0 TT

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
301761 2010 JL_{43}	16.1	X	340.54481	268.25942	62.84206	15.71286	0.2085277	0.21078802	2.7962249	20	8 30.4	19.1
301762 2010 JM_{43}	16.8	X	90.49474	68.10806	218.54124	12.04408	0.1636919	0.23119661	2.6291482	20	12 4.5	21.0
301763 2010 JB_{44}	16.4	X	146.37866	353.17952	241.40596	4.78840	0.0919134	0.23659295	2.5890167	20	11 23.5	20.3
301764 2010 JQ_{44}	17.4	X	134.01507	328.31415	250.24377	1.11702	0.0772731	0.23030463	2.6359324	20	10 20.1	21.2
301765 2010 JQ_{45}	16.5	X	12.46779	112.10703	212.97612	11.87118	0.1264616	0.22022178	2.7157880	20	10 9.4	19.6
301766 2010 JU_{48}	15.9	X	208.08769	154.51842	151.36010	12.67217	0.0420041	0.17339239	3.1850483	20	2 1.6	20.6
301767 2010 JX_{73}	16.5	X	345.92112	251.12207	60.61395	4.46980	0.1038910	0.21141302	2.7907112	20	8 5.0	19.7
301768 2010 JD_{79}	16.2	X	255.99759	274.56988	110.33979	7.04899	0.1390013	0.20558794	2.8431796	20	6 21.6	20.2
301769 2010 JZ_{81}	15.6	X	235.66834	114.38666	180.16428	10.82141	0.1402628	0.17633678	3.1494940	20	2 10.3	20.8
301770 2010 JK_{87}	16.4	X	135.11827	19.71582	236.70882	14.53474	0.1005034	0.23699556	2.5860837	20	12 8.7	20.3
301771 2010 JD_{117}	15.9	X	16.79679	91.76679	215.86208	13.93971	0.1133644	0.21677518	2.7444986	20	9 17.4	19.5
301772 2010 JK_{120}	16.4	X	343.62937	167.34833	145.04653	8.37322	0.2790102	0.20435661	2.8545891	20	7 25.3	18.5
301773 2010 JC_{121}	16.1	X	347.28135	221.69372	107.86755	10.50239	0.1620491	0.21229298	2.7829942	20	9 6.6	19.1
301774 2010 JD_{121}	15.3	X	352.27579	204.39309	88.91430	16.50672	0.1268661	0.20580017	2.8412245	20	7 19.6	18.6
301775 2010 JW_{121}	16.3	X	9.42054	234.79916	96.94338	12.24296	0.1272372	0.22271562	2.6954768	20	10 22.3	19.7
301776 2010 JQ_{122}	16.7	X	130.90730	28.64417	156.72018	6.45481	0.0834857	0.21914154	2.7247055	20	9 3.9	20.7
301777 2010 JG_{147}	16.5	X	265.68132	112.79111	184.14466	6.74401	0.2452320	0.18332421	3.0689478	20	3 2.7	21.4
301778 2010 JK_{148}	16.9	X	6.34851	357.48370	102.63514	6.28971	0.0854412	0.26248087	2.4158554	20	—	—
301779 2010 JL_{149}	16.1	X	145.19665	56.28223	178.95527	14.27024	0.1203717	0.23735994	2.5834364	20	11 25.0	20.3
301780 2010 JK_{153}	16.0	X	208.14878	296.93646	232.92400	13.77223	0.0773682	0.23648454	2.5898079	20	11 11.0	19.5
301781 2010 JZ_{159}	17.1	X	68.18901	142.15574	133.37742	4.30097	0.0704391	0.22618990	2.6678039	20	10 17.9	20.8
301782 2010 JP_{165}	16.5	X	343.02791	253.67590	73.25863	5.35006	0.0686399	0.21511021	2.7586421	20	8 23.0	19.9
301783 2010 JB_{167}	16.7	X	269.61143	139.51391	203.47713	10.71822	0.1088634	0.19802805	2.9150874	20	5 19.8	20.9
301784 2010 JS_{170}	16.5	X	335.30104	118.21339	166.14494	6.02920	0.0512160	0.20131894	2.8832323	20	6 10.6	20.2
301785 2010 KV_{8}	16.6	X	233.69236	355.79478	155.37779	5.49007	0.0684456	0.23861431	2.5743745	20	11 22.1	20.0
301786 2010 KD_{9}	16.6	X	244.84904	67.42602	210.67638	7.46191	0.1079236	0.27462282	2.3441117	20	1 20.9	20.2
301787 2010 KE_{62}	16.1	X	120.98108	11.26303	248.66138	9.02871	0.1703348	0.23798662	2.5788991	20	11 30.9	20.2
301788 2010 KF_{127}	16.5	X	201.47983	236.18913	335.60367	3.53584	0.1839865	0.24600744	2.5225351	20	12 15.7	20.4
301789 2010 KG_{128}	17.2	X	265.49844	27.35891	233.68603	5.85278	0.0982491	0.27301271	2.3533190	20	1 22.8	20.5
301790 2010 LO_{1}	16.1	X	184.17644	243.96226	331.92548	3.39979	0.1782611	0.24200692	2.5502584	20	12 3.3	20.2
301791 2010 LQ_{14}	16.8	X	12.10146	175.36418	186.69295	8.15536	0.0627115	0.23086640	2.6316547	20	11 24.3	20.2
301792 2010 LX_{14}	17.3	X	311.82281	25.12239	186.60134	6.70726	0.0608834	0.27392782	2.3480749	20	1 20.2	20.4
301793 2010 LA_{15}	16.6	X	142.70520	126.31880	108.58667	9.56845	0.0619566	0.23412229	2.6071992	20	11 22.4	20.5
301794 Antoninkapustin	15.6	X	258.09584	68.03646	223.12983	25.03993	0.1448036	0.17458827	3.1704872	20	2 21.3	20.9
301795 2010 LG_{107}	16.6	X	205.67214	64.29953	130.46493	6.44032	0.0969503	0.24161455	2.5530187	20	12 9.3	20.2
301796 2010 OW_{41}	15.1	X	169.04553	285.24395	17.92863	14.23041	0.1489978	0.16235304	3.3278400	20	—	—
301797 2010 OL_{83}	16.0	X	237.46725	115.35299	171.45914	11.18567	0.1861391	0.17567629	3.1573831	20	1 31.8	21.4
301798 2010 OT_{84}	17.3	X	108.21314	69.10929	174.03319	3.88367	0.1540246	0.23016770	2.6369778	20	10 29.4	21.3
301799 2010 RW_{70}	17.6	X	227.86386	231.28279	140.34119	3.87600	0.1669020	0.26762496	2.3847982	20	5 2.8	21.2
301800 2011 BL_{60}	16.0	X	304.19209	211.35610	28.28988	14.77591	0.0297840	0.22368498	2.6876837	20	3 7.6	19.8
301801 2011 BT_{79}	17.1	X	145.77170	33.90097	199.20103	4.74817	0.1781640	0.27540984	2.3396438	20	11 26.5	20.9
301802 2011 BS_{100}	16.8	X	52.05222	234.44947	285.01150	2.05207	0.0803489	0.23013030	2.6372634	20	4 17.1	20.0
301803 2011 MM_{2}	15.5	X	212.85344	134.27004	171.33808	11.96552	0.0460689	0.17654311	3.1470395	20	2 5.1	20.3
301804 2011 MT_{5}	17.2	X	162.78805	181.20794	127.94223	8.06266	0.2738604	0.27346371	2.3507309	20	—	—
301805 2011 MX_{6}	17.3	X	186.94788	221.95714	109.24978	8.50089	0.1659936	0.28661171	2.2782782	20	2 1.7	20.7
301806 2011 MP_{8}	17.0	X	126.53805	9.06327	295.15705	4.03383	0.2075348	0.26230467	2.4169372	20	—	—
301807 2011 NQ_{2}	16.1	X	335.96594	190.81171	150.09887	13.77142	0.0665469	0.22205111	2.7008517	20	8 30.2	19.2
301808 2011 OO_{10}	16.5	X	291.54696	137.97138	169.86150	7.97360	0.3108413	0.20148554	2.8816427	20	4 3.2	20.6
301809 2011 OG_{12}	17.4	X	68.30200	71.64385	287.05075	4.61305	0.1021269	0.25747098	2.4470933	20	—	—
301810 2011 OW_{14}	17.3	X	123.88321	77.20770	244.49696	0.49944	0.2091065	0.26194076	2.4191752	20	—	—
301811 2011 OE_{20}	17.9	X	261.00415	347.89872	323.57709	4.51777	0.1840971	0.30319136	2.1944457	20	3 12.2	20.9
301812 2011 OW_{24}	16.5	X	29.12691	179.70710	148.10824	16.73470	0.2418626	0.23495103	2.6010646	20	12 3.4	20.2
301813 2011 OA_{25}	17.1	X	139.64830	196.95575	148.22622	7.94633	0.2613492	0.27168543	2.3609773	20	1 14.3	20.6
301814 2011 PJ_{3}	15.2	X	203.58442	215.61339	114.82614	18.41434	0.1899173	0.17725392	3.1386205	20	2 28.2	20.6
301815 2011 PF_{4}	16.8	X	201.84606	346.93022	317.76400	6.18052	0.1809340	0.28421619	2.2910620	20	1 13.9	20.3
301816 2011 PO_{4}	16.4	X	116.16911	125.14820	178.92195	6.39876	0.1449199	0.25822683	2.4423157	20	—	—
301817 2011 PB_{6}	17.8	X	51.11606	164.65032	163.17113	10.24685	0.2096130	0.23816127	2.5776382	20	12 21.7	21.7
301818 2011 PC_{6}	16.3	X	211.29368	185.56440	163.46268	12.98009	0.2398298	0.17986725	3.1081453	20	3 22.7	21.7
301819 2011 PE_{6}	16.0	X	239.26237	319.64022	329.81572	9.49821	0.1804740	0.17573435	3.1566876	20	2 8.2	21.2
301820 2011 PK_{8}	17.1	X	169.56367	293.89128	326.40350	5.87935	0.1717000	0.25816466	2.4427078	20	—	—
301821 2011 PP_{8}	16.2	X	263.15106	142.41211	169.44415	12.02531	0.1302935	0.18728651	3.0255085	20	4 1.4	20.7
301822 2011 PB_{9}	17.9	X	288.41868	1.58642	255.67375	2.23376	0.1404569	0.29369058	2.2415205	20	2 6.3	20.8
301823 2011 PC_{9}	17.7	X	333.13260	215.51505	206.39484	3.53032	0.1709773	0.23555257	2.5966344	20	12 24.6	20.3
301824 2011 PE_{9}	16.5	X	194.95379	250.90040	170.32334	10.59034	0.1336017	0.19278238	2.9677307	20	6 5.1	21.4
301825 2011 PK_{9}	17.7	X	78.70930	106.73040	198.59922	1.54049	0.1750449	0.24137788	2.5546872	20	12 18.4	21.5
301826 2011 PS_{9}	16.8	X	158.16552	35.86884	282.55264	1.62812	0.1981766	0.26965452	2.3728170	20	—	—
301827 2011 QY_{1}	16.5	X	13.75509	305.48009	328.74707	4.18108	0.1304496	0.21139601	2.7908609	20	8 1.7	19.5
301828 2011 QM_{7}	15.9	X	136.46068	253.32169	166.65453	8.23714	0.0835906	0.18250549	3.0781191	20	4 4.3	20.4
301829 2011 QG_{8}	16.8	X	74.88957	103.21403	153.06953	17.04153	0.1794186	0.23443856	2.6048538	20	10 19.3	20.9
301830 2011 QF_{12}	18.0	X	61.30132	262.20640	138.79839	2.74358	0.1678992	0.25704042	2.4498252	20	—	—
301831 2011 QH_{14}	17.3	X	191.32831	162.92330	184.38242	6.14726	0.2170216	0.28801831	2.2708545	20	2 24.9	21.0
301832 2011 QT_{16}	17.4	X	122.89240	129.55262	291.23762	2.17399	0.2087101	0.28214029	2.3022862	20	3 25.9	20.6
301833 2011 QY_{24}	17.2	X	81.64597	60.63215	271.63177	2.05747	0.0557693	0.24685615	2.5167500	20	—	—
301834 2011 QT_{33}	15.8	X	219.33691	5.58707	330.56815	10.66774	0.1301100	0.18065448	3.0991093	20	3 13.9	20.7
301835 2011 QY_{49}	15.3	X	341.55716	325.43768	358.58395	16.64887	0.2802060	0.21422554	2.7662317	20	8 19.3	17.5
301836 2011 RQ_{1}	16.4	X	219.12685	337.94097	191.68941	5.98808	0.0578805	0.23858253	2.5746031	20	11 28.3	19.8
301837 5581 P–L	16.6	X	19.73997	328.94924	39.99956	4.81477	0.2304795	0.23212105	2.6221631	20	—	—
301838 6226 P–L	15.5	X	159.80584	59.64175	354.81783	21.38789	0.2285709	0.17453661	3.1711128	20	4 18.9	21.2
301839 1488 T–2	18.1	X	197.25643	192.95858	186.23822	0.48239	0.2152589	0.28680192	2.2772708	20	4 10.8	22.0
301840 4212 T–3	15.8	X	174.33732	357.31283	46.35985	12.52456	0.2079568	0.17423939	3.1747179	20	4 26.9	21.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
301841 4260 *T–3*	16.3	X	60.98805	273.55173	39.96503	13.57233	0.1936371	0.23220783	2.6215097	20	12 9.1	20.3
301842 1980 FG_4	14.2	X	268.03307	94.36416	354.63376	29.99786	0.4032149	0.21145954	2.7903019	20	8 31.4	18.4
301843 1981 DZ_2	15.5	X	97.72857	311.02281	200.95771	20.40862	0.2864066	0.18010697	3.1053868	20	7 3.4	20.9
301844 1990 *UA*	19.6	X	58.13537	202.57365	104.26659	0.92843	0.5262151	0.46845096	1.6419501	20	—	—
301845 1992 SS_4	16.6	X	40.45416	275.63598	21.09067	8.86669	0.1556791	0.21278082	2.7787389	20	10 17.5	20.3
301846 1993 OV_1	17.0	X	191.41908	324.44191	310.43499	11.25494	0.4370915	0.27543683	2.3394910	20	—	—
301847 1994 AE_5	17.7	X	123.40782	59.39200	334.22861	1.53510	0.2190652	0.26846301	2.3798326	20	2 23.8	20.9
301848 1994 PQ_3	16.3	X	251.54713	174.49450	153.91446	3.62080	0.2459343	0.18056504	3.1001326	20	3 29.2	21.4
301849 1994 SC_7	17.6	X	133.39548	60.13520	13.33699	4.33003	0.1181641	0.28895243	2.2659578	20	4 13.4	20.5
301850 1994 TE_8	16.5	X	168.07669	23.63529	58.77317	1.93818	0.1666893	0.17682071	3.1437449	20	6 4.8	21.6
301851 1994 UF_8	17.0	X	64.85247	22.10677	323.25385	2.21390	0.0402161	0.23322463	2.6138848	20	—	—
301852 1994 WP_4	16.7	X	279.73033	313.04357	143.83863	6.37638	0.0501330	0.22705376	2.6610329	20	11 14.5	20.2
301853 1994 WU_4	16.4	X	326.25083	319.06613	96.90452	10.00585	0.1208426	0.22807704	2.6530677	20	11 29.3	19.3
301854 1995 BS_{14}	17.2	X	336.69826	276.70280	306.32279	5.08795	0.1936794	0.27698355	2.3307735	20	2 20.5	19.7
301855 1995 CY_1	16.2	X	10.56177	250.20787	281.32432	22.80936	0.2380858	0.27443852	2.3451610	20	1 29.3	18.2
301856 1995 ES_4	16.9	X	276.25150	284.95023	147.26308	4.16606	0.0728966	0.21575573	2.7531370	20	10 1.9	20.4
301857 1995 MV_2	17.0	X	325.71928	36.93522	147.84952	6.55801	0.1951717	0.26771701	2.3842516	20	—	—
301858 1995 QX_{15}	16.5	X	196.64399	171.17790	256.90508	8.38548	0.0195855	0.19004721	2.9961374	20	6 18.5	20.8
301859 1995 SV_{10}	15.5	X	264.18428	358.77263	12.21210	10.26452	0.1213817	0.18860523	3.0113893	20	6 14.4	20.0
301860 1995 SW_{35}	17.4	X	113.29826	26.60320	313.77849	0.48379	0.0270352	0.25053818	2.4920310	20	—	—
301861 1995 SG_{50}	16.5	X	271.13651	147.38984	225.54936	2.62731	0.0485864	0.18917609	3.0053280	20	7 7.2	20.7
301862 1995 SO_{62}	16.8	X	189.57134	276.61085	151.95383	2.88118	0.0616873	0.18665720	3.0323050	20	6 9.5	21.4
301863 1995 SP_{69}	16.8	X	161.01239	106.10810	349.12607	6.15830	0.0859869	0.18730475	3.0253121	20	6 11.3	21.5
301864 1995 SK_{80}	15.7	X	60.25770	143.76642	230.48274	1.17418	0.2130710	0.12623795	3.9355862	20	—	—
301865 1995 SM_{80}	16.3	X	287.86412	277.80293	17.24165	11.45573	0.0960722	0.18395310	3.0619492	20	4 12.1	20.4
301866 1995 TR_8	15.9	X	158.99134	98.36239	17.38074	18.29220	0.0824217	0.18654307	3.0335416	20	7 7.9	20.9
301867 1995 UR_{17}	16.5	X	187.05919	156.99742	274.15084	2.31169	0.0969013	0.18630168	3.0361614	20	6 8.9	21.3
301868 1995 UW_{50}	15.3	X	61.01338	154.45127	213.69086	4.91313	0.2831061	0.12694218	3.9210172	20	—	—
301869 1995 VZ_2	16.6	X	217.12656	342.39298	48.20324	2.46113	0.2423335	0.18458624	3.0549434	20	5 12.6	21.7
301870 1995 WE_{10}	15.6	X	26.75770	76.60638	329.85019	1.85951	0.2123780	0.12311285	4.0019083	20	—	—
301871 1995 WH_{20}	16.4	X	275.79189	120.18370	212.04574	10.07306	0.0816334	0.18329408	3.0692841	20	5 17.6	20.7
301872 1995 WV_{21}	16.9	X	162.31596	170.36570	110.60642	4.67805	0.1820256	0.24589676	2.5232920	20	—	—
301873 1995 WX_{24}	16.0	X	212.40669	138.75326	253.24056	9.83661	0.0789411	0.18260172	3.0770376	20	5 18.3	20.7
301874 1995 WV_{38}	16.5	X	197.76940	52.02379	29.81766	9.61752	0.1272747	0.18523789	3.0477745	20	7 2.8	21.4
301875 1996 BN_{12}	16.8	X	25.23805	336.27022	68.40893	4.37802	0.2332138	0.23786297	2.5797928	20	—	—
301876 1996 EA_7	16.3	X	344.91624	87.95755	350.96417	14.91097	0.1136484	0.23356208	2.6113665	20	—	—
301877 1996 JZ_9	17.2	X	66.47116	309.84737	218.31125	8.38769	0.1095319	0.28835422	2.2690906	20	5 27.0	19.6
301878 1996 VU_{39}	17.8	X	175.51704	260.45822	69.63010	3.62103	0.2037958	0.26483114	2.4015411	20	1 25.4	21.6
301879 1997 HK_{13}	15.0	X	148.59620	280.38833	213.50262	16.94966	0.2377357	0.18034963	3.1026007	20	7 18.4	20.7
301880 1997 HT_{15}	15.8	X	158.76120	85.65076	34.65157	21.80643	0.1955614	0.18040112	3.1020102	20	7 16.9	21.4
301881 1997 TV_{21}	16.6	X	274.12041	53.04883	26.91984	6.44583	0.1127907	0.21235772	2.7824285	20	10 2.7	20.1
301882 1998 BN_{36}	17.7	X	310.23272	224.94591	315.01037	1.57575	0.1448391	0.26302586	2.4125172	20	—	—
301883 1998 EQ_9	16.3	X	253.86698	80.22166	138.83664	5.00417	0.2129458	0.25753558	2.4466840	20	—	—
301884 1998 KB_3	15.1	X	241.45397	90.77972	225.19146	22.14288	0.1657039	0.17465950	3.1696252	20	3 5.0	20.5
301885 1998 QV_2	16.2	X	86.62709	311.02665	313.61125	17.28184	0.3364605	0.23382916	2.6093776	20	11 12.3	21.2
301886 1998 QY_4	16.7	X	61.60490	355.16597	315.64546	15.47956	0.3076926	0.23277474	2.6172517	20	12 21.0	21.2
301887 1998 QX_{23}	16.6	X	31.81527	79.65633	272.01437	2.97719	0.3239072	0.23131182	2.6282751	20	—	—
301888 1998 QC_{28}	17.0	X	20.99090	32.81197	354.62485	6.17489	0.2013730	0.23239905	2.6200715	20	—	—
301889 1998 QH_{85}	16.0	X	45.82964	85.12401	246.63427	11.31414	0.1817896	0.23132494	2.6281758	20	12 15.4	19.7
301890 1998 QO_{94}	15.8	X	60.88258	339.76863	337.06776	15.57535	0.2268068	0.23235946	2.6203691	20	12 18.9	20.1
301891 1998 QP_{95}	16.6	X	34.19374	101.11491	263.69578	6.54401	0.2421503	0.23259537	2.6185970	20	—	—
301892 1998 QL_{98}	15.1	X	62.86464	307.12947	10.16501	31.50189	0.2768998	0.23128379	2.6284875	20	12 25.4	20.0
301893 1998 RR_{12}	16.7	X	26.57194	198.29331	187.44971	3.43407	0.2103957	0.23218361	2.6216921	20	—	—
301894 1998 RX_{28}	17.5	X	41.41060	183.71269	156.75536	9.12261	0.3678000	0.23159125	2.6261606	20	—	—
301895 1998 RH_{42}	16.1	X	11.81270	70.51514	338.81717	11.80577	0.1927586	0.23347417	2.6120220	20	—	—
301896 1998 SH_5	16.9	X	16.02375	222.46915	182.58895	5.01873	0.1664185	0.23402056	2.6079546	20	—	—
301897 1998 SE_{12}	16.1	X	349.22056	6.14052	21.72808	19.07224	0.3301425	0.22624695	2.6673554	20	12 28.7	19.0
301898 1998 SP_{34}	16.2	X	56.67283	304.55893	14.95049	13.64666	0.2975896	0.23121751	2.6289898	20	12 24.7	20.7
301899 1998 SA_{46}	17.0	X	4.20487	356.08433	15.82859	7.03340	0.1837089	0.22720155	2.6598788	20	12 8.9	20.0
301900 1998 SM_{89}	17.2	X	38.72753	29.33721	315.58098	5.02612	0.1822535	0.23064708	2.6333227	20	12 23.9	20.8
301901 1998 UP_{14}	16.5	X	233.36037	86.34469	47.83947	10.05404	0.0469173	0.22373720	2.6872655	20	10 30.4	20.0
301902 1998 UG_{19}	16.3	X	22.38837	349.41160	30.70672	16.14897	0.2575314	0.23076475	2.6324274	20	—	—
301903 1998 UR_{50}	16.7	X	297.57007	78.64505	40.30451	5.64045	0.0413157	0.23011773	2.6373594	20	—	—
301904 1998 WN_{32}	16.5	X	309.41955	32.69653	54.94875	8.57508	0.2202065	0.22534739	2.6744492	20	12 6.4	18.8
301905 1998 WR_{41}	16.0	X	343.93336	143.72061	247.53071	12.37118	0.2037328	0.22473892	2.6792744	20	12 1.6	18.4
301906 1998 XV_5	16.9	X	29.19919	265.17344	73.83045	7.99836	0.2171061	0.22571814	2.6715198	20	12 8.2	20.2
301907 1998 XB_9	16.1	X	299.38178	108.27098	318.89789	13.54289	0.4783039	0.22152158	2.7051542	20	8 21.9	18.6
301908 1998 XM_{14}	16.7	X	324.04316	243.49494	153.00842	2.46876	0.2386155	0.22229359	2.6988873	20	10 25.0	18.8
301909 1998 XK_{15}	17.2	X	359.20344	166.40896	234.28085	6.84799	0.2986049	0.22740651	2.6582804	20	—	—
301910 1998 YM_8	15.3	X	261.00307	94.32698	333.23748	28.97446	0.4052178	0.21554708	2.7549134	20	7 28.5	20.0
301911 1998 YW_{19}	17.5	X	327.25200	317.22361	95.78217	5.52338	0.3336512	0.22233208	2.6985758	20	12 3.9	18.8
301912 1999 BU_{31}	18.2	X	114.01812	83.02651	34.61825	0.93898	0.0683586	0.29122458	2.2541563	20	5 14.6	20.8
301913 1999 FC_{73}	16.4	X	318.43784	307.96831	26.88718	3.78868	0.1846133	0.19894957	2.9060788	20	7 9.2	19.7
301914 1999 JT_{110}	17.0	X	246.51087	186.45809	88.63552	7.71009	0.2212962	0.27029815	2.3690488	20	1 16.2	20.9
301915 1999 LY_2	17.1	X	189.12117	151.71600	117.57607	7.40210	0.1108370	0.26174977	2.4203519	20	—	—
301916 1999 RL_{185}	17.9	X	130.50738	56.48984	285.37519	1.26522	0.2303822	0.25454807	2.4657905	20	—	—
301917 1999 SK_2	16.4	X	255.83743	234.38182	355.41193	4.65395	0.4535571	0.26296553	2.4128862	20	—	—
301918 1999 TJ_{64}	15.9	X	208.24285	355.77491	1.79390	8.43025	0.1008396	0.17077697	3.2174849	20	4 1.2	20.8
301919 1999 TX_{194}	16.6	X	49.89716	167.60032	237.37704	4.30405	0.1655718	0.24647320	2.5193562	20	—	—
301920 1999 VJ_{100}	17.8	X	62.23878	358.82749	39.36059	2.61165	0.2629662	0.24741007	2.5129922	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
301921 1999 VA_{137}	16.4	X	196.79169	2.77351	229.59574	5.22305	0.0478373	0.24194499	2.5506936	20	—	—
301922 1999 VH_{159}	16.0	X	64.83008	36.07224	352.19900	3.62484	0.0968772	0.24717562	2.5145810	20	—	—
301923 1999 VV_{187}	15.3	X	186.10270	42.12632	60.77180	21.89634	0.1943352	0.17228703	3.1986569	20	7 15.8	20.9
301924 1999 VM_{209}	17.2	X	358.53422	19.95038	68.68284	8.07918	0.1472144	0.24320260	2.5418928	20	—	—
301925 1999 XZ_{69}	15.7	X	246.40161	111.24414	81.58242	8.97260	0.4398004	0.23409522	2.6074001	20	12 4.8	19.5
301926 1999 XZ_{84}	16.2	X	1.89244	169.17449	268.65286	12.45514	0.2405177	0.23974308	2.5662876	20	—	—
301927 1999 XH_{104}	15.8	X	42.01101	325.26757	75.32977	13.63732	0.2585972	0.24367908	2.5385783	20	—	—
301928 1999 XF_{161}	16.4	X	35.14405	64.82844	9.35769	5.86400	0.2288334	0.24363690	2.5388712	20	—	—
301929 1999 XP_{189}	16.1	X	37.72237	103.87151	281.15643	13.33246	0.1294158	0.23987820	2.5653238	20	—	—
301930 1999 XC_{253}	16.8	X	306.52380	45.43652	80.44548	6.07379	0.0679410	0.24066044	2.5597620	20	—	—
301931 1999 YP_{10}	16.3	X	131.26759	195.03478	129.86445	3.15082	0.1373154	0.24653334	2.5189465	20	—	—
301932 2000 AL_{1}	15.3	X	278.30795	230.94311	283.63763	28.40286	0.2815255	0.23555007	2.5966528	20	—	—
301933 2000 AU_{32}	17.3	X	49.27645	331.02863	61.80857	2.23136	0.0152056	0.23751484	2.5823130	20	—	—
301934 2000 AE_{48}	15.6	X	80.94781	244.93650	138.50174	2.53666	0.2538485	0.24441798	2.5334594	20	—	—
301935 2000 AG_{66}	15.9	X	295.75661	82.02438	90.85818	5.64252	0.2450068	0.23657350	2.5891586	20	—	—
301936 2000 AH_{97}	15.2	X	298.52077	103.89758	326.20145	27.58495	0.3895716	0.22913074	2.6449277	20	9 5.6	17.9
301937 2000 AN_{123}	15.8	X	28.39689	113.19257	277.38134	8.13284	0.2139004	0.23698637	2.5861505	20	—	—
301938 2000 AD_{133}	15.9	X	335.91265	110.78102	15.21101	5.22009	0.2126757	0.23886501	2.5725729	20	—	—
301939 2000 AE_{135}	16.4	X	9.53886	23.60640	49.87234	5.39736	0.2116475	0.24022304	2.5628682	20	—	—
301940 2000 AA_{214}	16.1	X	342.84706	331.37589	109.50834	15.13288	0.1319887	0.23591581	2.5939684	20	—	—
301941 2000 AS_{221}	17.1	X	78.31413	258.47908	92.05411	4.51698	0.1609629	0.23755110	2.5820502	20	—	—
301942 2000 AP_{234}	16.6	X	35.58875	152.17852	270.34959	5.25652	0.1586489	0.24330722	2.5411641	20	—	—
301943 2000 AK_{235}	16.9	X	5.63235	194.06799	250.61629	0.84005	0.1810329	0.23987609	2.5653389	20	—	—
301944 2000 AS_{254}	13.1	X	261.88076	356.26240	105.19358	27.08820	0.1365476	0.08271012	5.2171136	20	9 30.9	20.4
301945 2000 BC_{15}	16.2	X	330.74897	105.26102	359.22220	14.92806	0.1697089	0.23496295	2.6009767	20	—	—
301946 2000 BK_{15}	16.9	X	5.68908	67.88642	15.62601	5.37434	0.2147716	0.23953521	2.5677721	20	—	—
301947 2000 CU_{10}	16.4	X	3.65245	170.17576	288.14055	5.83367	0.2518112	0.24067766	2.5596399	20	—	—
301948 2000 CZ_{20}	15.6	X	161.66935	265.81172	304.91499	10.89017	0.1117797	0.22443811	2.6816678	20	11 3.0	20.0
301949 2000 CM_{34}	16.5	X	59.88918	91.07541	297.88429	1.63336	0.1674685	0.24233520	2.5479548	20	—	—
301950 2000 CE_{45}	16.2	X	319.64497	231.23586	261.44362	3.16180	0.2396632	0.23609136	2.5926824	20	—	—
301951 2000 CZ_{79}	17.4	X	9.51720	264.42834	157.71310	2.24641	0.1735786	0.23396971	2.6083325	20	—	—
301952 2000 CT_{124}	16.1	X	49.91937	60.09578	348.24768	4.28140	0.2863655	0.24158978	2.5531932	20	—	—
301953 2000 CL_{130}	16.5	X	283.80983	302.87339	142.88336	10.75936	0.0738197	0.22587164	2.6703094	20	11 4.7	20.0
301954 2000 CB_{135}	17.2	X	281.66031	186.07873	320.80279	3.51585	0.0228398	0.23269096	2.6178798	20	—	—
301955 2000 DW_{9}	17.1	X	328.25906	337.41622	329.83667	5.43165	0.1896360	0.30760721	2.1733936	20	6 22.2	18.4
301956 2000 DR_{26}	17.0	X	323.46491	136.94003	333.56876	4.82692	0.1806775	0.23444445	2.6048102	20	—	—
301957 2000 DK_{30}	16.1	X	174.99947	37.79864	161.83992	13.16022	0.0707949	0.22393835	2.6856561	20	11 12.8	20.2
301958 2000 DQ_{49}	16.6	X	355.43464	68.26467	332.23911	11.82636	0.2719095	0.23133668	2.6280869	20	—	—
301959 2000 DA_{68}	17.3	X	314.08490	328.50882	151.02943	4.74931	0.2450195	0.23342596	2.6123816	20	—	—
301960 2000 DP_{76}	17.0	X	214.73655	203.08295	320.15563	4.05371	0.1954222	0.22345301	2.6895435	20	10 23.8	21.2
301961 2000 DF_{116}	16.1	X	265.37643	249.13124	246.64911	5.57492	0.1558794	0.22937426	2.6430554	20	11 29.1	19.0
301962 2000 ET_{26}	15.5	X	340.58780	74.49278	5.80328	26.43066	0.4375478	0.23406868	2.6075972	20	—	—
301963 2000 EF_{34}	16.4	X	252.96993	26.40764	130.14030	4.89732	0.1831952	0.22885648	2.6470404	20	12 4.5	19.8
301964 2000 EJ_{37}	13.5	X	334.07896	115.74255	178.38064	10.06784	0.7060136	0.09903964	4.6266147	20	3 13.5	18.5
301965 2000 EN_{172}	16.3	X	299.24788	85.63324	58.31774	28.01964	0.3732654	0.23197980	2.6232274	20	—	—
301966 2000 EJ_{198}	16.9	X	211.63427	332.10242	204.51175	8.59803	0.2556817	0.22375146	2.6871514	20	11 2.8	21.2
301967 2000 FS_{1}	16.6	X	344.82251	189.83843	195.06931	4.63153	0.1195960	0.21974733	2.7196957	20	11 15.5	19.7
301968 2000 FX_{2}	14.6	X	315.52439	80.48710	19.89177	24.73569	0.4111719	0.23342787	2.6123673	20	—	—
301969 2000 FP_{9}	17.8	X	256.58839	250.10396	15.70528	3.15619	0.2194652	0.28624030	2.2802486	20	1 11.6	21.6
301970 2000 GE_{27}	16.1	X	252.22359	127.79583	21.88171	13.64726	0.1972535	0.22559446	2.6724962	20	11 17.2	19.6
301971 2000 GS_{29}	16.3	X	252.57458	308.87011	199.75397	12.40749	0.1191674	0.22473019	2.6793438	20	12 2.5	19.9
301972 2000 GE_{142}	16.4	X	283.66087	87.09791	72.43968	13.86848	0.2078292	0.22997034	2.6384862	20	—	—
301973 2000 GV_{170}	17.5	X	10.91200	272.37534	354.96136	3.54812	0.1428974	0.30248978	2.1978375	20	7 29.1	19.2
301974 2000 GU_{171}	16.7	X	265.32100	46.71010	109.99062	12.59087	0.2302767	0.22939731	2.6428783	20	12 16.6	19.8
301975 2000 HL	16.3	X	227.73970	85.24004	6.69048	12.58803	0.0813604	0.21540570	2.7561187	20	8 27.1	20.3
301976 2000 HX_{17}	16.6	X	13.72588	64.25383	223.46767	2.99220	0.1365256	0.20571824	2.8419789	20	8 18.8	20.0
301977 2000 HY_{39}	16.4	X	286.61284	319.47712	141.39907	2.45264	0.0295100	0.22081455	2.7109256	20	11 28.1	19.8
301978 2000 HE_{81}	16.2	X	347.70344	231.29950	85.64154	7.76739	0.1204899	0.20462497	2.8520927	20	8 16.1	19.5
301979 2000 JC_{2}	18.4	X	215.68890	291.46594	39.63916	4.86162	0.2491495	0.28617126	2.2806153	20	2 27.9	22.3
301980 2000 JO_{8}	16.5	X	230.38738	73.90735	225.89235	20.66669	0.2146844	0.28409922	2.2916908	20	1 24.4	20.8
301981 2000 JB_{20}	17.6	X	320.41607	298.81436	294.03322	2.57668	0.2382019	0.29072265	2.2567501	20	1 31.2	20.4
301982 2000 KT_{4}	16.5	X	248.43011	67.92833	234.82036	21.10573	0.2751812	0.28490761	2.2873538	20	2 6.9	21.0
301983 2000 KW_{40}	16.4	X	265.54165	75.04047	69.23713	2.95802	0.1875068	0.22348422	2.6892931	20	12 4.1	19.6
301984 2000 KC_{43}	15.5	X	1.20550	244.01548	53.24993	15.59981	0.1433692	0.20445831	2.8536423	20	8 19.4	19.1
301985 2000 KH_{66}	17.3	X	240.12846	204.73634	127.58464	7.42994	0.2264508	0.28812118	2.2703140	20	3 21.3	21.0
301986 2000 LF_{7}	17.2	X	214.00715	211.33048	138.52312	6.63486	0.2028499	0.28764523	2.2728177	20	3 21.2	21.0
301987 2000 NS	17.5	X	214.26213	34.03949	254.60176	1.77445	0.2263372	0.27697847	2.3308020	20	1 5.6	21.4
301988 2000 NN_{10}	15.3	X	200.87766	118.52780	249.35480	21.13523	0.2908392	0.28108019	2.3080713	20	3 22.6	19.9
301989 2000 OL_{61}	16.9	X	83.87089	20.09380	97.95281	4.90573	0.0640021	0.28259792	2.2998000	20	4 4.6	19.5
301990 2000 OA_{62}	17.4	X	24.53040	30.83351	159.76160	4.88885	0.0865511	0.28719911	2.2751707	20	4 15.2	19.5
301991 2000 PM_{1}	17.3	X	164.44382	277.68700	68.37677	6.52391	0.3465451	0.27243688	2.3566339	20	2 13.9	21.6
301992 2000 QH_{14}	16.8	X	247.33237	330.68182	326.70766	6.20257	0.1224642	0.28060879	2.3106555	20	2 17.3	20.1
301993 2000 QB_{41}	17.2	X	177.09315	108.73080	257.28204	1.67003	0.2194280	0.27709977	2.3301217	20	3 8.5	21.1
301994 2000 QJ_{53}	16.1	X	258.10524	186.49137	150.45994	8.46926	0.2126231	0.18585206	3.0410563	20	4 18.9	21.0
301995 2000 QW_{85}	16.8	X	194.15595	4.27988	316.50559	5.65018	0.2534378	0.27519091	2.3408845	20	1 29.7	20.9
301996 2000 QU_{86}	16.6	X	158.93573	109.13420	267.55027	4.06318	0.1857464	0.27539669	2.3397183	20	3 2.7	20.2
301997 2000 QC_{117}	17.7	X	158.35733	213.01292	130.95055	2.99787	0.2292391	0.27138215	2.3627360	20	1 27.5	21.4
301998 2000 QW_{147}	16.8	X	258.52045	91.86712	177.79976	16.69714	0.4611656	0.18054057	3.1004127	20	1 12.4	22.9
301999 2000 QC_{157}	16.4	X	157.79683	132.42389	250.56136	5.95564	0.1393928	0.27642205	2.3339288	20	3 4.9	19.9
302000 2000 QD_{163}	17.0	X	191.43412	100.15233	269.69494	5.33245	0.1741986	0.27939222	2.3173583	20	3 22.2	20.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
302001 2000 QB_{166}	15.9	X	251.19006	31.18771	304.30368	9.15713	0.1690292	0.18439994	3.0570006	20	4 7.3	20.9
302002 2000 QU_{185}	17.2	X	102.86254	346.94563	25.29211	4.01147	0.2457488	0.26694602	2.3888401	20	1 5.6	19.8
302003 2000 QV_{223}	15.6	X	291.85018	0.93189	334.60142	10.94297	0.1295143	0.18869052	3.0104817	20	6 2.4	19.8
302004 2000 QV_{226}	16.6	X	196.15598	114.90106	251.60671	8.84257	0.1535235	0.28031073	2.3122932	20	3 20.8	20.4
302005 2000 RF_{8}	17.1	X	170.01141	144.24260	179.28758	23.41346	0.2634836	0.27143860	2.3624084	20	1 13.1	21.5
302006 2000 RM_{34}	17.1	X	191.89613	3.69597	330.61333	9.62610	0.2371991	0.27432884	2.3457861	20	2 13.1	20.9
302007 2000 RA_{83}	15.4	X	294.42862	16.27673	303.46735	9.16082	0.1243434	0.18752650	3.0229268	20	5 16.5	19.6
302008 2000 RT_{84}	16.1	X	238.94938	208.98834	172.59181	12.31701	0.1955429	0.18640547	3.0350344	20	5 25.8	21.1
302009 2000 RA_{98}	14.9	X	242.70695	102.37114	257.49517	16.13515	0.2508662	0.18412762	3.0600141	20	4 22.9	20.2
302010 2000 SH_{8}	18.7	X	315.03618	86.26919	1.86239	56.37315	0.4893521	0.44930976	1.6882580	20	—	—
302011 2000 SN_{15}	15.9	X	243.02751	21.87554	301.54698	7.70390	0.2410098	0.18206675	3.0830622	20	3 12.5	21.1
302012 2000 SM_{16}	16.3	X	227.48861	158.08546	227.97120	4.15679	0.2208564	0.18396499	3.0618172	20	5 17.0	21.4
302013 2000 SA_{18}	16.5	X	206.79984	38.93917	259.22154	6.07572	0.1082993	0.27163129	2.3612911	20	1 8.9	20.0
302014 2000 SU_{27}	15.6	X	247.51311	58.78692	320.66662	10.27330	0.1038418	0.18638133	3.0352964	20	6 8.0	20.3
302015 2000 SS_{31}	15.9	X	261.58554	170.90623	187.03301	9.61378	0.1458148	0.18657644	3.0331799	20	5 24.7	20.4
302016 2000 SE_{42}	16.1	X	245.86128	306.82570	60.77958	6.45105	0.2674583	0.18459680	3.0548269	20	5 7.4	21.2
302017 2000 SS_{82}	17.1	X	171.58195	194.08006	149.23126	5.75295	0.2086623	0.27146822	2.3622366	20	2 5.5	20.8
302018 2000 SV_{92}	15.7	X	239.44400	160.38115	240.26282	10.19444	0.1829864	0.18735583	3.0247623	20	6 17.5	20.5
302019 2000 SR_{95}	16.1	X	217.74774	31.56991	347.47372	17.12579	0.2168045	0.18201491	3.0836475	20	4 23.4	21.6
302020 2000 SN_{96}	16.0	X	262.44448	32.39445	301.80955	9.52973	0.2022771	0.18514944	3.0487451	20	4 13.4	20.9
302021 2000 SW_{102}	17.4	X	145.65868	35.08626	357.29876	3.97354	0.2043040	0.27310836	2.3527695	20	3 13.9	20.8
302022 2000 SA_{131}	16.7	X	194.15704	106.26754	226.20888	11.67234	0.1839347	0.27521414	2.3407528	20	2 6.2	20.7
302023 2000 SD_{133}	15.5	X	188.99363	176.24982	241.62513	11.41166	0.2136993	0.18192804	3.0846291	20	5 24.0	20.7
302024 2000 SM_{134}	17.4	X	247.98044	38.58430	257.87482	7.24361	0.2836622	0.27995656	2.3142430	20	2 4.9	21.5
302025 2000 SD_{135}	15.4	X	272.37146	70.69885	258.46588	10.01952	0.1570623	0.18522356	3.0479317	20	4 25.7	20.0
302026 2000 SF_{135}	16.7	X	214.58024	47.30168	261.08100	6.66555	0.1376219	0.27439396	2.3454149	20	1 28.1	20.4
302027 2000 SR_{153}	17.2	X	145.41051	199.25853	184.77889	5.50416	0.1854113	0.27111723	2.3642749	20	2 29.3	20.8
302028 2000 SN_{164}	17.1	X	190.05552	207.01265	7.22183	19.77864	0.0584866	0.35655021	1.9696494	20	—	—
302029 2000 SW_{181}	17.4	X	104.78556	337.62551	11.12006	5.20690	0.2524884	0.26420076	2.4053595	20	—	—
302030 2000 SB_{206}	15.1	X	266.75596	315.00278	30.38363	14.44005	0.0707331	0.18275359	3.0753327	20	5 20.6	19.7
302031 2000 SK_{214}	17.7	X	172.36708	357.15830	350.42677	0.78457	0.2011863	0.27297367	2.3535434	20	2 11.3	21.2
302032 2000 SS_{240}	17.1	X	89.69267	118.63635	232.59162	18.75573	0.1001196	0.36059407	1.9548960	20	—	—
302033 2000 SQ_{277}	17.1	X	124.27770	345.54267	46.98102	5.94536	0.1637295	0.26938428	2.3744036	20	2 18.9	20.3
302034 2000 SA_{285}	16.5	X	160.25609	92.59520	292.70725	5.66740	0.1249249	0.27424102	2.3462868	20	3 9.8	20.0
302035 2000 SU_{285}	15.5	X	230.49979	166.99577	253.26342	9.67217	0.0918167	0.18830092	3.0146328	20	7 10.9	20.0
302036 2000 SU_{286}	15.8	X	273.91789	358.55223	354.05400	11.41384	0.1742380	0.18713379	3.0271544	20	5 23.9	20.3
302037 2000 SL_{288}	16.1	X	240.64607	131.00983	267.85305	8.79857	0.2635408	0.18700856	3.0285057	20	6 9.3	21.2
302038 2000 SM_{288}	15.2	X	195.19844	126.08629	240.13976	12.21424	0.1424372	0.17924704	3.1153108	20	3 25.7	20.4
302039 2000 SF_{291}	16.8	X	142.54805	29.20210	352.66710	7.60957	0.1800046	0.27158193	2.3615771	20	2 25.5	20.2
302040 2000 SU_{302}	15.6	X	219.22022	76.31358	280.88481	9.82843	0.1084773	0.17879427	3.1205680	20	4 7.0	20.7
302041 2000 SM_{305}	15.7	X	220.20364	18.59650	3.20420	17.32193	0.2162250	0.18108181	3.0942317	20	4 29.9	21.2
302042 2000 ST_{314}	15.6	X	274.23120	78.80255	254.40573	15.01991	0.1480730	0.18567074	3.0430358	20	5 4.8	20.1
302043 2000 SG_{333}	15.3	X	241.66174	267.68816	98.97643	10.06247	0.2697231	0.18502445	3.0501180	20	5 5.6	20.5
302044 2000 SD_{341}	17.6	X	222.26587	77.03354	229.58111	1.19717	0.2133598	0.27670100	2.3323599	20	2 2.2	21.3
302045 2000 SE_{343}	15.6	X	237.15822	347.70508	43.09313	10.73058	0.1450825	0.18333650	3.0688107	20	6 5.6	20.4
302046 2000 SA_{348}	15.6	X	253.61906	239.41044	112.66438	15.22221	0.3011713	0.18356203	3.0662965	20	4 28.5	21.0
302047 2000 SR_{350}	15.9	X	243.46787	286.46297	83.27867	13.03712	0.2605439	0.18487838	3.0517243	20	5 11.2	21.0
302048 2000 TC_{18}	17.3	X	138.89283	10.40529	12.60094	2.05322	0.1837162	0.27000281	2.3707760	20	2 23.0	20.6
302049 2000 TC_{24}	16.7	X	143.56769	105.55192	289.26212	5.86893	0.1194551	0.27310095	2.3528121	20	3 3.5	20.0
302050 2000 TX_{24}	15.2	X	245.94718	300.08817	61.20080	10.57996	0.1128480	0.18240258	3.0792768	20	5 14.6	19.7
302051 2000 TP_{27}	15.4	X	182.45132	263.48339	221.08654	9.08754	0.0516851	0.19095691	2.9866143	20	8 8.4	20.0
302052 2000 TX_{64}	17.5	X	148.97488	190.68217	185.60238	4.24381	0.1578728	0.27135891	2.3628709	20	2 20.4	21.0
302053 2000 UN_{1}	17.8	X	191.66272	67.25426	254.95081	1.12179	0.2320232	0.27210670	2.3585399	20	1 28.6	21.8
302054 2000 UU_{1}	15.4	X	249.00448	301.96140	42.12640	12.52830	0.2556628	0.18415937	3.0596624	20	4 14.9	20.4
302055 2000 UV_{2}	17.4	X	125.80126	195.62930	220.61997	5.07597	0.2180091	0.27009248	2.3702513	20	3 24.6	20.8
302056 2000 UX_{15}	17.9	X	111.65110	347.97987	30.81570	3.39682	0.1605224	0.26590521	2.3950697	20	1 13.6	20.7
302057 2000 UJ_{20}	16.8	X	101.62011	15.36510	55.95760	5.98284	0.2066433	0.26934964	2.3746072	20	3 19.9	19.8
302058 2000 UJ_{29}	17.2	X	132.60125	276.96950	44.75929	25.27426	0.1306887	0.36098579	1.9534815	20	—	—
302059 2000 UH_{69}	17.2	X	150.78117	91.04695	267.28247	3.07133	0.2533140	0.26926856	2.3750839	20	2 8.7	21.0
302060 2000 UV_{85}	16.5	X	84.82534	236.26519	196.54493	6.75419	0.0963169	0.26749400	2.3855765	20	2 3.8	19.3
302061 2000 UW_{111}	15.5	X	277.60565	261.02111	55.24685	15.10117	0.2837750	0.18191189	3.0848116	20	4 8.5	20.4
302062 2000 VM_{38}	17.5	X	82.01126	45.51640	47.53842	4.82264	0.2335092	0.26853812	2.3793889	20	3 25.9	20.0
302063 2000 VU_{59}	18.0	X	132.23997	30.16848	356.45274	1.14643	0.1813462	0.26941087	2.3742474	20	2 19.9	21.4
302064 2000 WS_{6}	15.0	X	193.08084	33.76919	26.74080	18.20362	0.1768032	0.17841686	3.1249672	20	5 26.7	20.4
302065 2000 WM_{26}	17.4	X	86.66258	177.96736	235.18690	4.06154	0.1867842	0.26414402	2.4057040	20	1 25.8	19.9
302066 2000 WC_{40}	16.9	X	132.55164	200.18926	200.09954	6.76369	0.2276176	0.26835155	2.3804916	20	3 12.2	20.4
302067 2000 WW_{46}	15.6	X	246.95766	126.63422	227.46775	15.65235	0.2530586	0.18003265	3.1062413	20	4 21.9	20.7
302068 2000 WO_{65}	17.3	X	44.12944	159.58897	246.48439	1.48442	0.2015017	0.25800211	2.4437337	20	—	—
302069 2000 WC_{69}	15.2	X	195.92475	134.99807	254.66050	15.44285	0.1051539	0.17763790	3.1340960	20	4 25.2	20.3
302070 2000 WC_{73}	15.2	X	218.84104	154.32720	245.75849	17.26009	0.0827723	0.18049422	3.1009435	20	6 4.5	19.8
302071 2000 WX_{74}	15.3	X	165.51903	1.97349	42.43107	13.73040	0.1475215	0.17333263	3.1857804	20	4 19.6	20.5
302072 2000 WK_{76}	17.2	X	140.22305	12.48032	1.75289	1.99397	0.2069627	0.26808696	2.3820576	20	2 15.9	20.6
302073 2000 WX_{81}	17.1	X	83.91619	156.37470	263.49917	4.62208	0.1472548	0.26382257	2.4076577	20	1 24.8	19.6
302074 2000 WF_{95}	14.9	X	178.02305	178.94276	256.82873	16.54502	0.1848378	0.17601214	3.1533654	20	6 5.6	20.2
302075 2000 WK_{101}	15.7	X	133.62014	259.85641	197.28958	25.01807	0.2614574	0.17355685	3.1830359	20	5 29.6	21.4
302076 2000 WL_{101}	15.1	X	193.41174	329.66053	94.99475	20.07292	0.1925915	0.17945134	3.1129459	20	6 7.2	20.4
302077 2000 WC_{106}	15.8	X	293.01812	15.54869	243.36205	9.12251	0.1341699	0.16989637	3.2285931	20	2 26.3	20.6
302078 2000 WC_{147}	14.6	X	177.86183	278.93390	154.72023	23.97480	0.4197248	0.17637536	3.1490346	20	6 7.2	21.1
302079 2000 WQ_{152}	15.1	X	199.59511	139.47421	251.14878	16.05493	0.2439659	0.17818007	3.1277351	20	4 27.3	20.7
302080 2000 WU_{155}	15.5	X	175.72875	161.76125	289.01601	9.79664	0.1629011	0.17836355	3.1255898	20	6 22.0	20.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
302081 2000 WC_{180}	17.4	X	123.41295	289.05463	92.75157	6.20916	0.2443618	0.26651543	2.3914124	20	2 13.9	20.8
302082 2000 WZ_{180}	17.2	X	92.57912	0.63576	31.65234	5.63121	0.2279082	0.26310261	2.4120480	20	1 16.1	19.8
302083 2000 XP_{53}	17.6	X	143.11874	290.28676	81.60379	7.43198	0.1580265	0.26605209	2.3941881	20	2 12.9	21.1
302084 2000 YT	15.0	X	139.83431	67.16823	52.80626	26.48099	0.2782890	0.17238735	3.1974158	20	6 28.2	20.9
302085 2000 YE_{13}	17.0	X	113.10803	339.57625	69.18721	5.80068	0.2225757	0.26640022	2.3921018	20	3 6.7	20.3
302086 2000 YJ_{20}	17.3	X	332.68806	358.67930	205.46010	1.93781	0.1656988	0.26354385	2.4093550	20	1 25.8	19.9
302087 2000 YQ_{31}	16.7	X	63.43889	343.53287	100.23224	3.49307	0.1721303	0.25966302	2.4333018	20	1 28.8	18.9
302088 2000 YU_{33}	15.7	X	220.94517	333.08376	134.78289	12.52163	0.2714453	0.18340436	3.0680536	20	8 14.9	20.9
302089 2000 YO_{48}	16.9	X	64.26892	187.96332	279.04593	9.24289	0.2060066	0.26322507	2.4112998	20	3 3.3	19.3
302090 2000 YG_{72}	17.0	X	67.54518	181.73915	279.40165	5.33975	0.2198600	0.26469755	2.4023490	20	3 5.4	19.3
302091 2000 YW_{122}	14.8	X	168.39931	194.83558	239.62728	25.97327	0.1453983	0.17450346	3.1715145	20	5 25.9	19.9
302092 2001 AA_{19}	15.3	X	130.01775	200.15097	271.05991	4.29043	0.1077193	0.16954974	3.2329920	20	5 30.9	20.3
302093 2001 BC_{54}	15.8	X	221.83800	259.15561	316.01063	13.65353	0.0778015	0.24472109	2.5313670	20	—	—
302094 2001 CW_{29}	16.7	X	53.21899	355.05806	98.26488	7.75439	0.1641622	0.25842356	2.4410761	20	1 22.1	18.8
302095 2001 DO_{12}	16.3	X	232.56622	272.72999	268.66411	6.65244	0.1237254	0.24135565	2.5548441	20	12 20.6	19.5
302096 2001 DR_{93}	16.2	X	273.59610	220.48202	304.48263	11.50618	0.1505642	0.24515931	2.5283496	20	—	—
302097 2001 EH_{3}	16.2	X	271.29417	162.29707	15.95339	15.56525	0.0919933	0.24382820	2.5375431	20	—	—
302098 2001 FG_{31}	16.1	X	153.59846	296.08263	202.97019	22.98106	0.4841171	0.17468708	3.1692915	20	7 31.3	22.8
302099 2001 FT_{93}	16.0	X	157.77471	183.92767	21.00277	14.20546	0.1331769	0.23100112	2.6306313	20	10 25.8	20.2
302100 2001 FA_{97}	16.2	X	56.70459	205.53984	32.70163	11.02704	0.4129211	0.21580186	2.7527446	20	10 2.1	20.5
302101 2001 FA_{125}	17.0	X	241.41846	185.61955	6.26419	1.64093	0.2442050	0.24023625	2.5627743	20	12 27.4	20.0
302102 2001 FE_{125}	16.6	X	209.93422	341.39837	191.56922	16.03273	0.1865572	0.23415582	2.6069502	20	11 6.2	20.7
302103 2001 FH_{153}	16.6	X	283.41750	82.78082	85.78798	4.87479	0.1446185	0.24341221	2.5404334	20	—	—
302104 2001 FK_{156}	17.0	X	237.21652	345.22530	186.63506	9.69727	0.1370598	0.23765096	2.5813268	20	12 12.1	20.5
302105 2001 FA_{164}	16.6	X	222.55997	201.02526	35.32618	4.69282	0.1365338	0.24263890	2.5458282	20	—	—
302106 2001 GG_{4}	17.0	X	173.47142	213.55215	14.03509	5.98698	0.0758152	0.23585129	2.5944415	20	12 13.6	20.8
302107 2001 HR_{56}	16.3	X	102.37335	211.35845	68.39023	8.60070	0.2670429	0.22682265	2.6628401	20	12 10.9	20.9
302108 2001 KN_{29}	15.8	X	119.04133	30.58849	229.11549	17.01110	0.1899067	0.22811779	2.6527517	20	11 28.3	20.2
302109 2001 KS_{50}	16.6	X	107.14949	165.19285	85.28371	15.19368	0.2143310	0.22399700	2.6851873	20	11 12.2	21.2
302110 2001 KK_{74}	16.0	X	135.76229	349.39342	247.59233	12.76916	0.1056581	0.22662575	2.6643824	20	11 13.3	20.2
302111 2001 MM_{3}	14.3	X	60.20298	88.50329	224.88266	29.13868	0.4070714	0.21610255	2.7501905	20	12 22.9	19.5
302112 2001 MK_{11}	15.7	X	3.52043	38.62465	258.57269	7.72503	0.2750372	0.21066696	2.7972960	20	8 25.8	18.2
302113 2001 MO_{18}	16.8	X	38.20845	161.75616	120.90617	10.19450	0.1951749	0.21650356	2.7467936	20	10 8.0	20.5
302114 2001 OJ_{33}	17.1	X	290.59434	273.05253	74.18315	7.05125	0.1393753	0.30784374	2.1722802	20	6 19.5	19.3
302115 2001 OS_{38}	17.0	X	31.23561	213.05728	62.50014	6.85234	0.1524359	0.31444097	2.1417887	20	9 27.2	19.2
302116 2001 OR_{52}	16.3	X	39.05041	197.47264	82.09580	9.47217	0.1995478	0.21170191	2.7881718	20	10 5.4	20.0
302117 2001 PR_{37}	16.3	X	294.03012	235.48411	99.49232	10.26269	0.3234954	0.20112942	2.8850432	20	5 10.6	20.4
302118 2001 PM_{38}	15.9	X	7.61610	269.63726	45.62005	9.50955	0.1577766	0.20949820	2.8076902	20	9 25.2	19.1
302119 2001 PF_{43}	17.9	X	236.29559	226.39559	98.57945	7.47605	0.2550190	0.29660431	2.2268164	20	3 7.5	21.7
302120 2001 QO_{13}	17.5	X	242.81069	354.92863	353.12543	3.30802	0.2170312	0.30005527	2.2097097	20	4 9.1	21.0
302121 2001 QE_{36}	17.4	X	258.11481	230.61772	140.80743	6.66354	0.2353305	0.30504358	2.1855536	20	5 26.7	20.5
302122 2001 QA_{113}	16.2	X	348.01914	137.42887	262.85668	7.07182	0.1965179	0.21342542	2.7731410	20	12 17.2	18.8
302123 2001 QM_{128}	16.0	X	308.76334	95.81384	294.67733	11.76091	0.1937694	0.20854372	2.8162507	20	9 2.6	19.2
302124 2001 QT_{157}	16.6	X	28.91487	356.68465	307.12974	3.24309	0.1890138	0.21153122	2.7896715	20	10 13.8	20.0
302125 2001 QP_{169}	16.0	X	352.69985	100.17435	241.51324	7.95975	0.1844841	0.20964810	2.8063516	20	9 28.3	18.9
302126 2001 QA_{177}	16.3	X	67.92739	28.54827	170.02873	11.59468	0.0481158	0.19802056	2.9151609	20	6 28.9	20.5
302127 2001 QQ_{183}	16.3	X	350.66471	294.29298	29.16148	2.25037	0.0652748	0.20336485	2.8638622	20	8 27.1	19.9
302128 2001 QG_{186}	17.2	X	327.10949	23.80365	238.53045	20.04471	0.0427712	0.40402359	1.8121671	20	4 13.2	18.8
302129 2001 QY_{193}	17.0	X	264.28328	85.75339	244.72244	6.01002	0.2599292	0.29981512	2.2108894	20	4 1.0	20.3
302130 2001 QL_{194}	17.3	X	291.44495	77.39429	251.56612	6.76477	0.2218747	0.30316168	2.1945889	20	5 7.4	19.8
302131 2001 QK_{209}	16.3	X	356.14806	55.69753	265.25776	1.28330	0.0667352	0.20828841	2.8185516	20	8 31.3	19.7
302132 2001 QD_{243}	18.5	X	239.67911	152.84369	170.07873	7.01767	0.3195687	0.29598820	2.2299055	20	3 1.0	22.6
302133 2001 RG_{35}	17.1	X	237.58329	218.15394	176.03001	7.93449	0.1752233	0.30357868	2.1925788	20	6 10.6	20.2
302134 2001 RB_{41}	16.3	X	264.73573	152.10105	211.91488	11.84790	0.1415575	0.19852987	2.9101730	20	6 4.7	20.6
302135 2001 RS_{56}	17.2	X	257.32687	34.15630	358.54892	6.53877	0.1031094	0.30588686	2.1815349	20	7 15.8	19.8
302136 2001 RG_{82}	17.2	X	280.92821	123.07475	230.13916	6.58665	0.1291605	0.30456112	2.1878611	20	6 14.8	19.5
302137 2001 RG_{84}	17.5	X	266.67761	25.25455	328.51988	3.70630	0.1358691	0.30266620	2.1969833	20	5 23.3	20.1
302138 2001 RZ_{99}	17.4	X	269.53710	7.71297	21.92219	2.78598	0.0962460	0.30838717	2.1697274	20	7 30.9	19.5
302139 2001 RT_{103}	17.5	X	177.03842	335.57096	26.21050	5.49499	0.1910630	0.29057664	2.2575060	20	3 3.9	21.0
302140 2001 RL_{133}	18.2	X	219.45044	336.31928	20.10542	5.22940	0.1900271	0.29571583	2.2312745	20	4 1.6	21.5
302141 2001 SD_{5}	18.2	X	283.93940	268.04981	8.98392	1.37514	0.3823909	0.29820757	2.2188279	20	2 2.8	21.8
302142 2001 SF_{11}	17.5	X	141.87128	97.56984	307.60412	4.56190	0.1444700	0.29011853	2.2598819	20	3 17.1	20.7
302143 2001 ST_{81}	17.7	X	336.91213	342.37279	304.38297	3.66603	0.1693400	0.30673946	2.1774906	20	6 8.1	19.2
302144 2001 SQ_{83}	16.1	X	343.75710	333.01989	342.80090	19.97184	0.1699922	0.20521165	2.8466542	20	8 10.7	19.2
302145 2001 SC_{89}	16.5	X	10.37479	124.09084	219.24445	3.21606	0.1075673	0.21150096	2.7899376	20	10 27.7	20.0
302146 2001 SY_{94}	17.6	X	162.94284	122.86197	333.60668	4.23407	0.1074552	0.30010986	2.2094416	20	6 18.0	20.7
302147 2001 SF_{114}	17.8	X	242.00327	33.24785	319.18288	2.92870	0.1708111	0.29776671	2.2210174	20	4 17.3	21.1
302148 2001 SV_{118}	16.2	X	335.73400	109.43808	233.96572	4.98782	0.0896140	0.20583485	2.8409054	20	8 27.3	19.7
302149 2001 SR_{157}	15.9	X	305.12170	124.55554	233.02314	5.19887	0.0798679	0.20155512	2.8809795	20	7 29.6	19.7
302150 2001 SZ_{181}	18.1	X	259.56026	170.27428	179.53060	2.14730	0.2185923	0.30210729	2.1996922	20	4 29.3	21.3
302151 2001 SQ_{201}	18.2	X	228.14954	150.02552	168.41529	2.10579	0.1875703	0.29306928	2.2446873	20	2 20.8	21.9
302152 2001 SW_{220}	16.7	X	205.63810	63.17999	4.87503	17.43842	0.1280237	0.19515456	2.9436324	20	6 23.1	21.7
302153 2001 SL_{221}	16.5	X	336.46048	330.01581	19.99930	2.06850	0.0829767	0.20532532	2.8456035	20	9 9.9	19.8
302154 2001 SQ_{229}	17.1	X	280.24622	308.19620	34.07018	5.10089	0.0114166	0.30039375	2.2080494	20	6 17.2	19.6
302155 2001 SK_{247}	18.0	X	204.62658	228.58045	170.84931	6.32433	0.2375665	0.29610759	2.2293060	20	5 13.8	21.7
302156 2001 SF_{286}	18.8	X	76.15621	19.01760	231.97033	29.50813	0.6454067	0.69006388	1.2682645	20	12 9.3	21.3
302157 2001 SF_{301}	16.8	X	4.92578	109.33777	208.26304	1.47927	0.0923091	0.20638733	2.8358333	20	9 11.2	20.1
302158 2001 SN_{317}	18.0	X	207.18083	10.73021	44.22099	2.31617	0.1347058	0.29937374	2.2130620	20	6 8.5	21.2
302159 2001 SV_{319}	17.8	X	307.00464	285.32056	39.98175	3.32619	0.0911997	0.30356245	2.1926569	20	6 22.0	19.8
302160 2001 SA_{320}	17.4	X	248.82469	172.90167	174.01308	6.47269	0.1936530	0.29826025	2.2185665	20	4 17.9	20.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
302161 2001 SH_{322}	17.8	X	177.12383	79.21695	279.86788	3.47584	0.1889001	0.28934308	2.2639178	20	2 25.9	21.4
302162 2001 SL_{333}	17.5	X	283.19182	258.85797	57.48080	4.73723	0.2500886	0.30076750	2.2062198	20	4 7.3	20.4
302163 2001 SM_{346}	16.0	X	327.90035	138.72927	207.26166	14.52950	0.1566714	0.20464130	2.8519409	20	8 10.9	19.4
302164 2001 SS_{346}	17.7	X	240.56498	64.51776	326.83230	5.42235	0.1128158	0.30201380	2.2001461	20	6 16.9	20.6
302165 2001 ST_{351}	15.7	X	310.20061	287.91088	69.53419	13.44200	0.0902561	0.20040432	2.8919981	20	8 11.7	19.5
302166 2001 TM_{3}	18.2	X	225.11583	135.87479	197.21154	3.81867	0.2091676	0.29269882	2.2465809	20	3 6.1	21.8
302167 2001 TS_{14}	17.3	X	275.88018	43.86288	291.81473	3.95108	0.1791704	0.30006077	2.2096827	20	5 2.1	20.0
302168 2001 TJ_{23}	17.7	X	236.23044	29.48822	354.62305	6.90371	0.1813866	0.30020024	2.2089982	20	5 22.7	20.9
302169 2001 TD_{45}	19.9	X	142.37362	212.45104	30.26828	25.39070	0.7774756	1.38587085	0.7967478	20	—	—
302170 2001 TG_{46}	17.8	X	90.60961	36.37923	9.67049	20.90053	0.0985100	0.38541592	1.8700345	20	—	—
302171 2001 TJ_{51}	17.6	X	116.99507	241.04991	176.79838	3.46386	0.1538693	0.28607105	2.2811479	20	3 8.2	20.4
302172 2001 TZ_{56}	17.1	X	269.60520	293.68750	44.50034	6.82559	0.2145412	0.30143072	2.2029825	20	4 25.1	20.0
302173 2001 TS_{59}	17.8	X	229.79684	308.39261	26.53692	4.41606	0.2204403	0.29382419	2.2408409	20	3 14.3	21.3
302174 2001 TD_{60}	15.6	X	244.07901	39.06738	39.99077	5.86847	0.4014067	0.19697513	2.9254665	20	7 20.4	20.7
302175 2001 TC_{88}	17.0	X	277.95521	84.85615	309.60222	3.86776	0.1804417	0.20039968	2.8920427	20	7 25.9	20.8
302176 2001 TG_{95}	16.8	X	268.68069	113.54709	215.30674	6.63992	0.1806686	0.29828528	2.2184425	20	4 14.5	19.7
302177 2001 TP_{108}	17.9	X	260.48782	40.73392	311.73162	3.86144	0.1520012	0.29978285	2.2110481	20	5 10.5	20.9
302178 2001 TD_{115}	15.3	X	259.72870	150.81009	248.00466	5.49326	0.2398166	0.19585636	2.9365965	20	6 29.8	19.8
302179 2001 TF_{122}	17.3	X	274.06541	359.51843	326.48222	7.92179	0.2336402	0.29857823	2.2169911	20	4 6.6	20.6
302180 2001 TX_{127}	17.4	X	302.46073	257.76387	60.02575	5.13973	0.1882221	0.30285562	2.1960672	20	5 15.4	19.4
302181 2001 TY_{129}	17.1	X	149.55637	278.94917	193.21264	6.10251	0.0894332	0.29843453	2.2177028	20	6 23.6	20.1
302182 2001 TF_{132}	18.0	X	206.65990	41.73517	4.46044	2.17294	0.1497296	0.29813087	2.2192084	20	5 25.8	21.2
302183 2001 TE_{163}	15.7	X	311.45109	73.24044	208.12879	11.04675	0.0995392	0.19220774	2.9736428	20	4 26.6	19.5
302184 2001 TN_{172}	17.2	X	299.57623	271.55651	42.27389	6.48238	0.1335622	0.30077148	2.2062003	20	5 13.6	19.3
302185 2001 TO_{176}	16.0	X	222.32961	269.05329	208.07586	14.35189	0.1092471	0.20272760	2.8698606	20	9 9.1	20.4
302186 2001 TA_{186}	17.4	X	87.99839	93.91297	2.70578	5.47599	0.0814908	0.28631657	2.2798436	20	3 11.3	20.0
302187 2001 TT_{234}	17.0	X	326.86907	336.41104	23.28704	2.32632	0.1107996	0.20327589	2.8646977	20	9 6.3	20.3
302188 2001 TK_{243}	16.9	X	307.24437	101.84249	267.06416	3.34040	0.0762406	0.20487116	2.8498073	20	8 18.5	20.6
302189 2001 TE_{245}	16.8	X	8.67522	306.20533	359.89518	6.05843	0.0726389	0.20517887	2.8469574	20	9 1.5	20.2
302190 2001 TR_{251}	18.5	X	231.69181	196.40453	153.32946	3.08719	0.1843068	0.29591933	2.2302514	20	4 5.1	21.8
302191 2001 TH_{252}	16.3	X	312.23621	354.96136	35.83541	12.73745	0.0726454	0.20645900	2.8351769	20	10 1.5	19.9
302192 2001 TU_{252}	16.6	X	236.33622	353.52525	85.40607	3.81340	0.1254953	0.20026268	2.8933615	20	8 10.1	20.8
302193 2001 UA	17.5	X	264.66344	282.56469	50.74596	7.18416	0.2677733	0.30022007	2.2089009	20	4 9.1	20.9
302194 2001 UW_{26}	16.8	X	80.24057	173.65988	7.02520	6.08866	0.0914010	0.29640152	2.2278320	20	7 3.7	19.5
302195 2001 UU_{45}	17.3	X	160.83846	27.38228	65.50132	4.08641	0.2008900	0.29424120	2.2387232	20	6 13.2	20.8
302196 2001 UC_{57}	16.4	X	314.28285	155.85972	210.24234	10.16366	0.1227553	0.20274004	2.8697432	20	8 18.4	20.1
302197 2001 UA_{64}	17.8	X	247.97855	339.03097	14.66280	2.52107	0.1457422	0.29673898	2.2261426	20	4 29.1	20.9
302198 2001 UB_{64}	15.5	X	324.08952	88.72074	265.25530	13.51089	0.1698988	0.20351962	2.8624101	20	8 12.3	18.8
302199 2001 UB_{74}	17.5	X	236.18580	331.93148	55.30833	6.38657	0.1491399	0.29885522	2.2156211	20	5 31.8	20.4
302200 2001 UG_{82}	17.5	X	207.99380	3.30103	65.56988	4.13786	0.1121727	0.29883178	2.2157369	20	6 30.8	20.4
302201 2001 UG_{87}	16.1	X	209.76291	333.74472	37.54951	2.04086	0.0678097	0.18591447	3.0403757	20	4 20.9	20.7
302202 2001 UJ_{106}	18.3	X	226.45326	254.43424	127.03992	1.62222	0.2205449	0.29709038	2.2243869	20	5 9.0	21.8
302203 2001 UQ_{111}	17.5	X	277.71796	84.30928	226.02170	4.68833	0.1914324	0.29683290	2.2256730	20	3 28.4	20.5
302204 2001 UB_{121}	17.3	X	200.75551	184.92277	220.51193	6.65935	0.0939727	0.29481916	2.2357964	20	5 21.7	20.2
302205 2001 UM_{133}	17.6	X	299.07173	102.47645	216.02047	3.94323	0.1610718	0.30119784	2.2041179	20	5 15.9	19.8
302206 2001 UJ_{138}	17.8	X	206.39557	7.62012	39.82251	7.31497	0.1334779	0.29721066	2.2237867	20	5 27.5	21.0
302207 2001 UN_{142}	18.0	X	201.34985	153.24850	187.62248	1.81318	0.2346765	0.28946635	2.2632750	20	2 26.0	21.8
302208 2001 UV_{145}	16.6	X	288.37465	332.57331	56.14158	1.17886	0.1333394	0.19923973	2.9032566	20	8 10.1	20.1
302209 2001 UP_{148}	16.1	X	263.75013	120.43734	220.05030	9.87751	0.1116065	0.19010033	2.9955792	20	5 8.5	20.5
302210 2001 UW_{148}	16.0	X	246.78802	14.10723	52.93862	12.93601	0.1091408	0.19723939	2.9228528	20	8 13.2	20.4
302211 2001 UM_{159}	16.9	X	150.80596	231.04605	228.01482	7.36491	0.0348746	0.29381408	2.2408923	20	6 3.3	19.6
302212 2001 UY_{169}	15.6	X	299.93951	95.24012	231.04227	8.69526	0.0228560	0.19309201	2.9645572	20	6 18.4	19.7
302213 2001 UT_{173}	17.2	X	144.25248	27.56383	49.25058	10.60995	0.0163052	0.29156692	2.2523915	20	4 22.7	19.8
302214 2001 UR_{176}	17.9	X	145.49624	62.94115	58.78047	4.07399	0.0886526	0.29790883	2.2203110	20	7 2.7	20.8
302215 2001 UA_{191}	16.4	X	312.63252	289.76964	13.92056	12.21279	0.1254470	0.19583890	2.9367710	20	5 20.3	20.3
302216 2001 UD_{199}	16.9	X	274.10474	45.74144	348.96667	0.62929	0.1674233	0.19983564	2.8974821	20	7 22.9	20.7
302217 2001 UA_{207}	17.3	X	252.46401	255.52304	86.75355	8.13309	0.2330950	0.29762507	2.2217220	20	4 14.4	20.8
302218 2001 UX_{217}	16.4	X	289.04792	226.98180	144.75703	2.77904	0.0962024	0.19824069	2.9130024	20	7 23.8	20.1
302219 2001 UH_{222}	15.7	X	330.25331	340.96585	231.41020	12.95934	0.1562949	0.17734331	3.1375658	20	2 13.4	19.9
302220 2001 UD_{227}	16.2	X	228.31244	18.82145	40.62110	11.80619	0.0601807	0.19699079	2.9253114	20	7 14.8	20.6
302221 2001 VO_{10}	15.5	X	197.19920	2.74417	21.00841	17.57040	0.2021830	0.18621926	3.0370573	20	4 18.5	20.7
302222 2001 VQ_{30}	16.6	X	246.97858	91.08186	252.13948	8.24705	0.2184826	0.29392485	2.2403292	20	4 4.4	20.2
302223 2001 VU_{31}	17.1	X	209.29135	164.32802	242.34020	7.98404	0.1614608	0.29483151	2.2357339	20	5 29.1	20.5
302224 2001 VG_{59}	17.0	X	225.49105	117.06606	249.48420	5.90683	0.1560137	0.29452751	2.2372721	20	4 20.3	20.5
302225 2001 VV_{81}	16.8	X	88.89614	279.13056	243.58230	21.69083	0.1964533	0.29033880	2.2587387	20	6 30.2	20.1
302226 2001 VU_{85}	17.3	X	89.02682	197.60644	297.88453	5.47397	0.1367146	0.28888446	2.2663132	20	5 15.1	20.0
302227 2001 VT_{93}	15.8	X	191.62948	332.53159	133.74766	13.62045	0.1937482	0.19130280	2.9830131	20	7 23.9	20.8
302228 2001 VO_{102}	17.7	X	176.16295	313.55260	32.25707	4.55341	0.2704827	0.28569577	2.2831451	20	2 16.5	21.6
302229 2001 VH_{113}	15.3	X	268.43105	105.84584	263.41644	8.78949	0.1486955	0.19271012	2.9684726	20	6 14.5	19.5
302230 2001 VR_{128}	16.6	X	272.16461	258.14814	135.70188	8.25752	0.1764455	0.19837291	2.9117079	20	7 17.2	20.7
302231 2001 WW_{4}	17.6	X	42.64718	247.21887	55.18434	22.82300	0.0647762	0.36379807	1.9434011	20	11 16.1	19.6
302232 2001 WJ_{5}	15.9	X	248.88733	56.54939	254.78501	23.92075	0.1953606	0.28812994	2.2702680	20	2 18.3	20.2
302233 2001 WS_{7}	17.5	X	203.07247	301.77705	103.78432	5.86773	0.1240954	0.29460279	2.2368909	20	5 24.0	20.7
302234 2001 WB_{24}	16.3	X	289.98948	306.28988	54.94447	2.75444	0.1150733	0.19524875	2.9426857	20	7 8.6	20.2
302235 2001 WF_{26}	17.2	X	165.90093	15.17521	71.02301	7.99245	0.2131057	0.29376854	2.2411239	20	6 9.1	20.9
302236 2001 WK_{32}	15.8	X	204.24819	153.37511	225.25337	12.19402	0.0595267	0.18475904	3.0530382	20	4 23.4	20.3
302237 2001 WF_{33}	17.1	X	131.78984	261.16941	210.83390	4.70206	0.1115630	0.29197117	2.2503120	20	6 4.3	20.1
302238 2001 WP_{42}	16.2	X	225.76180	158.10344	217.67841	9.13711	0.0996836	0.18867051	3.0106946	20	5 11.9	20.7
302239 2001 WV_{59}	16.5	X	182.48222	187.96167	235.72516	8.62413	0.1329075	0.18743139	3.0239493	20	5 26.1	21.3
302240 2001 WY_{59}	17.2	X	154.28955	241.97745	239.27577	5.58374	0.1308874	0.29635330	2.2280736	20	7 12.4	20.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
302241 2001 WV_{72}	17.6	X	150.91148	11.35070	70.92896	6.65261	0.0676613	0.29208737	2.2497151	20	5 13.4	20.4
302242 2001 WL_{98}	17.6	X	241.98619	149.42417	226.04810	4.90451	0.1727934	0.29754564	2.2221174	20	5 20.2	20.8
302243 2001 WK_{100}	17.4	X	130.47151	105.29415	44.46262	4.69119	0.1116584	0.29684724	2.2256013	20	7 27.3	20.5
302244 2001 WN_{100}	17.7	X	133.78686	71.66211	50.33700	6.03399	0.1550707	0.29274366	2.2463515	20	6 23.7	20.9
302245 2001 WC_{104}	16.4	X	128.33466	80.53752	31.41411	10.61238	0.0944944	0.17968590	3.1102363	20	5 27.1	21.2
302246 2001 XY_{3}	17.5	X	130.84737	318.75537	70.47088	23.56761	0.0347403	0.38584826	1.8686373	20	1 9.9	19.5
302247 2001 XW_{6}	17.4	X	14.68398	224.46671	274.51705	18.16314	0.0683635	0.38333873	1.8767838	20	—	—
302248 2001 XV_{31}	17.6	X	108.22720	348.30650	119.39125	2.66913	0.2030750	0.28364651	2.2941286	20	5 13.0	20.6
302249 2001 XP_{32}	16.4	X	239.22489	321.57157	103.91756	3.03467	0.1156453	0.19570675	2.9380929	20	7 27.2	20.7
302250 2001 XD_{33}	17.4	X	144.32464	89.63076	274.68189	19.16638	0.1016501	0.38254702	1.8793723	20	1 4.1	18.9
302251 2001 XD_{49}	17.2	X	194.95617	358.43559	68.44679	8.42463	0.1081803	0.29558405	2.2319376	20	6 12.6	20.2
302252 2001 XK_{70}	15.8	X	201.35179	328.75039	74.38817	10.64470	0.0748251	0.18790059	3.0189132	20	5 21.8	20.3
302253 2001 XU_{75}	15.7	X	275.74996	291.42676	89.38472	6.85260	0.0825503	0.19594615	2.9356992	20	7 20.0	19.6
302254 2001 XC_{84}	16.4	X	48.23101	287.98737	249.88574	21.82594	0.1972883	0.28469130	2.2885123	20	5 24.6	18.3
302255 2001 XG_{93}	16.1	X	270.60246	333.40834	62.75274	5.92049	0.0655957	0.19556357	2.9395267	20	8 6.4	20.2
302256 2001 XF_{96}	17.1	X	230.70897	108.28194	263.64503	5.02704	0.1314421	0.29341574	2.2429200	20	5 5.5	20.3
302257 2001 XT_{103}	17.0	X	229.77369	349.30063	270.46889	18.63017	0.0538236	0.37855644	1.8925569	20	—	—
302258 2001 XX_{108}	16.6	X	43.15823	81.19111	74.10529	9.91310	0.1609188	0.28023992	2.3126827	20	4 7.6	18.7
302259 2001 XJ_{112}	15.2	X	121.76099	161.77167	248.92112	26.08342	0.1401676	0.17468808	3.1692794	20	3 1.7	20.6
302260 2001 XS_{120}	15.7	X	272.22999	248.56695	75.53494	10.99674	0.1098547	0.18903001	3.0068761	20	5 1.2	20.0
302261 2001 XC_{122}	17.3	X	159.54855	8.52519	77.78459	8.31428	0.0688893	0.29318983	2.2440720	20	5 29.6	20.3
302262 2001 XM_{123}	15.6	X	303.40637	107.78417	225.92770	9.89805	0.1585585	0.19427105	2.9525505	20	6 14.3	19.3
302263 2001 XJ_{126}	16.9	X	38.78837	306.45924	248.40733	5.15941	0.0972212	0.28984085	2.2613250	20	5 17.2	19.0
302264 2001 XE_{131}	15.9	X	256.45655	161.95740	221.76602	3.22165	0.1471664	0.19231291	2.9725586	20	6 19.0	20.3
302265 2001 XB_{138}	18.0	X	142.22702	216.54433	238.80824	5.41104	0.1748484	0.28964951	2.2623208	20	5 28.8	21.4
302266 2001 XN_{146}	17.0	X	118.01542	246.02698	252.62781	6.04970	0.0640642	0.29184046	2.2509839	20	6 19.1	19.9
302267 2001 XZ_{149}	15.3	X	104.58199	291.19494	262.23236	11.64980	0.0819386	0.19054383	2.9909292	20	8 7.8	19.9
302268 2001 XM_{151}	17.9	X	210.60088	286.72626	86.69204	5.75526	0.2189821	0.29119257	2.2543215	20	4 17.1	21.6
302269 2001 XB_{153}	15.8	X	227.68752	152.76227	251.72802	7.78553	0.1292943	0.18877332	3.0096014	20	6 15.7	20.4
302270 2001 XZ_{162}	17.6	X	154.99541	179.40977	272.97280	2.10088	0.1157621	0.29081223	2.2562866	20	6 3.5	20.7
302271 2001 XC_{175}	16.1	X	181.19410	206.82518	272.45601	7.46910	0.2561132	0.18852338	3.0122608	20	7 28.4	21.5
302272 2001 XY_{175}	16.3	X	205.38544	348.72906	112.10196	7.30560	0.2031797	0.19033059	2.9931626	20	7 29.3	21.3
302273 2001 XD_{177}	14.9	X	243.96835	227.05648	109.21363	22.88156	0.1321470	0.18006211	3.1059025	20	4 20.6	20.1
302274 2001 XQ_{184}	17.5	X	137.54997	341.02428	102.31620	6.46135	0.1289071	0.28531814	2.2851592	20	5 6.1	20.7
302275 2001 XP_{186}	17.1	X	130.40489	155.10442	270.70164	5.76020	0.0734489	0.28251849	2.3002311	20	3 22.0	20.1
302276 2001 XM_{192}	16.5	X	86.98908	206.98024	281.57442	6.20979	0.0565520	0.28294685	2.2979089	20	4 17.1	19.3
302277 2001 XS_{198}	15.6	X	95.03742	10.05113	113.47462	9.75338	0.0337744	0.17614902	3.1517316	20	4 30.6	20.2
302278 2001 XO_{222}	17.3	X	272.15235	268.14963	65.39795	8.01452	0.1327247	0.29550449	2.2323382	20	5 4.6	20.0
302279 2001 XT_{223}	17.0	X	91.67432	112.39470	58.26445	9.21534	0.0610441	0.29412540	2.2393107	20	6 29.3	19.8
302280 2001 XC_{229}	16.6	X	24.55447	287.28339	274.58044	4.35335	0.0668902	0.28838857	2.2689104	20	4 28.0	19.0
302281 2001 XC_{233}	15.9	X	168.17086	24.47610	69.38182	10.60928	0.0559621	0.18694607	3.0291805	20	6 16.7	20.4
302282 2001 XL_{235}	17.7	X	194.39612	316.78336	69.82025	4.47299	0.1967944	0.29043243	2.2582533	20	4 19.2	21.4
302283 2001 XN_{241}	15.7	X	269.19855	108.99610	233.09414	9.17920	0.1316321	0.18998063	2.9968373	20	5 13.9	19.9
302284 2001 XG_{247}	16.4	X	197.69775	62.02190	45.54996	0.82897	0.2168103	0.19154687	2.9804786	20	7 30.3	21.3
302285 2001 XS_{252}	16.4	X	171.96397	8.71578	115.17408	8.94918	0.2448101	0.18757681	3.0223861	20	7 29.0	21.8
302286 2001 XW_{260}	15.7	X	120.43574	197.16859	260.78666	8.07735	0.0959232	0.18032010	3.1029393	20	5 1.3	20.3
302287 2001 YQ_{1}	17.1	X	35.04091	148.04483	264.20692	19.10317	0.0731144	0.37507682	1.9042439	20	—	—
302288 2001 YO_{19}	17.5	X	155.49012	291.16467	107.45836	5.98699	0.1927983	0.28328674	2.2960705	20	4 1.6	21.1
302289 2001 YF_{28}	16.4	X	257.25017	354.26226	56.42084	2.81075	0.0997760	0.19566160	2.9385448	20	8 1.7	20.4
302290 2001 YD_{31}	16.2	X	272.24426	35.39926	335.15698	2.39929	0.1462166	0.19296302	2.9658783	20	6 21.4	20.2
302291 2001 YS_{31}	17.7	X	222.11929	286.46428	75.96332	5.31178	0.1954851	0.29200688	2.2501285	20	4 13.6	21.2
302292 2001 YV_{31}	15.1	X	140.75786	333.35016	72.75444	13.07664	0.0892817	0.17740324	3.1368591	20	3 29.4	20.0
302293 2001 YZ_{54}	17.1	X	237.35066	83.14848	267.01909	6.15087	0.1242222	0.29132239	2.2536517	20	4 12.3	20.3
302294 2001 YH_{68}	15.2	X	202.91769	306.67068	95.38584	17.67192	0.1221777	0.18347997	3.0672106	20	5 23.5	20.2
302295 2001 YN_{71}	15.7	X	206.89946	331.69764	87.17206	10.50844	0.1054062	0.18541953	3.0457837	20	6 14.0	20.3
302296 2001 YP_{79}	16.5	X	182.57383	91.16779	23.16373	2.03622	0.1946338	0.18770699	3.0209886	20	7 26.8	21.6
302297 2001 YJ_{80}	16.8	X	181.23317	113.04038	283.38544	4.92320	0.1239930	0.28620919	2.2804138	20	4 14.9	20.2
302298 2001 YM_{81}	17.4	X	137.05193	161.55081	286.15710	5.12374	0.1292449	0.28582120	2.2824771	20	5 7.4	20.7
302299 2001 YV_{83}	15.5	X	25.79325	98.06514	99.17710	14.44591	0.1553144	0.17461812	3.1701259	20	5 12.6	19.4
302300 2001 YK_{88}	17.6	X	90.00026	42.17852	89.21242	4.40723	0.1891229	0.28345109	2.2951829	20	5 21.5	20.3
302301 2001 YN_{94}	16.0	X	66.05781	240.18713	286.83129	6.16804	0.1234068	0.17694793	3.1422378	20	5 26.4	20.2
302302 2001 YH_{100}	15.8	X	230.88892	288.47980	103.21991	12.28110	0.1301271	0.18767957	3.0212828	20	6 4.6	20.5
302303 2001 YF_{109}	15.6	X	143.37574	46.80676	82.12109	19.19258	0.1098528	0.18549555	3.0449516	20	7 6.1	20.4
302304 2001 YS_{111}	17.1	X	111.38788	85.27178	60.01285	6.17731	0.2137773	0.28729333	2.2746732	20	7 7.6	20.5
302305 2001 YN_{121}	17.2	X	204.59740	88.07369	310.74534	5.44161	0.1395747	0.29279893	2.2460688	20	5 12.8	20.5
302306 2001 YE_{129}	17.7	X	163.85357	35.31600	49.14867	5.75827	0.1554594	0.29043113	2.2582600	20	6 3.2	21.0
302307 2001 YO_{132}	15.6	X	231.02941	106.79128	295.30639	10.66798	0.2656032	0.19089101	2.9873015	20	6 4.6	20.8
302308 2001 YU_{149}	15.2	X	92.17853	197.52613	306.98330	14.55365	0.1458377	0.17949661	3.1124225	20	6 3.4	19.9
302309 2001 YT_{158}	17.9	X	173.68793	6.37905	22.47465	5.59946	0.1883848	0.28516662	2.2859686	20	4 2.8	21.3
302310 2001 YZ_{160}	15.8	X	191.74801	325.21670	49.96640	11.15265	0.1843707	0.18246767	3.0785444	20	4 9.5	21.0
302311 2002 AA	19.4	X	47.09364	64.66367	302.18590	11.27683	0.3021480	0.80163826	1.1476702	20	—	—
302312 2002 AX_{5}	16.6	X	59.79695	293.61938	129.61634	27.50069	0.1212702	0.37466325	1.9056450	20	—	—
302313 2002 AK_{9}	16.6	X	356.73285	80.67294	98.30139	6.24026	0.1368576	0.27527669	2.3403982	20	2 3.3	18.8
302314 2002 AE_{32}	15.8	X	163.09533	131.87990	322.35125	7.98562	0.2725826	0.18177641	3.0863442	20	6 17.1	21.4
302315 2002 AN_{45}	16.1	X	199.87000	293.24542	131.19893	8.79845	0.1883513	0.18504239	3.0499208	20	6 11.4	21.2
302316 2002 AF_{47}	15.4	X	143.59069	158.21714	290.20153	8.06884	0.0337031	0.17836884	3.1255280	20	5 9.2	20.1
302317 2002 AS_{47}	15.6	X	130.83305	350.22217	128.65133	6.46130	0.0914236	0.18033344	3.1027864	20	6 9.9	20.4
302318 2002 AE_{48}	17.6	X	56.33396	8.14009	137.85004	5.12807	0.1339142	0.27995303	2.3142624	20	4 11.7	19.8
302319 2002 AM_{54}	15.6	X	97.55352	26.25729	121.83762	11.01583	0.0655936	0.17989405	3.1078367	20	6 5.9	20.1
302320 2002 AR_{58}	16.9	X	54.19306	1.71491	131.52319	5.82311	0.1122685	0.27705945	2.3303477	20	3 16.4	19.1

ELEMENTS AND OPPOSITION DATES IN 2020

ECLIPTIC AND EQUINOX 2000.0, EPOCH 2020 MAY 31.0 TT

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
302321 2002 AO_{60}	15.5	X	76.75807	11.18726	131.92162	16.25157	0.2097456	0.17305252	3.1892172	20	5 28.1	20.2
302322 2002 AE_{67}	15.9	X	164.75980	336.37985	100.41563	9.08731	0.1271937	0.18135760	3.0910940	20	5 26.6	20.8
302323 2002 AW_{72}	15.8	X	155.86502	358.42501	91.41669	10.74814	0.0620310	0.18201076	3.0836944	20	5 30.6	20.5
302324 2002 AQ_{75}	15.7	X	234.54311	318.75949	98.27987	10.97366	0.0532700	0.18831291	3.0145048	20	7 18.1	20.1
302325 2002 AX_{75}	17.1	X	46.24506	239.76076	298.38127	5.62478	0.0978569	0.28376266	2.2935025	20	5 2.5	19.4
302326 2002 AB_{76}	18.0	X	102.52447	15.53178	102.57962	5.98435	0.1942109	0.28415341	2.2913994	20	5 20.1	21.1
302327 2002 AS_{76}	15.5	X	137.73924	161.85937	312.82826	7.81445	0.0665823	0.18178740	3.0862199	20	6 9.1	20.2
302328 2002 AA_{79}	15.8	X	204.62621	355.38657	93.21745	11.30231	0.0910076	0.18845854	3.0129517	20	7 20.5	20.3
302329 2002 AD_{88}	15.9	X	76.59364	55.29976	110.19367	6.39392	0.0869487	0.17901590	3.1179919	20	6 3.7	20.2
302330 2002 AM_{89}	16.9	X	25.72293	315.22668	213.34724	3.33358	0.0970567	0.27870239	2.3211805	20	3 12.4	19.0
302331 2002 AF_{95}	16.1	X	136.31473	352.15302	97.78892	6.92135	0.1576043	0.17844599	3.1246271	20	5 17.2	21.1
302332 2002 AX_{100}	17.3	X	141.65439	82.78531	354.10191	3.45664	0.1605630	0.28448223	2.2896334	20	5 1.0	20.5
302333 2002 AE_{101}	17.4	X	86.28675	223.30932	294.40745	3.44672	0.1160009	0.28636110	2.2796073	20	6 10.9	20.0
302334 2002 AT_{104}	17.5	X	142.20882	310.67631	110.94101	6.29114	0.1456106	0.28323357	2.2963579	20	4 14.5	20.8
302335 2002 AW_{104}	17.6	X	178.00243	91.52787	306.19538	4.61488	0.1546439	0.28562365	2.2835294	20	4 14.3	21.1
302336 2002 AX_{110}	15.8	X	171.98461	24.00198	92.44454	5.22097	0.1679323	0.18478392	3.0527643	20	7 20.3	20.7
302337 2002 AV_{117}	15.0	X	98.65014	32.30746	130.20858	18.57999	0.1452555	0.17816458	3.1279164	20	7 4.8	19.8
302338 2002 AU_{119}	16.0	X	177.72810	127.96948	322.01475	9.25445	0.1481422	0.18246597	3.0785636	20	6 23.2	21.1
302339 2002 AB_{130}	17.0	X	48.63447	42.55060	344.12819	20.74890	0.0826454	0.37180637	1.9153942	20	—	—
302340 2002 AG_{135}	15.6	X	173.28993	293.66619	115.98727	10.97806	0.0925959	0.17973742	3.1096420	20	5 3.9	20.6
302341 2002 AT_{138}	15.9	X	29.57082	52.61791	122.62159	5.96371	0.0983917	0.17253452	3.1955973	20	4 13.2	19.9
302342 2002 AY_{138}	15.6	X	50.87432	278.28268	268.79784	7.87886	0.0362886	0.17930319	3.1146604	20	5 19.2	19.9
302343 2002 AL_{142}	18.0	X	97.46984	245.06257	256.78375	1.49572	0.1493304	0.28585063	2.2823204	20	6 8.5	20.9
302344 2002 AG_{148}	15.3	X	185.67126	298.96565	88.18091	18.65225	0.2540727	0.17938960	3.1136601	20	4 23.9	21.1
302345 2002 AC_{158}	17.0	X	335.90583	267.81180	275.35587	1.57105	0.1531019	0.27079622	2.3661430	20	1 2.9	19.4
302346 2002 AJ_{172}	17.6	X	54.89588	152.92477	347.34914	1.93088	0.1483452	0.27861117	2.3216872	20	3 30.2	19.8
302347 2002 AV_{173}	16.2	X	145.61877	188.24226	308.39874	1.08058	0.1611630	0.18316956	3.0706750	20	7 20.8	21.0
302348 2002 AS_{174}	17.6	X	182.93495	62.60346	341.33982	1.56416	0.2123862	0.28725258	2.2748884	20	4 29.6	21.4
302349 2002 AT_{174}	15.3	X	123.82386	8.53253	119.04412	10.66222	0.0289305	0.17954277	3.1118890	20	6 7.1	19.9
302350 2002 AW_{181}	17.7	X	131.59453	97.32675	307.20446	1.66899	0.2285355	0.28313873	2.2968706	20	3 16.4	21.0
302351 2002 AT_{203}	15.9	X	80.04129	168.78501	340.40952	4.56866	0.1096690	0.17171491	3.2057579	20	5 19.6	20.5
302352 2002 BM_{2}	16.2	X	81.85728	276.10219	208.07586	2.97771	0.0425974	0.17444090	3.1722726	20	4 11.8	20.4
302353 2002 BH_{3}	17.0	X	150.62714	18.75659	73.76968	11.27066	0.1307374	0.28758396	2.2731405	20	5 31.0	20.0
302354 2002 BZ_{3}	15.9	X	189.46781	286.77071	97.35222	23.96220	0.2223153	0.28572058	2.2830129	20	4 23.5	20.3
302355 2002 BB_{13}	15.8	X	128.71998	58.53627	62.85045	10.81192	0.1694835	0.17858798	3.1229707	20	6 16.0	20.8
302356 2002 BP_{18}	17.0	X	10.33499	222.14687	315.89542	6.98193	0.0580920	0.27648799	2.3335577	20	2 29.2	19.6
302357 2002 BE_{26}	16.7	X	89.89860	92.78652	53.07437	23.36025	0.2184688	0.28348224	2.2950148	20	6 10.4	20.0
302358 2002 BY_{26}	15.2	X	192.23774	299.00978	104.37784	19.25751	0.1343609	0.18070120	3.0985751	20	5 16.9	20.4
302359 2002 BR_{29}	16.5	X	290.11294	129.31285	73.53279	8.92133	0.1817249	0.26350547	2.4095889	20	—	—
302360 2002 BO_{31}	15.4	X	96.96076	110.36494	28.77071	9.70288	0.2423357	0.17326730	3.1865811	20	6 13.8	20.4
302361 2002 BQ_{31}	15.9	X	283.48592	325.56748	331.33909	6.06381	0.0365280	0.17126113	3.2114180	20	4 16.2	20.5
302362 2002 BE_{32}	15.6	X	157.50388	68.38974	58.16241	18.34262	0.2074114	0.18113606	3.0936138	20	7 22.7	21.1
302363 2002 CC	15.3	X	89.03650	132.43494	49.64345	27.99686	0.4445920	0.17948499	3.1125568	20	9 3.2	21.3
302364 2002 CX_{1}	15.9	X	185.13662	338.79937	103.97301	13.28627	0.1685130	0.18347152	3.0673048	20	6 20.8	20.9
302365 2002 CD_{9}	16.0	X	180.85587	267.07537	134.61946	9.73483	0.0896826	0.17522045	3.1628567	20	5 1.3	21.0
302366 2002 CJ_{10}	15.6	X	165.52554	250.85686	124.56282	22.51418	0.4062586	0.28088479	2.3091416	20	3 26.6	20.4
302367 2002 CV_{12}	16.2	X	331.97603	72.65154	94.15404	8.02735	0.1792454	0.26737077	2.3863095	20	—	—
302368 2002 CM_{19}	16.3	X	133.73902	139.55582	332.78895	11.28032	0.2412180	0.17895605	3.1186870	20	6 15.0	21.7
302369 2002 CA_{21}	15.3	X	169.60917	107.17482	344.18264	15.71518	0.1996748	0.18047018	3.1012189	20	6 17.5	20.8
302370 2002 CJ_{21}	17.4	X	70.62480	6.69625	144.78710	6.20953	0.1503852	0.28152243	2.3056536	20	5 17.3	20.0
302371 2002 CQ_{21}	15.9	X	160.28346	302.44713	132.91203	9.57888	0.1434322	0.17846316	3.1244266	20	5 22.2	21.0
302372 2002 CF_{22}	15.8	X	139.51771	332.85822	143.93049	10.53071	0.1353080	0.17867189	3.1219928	20	6 19.7	20.9
302373 2002 CP_{28}	15.8	X	187.52837	358.82495	100.80243	7.70800	0.1737484	0.18503746	3.0499750	20	7 13.1	20.8
302374 2002 CE_{41}	15.7	X	139.64916	217.14829	263.36232	10.52776	0.1766020	0.17936507	3.1139440	20	6 25.9	20.8
302375 2002 CF_{41}	17.0	X	240.33727	282.56475	300.99566	19.16846	0.0577968	0.37005095	1.9214468	20	—	—
302376 2002 CG_{43}	15.8	X	276.31709	105.45494	116.40964	9.46512	0.1808072	0.26383421	2.4075869	20	—	—
302377 2002 CS_{43}	17.0	X	159.07407	320.41685	328.69282	20.20950	0.1003301	0.36851858	1.9267696	20	—	—
302378 2002 CY_{45}	15.4	X	101.69553	298.03798	230.89491	12.95204	0.1578061	0.17960505	3.1111696	20	7 14.1	20.3
302379 2002 CT_{50}	15.8	X	107.83696	337.33106	146.15468	13.33620	0.0665695	0.17486187	3.1671792	20	5 20.5	20.6
302380 2002 CZ_{56}	15.3	X	136.21092	288.20182	180.29640	23.20074	0.4364873	0.17722783	3.1389286	20	6 21.8	21.7
302381 2002 CL_{58}	17.4	X	114.24592	234.82836	157.28029	23.17446	0.0809016	0.37673791	1.8986424	20	—	—
302382 2002 CD_{64}	15.3	X	110.52816	46.94584	77.62934	11.37594	0.0564428	0.17517034	3.1634599	20	5 21.4	19.8
302383 2002 CG_{64}	15.6	X	153.34483	125.39805	15.79398	10.48059	0.1902328	0.18386065	3.0629755	20	8 6.9	20.9
302384 2002 CO_{64}	15.3	X	108.58531	32.77073	98.04966	11.61367	0.1702358	0.17553491	3.1590782	20	6 9.2	20.2
302385 2002 CA_{65}	15.4	X	109.57755	67.44749	61.15568	8.78819	0.1689437	0.17625104	3.1505152	20	6 5.9	20.2
302386 2002 CU_{70}	15.7	X	54.79467	226.99976	329.62004	6.30709	0.0512948	0.17797521	3.1301348	20	6 8.1	20.1
302387 2002 CK_{75}	17.5	X	356.11071	65.46896	98.60268	2.21119	0.1175406	0.27122387	2.3636551	20	1 13.9	19.7
302388 2002 CL_{75}	16.9	X	327.91280	66.09232	127.66642	7.40472	0.0531031	0.27144310	2.3623823	20	1 21.1	19.8
302389 2002 CR_{77}	15.8	X	131.21799	320.83787	154.39054	2.44264	0.0631528	0.17726557	3.1384831	20	6 2.8	20.3
302390 2002 CZ_{79}	17.0	X	16.62778	172.82387	337.78106	6.45710	0.0520966	0.27244747	2.3565728	20	2 4.4	19.5
302391 2002 CR_{80}	17.5	X	64.08049	17.26298	138.22170	6.10250	0.1580205	0.27983474	2.3149146	20	5 14.1	20.0
302392 2002 CA_{81}	17.2	X	111.00814	295.86389	138.80118	4.85180	0.1183109	0.27698025	2.3307920	20	3 21.1	20.1
302393 2002 CF_{88}	16.6	X	291.63272	233.28308	347.17935	5.37263	0.0818065	0.26935511	2.3745750	20	1 5.9	19.7
302394 2002 CF_{89}	16.0	X	187.96668	108.37854	328.16566	9.73239	0.1750853	0.18127883	3.0919894	20	6 15.0	21.3
302395 2002 CS_{91}	17.2	X	345.19003	135.16838	29.06073	2.96219	0.1419410	0.26861761	2.3789194	20	—	—
302396 2002 CN_{93}	16.2	X	90.27409	164.99760	1.14355	3.52874	0.1755877	0.17655768	3.1468664	20	7 3.6	20.8
302397 2002 CC_{97}	17.2	X	130.60871	88.26183	24.78721	3.19477	0.1515908	0.28447047	2.2896965	20	6 7.2	20.5
302398 2002 CC_{101}	16.8	X	294.71282	91.74219	130.76494	5.18147	0.0576368	0.26844849	2.3799184	20	1 14.9	19.7
302399 2002 CK_{103}	17.0	X	72.79868	159.04170	340.58337	23.82065	0.2063293	0.27848189	2.3224056	20	4 25.9	20.2
302400 2002 CL_{104}	16.5	X	218.53237	91.80061	147.35944	9.11015	0.2090715	0.25650046	2.4532621	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
302401 2002 CG_{105}	16.6	X	320.85121	170.58273	350.99269	5.21697	0.1037663	0.26337161	2.4104053	20	—	—
302402 2002 CL_{113}	15.2	X	64.39528	214.44608	346.67321	9.69235	0.0789605	0.18082100	3.0972063	20	7 3.1	19.5
302403 2002 CD_{123}	17.6	X	117.73966	324.87392	157.16783	6.91288	0.1663169	0.28481444	2.2878526	20	6 8.2	21.0
302404 2002 CS_{123}	15.8	X	93.35274	214.40608	301.12550	3.90430	0.0668105	0.17718107	3.1394809	20	6 8.4	20.3
302405 2002 CD_{133}	17.3	X	59.02956	191.29395	328.58708	1.93066	0.1070777	0.27859202	2.3217935	20	4 30.1	19.8
302406 2002 CR_{153}	17.9	X	202.80078	276.08185	323.21853	1.69299	0.1357054	0.25927528	2.4357272	20	—	—
302407 2002 CX_{155}	15.1	X	224.31367	260.05687	118.74913	17.01717	0.1139044	0.17947564	3.1126649	20	5 18.4	20.2
302408 2002 CM_{156}	17.9	X	84.73698	356.63374	134.00635	3.49574	0.1859411	0.28176298	2.3043411	20	5 13.2	20.6
302409 2002 CS_{156}	16.9	X	56.12289	353.18354	113.53040	6.18498	0.0047613	0.27446359	2.3450182	20	1 30.9	19.8
302410 2002 CG_{162}	16.9	X	321.38130	156.07182	46.71468	3.28164	0.1650703	0.27062114	2.3671634	20	1 7.5	19.8
302411 2002 CL_{177}	15.7	X	62.60276	218.72704	323.29478	9.39211	0.0709567	0.17707369	3.1407499	20	6 1.8	20.1
302412 2002 CS_{182}	16.6	X	284.66566	103.90037	123.23497	7.34860	0.0616701	0.27044056	2.3682170	20	1 7.5	19.7
302413 2002 CW_{196}	17.6	X	272.18171	211.95559	12.51164	2.61633	0.1789315	0.26544125	2.3978597	20	—	—
302414 2002 CJ_{197}	16.4	X	91.94325	73.27945	72.78843	2.84218	0.1438751	0.17520031	3.1630991	20	6 5.6	20.9
302415 2002 CF_{206}	16.5	X	157.55924	268.10257	344.67085	5.74279	0.1010866	0.25296882	2.4760423	20	12 30.9	20.2
302416 2002 CG_{212}	18.0	X	0.32594	78.24089	132.31959	4.37503	0.0863308	0.27809221	2.3245746	20	4 2.8	20.3
302417 2002 CA_{215}	16.2	X	70.14065	87.23966	75.95380	1.75492	0.1605861	0.17263989	3.1942969	20	6 2.4	20.4
302418 2002 CH_{217}	16.9	X	99.89233	97.38932	356.08044	7.60837	0.0626605	0.27577504	2.3375778	20	3 21.1	19.8
302419 2002 CZ_{221}	16.5	X	174.32153	122.33819	313.94522	4.32207	0.1174967	0.18018275	3.1045161	20	6 1.9	21.4
302420 2002 CV_{228}	17.4	X	182.92223	284.59651	86.24765	6.50934	0.1613691	0.27742658	2.3282914	20	3 22.0	21.1
302421 2002 CU_{230}	16.1	X	122.75180	270.73356	216.71336	8.06707	0.2233578	0.17628884	3.1500649	20	6 22.4	21.3
302422 2002 CU_{248}	15.8	X	127.08384	349.76237	173.80916	9.43549	0.2084919	0.18216140	3.0819942	20	8 6.8	21.0
302423 2002 CD_{249}	15.8	X	254.23065	70.41440	161.23419	10.56163	0.0092812	0.15718588	3.4003767	20	1 2.4	20.8
302424 2002 CH_{256}	15.9	X	160.47985	6.64203	98.45573	6.15467	0.1276914	0.18131205	3.0916116	20	6 24.7	20.8
302425 2002 CP_{282}	16.2	X	74.93818	60.64037	140.99355	3.43609	0.0818373	0.18184537	3.0855639	20	7 16.6	20.5
302426 2002 CP_{293}	17.3	X	317.64542	41.23972	152.25472	4.92332	0.0438438	0.26909010	2.3761339	20	1 8.2	20.3
302427 2002 CB_{296}	16.3	X	121.47215	149.02461	1.60693	0.76552	0.1172659	0.17901372	3.1180172	20	7 11.3	20.9
302428 2002 CL_{297}	15.6	X	83.63924	28.16026	133.32286	13.58272	0.1262444	0.17752991	3.1353668	20	6 14.3	20.2
302429 2002 CU_{297}	17.3	X	79.20599	196.20465	307.01036	3.67781	0.0723229	0.28254814	2.3000701	20	4 30.9	20.1
302430 2002 CL_{303}	15.9	X	39.18794	147.15738	13.47098	4.68300	0.0662382	0.16948288	3.2338422	20	4 3.7	20.0
302431 2002 CW_{305}	17.0	X	299.37728	203.50625	8.91080	7.67796	0.1833183	0.26756810	2.3851361	20	—	—
302432 2002 CR_{317}	16.0	X	198.92478	51.27955	14.18356	4.49925	0.1184876	0.18129244	3.0918346	20	6 12.9	20.9
302433 2002 DZ_{9}	15.5	X	89.77279	98.73014	73.93958	17.26562	0.1880391	0.17789687	3.1310537	20	7 12.9	20.3
302434 2002 DX_{18}	17.2	X	79.48706	303.38111	142.98769	7.62563	0.1335285	0.27258366	2.3557878	20	2 22.1	19.5
302435 2002 DD_{19}	17.4	X	126.50854	116.99648	294.01687	5.68020	0.1164389	0.27684226	2.3315664	20	3 4.2	20.5
302436 2002 EZ_{8}	17.5	X	78.99688	40.38511	351.72612	18.78854	0.1056678	0.37072462	1.9191184	20	—	—
302437 2002 EV_{18}	16.9	X	292.41553	250.35459	332.92623	4.43869	0.1623413	0.26681742	2.3896076	20	—	—
302438 2002 EF_{24}	16.4	X	85.58612	336.35882	153.65786	0.39430	0.0923157	0.16987378	3.2288794	20	5 1.5	20.7
302439 2002 EF_{29}	15.3	X	126.12583	320.57575	172.54316	17.30849	0.1599894	0.17608734	3.1524676	20	6 27.6	20.6
302440 2002 EQ_{40}	16.5	X	338.25757	212.84430	1.09571	6.71525	0.0821488	0.27162196	2.3613451	20	3 1.9	19.2
302441 2002 EB_{41}	17.0	X	333.80780	261.01827	285.72831	2.44945	0.1361477	0.26910565	2.3760423	20	1 7.8	19.7
302442 2002 ES_{41}	17.0	X	46.91774	153.98457	324.01255	5.93335	0.0759057	0.27190725	2.3596931	20	2 6.2	19.4
302443 2002 EM_{55}	16.1	X	203.80895	269.06435	159.06367	15.33518	0.3125807	0.18480595	3.0525217	20	6 15.0	21.9
302444 2002 EF_{64}	17.6	X	27.52586	320.02716	190.59046	3.10739	0.1365493	0.27211264	2.3585056	20	2 19.1	19.7
302445 2002 EC_{65}	17.3	X	308.74798	359.30900	174.87741	6.06232	0.0807377	0.26291414	2.4132006	20	—	—
302446 2002 EF_{67}	17.1	X	1.68794	285.26478	264.95931	1.40777	0.1514719	0.27230590	2.3573895	20	2 26.6	19.2
302447 2002 EH_{71}	16.8	X	31.23742	259.68052	288.48069	2.00416	0.1419956	0.27608860	2.3358076	20	4 26.4	18.8
302448 2002 EF_{83}	17.4	X	4.10345	315.40367	233.74562	0.88818	0.1263531	0.27246177	2.3564904	20	3 3.3	19.4
302449 2002 EB_{91}	15.4	X	97.35090	342.06849	140.79063	5.62245	0.0897611	0.17024509	3.2241828	20	5 8.6	20.1
302450 2002 EH_{91}	17.1	X	22.48434	166.39554	18.55593	3.02111	0.1624983	0.27492342	2.3424027	20	4 4.3	18.7
302451 2002 EA_{95}	17.6	X	74.02740	109.18407	31.02766	2.99888	0.1501109	0.27843420	2.3226708	20	5 3.4	20.0
302452 2002 EU_{95}	15.8	X	163.36744	84.71548	351.01214	15.05336	0.2453445	0.17713393	3.1400378	20	5 21.4	21.5
302453 2002 ET_{99}	16.6	X	287.42341	28.61330	186.34318	9.53427	0.2121514	0.26513389	2.3997125	20	—	—
302454 2002 EY_{100}	17.5	X	355.06042	105.05745	81.34131	6.60018	0.1829303	0.27225658	2.3576742	20	2 6.5	19.6
302455 2002 EM_{101}	15.6	X	167.79914	275.69839	178.32959	21.56876	0.2078795	0.17970238	3.1100461	20	6 19.6	21.3
302456 2002 ER_{111}	16.9	X	59.37747	55.97592	86.78901	7.48031	0.2126913	0.27549274	2.3391744	20	4 27.1	19.1
302457 2002 EB_{112}	15.9	X	122.93709	87.93918	2.58168	8.95510	0.0271699	0.16959138	3.2324628	20	4 16.7	20.6
302458 2002 EE_{114}	17.2	X	23.34638	92.43474	15.62778	3.63987	0.0890829	0.26569440	2.3963364	20	—	—
302459 2002 ES_{117}	17.1	X	107.10537	123.78122	325.24381	6.43462	0.0769583	0.27729554	2.3290249	20	3 24.7	20.0
302460 2002 EM_{121}	17.0	X	54.33516	170.85287	358.17599	3.04251	0.1617516	0.27657915	2.3330449	20	5 14.9	19.2
302461 2002 EA_{123}	16.6	X	160.82207	230.84002	261.86422	3.36034	0.2397369	0.18276390	3.0752170	20	7 29.8	22.1
302462 2002 EL_{125}	16.8	X	90.75375	267.71854	145.76867	6.98302	0.1292658	0.26830088	2.3807913	20	1 23.5	19.3
302463 2002 EB_{128}	15.4	X	112.73321	303.31908	147.83939	11.64350	0.0412354	0.16976764	3.2302250	20	4 13.1	20.1
302464 2002 ET_{130}	15.6	X	24.39228	166.65090	23.80868	4.57968	0.0586255	0.16845695	3.2469587	20	4 19.8	19.9
302465 2002 EM_{131}	17.9	X	65.88531	20.75227	145.00925	3.27391	0.1494185	0.27996629	2.3141893	20	5 29.6	20.4
302466 2002 ES_{136}	18.1	X	8.37684	78.15890	86.45061	2.15760	0.1184225	0.27093774	2.3653189	20	2 5.8	20.3
302467 2002 EB_{143}	15.9	X	120.49603	304.68559	156.24854	5.53361	0.1279693	0.17137562	3.2099876	20	5 12.2	20.8
302468 2002 EL_{145}	16.9	X	315.58589	181.70580	359.81649	4.96619	0.1450000	0.26384339	2.4075311	20	—	—
302469 2002 EG_{148}	17.5	X	306.23338	77.31039	154.67017	5.76939	0.1542118	0.26894386	2.3769952	20	1 27.4	20.6
302470 2002 ED_{155}	17.1	X	256.98499	11.63686	208.70139	2.77942	0.1249269	0.25970799	2.4330209	20	—	—
302471 2002 FC_{7}	15.0	X	55.00710	141.42081	16.27323	26.55101	0.0958896	0.16910093	3.2387099	20	4 19.5	19.5
302472 2002 FC_{12}	16.9	X	290.49864	46.92951	163.89219	4.82489	0.0478088	0.26546877	2.3976940	20	—	—
302473 2002 FN_{15}	15.3	X	114.98706	46.72852	78.18397	10.82574	0.2145164	0.17411195	3.1762669	20	6 11.8	20.2
302474 2002 FY_{18}	15.7	X	185.87250	84.87219	351.42238	9.13659	0.0996302	0.17891512	3.1191627	20	6 13.5	20.7
302475 2002 FN_{22}	15.0	X	63.56630	121.16828	32.78416	19.05892	0.0811856	0.17082113	3.2169303	20	4 29.3	19.4
302476 2002 FH_{24}	15.4	X	70.97812	127.04742	66.25054	17.67218	0.1645109	0.17810806	3.1285781	20	7 13.9	20.0
302477 2002 FT_{31}	16.7	X	251.63745	120.24237	108.75251	3.23235	0.1249080	0.26043810	2.4284717	20	—	—
302478 2002 FS_{36}	17.0	X	72.84433	129.77993	10.10318	7.51248	0.1083765	0.27793990	2.3254238	20	4 22.3	19.5
302479 2002 GG_{15}	17.2	X	141.47725	303.96467	15.40742	21.75005	0.0287032	0.36659806	1.9334930	20	—	—
302480 2002 GS_{23}	16.9	X	350.39314	181.53372	15.45943	7.31139	0.1090226	0.26969134	2.3726010	20	2 24.9	19.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
302481 2002 GD_{24}	17.1	X	332.66881	201.25927	6.81755	4.92976	0.2390035	0.26767160	2.3845212	20	1 20.4	19.9
302482 2002 GK_{25}	16.2	X	111.75240	351.10676	137.43993	1.54741	0.1708966	0.16942206	3.2346161	20	6 8.9	21.2
302483 2002 GL_{41}	16.6	X	293.87950	6.32094	193.55171	6.98189	0.0668911	0.26271304	2.4144319	20	—	—
302484 2002 GG_{42}	17.5	X	263.83135	169.86960	33.12663	2.30166	0.1135499	0.25767793	2.4457828	20	—	—
302485 2002 GO_{51}	17.0	X	27.12727	93.70675	17.75290	10.67982	0.1934273	0.26578496	2.3957920	20	—	—
302486 2002 GP_{61}	17.1	X	75.60494	298.49755	173.63311	4.30925	0.1224008	0.27122999	2.3636195	20	3 22.2	19.4
302487 2002 GD_{63}	16.8	X	39.25512	38.92006	100.26568	2.32814	0.1249179	0.26935754	2.3745608	20	2 27.5	19.0
302488 2002 GL_{64}	17.0	X	56.05892	64.54851	72.79669	3.68963	0.1021099	0.27123670	2.3635806	20	3 25.3	19.4
302489 2002 GC_{74}	17.1	X	287.60121	152.59208	74.25672	3.18018	0.1370038	0.26330452	2.4108148	20	1 2.9	20.3
302490 2002 GW_{77}	16.8	X	16.12910	324.00496	224.04752	4.32225	0.0849022	0.27311593	2.3527260	20	3 24.8	19.1
302491 2002 GS_{82}	16.5	X	126.54950	124.19096	166.81980	11.64013	0.2903615	0.24494925	2.5297949	20	—	—
302492 2002 GX_{88}	16.7	X	13.13384	42.11962	97.37197	6.13963	0.1498090	0.26503103	2.4003334	20	1 6.4	18.8
302493 2002 GB_{90}	17.7	X	296.21997	357.30565	203.46755	1.85765	0.1601852	0.26168429	2.4207556	20	—	—
302494 2002 GV_{94}	16.6	X	293.85128	168.25291	12.38174	4.35379	0.0648777	0.25887769	2.4382204	20	—	—
302495 2002 GS_{95}	17.0	X	260.44109	240.58862	355.31271	4.06105	0.1566436	0.26028574	2.4294193	20	—	—
302496 2002 GK_{99}	17.5	X	356.96786	189.27272	8.73891	1.56332	0.1230011	0.27191142	2.3596690	20	3 4.5	19.6
302497 2002 GR_{113}	17.0	X	307.06624	70.41419	128.63465	6.25948	0.1032059	0.26444188	2.4038972	20	—	—
302498 2002 GZ_{116}	16.7	X	49.41608	51.96093	81.89766	8.07530	0.0674550	0.26973034	2.3723723	20	3 8.2	19.4
302499 2002 GG_{118}	17.0	X	255.38477	153.63926	64.42512	7.80181	0.1471260	0.25859012	2.4400277	20	—	—
302500 2002 GY_{123}	15.9	X	133.12502	300.42462	177.79333	17.52098	0.2315028	0.17723550	3.1388380	20	6 21.2	21.5
302501 2002 GN_{126}	17.3	X	261.35547	356.15163	207.21727	2.21399	0.1765189	0.25781575	2.4449112	20	—	—
302502 2002 GQ_{128}	17.2	X	30.14838	278.20905	236.47585	3.07518	0.1059107	0.27113011	2.3642000	20	2 29.6	19.6
302503 2002 GR_{129}	16.6	X	305.40238	123.88312	11.67152	7.13557	0.0617554	0.25471657	2.4647029	20	—	—
302504 2002 GQ_{150}	17.3	X	32.90772	137.22047	21.67724	7.50043	0.0567733	0.27137820	2.3627589	20	3 14.4	19.8
302505 2002 GO_{163}	16.9	X	73.88680	305.85826	182.33493	9.71141	0.1533306	0.27516644	2.3410233	20	4 18.2	19.4
302506 2002 GZ_{164}	17.1	X	304.12211	48.21294	178.36407	2.24906	0.1618936	0.26518783	2.3993871	20	1 17.5	20.3
302507 2002 GS_{169}	16.6	X	214.62043	250.49497	20.84407	8.85991	0.0726093	0.25812580	2.4429530	20	—	—
302508 2002 GU_{176}	15.6	X	121.57956	76.27369	33.40452	25.66405	0.2485485	0.17048813	3.2211179	20	5 26.5	21.2
302509 2002 GK_{184}	15.9	X	125.62797	302.13738	170.94374	5.35534	0.1228124	0.17225321	3.1990756	20	5 31.2	20.8
302510 2002 GP_{189}	15.7	X	97.61794	317.59812	167.51698	15.80202	0.1114300	0.16948514	3.2338135	20	5 16.1	20.6
302511 2002 GJ_{190}	16.6	X	1.52167	292.43834	220.98148	11.41263	0.0608188	0.26434725	2.4044709	20	1 12.8	19.6
302512 2002 HJ_{2}	16.7	X	353.58328	105.49518	56.01598	8.32491	0.0612509	0.26627097	2.3928759	20	1 15.8	19.5
302513 2002 HY_{5}	17.0	X	22.39256	7.09512	148.92996	1.70674	0.1095092	0.26995122	2.3710781	20	2 19.1	19.3
302514 2002 JP_{38}	16.7	X	10.38113	156.18988	28.20572	8.18767	0.1342164	0.26988429	2.3714701	20	3 12.7	18.8
302515 2002 JK_{66}	16.5	X	27.92235	85.26888	66.10309	4.47701	0.1800280	0.26813239	2.3817885	20	2 26.3	18.3
302516 2002 JV_{69}	16.4	X	318.12246	139.91568	82.02970	8.51481	0.1703068	0.26799409	2.3826079	20	1 29.9	19.4
302517 2002 JJ_{71}	17.7	X	339.52245	264.68570	216.25540	21.58361	0.0194044	0.36439287	1.9412858	20	—	—
302518 2002 JE_{78}	16.7	X	337.02842	241.38034	314.33711	1.44461	0.1180556	0.26729998	2.3867308	20	1 28.4	19.4
302519 2002 JL_{79}	16.6	X	28.00380	285.04558	228.96956	3.60291	0.1208828	0.26970650	2.3725121	20	2 24.8	18.8
302520 2002 JA_{130}	16.4	X	328.20761	316.33695	206.35653	12.46043	0.1327124	0.26043826	2.4284707	20	—	—
302521 2002 JT_{134}	17.0	X	303.23124	168.78766	37.43782	5.99009	0.0786794	0.26212531	2.4180396	20	1 3.2	20.1
302522 2002 JC_{147}	16.3	X	53.23311	145.44920	168.62018	13.75032	0.1873314	0.23567404	2.5957422	20	12 5.4	20.3
302523 2002 KH_{3}	17.5	X	23.32008	35.11455	259.06415	10.24518	0.5844675	0.22494289	2.6776545	20	11 27.4	21.3
302524 2002 KA_{10}	16.9	X	231.82153	202.58393	55.21222	6.27904	0.1824533	0.25711884	2.4493270	20	—	—
302525 2002 KR_{16}	16.5	X	44.42774	146.38289	202.49735	18.92334	0.3140772	0.23476216	2.6024595	20	—	—
302526 2002 LQ_{3}	16.9	X	108.29890	157.76464	98.67796	9.68142	0.3377531	0.23630540	2.5911165	20	11 24.3	21.8
302527 2002 LR_{22}	16.7	X	144.78152	185.78947	69.57277	11.50738	0.1835260	0.24179448	2.5517520	20	12 15.8	21.0
302528 2002 LH_{27}	16.3	X	179.47830	5.28131	238.54081	10.88359	0.1023997	0.24578043	2.5240881	20	—	—
302529 2002 LU_{39}	16.8	X	80.30126	162.44655	153.81411	8.56159	0.3077710	0.23742859	2.5829384	20	—	—
302530 2002 LC_{58}	15.1	X	343.42385	112.23261	228.31446	29.15801	0.4242732	0.21674222	2.7447768	20	9 15.1	17.1
302531 2002 LL_{58}	15.8	X	357.88508	295.90749	43.13520	5.31752	0.4076737	0.22273150	2.6953487	20	11 18.8	17.7
302532 2002 LL_{64}	17.7	X	19.72676	10.56394	329.15442	4.02662	0.2618648	0.22791736	2.6543068	20	12 3.2	20.9
302533 2002 LN_{64}	16.7	X	113.30629	31.14873	242.65984	6.48078	0.1898151	0.23606018	2.5929107	20	12 11.2	20.9
302534 2002 LQ_{64}	16.9	X	85.23053	327.85157	18.99550	0.97957	0.1627847	0.23943409	2.5684950	20	—	—
302535 2002 MM_{5}	16.5	X	140.68778	19.26610	267.66918	4.07110	0.1464015	0.24095408	2.5576819	20	—	—
302536 2002 NM	16.6	X	16.92773	242.52303	107.03990	13.68809	0.2869994	0.22787089	2.6546676	20	12 17.7	19.8
302537 2002 NZ	16.2	X	158.67377	44.97560	227.57842	12.88554	0.1395833	0.24067548	2.5596553	20	—	—
302538 2002 NE_{8}	16.5	X	55.79280	78.43401	269.91579	7.44992	0.1572448	0.23415592	2.6069495	20	—	—
302539 2002 NG_{38}	16.1	X	129.66840	28.54468	256.19492	6.48948	0.1750861	0.23734180	2.5835680	20	—	—
302540 2002 NA_{40}	17.4	X	42.64402	30.69970	287.96495	2.63970	0.2531750	0.22854962	2.6494092	20	12 4.4	21.2
302541 2002 NL_{44}	16.5	X	30.29745	98.54465	254.50299	6.12312	0.2246238	0.23032656	2.6357651	20	12 29.3	20.0
302542 Tilmann	17.8	X	69.48761	277.20730	53.89643	2.96257	0.2197080	0.23481774	2.6020489	20	—	—
302543 2002 NW_{63}	17.0	X	195.92763	295.01086	304.37074	6.98511	0.1331424	0.24363491	2.5388851	20	—	—
302544 2002 NS_{67}	16.1	X	146.49730	70.40357	192.06335	13.18070	0.1138544	0.23767982	2.5811179	20	12 26.5	20.4
302545 2002 NE_{68}	16.7	X	126.23156	109.24033	165.42674	9.53985	0.1913388	0.23713309	2.5850837	20	12 23.1	21.2
302546 2002 NH_{72}	16.8	X	96.02023	146.52651	185.44385	5.38053	0.1094780	0.23960588	2.5672672	20	—	—
302547 2002 NX_{74}	16.6	X	46.38326	203.64533	156.99428	3.77689	0.1370645	0.23396430	2.6083727	20	—	—
302548 2002 NA_{77}	16.7	X	87.27195	292.98170	36.40329	3.22637	0.1497436	0.23624153	2.5915836	20	—	—
302549 2002 OO_{8}	16.3	X	96.06755	171.94026	142.53609	10.73035	0.1646370	0.23611247	2.5925279	20	—	—
302550 2002 OC_{12}	15.8	X	48.21330	168.79558	231.29622	13.20794	0.1621350	0.23935547	2.5690574	20	—	—
302551 2002 OC_{23}	15.6	X	86.48699	72.20173	261.84411	13.76270	0.1406410	0.23719305	2.5846480	20	—	—
302552 2002 OA_{28}	16.3	X	20.78620	241.12281	175.41483	4.77122	0.1811363	0.23710467	2.5852902	20	—	—
302553 2002 ON_{28}	17.3	X	72.64055	113.42209	180.65225	15.28722	0.1899389	0.22935459	2.6432065	20	11 29.9	21.6
302554 2002 OV_{30}	16.3	X	354.01095	177.58751	229.65585	9.07259	0.1541495	0.23039300	2.6352583	20	—	—
302555 2002 OA_{33}	17.2	X	74.60134	95.19859	170.16464	6.96657	0.1810434	0.22857348	2.6492248	20	10 26.7	21.2
302556 2002 OW_{33}	16.4	X	137.82238	137.94561	137.80697	13.77475	0.0839603	0.23761986	2.5815521	20	—	—
302557 2002 OD_{34}	16.6	X	337.28387	1.14830	342.66335	12.42110	0.1577631	0.22098438	2.7095364	20	9 4.3	19.2
302558 2002 OZ_{34}	16.4	X	27.72752	235.76910	123.96460	10.50752	0.1515838	0.22978582	2.6398985	20	12 24.5	19.9
302559 2002 OQ_{36}	16.5	X	131.10677	356.91476	258.33597	4.40195	0.0517616	0.23392619	2.6086560	20	12 2.2	20.2
302560 2002 PG	16.9	X	144.20740	1.06938	287.28955	3.26136	0.1645048	0.24108591	2.5567494	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
302561 2002 PB_3	16.1	X	41.95331	33.94599	280.47669	14.35461	0.1954870	0.22687736	2.6624121	20	11 18.4	19.9
302562 2002 PS_{15}	16.9	X	109.43456	133.40948	151.27109	6.24269	0.2038759	0.23594150	2.5937801	20	12 21.4	21.3
302563 2002 PV_{16}	16.6	X	150.78656	356.67939	288.49029	2.92660	0.1882696	0.24201515	2.5502006	20	—	—
302564 2002 PH_{27}	16.4	X	26.39901	249.47596	146.76009	14.50641	0.0927134	0.23590213	2.5940687	20	—	—
302565 2002 PK_{30}	16.9	X	34.56865	69.13888	300.00180	1.06531	0.2297463	0.23147378	2.6270490	20	—	—
302566 2002 PN_{35}	17.0	X	9.72622	259.76213	141.31777	13.50000	0.2738557	0.23087023	2.6316255	20	—	—
302567 2002 PS_{52}	16.8	X	80.19710	317.96448	31.62002	2.75765	0.1362500	0.23735216	2.5834928	20	—	—
302568 2002 PW_{54}	16.2	X	15.67156	62.35610	309.66387	11.64612	0.2686488	0.22805524	2.6532368	20	—	—
302569 2002 PR_{71}	16.4	X	19.85324	120.10549	249.10528	9.58728	0.2147555	0.23017440	2.6369265	20	—	—
302570 2002 PD_{73}	16.5	X	118.47141	81.10283	217.14976	9.74444	0.0633489	0.23707927	2.5854749	20	—	—
302571 2002 PR_{73}	16.5	X	2.56969	135.28602	264.11978	11.84292	0.2504886	0.22971117	2.6404704	20	—	—
302572 2002 PB_{79}	16.4	X	13.32314	253.31875	119.22596	14.87210	0.1870791	0.22886329	2.6469879	20	12 26.7	19.8
302573 2002 PU_{83}	16.2	X	55.95777	186.33555	140.15929	14.46941	0.1864855	0.22979870	2.6397998	20	12 21.5	20.3
302574 2002 PV_{90}	15.7	X	49.48825	83.69531	284.56042	12.53270	0.1206415	0.23227529	2.6210021	20	—	—
302575 2002 PU_{103}	16.6	X	36.78860	108.57681	209.96948	7.54841	0.1999202	0.22693574	2.6619555	20	11 20.5	20.0
302576 2002 PE_{106}	16.3	X	1.74035	129.98743	281.37300	10.63779	0.1867318	0.23178746	2.6246784	20	—	—
302577 2002 PX_{108}	16.4	X	152.57162	220.53352	35.86304	5.17369	0.2450037	0.23925158	2.5698011	20	12 21.5	20.9
302578 2002 PC_{110}	16.5	X	348.35150	69.03534	330.45223	13.06631	0.4391235	0.22496651	2.6774670	20	—	—
302579 2002 PR_{115}	16.0	X	21.73811	123.40149	262.05831	10.36787	0.1982636	0.23113917	2.6295838	20	—	—
302580 2002 PW_{132}	16.3	X	87.15798	21.81099	294.30518	7.57294	0.1196011	0.23500629	2.6006569	20	—	—
302581 2002 PK_{155}	16.9	X	78.19067	307.08434	20.80075	1.41096	0.1625560	0.23455999	2.6039547	20	—	—
302582 2002 PT_{172}	17.1	X	325.67164	11.24132	95.23509	1.76030	0.0332491	0.23808071	2.5782196	20	—	—
302583 2002 PF_{180}	17.0	X	15.78222	241.60193	139.25831	4.27846	0.1361375	0.23126633	2.6286198	20	—	—
302584 2002 PS_{180}	16.8	X	188.00911	337.06450	232.46392	6.45934	0.1132801	0.23423918	2.6063317	20	12 4.2	20.7
302585 2002 PD_{189}	17.2	X	15.92365	208.47583	140.08350	14.57134	0.1728071	0.22816242	2.6524058	20	11 29.6	20.7
302586 2002 PY_{195}	16.9	X	236.01148	23.53118	164.82994	7.95105	0.0478517	0.23773905	2.5806892	20	—	—
302587 2002 PB_{196}	17.0	X	345.23334	242.50822	163.00700	9.04209	0.1258306	0.22985990	2.6393313	20	12 17.7	20.1
302588 2002 PK_{197}	17.3	X	15.64190	148.61333	244.59701	2.74276	0.1948945	0.23319269	2.6141235	20	—	—
302589 2002 PT_{198}	16.5	X	76.90251	38.91506	257.31688	14.97527	0.1845785	0.22958460	2.6414408	20	12 4.4	20.6
302590 2002 QX_1	16.6	X	76.40891	123.38214	170.21776	14.10998	0.0722188	0.22902430	2.6457471	20	11 21.5	20.6
302591 2002 QE_7	19.6	X	343.79671	88.40617	244.47665	12.11173	0.1812259	0.55307389	1.4698757	20	12 20.1	19.9
302592 2002 QZ_{13}	17.1	X	58.24723	139.66451	190.87990	12.15090	0.1434806	0.23095153	2.6310079	20	12 22.6	21.1
302593 2002 QF_{14}	16.6	X	1.52558	81.12350	296.60890	13.48419	0.1605408	0.22691670	2.6621044	20	12 10.0	19.8
302594 2002 QL_{25}	16.5	X	89.57481	105.75213	161.00247	13.62307	0.2746870	0.22945072	2.6424682	20	11 20.5	21.2
302595 2002 QC_{53}	17.0	X	30.45028	191.17790	144.85990	5.22268	0.1270586	0.22689003	2.6623130	20	11 24.3	20.5
302596 2002 QL_{59}	16.6	X	6.77482	212.49912	201.56643	4.42698	0.2188938	0.23206362	2.6225957	20	—	—
302597 2002 QP_{60}	17.4	X	10.33607	115.12933	229.47339	7.28069	0.2194289	0.22473117	2.6793360	20	11 18.2	20.1
302598 2002 QL_{65}	17.4	X	52.39430	283.03880	80.92281	0.14597	0.1144334	0.23416672	2.6068694	20	—	—
302599 2002 QM_{65}	16.9	X	13.97190	33.62532	345.79424	2.14120	0.1124673	0.23030860	2.6359021	20	12 25.1	20.2
302600 2002 QH_{73}	16.8	X	16.83383	250.17022	163.18530	4.66275	0.1633818	0.23428019	2.6060275	20	—	—
302601 2002 QF_{78}	16.7	X	31.14307	87.69587	290.03588	10.03072	0.2047162	0.23284208	2.6167470	20	—	—
302602 2002 QG_{82}	17.2	X	3.12553	221.62378	162.81348	12.40415	0.1968078	0.22845854	2.6501134	20	12 27.5	20.5
302603 2002 QV_{83}	16.6	X	334.14989	100.43673	337.74181	3.69580	0.0431268	0.23334741	2.6129678	20	—	—
302604 2002 QB_{84}	17.5	X	88.98785	125.93167	162.33804	11.68620	0.1848920	0.23116258	2.6294063	20	12 7.8	21.9
302605 2002 QH_{93}	16.5	X	94.20391	298.37340	355.12238	11.40096	0.1734277	0.23187913	2.6239866	20	12 15.9	20.9
302606 2002 QU_{95}	16.9	X	64.39031	306.85812	34.53130	4.20745	0.1101905	0.23315735	2.6143876	20	—	—
302607 2002 QD_{105}	16.9	X	5.87011	286.81420	146.83183	4.54099	0.1390798	0.23594790	2.5937332	20	—	—
302608 2002 QP_{105}	17.1	X	120.89366	206.97609	46.52446	4.10673	0.0406630	0.22874887	2.6478705	20	11 16.8	20.9
302609 2002 QC_{106}	16.4	X	338.98760	295.79037	65.47630	7.09950	0.0690315	0.22222270	2.6994613	20	10 5.5	19.7
302610 2002 QX_{106}	17.5	X	333.64452	45.85275	0.75616	3.98179	0.3044202	0.22455138	2.6807660	20	12 11.3	19.2
302611 2002 QB_{107}	16.5	X	2.15833	138.55749	271.80986	3.65317	0.1990553	0.23180986	2.6245093	20	—	—
302612 2002 QP_{116}	17.1	X	327.96807	7.73195	15.12507	2.95606	0.1130915	0.22326335	2.6910665	20	10 13.7	20.0
302613 2002 QG_{122}	16.6	X	350.21124	189.35829	247.90482	4.97427	0.2303559	0.23236661	2.6203154	20	—	—
302614 2002 QE_{128}	17.0	X	101.85617	266.71691	4.04018	4.01056	0.1701000	0.23077581	2.6323433	20	11 25.1	21.3
302615 2002 QQ_{129}	17.4	X	185.80175	260.74431	344.64457	3.70870	0.1750683	0.24049359	2.5609458	20	—	—
302616 2002 QS_{134}	16.6	X	23.43823	307.63266	81.59226	3.64037	0.1066581	0.23207129	2.6225379	20	—	—
302617 2002 QD_{135}	17.2	X	27.53901	18.75979	13.23508	9.57337	0.1266647	0.23291979	2.6161650	20	—	—
302618 2002 QT_{135}	16.8	X	9.60740	240.14599	119.75997	6.81447	0.0730181	0.22641013	2.6660737	20	11 18.9	20.2
302619 2002 QU_{136}	16.4	X	52.63416	82.43637	183.10170	12.21786	0.1724680	0.22171382	2.7035903	20	9 27.5	20.1
302620 2002 QR_{137}	16.8	X	155.21728	151.72821	136.20974	2.40973	0.0917839	0.23905340	2.5712212	20	—	—
302621 2002 QT_{137}	17.4	X	38.60150	162.97684	188.65662	1.31444	0.1007305	0.23161332	2.6259938	20	12 20.7	20.8
302622 2002 QF_{138}	16.9	X	76.74600	211.72707	138.59047	1.89684	0.0954618	0.23720899	2.5845323	20	—	—
302623 2002 QE_{140}	17.3	X	24.10453	172.35390	168.20968	6.10539	0.2244550	0.22629484	2.6669791	20	12 5.7	20.7
302624 2002 QN_{143}	16.7	X	303.86229	163.02772	337.52447	2.69585	0.0136194	0.23951285	2.5679319	20	—	—
302625 2002 RD_1	17.1	X	9.24024	184.26008	162.53225	8.85132	0.1783316	0.22477538	2.6789846	20	11 15.3	20.2
302626 2002 RU_4	16.6	X	321.87013	120.92758	269.01954	10.32200	0.0806980	0.22240420	2.6979924	20	10 8.6	20.0
302627 2002 RT_{26}	16.4	X	23.31531	165.93426	226.45986	8.13566	0.1367766	0.23124030	2.6288171	20	—	—
302628 2002 RB_{31}	16.1	X	9.56681	44.40950	327.18089	11.95191	0.1280912	0.22656944	2.6648238	20	12 8.6	19.5
302629 2002 RL_{36}	16.5	X	84.32785	345.27865	313.64570	8.33274	0.1997967	0.23078218	2.6322948	20	12 15.8	20.9
302630 2002 RB_{42}	16.3	X	40.36102	217.64556	146.04729	10.08797	0.1126043	0.23115437	2.6294685	20	—	—
302631 2002 RZ_{80}	16.4	X	347.99213	227.45334	160.03471	7.77985	0.1995478	0.22424041	2.6832438	20	12 5.1	19.2
302632 2002 RX_{92}	16.5	X	12.97182	13.71593	359.17591	4.62448	0.1944755	0.22551944	2.6730888	20	12 26.3	19.8
302633 2002 RQ_{93}	16.5	X	21.85936	14.64438	326.43953	11.22402	0.1936297	0.22446125	2.6814835	20	11 24.2	20.1
302634 2002 RN_{127}	16.5	X	79.30195	85.27308	226.56881	10.59709	0.2015252	0.23194259	2.6235080	20	12 26.1	20.9
302635 2002 RW_{127}	16.2	X	145.43555	43.41152	231.09093	10.95613	0.1552905	0.23724478	2.5842723	20	—	—
302636 2002 RD_{134}	16.4	X	355.07159	299.22375	65.68227	9.69235	0.1205147	0.22302973	2.6929454	20	11 7.5	19.4
302637 2002 RS_{134}	16.1	X	345.56622	259.54903	137.11389	15.20412	0.1249547	0.22498958	2.6772840	20	12 7.2	19.4
302638 2002 RA_{142}	16.4	X	349.91425	141.98837	295.19196	4.60442	0.0713796	0.23301654	2.6154407	20	—	—
302639 2002 RD_{142}	16.5	X	78.74579	69.18231	266.76485	3.63797	0.1217533	0.23285351	2.6166614	20	—	—
302640 2002 RX_{157}	16.6	X	354.67907	192.56357	187.29995	3.73175	0.1512106	0.22477051	2.6790233	20	11 30.1	19.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
302641 2002 RU_{158}	17.5	X	355.35125	83.02350	335.35517	3.86738	0.1740237	0.22914869	2.6447896	20	—	—
302642 2002 RS_{183}	15.8	X	100.17616	76.86041	237.63854	12.36156	0.1896128	0.23311390	2.6147124	20	—	—
302643 2002 RL_{191}	16.7	X	343.31466	86.96574	290.13480	11.10306	0.2539948	0.22207971	2.7006199	20	11 10.2	19.2
302644 2002 RJ_{192}	17.8	X	329.73903	287.43430	116.21343	2.45692	0.2715475	0.22301698	2.6930480	20	11 22.1	19.6
302645 2002 RK_{211}	16.2	X	0.57870	40.96906	10.46024	15.13843	0.1489025	0.22970177	2.6405424	20	—	—
302646 2002 RY_{216}	15.6	X	320.42591	99.38161	338.68692	21.76756	0.0400674	0.23071192	2.6328293	20	12 17.6	19.4
302647 2002 RY_{227}	15.8	X	325.27703	72.00349	10.30187	22.12116	0.0526931	0.23175101	2.6249536	20	—	—
302648 2002 RG_{236}	16.6	X	321.97536	112.58168	16.64204	4.63032	0.1084212	0.23726520	2.5841240	20	—	—
302649 2002 RX_{237}	16.7	X	29.37789	251.71988	149.24913	4.93966	0.0828080	0.23495978	2.6010001	20	—	—
302650 2002 RX_{239}	17.0	X	126.83507	140.89765	134.84655	3.73375	0.0844414	0.23376686	2.6098412	20	12 23.3	20.9
302651 2002 RP_{240}	17.2	X	22.19972	109.04892	265.40890	2.88918	0.1112862	0.22978592	2.6398977	20	12 29.5	20.4
302652 Hauke	15.9	X	136.32508	128.51469	108.40038	14.02067	0.0787999	0.22599128	2.6693669	20	11 18.5	20.1
302653 2002 RE_{244}	16.8	X	5.04792	104.14820	277.12545	3.57297	0.0959466	0.22907104	2.6453873	20	12 11.8	20.0
302654 2002 RF_{246}	16.7	X	65.93822	202.46592	139.04244	5.28389	0.1546936	0.23295950	2.6158676	20	—	—
302655 2002 RG_{248}	17.2	X	63.18216	332.35289	348.78594	4.09482	0.1193475	0.22959628	2.6413512	20	12 13.3	21.0
302656 2002 RX_{250}	16.8	X	99.58548	300.79178	15.50689	6.50539	0.1232329	0.23468613	2.6030215	20	—	—
302657 2002 RX_{251}	16.7	X	320.76406	127.33257	292.65062	1.51333	0.0420084	0.22652289	2.6651888	20	11 22.4	20.0
302658 2002 RF_{267}	17.1	X	357.20494	153.49979	214.06486	1.49037	0.0945482	0.22321266	2.6914739	20	11 10.2	20.2
302659 2002 RJ_{267}	17.2	X	356.57756	226.86255	200.71412	4.55201	0.0819071	0.23107696	2.6300557	20	—	—
302660 2002 RL_{277}	16.4	X	339.98782	326.11972	331.54054	12.73512	0.1508558	0.21390132	2.7690262	20	7 3.4	19.5
302661 2002 SH_{3}	16.6	X	87.92328	42.73431	278.29296	9.42777	0.1020568	0.23358428	2.6112010	20	—	—
302662 2002 SW_{4}	16.5	X	325.83831	243.34112	184.66556	9.32084	0.2501828	0.22371312	2.6874584	20	12 18.6	18.8
302663 2002 SP_{7}	16.2	X	11.41461	6.98539	8.76907	6.16848	0.0392395	0.22555377	2.6728176	20	12 4.3	19.8
302664 2002 SJ_{12}	16.2	X	65.06342	246.00459	26.80035	12.21451	0.0685448	0.21901090	2.7257890	20	10 8.8	19.8
302665 2002 SK_{17}	16.4	X	263.08663	326.20075	189.74955	12.86284	0.1086576	0.22984472	2.6394475	20	12 28.3	19.9
302666 2002 SC_{33}	15.9	X	336.64673	359.14064	6.96700	9.42461	0.1546878	0.21870313	2.7283456	20	10 4.8	18.7
302667 2002 SW_{38}	16.7	X	354.74399	319.12182	66.90401	2.35753	0.1987475	0.22415294	2.6839418	20	12 14.2	19.5
302668 2002 SC_{42}	16.7	X	9.13891	165.87497	190.63469	4.43032	0.0969261	0.22250418	2.6971841	20	11 14.6	20.0
302669 2002 SC_{48}	15.8	X	339.24217	243.34834	186.01821	21.65106	0.0597265	0.22859814	2.6490343	20	12 31.3	19.6
302670 2002 SQ_{48}	15.8	X	105.72820	256.55326	32.54254	15.04384	0.1037559	0.22854550	2.6494411	20	12 15.7	20.1
302671 2002 SJ_{58}	15.9	X	0.22779	304.26957	49.85293	13.37027	0.1239567	0.22020230	2.7159482	20	10 31.9	18.9
302672 2002 SZ_{61}	16.1	X	315.56264	18.14937	306.79001	5.17678	0.0425695	0.21135149	2.7912528	20	7 7.7	19.7
302673 2002 SQ_{67}	16.2	X	343.51821	356.72021	16.34272	11.91294	0.1355669	0.22410404	2.6843322	20	10 26.8	19.2
302674 2002 SR_{68}	17.0	X	340.07881	30.94898	359.74982	5.98856	0.0535859	0.22380217	2.6867455	20	11 9.8	20.3
302675 2002 SK_{69}	15.9	X	104.70722	214.54912	72.25334	10.09460	0.1084084	0.23009281	2.6375499	20	12 13.9	19.9
302676 2002 SM_{71}	16.2	X	248.59299	121.81309	9.23831	14.13550	0.0594324	0.22398855	2.6852549	20	11 7.5	19.9
302677 2002 SH_{74}	16.9	X	336.14247	231.87756	152.21623	13.43899	0.1702158	0.22043010	2.7140767	20	11 5.6	19.9
302678 2002 SO_{74}	17.1	X	343.01561	8.90698	18.87009	4.92216	0.0372744	0.22349527	2.6892044	20	11 10.2	20.5
302679 2002 TN_{9}	15.9	X	42.95139	298.13960	31.57723	7.34058	0.2343201	0.22542097	2.6738672	20	12 14.8	19.8
302680 2002 TZ_{13}	16.0	X	314.39011	291.07017	44.57556	8.87703	0.1251226	0.21093245	2.7949483	20	7 12.3	19.4
302681 2002 TJ_{32}	16.3	X	300.46274	24.92268	19.64843	13.75182	0.1750237	0.21590962	2.7518287	20	9 21.5	19.3
302682 2002 TS_{32}	16.0	X	344.57628	17.55814	28.79925	16.36016	0.2529858	0.22291939	2.6938340	20	12 31.2	18.9
302683 2002 TC_{44}	16.4	X	331.77458	167.09140	200.91192	12.30910	0.1891761	0.21677442	2.7445050	20	9 25.7	19.1
302684 2002 TK_{54}	16.8	X	8.46283	336.92864	26.35346	4.40558	0.2425313	0.22240990	2.6979464	20	12 12.7	19.8
302685 2002 TA_{57}	16.3	X	36.39787	303.75972	47.63822	4.45984	0.1099838	0.22785601	2.6547832	20	12 17.8	19.7
302686 2002 TJ_{61}	16.1	X	352.75384	180.01585	224.49856	12.38331	0.1509625	0.22628325	2.6670702	20	12 28.5	19.3
302687 2002 TZ_{61}	15.4	X	329.69219	189.14451	218.03721	14.86537	0.1695295	0.22273127	2.6953506	20	11 22.3	18.1
302688 2002 TB_{67}	16.0	X	104.20761	64.82351	239.57525	15.48895	0.2557831	0.23452473	2.6042157	20	—	—
302689 2002 TE_{70}	16.1	X	33.85443	142.95482	222.50258	13.10639	0.1213020	0.22733997	2.6587990	20	—	—
302690 2002 TE_{75}	16.4	X	29.13541	264.70967	60.06608	8.54299	0.2341436	0.22381675	2.6866287	20	11 22.2	19.7
302691 2002 TN_{76}	16.1	X	17.21819	351.80097	1.13486	12.37258	0.0877138	0.22261812	2.6962637	20	11 15.2	19.8
302692 2002 TS_{81}	16.1	X	23.20650	223.13213	132.86918	8.13815	0.1777319	0.22565770	2.6719969	20	12 16.8	19.6
302693 2002 TH_{105}	16.2	X	55.03379	97.78345	211.77470	11.75052	0.2670574	0.22761169	2.6566826	20	12 7.9	20.4
302694 2002 TS_{107}	16.6	X	313.12237	258.79134	201.60896	6.38242	0.0735126	0.22785614	2.6547822	20	—	—
302695 2002 TX_{115}	16.0	X	50.71267	10.97473	306.66302	7.92261	0.1865382	0.22492938	2.6777617	20	12 1.9	19.9
302696 2002 TJ_{116}	16.0	X	47.56903	357.10502	342.14570	12.31437	0.1171942	0.22613380	2.6682451	20	12 16.8	20.0
302697 2002 TT_{118}	16.2	X	78.03475	85.85948	220.07705	16.32954	0.1411370	0.22663989	2.6642715	20	12 12.1	20.4
302698 2002 TZ_{121}	16.7	X	14.09493	108.07852	254.11964	6.34729	0.2550446	0.22359183	2.6884302	20	12 22.6	19.9
302699 2002 TY_{146}	16.5	X	311.37717	16.91521	3.90997	6.79808	0.0781209	0.21681461	2.7441658	20	9 14.4	19.8
302700 2002 TU_{150}	17.9	X	320.63639	167.51340	249.34025	2.54484	0.2273916	0.22184809	2.7024993	20	11 15.7	20.2
302701 2002 TW_{159}	16.1	X	317.39208	291.99345	141.99550	14.29512	0.2037162	0.22225495	2.6992001	20	12 7.6	18.9
302702 2002 TO_{166}	16.5	X	16.38357	4.47827	1.20788	12.94606	0.2734595	0.22644672	2.6657865	20	—	—
302703 2002 TH_{167}	16.2	X	20.20576	93.81030	264.13145	11.54025	0.1931384	0.22546863	2.6734904	20	12 16.8	19.6
302704 2002 TX_{171}	16.3	X	349.99404	130.38263	273.85311	10.00014	0.1764368	0.22636073	2.6664615	20	12 28.4	18.9
302705 2002 TN_{175}	15.8	X	95.10794	5.01126	279.50766	12.42521	0.1476101	0.22865270	2.6486129	20	12 4.1	20.0
302706 2002 TA_{177}	15.7	X	356.28357	296.24361	83.59643	13.15205	0.2838549	0.22222388	2.6994517	20	12 21.1	18.2
302707 2002 TP_{181}	16.0	X	338.99914	76.68678	280.77738	7.24031	0.1736409	0.21847327	2.7302590	20	9 23.1	18.8
302708 2002 TM_{192}	16.2	X	18.32776	88.88501	261.90795	11.10742	0.2853871	0.22293609	2.6936994	20	12 18.6	19.3
302709 2002 TR_{208}	16.2	X	14.08975	275.52502	73.63606	8.64695	0.2401305	0.22352920	2.6889323	20	12 3.3	19.3
302710 2002 TO_{209}	16.1	X	272.69068	344.68983	17.71136	9.63985	0.1648489	0.20940971	2.8084811	20	6 7.2	20.2
302711 2002 TP_{221}	16.1	X	42.08034	138.16327	213.77126	10.87846	0.1215382	0.22644248	2.6658198	20	12 26.0	20.0
302712 2002 TT_{230}	15.8	X	62.33214	277.68057	51.95461	16.66385	0.2619572	0.23046701	2.6346941	20	—	—
302713 2002 TQ_{233}	16.0	X	12.63050	48.29925	311.42385	10.89001	0.1758882	0.22333739	2.6904717	20	12 3.7	19.4
302714 2002 TS_{235}	16.3	X	344.14113	113.62571	269.60148	12.35484	0.2136794	0.22110332	2.7085647	20	11 18.6	18.9
302715 2002 TA_{249}	16.2	X	321.94305	147.71947	187.31071	4.90512	0.1675438	0.21255243	2.7807290	20	7 17.8	19.3
302716 2002 TH_{257}	16.2	X	324.11957	331.04724	38.93469	13.29533	0.2170308	0.21582131	2.7525793	20	9 18.9	18.9
302717 2002 TE_{276}	15.8	X	79.87969	47.38915	257.48566	3.37032	0.2035188	0.22735820	2.6586569	20	12 18.6	19.9
302718 2002 TS_{277}	15.9	X	51.69230	77.47608	261.65356	5.21867	0.0600334	0.22582774	2.6706554	20	12 13.9	19.5
302719 2002 TL_{284}	15.6	X	338.86062	139.97507	243.80443	12.46054	0.1325766	0.21888192	2.7268597	20	11 1.5	18.6
302720 2002 TC_{294}	16.6	X	341.69201	26.32978	25.62716	6.80289	0.1372251	0.22447187	2.6813989	20	12 18.8	19.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
302721 2002 TV_{294}	16.4	X	331.80410	52.78139	353.16184	10.27160	0.2151142	0.22073238	2.7115983	20	11 22.2	19.0
302722 2002 TB_{298}	16.4	X	45.94465	124.69089	219.45734	4.44142	0.1607001	0.22780156	2.6552062	20	12 27.2	20.1
302723 2002 TH_{300}	16.5	X	308.72867	54.31985	51.97591	10.48726	0.2608687	0.22480780	2.6787271	20	—	—
302724 2002 TJ_{311}	16.6	X	52.47558	137.14134	146.81044	9.59853	0.1044546	0.21813617	2.7330711	20	10 13.9	20.3
302725 2002 TN_{311}	16.3	X	176.99672	135.97851	62.93359	12.40068	0.1177431	0.22215553	2.7000053	20	11 9.1	20.4
302726 2002 TT_{314}	16.1	X	214.67367	78.96178	76.11737	14.19165	0.0958375	0.21888801	2.7268091	20	10 30.9	20.2
302727 2002 TG_{317}	16.9	X	269.03914	158.31374	304.71383	8.61814	0.2259702	0.22328258	2.6909120	20	10 4.1	20.5
302728 2002 TP_{323}	16.8	X	319.82369	4.02010	4.93526	5.57623	0.0552747	0.21765077	2.7371331	20	9 12.9	20.1
302729 2002 TT_{328}	17.1	X	121.78340	246.83527	29.52700	5.11576	0.1522976	0.23071090	2.6328370	20	12 19.3	21.3
302730 2002 TY_{345}	16.7	X	62.23519	211.30411	106.49314	6.56385	0.0553175	0.22401493	2.6850440	20	11 30.0	20.4
302731 2002 TC_{370}	16.4	X	70.88678	145.68523	151.26646	10.83559	0.2707223	0.22471925	2.6794307	20	12 8.3	20.9
302732 2002 TN_{375}	16.2	X	32.00482	182.98376	155.06427	6.55338	0.0822999	0.22405897	2.6846922	20	11 21.9	19.8
302733 2002 TO_{378}	16.5	X	349.53365	128.21358	279.00629	4.02405	0.0380170	0.22365394	2.6879325	20	12 15.5	20.0
302734 2002 TP_{379}	16.9	X	85.16198	104.92456	191.31171	5.62726	0.1360314	0.22756739	2.6570274	20	12 8.2	20.9
302735 2002 TC_{382}	16.5	X	312.33845	341.05557	14.31687	5.28316	0.1754762	0.21269114	2.7795199	20	7 31.5	19.5
302736 2002 TY_{382}	16.8	X	344.40895	139.17367	213.40957	4.45222	0.1004067	0.21587267	2.7521426	20	9 27.1	20.1
302737 2002 TC_{387}	16.8	X	343.62287	190.45437	187.87290	14.83041	0.1902921	0.21978022	2.7194243	20	11 11.5	19.6
302738 2002 UV_{3}	16.9	X	22.75871	280.94782	58.23686	9.22021	0.3474266	0.22348183	2.6893123	20	12 18.7	20.4
302739 2002 UC_{9}	16.8	X	324.43532	275.87865	120.77882	10.12197	0.3281052	0.21784159	2.7355344	20	10 27.2	18.6
302740 2002 UB_{16}	16.4	X	266.35230	14.14320	90.62923	5.23012	0.2430501	0.21700155	2.7425896	20	10 6.5	20.0
302741 2002 UP_{18}	15.9	X	53.24805	279.37165	55.56643	9.60533	0.1378382	0.22531134	2.6747346	20	12 20.3	19.7
302742 2002 UH_{27}	16.1	X	306.29191	61.72010	37.52290	12.28992	0.0840222	0.22434008	2.6824490	20	12 20.8	19.4
302743 2002 UE_{28}	16.1	X	6.52219	315.21489	65.32576	10.51001	0.1263140	0.22322061	2.6914100	20	12 14.9	19.4
302744 2002 UK_{34}	16.7	X	299.58116	250.40520	199.58080	7.50437	0.2655519	0.21968548	2.7202061	20	11 11.1	18.9
302745 2002 UM_{37}	16.6	X	21.73608	93.73148	255.07879	2.02555	0.2274662	0.22268629	2.6957135	20	12 11.7	19.9
302746 2002 UW_{41}	16.8	X	256.42172	18.62935	73.89679	9.08387	0.1974587	0.21232895	2.7826798	20	9 15.9	20.8
302747 2002 UW_{55}	16.9	X	343.30688	245.45105	113.26871	6.88854	0.0575783	0.21740625	2.7391850	20	10 7.4	20.4
302748 2002 UG_{64}	17.3	X	326.53273	178.95156	198.71850	4.57900	0.1232311	0.21936934	2.7228189	20	10 2.5	20.2
302749 2002 UJ_{67}	16.6	X	92.24520	190.18272	113.69580	3.49599	0.0799860	0.22782430	2.6550295	20	12 19.8	20.4
302750 2002 UY_{75}	16.8	X	22.82828	27.41813	287.81170	2.43760	0.1915014	0.21810384	2.7333412	20	10 22.1	20.0
302751 2002 VJ_{8}	16.3	X	315.87952	57.92920	352.08895	8.17382	0.1458162	0.21875275	2.7279330	20	10 24.7	19.3
302752 2002 VW_{14}	16.4	X	268.85058	108.76695	4.65308	8.59542	0.1324685	0.22021311	2.7158593	20	11 2.9	19.9
302753 2002 VQ_{19}	16.5	X	313.57431	2.04347	53.19201	5.15653	0.0611897	0.21895201	2.7262777	20	11 4.3	19.9
302754 2002 VN_{22}	16.8	X	285.44605	344.00017	91.38521	9.97076	0.3081516	0.21558991	2.7545485	20	9 17.3	20.1
302755 2002 VM_{25}	16.0	X	1.26210	252.31380	82.68460	14.95881	0.2187399	0.21723888	2.7405918	20	10 24.3	19.0
302756 2002 VX_{28}	15.9	X	282.67283	207.37563	233.93768	12.81657	0.1278345	0.21660575	2.7459296	20	10 11.7	19.4
302757 2002 VN_{39}	16.3	X	336.58483	305.50355	80.00683	13.98759	0.1707324	0.21828927	2.7317930	20	11 7.9	19.2
302758 2002 VB_{43}	16.2	X	1.00225	260.83648	58.52106	14.14534	0.1932451	0.21472485	2.7619418	20	9 27.7	19.3
302759 2002 VH_{53}	15.7	X	358.00814	130.05522	255.65554	13.07055	0.1021279	0.22176889	2.7031427	20	12 5.9	19.0
302760 2002 VO_{63}	15.8	X	294.24404	186.58200	249.19895	9.33768	0.2349401	0.21664730	2.7455785	20	10 7.6	18.9
302761 2002 VT_{79}	16.3	X	308.99458	206.95130	215.74883	9.36001	0.1758056	0.21734714	2.7396816	20	10 30.3	18.8
302762 2002 VO_{96}	15.9	X	350.97381	134.19634	255.10031	10.04119	0.1270128	0.22156013	2.7048404	20	12 2.1	18.9
302763 2002 VT_{97}	16.6	X	249.53972	222.11753	245.15667	9.16154	0.2747114	0.21232390	2.7827239	20	9 6.4	21.0
302764 2002 VS_{99}	14.8	X	299.67592	79.30037	359.25870	22.23177	0.3128996	0.21545729	2.7556787	20	10 7.5	17.5
302765 2002 VA_{103}	16.2	X	318.01389	6.07168	29.30085	9.34137	0.1759499	0.21641434	2.7475485	20	10 10.3	18.8
302766 2002 VX_{104}	15.6	X	297.31457	201.27324	252.93181	13.62017	0.1510581	0.21929205	2.7234587	20	11 23.7	18.6
302767 2002 VV_{107}	16.2	X	358.51927	334.44124	36.56103	9.32861	0.1764437	0.21902332	2.7256859	20	11 23.9	19.2
302768 2002 VO_{113}	16.4	X	342.59851	297.30913	70.34296	6.15563	0.3135244	0.21790012	2.7350445	20	11 4.0	18.1
302769 2002 VR_{122}	16.1	X	5.79583	334.05917	26.26294	13.54937	0.1892788	0.21970120	2.7200764	20	11 22.1	19.3
302770 2002 VR_{123}	15.9	X	1.95966	106.93762	259.03911	16.03206	0.2020609	0.22102911	2.7091709	20	11 28.8	18.8
302771 2002 VT_{132}	16.2	X	84.72247	51.49877	255.14733	10.71224	0.2080196	0.22757092	2.6569999	20	12 24.8	20.6
302772 2002 VD_{135}	16.6	X	308.82701	121.14476	267.31876	6.94920	0.1714680	0.21450115	2.7638617	20	9 5.7	19.8
302773 2002 VZ_{135}	16.5	X	262.86008	173.40245	261.76360	5.85121	0.1287059	0.21148240	2.7901008	20	9 3.4	20.4
302774 2002 VS_{144}	16.7	X	230.12811	248.48944	214.46128	4.02777	0.0619482	0.21213560	2.7843704	20	9 9.4	20.5
302775 2002 VC_{146}	16.8	X	318.99476	314.10378	124.80472	4.22785	0.0517866	0.22253548	2.6969313	20	12 14.2	20.2
302776 2002 WD_{5}	16.1	X	7.20293	290.27857	57.39109	13.97968	0.1578718	0.21677536	2.7444971	20	11 7.3	19.1
302777 2002 WX_{6}	16.0	X	331.00739	115.50252	279.01105	2.99828	0.1605292	0.21757604	2.7377597	20	11 2.9	18.8
302778 2002 WD_{10}	16.1	X	333.06148	140.46549	237.63427	4.89334	0.0653910	0.21450776	2.7638049	20	10 12.3	19.5
302779 2002 WP_{22}	16.6	X	173.83615	0.86353	109.93056	3.17436	0.0110411	0.20313891	2.8659854	20	7 16.4	20.6
302780 2002 WW_{28}	16.0	X	308.42986	329.61469	72.40785	7.57115	0.0337848	0.21556311	2.7547769	20	10 14.2	19.6
302781 2002 XF_{13}	16.6	X	326.20684	353.27581	55.33831	5.28304	0.1461343	0.21810302	2.7333480	20	11 14.7	19.5
302782 2002 XB_{19}	15.5	X	59.12584	90.26526	249.51153	12.73028	0.1482300	0.22609147	2.6685782	20	—	—
302783 2002 XN_{19}	15.6	X	34.84970	88.92620	257.22057	13.63772	0.1888357	0.22238940	2.6981121	20	12 19.1	19.1
302784 2002 XV_{36}	15.9	X	322.85403	103.41857	287.71173	8.33338	0.0847720	0.21462351	2.7628110	20	10 10.5	19.4
302785 2002 XR_{40}	15.3	X	343.97004	95.95949	319.71975	29.34206	0.4017886	0.21725085	2.7404911	20	—	—
302786 2002 XY_{45}	16.4	X	263.96327	211.96431	266.74711	6.91681	0.2824356	0.21353762	2.7721695	20	10 8.4	20.1
302787 2002 XJ_{46}	16.6	X	345.81558	56.51710	321.68909	4.47937	0.1529875	0.21816011	2.7328711	20	11 7.4	19.5
302788 2002 XA_{61}	16.4	X	306.38896	330.56579	75.10985	8.20765	0.2573253	0.21393459	2.7687391	20	9 24.2	19.1
302789 2002 XK_{61}	16.3	X	330.38399	208.09493	186.18498	4.53046	0.2141543	0.21730543	2.7400322	20	11 4.6	18.7
302790 2002 XP_{81}	16.0	X	289.64052	141.26200	289.42810	8.62908	0.1932677	0.21248980	2.7812754	20	9 25.9	19.5
302791 2002 XX_{81}	16.7	X	209.97759	162.18210	312.11999	7.44054	0.3072178	0.20365766	2.8611166	20	8 12.2	21.7
302792 2002 XX_{87}	15.7	X	355.14408	336.72645	30.08843	12.06191	0.3150520	0.21877752	2.7277271	20	12 1.9	18.3
302793 2002 XM_{98}	15.5	X	18.12062	241.36609	61.83366	19.31547	0.2617474	0.21386514	2.7693385	20	10 18.9	18.9
302794 2002 XR_{102}	15.4	X	109.63420	323.97021	247.58771	14.18734	0.0911334	0.20656526	2.8342046	20	9 5.7	20.0
302795 2002 XT_{107}	15.5	X	331.26281	97.81224	255.27212	12.22300	0.2593264	0.21175171	2.7877347	20	8 21.6	18.1
302796 2002 XK_{115}	16.4	X	274.75745	228.01002	175.48048	8.12631	0.2275672	0.20971975	2.8057125	20	7 25.1	20.3
302797 2002 XR_{118}	16.6	X	326.71949	192.71084	216.75045	4.89830	0.0662192	0.21865660	2.7287326	20	11 16.2	20.0
302798 2002 YU_{18}	16.3	X	264.84204	234.29677	255.78842	7.58513	0.2061663	0.21574363	2.7532399	20	11 8.2	19.6
302799 2002 YM_{32}	16.0	X	343.60634	311.74069	57.56593	12.95171	0.1344046	0.21654564	2.7464377	20	10 25.9	19.1
302800 2003 AA	19.4	X	255.78669	325.77095	111.92719	23.50115	0.2799138	0.43401671	1.7276871	20	9 21.2	21.0

Planet		H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
		m		°	°	°	°		°				
302801	2003 AK_1	16.0	X	16.72889	139.68576	264.03156	12.56984	0.2558250	0.22309754	2.6923997	20	—	—
302802	2003 AG_{18}	16.0	X	81.18907	151.07976	3.80393	10.72597	0.2396559	0.18538518	3.0461600	20	6 16.8	20.6
302803	2003 AY_{18}	15.9	X	238.71818	201.84814	253.39636	4.98159	0.0983236	0.20625757	2.8370226	20	9 3.2	20.0
302804	2003 AL_{64}	15.7	X	197.01667	48.38728	53.14087	13.49417	0.1213187	0.20019734	2.8939911	20	7 30.7	20.4
302805	2003 AF_{73}	15.6	X	187.78096	175.69655	254.25438	8.90178	0.0973936	0.19365256	2.9588337	20	6 8.4	20.2
302806	2003 AH_{83}	16.5	X	272.79938	324.07592	16.43454	10.59611	0.1232424	0.19191195	2.9766975	20	5 14.6	20.8
302807	2003 BE_6	16.3	X	294.43311	110.45608	310.48982	8.26722	0.3131525	0.21061230	2.7977800	20	9 2.4	19.3
302808	2003 BB_{16}	15.7	X	154.82881	320.20607	133.42978	13.76520	0.1245381	0.18867256	3.0106728	20	6 7.4	20.7
302809	2003 BE_{24}	16.2	X	281.38934	246.76114	204.81008	8.33648	0.2904412	0.21168372	2.7883315	20	9 28.3	19.3
302810	2003 BA_{31}	16.5	X	296.84200	119.87816	292.41108	6.28918	0.3074624	0.21000593	2.8031629	20	8 26.7	19.6
302811	2003 BB_{37}	17.6	X	30.49597	228.59531	327.41486	3.06602	0.1218944	0.29441940	2.2378197	20	5 4.2	19.4
302812	2003 BJ_{63}	15.1	X	12.73517	223.11337	327.21219	17.75049	0.2290570	0.17613216	3.1519327	20	3 25.7	18.5
302813	2003 BL_{70}	15.3	X	290.74647	299.24459	328.35223	11.62237	0.1561503	0.17696716	3.1420103	20	3 3.6	19.7
302814	2003 BH_{72}	15.5	X	32.73359	293.74089	256.69959	13.27435	0.2534900	0.18050565	3.1008126	20	5 22.3	18.6
302815	2003 BY_{73}	15.6	X	76.99968	120.89836	69.45618	10.59537	0.0202269	0.19142344	2.9817597	20	6 25.8	19.7
302816	2003 BU_{75}	15.1	X	314.59082	272.27921	341.12813	24.87578	0.2342589	0.17880711	3.1204187	20	3 5.2	19.1
302817	2003 BH_{85}	15.7	X	116.09316	174.48474	310.63997	10.00660	0.0775418	0.18658435	3.0330943	20	5 28.4	20.3
302818	2003 BV_{91}	17.4	X	296.17466	28.28879	254.63783	6.24742	0.2033240	0.29717897	2.2239448	20	3 9.5	20.4
302819	2003 CJ_1	15.2	X	26.08154	218.91019	318.82747	11.89346	0.1819528	0.17704398	3.1411013	20	4 6.3	18.9
302820	2003 CJ_5	15.6	X	17.54417	267.90226	303.14771	18.20617	0.2738109	0.18038325	3.1022151	20	5 14.7	18.9
302821	2003 CC_9	17.5	X	151.47122	86.97089	347.08460	5.98218	0.1226434	0.30069822	2.2065587	20	5 3.1	20.6
302822	2003 CG_{20}	17.3	X	84.99714	128.84332	99.16011	4.14021	0.1242434	0.30949092	2.1645657	20	9 25.1	20.1
302823	2003 DQ_8	17.3	X	198.49844	0.87455	112.29697	3.06096	0.0422429	0.31033302	2.1606482	20	8 30.8	19.7
302824	2003 DZ_8	16.8	X	222.54181	303.40884	150.05257	2.39320	0.0890918	0.19765510	2.9187532	20	8 15.6	21.1
302825	2003 DX_{16}	16.0	X	42.77594	50.53367	104.12096	2.21047	0.1165777	0.17844760	3.1246083	20	4 6.5	19.8
302826	2003 DC_{19}	15.6	X	100.48743	187.24827	329.37845	10.80235	0.0620173	0.18642403	3.0348329	20	6 18.7	20.1
302827	2003 EM_{48}	15.5	X	326.08190	91.12648	156.22625	16.41799	0.1885717	0.17532072	3.1616507	20	3 26.7	19.4
302828	2003 ED_{52}	17.6	X	153.32435	353.04245	121.87296	5.09607	0.0810705	0.30218732	2.1993038	20	7 2.0	20.4
302829	2003 EB_{63}	15.8	X	125.59128	120.92759	41.36833	7.36559	0.1095820	0.18730226	3.0253389	20	8 1.4	20.5
302830	2003 FB	18.8	X	262.47536	46.20482	38.64930	16.96723	0.4422862	0.55119178	1.4732199	20	—	—
302831	2003 FH	19.0	X	121.80142	274.35547	24.14606	25.79738	0.5407177	0.60205991	1.3890235	20	—	—
302832	2003 FK_{13}	15.8	X	72.45514	299.89839	182.43777	16.22629	0.0730209	0.17567209	3.1574334	20	4 2.6	20.0
302833	2003 FP_{18}	17.8	X	255.99963	74.70398	189.84537	2.54046	0.1329863	0.28085836	2.3092865	20	1 14.4	21.1
302834	2003 FG_{41}	17.1	X	115.94656	25.32313	105.15060	5.23342	0.0450009	0.29909093	2.2144568	20	6 2.5	19.6
302835	2003 FY_{44}	16.1	X	226.83984	237.38334	167.36880	15.88043	0.1247373	0.18922496	3.0048106	20	6 16.7	21.0
302836	2003 FF_{54}	16.0	X	20.51668	199.00087	4.81648	2.57768	0.2034142	0.17605707	3.1528289	20	5 9.2	19.4
302837	2003 FM_{54}	16.6	X	350.58142	215.92691	25.55967	7.99855	0.0853530	0.29149364	2.2527690	20	4 28.4	18.8
302838	2003 FB_{55}	15.3	X	12.07703	73.32484	118.13155	9.15450	0.1654808	0.17268861	3.1936961	20	4 9.1	19.0
302839	2003 FQ_{56}	17.4	X	22.12606	62.91997	181.23009	4.55887	0.1092208	0.29934956	2.2131812	20	7 6.3	19.4
302840	2003 FP_{58}	15.9	X	322.16129	37.25587	213.81206	5.29450	0.0588295	0.17652255	3.1472839	20	4 7.8	20.2
302841	2003 FC_{63}	16.0	X	307.82863	114.89223	183.19139	16.98812	0.1226672	0.18001713	3.1064199	20	5 12.6	20.3
302842	2003 FQ_{66}	16.9	X	261.30586	226.67622	60.14265	6.02397	0.1617460	0.28390155	2.2927544	20	2 17.6	20.3
302843	2003 FW_{85}	17.0	X	237.87583	34.83389	203.96040	23.76631	0.2393772	0.27147683	2.3621866	20	—	—
302844	2003 FV_{92}	15.3	X	75.96238	164.65363	44.87479	12.76253	0.1162742	0.18625440	3.0366753	20	8 7.8	19.8
302845	2003 FO_{100}	15.8	X	43.83157	86.25857	127.36320	7.63310	0.0477922	0.18285078	3.0742428	20	6 15.9	20.0
302846	2003 FF_{106}	17.1	X	17.18033	69.50262	132.11440	4.65900	0.1441961	0.29087557	2.2559591	20	4 20.5	18.9
302847	2003 FV_{113}	15.8	X	48.27819	357.85666	194.59782	16.46806	0.1611212	0.18047708	3.1011398	20	6 9.4	20.0
302848	2003 FW_{118}	17.7	X	160.12248	91.88706	40.00768	3.90562	0.0976190	0.30402837	2.1904162	20	8 5.6	20.7
302849	Richardboyle	15.3	X	68.96777	118.51067	13.56436	25.60816	0.1137946	0.17578033	3.1561372	20	4 11.2	19.5
302850	2003 FY_{126}	18.1	X	186.97738	119.70012	349.54106	3.02412	0.1200339	0.30797275	2.1716734	20	8 3.3	21.0
302851	2003 FN_{132}	15.8	X	327.48549	250.11757	22.07014	15.21987	0.1088067	0.17890421	3.1192894	20	5 3.9	19.8
302852	2003 GR_2	17.2	X	34.98335	224.63500	356.33064	3.41990	0.1047530	0.29766971	2.2214998	20	6 22.9	19.2
302853	2003 GZ_{10}	17.4	X	121.19829	152.95046	357.15566	4.73226	0.0568366	0.30012754	2.2093549	20	7 10.9	20.1
302854	2003 GZ_{18}	18.5	X	76.33322	160.39460	8.00086	1.91305	0.1143110	0.29618692	2.2289079	20	6 12.1	20.8
302855	2003 GX_{27}	16.0	X	306.00524	82.20677	195.46589	16.01339	0.1223021	0.17610023	3.1523137	20	4 11.9	20.1
302856	2003 GF_{31}	15.4	X	115.45707	138.36585	17.78499	21.42178	0.0496230	0.18477215	3.0528939	20	7 7.3	20.2
302857	2003 GM_{35}	16.1	X	134.22109	136.80740	38.58393	10.99460	0.1589379	0.19247103	2.9709303	20	9 1.5	21.0
302858	2003 GN_{36}	16.6	X	342.48237	317.54406	310.27593	0.85391	0.0732759	0.17962092	3.1109863	20	5 27.9	20.6
302859	2003 GY_{37}	15.6	X	346.98777	220.12393	48.07481	8.77217	0.2036908	0.17904712	3.1176294	20	5 27.8	18.9
302860	2003 GJ_{38}	14.9	X	346.54474	183.79678	55.25249	29.19066	0.1376184	0.17558641	3.1584605	20	4 30.2	18.9
302861	2003 GA_{39}	18.0	X	100.89894	14.10029	126.77409	5.50000	0.1285210	0.29677575	2.2259587	20	6 9.4	20.9
302862	2003 GY_{44}	17.5	X	332.70077	249.36698	346.22938	5.48561	0.1226847	0.28777094	2.2721557	20	3 14.1	19.6
302863	2003 GN_{46}	15.6	X	9.10557	53.03283	152.00815	10.69322	0.0472349	0.17561768	3.1580856	20	4 19.8	19.9
302864	2003 GJ_{54}	15.5	X	128.66788	112.14608	351.84826	9.69697	0.0647484	0.18211002	3.0825738	20	5 13.1	20.1
302865	2003 GN_{56}	17.5	X	262.14385	247.01661	33.37282	5.50773	0.2024755	0.28093808	2.3088496	20	2 6.7	21.1
302866	2003 GU_{56}	16.1	X	79.82552	91.08703	45.92980	9.98290	0.0493967	0.17822841	3.1271695	20	4 27.1	20.4
302867	2003 HJ_4	17.6	X	250.54933	265.32303	4.20838	2.22100	0.1840494	0.27745488	2.3281331	20	1 13.7	21.1
302868	2003 HW_7	16.2	X	148.63270	245.18760	35.79480	8.08439	0.1128410	0.26284258	2.4136386	20	—	—
302869	2003 HT_{11}	15.3	X	349.88921	185.88664	48.33160	9.53741	0.1563867	0.17530614	3.1618259	20	4 22.1	18.8
302870	2003 HF_{16}	17.5	X	283.09038	149.41081	105.34270	6.20597	0.1790206	0.27959044	2.3162628	20	1 26.7	20.7
302871	2003 HA_{22}	19.4	X	203.38523	163.46614	121.79853	1.60858	0.3947856	0.38345791	1.8763949	20	—	—
302872	2003 HY_{24}	16.2	X	203.89263	4.34807	77.56320	1.75638	0.0426431	0.18577093	3.0419416	20	7 13.9	20.5
302873	2003 HH_{35}	17.9	X	356.25092	73.61756	149.17208	4.69208	0.0956272	0.28932109	2.2640325	20	4 12.3	19.9
302874	2003 HM_{37}	16.9	X	203.74039	77.75739	227.70285	21.57361	0.2988159	0.27069244	2.3667477	20	1 13.8	21.6
302875	2003 HP_{47}	17.4	X	327.38873	77.30246	186.72708	3.58561	0.1604747	0.28863577	2.2676148	20	4 12.0	19.2
302876	2003 HP_{49}	17.3	X	199.57958	109.46290	198.11216	6.43134	0.1331548	0.27481726	2.3430059	20	1 13.2	20.9
302877	2003 HG_{51}	15.6	X	318.22675	166.62099	93.77879	7.71318	0.1193602	0.17270066	3.1935476	20	4 11.4	19.8
302878	2003 HU_{58}	15.5	X	320.55417	219.40670	31.51483	17.27192	0.1134527	0.17296434	3.1903010	20	4 3.8	19.7
302879	2003 JN_6	16.7	X	50.38687	147.28691	63.14054	7.86196	0.1694789	0.29451536	2.2373336	20	7 16.6	19.0
302880	2003 JY_{16}	16.7	X	15.18008	130.98455	100.67113	7.48417	0.1549984	0.29255694	2.2473072	20	6 5.9	18.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
302881 2003 JH_{17}	16.8	X	349.58465	133.55854	88.27383	6.41050	0.1113137	0.28589010	2.2821103	20	3 30.2	19.1
302882 2003 LZ	17.2	X	245.96685	156.35989	129.95716	8.08539	0.1489020	0.27747730	2.3280077	20	1 31.7	20.8
302883 2003 LL_{1}	15.7	X	57.92157	62.72656	125.53078	9.48583	0.2446437	0.17826962	3.1266876	20	7 1.3	19.8
302884 2003 MH	17.0	X	292.39393	184.71751	64.04621	3.14322	0.1850925	0.27868928	2.3212533	20	1 28.9	20.2
302885 2003 NC_{2}	16.9	X	201.89809	68.21872	239.03923	8.81698	0.2173729	0.26711305	2.3878441	20	1 17.1	21.0
302886 2003 NS_{3}	16.6	X	135.31390	48.46225	289.36236	5.77515	0.1787366	0.25859247	2.4400129	20	—	—
302887 2003 NN_{4}	16.9	X	168.92095	21.10726	300.48414	5.81972	0.1836990	0.26232242	2.4168282	20	1 7.7	20.6
302888 2003 NY_{12}	17.0	X	220.68416	359.10190	300.97570	4.74117	0.1687601	0.26845588	2.3798748	20	1 25.7	20.7
302889 2003 NE_{13}	17.7	X	161.82709	205.19433	121.55880	2.66441	0.2144052	0.26206435	2.4184146	20	1 9.6	21.5
302890 2003 OE_{6}	16.9	X	147.79249	105.22105	242.23714	5.71084	0.1196452	0.26156474	2.4214932	20	1 10.7	20.4
302891 2003 OA_{11}	16.7	X	119.62884	107.17129	228.61937	15.05082	0.2812071	0.25493439	2.4632988	20	—	—
302892 2003 OF_{27}	17.6	X	199.11952	344.86297	285.07612	2.47436	0.2212622	0.26200522	2.4187784	20	—	—
302893 2003 PK	17.2	X	191.72414	211.77385	167.95218	25.58251	0.0764378	0.39222673	1.8483233	20	4 1.1	19.4
302894 2003 QM	16.9	X	116.59527	62.96030	313.88007	4.17698	0.1851415	0.25968100	2.4331895	20	1 21.9	20.1
302895 2003 QD_{5}	17.3	X	140.74935	126.07007	207.72424	1.58421	0.2005684	0.25810090	2.4431101	20	—	—
302896 2003 QA_{7}	17.9	X	152.51080	70.90697	248.72049	0.61173	0.1970385	0.25810595	2.4430782	20	—	—
302897 2003 QW_{7}	17.3	X	104.32563	17.22718	347.35940	0.75902	0.2082275	0.25513933	2.4619796	20	—	—
302898 2003 QU_{10}	18.8	X	65.75965	13.34226	349.57857	1.26513	0.4117980	0.24743517	2.5128222	20	—	—
302899 2003 QV_{18}	17.3	X	58.04283	346.35133	344.03718	3.83215	0.2371303	0.24432303	2.5341158	20	—	—
302900 2003 QD_{37}	17.2	X	85.12209	46.01831	353.40861	5.83559	0.2065180	0.25645207	2.4535707	20	1 11.5	19.8
302901 2003 QG_{50}	16.9	X	95.80742	330.53634	46.77998	4.38652	0.2379004	0.25427412	2.4675612	20	1 3.1	19.5
302902 2003 QF_{105}	16.5	X	112.26144	359.03521	24.44917	3.92594	0.1580326	0.25760968	2.4462148	20	1 22.2	19.5
302903 2003 QY_{112}	15.8	X	7.29922	235.18183	142.04868	28.56237	0.2157709	0.23830966	2.5765680	20	—	—
302904 2003 RE	16.1	X	119.28890	71.27842	290.27406	13.44059	0.1388787	0.25691943	2.4505943	20	—	—
302905 2003 SQ_{29}	17.1	X	127.99991	72.59247	279.88563	4.30513	0.1762810	0.25580651	2.4576969	20	1 3.5	20.2
302906 2003 ST_{29}	16.1	X	80.85765	13.09842	16.10909	5.21239	0.1072754	0.25179913	2.4837044	20	—	—
302907 2003 SR_{34}	17.4	X	94.29989	118.97677	254.96133	2.02518	0.1920644	0.25428340	2.4675012	20	—	—
302908 2003 SZ_{39}	16.5	X	41.30450	0.59584	355.15864	17.17288	0.1671208	0.24159269	2.5531727	20	—	—
302909 2003 SW_{42}	16.9	X	197.69363	53.20926	264.12259	5.74279	0.1284882	0.26440140	2.4041426	20	1 24.6	20.5
302910 2003 SC_{48}	14.0	X	34.03359	107.32880	276.56158	8.99458	0.2682275	0.12582200	3.9442551	20	—	—
302911 2003 SS_{51}	16.9	X	131.00675	296.84812	56.18527	5.25309	0.1924832	0.25627556	2.4546972	20	1 10.4	20.3
302912 2003 ST_{51}	16.8	X	181.64165	228.97944	83.81011	4.60820	0.1262894	0.25882079	2.4385778	20	1 5.3	20.3
302913 2003 SE_{57}	17.4	X	146.72702	123.63255	211.76033	1.76366	0.2218874	0.25802633	2.4435808	20	1 7.1	21.0
302914 2003 SS_{61}	17.0	X	96.05599	312.63501	83.71618	3.59169	0.1995553	0.25680251	2.4513381	20	1 22.9	19.7
302915 2003 SZ_{77}	14.9	X	26.36864	72.38276	306.73245	7.27547	0.1993064	0.12488097	3.9640448	20	12 24.1	20.1
302916 2003 SX_{94}	17.1	X	99.98275	91.35181	267.68395	4.54040	0.1194343	0.25260542	2.4784164	20	—	—
302917 2003 SC_{102}	17.9	X	79.77542	243.61635	193.81127	22.28052	0.1516041	0.37776017	1.8952155	20	1 11.9	19.8
302918 2003 SM_{122}	16.2	X	36.59405	77.38753	229.39269	12.12050	0.1093566	0.23698275	2.5861769	20	10 21.8	19.5
302919 2003 SA_{130}	17.6	X	129.34159	23.81986	319.32191	20.42324	0.0732862	0.37434922	1.9067105	20	—	—
302920 2003 SX_{157}	17.0	X	100.98068	172.34096	213.18354	5.44300	0.1547907	0.25502709	2.4627019	20	1 7.2	19.9
302921 2003 SK_{168}	16.8	X	90.76634	260.86950	119.59818	9.82047	0.2256807	0.25433459	2.4671701	20	—	—
302922 2003 SN_{178}	15.6	X	49.05082	272.68301	98.59269	4.42192	0.2520258	0.12674343	3.9251153	20	—	—
302923 2003 SG_{195}	17.9	X	110.20752	67.94825	281.26075	2.71443	0.2600639	0.25203603	2.4821477	20	—	—
302924 2003 SA_{211}	16.5	X	95.91424	167.56153	243.31203	5.50441	0.0882870	0.26110969	2.4243057	20	1 21.9	19.5
302925 2003 SW_{216}	15.5	X	38.42467	230.00400	203.15828	10.06150	0.0541616	0.19289806	2.9665441	20	—	—
302926 2003 SF_{222}	17.2	X	149.73988	249.79501	165.84321	0.63937	0.1909936	0.26478950	2.4017928	20	4 15.8	20.9
302927 2003 SJ_{228}	17.1	X	20.75143	298.85132	45.61765	5.79782	0.2674918	0.23644559	2.5900923	20	12 14.2	20.3
302928 2003 SE_{245}	17.3	X	112.81437	352.50512	15.26319	2.67751	0.1962558	0.25548261	2.4597737	20	1 7.8	20.3
302929 2003 SY_{256}	15.3	X	27.48733	148.16176	240.13661	1.81845	0.2618904	0.12602412	3.9400368	20	—	—
302930 2003 SB_{267}	17.9	X	8.68905	231.65584	174.90027	5.21396	0.2462270	0.24157910	2.5532684	20	—	—
302931 2003 SP_{284}	17.1	X	176.83401	35.28599	274.65667	3.07017	0.1933023	0.25920757	2.4361513	20	1 1.5	21.0
302932 Francoballoni	17.0	X	207.52678	57.63944	212.36740	1.94764	0.1003809	0.25335805	2.4735057	20	—	—
302933 2003 SY_{322}	17.2	X	236.65155	33.62118	244.28116	3.64089	0.1975924	0.26559850	2.3969132	20	1 11.8	21.3
302934 2003 SL_{332}	17.0	X	21.90508	263.00757	117.76080	5.17599	0.1565656	0.24051637	2.5607840	20	—	—
302935 2003 SC_{334}	17.4	X	66.44682	48.09789	354.73152	3.82921	0.0280485	0.25025439	2.4939146	20	—	—
302936 2003 SB_{335}	16.7	X	209.25871	204.44419	19.38641	11.29595	0.0499200	0.24782110	2.5102127	20	—	—
302937 2003 SA_{382}	17.4	X	324.99622	17.12433	144.63582	2.82839	0.1575357	0.25464167	2.4651862	20	—	—
302938 2003 SX_{391}	17.2	X	141.20211	292.84946	56.61929	7.18144	0.1172671	0.25668718	2.4520723	20	1 7.7	20.6
302939 2003 SW_{396}	16.8	X	18.99947	277.22776	135.34513	8.15163	0.0485520	0.24441327	2.5334919	20	—	—
302940 2003 SR_{407}	16.6	X	75.12200	282.29948	69.90016	15.54579	0.1268562	0.24434353	2.5339740	20	—	—
302941 2003 SD_{416}	16.7	X	50.45278	56.13424	37.27391	7.23507	0.0781274	0.25716841	2.4490123	20	1 12.5	19.5
302942 2003 SE_{423}	17.7	X	32.78462	121.72585	266.60923	3.21222	0.1905129	0.24497364	2.5296270	20	—	—
302943 2003 SQ_{429}	18.1	X	143.26696	302.69772	20.34530	20.76342	0.0831736	0.37150840	1.9164182	20	—	—
302944 2003 TU_{3}	17.9	X	86.83847	210.68582	219.72445	19.80413	0.0848203	0.37717576	1.8971727	20	1 5.5	19.9
302945 2003 TP_{6}	16.8	X	167.44163	248.79815	57.86364	14.76477	0.2535490	0.25726029	2.4484292	20	—	—
302946 2003 TS_{20}	17.3	X	102.46688	278.31700	95.65418	3.62260	0.2042361	0.25367230	2.4714624	20	1 2.9	19.9
302947 2003 TV_{36}	18.7	X	57.96576	80.92517	286.00106	2.11342	0.2791011	0.24511247	2.5286717	20	—	—
302948 2003 UL_{6}	16.7	X	4.63237	249.04458	246.40531	18.92342	0.0923327	0.37372729	1.9088253	20	—	—
302949 2003 UH_{8}	17.0	X	178.44243	75.91088	227.40868	20.63856	0.0450670	0.37093640	1.9183878	20	—	—
302950 2003 UJ_{11}	17.2	X	128.15852	267.69254	42.88320	22.15379	0.0805422	0.36481293	1.9397953	20	—	—
302951 2003 UF_{18}	17.0	X	337.94927	67.45118	332.26155	2.26908	0.1150926	0.23658805	2.5890524	20	11 27.4	19.7
302952 2003 UM_{41}	17.6	X	112.24128	334.52015	24.57335	1.22243	0.2045034	0.25378550	2.4707275	20	—	—
302953 2003 UT_{42}	17.1	X	144.30157	302.21956	28.55240	5.82156	0.0971946	0.25447254	2.4662784	20	—	—
302954 2003 UG_{81}	15.0	X	58.53014	247.16126	129.27210	7.58938	0.3040316	0.12633514	3.9335675	20	—	—
302955 2003 UQ_{91}	16.6	X	294.63479	175.80953	58.43889	5.95140	0.1732409	0.26219953	2.4175833	20	1 16.8	20.0
302956 2003 UA_{95}	16.4	X	176.72084	106.69104	210.95869	5.82548	0.0882204	0.25666063	2.4522413	20	1 2.9	19.9
302957 2003 UQ_{109}	17.3	X	88.76545	71.20862	243.79449	4.45963	0.1640535	0.24098117	2.5574902	20	—	—
302958 2003 UZ_{166}	17.7	X	29.44251	187.87919	229.31254	18.54707	0.0752038	0.36402955	1.9425772	20	—	—
302959 2003 UU_{175}	17.4	X	85.84396	135.41637	207.62140	3.51093	0.1981103	0.24622929	2.5210197	20	—	—
302960 2003 US_{179}	17.1	X	31.54247	264.70962	87.08411	4.11328	0.2239003	0.23818374	2.5774761	20	12 31.5	20.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
302961 2003 UY_{209}	16.0	X	75.17510	80.11046	272.22613	3.46380	0.1195646	0.24318133	2.5420411	20	—	—
302962 2003 UL_{219}	17.1	X	107.49761	50.04037	261.66923	3.49331	0.1721156	0.24482501	2.5306507	20	—	—
302963 2003 UD_{224}	16.9	X	82.49674	6.75356	358.87945	4.39851	0.1652010	0.24596020	2.5228581	20	—	—
302964 2003 US_{239}	18.1	X	22.74411	41.72008	359.45902	3.49551	0.1703397	0.24308584	2.5427067	20	—	—
302965 2003 UT_{240}	17.5	X	327.97283	111.83347	324.69170	3.35257	0.2313480	0.23632618	2.5909647	20	—	—
302966 2003 UF_{241}	17.0	X	51.13746	27.67642	1.85079	4.05329	0.0718361	0.24423325	2.5347367	20	—	—
302967 2003 UU_{248}	17.7	X	354.87147	68.34059	333.51503	3.73495	0.2298856	0.23848728	2.5752886	20	—	—
302968 2003 UD_{269}	17.4	X	45.27613	153.53104	248.63015	1.91480	0.2510079	0.24497088	2.5296459	20	—	—
302969 2003 UT_{283}	17.1	X	355.19476	1.01822	36.32581	8.64451	0.1976808	0.23558732	2.5963791	20	—	—
302970 2003 UL_{302}	17.2	X	101.61541	44.74380	249.86579	4.33681	0.2227496	0.24362612	2.5389461	20	12 28.3	21.4
302971 2003 UT_{302}	16.7	X	213.06051	42.26084	229.75425	5.59706	0.1698342	0.25736884	2.4477407	20	—	—
302972 2003 UO_{304}	16.4	X	67.97841	0.05689	62.32019	9.88567	0.0809365	0.25430219	2.4673797	20	—	—
302973 2003 UW_{314}	16.1	X	65.20413	247.61212	132.34322	14.31161	0.1419841	0.24491646	2.5300207	20	—	—
302974 2003 UF_{315}	17.1	X	79.81915	120.93992	248.60552	18.49620	0.0953108	0.36238840	1.9484377	20	—	—
302975 2003 UH_{317}	17.0	X	327.99938	205.30141	1.62062	6.08856	0.0750504	0.26537515	2.3982579	20	2 8.2	19.9
302976 2003 UK_{317}	17.7	X	164.85652	178.39620	118.08067	2.36392	0.1822536	0.25473442	2.4645878	20	—	—
302977 2003 UO_{327}	17.6	X	180.09101	77.65676	202.08425	13.73724	0.1217957	0.25632173	2.4544024	20	—	—
302978 2003 UO_{336}	17.8	X	250.07959	92.88122	177.33500	2.29269	0.0343794	0.26256513	2.4153386	20	1 25.1	20.9
302979 2003 UK_{339}	16.1	X	281.36581	329.22957	229.71299	13.91929	0.0611004	0.25274093	2.4775304	20	—	—
302980 2003 UO_{357}	16.4	X	185.93589	202.69774	29.93869	5.64399	0.2234636	0.24323445	2.5416710	20	12 22.0	20.5
302981 2003 UK_{374}	16.8	X	31.99013	232.51746	193.16100	23.89653	0.0810475	0.25206427	2.4819624	20	—	—
302982 2003 UA_{376}	17.7	X	45.62843	160.03804	279.92380	1.20559	0.1804394	0.25382504	2.4704709	20	—	—
302983 2003 US_{376}	17.6	X	75.34549	171.20748	254.77609	0.65407	0.1764257	0.25659146	2.4526821	20	1 25.8	19.9
302984 2003 UB_{382}	17.6	X	174.85841	229.57436	47.25767	6.67894	0.0964631	0.25122835	2.4874649	20	—	—
302985 2003 VB_{4}	17.4	X	30.74872	51.25731	16.34610	7.17581	0.2475582	0.24507183	2.5289512	20	—	—
302986 2003 VL_{12}	15.7	X	50.86442	103.34197	275.57478	14.70177	0.0939174	0.24234217	2.5479059	20	—	—
302987 2003 WD_{2}	16.2	X	105.89291	36.58215	311.34129	1.04682	0.1145565	0.24696802	2.5159899	20	—	—
302988 2003 WH_{2}	16.8	X	93.40288	64.92829	278.88295	2.03743	0.0854343	0.24405569	2.5359660	20	—	—
302989 2003 WL_{3}	17.0	X	77.16420	262.33282	105.72597	2.96277	0.2214500	0.24606406	2.5221481	20	—	—
302990 2003 WQ_{22}	17.1	X	20.19412	155.12870	261.89717	16.82578	0.2858785	0.24264501	2.5457855	20	—	—
302991 2003 WV_{23}	16.7	X	336.96543	42.01130	67.80165	16.87612	0.0946565	0.24220159	2.5488918	20	—	—
302992 2003 WH_{26}	15.9	X	64.56661	256.30700	71.87626	28.41650	0.4139438	0.23948792	2.5681101	20	—	—
302993 2003 WH_{29}	16.2	X	264.32967	203.44358	271.68734	7.65376	0.1132073	0.23095992	2.6309442	20	11 4.6	19.6
302994 2003 WR_{33}	16.0	X	355.53210	217.08711	256.67479	14.25594	0.0803037	0.24464433	2.5318965	20	—	—
302995 2003 WV_{34}	16.1	X	320.78342	254.45494	249.67933	13.96505	0.1247625	0.24342535	2.5403419	20	—	—
302996 2003 WP_{42}	16.8	X	6.10019	229.64908	208.38952	26.13725	0.1626458	0.24250240	2.5467835	20	—	—
302997 2003 WE_{47}	16.7	X	61.40765	322.60439	20.75872	5.42907	0.1205184	0.23969204	2.5666519	20	—	—
302998 2003 WE_{52}	15.8	X	140.94840	30.39734	257.65697	12.53309	0.1202965	0.24109065	2.5567159	20	—	—
302999 2003 WN_{59}	17.1	X	58.48980	277.93178	76.75720	4.69831	0.2150539	0.24117209	2.5561403	20	—	—
303000 2003 WN_{60}	16.3	X	333.97165	147.35921	246.79007	8.26500	0.1248432	0.23029001	2.6360440	20	11 11.0	19.1
303001 2003 WQ_{61}	17.4	X	324.55961	210.63083	231.95887	3.83132	0.1098329	0.23602094	2.5931981	20	—	—
303002 2003 WE_{65}	16.6	X	331.57021	24.38335	67.34099	10.40867	0.0854287	0.23821065	2.5772820	20	—	—
303003 2003 WQ_{70}	17.0	X	43.86986	149.31083	231.91354	12.55297	0.1348281	0.24363723	2.5388689	20	—	—
303004 2003 WG_{72}	16.2	X	94.75551	10.25351	350.51630	4.87484	0.1155515	0.24559292	2.5253728	20	—	—
303005 2003 WO_{81}	15.7	X	60.03260	297.52865	82.80554	13.94356	0.3252851	0.23975009	2.5662376	20	—	—
303006 2003 WZ_{88}	16.6	X	74.77957	21.36259	96.66558	3.14060	0.1296841	0.25892679	2.4379122	20	4 2.3	19.3
303007 2003 WT_{91}	17.1	X	12.56584	6.45797	77.01616	5.73745	0.2103667	0.24345777	2.5401164	20	—	—
303008 2003 WV_{102}	16.1	X	40.43735	51.79903	347.79857	14.84323	0.1327842	0.24307674	2.5427702	20	—	—
303009 2003 WF_{105}	16.7	X	289.89193	78.09115	63.76911	5.32591	0.1664487	0.23645799	2.5900017	20	—	—
303010 2003 WJ_{115}	16.8	X	355.25208	71.78982	41.78591	4.32786	0.1769030	0.24361603	2.5390162	20	—	—
303011 2003 WR_{119}	15.7	X	97.76443	85.14296	265.83568	11.82197	0.1356444	0.24388217	2.5371687	20	—	—
303012 2003 WZ_{121}	15.9	X	87.11571	299.00772	54.42825	8.14404	0.1832207	0.24190633	2.5509653	20	—	—
303013 2003 WC_{125}	16.8	X	58.87468	116.41026	275.55376	10.55291	0.3311537	0.24482092	2.5306788	20	—	—
303014 2003 WH_{126}	16.5	X	343.86168	15.72985	44.03337	6.36835	0.3265942	0.23426802	2.6061178	20	—	—
303015 2003 WC_{127}	15.5	X	83.49552	296.91281	75.40239	14.05606	0.2065256	0.24395172	2.5366865	20	—	—
303016 2003 WM_{132}	16.3	X	76.54249	116.11303	240.35252	7.88680	0.0405553	0.24053743	2.5606346	20	—	—
303017 2003 WS_{147}	16.6	X	91.11601	225.33205	103.44009	9.61903	0.2991041	0.24349240	2.5398756	20	—	—
303018 2003 WB_{151}	16.2	X	26.86561	339.41390	81.06253	15.56880	0.0999838	0.24321688	2.5417933	20	—	—
303019 2003 WH_{156}	16.5	X	41.91062	211.60930	188.55828	13.40184	0.1701234	0.24210983	2.5495357	20	—	—
303020 2003 WH_{175}	17.2	X	64.95404	88.26566	253.25496	3.33433	0.0916637	0.23809481	2.5781178	20	—	—
303021 2003 WK_{178}	17.6	X	102.48970	89.56002	206.88973	4.15583	0.1483416	0.24139287	2.5545815	20	12 27.7	21.6
303022 2003 WD_{192}	17.1	X	65.31171	163.32832	220.71538	8.97288	0.2120404	0.24593589	2.5230244	20	—	—
303023 2003 XC	15.3	X	66.05889	326.10573	65.01665	27.81892	0.2902906	0.24183389	2.5514747	20	—	—
303024 2003 XV_{2}	17.0	X	41.74039	223.89082	189.88258	3.15709	0.2192797	0.24447918	2.5330366	20	—	—
303025 2003 XB_{3}	16.6	X	44.77794	244.49467	147.96726	4.72907	0.1994851	0.24228358	2.5483166	20	—	—
303026 2003 XO_{3}	16.0	X	317.63172	185.28479	236.63127	14.06399	0.1928403	0.23076333	2.6324382	20	11 20.7	18.2
303027 2003 XL_{19}	16.5	X	356.59368	47.36364	43.95575	13.92878	0.2220922	0.23782293	2.5800823	20	—	—
303028 2003 YR_{6}	16.6	X	345.75271	87.53467	6.17154	2.97590	0.2138357	0.23663712	2.5886945	20	—	—
303029 2003 YV_{9}	17.1	X	9.35768	167.38263	268.19167	4.82435	0.2063919	0.23999703	2.5644770	20	—	—
303030 2003 YV_{11}	16.1	X	340.52726	95.74238	351.91753	8.11177	0.1588717	0.23587358	2.5942780	20	—	—
303031 2003 YF_{13}	16.0	X	80.46984	343.81626	40.82151	3.88536	0.2909268	0.24518692	2.5281597	20	—	—
303032 2003 YK_{19}	16.8	X	77.02225	256.99149	80.58635	2.54592	0.1325980	0.23853115	2.5749728	20	—	—
303033 2003 YX_{20}	16.5	X	47.12259	71.36559	304.50290	4.03713	0.2358752	0.23683638	2.5872423	20	—	—
303034 2003 YY_{22}	17.1	X	353.12617	2.97980	91.94047	6.75255	0.2225552	0.24042573	2.5614276	20	—	—
303035 2003 YS_{30}	16.7	X	289.80718	51.94487	74.22538	13.22842	0.2472598	0.23231173	2.6207280	20	12 18.9	18.7
303036 2003 YR_{31}	17.4	X	332.36659	24.69177	70.00819	4.16482	0.2260366	0.23612789	2.5924150	20	—	—
303037 2003 YH_{35}	16.8	X	335.94256	195.20496	256.68131	1.86603	0.0895667	0.23681942	2.5873658	20	—	—
303038 2003 YD_{36}	16.3	X	350.94790	135.94593	302.36695	4.22125	0.1675059	0.23533229	2.5982546	20	—	—
303039 2003 YR_{38}	17.2	X	38.05248	138.11227	229.73760	3.65966	0.0479167	0.23680932	2.5874394	20	—	—
303040 2003 YA_{46}	16.2	X	300.03990	149.46440	15.51841	7.49817	0.1529549	0.24099832	2.5573688	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
303041 2003 YU_{56}	16.9	X	21.91857	325.16693	104.93454	7.04582	0.2234100	0.24233508	2.5479556	20	—	—
303042 2003 YQ_{59}	16.6	X	102.17137	22.81654	325.47789	2.12806	0.0767787	0.24353360	2.5395891	20	—	—
303043 2003 YG_{62}	16.2	X	45.36156	102.42528	284.78053	5.92442	0.2017991	0.23841103	2.5758376	20	—	—
303044 2003 YK_{62}	16.4	X	301.57770	27.84383	114.45149	3.94942	0.0936764	0.23532362	2.5983184	20	—	—
303045 2003 YL_{72}	16.2	X	27.52982	92.58671	338.15131	3.16835	0.1085044	0.24256001	2.5463802	20	—	—
303046 2003 YN_{77}	16.0	X	339.08864	4.77910	93.05193	18.05450	0.1698786	0.23645432	2.5900285	20	—	—
303047 2003 YV_{80}	16.3	X	277.33120	42.11626	93.76848	10.60253	0.0891198	0.22943682	2.6425749	20	12 26.5	19.5
303048 2003 YA_{90}	16.8	X	44.45791	58.45979	318.67306	5.05084	0.3335416	0.23788087	2.5796634	20	—	—
303049 2003 YM_{93}	15.8	X	122.67254	150.63328	69.88103	12.46995	0.1149533	0.22093631	2.7099294	20	10 16.8	20.1
303050 2003 YH_{102}	16.1	X	269.49485	343.68358	119.07010	9.95533	0.2287722	0.22496392	2.6774876	20	10 14.4	19.5
303051 2003 YF_{103}	15.6	X	272.67992	242.83301	265.52025	11.80914	0.2061565	0.22674603	2.6634400	20	12 19.7	18.3
303052 2003 YC_{106}	16.2	X	49.67078	303.95439	79.49596	6.25083	0.1515355	0.23847725	2.5753608	20	—	—
303053 2003 YZ_{107}	16.7	X	23.10971	329.43645	68.61268	12.85305	0.1883479	0.23617347	2.5920815	20	—	—
303054 2003 YM_{110}	16.5	X	293.28849	347.72553	117.07959	14.69012	0.2028195	0.22863126	2.6487785	20	12 2.9	19.3
303055 2003 YN_{111}	15.8	X	331.42395	154.12202	265.40360	21.22253	0.0335547	0.23294642	2.6159655	20	12 8.9	19.0
303056 2003 YB_{116}	17.1	X	318.18099	44.50956	71.75601	6.42976	0.2054246	0.23471109	2.6028371	20	—	—
303057 2003 YP_{116}	16.3	X	306.22761	322.53993	78.29943	7.43229	0.0773850	0.22228970	2.6989188	20	10 8.1	19.6
303058 2003 YF_{126}	16.0	X	63.82958	19.81122	338.70106	7.30980	0.2958797	0.24130446	2.5552054	20	—	—
303059 2003 YH_{130}	15.2	X	178.55551	85.85540	99.70007	12.59594	0.2318028	0.21490531	2.7603954	20	10 23.1	20.1
303060 2003 YK_{131}	17.1	X	16.62388	50.50739	25.56635	8.11749	0.1661121	0.24124171	2.5556485	20	—	—
303061 2003 YL_{134}	16.4	X	292.71127	93.69797	37.47289	9.24168	0.0653353	0.23185080	2.6242003	20	—	—
303062 2003 YE_{135}	16.7	X	330.08712	80.88462	27.18846	7.98553	0.1494702	0.23428589	2.6059853	20	—	—
303063 2003 YL_{141}	16.5	X	300.22778	6.65480	45.78427	12.39442	0.1607494	0.22481992	2.6786308	20	10 7.2	19.5
303064 2003 YW_{144}	16.6	X	358.86746	350.66461	74.08317	14.67184	0.1565920	0.23447175	2.6046079	20	—	—
303065 2003 YR_{145}	16.3	X	320.20942	7.33974	81.18589	14.88796	0.1562950	0.22979728	2.6398108	20	—	—
303066 2003 YB_{151}	16.0	X	249.31707	168.75753	2.74074	12.84601	0.1611392	0.22903079	2.6456972	20	12 21.3	19.6
303067 2003 YD_{151}	16.0	X	8.42962	2.89534	56.93416	14.91759	0.1347006	0.23447880	2.6045558	20	—	—
303068 2003 YM_{151}	16.2	X	285.28903	87.47865	48.89511	13.90808	0.1122736	0.23093904	2.6311027	20	—	—
303069 2003 YU_{152}	16.1	X	331.14394	84.72547	1.92826	13.88083	0.1637121	0.23130854	2.6283000	20	—	—
303070 2003 YE_{154}	16.3	X	296.89628	105.42947	62.01914	14.03877	0.2291637	0.23547214	2.5972257	20	—	—
303071 2003 YR_{154}	15.8	X	355.95649	49.99743	46.03489	11.45619	0.2489894	0.23638043	2.5905683	20	—	—
303072 2003 YZ_{154}	15.6	X	271.23926	101.31833	44.53337	15.99373	0.1701489	0.23141673	2.6274808	20	12 18.9	18.7
303073 2003 YB_{155}	16.2	X	319.30855	132.00615	357.54151	13.12275	0.1852449	0.23620484	2.5918519	20	—	—
303074 2003 YP_{158}	16.1	X	12.52313	58.17231	45.30470	14.67225	0.0690869	0.24577313	2.5241381	20	—	—
303075 2003 YY_{167}	16.3	X	16.32854	20.45971	59.65814	9.50207	0.1161771	0.24177117	2.5519160	20	—	—
303076 2003 YE_{175}	17.1	X	250.45148	125.95183	40.94807	2.30240	0.0357951	0.23024467	2.6363900	20	—	—
303077 2003 YK_{175}	16.1	X	112.72571	114.80455	105.27745	8.91751	0.0408669	0.21591614	2.7517732	20	9 28.3	20.1
303078 2003 YY_{175}	15.7	X	38.59264	353.19687	42.79084	15.69498	0.1591911	0.23961509	2.5672014	20	—	—
303079 2004 AB	16.0	X	237.24741	2.20904	196.62216	15.41069	0.4328202	0.22339192	2.6900338	20	12 3.0	20.4
303080 2004 AU_{1}	16.2	X	309.07758	325.77177	152.91737	12.76131	0.1277562	0.23577150	2.5950268	20	—	—
303081 2004 AC_{3}	15.8	X	286.67826	356.26572	65.31816	18.36443	0.0677543	0.22162136	2.7043421	20	10 13.2	19.5
303082 2004 AY_{7}	17.1	X	17.65930	72.30235	5.23645	5.88916	0.3232342	0.23976535	2.5661287	20	—	—
303083 2004 AT_{16}	16.6	X	38.93135	343.93305	340.03323	0.62047	0.0550444	0.22237953	2.6981920	20	11 6.7	20.2
303084 2004 AU_{21}	16.5	X	136.38831	153.97495	97.21800	1.52213	0.0750890	0.22467052	2.6798181	20	12 1.5	20.4
303085 2004 BN_{1}	17.3	X	253.44355	21.40782	149.18911	4.55078	0.0845072	0.22995777	2.6385824	20	—	—
303086 2004 BZ_{8}	15.7	X	353.88609	285.44621	67.95830	15.24729	0.0151156	0.21914272	2.7246957	20	10 17.4	19.5
303087 2004 BG_{9}	16.3	X	308.84634	357.03822	82.64039	13.79842	0.1549276	0.22643723	2.6658609	20	11 29.2	18.9
303088 2004 BH_{12}	17.1	X	340.47890	23.44350	58.16971	2.40780	0.0938107	0.23133681	2.6280859	20	—	—
303089 2004 BL_{15}	15.9	X	29.17347	255.82123	120.63024	17.10251	0.2004195	0.23214556	2.6219785	20	—	—
303090 2004 BE_{17}	16.4	X	358.58459	337.92932	65.06093	15.37733	0.2721258	0.23135495	2.6279485	20	—	—
303091 2004 BQ_{23}	16.0	X	231.88915	240.06076	282.40411	10.82568	0.1335063	0.22519902	2.6756238	20	11 18.8	19.8
303092 2004 BU_{23}	17.0	X	339.68355	306.43049	92.65485	6.85416	0.2665034	0.23187907	2.6239870	20	12 15.0	19.1
303093 2004 BO_{32}	16.4	X	120.39443	227.12639	27.24309	2.82437	0.0302371	0.22238746	2.6981278	20	11 15.3	20.2
303094 2004 BU_{34}	16.5	X	15.55959	286.89796	97.33330	4.22901	0.1206900	0.22891106	2.6466196	20	—	—
303095 2004 BN_{43}	15.9	X	246.01607	186.03385	324.38000	12.46850	0.1359099	0.22355785	2.6887026	20	11 18.5	19.7
303096 2004 BB_{54}	16.4	X	341.23682	258.67450	113.98049	7.39478	0.0441602	0.21966562	2.7203701	20	10 23.0	19.9
303097 2004 BL_{58}	15.8	X	51.32530	158.31463	233.45491	5.41395	0.2917832	0.23907215	2.5710867	20	—	—
303098 2004 BJ_{60}	16.2	X	12.98023	91.13766	297.02484	12.55093	0.0103929	0.22867074	2.6484736	20	12 21.1	19.8
303099 2004 BV_{75}	16.1	X	301.33250	147.55368	329.55908	13.30664	0.2028366	0.22911172	2.6450741	20	—	—
303100 2004 BK_{84}	16.1	X	233.09998	294.94407	224.17808	12.11979	0.2077311	0.22296094	2.6934992	20	11 7.2	19.7
303101 2004 BW_{92}	16.0	X	197.16124	306.98884	257.48494	10.48136	0.1994457	0.22270467	2.6955652	20	11 26.9	20.4
303102 2004 BJ_{96}	16.7	X	83.69957	181.25831	223.31799	1.29731	0.2428729	0.24579973	2.5239560	20	1 23.1	19.2
303103 2004 BR_{107}	16.0	X	165.24781	201.01859	350.23910	12.80136	0.1283929	0.21615188	2.7497721	20	10 12.1	20.5
303104 2004 BZ_{107}	16.5	X	281.01638	159.78427	330.28815	11.18925	0.2013722	0.22771606	2.6558708	20	12 9.8	19.5
303105 2004 BK_{117}	16.3	X	281.84098	134.07940	347.24658	12.62080	0.2125668	0.22677204	2.6632363	20	11 23.9	19.4
303106 2004 BR_{120}	16.2	X	321.99794	70.38005	38.29959	10.05464	0.1062815	0.23163596	2.6258227	20	—	—
303107 2004 BD_{121}	16.3	X	345.08309	56.58132	25.48782	15.21401	0.2247435	0.23252841	2.6190997	20	—	—
303108 2004 BQ_{137}	17.7	X	262.10172	33.34827	89.00102	3.60440	0.1061130	0.22442826	2.6817463	20	11 13.4	21.1
303109 2004 BR_{143}	17.3	X	285.33924	45.93966	0.81837	1.24738	0.0673052	0.21651068	2.7467334	20	9 10.5	20.6
303110 2004 BE_{144}	17.1	X	347.26808	262.42040	102.73226	3.55965	0.1008411	0.22024854	2.7155680	20	10 23.3	20.2
303111 2004 BF_{151}	16.1	X	349.23963	156.34615	276.17082	12.46190	0.1337235	0.23291654	2.6161893	20	—	—
303112 2004 BA_{153}	16.9	X	45.42625	267.96213	97.67849	4.77175	0.1722813	0.23222346	2.6213921	20	—	—
303113 2004 BD_{162}	16.2	X	335.15826	199.51357	245.34492	12.41530	0.2082025	0.23095842	2.6309556	20	—	—
303114 2004 CA_{1}	16.7	X	335.41534	102.15477	3.26384	28.94327	0.3393844	0.23436625	2.6053896	20	—	—
303115 2004 CB_{2}	15.8	X	204.64486	231.05074	276.74244	6.78809	0.1571380	0.21587871	2.7520913	20	9 25.6	20.3
303116 2004 CE_{5}	16.1	X	178.44601	98.10723	83.59031	5.51094	0.0777659	0.21749794	2.7384151	20	10 22.6	20.1
303117 2004 CK_{16}	17.3	X	327.08711	323.41301	132.54512	3.46811	0.1100802	0.22943175	2.6426138	20	—	—
303118 2004 CF_{20}	17.2	X	105.50390	185.51333	102.59604	4.86145	0.0746952	0.22424018	2.6832456	20	12 13.8	21.2
303119 2004 CE_{30}	16.8	X	236.02060	140.43473	314.32267	4.37326	0.0106428	0.21506557	2.7590239	20	9 13.7	20.6
303120 2004 CN_{40}	16.6	X	295.56582	124.35742	329.18726	14.68949	0.1634645	0.22455012	2.6807760	20	11 14.7	19.9

Planet		H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
		m		°	°	°	°		°				
303121	2004 CQ_{43}	16.4	X	10.02530	333.10670	337.67209	2.67596	0.0733379	0.20852522	2.8164172	20	9 8.8	19.7
303122	2004 CF_{45}	16.6	X	251.59862	63.24301	46.05123	6.59200	0.1013714	0.21955308	2.7212996	20	10 13.6	20.2
303123	2004 CC_{56}	16.7	X	74.51217	211.24759	38.10307	4.99879	0.0225041	0.21178833	2.7874133	20	9 12.9	20.5
303124	2004 CT_{58}	16.6	X	29.85183	39.29922	13.44755	4.66967	0.2742721	0.23816423	2.5776168	20	—	—
303125	2004 CR_{62}	15.8	X	203.38826	107.51169	14.40983	13.10002	0.0635388	0.21193007	2.7861703	20	9 7.7	20.0
303126	2004 CP_{71}	16.4	X	345.50499	143.32696	275.67616	12.91721	0.2523090	0.22948314	2.6422193	20	—	—
303127	2004 CL_{76}	16.5	X	328.31601	272.86399	153.68679	12.71749	0.1592077	0.22642794	2.6659338	20	12 18.5	19.5
303128	2004 CH_{83}	16.6	X	222.59733	144.17093	333.04530	2.72930	0.2198694	0.21586656	2.7521946	20	9 2.9	20.9
303129	2004 CF_{89}	17.0	X	9.07288	298.96982	98.03161	5.83696	0.2623620	0.23186236	2.6241131	20	—	—
303130	2004 CS_{91}	16.2	X	242.13742	325.15960	183.96504	8.48999	0.1839103	0.22242602	2.6978160	20	11 10.0	19.9
303131	2004 CF_{92}	17.0	X	302.69534	207.48655	240.37120	5.48614	0.2288873	0.22585028	2.6704777	20	11 20.9	19.1
303132	2004 CU_{92}	16.5	X	265.73162	219.55210	292.89301	5.50360	0.1580896	0.22557015	2.6726882	20	12 20.5	19.5
303133	2004 CG_{102}	16.2	X	236.35656	342.92271	178.55000	14.29304	0.0783339	0.22350161	2.6891537	20	12 3.9	20.1
303134	2004 CU_{107}	16.9	X	181.14677	232.30366	327.86279	7.04463	0.1576119	0.21832550	2.7314908	20	11 7.2	21.3
303135	2004 CJ_{111}	16.8	X	255.46711	306.42317	189.89114	3.00000	0.0519984	0.22225021	2.6992386	20	11 29.2	20.2
303136	2004 CV_{112}	16.1	X	336.67665	349.05133	104.89538	13.84871	0.1315845	0.23294615	2.6159676	20	—	—
303137	2004 CW_{112}	16.2	X	309.81885	352.09898	103.88725	12.51196	0.1055573	0.22836294	2.6508529	20	12 24.3	19.2
303138	2004 CX_{130}	16.4	X	175.36933	355.18759	173.92763	9.08326	0.1072334	0.21334736	2.7738174	20	9 30.3	20.5
303139	2004 DM_{10}	16.3	X	246.82600	318.85471	169.04158	9.11895	0.1195949	0.22028037	2.7153064	20	10 29.5	20.0
303140	2004 DA_{15}	16.3	X	204.68858	305.39237	216.70181	12.39456	0.1413263	0.21783462	2.7355927	20	10 17.8	20.6
303141	2004 DU_{23}	16.6	X	271.49314	280.03394	239.57064	10.33057	0.2332458	0.22823603	2.6518355	20	12 28.6	19.3
303142	2004 DU_{24}	15.9	X	27.26552	24.08539	45.69585	3.89852	0.4732561	0.23897290	2.5717986	20	—	—
303143	2004 DE_{41}	16.0	X	163.75260	176.23647	11.87150	11.23328	0.0892936	0.21214029	2.7843293	20	10 10.6	20.1
303144	2004 DN_{41}	15.5	X	251.79368	118.28470	3.31914	24.46165	0.0936033	0.21731390	2.7399610	20	10 19.7	19.4
303145	2004 DB_{46}	17.2	X	329.17937	136.24342	333.29188	3.71909	0.1830986	0.23192331	2.6236533	20	—	—
303146	2004 DH_{52}	16.2	X	235.34064	56.43980	78.26441	4.44921	0.1411180	0.21756112	2.7378849	20	10 19.8	20.0
303147	2004 DD_{57}	16.9	X	288.15878	184.81915	223.44900	2.72836	0.0885705	0.21451005	2.7637852	20	9 12.2	20.3
303148	2004 DD_{69}	15.9	X	37.21329	293.98998	338.27033	8.12276	0.1268732	0.20871410	2.8147178	20	9 5.1	19.4
303149	2004 DY_{70}	16.5	X	186.19809	323.44879	171.47116	4.94321	0.0613024	0.20867790	2.8150433	20	8 30.1	20.5
303150	2004 DB_{77}	16.8	X	323.39489	275.11637	163.69282	13.03396	0.2463265	0.22847529	2.6499839	20	12 30.8	19.2
303151	2004 EL_{2}	16.1	X	188.70739	186.19169	335.51504	8.41697	0.0795343	0.21331560	2.7740927	20	10 2.7	20.3
303152	2004 EQ_{5}	15.7	X	144.24466	6.63129	163.75450	15.65462	0.0703349	0.20603119	2.8391003	20	8 27.6	20.0
303153	2004 EA_{20}	16.1	X	264.43628	358.18296	140.78650	8.75647	0.2052109	0.22186814	2.7023364	20	11 24.6	19.5
303154	2004 EG_{24}	16.3	X	307.33187	11.06261	108.06256	6.23187	0.2247291	0.22791046	2.6543603	20	—	—
303155	2004 EX_{29}	16.9	X	294.37205	245.74113	156.25305	3.55190	0.1069140	0.21130844	2.7916319	20	9 11.9	20.2
303156	2004 EE_{34}	16.3	X	190.29772	174.52990	339.35728	4.59792	0.1086484	0.21191958	2.7862622	20	9 24.5	20.6
303157	2004 EA_{44}	16.6	X	277.15354	230.75210	223.25839	2.91754	0.2652451	0.22015851	2.7163083	20	10 1.2	19.7
303158	2004 EJ_{45}	16.2	X	314.39874	43.60562	355.84912	6.21202	0.0325111	0.21367710	2.7709630	20	10 13.7	19.8
303159	2004 EX_{56}	15.6	X	185.29664	298.48717	244.45795	15.96581	0.1171050	0.21629373	2.7485698	20	10 23.7	20.0
303160	2004 ET_{57}	16.4	X	259.20869	208.35969	293.34203	11.53695	0.1755853	0.22184991	2.7024845	20	11 20.6	20.0
303161	2004 EG_{60}	16.3	X	230.94424	195.45625	346.35487	6.59741	0.2820117	0.22075489	2.7114140	20	11 21.2	20.5
303162	2004 EM_{61}	16.9	X	206.84445	348.87030	180.24417	4.93346	0.0975422	0.21707899	2.7419373	20	11 4.1	20.9
303163	2004 EL_{68}	16.4	X	282.25878	299.71267	168.94051	3.64985	0.1548735	0.22331597	2.6906437	20	11 19.2	19.3
303164	2004 EK_{76}	16.7	X	231.56051	345.23770	140.92564	4.13269	0.1281861	0.21516532	2.7581711	20	10 5.7	20.7
303165	2004 EU_{78}	16.1	X	221.35631	139.28881	10.08300	12.57033	0.1136239	0.21670982	2.7450504	20	10 21.1	20.1
303166	2004 EN_{79}	16.2	X	163.01802	141.83073	60.82205	2.77620	0.1752972	0.21158204	2.7892248	20	10 26.8	20.9
303167	2004 EE_{86}	16.1	X	245.16882	98.23171	22.46823	13.08569	0.0669021	0.21569343	2.7536671	20	10 21.7	19.8
303168	2004 EO_{86}	16.8	X	311.15317	30.95354	72.16300	5.65299	0.1355621	0.22563412	2.6721830	20	—	—
303169	2004 EL_{87}	16.7	X	235.30506	87.68122	18.15211	2.36927	0.0295615	0.21187848	2.7866226	20	9 26.0	20.6
303170	2004 EY_{90}	16.1	X	346.59908	198.48386	164.71465	16.43658	0.1180506	0.21310039	2.7759601	20	10 21.0	19.5
303171	2004 EX_{103}	16.3	X	254.17181	102.75677	44.20093	13.68343	0.1295214	0.22140954	2.7060667	20	11 27.2	19.8
303172	2004 EW_{108}	16.8	X	34.96113	262.75284	349.13136	5.64389	0.1194618	0.19914017	2.9042242	20	8 4.5	20.4
303173	2004 FD_{9}	16.0	X	292.14012	79.14814	31.94039	13.15289	0.2343263	0.22301045	2.6931006	20	11 26.7	18.8
303174	2004 FH_{11}	16.6	X	252.05726	88.04703	203.57154	21.37945	0.4466467	0.29088532	2.2559087	20	1 23.4	21.5
303175	2004 FA_{25}	16.5	X	252.33098	29.15526	64.07532	4.34549	0.0618680	0.21301704	2.7766842	20	9 28.9	20.2
303176	2004 FJ_{26}	16.3	X	232.27413	132.60914	3.18395	9.26288	0.0541876	0.21511352	2.7586138	20	10 24.7	20.2
303177	2004 FW_{31}	16.0	X	197.29967	117.44261	353.50128	8.86834	0.0863946	0.20408407	2.8571298	20	8 13.1	20.3
303178	2004 FY_{34}	15.9	X	282.62699	128.35731	317.88783	4.71217	0.0340549	0.21556650	2.7547479	20	10 30.6	19.5
303179	2004 FJ_{37}	16.0	X	193.59636	67.87373	47.04840	2.71439	0.0158720	0.20487357	2.8497850	20	8 17.4	20.0
303180	2004 FU_{53}	16.9	X	331.56478	18.95588	22.57107	6.26409	0.0268497	0.21711265	2.7416539	20	11 10.2	20.4
303181	2004 FN_{63}	16.4	X	253.01553	119.75556	24.25733	13.40585	0.1460662	0.21942507	2.7223579	20	11 17.6	20.0
303182	2004 FB_{75}	17.0	X	342.34217	210.32533	161.95783	3.91404	0.1062229	0.21391823	2.7688804	20	10 23.2	20.1
303183	2004 FZ_{75}	16.6	X	275.52844	100.24211	343.54297	2.47806	0.0500522	0.21355361	2.7720312	20	10 16.6	20.3
303184	2004 FS_{83}	16.3	X	181.71974	96.73215	93.55332	9.24754	0.1437637	0.21688024	2.7436122	20	11 2.6	20.7
303185	2004 FQ_{90}	15.4	X	242.69925	265.68056	249.63272	23.62188	0.1633161	0.22084924	2.7106416	20	11 19.3	19.1
303186	2004 FG_{95}	16.3	X	326.73200	69.07726	52.14027	13.38767	0.2845554	0.23181658	2.6244585	20	—	—
303187	2004 FQ_{103}	16.3	X	197.37358	121.47199	47.07003	7.77968	0.2012075	0.21609157	2.7502837	20	10 16.2	20.8
303188	2004 FL_{115}	17.7	X	359.35066	3.37907	289.62907	2.32876	0.1298709	0.32079818	2.1133988	20	8 16.6	19.2
303189	2004 FB_{120}	16.7	X	306.00192	246.89792	164.35245	5.18080	0.0944790	0.21484477	2.7609139	20	10 16.3	20.0
303190	2004 FS_{120}	15.8	X	107.72507	95.38487	101.75687	10.41011	0.0795857	0.20133230	2.8831047	20	8 24.6	20.1
303191	2004 FJ_{136}	15.0	X	256.65699	242.89482	80.85353	17.54445	0.2308578	0.17909996	3.1170161	20	4 6.9	20.3
303192	2004 FE_{146}	16.5	X	3.05466	86.80316	150.78477	7.69299	0.1860894	0.18774276	3.0206048	20	5 22.2	19.7
303193	2004 FO_{148}	15.8	X	194.59313	129.72016	64.48641	16.34362	0.2363404	0.21700838	2.7425320	20	11 11.5	20.4
303194	2004 FF_{150}	16.3	X	343.31975	240.05570	338.87833	4.14681	0.1424110	0.18390649	3.0624665	20	3 18.9	20.0
303195	2004 GB_{15}	15.8	X	271.88147	248.77910	277.81388	9.45330	0.2915419	0.22594467	2.6697339	20	12 29.7	18.2
303196	2004 GN_{18}	15.6	X	244.79839	76.74938	54.04376	21.11387	0.3133973	0.21861045	2.7291167	20	10 11.4	20.0
303197	2004 GB_{29}	15.9	X	308.23087	74.93097	200.18476	7.62226	0.2890114	0.18389350	3.0626107	20	3 15.0	20.0
303198	2004 GJ_{41}	15.3	X	298.78078	42.46069	243.73576	16.43665	0.2018091	0.18311613	3.0712723	20	3 25.3	19.8
303199	2004 GH_{43}	16.6	X	258.38626	106.26217	32.18908	3.57270	0.1070233	0.22010481	2.7167501	20	11 26.6	20.2
303200	2004 GK_{47}	16.3	X	335.86318	287.72624	29.95503	5.41317	0.1072513	0.19647902	2.9303889	20	7 25.2	19.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
303201 2004 GV_{50}	16.5	X	298.13997	236.22091	37.62944	5.71607	0.1974213	0.18253245	3.0778161	20	3 17.9	20.8
303202 2004 GH_{51}	16.5	X	326.64004	287.72733	45.00606	5.28758	0.1265985	0.19777149	2.9176079	20	7 28.9	20.0
303203 2004 GH_{67}	15.5	X	265.18271	238.95846	55.49642	17.74753	0.2274243	0.17814570	3.1281374	20	3 12.1	20.8
303204 2004 GV_{77}	15.8	X	214.13793	81.46991	77.62419	25.49219	0.1437584	0.21292815	2.7774569	20	11 3.7	20.3
303205 2004 GQ_{83}	15.0	X	292.37880	8.99664	270.87062	12.27326	0.1981978	0.18142965	3.0902755	20	3 9.6	19.8
303206 2004 HH_{7}	16.4	X	271.80531	243.31205	208.83846	4.38061	0.1280202	0.21332165	2.7740403	20	10 11.7	19.8
303207 2004 HH_{39}	16.5	X	156.92507	310.86152	190.76627	7.68992	0.1011024	0.20408559	2.8571156	20	8 4.2	21.0
303208 2004 HN_{46}	16.5	X	344.68488	38.78936	201.92095	4.71764	0.1177173	0.18535854	3.0464518	20	4 22.6	20.0
303209 2004 HG_{50}	16.0	X	288.53494	78.76733	64.42440	13.79620	0.2581621	0.22440875	2.6819018	20	—	—
303210 2004 HV_{58}	16.4	X	29.86381	164.17599	66.76676	1.68961	0.1419643	0.18975743	2.9991869	20	6 28.8	20.0
303211 2004 HZ_{63}	15.6	X	292.24771	66.05225	210.47657	26.35182	0.1824638	0.17850398	3.1239503	20	3 9.7	20.5
303212 2004 JN_{10}	15.4	X	290.42974	232.10948	75.85705	16.40606	0.3049508	0.18125087	3.0923073	20	4 11.3	20.2
303213 2004 JZ_{20}	15.9	X	139.01385	326.40087	207.28170	14.71826	0.0832531	0.20292457	2.8680032	20	8 22.5	20.5
303214 2004 JY_{21}	16.1	X	182.48687	78.30605	49.95213	10.93907	0.0397694	0.19933414	2.9023398	20	8 23.3	20.5
303215 2004 JJ_{29}	15.7	X	273.88773	86.57546	222.83748	15.12115	0.2318355	0.17888395	3.1195250	20	3 24.3	20.6
303216 2004 JV_{34}	15.6	X	277.11221	209.91757	82.75696	16.23186	0.2420918	0.17656970	3.1467237	20	3 18.5	20.7
303217 2004 JG_{49}	16.4	X	146.75507	309.44322	234.57725	16.56865	0.1122456	0.20300894	2.8672085	20	9 11.6	21.2
303218 2004 KX	15.7	X	355.80901	349.26952	258.72794	13.81815	0.1225982	0.18582330	3.0413701	20	5 20.5	19.4
303219 2004 KX_{10}	16.0	X	327.60912	167.46601	106.89847	10.05153	0.1559762	0.18494479	3.0509938	20	5 8.7	19.8
303220 2004 MM_{6}	15.2	X	286.95787	68.49096	196.38167	21.83527	0.1018853	0.17402915	3.1772744	20	3 2.1	19.9
303221 2004 NC	17.6	X	308.05375	203.13793	106.32651	6.63086	0.2200606	0.30324001	2.1942110	20	5 8.6	19.8
303222 2004 NV	17.4	X	268.67664	212.56503	127.60751	7.33646	0.1664121	0.30032634	2.2083798	20	5 5.9	20.3
303223 2004 NW_{10}	16.8	X	256.92602	352.03945	307.27716	7.97203	0.1569539	0.29219092	2.2491836	20	2 23.7	20.1
303224 2004 NZ_{29}	18.2	X	250.11214	85.40648	225.09606	3.38992	0.2164626	0.29235444	2.2483448	20	2 27.6	21.8
303225 2004 NO_{30}	15.5	X	313.64879	256.48385	47.64879	17.56326	0.1245302	0.17971887	3.1098559	20	5 24.1	19.5
303226 2004 NY_{30}	14.6	X	182.11270	287.97071	114.22048	20.53128	0.4561210	0.16340933	3.3134836	20	5 8.9	21.4
303227 2004 NM_{33}	18.2	X	272.22743	241.35583	48.51759	1.30696	0.2131463	0.29407027	2.2395906	20	2 24.4	21.4
303228 2004 OQ_{6}	17.9	X	327.60315	167.41073	113.96976	5.73525	0.1672811	0.30325791	2.1941246	20	5 10.8	19.8
303229 2004 OU_{8}	17.3	X	258.55527	61.09598	285.24911	9.92847	0.1452537	0.29970527	2.2114297	20	4 27.9	20.5
303230 2004 PZ	17.7	X	250.71262	39.94994	296.16808	3.82017	0.1600733	0.29462709	2.2367680	20	4 5.2	20.9
303231 2004 PF_{22}	17.8	X	189.63203	226.79540	131.95706	6.01789	0.2139788	0.28719564	2.2751891	20	3 11.6	21.6
303232 2004 PG_{25}	17.9	X	221.65727	47.98847	332.70251	6.03546	0.2094800	0.29515321	2.2341091	20	5 1.2	21.5
303233 2004 PD_{26}	18.9	X	247.20691	88.08238	233.43033	0.77208	0.2386391	0.29246466	2.2477799	20	3 9.6	22.6
303234 2004 PA_{34}	17.8	X	270.20246	3.41525	325.59447	3.14577	0.1902079	0.29678136	2.2259307	20	4 14.4	20.8
303235 2004 PL_{37}	17.6	X	255.41801	107.87143	237.90686	3.44888	0.2160254	0.29639876	2.2278458	20	4 18.7	20.9
303236 2004 PJ_{40}	17.1	X	214.98554	20.40304	351.44430	6.93801	0.2268507	0.29051284	2.2578365	20	4 13.7	20.8
303237 2004 PS_{41}	18.0	X	261.10193	341.08622	319.72653	3.17365	0.2036463	0.29265046	2.2468284	20	2 27.4	21.4
303238 2004 PC_{50}	15.5	X	187.12634	340.22346	327.62356	9.24271	0.1736773	0.15557579	3.4237973	20	1 20.5	21.2
303239 2004 PF_{54}	17.5	X	344.32680	23.42081	252.73453	1.87299	0.1542074	0.30270538	2.1967938	20	6 9.0	19.0
303240 2004 PP_{68}	18.0	X	203.05784	252.87114	119.19434	1.73599	0.2232868	0.29083952	2.2561455	20	4 7.2	21.7
303241 2004 PP_{86}	17.7	X	331.45509	48.42712	242.48583	2.61333	0.1022193	0.30185749	2.2009056	20	6 10.7	19.3
303242 2004 PM_{100}	17.4	X	199.77229	300.95220	39.32086	4.59559	0.1795982	0.28285392	2.2984122	20	2 26.5	21.0
303243 2004 PB_{114}	17.3	X	168.63624	92.83745	333.96224	7.59800	0.0774164	0.29448341	2.2374954	20	5 9.9	20.5
303244 2004 QQ_{4}	17.0	X	233.06921	29.12080	294.72287	6.44721	0.3016727	0.28736833	2.2742775	20	2 25.9	21.1
303245 2004 QB_{9}	17.0	X	221.61443	325.19109	28.74480	7.90141	0.1586634	0.28800085	2.2709463	20	4 3.0	20.3
303246 2004 QO_{9}	17.8	X	268.35112	305.71717	31.26237	4.06693	0.2012164	0.29724328	2.2236240	20	4 23.2	20.6
303247 2004 QE_{10}	16.9	X	122.05597	281.56352	89.26478	6.99818	0.1369050	0.27570814	2.3379559	20	1 11.0	19.8
303248 2004 QV_{16}	18.0	X	275.31949	49.23996	196.23389	28.52746	0.5741301	0.41884854	1.7691502	20	—	—
303249 2004 QL_{24}	16.8	X	226.02305	183.07549	167.56966	8.67012	0.2003044	0.28972590	2.2619231	20	4 1.1	20.3
303250 2004 RU_{10}	18.1	X	290.52708	65.23888	119.00976	15.90882	0.6568184	1.14664891	0.9040291	20	—	—
303251 2004 RW_{21}	17.4	X	160.27806	267.87584	165.17974	6.74659	0.1562338	0.29082218	2.2562352	20	5 17.6	20.9
303252 2004 RZ_{21}	18.2	X	239.61552	346.05494	343.02224	3.01161	0.1390908	0.29032099	2.2588311	20	3 18.8	21.5
303253 2004 RD_{35}	17.6	X	201.99057	221.76006	140.01680	5.57487	0.1465209	0.28788692	2.2715454	20	3 26.1	21.0
303254 2004 RE_{43}	17.7	X	204.38470	174.75126	187.35049	2.66977	0.1754136	0.28873864	2.2670762	20	3 26.4	21.2
303255 2004 RZ_{43}	17.6	X	173.43924	25.94266	330.39192	2.57632	0.1462724	0.28242349	2.3007469	20	2 18.8	21.0
303256 2004 RW_{46}	17.5	X	294.02881	349.24891	326.57550	0.57691	0.1218206	0.29756986	2.2219968	20	5 10.2	20.0
303257 2004 RO_{50}	17.1	X	187.95316	317.30979	4.77792	6.51458	0.1420240	0.27991137	2.3144920	20	1 22.9	20.6
303258 2004 RO_{56}	17.7	X	230.05325	186.07353	196.71473	3.75552	0.1366012	0.29568283	2.2314405	20	5 21.0	20.7
303259 2004 RU_{73}	17.4	X	185.30928	315.98938	70.97839	3.91553	0.1678742	0.28752099	2.2734724	20	4 11.5	20.8
303260 2004 RP_{74}	16.9	X	179.48467	296.74516	52.89992	6.72763	0.1444695	0.28068954	2.3102123	20	2 19.6	20.5
303261 2004 RV_{79}	16.8	X	232.85337	248.79708	49.70157	23.68480	0.2540876	0.28480310	2.2879134	20	2 8.3	21.3
303262 2004 RJ_{84}	18.6	X	101.13577	189.78262	342.94542	13.23344	0.3105244	0.86061956	1.0946163	20	9 25.2	18.5
303263 2004 RJ_{102}	17.4	X	347.73144	277.05857	327.71357	6.70594	0.2270773	0.29796954	2.2200094	20	4 7.9	19.0
303264 2004 RV_{105}	17.5	X	187.25976	48.16108	295.68119	5.59658	0.1731471	0.28138195	2.3064209	20	2 16.1	21.1
303265 Littmann	17.2	X	296.40371	63.02005	167.43979	6.74814	0.0565892	0.28224168	2.3017348	20	1 24.5	20.1
303266 2004 RX_{125}	17.7	X	121.47822	246.71510	186.76489	4.12405	0.1724767	0.28355016	2.2946482	20	4 7.3	20.8
303267 2004 RV_{136}	17.9	X	217.04978	317.90895	2.16343	2.04306	0.1381038	0.28403511	2.2920356	20	2 15.4	21.3
303268 2004 RT_{141}	17.2	X	275.81900	146.41127	159.22541	7.28046	0.1529565	0.29213246	2.2494836	20	3 28.5	20.1
303269 2004 RN_{155}	17.5	X	322.63222	73.10333	215.79707	5.22362	0.1917029	0.29953341	2.2122755	20	5 6.5	19.2
303270 2004 RO_{155}	17.6	X	344.36761	17.02712	264.24461	4.04828	0.1439442	0.30131567	2.2035432	20	6 19.0	19.2
303271 2004 RE_{170}	17.4	X	313.89786	160.66929	110.99754	5.47419	0.1587376	0.29476883	2.2360508	20	4 2.6	19.7
303272 2004 RF_{170}	17.6	X	166.72089	128.68736	284.12342	5.80767	0.2421575	0.28627455	2.2800667	20	4 26.5	21.5
303273 2004 RD_{172}	17.5	X	220.16887	188.75483	132.68412	4.14045	0.1213395	0.28505901	2.2865438	20	2 20.4	20.9
303274 2004 RM_{180}	17.7	X	219.76349	104.31649	209.99638	7.42026	0.1985610	0.28425358	2.2908611	20	2 6.8	21.6
303275 2004 RF_{188}	17.1	X	167.87340	205.69406	222.06957	7.75053	0.1753569	0.28885328	2.2664763	20	5 17.3	20.6
303276 2004 RA_{189}	16.8	X	208.37254	68.55636	312.47158	6.02631	0.1186284	0.28998672	2.2605666	20	4 22.4	20.1
303277 2004 RC_{190}	17.0	X	225.63652	127.83146	238.21259	5.77062	0.1404774	0.29062320	2.2572649	20	4 21.4	20.2
303278 2004 RB_{191}	17.3	X	167.09572	174.85956	237.18179	4.33857	0.1866056	0.28654397	2.2786373	20	4 25.3	20.8
303279 2004 RK_{191}	16.7	X	229.58706	41.05915	308.61732	6.16715	0.1471132	0.28871056	2.2672231	20	4 1.3	20.1
303280 2004 RH_{194}	17.4	X	211.52657	66.00571	263.28170	3.45454	0.2310028	0.28407815	2.2918041	20	2 19.2	21.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
303281 2004 RE_{231}	17.4	X	229.63602	131.54026	197.02686	4.67986	0.1830266	0.28585541	2.2822949	20	3 5.7	21.0
303282 2004 RH_{251}	17.9	X	248.27124	5.61806	318.93081	2.32308	0.1895121	0.28954710	2.2628542	20	3 17.6	21.3
303283 2004 RA_{265}	18.0	X	6.25544	185.98811	35.99821	1.58867	0.1389272	0.29402111	2.2398402	20	4 27.1	19.6
303284 2004 RJ_{294}	17.8	X	325.66094	36.79987	200.91653	4.24644	0.0981274	0.28873409	2.2671000	20	3 8.6	20.3
303285 2004 RG_{311}	16.6	X	90.03574	241.38495	192.90001	20.69817	0.1868424	0.27394177	2.3479952	20	2 25.8	19.6
303286 2004 RH_{335}	17.0	X	151.27537	246.71713	213.91671	5.48127	0.0323308	0.29174252	2.2514876	20	6 6.1	19.8
303287 2004 RQ_{336}	17.2	X	4.08127	326.31650	223.88964	4.44373	0.1315643	0.28176459	2.3043323	20	3 1.0	19.4
303288 2004 RV_{336}	17.5	X	134.47638	236.24848	239.17030	2.20365	0.1156207	0.28961342	2.2625087	20	6 12.2	20.4
303289 2004 RH_{337}	15.1	X	345.01123	170.05266	15.49137	10.22025	0.0284658	0.15164371	3.4827299	20	2 27.3	20.0
303290 2004 RO_{345}	17.8	X	210.44591	312.29319	70.09876	3.79933	0.1703114	0.29065750	2.2570873	20	4 28.4	21.3
303291 2004 RQ_{345}	17.4	X	236.44495	307.59855	46.98800	7.25213	0.1470229	0.29218238	2.2492274	20	4 19.4	20.7
303292 2004 SV_{3}	17.7	X	188.99512	39.64568	349.29841	2.32929	0.1735472	0.28780947	2.2719530	20	4 15.2	21.2
303293 2004 SU_{4}	17.5	X	225.67065	4.73868	329.45175	2.73202	0.1693235	0.28554008	2.2839749	20	3 10.3	21.1
303294 2004 SR_{8}	17.7	X	285.79987	293.57047	18.90954	3.60119	0.1604634	0.29515627	2.2340937	20	4 16.5	20.4
303295 2004 SB_{13}	17.9	X	238.82538	226.08217	94.29472	4.05991	0.2307196	0.28995537	2.2607295	20	3 3.9	21.5
303296 2004 ST_{14}	17.3	X	211.57040	275.71164	59.59811	7.45569	0.1854162	0.28511348	2.2862526	20	3 3.2	21.0
303297 2004 SN_{16}	17.3	X	149.16934	255.86798	71.94743	6.96720	0.2030088	0.27360856	2.3499012	20	—	—
303298 2004 SD_{24}	16.9	X	200.15402	199.58282	184.70475	9.63579	0.1514988	0.28766241	2.2727272	20	4 22.2	20.3
303299 2004 SM_{40}	17.0	X	202.47024	346.82075	39.84065	5.57517	0.2040396	0.28703296	2.2760486	20	4 25.1	20.6
303300 2004 SM_{55}	17.9	X	163.24803	139.35922	276.08848	5.86785	0.1434723	0.28842136	2.2687384	20	4 22.3	21.3
303301 2004 TQ_{4}	17.7	X	64.54966	62.93865	29.63148	2.72077	0.1711882	0.27182958	2.3601426	20	2 11.1	19.7
303302 2004 TQ_{5}	17.9	X	161.13639	56.97884	32.81870	4.21225	0.0984558	0.29150716	2.2526994	20	6 5.7	21.0
303303 2004 TW_{15}	17.4	X	126.40628	63.38872	29.93369	20.56759	0.2749868	0.28183083	2.3039712	20	5 13.7	21.3
303304 2004 TW_{17}	16.6	X	218.48134	69.29603	278.04097	3.45597	0.1927125	0.28575066	2.2828527	20	3 18.3	20.3
303305 2004 TS_{19}	17.0	X	219.83853	192.20127	148.59212	5.70074	0.1678200	0.28532589	2.2851178	20	3 15.1	20.4
303306 2004 TU_{21}	17.7	X	305.98464	66.37541	220.55695	4.01882	0.1259835	0.29315196	2.2442652	20	4 14.7	20.0
303307 2004 TG_{32}	17.4	X	125.59892	129.37519	2.18372	6.92386	0.0394136	0.29216686	2.2493071	20	6 15.7	20.3
303308 2004 TV_{38}	17.9	X	177.69857	255.29189	50.81336	1.86177	0.1919028	0.27358744	2.3500221	20	—	—
303309 2004 TV_{41}	17.2	X	237.44288	316.03918	9.75754	8.08045	0.1685792	0.28556343	2.2838504	20	3 12.9	20.6
303310 2004 TV_{43}	17.6	X	195.87296	1.40656	359.42364	2.77692	0.1817810	0.28333981	2.2957838	20	3 17.6	21.2
303311 2004 TB_{46}	14.9	X	6.11094	311.52788	219.13582	9.40513	0.0325340	0.15100439	3.4925530	20	2 28.9	19.9
303312 2004 TJ_{47}	17.7	X	100.36068	61.87764	22.69000	4.51819	0.2046189	0.27647393	2.3336368	20	4 1.8	20.4
303313 2004 TU_{50}	17.1	X	218.41851	296.96118	20.10207	6.84795	0.1352270	0.27927011	2.3180337	20	2 15.8	20.6
303314 2004 TA_{56}	17.3	X	153.44626	236.64440	174.45049	1.82617	0.2042448	0.28119944	2.3074187	20	4 13.8	20.8
303315 2004 TX_{58}	17.3	X	238.09627	134.54914	195.49000	2.47381	0.1292423	0.28776492	2.2721874	20	3 19.5	20.6
303316 2004 TB_{62}	17.6	X	235.85775	236.09856	103.53468	2.02271	0.1521048	0.28965859	2.2622735	20	3 29.5	20.9
303317 2004 TT_{73}	17.3	X	154.27425	138.77827	261.35976	3.19448	0.1355802	0.28031620	2.3122631	20	3 24.3	20.6
303318 2004 TL_{75}	17.1	X	189.19663	325.48990	34.23013	7.33112	0.1548006	0.28113073	2.3077947	20	3 12.9	20.7
303319 2004 TZ_{77}	16.9	X	33.35141	186.03465	19.26535	7.09711	0.0938815	0.29195895	2.2503748	20	5 21.7	19.0
303320 2004 TF_{80}	17.3	X	1.93520	238.11024	354.24369	7.27773	0.1017957	0.29158956	2.2522749	20	5 2.8	19.4
303321 2004 TR_{81}	17.2	X	56.30249	308.68473	204.64255	6.31459	0.0612695	0.28531338	2.2851846	20	4 9.3	19.7
303322 2004 TV_{94}	17.3	X	79.19094	42.22266	22.45406	6.74173	0.1217353	0.27168830	2.3609607	20	1 21.6	19.9
303323 2004 TZ_{94}	17.2	X	156.64212	242.34204	205.30643	6.14020	0.0534641	0.28964911	2.2623229	20	5 27.2	20.1
303324 2004 TU_{103}	17.0	X	199.81125	269.86267	9.06470	9.31587	0.2074428	0.27407659	2.3472252	20	—	—
303325 2004 TH_{105}	17.9	X	43.57923	223.40594	357.86465	4.06399	0.1144057	0.29638351	2.2279222	20	7 11.7	20.1
303326 2004 TS_{110}	17.2	X	158.27573	174.96263	216.27639	6.95074	0.2111452	0.28026535	2.3125428	20	3 22.1	20.8
303327 2004 TB_{111}	16.7	X	124.92695	275.89345	186.77010	21.50533	0.2107736	0.28285409	2.2984112	20	5 26.0	20.6
303328 2004 TO_{112}	16.6	X	203.50544	93.16548	257.70232	6.77030	0.1385619	0.28276782	2.2988787	20	3 8.3	20.3
303329 2004 TH_{119}	17.7	X	173.86288	267.70474	127.16932	6.00680	0.1706548	0.28590110	2.2820518	20	4 12.4	21.3
303330 2004 TY_{119}	17.7	X	213.45114	113.87502	266.17783	5.00836	0.1617145	0.29008391	2.2600617	20	4 26.0	21.2
303331 2004 TH_{122}	17.5	X	211.61546	349.46017	33.19880	7.18289	0.1195173	0.28980990	2.2614860	20	4 30.6	20.8
303332 2004 TQ_{123}	17.4	X	179.20074	284.47657	91.07097	3.70914	0.2434086	0.28242273	2.3007510	20	3 25.2	21.2
303333 2004 TY_{131}	16.9	X	207.63599	164.37188	178.20377	5.32188	0.2122739	0.28292840	2.2980088	20	3 4.4	20.6
303334 2004 TU_{142}	17.6	X	217.08141	357.37686	8.28320	0.44498	0.1107763	0.28796305	2.2711451	20	4 14.6	20.7
303335 2004 TF_{145}	17.3	X	112.96284	190.26629	191.71427	3.99262	0.1731000	0.27061739	2.3671853	20	1 19.0	20.2
303336 2004 TK_{157}	17.0	X	284.29279	60.53474	236.59522	6.73546	0.1258137	0.28761552	2.2729742	20	3 27.3	20.0
303337 2004 TH_{163}	16.7	X	57.27719	125.90334	46.82026	6.82548	0.0343932	0.28622427	2.2803338	20	5 6.5	19.2
303338 2004 TB_{173}	16.7	X	223.20920	40.25660	270.73756	7.26058	0.2470696	0.28134106	2.3066444	20	2 5.4	20.7
303339 2004 TP_{196}	17.4	X	193.10681	149.71286	204.10066	3.41479	0.1948136	0.28234736	2.3011604	20	3 5.6	21.1
303340 2004 TP_{203}	16.5	X	255.39122	217.51299	35.56645	7.46533	0.1227385	0.27114216	2.3641300	20	1 2.4	20.0
303341 2004 TO_{209}	17.8	X	118.86773	86.72430	22.68532	1.54687	0.1608431	0.28649997	2.2788706	20	5 21.2	20.7
303342 2004 TQ_{210}	17.9	X	326.40182	175.24002	10.72239	6.73331	0.0523292	0.27452858	2.3446481	20	1 9.5	20.8
303343 2004 TA_{213}	17.2	X	34.19782	319.54638	213.68249	3.72208	0.0629685	0.28130325	2.3068510	20	4 2.4	19.4
303344 2004 TB_{213}	16.5	X	255.29929	271.11989	33.30471	6.97888	0.2449456	0.28595658	2.2817566	20	2 27.8	20.2
303345 2004 TD_{221}	16.7	X	212.67831	238.32941	67.38501	7.50406	0.1240279	0.27915977	2.3186444	20	1 25.9	20.2
303346 2004 TB_{222}	17.0	X	198.94370	279.49817	86.28097	8.60347	0.1779917	0.28477682	2.2880541	20	3 31.2	20.8
303347 2004 TH_{249}	16.8	X	127.11695	65.79973	26.33026	10.97375	0.0725853	0.28473797	2.2882623	20	4 25.4	19.7
303348 2004 TA_{250}	16.7	X	278.02547	230.69563	28.40624	7.19625	0.0883426	0.27878300	2.3207331	20	2 9.0	19.9
303349 2004 TW_{273}	17.0	X	220.39341	320.53141	29.46932	6.04597	0.1895189	0.28522506	2.2856563	20	3 26.9	20.6
303350 2004 TE_{294}	18.1	X	89.51581	258.70774	208.80351	4.64905	0.1186084	0.27856966	2.3219178	20	4 3.7	20.7
303351 2004 TS_{295}	18.0	X	141.43233	46.06017	342.32625	1.06335	0.1943744	0.27596563	2.3365014	20	3 3.3	21.2
303352 2004 TN_{298}	17.7	X	286.88220	359.30291	208.55517	4.54080	0.0993115	0.27193029	2.3595598	20	—	—
303353 2004 TQ_{325}	16.9	X	206.29733	347.96260	20.91664	7.94795	0.1401210	0.28550530	2.2841604	20	4 7.1	20.3
303354 2004 TR_{327}	17.2	X	227.07529	193.28889	120.82685	6.98098	0.1364061	0.28478085	2.2880325	20	2 18.3	20.6
303355 2004 TU_{330}	17.0	X	148.33353	350.21187	49.29727	5.55298	0.2351108	0.27818790	2.3240416	20	3 29.5	20.7
303356 2004 TD_{334}	17.8	X	164.55394	31.51304	41.38060	6.04895	0.1295615	0.28593310	2.2818815	20	5 18.3	21.2
303357 2004 TY_{345}	17.0	X	218.21952	43.97238	278.23788	4.70866	0.1816978	0.28277618	2.2988334	20	2 16.4	20.7
303358 2004 TO_{346}	16.9	X	221.91917	344.14112	351.70976	4.25205	0.1577038	0.28384920	2.2930363	20	3 10.1	20.5
303359 2004 TM_{357}	16.8	X	161.12785	235.56881	177.00889	22.93147	0.2311775	0.28178652	2.3042128	20	4 26.7	20.9
303360 2004 TP_{359}	17.9	X	187.34017	309.46439	106.24397	1.14652	0.2022394	0.29012707	2.2598375	20	5 19.4	21.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
303361 2004 TY_{366}	17.5	X	176.30528	186.94408	212.46616	5.19119	0.1598952	0.28224489	2.3017173	20	4 17.3	21.0
303362 2004 UR_{7}	17.0	X	143.86324	135.14474	263.14325	5.73247	0.1107836	0.27770887	2.3267133	20	3 6.6	20.3
303363 2004 UQ_{9}	17.6	X	193.73328	255.96068	111.77937	6.76189	0.2402541	0.28384529	2.2930574	20	3 28.2	21.6
303364 2004 VM_{5}	17.3	X	183.47302	345.62976	18.34583	7.70441	0.1975821	0.28060666	2.3106672	20	3 13.3	21.0
303365 2004 VX_{17}	17.3	X	132.00224	220.56584	205.22639	5.01489	0.2161456	0.27904758	2.3192659	20	4 12.9	20.6
303366 2004 VK_{20}	16.4	X	17.53381	150.65085	60.55142	8.34287	0.0514762	0.28575919	2.2828073	20	5 3.1	18.7
303367 2004 VE_{23}	16.9	X	195.49169	125.82109	241.79589	2.95473	0.2342678	0.28200755	2.3030086	20	3 24.9	20.8
303368 2004 VH_{23}	16.8	X	75.69234	323.22829	67.06988	6.05603	0.2268227	0.26429274	2.4048014	20	—	—
303369 2004 VJ_{26}	17.0	X	169.12570	82.74204	294.90378	2.84195	0.1652549	0.27927166	2.3180251	20	3 12.7	20.4
303370 2004 VR_{28}	16.7	X	104.13051	76.89648	55.49566	23.84160	0.2433127	0.28033754	2.3121458	20	6 11.3	20.3
303371 2004 VT_{44}	15.8	X	299.31944	192.21551	59.49594	26.14932	0.1691048	0.27886787	2.3202622	20	2 25.2	19.5
303372 2004 VT_{51}	17.5	X	179.69569	244.63238	111.87785	3.69780	0.1889025	0.27820690	2.3239358	20	2 28.8	21.2
303373 2004 VS_{53}	17.4	X	162.22945	352.26551	61.57469	2.76941	0.0894751	0.28279216	2.2987468	20	4 19.4	20.6
303374 2004 VU_{56}	16.7	X	139.81150	168.59419	263.78528	6.05049	0.0735448	0.28155642	2.3054680	20	4 12.9	19.8
303375 2004 VA_{65}	16.3	X	338.60161	349.56748	86.27264	6.88446	0.1058773	0.25195498	2.4826800	20	—	—
303376 2004 VN_{95}	16.9	X	312.09907	323.70862	289.77964	4.99062	0.1410960	0.28182610	2.3039970	20	3 3.0	19.5
303377 2004 WZ_{1}	17.3	X	82.40404	57.37558	61.37071	10.14132	0.0497382	0.27810548	2.3245007	20	4 3.9	20.1
303378 2004 WD_{2}	17.2	X	153.32430	181.88252	220.41024	3.11029	0.1788466	0.27900881	2.3194808	20	3 30.5	20.8
303379 2004 XS	17.2	X	141.09434	111.21168	317.04167	5.37719	0.1908789	0.27920302	2.3184050	20	4 20.3	20.9
303380 2004 XW_{7}	17.1	X	75.00602	337.60228	106.17670	7.59746	0.0716354	0.26888681	2.3773314	20	2 3.8	19.7
303381 2004 XM_{9}	17.0	X	72.55374	18.34720	63.56602	7.71486	0.0856678	0.26934574	2.3746302	20	1 31.3	19.7
303382 2004 XD_{23}	16.8	X	51.29889	50.43113	81.46782	3.07583	0.1544353	0.27018595	2.3697046	20	3 14.7	18.8
303383 2004 XP_{28}	17.2	X	124.09421	131.23204	284.34935	1.46482	0.1917920	0.27332844	2.3515064	20	3 19.3	20.5
303384 2004 XH_{32}	16.8	X	87.10453	354.36423	82.12070	8.90635	0.1786155	0.27051204	2.3677998	20	3 3.4	19.6
303385 2004 XV_{32}	16.7	X	87.58573	31.24482	85.64338	7.82010	0.1304039	0.27570208	2.3379902	20	4 20.9	19.6
303386 2004 XM_{42}	16.5	X	331.59464	104.99067	62.22385	7.22140	0.0627642	0.26518655	2.3993948	20	—	—
303387 2004 XU_{42}	16.7	X	69.42907	93.31411	356.11095	4.69866	0.0868726	0.26534788	2.3984222	20	2 5.8	19.3
303388 2004 XO_{49}	17.3	X	181.97517	14.84024	13.30474	2.56658	0.2295018	0.28151505	2.3056938	20	4 9.6	21.2
303389 2004 XM_{56}	17.3	X	65.75818	95.07653	28.80360	2.56985	0.1561293	0.27120247	2.3637794	20	3 28.6	19.6
303390 2004 XW_{57}	16.4	X	356.24403	1.44542	101.88776	7.33918	0.0627915	0.25600066	2.4564541	20	—	—
303391 2004 XU_{58}	16.3	X	196.40657	160.85500	73.37971	8.35357	0.1065749	0.24742609	2.5128837	20	—	—
303392 2004 XT_{62}	17.4	X	190.09672	199.95819	172.74202	1.50656	0.2236797	0.28169681	2.3047019	20	3 28.2	21.2
303393 2004 XL_{70}	17.0	X	180.96177	353.28093	38.47797	3.77065	0.1753585	0.28134936	2.3065990	20	4 12.9	20.5
303394 2004 XV_{81}	16.6	X	145.42014	272.19893	99.71686	8.60573	0.2007769	0.26999153	2.3708420	20	2 19.3	20.2
303395 2004 XQ_{90}	16.6	X	231.73344	224.54127	70.38948	7.28763	0.1273363	0.27080225	2.3661079	20	2 1.4	20.2
303396 2004 XQ_{97}	17.5	X	41.67795	133.14022	334.62249	3.49765	0.1718084	0.26336925	2.4104197	20	1 18.5	19.4
303397 2004 XZ_{101}	17.1	X	105.05709	13.47936	91.22271	8.98744	0.2401491	0.27485669	2.3427818	20	5 12.0	20.5
303398 2004 XZ_{103}	17.4	X	137.75363	83.75223	346.69088	3.44600	0.2046797	0.27707305	2.3302715	20	4 22.5	20.9
303399 2004 XO_{105}	16.9	X	120.42917	124.12557	310.59828	5.20490	0.1406101	0.27697100	2.3308439	20	3 31.8	20.2
303400 2004 XC_{109}	16.9	X	147.69159	151.55574	248.77243	7.06014	0.1069405	0.27696612	2.3308713	20	3 12.9	20.2
303401 2004 XA_{110}	17.7	X	87.17603	93.33304	346.83199	1.84947	0.2084549	0.27187088	2.3599035	20	3 8.6	20.3
303402 2004 XG_{119}	17.5	X	57.46695	359.60412	88.13415	3.71578	0.1227419	0.26349817	2.4096335	20	1 16.9	19.8
303403 2004 XN_{119}	17.1	X	343.64684	255.72453	299.47255	3.80971	0.1491698	0.26555087	2.3971998	20	2 2.4	19.4
303404 2004 XT_{147}	16.8	X	54.80562	330.84298	125.94094	3.35011	0.1642966	0.26250754	2.4156918	20	1 28.9	18.9
303405 2004 XM_{158}	17.2	X	92.25742	345.49285	100.65166	5.57559	0.1476990	0.27018179	2.3697289	20	3 17.9	20.0
303406 2004 XX_{158}	17.1	X	10.13952	3.16629	112.05865	5.77340	0.0421881	0.25979507	2.4324772	20	—	—
303407 2004 XM_{159}	16.6	X	354.12674	262.19602	266.88133	5.87739	0.1956402	0.26300094	2.4126696	20	1 7.5	18.9
303408 2004 XM_{171}	16.6	X	230.63150	69.75504	256.91432	5.82293	0.1532529	0.28318126	2.2966406	20	3 3.8	20.2
303409 2004 XJ_{176}	16.8	X	152.81913	122.09103	273.19052	5.33479	0.1230366	0.27427527	2.3460915	20	3 14.4	20.2
303410 2004 XX_{180}	15.5	X	351.77294	235.42776	202.34658	0.69567	0.2063851	0.12604490	3.9396037	20	—	—
303411 2004 XH_{181}	17.4	X	56.26741	156.67199	318.90810	5.36875	0.2347703	0.26772927	2.3841788	20	3 7.7	19.3
303412 2004 YE_{6}	17.7	X	52.67533	184.08945	283.32808	5.15508	0.1315904	0.26509834	2.3999271	20	2 4.5	19.9
303413 2004 YK_{13}	17.2	X	323.47099	218.05325	281.64952	2.76124	0.1045195	0.25367841	2.4714228	20	—	—
303414 2004 YB_{14}	17.4	X	52.92496	205.19990	271.03251	0.36416	0.1273928	0.26606716	2.3940977	20	2 18.7	19.7
303415 2004 YF_{14}	16.9	X	297.42223	87.42917	108.02148	6.59810	0.1356302	0.25684742	2.4510523	20	—	—
303416 2004 YF_{18}	17.7	X	139.06441	147.55693	254.87714	0.60740	0.1718488	0.27155632	2.3617256	20	3 16.7	21.1
303417 2004 YH_{25}	17.2	X	101.61857	68.77568	288.93285	5.74735	0.1189425	0.25521569	2.4614884	20	—	—
303418 2005 AO	17.9	X	58.98992	332.76447	159.02607	2.84074	0.1329390	0.26955602	2.3733950	20	3 25.0	20.1
303419 2005 AV_{1}	17.0	X	80.90038	343.24031	128.14939	5.59894	0.2049790	0.26977827	2.3720913	20	4 15.2	19.7
303420 2005 AA_{4}	17.7	X	71.02513	142.00438	328.68358	5.99195	0.2032123	0.26968268	2.3726518	20	3 23.3	20.0
303421 2005 AO_{4}	16.9	X	62.74879	44.05117	70.16310	7.06153	0.0876488	0.26841308	2.3801277	20	3 3.4	19.6
303422 2005 AS_{4}	16.6	X	144.64974	81.46644	297.83491	9.92708	0.1886237	0.27012528	2.3700594	20	2 20.7	20.3
303423 2005 AN_{5}	16.9	X	68.16281	154.05351	333.58408	6.53824	0.2225060	0.26975503	2.3722275	20	4 15.2	19.4
303424 2005 AV_{5}	16.8	X	8.91622	105.36004	13.36146	3.20524	0.1373828	0.25837556	2.4413784	20	—	—
303425 2005 AZ_{5}	17.4	X	105.30149	111.38760	330.57672	4.51535	0.1994093	0.27122454	2.3636512	20	4 1.7	20.4
303426 2005 AJ_{6}	17.5	X	93.61190	256.43092	209.92976	1.63898	0.1519362	0.27272466	2.3549758	20	4 14.4	20.2
303427 2005 AQ_{6}	16.8	X	83.13452	90.25922	322.58902	14.45796	0.1445606	0.26177221	2.4202136	20	1 17.7	19.5
303428 2005 AV_{14}	17.0	X	29.19976	98.60037	25.45728	7.31441	0.1406570	0.26278055	2.4140184	20	1 18.6	19.3
303429 2005 AR_{21}	17.3	X	13.92865	91.62410	83.17866	3.40312	0.1895287	0.26568875	2.3963703	20	3 1.5	19.2
303430 2005 AV_{22}	17.3	X	60.03864	36.51380	70.97399	3.07178	0.1407214	0.26640150	2.3920942	20	2 22.2	19.5
303431 2005 AO_{31}	17.2	X	54.15273	338.53937	101.04765	2.37171	0.1849781	0.26214964	2.4178900	20	1 2.9	18.8
303432 2005 AW_{33}	16.9	X	136.19154	282.41450	130.65603	6.81784	0.1043985	0.27167933	2.3610127	20	3 22.9	20.1
303433 2005 AA_{36}	16.5	X	20.31318	308.40234	128.10330	15.18871	0.0674251	0.25325505	2.4741763	20	—	—
303434 2005 AY_{36}	17.0	X	65.06309	318.88326	154.30986	4.87680	0.2239903	0.26766184	2.3845791	20	3 23.9	19.1
303435 2005 AE_{45}	17.2	X	42.05784	124.98403	340.63678	2.68678	0.1380880	0.26105657	2.4246346	20	1 15.6	19.3
303436 2005 AH_{50}	17.3	X	67.98213	264.63936	212.70840	5.27990	0.2157602	0.26869828	2.3784432	20	3 31.6	19.7
303437 2005 AO_{51}	16.5	X	247.16549	283.13357	244.37949	4.96326	0.1456243	0.24310333	2.5425848	20	12 19.6	19.5
303438 2005 AK_{54}	17.5	X	49.02785	0.18917	117.22377	5.79099	0.2458769	0.26386266	2.4074138	20	2 29.0	19.1
303439 2005 AH_{58}	17.6	X	102.06173	78.57875	350.19445	2.33854	0.1623283	0.26850830	2.3795650	20	3 7.2	20.4
303440 2005 AR_{60}	17.0	X	78.85842	324.64666	104.77667	4.48667	0.1323534	0.26281380	2.4138148	20	1 29.6	19.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
303441 2005 AV_{60}	17.3	X	50.62011	104.48211	16.32965	0.34122	0.1576357	0.26518796	2.3993864	20	2 24.7	19.3
303442 2005 AF_{65}	17.6	X	10.35181	37.34302	133.92068	4.18972	0.1402424	0.26523186	2.3991215	20	2 18.8	19.8
303443 2005 AE_{67}	17.8	X	127.09206	181.91758	238.75068	1.32191	0.1557127	0.27150875	2.3620014	20	3 25.4	21.0
303444 2005 AA_{77}	16.9	X	195.94627	147.07505	78.75953	4.58237	0.1251370	0.24172650	2.5522303	20	—	—
303445 2005 AL_{78}	17.3	X	72.37510	22.92565	68.54681	2.97960	0.1670667	0.26467429	2.4024897	20	2 25.2	19.6
303446 2005 AR_{79}	17.8	X	26.30988	19.71907	90.62835	3.33707	0.1490173	0.25880352	2.4386863	20	—	—
303447 2005 AT_{79}	17.4	X	106.13706	94.02156	326.92146	6.40859	0.1299432	0.26572175	2.3961719	20	2 25.6	20.3
303448 2005 AD_{81}	17.3	X	328.95880	54.15186	91.11498	3.45013	0.1297485	0.25336854	2.4734374	20	—	—
303449 2005 BE_{2}	18.2	X	73.35855	162.44076	92.60958	6.57843	0.6263255	0.34429949	2.0160987	20	11 24.1	22.6
303450 2005 BY_{2}	20.5	X	217.38617	130.21514	74.47508	7.29110	0.3304443	0.68962936	1.2687972	20	—	—
303451 2005 BX_{4}	17.4	X	80.20126	52.74553	40.67737	1.84663	0.1511030	0.26744051	2.3858946	20	3 8.4	19.9
303452 2005 BL_{14}	17.4	X	15.14245	142.33783	13.31380	5.43598	0.0981397	0.26407784	2.4061059	20	2 9.3	19.9
303453 2005 BC_{18}	16.8	X	25.58887	101.88272	47.22475	5.18174	0.1314703	0.26553198	2.3973135	20	2 18.3	19.0
303454 2005 BN_{20}	17.9	X	30.10313	165.44840	340.00473	1.12017	0.1622108	0.26442907	2.4039749	20	2 19.6	19.9
303455 2005 BY_{21}	15.7	X	31.99958	68.94006	338.84409	2.35081	0.2694731	0.12408405	3.9809990	20	—	—
303456 2005 CJ_{2}	16.1	X	291.87498	284.18899	123.94059	11.48936	0.0503491	0.23016849	2.6369717	20	10 1.4	19.6
303457 2005 CU_{4}	17.4	X	36.63797	105.92214	31.67404	3.74166	0.1535555	0.26360282	2.4089957	20	2 23.3	19.4
303458 2005 CF_{8}	17.3	X	342.24311	39.08109	88.80898	4.15988	0.1377092	0.25369120	2.4713397	20	—	—
303459 2005 CF_{9}	17.3	X	320.11499	45.53840	114.00487	5.82644	0.1310191	0.25239053	2.4798230	20	—	—
303460 2005 CD_{13}	18.0	X	68.52066	114.03186	4.46762	2.35445	0.1595396	0.26722886	2.3871542	20	3 25.8	20.3
303461 2005 CR_{14}	17.3	X	128.36177	250.83119	126.58805	6.85554	0.1423718	0.26156536	2.4214893	20	1 30.5	20.6
303462 2005 CF_{17}	18.0	X	37.52383	285.48038	169.87169	2.01850	0.1808727	0.25938941	2.4350127	20	—	—
303463 2005 CO_{23}	16.4	X	57.46891	286.81001	183.33909	7.35817	0.1630025	0.26462400	2.4027941	20	2 20.9	18.8
303464 2005 CZ_{25}	17.2	X	25.66908	113.18915	44.53474	6.18274	0.1358469	0.26467479	2.4024868	20	3 3.6	19.4
303465 2005 CM_{26}	16.7	X	79.44074	59.14698	10.08324	5.21863	0.0928082	0.26162831	2.4211009	20	1 26.2	19.4
303466 2005 CZ_{30}	17.4	X	53.20363	306.55353	116.35676	4.93019	0.0962311	0.25408426	2.4687904	20	—	—
303467 2005 CV_{42}	17.6	X	113.47676	270.25310	169.89401	2.72383	0.2151110	0.27096355	2.3651688	20	4 13.6	20.8
303468 2005 CO_{43}	17.7	X	60.36214	330.33500	136.08111	2.98719	0.1569178	0.26398702	2.4066577	20	2 22.6	19.7
303469 2005 CK_{52}	16.5	X	15.45003	0.81201	150.44700	6.66596	0.0332844	0.26082588	2.4260640	20	2 4.5	19.3
303470 2005 CZ_{61}	15.9	X	295.18202	170.41419	229.60524	25.07032	0.1218492	0.21129994	2.7917068	20	8 28.7	20.1
303471 2005 CY_{62}	17.3	X	82.91228	59.13280	35.29091	2.94044	0.1515077	0.26509414	2.3999524	20	3 14.8	19.8
303472 2005 CM_{67}	16.1	X	177.40387	272.71825	324.31172	14.60399	0.1088843	0.23926730	2.5696885	20	12 30.1	20.1
303473 2005 CQ_{67}	16.2	X	304.63061	197.72517	337.07112	9.98643	0.1004993	0.25316377	2.4747710	20	—	—
303474 2005 CJ_{68}	16.2	X	260.55200	220.99986	303.73115	10.32817	0.0772396	0.24342400	2.5403513	20	—	—
303475 2005 CF_{79}	16.7	X	173.63707	230.98151	348.17073	6.23965	0.1039670	0.23520102	2.5992212	20	11 30.5	20.7
303476 2005 EO_{10}	17.5	X	283.74446	324.50546	182.52335	7.75422	0.1258659	0.24194254	2.5507109	20	—	—
303477 2005 EA_{21}	17.2	X	7.22749	72.63726	68.80884	2.32717	0.1209942	0.25682034	2.4512246	20	1 3.8	19.6
303478 2005 EO_{21}	16.8	X	283.18350	125.44983	9.16598	6.81493	0.1709949	0.24100840	2.5572976	20	12 31.2	19.4
303479 2005 EV_{28}	16.1	X	127.66643	221.68391	12.79547	11.33848	0.1849503	0.22447507	2.6813734	20	11 2.1	20.6
303480 2005 EV_{30}	17.4	X	73.74199	8.11474	84.85639	3.79595	0.1905245	0.26216988	2.4177655	20	3 5.5	19.8
303481 2005 EH_{31}	16.4	X	202.14309	220.33493	19.99609	15.46386	0.0819333	0.24370271	2.5384142	20	—	—
303482 2005 ET_{47}	15.7	X	126.92080	335.61505	348.15890	11.86440	0.1257482	0.24522638	2.5278886	20	—	—
303483 2005 EH_{50}	16.5	X	163.44253	164.57643	112.79325	3.10761	0.0503880	0.24225716	2.5485020	20	—	—
303484 2005 EZ_{51}	16.5	X	102.81430	64.35345	189.16153	10.37541	0.1113682	0.22234047	2.6985080	20	11 2.2	20.6
303485 2005 ET_{69}	16.5	X	267.27054	220.24816	315.72045	4.46529	0.1010256	0.24247296	2.5469896	20	—	—
303486 2005 EJ_{71}	16.3	X	190.97791	100.30780	121.02559	8.06025	0.1129074	0.23927391	2.5696412	20	12 23.0	20.1
303487 2005 EB_{77}	16.6	X	92.24435	56.99060	183.04460	5.31706	0.1181983	0.22095259	2.7097963	20	10 4.4	20.6
303488 2005 EB_{91}	16.7	X	243.56648	154.27015	335.34653	8.81318	0.0737471	0.23322576	2.6138764	20	10 30.6	20.3
303489 2005 EA_{101}	16.4	X	203.51882	92.02443	87.33224	5.45608	0.1088315	0.23139053	2.6276791	20	11 14.5	20.2
303490 2005 EG_{101}	16.8	X	194.57309	49.90391	166.66252	8.00213	0.1483402	0.23491373	2.6013400	20	12 16.6	20.9
303491 2005 EM_{102}	16.4	X	196.35650	337.66674	192.66015	13.91189	0.0422213	0.22630143	2.6669274	20	11 1.6	20.1
303492 2005 ER_{109}	16.2	X	65.85107	111.57079	154.62032	13.33969	0.1695140	0.22252701	2.6969997	20	10 17.9	20.2
303493 2005 EE_{119}	16.8	X	327.54193	262.72014	215.50699	7.20774	0.1629357	0.24552999	2.5258042	20	—	—
303494 2005 EL_{121}	17.0	X	219.65991	214.12957	349.86286	4.89264	0.1173330	0.23979052	2.5659491	20	—	—
303495 2005 EF_{125}	17.2	X	76.54810	121.55090	178.50559	5.31352	0.0352862	0.22804212	2.6533385	20	11 23.4	20.9
303496 2005 EA_{129}	17.3	X	195.71864	297.71999	221.91142	0.96794	0.0270161	0.22723805	2.6595940	20	10 18.0	20.7
303497 2005 EY_{130}	17.1	X	82.94540	167.73929	217.60316	1.25865	0.0217357	0.25138026	2.4864627	20	—	—
303498 2005 EN_{135}	16.5	X	173.15997	174.49377	27.50512	6.04770	0.0729118	0.22908414	2.6452864	20	11 10.1	20.3
303499 2005 EY_{135}	16.6	X	91.19262	81.67136	163.95684	13.78041	0.2995207	0.21758287	2.7377025	20	10 28.6	21.5
303500 2005 EZ_{141}	16.5	X	261.65934	358.59046	178.33225	14.57427	0.1031475	0.24287047	2.5442097	20	—	—
303501 2005 ES_{142}	15.8	X	105.30791	217.67397	27.88849	14.06924	0.1644002	0.22121259	2.7076726	20	10 27.1	20.2
303502 2005 EW_{148}	16.9	X	121.37940	146.11584	105.27567	3.41296	0.0856326	0.22632388	2.6667510	20	11 17.3	20.8
303503 2005 EP_{150}	16.8	X	205.76667	10.89549	147.42637	5.83441	0.1656778	0.22751125	2.6574645	20	10 16.3	20.9
303504 2005 ES_{151}	16.3	X	25.22336	258.37738	105.49437	3.45114	0.0787266	0.23008367	2.6376198	20	12 15.4	19.8
303505 2005 EW_{159}	16.5	X	31.98299	317.07340	358.62817	5.49911	0.1014617	0.22311441	2.6922640	20	10 23.1	19.9
303506 2005 ET_{163}	17.0	X	320.96293	130.00475	11.22727	5.53299	0.0830389	0.24602851	2.5223911	20	—	—
303507 2005 EE_{167}	16.6	X	32.29153	230.19321	180.08339	14.55517	0.0533075	0.24296129	2.5435757	20	—	—
303508 2005 EN_{167}	17.2	X	116.41402	3.61838	274.54580	0.91157	0.0262646	0.23295178	2.6159254	20	12 12.9	20.8
303509 2005 EF_{171}	16.3	X	251.98396	193.87293	317.37025	13.08151	0.1094740	0.23675281	2.5878511	20	12 8.0	19.7
303510 2005 EH_{177}	17.3	X	184.15935	261.65775	350.79360	0.37659	0.0945415	0.23650889	2.5896301	20	—	—
303511 2005 EL_{183}	17.5	X	17.09933	147.16160	358.49575	2.33430	0.1369464	0.25751074	2.4468414	20	1 26.9	19.7
303512 2005 EN_{183}	16.5	X	120.85217	252.20505	359.29788	5.29236	0.0643042	0.22771868	2.6558504	20	11 13.8	20.4
303513 2005 ET_{186}	16.7	X	278.69788	8.00323	175.17824	9.33781	0.0980687	0.24431270	2.5341871	20	—	—
303514 2005 ES_{189}	16.7	X	335.60705	13.94515	148.53518	4.85404	0.0961566	0.25273617	2.4775615	20	—	—
303515 2005 EN_{193}	17.2	X	134.95116	323.38895	325.52351	2.29388	0.0845906	0.23764967	2.5813362	20	—	—
303516 2005 EW_{196}	16.4	X	17.71057	225.32960	254.21303	7.51400	0.1471952	0.25474467	2.4645217	20	—	—
303517 2005 EV_{202}	16.9	X	148.25276	71.80434	148.81698	3.34763	0.0538339	0.22727593	2.6592985	20	11 8.2	20.7
303518 2005 ED_{205}	16.9	X	247.45693	131.03336	36.22977	5.20460	0.0662358	0.23435610	2.6054648	20	12 29.2	20.2
303519 2005 EH_{206}	16.6	X	225.83813	336.67964	201.13774	8.77672	0.1465959	0.23400755	2.6080513	20	12 3.3	20.3
303520 2005 EA_{212}	17.0	X	72.96152	10.04303	74.18719	3.78725	0.1677026	0.26085142	2.4259057	20	2 16.6	19.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
303521 2005 EP_{212}	15.7	X	74.08530	286.65825	65.37686	13.96048	0.1186083	0.23927179	2.5696564	20	—	—
303522 2005 EX_{219}	16.1	X	163.77552	307.20706	244.90742	10.21499	0.1292240	0.22629250	2.6669975	20	10 14.4	20.5
303523 2005 ER_{226}	16.9	X	104.92357	299.13341	22.94777	3.39917	0.0401039	0.24011686	2.5636237	20	—	—
303524 2005 EM_{227}	17.4	X	2.70174	46.25533	358.24649	4.27575	0.0383184	0.23590778	2.5940273	20	—	—
303525 2005 EQ_{227}	16.5	X	187.16783	122.49650	67.93873	6.25439	0.0705013	0.23026496	2.6362351	20	11 13.3	20.3
303526 2005 ED_{234}	16.7	X	53.39790	50.08896	47.83320	6.97974	0.1046966	0.25689755	2.4507334	20	1 26.4	19.3
303527 2005 EG_{234}	16.5	X	181.13278	150.27858	52.08623	7.81980	0.0869247	0.23133326	2.6281128	20	11 19.3	20.2
303528 2005 EN_{248}	17.5	X	282.65536	110.71147	0.00032	2.58076	0.0212531	0.23333186	2.6130839	20	12 8.3	20.8
303529 2005 ED_{249}	17.8	X	66.10086	122.55518	307.60341	0.43993	0.1661147	0.25579817	2.4577503	20	1 13.6	19.9
303530 2005 EW_{257}	16.8	X	162.93995	321.43169	263.22280	1.58731	0.0935549	0.22986415	2.6392987	20	11 26.9	20.9
303531 2005 EZ_{260}	16.0	X	90.46402	318.24946	11.37342	14.40537	0.1136148	0.23764818	2.5813470	20	—	—
303532 2005 EA_{265}	17.4	X	11.47822	233.22806	211.68148	3.45982	0.1083164	0.24600486	2.5225528	20	—	—
303533 2005 EM_{266}	15.5	X	285.81619	24.11240	56.60430	22.84490	0.0511544	0.22660792	2.6645221	20	11 4.2	19.0
303534 2005 ES_{266}	16.4	X	209.42633	353.21829	191.94028	13.73488	0.0415431	0.23070440	2.6328865	20	12 6.5	20.3
303535 2005 EK_{269}	16.3	X	185.38027	200.12074	13.37741	12.91976	0.1851159	0.22950810	2.6420277	20	11 26.3	20.8
303536 2005 EW_{270}	15.7	X	131.91062	343.97348	241.14242	12.22191	0.1470272	0.22317393	2.6917853	20	10 25.4	20.2
303537 2005 EM_{271}	17.2	X	73.32442	359.40718	12.50952	3.62995	0.1397789	0.24218059	2.5490391	20	—	—
303538 2005 EV_{271}	16.7	X	3.44235	217.06821	289.03070	3.00557	0.1199747	0.25452304	2.4659521	20	1 4.5	19.1
303539 2005 EF_{280}	16.9	X	313.43875	57.28896	80.20996	5.99239	0.1754278	0.24457276	2.5323904	20	—	—
303540 2005 EU_{289}	16.4	X	112.88039	318.35079	330.82364	4.10670	0.0959740	0.23551816	2.5968873	20	12 26.1	20.4
303541 2005 EQ_{312}	17.4	X	64.56247	162.44767	179.49722	8.23606	0.1357885	0.23627478	2.5913404	20	—	—
303542 2005 EE_{316}	17.5	X	1.25249	29.66951	12.66945	13.34985	0.1990639	0.23766919	2.5811949	20	—	—
303543 2005 EG_{317}	17.4	X	77.00694	63.03204	247.04686	0.80053	0.0776613	0.23178977	2.6246609	20	12 11.1	21.0
303544 2005 EJ_{318}	16.7	X	196.70469	204.08756	60.01209	23.53516	0.0690804	0.37420312	1.9072068	20	—	—
303545 2005 EQ_{324}	16.1	X	157.57709	22.67319	201.64428	12.08731	0.1021937	0.22538874	2.6741222	20	11 21.3	20.3
303546 Bourbaki	16.8	X	48.65089	266.04750	4.32016	6.43937	0.2008377	0.21527289	2.7572522	20	10 1.5	20.4
303547 2005 FY_{8}	16.5	X	161.85431	127.64417	136.08523	5.00425	0.0120651	0.24119231	2.5559974	20	—	—
303548 2005 GM	15.5	X	27.72583	104.33521	188.02372	19.90107	0.1929975	0.21236483	2.7823664	20	9 28.8	18.6
303549 2005 GN_{5}	16.8	X	359.57657	284.87999	135.82604	3.65125	0.1517205	0.23586498	2.5943411	20	—	—
303550 2005 GW_{5}	16.4	X	19.19304	303.21500	71.38209	4.86346	0.0965753	0.22862753	2.6488073	20	12 23.1	19.8
303551 2005 GG_{9}	17.8	X	347.81727	2.84283	186.43280	21.38941	0.0763255	0.38816932	1.8611809	20	1 13.9	20.0
303552 2005 GO_{12}	16.5	X	188.85081	16.09230	185.80460	15.09557	0.2050327	0.22963926	2.6410216	20	11 19.4	21.0
303553 2005 GL_{21}	16.5	X	156.88548	220.37595	16.54706	13.60240	0.1331062	0.22853190	2.6495462	20	12 1.1	20.9
303554 2005 GA_{34}	16.7	X	254.40396	336.06098	244.33491	23.42481	0.0852023	0.37472420	1.9054383	20	—	—
303555 2005 GY_{34}	18.1	X	25.65683	190.07230	301.35489	0.51746	0.1376004	0.26109203	2.4244151	20	1 20.9	20.4
303556 2005 GH_{44}	16.5	X	70.58152	359.88655	281.12283	4.42370	0.1667462	0.21998697	2.7177202	20	11 4.6	20.6
303557 2005 GU_{44}	17.2	X	61.40618	341.24715	334.80829	1.45865	0.1996196	0.22602885	2.6690710	20	12 13.9	21.2
303558 2005 GM_{47}	17.2	X	251.34587	167.07187	8.82048	6.24610	0.0331732	0.23785905	2.5798211	20	—	—
303559 2005 GT_{51}	16.5	X	2.37825	118.53864	213.62024	5.49676	0.0322972	0.21651293	2.7467143	20	9 22.8	20.1
303560 2005 GO_{53}	16.6	X	69.90767	283.78521	37.13391	6.47813	0.0459094	0.22550677	2.6731890	20	12 10.5	20.3
303561 2005 GY_{55}	16.8	X	132.14358	51.51750	192.28020	13.73916	0.0746573	0.22788173	2.6545834	20	11 20.1	20.9
303562 2005 GT_{56}	17.1	X	284.94983	97.73522	40.62614	7.74039	0.1482573	0.23748009	2.5825649	20	—	—
303563 2005 GW_{59}	17.8	X	204.75085	258.04012	21.87960	21.13791	0.0664180	0.37604743	1.9009658	20	—	—
303564 2005 GD_{65}	16.4	X	159.99823	193.54757	60.16541	14.78425	0.1305576	0.23347871	2.6119881	20	12 27.6	20.6
303565 2005 GP_{67}	16.5	X	107.73893	283.02350	23.69006	14.98272	0.0244767	0.23294138	2.6160033	20	—	—
303566 2005 GR_{77}	15.7	X	59.22297	237.50102	51.52627	14.24928	0.1654850	0.22011204	2.7166906	20	11 4.7	19.6
303567 2005 GS_{90}	16.5	X	168.89285	289.79735	300.30816	2.66423	0.1439554	0.22995210	2.6386258	20	12 6.7	20.8
303568 2005 GS_{94}	16.5	X	181.83913	227.49990	33.04853	15.75131	0.0324395	0.23758169	2.5818286	20	—	—
303569 2005 GK_{99}	16.9	X	58.89258	6.22609	295.10469	0.85875	0.1287418	0.21911976	2.7248861	20	11 12.9	20.7
303570 2005 GB_{105}	16.4	X	62.44134	262.91067	44.02779	7.98286	0.1994910	0.22120048	2.7077715	20	12 2.2	20.5
303571 2005 GB_{110}	16.4	X	186.18531	329.96126	214.21117	13.20244	0.1390213	0.22541410	2.6739216	20	10 28.6	20.3
303572 2005 GH_{110}	16.7	X	240.83409	163.06351	29.43712	10.19321	0.1399389	0.23632127	2.5910006	20	—	—
303573 2005 GC_{111}	16.4	X	105.50456	153.93581	99.30138	6.27435	0.1294698	0.22239828	2.6980403	20	11 6.5	20.6
303574 2005 GW_{116}	17.0	X	129.81745	269.66685	15.43471	2.78058	0.0879654	0.23108143	2.6300218	20	—	—
303575 2005 GL_{117}	16.5	X	74.94701	343.62514	236.26476	3.19739	0.1386555	0.21063254	2.7976007	20	8 18.9	20.5
303576 2005 GP_{123}	16.0	X	132.30638	141.37614	88.03453	8.73812	0.1192593	0.22361728	2.6882262	20	11 4.2	20.3
303577 2005 GT_{123}	15.9	X	127.29669	155.45453	79.38055	12.68556	0.1401620	0.22259746	2.6964306	20	11 7.1	20.3
303578 2005 GO_{124}	16.5	X	262.22132	156.75113	49.35168	13.92052	0.0567286	0.24615832	2.5215043	20	—	—
303579 2005 GM_{127}	16.9	X	266.74631	145.76575	16.02909	4.27220	0.1463098	0.23711078	2.5852459	20	—	—
303580 2005 GM_{131}	16.8	X	80.83394	203.13945	49.90033	5.85081	0.1186834	0.21749009	2.7384810	20	10 9.2	20.7
303581 2005 GX_{132}	17.1	X	219.28169	100.36405	66.41014	3.85000	0.0390094	0.22871743	2.6481132	20	11 24.5	20.7
303582 2005 GU_{134}	16.8	X	102.67175	221.53526	28.27626	5.05991	0.0609684	0.22018277	2.7161088	20	10 22.2	20.6
303583 2005 GP_{140}	15.9	X	74.11094	202.64524	180.49541	13.37841	0.1096543	0.24353770	2.5395606	20	—	—
303584 2005 GG_{141}	17.4	X	171.52791	279.61379	59.00782	23.16957	0.0589513	0.38027253	1.8868589	20	—	—
303585 2005 GH_{145}	16.3	X	303.31131	206.88880	257.62407	1.98229	0.0214971	0.23257285	2.6187661	20	12 28.1	19.5
303586 2005 GZ_{148}	16.1	X	38.54164	268.31443	77.47750	6.82951	0.0957229	0.22400346	2.6851356	20	12 10.5	19.6
303587 2005 GJ_{149}	16.7	X	63.77113	113.66494	162.43936	6.12771	0.0784125	0.21639249	2.7477334	20	10 12.3	20.4
303588 2005 GT_{150}	16.5	X	147.45226	143.79014	63.76724	9.55695	0.0656011	0.22050335	2.7134756	20	10 22.8	20.5
303589 2005 GM_{157}	17.5	X	301.82728	128.04968	10.07439	5.29827	0.1753047	0.24048351	2.5610173	20	—	—
303590 2005 GM_{173}	16.6	X	56.88947	120.10050	155.16122	5.07811	0.0909331	0.21612812	2.7499737	20	10 3.9	20.3
303591 2005 GK_{176}	16.3	X	85.37516	146.31272	125.20390	5.93408	0.0779082	0.21960937	2.7208346	20	11 2.7	20.2
303592 2005 GL_{176}	15.6	X	107.04441	21.32364	195.22692	15.69128	0.1727656	0.21480820	2.7612272	20	9 22.8	20.0
303593 2005 GU_{182}	16.5	X	28.86819	136.57146	178.04239	6.10960	0.0687890	0.21939443	2.7226114	20	10 14.5	20.0
303594 2005 GB_{192}	16.7	X	313.50945	76.42931	62.45504	5.56623	0.0228853	0.23887631	2.5724918	20	—	—
303595 2005 GZ_{199}	16.4	X	38.59742	208.73463	69.97460	5.39443	0.0334072	0.20978644	2.8051178	20	9 5.9	20.2
303596 2005 GP_{220}	17.0	X	80.83383	345.88381	347.22239	1.92708	0.0483750	0.23534415	2.5981673	20	—	—
303597 2005 GU_{226}	16.3	X	306.57002	156.47341	11.84794	9.28581	0.1907035	0.24490803	2.5300787	20	—	—
303598 2005 HR_{5}	16.2	X	83.78513	142.16134	101.76660	10.52698	0.1572668	0.21514771	2.7583216	20	10 8.8	20.5
303599 2005 HB_{6}	16.1	X	19.58470	219.26976	120.84243	7.23780	0.0344563	0.21805241	2.7337710	20	11 1.3	19.8
303600 2005 JP_{1}	16.2	X	212.74081	147.84907	84.02583	8.73656	0.1518503	0.23572045	2.5954015	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
303601 2005 JU_4	15.5	X	125.99760	144.55017	106.92197	15.68039	0.0574398	0.22207829	2.7006314	20	11 23.9	19.7
303602 2005 JH_8	16.6	X	17.07824	206.63522	209.30969	5.01282	0.1928068	0.23862527	2.5742956	20	—	—
303603 2005 JQ_8	16.8	X	352.68469	231.04923	209.23656	11.07881	0.0451537	0.23712701	2.5851279	20	—	—
303604 2005 JP_{19}	16.0	X	270.06951	46.21403	61.31032	22.67257	0.0481010	0.22484859	2.6784031	20	11 14.9	19.5
303605 2005 JF_{20}	16.2	X	46.23968	158.68420	112.30451	14.74725	0.1778745	0.21051663	2.7986276	20	10 2.3	20.2
303606 2005 JP_{20}	17.6	X	254.53351	168.92443	69.39818	22.43240	0.0409156	0.37555293	1.9026341	20	—	—
303607 2005 JG_{23}	16.4	X	97.45315	119.16092	207.54532	10.23356	0.0281367	0.23638370	2.5905443	20	—	—
303608 2005 JS_{23}	16.3	X	148.53332	192.43560	67.78973	10.37254	0.0848676	0.23134752	2.6280048	20	12 25.9	20.3
303609 2005 JK_{25}	16.2	X	27.46363	210.26422	219.74526	11.84120	0.2628900	0.24085940	2.5583521	20	—	—
303610 2005 JP_{27}	16.1	X	146.27929	187.43642	70.02314	12.71643	0.1564668	0.22682912	2.6627896	20	12 17.4	20.4
303611 2005 JG_{29}	16.7	X	309.95329	92.03645	191.11771	10.92165	0.0672171	0.19505501	2.9446339	20	5 2.4	20.6
303612 2005 JF_{30}	16.0	X	221.49093	273.11487	260.39065	12.40136	0.1482409	0.23214061	2.6220158	20	11 20.8	19.7
303613 2005 JN_{33}	16.0	X	92.53572	225.17442	50.26680	16.14615	0.0555513	0.22051600	2.7133718	20	11 11.4	19.8
303614 2005 JQ_{34}	17.7	X	201.60542	215.01625	66.30097	23.25595	0.0746398	0.37118156	1.9175430	20	—	—
303615 2005 JK_{42}	16.7	X	224.72626	14.57231	203.80833	5.50612	0.2149963	0.23662785	2.5887621	20	—	—
303616 2005 JV_{44}	16.8	X	126.53392	272.32261	97.79706	23.90892	0.1464605	0.37656141	1.8992356	20	—	—
303617 2005 JW_{47}	16.4	X	172.50732	329.30409	208.70019	6.66541	0.0717270	0.22011863	2.7166364	20	10 9.3	20.3
303618 2005 JP_{49}	16.1	X	331.97866	282.40024	66.15094	10.07162	0.1818874	0.20978573	2.8051241	20	9 3.3	19.1
303619 2005 JQ_{50}	17.0	X	143.54167	173.07566	85.12272	3.36340	0.0456635	0.22809404	2.6529359	20	12 18.7	20.6
303620 2005 JR_{50}	16.5	X	5.89973	244.14725	71.58074	6.16443	0.0800742	0.21244212	2.7816915	20	9 14.3	19.9
303621 2005 JA_{53}	16.4	X	36.08954	83.64444	217.53450	5.96912	0.0431060	0.21636452	2.7479702	20	9 30.0	20.0
303622 2005 JB_{54}	16.5	X	168.94664	134.84559	78.02932	10.33989	0.0738329	0.22498379	2.6773299	20	11 20.5	20.4
303623 2005 JR_{66}	15.6	X	202.40502	161.54792	34.64417	14.64640	0.1053105	0.22856473	2.6492924	20	11 29.9	19.6
303624 2005 JS_{66}	16.4	X	264.06603	235.32173	306.79283	3.16055	0.1498582	0.23807493	2.5782613	20	—	—
303625 2005 JX_{67}	16.0	X	3.88923	343.29022	49.15768	22.52662	0.0216256	0.22594570	2.6697258	20	12 10.8	19.8
303626 2005 JK_{68}	15.9	X	100.13225	194.86888	80.74254	12.79324	0.1361482	0.22172790	2.7034758	20	11 27.7	20.0
303627 2005 JU_{72}	17.1	X	302.05597	14.07194	113.11424	2.68753	0.1162387	0.23531908	2.5983518	20	—	—
303628 2005 JO_{76}	16.1	X	41.73935	57.91711	233.45895	12.60765	0.1972803	0.21202213	2.7853638	20	10 16.5	19.9
303629 2005 JG_{80}	17.1	X	197.31377	251.39795	67.93124	25.55247	0.0451394	0.38168538	1.8821997	20	1 2.5	19.4
303630 2005 JO_{81}	16.3	X	250.76164	323.98893	230.79489	12.79631	0.1067364	0.23675454	2.5878385	20	—	—
303631 2005 JK_{86}	16.6	X	23.58343	280.81153	80.98902	2.89824	0.0692968	0.22403681	2.6848692	20	12 7.6	19.8
303632 2005 JD_{90}	17.5	X	322.51308	39.30979	100.45242	2.56014	0.1000765	0.24063565	2.5599377	20	—	—
303633 2005 JZ_{92}	15.7	X	265.30106	223.93515	259.62252	10.77070	0.0259049	0.22907049	2.6453915	20	11 30.4	19.1
303634 2005 JL_{95}	17.4	X	300.35153	282.36077	271.29078	0.54597	0.1335347	0.25151205	2.4855939	20	—	—
303635 2005 JO_{100}	16.3	X	50.52119	205.67445	135.20738	7.06307	0.0336479	0.22403066	2.6849183	20	12 11.3	20.0
303636 2005 JR_{105}	16.1	X	113.33923	127.77437	83.73677	4.79445	0.0336288	0.21413701	2.7669940	20	9 15.1	20.0
303637 2005 JX_{133}	16.3	X	332.92235	249.74796	117.37314	5.58116	0.0844969	0.21424327	2.7660791	20	10 1.6	19.6
303638 2005 JZ_{139}	16.3	X	298.30494	38.33114	74.46111	15.01201	0.0739351	0.22989314	2.6390769	20	12 28.9	19.5
303639 2005 JM_{142}	16.6	X	189.63962	178.06014	60.91560	16.55857	0.1724467	0.23412174	2.6072033	20	—	—
303640 2005 JC_{145}	15.6	X	41.87264	81.17733	230.82560	10.90794	0.1232021	0.21512917	2.7584800	20	11 3.5	19.3
303641 2005 JN_{147}	15.1	X	326.90224	173.17061	112.01737	19.08663	0.2476895	0.19579939	2.9371660	20	5 13.3	18.7
303642 2005 JW_{159}	16.6	X	359.83780	292.56833	37.16755	4.10551	0.0960736	0.21374363	2.7703880	20	9 23.4	19.8
303643 2005 JM_{161}	16.2	X	29.62690	135.82631	166.86979	4.94265	0.0685211	0.21356887	2.7718991	20	9 28.4	19.6
303644 2005 JQ_{167}	16.8	X	271.22581	281.08084	259.11956	4.46819	0.2081129	0.23808783	2.5781682	20	—	—
303645 2005 JW_{176}	16.7	X	210.93397	309.09698	203.21678	10.09446	0.0656865	0.22211039	2.7003712	20	10 22.4	20.4
303646 2005 KQ_1	16.0	X	358.78419	265.83972	74.95999	13.20850	0.1758150	0.21202621	2.7853280	20	10 19.6	19.2
303647 2005 KL_2	16.6	X	248.17925	173.16126	75.10036	14.53983	0.0092079	0.24366296	2.5386902	20	—	—
303648 Mikszáth	17.6	X	349.77131	287.18197	240.12347	20.31756	0.0507220	0.37799356	1.8944353	20	—	—
303649 2005 KP_{11}	17.4	X	353.56090	290.69940	245.11382	19.49321	0.0693131	0.38205657	1.8809804	20	1 3.7	19.3
303650 2005 LO_2	15.7	X	38.75580	196.12605	107.02777	14.84562	0.0388430	0.21407000	2.7675715	20	10 14.6	19.7
303651 2005 LV_{13}	16.7	X	312.40027	322.58794	163.95487	4.93478	0.1631711	0.23580055	2.5948136	20	—	—
303652 2005 LY_{17}	16.6	X	302.76611	287.47048	231.11874	11.91403	0.2037762	0.24069197	2.5595384	20	—	—
303653 2005 LZ_{20}	17.0	X	355.67899	195.18825	145.46169	7.22938	0.1840972	0.21038367	2.7998066	20	10 9.8	19.9
303654 2005 LX_{23}	15.7	X	185.97610	234.68603	183.15965	11.21345	0.0846735	0.18096228	3.0955941	20	5 24.3	20.6
303655 2005 LC_{30}	15.9	X	78.71491	84.78135	224.90162	13.24314	0.0770941	0.22525513	2.6751794	20	12 10.9	19.8
303656 2005 LP_{35}	15.6	X	271.70007	223.25143	113.58374	16.29487	0.0091597	0.19086131	2.9876115	20	5 31.8	20.0
303657 2005 LW_{36}	16.1	X	305.03838	232.08013	126.79790	11.66438	0.0213344	0.19980283	2.8977992	20	8 9.1	19.9
303658 2005 LV_{37}	16.7	X	240.17986	343.51780	218.92966	12.73023	0.1924022	0.23573518	2.5952933	20	—	—
303659 2005 LO_{38}	16.5	X	324.86481	9.82429	135.46581	6.29823	0.2302257	0.24234722	2.5478705	20	—	—
303660 2005 LZ_{44}	15.7	X	340.38291	172.51709	205.53535	12.80314	0.1387155	0.21484568	2.7609061	20	10 28.8	18.5
303661 2005 LF_{49}	16.4	X	331.16470	86.67308	233.81660	11.22731	0.1778010	0.20174843	2.8791388	20	7 11.3	19.6
303662 2005 LV_{52}	15.8	X	267.67565	233.70509	115.04191	8.66334	0.2562316	0.18824376	3.0152430	20	5 8.0	20.6
303663 2005 MN_2	15.9	X	217.99648	336.43235	244.71104	10.57121	0.1990302	0.23317836	2.6142305	20	—	—
303664 2005 MY_{11}	15.9	X	349.01296	158.28132	232.52539	12.43955	0.1377710	0.21912425	2.7248489	20	12 1.5	18.9
303665 2005 ML_{14}	15.6	X	263.35594	33.55252	273.78061	9.49815	0.1077399	0.18185705	3.0854318	20	3 23.5	20.3
303666 2005 MB_{15}	15.7	X	229.98666	142.19923	289.19242	9.72708	0.0964179	0.19440289	2.9512154	20	7 25.1	20.0
303667 2005 MA_{18}	15.8	X	295.92599	39.73023	293.15415	8.94982	0.1067029	0.19110894	2.9850301	20	6 9.8	19.9
303668 2005 MH_{34}	15.9	X	312.55040	200.29981	132.48935	9.76235	0.0956223	0.19295271	2.9659840	20	7 6.3	19.7
303669 2005 MD_{36}	16.1	X	255.74022	337.59530	38.41565	2.11334	0.1446243	0.18955218	3.0013515	20	6 8.4	20.6
303670 2005 MU_{37}	16.6	X	239.71717	76.26304	269.27619	2.43552	0.1348735	0.18227961	3.0806615	20	4 14.9	21.4
303671 2005 MS_{38}	16.7	X	236.71713	166.88617	170.28971	1.20150	0.1536922	0.18019929	3.1043261	20	4 1.9	21.4
303672 2005 MO_{40}	16.1	X	230.14189	236.81206	144.77315	10.48441	0.1176618	0.18710011	3.0275176	20	5 24.4	20.9
303673 2005 MV_{40}	16.2	X	326.59967	162.56982	144.27360	9.21268	0.0647798	0.19378530	2.9574823	20	6 26.3	20.1
303674 2005 MV_{41}	16.0	X	252.14675	264.85407	110.96726	10.50725	0.1746719	0.18875026	3.0098465	20	6 2.5	20.6
303675 2005 MA_{47}	15.7	X	274.38464	18.77578	305.13032	12.18084	0.1412258	0.18595117	3.0399756	20	4 20.2	20.4
303676 2005 MW_{50}	16.1	X	304.58412	46.07134	309.12385	10.85376	0.0384346	0.19620591	2.9331075	20	7 31.9	19.8
303677 2005 MH_{53}	16.4	X	248.62282	58.77815	278.07931	1.87485	0.2336295	0.18120881	3.0927858	20	4 4.7	21.4
303678 2005 MH_{54}	15.5	X	211.64066	252.24466	126.11886	16.36537	0.2865500	0.17902548	3.1178806	20	4 29.2	21.3
303679 2005 NA_5	16.7	X	258.40427	210.89860	149.01740	0.77240	0.1507538	0.18800475	3.0177980	20	5 21.7	21.0
303680 2005 NP_6	16.0	X	100.97694	333.21062	279.17363	6.54184	0.1224372	0.21059695	2.7979159	20	10 24.9	20.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
303681 2005 NL_{18}	16.3	X	63.97119	334.33506	290.01186	6.42765	0.0822625	0.20467759	2.8516038	20	9 20.9	20.3
303682 2005 NG_{28}	15.6	X	289.75277	154.17965	141.31872	10.42245	0.0591214	0.18411659	3.0601362	20	4 25.2	20.0
303683 2005 NA_{30}	16.1	X	222.02434	243.68338	139.59386	2.05869	0.2072770	0.18450251	3.0558676	20	5 10.5	21.3
303684 2005 NO_{37}	16.3	X	276.36764	188.26094	144.11802	11.32419	0.1557437	0.18655049	3.0334612	20	5 10.8	20.8
303685 2005 NH_{44}	15.8	X	321.20871	4.23901	289.04442	8.92865	0.0884832	0.19072714	2.9890125	20	5 27.1	19.7
303686 2005 NN_{60}	15.3	X	262.52387	174.60220	149.17780	18.21594	0.2167413	0.18054389	3.1003747	20	4 9.0	20.4
303687 2005 NN_{64}	16.3	X	235.25020	87.07700	241.68977	3.59009	0.1307252	0.17943929	3.1130853	20	3 21.5	21.3
303688 2005 NY_{65}	15.8	X	276.34194	337.76358	297.81659	8.26376	0.0587928	0.17793079	3.1306557	20	3 7.7	20.4
303689 2005 NJ_{67}	15.4	X	233.64970	74.65119	278.33546	15.36858	0.2350470	0.17845242	3.1245520	20	4 5.2	21.0
303690 2005 NO_{74}	16.2	X	28.12875	353.55971	295.15043	5.06476	0.0278949	0.20221968	2.8746641	20	8 29.1	20.0
303691 2005 NA_{77}	15.7	X	254.30013	50.25437	247.64271	9.47134	0.1562320	0.17857626	3.1231073	20	2 27.6	20.8
303692 2005 NH_{77}	16.0	X	232.82911	195.46910	169.12642	12.03233	0.1072538	0.18397842	3.0616682	20	5 7.4	20.8
303693 2005 NT_{80}	15.9	X	217.78880	110.34011	228.75270	12.36076	0.1192980	0.17883921	3.1200452	20	3 15.2	21.0
303694 2005 NG_{111}	16.5	X	22.57729	120.05824	121.85848	3.90805	0.1494639	0.19538353	2.9413322	20	7 2.3	19.7
303695 2005 OL_{8}	15.5	X	324.43244	334.60927	279.66722	10.07275	0.0463080	0.18376271	3.0640637	20	4 11.8	19.8
303696 2005 OH_{12}	15.7	X	221.67389	278.16724	86.78565	3.51640	0.1573500	0.17845189	3.1245582	20	4 21.9	20.7
303697 2005 OJ_{16}	16.5	X	263.61350	75.38205	281.72961	3.33509	0.1934948	0.18572838	3.0424062	20	5 17.9	21.1
303698 2005 OP_{18}	16.0	X	226.10753	48.03233	320.00515	8.84047	0.0761327	0.17988571	3.1079327	20	4 30.5	20.9
303699 2005 OX_{22}	16.2	X	287.06700	317.22627	327.27989	0.44009	0.1590144	0.18100926	3.0950585	20	3 20.9	20.7
303700 2005 OJ_{24}	16.2	X	267.89583	189.57328	172.43987	8.98253	0.1040063	0.18806845	3.0171165	20	6 11.6	20.6
303701 2005 OX_{26}	15.4	X	292.50053	259.80657	50.06636	21.76910	0.2328798	0.18634681	3.0356713	20	4 22.6	19.7
303702 2005 OE_{27}	16.1	X	138.04792	347.81363	292.48085	13.00840	0.0945775	0.21843854	2.7305483	20	—	—
303703 2005 OO_{27}	16.4	X	296.78985	65.99303	243.71804	4.09271	0.2383072	0.18545962	3.0453448	20	4 20.7	20.7
303704 2005 OS_{28}	16.0	X	240.26388	211.91393	170.15950	9.67762	0.1068372	0.18416693	3.0595786	20	6 4.7	20.7
303705 2005 OX_{28}	15.9	X	290.90048	21.05197	324.89366	9.44417	0.1127801	0.19123296	2.9837394	20	6 19.6	20.1
303706 2005 OZ_{30}	16.1	X	247.10629	13.02751	294.72928	8.17869	0.1723705	0.17746037	3.1361859	20	3 3.1	21.2
303707 2005 PX	16.3	X	258.25079	309.32108	19.96002	5.50074	0.1777091	0.18201240	3.0836759	20	4 10.7	21.2
303708 2005 PK_{1}	16.2	X	222.30984	15.39163	327.29904	13.75880	0.1930317	0.17701851	3.1414026	20	3 19.3	21.6
303709 2005 PL_{9}	16.3	X	281.22842	204.30022	133.33481	6.22820	0.1505163	0.18692602	3.0293971	20	5 22.2	20.5
303710 Velpeau	15.9	X	163.34655	93.07300	319.93019	5.71433	0.0681348	0.17876430	3.1209168	20	4 19.7	20.7
303711 2005 PW_{17}	16.6	X	331.72960	82.94170	221.60078	4.02444	0.2240848	0.19262744	2.9693219	20	6 15.9	19.6
303712 2005 PR_{21}	6.2	X	53.91768	312.38258	339.02531	1.33341	0.1084398	0.00333098	44.4039142	20	9 19.2	22.4
303713 2005 PV_{21}	16.0	X	337.11251	325.11501	343.85155	5.87119	0.1317635	0.19296285	2.9658801	20	7 12.9	19.4
303714 2005 QT_{2}	15.6	X	329.14193	13.07884	243.80832	7.39958	0.1255087	0.18417375	3.0595031	20	4 15.7	19.5
303715 2005 QY_{2}	16.0	X	246.77487	195.20262	156.63006	9.98087	0.1638296	0.18239684	3.0793414	20	5 1.0	20.9
303716 2005 QU_{3}	15.6	X	266.43191	17.53627	342.33718	10.49133	0.1228262	0.18531244	3.0469570	20	6 1.7	20.1
303717 2005 QV_{8}	15.9	X	211.04151	30.94779	323.28321	4.13150	0.2283710	0.17415327	3.1757645	20	3 26.1	21.4
303718 2005 QL_{12}	16.2	X	293.41058	133.71535	171.62900	8.37473	0.1762458	0.18471077	3.0535702	20	4 23.2	20.4
303719 2005 QM_{13}	15.5	X	207.59595	212.48703	167.66608	17.56131	0.2257041	0.17690901	3.1426988	20	4 27.4	21.1
303720 2005 QA_{15}	15.7	X	324.37536	301.86957	335.35916	10.21839	0.0572979	0.18336127	3.0685343	20	5 11.1	19.9
303721 2005 QW_{15}	15.8	X	33.79509	41.84968	159.83600	10.21206	0.0280173	0.18104478	3.0946536	20	5 17.7	20.2
303722 2005 QO_{16}	15.9	X	341.61745	263.83730	353.81429	14.22207	0.2194505	0.18484821	3.0520564	20	4 23.8	19.3
303723 2005 QX_{16}	15.9	X	251.27309	356.55104	357.68412	8.76948	0.0472553	0.18064008	3.0992740	20	5 16.5	20.5
303724 2005 QB_{24}	15.9	X	213.91118	221.27091	163.99235	9.83058	0.0449446	0.17806547	3.1290769	20	5 16.8	20.6
303725 2005 QK_{34}	15.4	X	194.08274	190.32939	162.78913	16.54429	0.1110818	0.17163839	3.2067105	20	3 15.1	20.4
303726 2005 QE_{35}	15.4	X	205.10647	25.14174	351.01360	21.80809	0.2092914	0.17515947	3.1635907	20	4 9.4	21.1
303727 2005 QO_{38}	15.7	X	238.61542	16.71343	338.43253	11.97271	0.1157356	0.18077181	3.0977682	20	4 23.0	20.6
303728 2005 QY_{38}	15.7	X	133.12086	152.31452	328.90681	10.64965	0.0562905	0.18357506	3.0661514	20	6 11.1	20.3
303729 2005 QM_{43}	15.7	X	268.34450	23.32858	306.40116	10.34240	0.1267073	0.18189968	3.0849498	20	4 23.6	20.4
303730 2005 QO_{50}	15.8	X	196.79210	306.16865	76.30981	3.69414	0.2068182	0.17364513	3.1819570	20	4 19.9	21.3
303731 2005 QD_{54}	16.1	X	280.13779	57.66540	185.17467	4.61439	0.0824402	0.16902866	3.2396330	20	2 2.6	20.8
303732 2005 QF_{54}	15.6	X	96.23576	138.85165	335.03609	13.90052	0.0810450	0.17452840	3.1712123	20	4 15.9	20.3
303733 2005 QV_{57}	15.6	X	231.67162	282.62902	21.80762	15.31129	0.2439095	0.17337304	3.1852854	20	2 21.7	21.3
303734 2005 QP_{62}	16.1	X	190.34026	57.47765	354.92894	9.57896	0.1460857	0.17897980	3.1184111	20	5 16.5	21.3
303735 2005 QV_{64}	15.6	X	175.98833	57.84973	2.79335	9.05575	0.0645208	0.17889136	3.1194388	20	5 12.5	20.4
303736 2005 QH_{65}	15.7	X	220.66612	218.96612	146.79010	9.00736	0.0647639	0.17644898	3.1481587	20	4 29.7	20.5
303737 2005 QR_{66}	15.9	X	228.25182	290.95725	54.99138	2.16896	0.2208466	0.17575730	3.1564128	20	4 1.3	21.1
303738 2005 QJ_{68}	15.9	X	261.91888	324.93106	5.25147	9.52880	0.2169034	0.18239310	3.0793836	20	4 9.7	20.8
303739 2005 QX_{68}	15.4	X	304.76157	255.98604	73.30011	9.71511	0.1016681	0.18893731	3.0078597	20	6 18.5	19.3
303740 2005 QQ_{79}	15.0	X	239.52848	9.27273	322.08483	14.04422	0.1978995	0.17628309	3.1501334	20	3 19.6	20.4
303741 2005 QB_{83}	15.8	X	294.77007	0.14831	329.07839	7.03033	0.1551053	0.18554088	3.0444556	20	5 25.3	20.0
303742 2005 QW_{86}	15.9	X	239.16874	340.16539	336.23055	10.83261	0.0600461	0.17495881	3.1660091	20	3 15.9	20.6
303743 2005 QZ_{86}	15.5	X	245.41593	150.60153	198.24285	16.67749	0.2436433	0.17935102	3.1141067	20	4 16.9	20.6
303744 2005 QH_{89}	17.1	X	357.18730	315.39674	194.67995	21.81672	0.0620445	0.36473709	1.9400642	20	—	—
303745 2005 QB_{92}	15.9	X	191.95842	266.97960	169.83201	16.28580	0.3838386	0.17718823	3.1393962	20	6 15.7	22.1
303746 2005 QD_{97}	15.4	X	216.33605	240.39150	151.68024	20.18193	0.2892708	0.17927530	3.1149834	20	5 16.9	21.3
303747 2005 QH_{97}	15.6	X	235.04956	300.78523	39.08972	4.67590	0.1873007	0.17787471	3.1313137	20	4 2.2	20.6
303748 2005 QG_{101}	15.9	X	207.08316	168.30582	205.70011	4.48768	0.1367341	0.17649845	3.1475704	20	4 19.1	21.0
303749 2005 QT_{103}	15.7	X	183.26141	205.70814	175.77235	10.85501	0.1040028	0.17336630	3.1853679	20	4 7.5	20.7
303750 2005 QH_{105}	16.1	X	262.50758	343.58417	16.12858	5.73375	0.1585551	0.18490104	3.0514749	20	5 23.7	20.6
303751 2005 QV_{105}	15.8	X	258.11819	233.44998	121.63879	6.03582	0.1756254	0.18324652	3.0698151	20	5 14.2	20.5
303752 2005 QE_{119}	16.7	X	46.33954	222.31064	18.38293	1.45302	0.0133367	0.19069033	2.9893971	20	7 20.9	20.6
303753 2005 QG_{123}	16.5	X	331.06837	335.59623	316.51998	1.76817	0.1471681	0.18777499	3.0202593	20	6 5.1	20.0
303754 2005 QJ_{125}	16.6	X	236.90366	242.72397	82.34475	0.14108	0.1747382	0.17567702	3.1573743	20	3 17.5	21.7
303755 2005 QP_{126}	16.2	X	156.84048	72.79994	4.98201	0.95201	0.1545657	0.17682826	3.1436554	20	5 19.6	21.3
303756 2005 QE_{127}	16.1	X	239.72894	190.15563	162.60815	11.33344	0.0978833	0.17968795	3.1102127	20	5 1.5	20.9
303757 2005 QF_{127}	16.2	X	316.33140	301.82191	348.40557	5.19887	0.0157099	0.18271898	3.0757211	20	5 23.9	20.5
303758 2005 QU_{129}	15.1	X	220.44346	23.59348	4.65647	11.41799	0.1003946	0.18055169	3.1002854	20	5 17.9	20.0
303759 2005 QG_{135}	16.7	X	314.91454	213.58685	77.86942	1.21396	0.2145380	0.18469930	3.0536966	20	4 28.3	20.4
303760 2005 QS_{140}	16.2	X	129.52646	297.91229	166.14458	9.14890	0.0522289	0.17909953	3.1170212	20	5 18.4	20.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
303761 2005 QH_{148}	15.9	X	240.59836	246.87445	112.16519	10.59335	0.2592572	0.18172989	3.0868709	20	4 27.5	21.2
303762 2005 QQ_{148}	15.4	X	198.44300	250.43169	139.25856	26.31578	0.3275333	0.17496002	3.1659946	20	5 4.6	21.7
303763 2005 QD_{158}	15.9	X	324.26600	210.47869	100.83348	4.98601	0.1151709	0.18721588	3.0262694	20	6 23.5	19.5
303764 2005 QS_{160}	15.6	X	196.73074	251.75457	156.17111	10.96286	0.0379774	0.17880260	3.1204711	20	5 25.6	20.3
303765 2005 QP_{163}	15.9	X	237.58705	193.08770	152.27391	12.23429	0.0980910	0.17649554	3.1476050	20	4 20.9	20.8
303766 2005 QG_{168}	15.6	X	280.87178	39.93924	282.78183	8.65391	0.1384007	0.18376236	3.0640676	20	4 29.9	20.2
303767 2005 QJ_{169}	15.2	X	240.11007	213.62429	109.45664	10.14893	0.0817576	0.17426330	3.1744276	20	3 30.4	20.1
303768 2005 QL_{171}	15.9	X	220.21192	52.37696	310.90743	7.83789	0.0970360	0.17530022	3.1618972	20	4 17.1	20.9
303769 2005 QD_{172}	15.7	X	193.78410	196.73179	197.82323	9.77314	0.2415457	0.17366114	3.1817614	20	5 1.1	21.2
303770 2005 QR_{172}	15.9	X	244.93124	29.24372	301.25394	4.86159	0.1675798	0.17550185	3.1594750	20	3 29.2	21.0
303771 2005 QB_{173}	15.5	X	245.28713	349.41827	346.38238	8.64638	0.0884447	0.17495229	3.1660879	20	4 11.8	20.2
303772 2005 QS_{173}	16.0	X	245.30692	135.44279	196.20666	9.62384	0.2329182	0.17757827	3.1347975	20	3 27.4	21.2
303773 2005 QK_{174}	15.4	X	278.83435	129.12267	215.40982	9.85023	0.0786800	0.18531784	3.0468978	20	6 6.3	19.7
303774 2005 QG_{180}	15.7	X	191.59065	57.24699	356.99635	15.52561	0.2740511	0.17728530	3.1382502	20	5 15.8	21.5
303775 2005 QU_{182}	3.6	X	14.50381	224.20876	78.28638	14.04584	0.6753237	0.00081485	113.5231994	20	10 18.8	20.9
303776 2005 QM_{183}	16.0	X	314.14432	151.02227	134.30546	13.08670	0.1709527	0.18609036	3.0384596	20	4 30.8	20.1
303777 2005 QW_{187}	15.6	X	170.16100	67.03192	348.90908	26.34034	0.1495884	0.17634759	3.1493652	20	4 22.2	21.1
303778 2005 QR_{188}	16.3	X	213.92023	71.26282	325.69934	3.94733	0.1542261	0.17929539	3.1147507	20	5 21.1	21.3
303779 2005 QU_{189}	16.1	X	65.03255	194.86980	11.78850	2.86521	0.0128314	0.18569073	3.0428175	20	6 30.6	20.2
303780 2005 QU_{190}	15.7	X	241.91880	327.61601	30.69259	5.50831	0.1613233	0.18029345	3.1032451	20	4 30.9	20.7
303781 2005 RP	16.1	X	211.19394	212.60737	158.65420	6.00050	0.1791299	0.17757412	3.1348465	20	4 19.7	21.3
303782 2005 RU_{12}	16.5	X	237.12233	268.48803	8.56519	1.95417	0.1970333	0.16968564	3.2312655	20	1 22.8	21.7
303783 2005 RT_{20}	15.6	X	263.51166	122.64590	223.39456	14.82975	0.1186183	0.18008455	3.1056446	20	5 14.6	20.0
303784 2005 RU_{22}	15.0	X	262.15108	353.34868	319.12373	11.87542	0.1330455	0.17806357	3.1290992	20	3 25.2	19.9
303785 2005 RM_{33}	15.3	X	196.80542	270.49188	127.79092	15.23296	0.2235025	0.17453525	3.1711293	20	5 12.1	21.0
303786 2005 RP_{34}	16.2	X	178.89482	204.02553	211.96132	9.78022	0.0306501	0.18048396	3.1010610	20	5 13.1	20.6
303787 2005 RB_{41}	15.5	X	180.48550	238.45630	160.67417	9.90280	0.1032756	0.17495849	3.1660131	20	4 27.1	20.5
303788 2005 RS_{42}	16.1	X	185.00135	49.69729	31.01573	3.75564	0.0914627	0.18057942	3.0999681	20	6 18.7	21.0
303789 2005 RA_{44}	15.6	X	257.12403	69.86797	256.85349	13.25739	0.2157452	0.17774251	3.1328662	20	3 28.6	20.9
303790 2005 RZ_{47}	15.7	X	15.02717	211.98999	37.28208	13.45347	0.0168665	0.18145907	3.0899415	20	6 18.3	20.2
303791 2005 SX_{3}	16.5	X	235.57164	201.52245	178.80019	8.69352	0.0727138	0.17919831	3.1158756	20	5 31.8	21.2
303792 2005 SG_{9}	15.9	X	189.87472	270.45329	117.55420	11.10248	0.2222355	0.17379594	3.1801160	20	4 24.4	21.5
303793 2005 SQ_{24}	15.2	X	291.00544	270.03162	26.59895	16.74907	0.1869763	0.18002474	3.1063323	20	4 7.8	19.6
303794 2005 SW_{24}	15.8	X	186.22651	28.39110	28.80960	15.13575	0.2798151	0.17463673	3.1699007	20	5 17.5	21.6
303795 2005 SR_{28}	16.2	X	263.18242	107.56877	220.13634	8.44512	0.0843489	0.17592961	3.1543515	20	4 25.3	20.7
303796 2005 SS_{28}	16.0	X	184.78360	197.36128	218.13236	8.96459	0.0873413	0.17490646	3.1666409	20	5 19.0	20.9
303797 2005 SL_{29}	15.9	X	199.26656	33.71960	339.27513	4.41338	0.1728294	0.17150100	3.2084229	20	4 8.8	21.3
303798 2005 SJ_{30}	15.8	X	228.91407	213.85882	119.87045	2.91166	0.1972587	0.17168078	3.2061826	20	3 20.7	21.2
303799 2005 SO_{39}	15.1	X	309.11486	249.73246	14.58267	16.11412	0.2047663	0.17645221	3.1481203	20	3 20.9	19.3
303800 2005 SC_{40}	15.9	X	263.37071	89.36257	192.45165	4.39711	0.0984987	0.16845744	3.2469524	20	2 28.1	20.8
303801 2005 SU_{41}	16.2	X	191.52527	39.09991	359.04969	10.32151	0.0952104	0.17320578	3.1873356	20	4 30.7	21.3
303802 2005 ST_{42}	15.5	X	90.27267	278.99378	209.13663	15.99118	0.0786104	0.16981918	3.2295714	20	5 3.7	20.0
303803 2005 SP_{44}	16.0	X	230.79979	100.68700	253.32621	2.81645	0.1492662	0.17396607	3.1780423	20	4 15.8	21.0
303804 2005 SD_{45}	16.1	X	250.86997	77.22580	269.71040	2.18623	0.1063937	0.17607913	3.1525656	20	5 1.9	20.7
303805 2005 SB_{50}	16.5	X	143.54529	265.10079	192.63607	1.80084	0.1896010	0.17083816	3.2167166	20	6 3.0	21.7
303806 2005 SY_{50}	15.8	X	5.25360	216.20352	22.18316	15.94862	0.0499218	0.17621540	3.1509401	20	5 19.3	20.2
303807 2005 SU_{58}	15.1	X	261.51265	267.18110	16.70321	11.11798	0.2088404	0.17058805	3.2198599	20	2 22.7	20.3
303808 2005 SR_{60}	15.3	X	159.85164	33.00360	18.35496	33.18624	0.0679088	0.16957566	3.2326626	20	4 13.2	20.2
303809 2005 SW_{64}	15.6	X	222.69742	22.51165	336.35387	8.72172	0.1023704	0.17499767	3.1655405	20	4 14.1	20.6
303810 2005 SE_{66}	15.0	X	211.24775	151.54247	212.21577	15.31596	0.1413724	0.17285398	3.1916588	20	4 9.7	20.2
303811 2005 SS_{67}	15.6	X	220.10969	40.86316	1.23888	9.20649	0.0532760	0.18078510	3.0976163	20	6 9.9	20.4
303812 2005 SY_{74}	16.2	X	200.48910	218.69945	185.36235	8.10867	0.1816846	0.17643939	3.1482728	20	5 19.0	21.5
303813 2005 SD_{77}	16.3	X	216.90056	23.05073	13.53654	10.30050	0.0152689	0.17969158	3.1101707	20	6 1.3	20.8
303814 2005 SH_{77}	16.6	X	223.32504	211.07915	154.30491	1.77183	0.1702458	0.17566838	3.1574780	20	4 22.6	21.6
303815 2005 SE_{81}	16.6	X	287.15150	279.74472	20.90868	3.28891	0.1896156	0.17975544	3.1094341	20	4 5.9	21.0
303816 2005 SQ_{81}	16.1	X	74.96375	349.00934	179.42602	12.34782	0.0982890	0.17757179	3.1348738	20	6 7.4	20.6
303817 2005 SS_{82}	15.7	X	220.60899	167.58738	195.58625	12.63549	0.1020964	0.17439860	3.1727855	20	4 21.9	20.5
303818 2005 SS_{89}	16.0	X	79.42088	156.76225	355.62868	3.04715	0.0212343	0.17257622	3.1950825	20	5 10.4	20.6
303819 2005 SS_{94}	15.2	X	258.15160	103.60608	252.40631	15.30730	0.1224179	0.18210970	3.0825774	20	5 19.5	19.8
303820 2005 SX_{100}	15.8	X	139.83441	110.05076	4.69730	13.43322	0.2449623	0.17167423	3.2062642	20	6 23.1	21.5
303821 2005 SQ_{103}	15.0	X	257.83998	328.12632	22.37241	11.51101	0.1118963	0.17774438	3.1328442	20	5 11.5	19.6
303822 2005 ST_{109}	15.4	X	329.11549	266.59406	15.97750	10.54789	0.0717495	0.17924825	3.1152968	20	5 24.9	19.6
303823 2005 SJ_{111}	15.7	X	210.43406	197.62142	213.11174	10.27191	0.1051258	0.18026607	3.1035593	20	6 7.7	20.6
303824 2005 SG_{112}	15.6	X	241.43098	122.59037	233.40656	10.69920	0.1219644	0.17766535	3.1337732	20	5 1.2	20.3
303825 2005 SX_{113}	15.6	X	170.30960	67.74620	6.60556	11.04474	0.1654324	0.17496864	3.1658907	20	5 25.3	21.0
303826 2005 SB_{118}	15.3	X	279.24349	271.81684	31.03618	11.27234	0.1476892	0.17775101	3.1327663	20	4 6.9	19.8
303827 2005 SU_{119}	15.1	X	228.91307	152.65722	242.48255	17.31087	0.1876190	0.18380798	3.0635606	20	5 31.5	19.9
303828 2005 SX_{120}	16.1	X	86.57849	339.34191	188.76297	9.46133	0.0975640	0.17909845	3.1170338	20	6 20.6	20.6
303829 2005 SO_{123}	16.2	X	261.93991	87.07962	260.41552	3.55712	0.1291545	0.18057565	3.1000111	20	5 12.3	20.6
303830 2005 SY_{123}	15.0	X	142.96029	4.06297	23.81987	15.77471	0.0416336	0.16421623	3.3026204	20	3 6.5	20.0
303831 2005 SJ_{127}	16.0	X	148.82684	242.93279	190.33640	7.82409	0.0425141	0.17250982	3.1959023	20	4 30.9	20.7
303832 2005 SB_{130}	15.6	X	252.24729	119.36823	197.12916	13.00337	0.2838112	0.17544358	3.1601745	20	3 10.4	21.1
303833 2005 ST_{139}	16.0	X	216.57868	351.61894	41.26622	3.67716	0.0906355	0.17790211	3.1309922	20	5 23.3	20.7
303834 2005 SY_{145}	15.5	X	207.19012	352.52773	16.60932	24.53527	0.0793249	0.17280099	3.1923112	20	4 12.8	20.3
303835 2005 SM_{147}	16.2	X	135.35136	275.58809	186.00907	4.60679	0.1112136	0.17167337	3.2062749	20	5 26.0	21.1
303836 2005 SZ_{156}	15.9	X	137.27876	87.51205	30.00480	9.58533	0.0233923	0.17748948	3.1358429	20	6 7.3	20.5
303837 2005 SF_{162}	16.4	X	278.04490	113.50836	200.11307	7.27556	0.1825251	0.17842951	3.1248195	20	4 12.4	20.8
303838 2005 SS_{162}	15.9	X	200.47662	175.07252	198.35867	14.65051	0.1644590	0.17177082	3.2050621	20	4 12.2	21.0
303839 2005 SO_{164}	15.0	X	233.79570	300.02789	56.64292	13.95231	0.1242123	0.17346706	3.1841342	20	4 27.5	20.0
303840 2005 ST_{168}	16.4	X	171.74903	194.99312	219.84177	8.41840	0.1226237	0.17310166	3.1886136	20	5 5.3	21.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
303841 2005 SS_{170}	15.2	X	238.38988	137.18188	200.25022	14.26623	0.0641287	0.17547164	3.1598375	20	4 11.7	19.7
303842 2005 SJ_{171}	16.1	X	342.06074	292.55802	347.03499	5.75961	0.0480564	0.18198256	3.0840130	20	6 12.9	20.2
303843 2005 SO_{172}	16.3	X	301.52999	215.39870	47.76987	1.36960	0.1055555	0.17301460	3.1896832	20	3 21.5	20.8
303844 2005 SM_{175}	15.8	X	216.03021	124.52015	214.03134	13.09835	0.0214913	0.16825902	3.2495045	20	3 19.5	20.7
303845 2005 SV_{176}	16.0	X	225.74093	144.36364	239.30326	3.72859	0.0953622	0.17781627	3.1319997	20	5 21.7	20.5
303846 2005 SW_{182}	16.2	X	101.91736	125.71091	10.25540	11.25632	0.0296000	0.17397527	3.1779303	20	5 16.9	20.9
303847 2005 SH_{189}	16.0	X	107.55717	73.21801	49.74170	2.09048	0.1414481	0.16973543	3.2306337	20	5 25.1	20.8
303848 2005 SS_{189}	15.8	X	186.94423	44.57764	20.62962	5.90598	0.0698504	0.17597283	3.1538351	20	5 31.9	20.5
303849 2005 SH_{192}	16.5	X	258.64140	177.16040	142.51857	1.25407	0.2372913	0.17464537	3.1697962	20	3 25.7	21.5
303850 2005 SR_{193}	15.3	X	98.11521	17.47250	23.28009	11.06499	0.1098263	0.15438721	3.4413473	20	2 7.2	20.3
303851 2005 SP_{196}	15.7	X	224.43681	20.65490	15.24109	10.97129	0.0787479	0.18029023	3.1032820	20	6 3.8	20.5
303852 2005 SQ_{196}	16.3	X	167.27643	48.22454	22.33305	3.70006	0.0948766	0.17510352	3.1642646	20	5 18.3	21.2
303853 2005 SN_{200}	16.0	X	258.23076	287.82141	29.66150	5.59055	0.2242759	0.17623009	3.1507650	20	3 24.8	21.0
303854 2005 SS_{202}	16.4	X	186.24259	225.63194	183.30043	9.13388	0.1149229	0.17564638	3.1577415	20	5 13.5	21.4
303855 2005 SC_{205}	15.3	X	243.10043	318.24048	40.58021	10.18543	0.1455139	0.17802374	3.1295659	20	5 4.4	20.1
303856 2005 SA_{210}	15.5	X	272.68183	60.28878	252.55024	5.27023	0.1307888	0.17762973	3.1341921	20	4 10.2	20.2
303857 2005 SC_{226}	15.2	X	110.94995	87.92844	9.35591	21.65179	0.0194470	0.17061206	3.2195578	20	4 8.4	19.9
303858 2005 SJ_{228}	16.1	X	180.31213	201.88003	183.92491	8.99002	0.0754493	0.17167751	3.2062235	20	4 8.7	21.0
303859 2005 SZ_{231}	15.4	X	229.25997	58.21350	257.57622	10.93629	0.1101336	0.16911439	3.2385380	20	2 27.9	20.7
303860 2005 SQ_{240}	15.5	X	151.51066	245.34660	230.07384	10.43713	0.0700293	0.17826610	3.1267287	20	6 25.1	20.3
303861 2005 SQ_{250}	15.8	X	212.09585	281.20466	94.14195	4.19487	0.2069354	0.17615804	3.1516240	20	4 24.1	21.1
303862 2005 SE_{256}	15.4	X	192.03432	54.52492	354.93315	10.73372	0.0172586	0.17913063	3.1166604	20	5 16.5	20.0
303863 2005 SF_{257}	16.0	X	299.16639	292.90056	30.08862	9.94365	0.0785991	0.18312857	3.0711331	20	6 3.8	20.2
303864 2005 SU_{268}	15.8	X	258.95226	121.52692	213.96026	25.85584	0.2089936	0.17912060	3.1167768	20	4 15.0	20.7
303865 2005 SZ_{268}	14.8	X	70.73670	190.46889	4.07911	16.69106	0.0795728	0.18016353	3.1047368	20	7 4.1	19.4
303866 2005 SA_{272}	16.0	X	292.22877	128.74031	201.06820	14.57631	0.0480749	0.18110296	3.0939908	20	6 9.5	20.5
303867 2005 SZ_{285}	16.1	X	83.51971	142.93009	63.73076	11.46717	0.0202839	0.18422459	3.0589402	20	7 28.1	20.5
303868 2005 SJ_{286}	16.5	X	170.03692	336.27055	92.50993	2.58164	0.1444421	0.17448895	3.1716902	20	5 21.1	21.5
303869 2005 SF_{291}	15.2	X	190.79612	149.79822	228.56698	19.18297	0.0807532	0.17166362	3.2063964	20	4 6.8	20.3
303870 2005 SG_{293}	16.0	X	216.28996	42.14487	309.34456	4.11746	0.1444200	0.17369015	3.1814072	20	3 29.8	21.2
303871 2005 TE_{7}	15.5	X	264.26050	104.44168	234.13421	15.50278	0.1307658	0.17782779	3.1318645	20	5 3.6	20.1
303872 2005 TB_{10}	15.3	X	176.03813	102.59607	307.46316	9.41753	0.0247438	0.17327840	3.1864450	20	4 27.7	20.1
303873 2005 TC_{12}	15.7	X	242.23332	317.29068	31.68519	16.36785	0.0892718	0.17400653	3.1775497	20	4 26.5	20.4
303874 2005 TC_{14}	15.6	X	149.84402	237.47168	199.55063	11.54637	0.0361996	0.17473070	3.1687640	20	5 6.2	20.2
303875 2005 TG_{14}	15.6	X	170.21513	237.75467	212.03477	9.52196	0.0356896	0.18056630	3.1001182	20	6 13.9	20.2
303876 2005 TF_{19}	16.2	X	48.70924	197.14675	352.95133	4.83827	0.0684985	0.17744827	3.1363284	20	5 23.6	20.4
303877 2005 TQ_{19}	16.3	X	188.30424	196.43158	201.69692	3.63611	0.1839209	0.17339495	3.1850170	20	4 30.8	21.7
303878 2005 TW_{34}	16.1	X	226.15801	17.05442	26.12110	8.12450	0.0714896	0.18163777	3.0879145	20	6 17.1	20.8
303879 2005 TV_{41}	15.7	X	266.35469	89.36677	249.01281	10.05804	0.1457877	0.18215726	3.0820409	20	5 2.9	20.2
303880 2005 TM_{42}	16.0	X	234.88528	202.05485	160.72077	10.33846	0.0979893	0.17753689	3.1352847	20	5 8.4	20.9
303881 2005 TL_{60}	16.0	X	357.80676	0.30847	268.65038	4.28895	0.1454185	0.18532132	3.0468597	20	6 23.0	19.3
303882 2005 TZ_{60}	15.9	X	316.23614	269.67404	348.53339	8.73708	0.0693508	0.17432652	3.1736601	20	4 5.6	20.2
303883 2005 TB_{69}	16.0	X	225.74760	353.76183	16.25637	9.99419	0.0217577	0.17722541	3.1389571	20	5 8.6	20.6
303884 2005 TY_{69}	15.8	X	236.38632	137.29969	215.99002	15.86979	0.1138045	0.17461805	3.1701267	20	4 23.9	20.6
303885 2005 TG_{71}	15.6	X	287.89947	84.14759	231.20158	14.26513	0.0849994	0.17868705	3.1218162	20	5 10.3	20.0
303886 2005 TJ_{71}	15.6	X	257.51345	0.39267	309.55406	9.46993	0.0646062	0.17145088	3.2090482	20	3 26.2	20.4
303887 2005 TV_{79}	15.5	X	208.10463	163.49628	239.26906	10.72504	0.0760058	0.17696679	3.1420146	20	5 27.8	20.3
303888 2005 TT_{87}	15.8	X	187.78423	62.76173	19.74299	10.02199	0.0659907	0.18066296	3.0990124	20	6 24.6	20.6
303889 2005 TK_{89}	15.5	X	63.57729	143.57501	19.74390	15.40756	0.0084322	0.17528562	3.1620728	20	4 29.7	20.1
303890 2005 TL_{90}	16.2	X	272.01957	141.96665	161.91762	11.10332	0.0743816	0.17483527	3.1675005	20	4 10.6	20.8
303891 2005 TB_{96}	16.1	X	54.84046	167.26082	359.33962	5.35021	0.0926172	0.16876473	3.2430098	20	5 4.8	20.4
303892 2005 TY_{98}	15.8	X	16.88040	224.01931	343.26580	5.51270	0.1131841	0.17398530	3.1778081	20	4 30.3	19.8
303893 2005 TP_{100}	16.0	X	330.19533	304.90644	318.75871	5.10169	0.0593215	0.17507287	3.1646339	20	5 3.6	20.2
303894 2005 TB_{102}	15.9	X	208.15268	125.40203	252.81973	3.75178	0.0325769	0.17195666	3.2027526	20	4 28.9	20.6
303895 2005 TT_{103}	15.3	X	180.44431	181.86202	240.58969	8.06049	0.0757466	0.17454289	3.1710367	20	5 22.5	20.0
303896 2005 TD_{111}	16.0	X	173.97820	165.39810	246.78569	3.38949	0.1308502	0.17239335	3.1973417	20	5 3.8	21.0
303897 2005 TH_{111}	16.4	X	262.50559	349.33847	335.92353	4.14905	0.1282241	0.17652747	3.1472254	20	4 14.6	21.1
303898 2005 TY_{113}	15.5	X	260.61060	264.24533	14.71126	24.89166	0.2730455	0.17127008	3.2113062	20	2 18.6	21.2
303899 2005 TJ_{121}	15.8	X	167.51664	41.76241	33.00815	9.32726	0.0671325	0.17455033	3.1709467	20	5 22.1	20.6
303900 2005 TA_{128}	16.3	X	105.12489	140.94476	14.52299	5.72491	0.0487296	0.17784689	3.1316402	20	6 20.5	20.8
303901 2005 TY_{137}	16.0	X	158.96759	243.18033	188.11663	7.92371	0.1823337	0.17222480	3.1994274	20	5 16.5	21.3
303902 2005 TJ_{142}	16.0	X	168.46853	23.81156	45.48782	9.76368	0.0320482	0.17416102	3.1756703	20	5 16.1	20.6
303903 2005 TN_{144}	15.6	X	281.75975	264.81985	46.97299	10.25044	0.1837563	0.17786547	3.1314221	20	4 16.4	20.1
303904 2005 TF_{151}	16.4	X	152.47689	45.30474	58.72970	6.11499	0.0434858	0.17747718	3.1359878	20	6 10.9	20.9
303905 2005 TV_{152}	15.0	X	240.73464	128.56202	245.88525	9.49867	0.1404912	0.17967362	3.1103780	20	5 21.7	19.6
303906 2005 TY_{156}	16.1	X	308.23218	49.27839	219.08405	7.41275	0.1132682	0.17399967	3.1776333	20	4 2.7	20.3
303907 2005 TW_{162}	15.6	X	108.49565	305.77987	213.95703	15.12929	0.1952503	0.17571545	3.1569139	20	7 13.2	20.8
303908 2005 TL_{167}	16.1	X	103.44362	313.49047	214.51370	12.23722	0.1335414	0.17699201	3.1417161	20	7 12.4	21.0
303909 Tomknops	15.8	X	8.32651	33.88865	218.91515	9.55334	0.0394140	0.18121859	3.0926745	20	6 15.7	20.0
303910 2005 TL_{175}	16.0	X	132.05097	69.34811	49.14315	5.28855	0.1344635	0.17267209	3.1938998	20	6 13.2	20.9
303911 2005 UB_{22}	15.2	X	31.06821	324.57312	228.11572	10.83913	0.0377011	0.16980944	3.2296949	20	4 30.3	19.7
303912 2005 UC_{22}	16.6	X	123.30633	197.13007	229.08638	8.80705	0.1318656	0.16228572	3.3287602	20	3 31.2	21.8
303913 2005 UL_{25}	15.6	X	286.44575	264.24329	39.52427	16.70116	0.0758763	0.17269958	3.1935608	20	4 26.1	20.0
303914 2005 UJ_{72}	15.4	X	204.73000	51.17421	323.38442	9.86259	0.0913199	0.17029530	3.2235490	20	4 14.5	20.5
303915 2005 UQ_{81}	15.5	X	258.37238	295.89231	34.60985	12.75560	0.1624436	0.17648591	3.1477195	20	4 15.6	20.3
303916 2005 UH_{122}	18.0	X	275.57420	89.27092	225.27859	1.85448	0.1922472	0.31007617	2.1618412	20	3 31.6	21.0
303917 2005 UM_{124}	15.2	X	338.06364	35.17990	231.10168	12.39498	0.0686884	0.17328665	3.1863438	20	5 20.0	19.4
303918 2005 UR_{193}	16.4	X	141.10672	49.87305	63.98922	1.87028	0.1274210	0.17413147	3.1760295	20	6 16.3	21.4
303919 2005 UO_{194}	15.8	X	93.76461	295.35116	206.83310	12.53241	0.0692289	0.17114440	3.2128782	20	5 24.5	20.4
303920 2005 UK_{201}	18.5	X	355.06646	93.03332	210.61431	3.73184	0.2052745	0.32213172	2.1075621	20	9 4.3	19.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
303921 2005 UY_{207}	16.4	X	291.68156	239.91025	62.70963	2.85945	0.0306024	0.17287030	3.1914579	20	5 7.5	20.8
303922 2005 UM_{269}	16.5	X	99.42549	101.18168	56.33205	1.76971	0.0652585	0.17616801	3.1515051	20	6 18.4	21.0
303923 2005 UY_{276}	15.0	X	243.96186	292.15506	38.81922	17.20768	0.1082988	0.16995777	3.2278155	20	4 10.0	20.0
303924 2005 UG_{283}	16.0	X	257.06620	271.43261	48.26600	15.13952	0.2207382	0.17367689	3.1815691	20	3 31.7	21.2
303925 2005 UW_{298}	15.0	X	84.00761	53.31943	55.33400	6.96667	0.0338822	0.16066598	3.3510951	20	3 29.3	19.7
303926 2005 UX_{387}	15.2	X	7.97599	197.51715	45.41899	15.36561	0.0441384	0.17606326	3.1527550	20	5 31.1	19.4
303927 2005 UV_{392}	16.4	X	168.46763	344.44542	119.01617	2.15603	0.1370480	0.17810011	3.1286712	20	6 30.3	21.3
303928 2005 UP_{439}	15.3	X	253.45853	323.95156	335.49582	15.00679	0.2487651	0.17276909	3.1927042	20	2 25.7	20.6
303929 2005 UQ_{496}	15.5	X	235.82162	304.62359	45.91601	11.36083	0.1775101	0.17545760	3.1600061	20	4 17.3	20.6
303930 2005 UZ_{503}	17.2	X	321.57629	197.69139	11.34507	2.17291	0.1074099	0.27441493	2.3452954	20	1 24.9	19.8
303931 2005 UN_{516}	17.0	X	175.70230	345.13343	117.46337	2.50567	0.1528810	0.18002612	3.1063165	20	7 6.1	22.1
303932 2005 UZ_{528}	16.1	X	112.83739	78.18580	33.99982	4.22216	0.0486303	0.16952788	3.2332699	20	5 6.0	20.7
303933 2005 VQ	19.0	X	212.99415	184.21914	54.43408	19.13027	0.4887058	0.82544439	1.1254966	20	—	—
303934 2005 VF_{62}	15.6	X	175.96996	221.89683	201.54517	15.68686	0.1117893	0.17577537	3.1561965	20	5 20.6	20.7
303935 2005 VV_{119}	16.4	X	9.87907	237.03590	335.36911	5.05987	0.1439250	0.28747900	2.2736937	20	4 16.7	18.3
303936 2005 VY_{126}	16.4	X	341.25526	217.09242	35.28514	4.97671	0.1053498	0.17853153	3.1236288	20	5 3.2	20.1
303937 2005 VS_{128}	16.2	X	201.81533	182.18142	182.13925	9.83812	0.0839351	0.17049167	3.2210732	20	4 5.1	21.1
303938 2005 VS_{131}	16.1	X	266.70891	239.32241	74.90736	11.21437	0.1147626	0.17366076	3.1817662	20	4 14.3	20.9
303939 2005 WO_{23}	15.9	X	169.64288	282.00945	51.31743	10.39342	0.1362328	0.15376860	3.4505707	20	2 4.0	21.5
303940 2005 WE_{40}	17.8	X	278.63838	290.15962	71.76384	5.03426	0.0747109	0.31230096	2.1515619	20	7 5.3	20.0
303941 2005 WZ_{84}	17.2	X	80.47406	212.22882	276.10575	8.06598	0.0549147	0.29353361	2.2423195	20	4 4.4	19.9
303942 2005 WF_{85}	15.1	X	337.90683	189.44679	37.52608	20.16388	0.0726548	0.16860479	3.2450603	20	4 5.6	19.5
303943 2005 WL_{141}	17.2	X	347.56089	321.74548	250.62061	5.89688	0.1774578	0.29292025	2.2454486	20	2 22.3	19.2
303944 2005 WY_{182}	15.1	X	105.90727	89.01519	63.45155	33.06545	0.2429018	0.16827358	3.2493171	20	7 6.5	20.7
303945 2005 WH_{204}	17.7	X	100.94032	23.35334	127.68457	2.82143	0.0774763	0.29744001	2.2226434	20	6 16.1	20.3
303946 2005 XR_{28}	16.5	X	182.01690	353.43851	104.37176	25.73758	0.2609535	0.30555533	2.1831126	20	7 8.0	20.2
303947 2005 XZ_{85}	17.6	X	123.01813	193.17437	333.26464	2.47882	0.0714037	0.30820753	2.1705705	20	8 7.7	20.4
303948 2005 XZ_{109}	17.2	X	193.66047	139.00344	149.80977	2.39763	0.2048114	0.26522389	2.3991696	20	—	—
303949 2005 XT_{114}	17.3	X	64.98245	137.68169	4.27300	3.58492	0.1397040	0.28449757	2.2895511	20	4 18.1	19.6
303950 2005 YK_{18}	17.5	X	349.57482	46.64583	251.26536	3.53927	0.2126797	0.31697887	2.1303412	20	8 6.3	18.4
303951 2005 YN_{21}	17.4	X	202.99456	150.15391	291.13897	5.52348	0.0880420	0.30797819	2.1716479	20	7 14.8	20.1
303952 2005 YR_{40}	18.1	X	240.89652	156.20824	253.40379	2.03030	0.0977561	0.30977127	2.1632595	20	7 16.6	20.7
303953 2005 YB_{52}	17.7	X	6.88756	292.08212	312.07010	3.92615	0.1254943	0.29685155	2.2255798	20	6 5.3	19.4
303954 2005 YF_{54}	17.5	X	256.87491	246.47375	120.78364	4.44740	0.1705758	0.30626078	2.1797589	20	5 27.1	20.3
303955 2005 YS_{66}	18.0	X	42.58116	71.93638	104.42014	1.58008	0.1486121	0.29011410	2.2599049	20	5 2.7	19.7
303956 2005 YZ_{67}	18.1	X	174.82787	44.47118	353.02409	1.90535	0.1299990	0.29627948	2.2284437	20	4 11.3	21.1
303957 2005 YD_{83}	17.7	X	351.21644	95.31474	131.70652	5.01936	0.0758521	0.29234249	2.2484061	20	4 11.6	19.9
303958 2005 YB_{132}	17.3	X	354.77474	317.37595	294.60721	4.63992	0.1181247	0.29594898	2.2301024	20	5 22.3	19.1
303959 2005 YW_{195}	17.0	X	114.83087	144.08784	345.09728	27.85043	0.2982495	0.29513659	2.2341930	20	7 2.9	21.3
303960 2005 YF_{242}	17.6	X	88.24483	99.03288	73.03865	8.16857	0.0342690	0.30233293	2.1985976	20	6 21.9	20.0
303961 2005 YN_{259}	18.5	X	253.69568	61.28309	285.13318	2.20605	0.1955194	0.30463365	2.1875138	20	4 19.2	21.7
303962 2005 YD_{291}	17.5	X	317.03295	142.51314	116.59570	3.97826	0.1487104	0.29043722	2.2582284	20	3 21.0	20.0
303963 2006 AR_{10}	16.9	X	193.56502	338.62032	73.41793	6.44425	0.1382490	0.30020494	2.2089751	20	5 21.5	19.9
303964 2006 AJ_{16}	15.0	X	223.69399	137.82508	322.56657	26.75642	0.1043881	0.17528413	3.1620907	20	8 19.9	19.7
303965 2006 AL_{18}	17.3	X	86.66628	201.54110	296.49193	4.77256	0.1091334	0.29202713	2.2500245	20	5 10.6	20.0
303966 2006 AE_{40}	17.5	X	228.05293	342.01510	325.01986	3.08347	0.2158608	0.28385641	2.2929975	20	2 7.2	21.3
303967 2006 AY_{47}	17.6	X	7.01173	289.26431	314.60728	2.91022	0.1089828	0.29780697	2.2208172	20	6 4.5	19.4
303968 2006 AP_{63}	16.8	X	7.96510	211.02868	331.75934	6.48109	0.1318548	0.28396724	2.2924008	20	2 27.6	18.8
303969 2006 AH_{80}	17.6	X	186.58666	331.01510	123.55846	3.46043	0.1019529	0.30493878	2.1860543	20	7 12.8	20.4
303970 2006 AD_{88}	17.8	X	324.45028	316.78405	264.22202	6.86415	0.0640259	0.29118150	2.2543786	20	2 14.7	20.5
303971 2006 AK_{102}	16.8	X	295.71650	51.53652	152.94886	11.51007	0.0560998	0.26996649	2.3709887	20	—	—
303972 2006 BN_{5}	17.3	X	152.75343	241.33931	228.39908	4.63640	0.1047102	0.30188517	2.2007710	20	6 24.8	20.3
303973 2006 BW_{10}	16.9	X	287.70666	105.83790	122.44053	2.95203	0.1584248	0.27566057	2.3382249	20	—	—
303974 2006 BF_{22}	16.9	X	250.09836	125.74654	123.05989	2.81372	0.2043508	0.27163650	2.3612608	20	—	—
303975 2006 BD_{45}	17.3	X	328.87543	252.54772	323.85170	6.70746	0.0617577	0.28086363	2.3092576	20	2 19.6	20.0
303976 2006 BF_{45}	16.9	X	53.41191	212.27178	321.21993	4.54883	0.0288637	0.28981052	2.2614828	20	4 28.4	19.6
303977 2006 BD_{47}	17.3	X	61.07535	160.12466	30.58333	0.13825	0.1272200	0.29385782	2.2406699	20	6 24.6	19.6
303978 2006 BW_{67}	17.7	X	245.01479	226.14024	115.06957	7.08954	0.1657001	0.29496416	2.2350636	20	4 11.3	21.0
303979 2006 BA_{73}	16.9	X	247.81913	246.10030	343.17601	8.62637	0.2060228	0.26672079	2.3901847	20	—	—
303980 2006 BA_{74}	17.5	X	244.27428	179.27622	96.77986	4.92087	0.1527194	0.27721311	2.3294865	20	1 17.5	21.0
303981 2006 BK_{80}	16.8	X	252.73047	205.63703	48.65548	4.58401	0.0512973	0.27255450	2.3559558	20	1 5.6	19.9
303982 2006 BR_{91}	18.1	X	228.66527	224.78188	188.36395	1.10508	0.0972763	0.30304538	2.1951504	20	7 5.2	20.8
303983 2006 BB_{93}	17.2	X	166.88716	292.02080	147.64032	6.93409	0.0705544	0.29549792	2.2323713	20	5 30.5	20.3
303984 2006 BL_{99}	17.9	X	151.78302	349.82142	123.00466	3.06212	0.0870092	0.29878983	2.2159443	20	6 27.3	20.9
303985 2006 BT_{108}	17.9	X	235.53142	243.99221	2.25790	2.65473	0.1413071	0.26963733	2.3729179	20	—	—
303986 2006 BN_{116}	17.2	X	149.88516	330.97713	303.80111	1.99900	0.1213615	0.25716185	2.4490540	20	—	—
303987 2006 BH_{117}	17.6	X	75.52448	206.95520	316.70845	2.58757	0.0797740	0.29245434	2.2478328	20	5 28.1	20.1
303988 2006 BT_{120}	17.6	X	60.82453	345.94763	163.30712	5.51284	0.0242261	0.28771876	2.2724304	20	4 7.5	20.1
303989 2006 BD_{132}	17.5	X	297.58079	282.00276	328.33422	5.09670	0.1442752	0.27952572	2.3166204	20	2 10.8	20.6
303990 2006 BQ_{146}	18.2	X	160.95336	10.80941	57.05867	2.37030	0.1234214	0.29579683	2.2308671	20	5 7.9	21.4
303991 2006 BD_{153}	17.3	X	288.17800	282.78026	334.57896	4.79600	0.1260033	0.28140651	2.3062867	20	2 11.1	20.1
303992 2006 BX_{155}	17.5	X	112.46366	57.09229	125.41270	3.18355	0.0779600	0.30258298	2.1973862	20	8 17.6	20.3
303993 2006 BN_{165}	17.2	X	216.29057	189.58496	140.11580	5.12422	0.1664706	0.28198605	2.3031257	20	2 26.7	20.8
303994 2006 BN_{168}	17.1	X	221.40301	357.36007	284.92195	1.50931	0.2018108	0.26938119	2.3744218	20	1 4.6	20.9
303995 2006 BO_{168}	16.6	X	228.65405	332.69129	328.11547	6.79922	0.1240627	0.27655328	2.3331904	20	2 3.9	19.9
303996 2006 BY_{176}	17.8	X	269.85046	195.67573	43.59355	3.56182	0.1276681	0.27470617	2.3436375	20	—	—
303997 2006 BK_{178}	16.9	X	257.70817	196.58045	104.64087	4.58152	0.2119949	0.28676827	2.2774490	20	2 26.8	20.4
303998 2006 BT_{194}	18.0	X	44.31661	19.70435	176.19756	3.29111	0.0904387	0.29272457	2.2464492	20	5 29.1	20.2
303999 2006 BQ_{211}	13.3	X	352.49252	254.15963	348.49923	18.46732	0.0436936	0.08158667	5.2648973	20	5 6.3	20.3
304000 2006 BV_{229}	17.8	X	229.33378	306.73186	71.06451	3.50570	0.1630793	0.30047063	2.2076727	20	5 10.9	21.1