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		°	°	°	°		°				
244001 2001 SE_{39}	16.3	X	0.86992	268.74717	150.65521	4.26315	0.2168933	0.21557067	2.7547124	20	—	—
244002 2001 SC_{41}	16.4	X	61.55504	191.74427	151.56957	4.17058	0.2008443	0.21680663	2.7442332	20	—	—
244003 2001 SC_{45}	16.0	X	47.72317	337.77587	45.08662	5.26825	0.1453802	0.21962214	2.7207291	20	—	—
244004 2001 SV_{52}	16.0	X	57.78555	152.06188	186.25189	12.65696	0.0831546	0.21456030	2.7633537	20	12 20.5	20.1
244005 2001 SH_{59}	16.9	X	231.43158	303.22078	40.08073	5.81634	0.1840180	0.29423701	2.2387444	20	3 28.6	20.3
244006 2001 SB_{66}	15.0	X	89.86305	245.86100	198.75003	26.06086	0.2359847	0.17658591	3.1465310	20	3 30.5	19.6
244007 2001 SW_{77}	18.0	X	6.25554	131.27314	170.16776	3.96479	0.1928466	0.31160295	2.1547738	20	9 25.4	19.5
244008 2001 SE_{89}	17.0	X	15.41201	217.54166	209.90322	3.59066	0.1558535	0.27445219	2.3450832	20	—	—
244009 2001 SQ_{92}	15.8	X	162.26896	358.93203	345.41373	7.98273	0.0882910	0.18100235	3.0951372	20	2 2.3	20.5
244010 2001 SN_{98}	15.1	X	67.65046	190.91858	181.75009	18.84010	0.0755626	0.17030768	3.2233927	20	—	—
244011 2001 SH_{105}	16.5	X	63.40169	148.41460	226.47408	5.87101	0.1283247	0.27296946	2.3535676	20	—	—
244012 2001 SU_{114}	17.4	X	210.91972	210.54523	197.45220	4.82902	0.1426001	0.29881775	2.2158063	20	6 3.2	20.6
244013 2001 SY_{114}	15.3	X	194.39976	334.87394	24.27858	9.61091	0.1386305	0.18515820	3.0486489	20	3 22.8	20.2
244014 2001 SB_{117}	15.4	X	51.79897	212.36884	221.67767	8.35269	0.2078130	0.17475424	3.1684795	20	1 15.7	19.0
244015 2001 SQ_{119}	16.0	X	53.97393	17.97857	290.47108	4.48363	0.1786929	0.21395489	2.7685640	20	11 21.1	19.9
244016 2001 SD_{121}	16.1	X	42.81342	354.85244	321.00751	7.27344	0.2112133	0.21326347	2.7745447	20	11 20.5	20.0
244017 2001 SX_{121}	15.9	X	38.60441	66.16218	247.81689	5.11266	0.1270714	0.21158480	2.7892006	20	11 1.1	19.5
244018 2001 SL_{123}	15.2	X	161.87360	94.25248	204.42536	8.53522	0.1462385	0.17632982	3.1495768	20	—	—
244019 2001 SP_{131}	16.7	X	7.81975	109.04866	224.71784	1.29039	0.1717789	0.20929696	2.8094897	20	10 18.1	19.6
244020 2001 SY_{134}	16.1	X	177.53484	182.73468	189.60524	8.33166	0.0638074	0.18562950	3.0434866	20	3 17.8	20.7
244021 2001 SN_{146}	15.7	X	109.14812	180.23126	190.08885	23.54301	0.1260685	0.17518733	3.1632553	20	1 7.5	20.7
244022 2001 SS_{146}	15.8	X	6.33041	305.88523	102.50495	3.85492	0.0753632	0.21756871	2.7378213	20	—	—
244023 2001 SS_{150}	17.4	X	87.35926	67.68797	325.95914	3.50976	0.1931530	0.27897884	2.3196469	20	—	—
244024 2001 SK_{151}	17.4	X	330.13193	351.01453	340.78933	2.37336	0.1996918	0.30835817	2.1698635	20	8 14.8	18.3
244025 2001 SV_{162}	17.3	X	139.91797	9.02271	1.54159	2.65818	0.1549174	0.28400753	2.2921840	20	2 3.3	20.2
244026 2001 SF_{165}	15.7	X	45.69851	320.01907	24.45188	13.63002	0.1547046	0.21256033	2.7806601	20	12 22.5	19.9
244027 2001 SQ_{174}	17.3	X	132.21800	319.81045	24.76476	7.28362	0.1414315	0.28091746	2.3089626	20	—	—
244028 2001 SC_{180}	15.1	X	129.66997	3.17624	333.68494	15.67516	0.0840619	0.17771881	3.1331447	20	—	—
244029 2001 SC_{210}	16.2	X	151.99089	356.79726	14.54106	7.50504	0.1386289	0.18194630	3.0844227	20	2 27.9	21.1
244030 2001 SH_{215}	16.3	X	6.31224	204.31719	144.33612	7.24230	0.2298327	0.21034740	2.8001285	20	11 16.4	19.4
244031 2001 SX_{216}	16.1	X	352.25657	100.91326	177.05673	11.19748	0.0704882	0.19858003	2.9096829	20	6 26.2	20.0
244032 2001 SW_{218}	17.3	X	243.99149	278.21083	20.85729	3.89591	0.1605024	0.29235041	2.2483655	20	2 14.1	20.6
244033 2001 SG_{237}	16.9	X	55.55164	19.28034	42.92588	9.26327	0.1871379	0.27701991	2.3305695	20	—	—
244034 2001 SN_{238}	16.8	X	83.24177	253.26381	91.32291	3.08096	0.2416030	0.27326046	2.3518964	20	—	—
244035 2001 SZ_{240}	17.4	X	31.77136	329.87177	58.43801	2.62019	0.1955072	0.27009314	2.3702474	20	—	—
244036 2001 SW_{242}	16.7	X	0.34635	204.37089	152.10870	3.39079	0.1615828	0.20888319	2.8131986	20	11 5.3	19.8
244037 2001 SG_{258}	15.8	X	90.43065	288.45139	179.84964	20.26792	0.1093260	0.18692901	3.0293648	20	4 14.0	20.1
244038 2001 SU_{275}	16.7	X	342.56987	318.23310	100.39104	7.33728	0.2454465	0.26327967	2.4109665	20	—	—
244039 2001 ST_{288}	16.7	X	10.70000	183.98741	247.33492	6.08526	0.2369231	0.27130826	2.3631649	20	—	—
244040 2001 SL_{298}	16.1	X	153.38871	29.90366	348.29380	8.67308	0.1517036	0.18356451	3.0662689	20	3 6.7	20.9
244041 2001 SD_{328}	15.5	X	237.00460	305.93109	29.88702	10.18154	0.0434724	0.19018021	2.9947403	20	4 10.2	19.9
244042 2001 SQ_{333}	15.4	X	279.90435	227.73291	15.86256	9.78565	0.0376361	0.18115993	3.0933421	20	2 12.4	19.9
244043 2001 SZ_{335}	16.4	X	270.17627	300.68998	328.15071	2.13405	0.0976719	0.18765140	3.0215852	20	2 19.2	20.9
244044 2001 SV_{344}	15.4	X	169.16390	284.34469	90.56077	16.94218	0.2387982	0.18423124	3.0588666	20	3 28.6	21.0
244045 2001 SH_{348}	15.5	X	100.62071	172.73336	247.33562	9.13064	0.0709405	0.18021231	3.1041765	20	2 15.9	20.0
244046 2001 SU_{354}	15.2	X	212.76796	74.75208	254.70520	10.04737	0.0543510	0.18351618	3.0668072	20	2 29.0	20.0
244047 2001 TK_{6}	15.5	X	252.77326	279.10807	45.12109	10.35777	0.1040151	0.18910715	3.0060584	20	4 9.3	20.0
244048 2001 TB_{9}	16.6	X	143.23894	64.03706	335.97903	5.50979	0.1523982	0.28568177	2.2832197	20	3 14.1	19.7
244049 2001 TL_{13}	17.2	X	344.56639	90.34183	227.94636	5.33720	0.3422486	0.31010520	2.1617063	20	9 18.9	17.3
244050 2001 TV_{25}	16.9	X	193.05516	67.61914	256.64178	3.19679	0.1591446	0.28633949	2.2797220	20	1 27.7	20.4
244051 2001 TJ_{26}	16.6	X	39.89070	67.20944	256.27608	4.08512	0.1190570	0.26302964	2.4124941	20	11 26.0	19.7
244052 2001 TX_{29}	15.5	X	227.00703	71.37022	254.72230	5.43103	0.1667042	0.18604087	3.0389984	20	3 7.1	20.6
244053 2001 TJ_{47}	16.7	X	10.91574	23.04353	91.33631	7.25655	0.2197843	0.27562731	2.3384130	20	—	—
244054 2001 TM_{68}	16.2	X	255.42365	201.20661	208.95306	9.80646	0.1531445	0.25036169	2.4932020	20	7 21.9	19.7
244055 2001 TR_{77}	15.2	X	146.77636	329.43595	53.63659	22.14731	0.2009154	0.17887288	3.1196537	20	3 22.4	20.7
244056 2001 TT_{77}	15.2	X	209.41853	174.35160	201.56349	15.93296	0.1089198	0.18647115	3.0343216	20	4 25.2	19.9
244057 2001 TV_{80}	17.0	X	178.90986	190.51171	242.13815	6.62855	0.0723754	0.29924661	2.2136887	20	6 2.9	19.8
244058 2001 TV_{83}	17.1	X	308.11805	50.77384	268.81800	4.92719	0.1710434	0.30395714	2.1907584	20	5 31.6	18.8
244059 2001 TN_{88}	15.5	X	190.21556	166.37289	214.56974	8.80107	0.0917542	0.18719246	3.0265218	20	4 10.7	20.3
244060 2001 TJ_{90}	15.5	X	187.48726	348.46802	348.38184	10.92228	0.1871853	0.18226191	3.0808610	20	2 20.4	20.7
244061 2001 TW_{92}	15.7	X	146.75790	25.46675	0.65311	10.76426	0.1002368	0.18086238	3.0967339	20	3 7.3	20.4
244062 2001 TB_{109}	17.2	X	35.40460	183.33704	267.20523	4.96814	0.1860199	0.27668578	2.3324454	20	—	—
244063 2001 TJ_{110}	15.1	X	150.03956	142.15675	254.28464	9.30947	0.0520804	0.18131014	3.0916334	20	3 12.7	19.8
244064 2001 TW_{117}	15.9	X	65.19977	70.39011	272.91183	14.65476	0.2300827	0.21811823	2.7332209	20	—	—
244065 2001 TZ_{118}	14.4	X	108.61540	133.53299	240.27061	21.80446	0.2215114	0.17442017	3.1725240	20	1 19.3	19.4
244066 2001 TR_{129}	15.8	X	319.79680	115.44297	198.72825	10.76721	0.0988883	0.19792044	2.9161439	20	6 21.8	19.6
244067 2001 TD_{130}	15.8	X	251.51879	140.12427	209.36736	10.11315	0.1162622	0.19129402	2.9831044	20	5 5.6	20.2
244068 2001 TM_{134}	16.2	X	247.54415	94.00983	317.10852	10.39738	0.2012006	0.25243280	2.4795461	20	7 11.4	19.8
244069 2001 TZ_{148}	16.7	X	338.79517	8.98953	90.75073	5.30907	0.1704679	0.27002461	2.3706484	20	—	—
244070 2001 TK_{158}	15.2	X	70.29688	53.47522	352.86153	27.38616	0.2456407	0.17451800	3.1713382	20	1 31.7	19.5
244071 2001 TT_{168}	16.6	X	32.46903	101.03363	7.05035	12.72534	0.1227212	0.27678285	2.3319001	20	—	—
244072 2001 TM_{179}	17.2	X	174.10026	202.73043	245.56406	4.02204	0.0379795	0.29872457	2.2162670	20	6 19.2	20.0
244073 2001 TN_{180}	15.5	X	138.27339	179.47910	242.10581	8.83322	0.0923792	0.18308529	3.0716171	20	4 4.6	20.2
244074 2001 TC_{183}	15.1	X	88.01961	27.47606	18.10396	14.83379	0.2260221	0.17275094	3.1929279	20	2 16.5	19.7
244075 2001 TQ_{200}	15.2	X	137.79090	326.49154	69.68051	10.98281	0.0819007	0.18194229	3.0844681	20	3 12.1	20.0
244076 2001 TK_{210}	15.8	X	91.60757	351.87893	312.39876	8.92782	0.2043878	0.21793523	2.7347508	20	12 27.0	20.3
244077 2001 TM_{216}	15.3	X	231.43433	30.84618	348.28507	12.65596	0.1099327	0.19042462	2.9921772	20	5 16.5	20.1
244078 2001 TE_{231}	16.7	X	71.68264	290.73352	147.95750	9.12606	0.1986676	0.28168401	2.3047718	20	2 3.9	18.5
244079 2001 TU_{237}	15.8	X	93.82257	273.86182	162.55671	11.17542	0.1550396	0.17913515	3.1166080	20	3 15.5	20.1
244080 2001 TO_{238}	17.0	X	182.30715	286.67856	108.01698	7.59650	0.1476704	0.29420307	2.2389166	20	4 20.2	20.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
244081 2001 UY_{5}	15.2	X	166.40330	273.47257	76.15771	15.39465	0.2338748	0.17686278	3.1432463	20	2 24.6	20.8
244082 2001 UD_{21}	17.0	X	104.89524	39.72000	265.87799	5.54563	0.1927993	0.32623532	2.0898514	20	—	—
244083 2001 UD_{22}	15.6	X	82.81652	69.60837	268.00233	7.17825	0.1848830	0.21992218	2.7182539	20	—	—
244084 2001 UG_{33}	16.9	X	356.21972	2.30343	58.83830	13.85911	0.2059023	0.26726257	2.3869535	20	—	—
244085 2001 UE_{47}	15.2	X	112.06327	320.15356	71.04956	5.06056	0.2538717	0.17515297	3.1636690	20	2 24.9	20.0
244086 2001 UO_{50}	15.5	X	34.96794	248.93394	99.77514	9.33841	0.2998301	0.21203081	2.7852878	20	—	—
244087 2001 UH_{52}	17.2	X	176.19350	309.31764	51.91242	4.00304	0.1794243	0.28718474	2.2752466	20	3 2.1	20.7
244088 2001 UJ_{54}	15.2	X	15.28836	42.29116	301.40236	12.36401	0.1072812	0.20985075	2.8045447	20	10 29.9	19.0
244089 2001 UT_{63}	15.4	X	93.54252	229.33174	228.70372	10.81415	0.0410487	0.18132328	3.0914840	20	3 20.9	19.9
244090 2001 UC_{68}	15.6	X	302.92202	29.26923	196.06835	11.27619	0.0256137	0.17953713	3.1119542	20	2 13.1	20.1
244091 2001 UM_{77}	15.6	X	20.01341	307.16920	65.18994	9.09490	0.1682107	0.21077562	2.7963346	20	12 26.8	19.3
244092 2001 UV_{78}	16.0	X	237.17039	143.20700	191.79934	9.87530	0.1122318	0.18690740	3.0295983	20	4 2.4	20.5
244093 2001 UM_{82}	15.1	X	302.24500	199.55733	56.43997	13.85252	0.0729375	0.18224307	3.0810733	20	3 24.2	19.5
244094 2001 UK_{97}	16.7	X	305.59318	78.71296	55.06977	7.02310	0.0606729	0.27109917	2.3643799	20	—	—
244095 2001 UZ_{100}	16.7	X	98.80045	196.16608	121.86741	1.97830	0.1934083	0.22003967	2.7172863	20	—	—
244096 2001 US_{118}	15.4	X	178.14640	161.48864	204.58633	10.17327	0.1479277	0.18099363	3.0952367	20	3 12.4	20.4
244097 2001 UN_{121}	16.5	X	55.58384	237.99965	67.21476	5.76033	0.1063135	0.26036342	2.4289360	20	11 19.9	19.6
244098 2001 UE_{141}	17.8	X	53.68992	6.31490	75.44135	3.33703	0.1637720	0.27807753	2.3246565	20	—	—
244099 2001 UE_{143}	16.2	X	38.01787	272.19733	76.31649	5.41069	0.0783087	0.21115801	2.7929576	20	12 7.7	19.7
244100 2001 UW_{146}	15.5	X	182.96273	308.72404	68.58621	6.63311	0.1677755	0.18319552	3.0703849	20	4 3.9	20.6
244101 2001 UN_{147}	16.5	X	27.16393	197.09512	173.84424	4.59008	0.0829852	0.21317350	2.7753253	20	12 22.9	20.2
244102 2001 UN_{150}	15.3	X	102.29719	220.00009	228.43444	14.50528	0.1673636	0.17775975	3.1326636	20	4 7.4	20.0
244103 2001 UV_{171}	17.7	X	61.46744	217.76388	219.80509	4.09430	0.1983190	0.27717824	2.3296819	20	1 11.8	19.5
244104 2001 UP_{184}	15.6	X	233.10711	248.30571	26.80010	24.46805	0.0486124	0.17712022	3.1401999	20	2 2.4	20.7
244105 2001 UW_{186}	16.3	X	23.97270	177.22911	239.21376	10.52284	0.0783233	0.22011422	2.7166727	20	—	—
244106 2001 UL_{189}	15.4	X	53.97340	18.32271	293.06560	11.43920	0.1412935	0.21243988	2.7817110	20	11 18.1	19.5
244107 2001 UD_{195}	16.2	X	349.42798	239.87673	50.69642	4.65003	0.1114478	0.19819714	2.9134292	20	7 9.6	19.7
244108 2001 UW_{204}	15.5	X	75.11979	198.11116	237.52295	8.04106	0.0739559	0.17474850	3.1685489	20	2 4.8	19.9
244109 2001 UX_{213}	15.5	X	51.93622	249.60069	200.69011	10.89828	0.0841940	0.17415323	3.1757650	20	1 23.7	19.8
244110 2001 UC_{220}	15.7	X	113.84314	134.02179	211.07059	12.12559	0.0893509	0.16873661	3.2433701	20	—	—
244111 2001 UV_{225}	16.1	X	258.04216	232.48511	49.50148	10.87910	0.0657528	0.18381743	3.0634556	20	3 2.2	20.7
244112 2001 UH_{227}	16.3	X	236.90543	179.52686	177.26955	11.53759	0.0797357	0.19074627	2.9888125	20	5 4.1	20.8
244113 2001 VU_{3}	16.2	X	318.88001	82.56247	24.63547	8.35071	0.1547868	0.21390145	2.7690251	20	—	—
244114 2001 VX_{3}	16.6	X	15.16903	130.47733	260.63787	3.09355	0.2107775	0.21219652	2.7838374	20	—	—
244115 2001 VG_{4}	15.9	X	231.67392	73.75689	243.53458	21.11829	0.3747244	0.29068091	2.2569661	20	2 8.6	20.8
244116 2001 VE_{7}	15.4	X	189.94412	167.89774	225.31900	20.47884	0.0630572	0.18571949	3.0425034	20	4 25.7	20.0
244117 2001 VU_{10}	15.6	X	18.05784	189.38047	232.96691	16.58311	0.2260331	0.21770605	2.7366697	20	—	—
244118 2001 VU_{13}	15.2	X	169.46064	77.17629	250.27424	24.06330	0.3262352	0.17719384	3.1393300	20	1 22.8	21.2
244119 2001 VH_{16}	15.1	X	166.64637	110.03197	257.73201	9.56497	0.1241874	0.18029199	3.1032619	20	2 29.6	20.2
244120 2001 VP_{23}	16.9	X	9.38783	115.36482	245.09760	4.54388	0.1715410	0.31435547	2.1421771	20	12 27.0	19.0
244121 2001 VX_{35}	17.0	X	134.17882	349.96576	57.33555	4.20988	0.1771665	0.28376208	2.2935056	20	3 19.9	20.2
244122 2001 VV_{40}	16.1	X	288.01313	17.61451	71.01748	7.95191	0.1065257	0.20466939	2.8516800	20	11 3.9	19.6
244123 2001 VE_{41}	14.8	X	101.16150	158.44902	254.57356	15.14142	0.1054257	0.17209752	3.2010047	20	2 11.4	19.6
244124 2001 VV_{42}	15.7	X	212.70393	123.41653	261.72369	6.29311	0.1404608	0.23889033	2.5723911	20	5 4.7	19.7
244125 2001 VG_{43}	16.0	X	25.30476	305.37589	79.46580	9.35660	0.2619826	0.21233073	2.7826643	20	—	—
244126 2001 VK_{44}	15.5	X	37.71055	129.87374	246.72887	13.66776	0.3826707	0.21427868	2.7657743	20	—	—
244127 2001 VA_{46}	16.5	X	196.51689	127.19811	250.47891	5.86015	0.2228437	0.28917850	2.2647766	20	4 5.9	20.3
244128 2001 VQ_{57}	16.8	X	105.28219	49.90932	40.65227	6.30416	0.1422294	0.28467012	2.2886258	20	4 7.5	19.6
244129 2001 VE_{58}	15.7	X	1.83944	126.00468	243.39998	6.54394	0.2417042	0.20929148	2.8095387	20	12 5.7	18.7
244130 2001 VJ_{62}	15.3	X	152.51707	136.71980	239.69871	10.08264	0.0998172	0.17789967	3.1310208	20	2 24.8	20.3
244131 2001 VO_{62}	16.9	X	84.10089	155.91060	277.07183	2.86940	0.1251819	0.28060853	2.3106569	20	2 6.3	19.3
244132 2001 VN_{65}	16.8	X	18.93708	107.69032	280.53444	3.45020	0.2376075	0.26601973	2.3943822	20	—	—
244133 2001 VF_{82}	14.4	X	98.84202	157.72108	216.45620	26.82638	0.1431133	0.17386413	3.1792845	20	—	—
244134 2001 VE_{100}	16.4	X	150.41385	4.53594	61.20634	28.60534	0.1864838	0.28795463	2.2711893	20	5 5.5	20.1
244135 2001 VP_{102}	16.1	X	55.48796	300.38687	30.08669	4.79440	0.0884084	0.21003655	2.8028905	20	12 7.3	20.0
244136 2001 VW_{103}	16.3	X	261.54282	69.49627	278.03507	2.47502	0.1881611	0.19124277	2.9836373	20	5 4.1	20.8
244137 2001 VW_{118}	15.5	X	202.75624	95.73291	267.52494	7.92919	0.1085480	0.18248381	3.0783629	20	3 29.9	20.5
244138 2001 VR_{124}	17.5	X	88.06964	257.87386	199.85605	2.33679	0.1196290	0.28366891	2.2940078	20	3 18.2	20.0
244139 2001 VT_{124}	15.5	X	256.13932	262.89830	77.79220	10.61476	0.2273721	0.18852377	3.0122567	20	4 21.3	20.4
244140 2001 VZ_{132}	15.5	X	167.70935	95.77780	259.34211	13.43430	0.1180761	0.17612683	3.1519963	20	2 14.7	20.7
244141 2001 WV	15.0	X	201.14953	107.69338	239.73082	8.52475	0.0879853	0.18004468	3.1061030	20	3 10.1	20.0
244142 2001 WY	17.4	X	316.43274	254.10579	258.69617	4.63915	0.1007510	0.27038443	2.3685448	20	—	—
244143 2001 WH_{5}	17.6	X	311.14724	273.59752	71.17838	4.41933	0.1734548	0.30350572	2.1929301	20	7 21.7	19.1
244144 2001 WG_{15}	16.8	X	26.26060	142.56492	309.56394	22.24855	0.1213103	0.37717255	1.8971835	20	—	—
244145 2001 WU_{18}	15.0	X	139.63132	109.84188	229.43988	14.40094	0.0902350	0.17206739	3.2013783	20	1 1.5	20.0
244146 2001 WD_{24}	17.3	X	358.65392	317.13795	262.92757	2.76836	0.0981149	0.29362603	2.2418489	20	4 8.2	19.4
244147 2001 WX_{24}	15.4	X	342.82431	109.61116	237.21549	10.52284	0.2469710	0.20223799	2.8744906	20	9 12.5	18.1
244148 2001 WQ_{32}	15.5	X	124.04596	299.08882	105.35626	4.91006	0.0710643	0.17642245	3.1484742	20	3 2.1	20.0
244149 2001 WH_{33}	15.7	X	234.30623	188.97754	222.49055	8.34705	0.0868653	0.19281135	2.9674334	20	7 5.2	20.2
244150 2001 WW_{38}	16.7	X	13.80737	357.53537	84.30767	12.06066	0.2043611	0.26943751	2.3740909	20	—	—
244151 2001 WZ_{44}	14.9	X	82.40353	18.51535	85.88725	19.31080	0.0581898	0.17912795	3.1166915	20	3 31.9	19.6
244152 2001 WG_{56}	17.0	X	266.78472	108.74799	9.65383	2.24489	0.1523333	0.25989465	2.4318558	20	11 15.9	19.7
244153 2001 WN_{58}	16.5	X	298.62170	79.11934	30.61121	5.58473	0.0379132	0.21204587	2.7851558	20	12 22.0	20.2
244154 2001 WH_{61}	15.6	X	108.45151	115.85261	248.42260	8.75394	0.0356044	0.16842502	3.2473690	20	—	—
244155 2001 WJ_{65}	15.2	X	82.12657	235.38705	213.73533	15.18532	0.0278152	0.17900412	3.1181287	20	2 21.8	19.8
244156 2001 WR_{82}	15.5	X	223.60793	114.32343	206.43893	4.20367	0.1643835	0.18183115	3.0857248	20	2 28.7	20.6
244157 2001 WR_{90}	15.4	X	72.39994	287.95628	21.11858	11.98412	0.1603564	0.21074173	2.7966343	20	12 7.4	19.8
244158 2001 WE_{101}	18.2	X	42.08567	51.78470	45.00123	1.96214	0.1423747	0.27666974	2.3325356	20	—	—
244159 2001 WN_{103}	15.4	X	89.79828	338.05504	100.53114	10.42477	0.0724015	0.17555003	3.1588968	20	3 5.1	19.9
244160 2001 XC_{8}	16.6	X	160.86106	301.93437	96.22116	25.54933	0.2176642	0.28801925	2.2708496	20	4 18.5	20.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
244161 2001 XK_8	14.9	X	70.21441	172.16282	270.49811	16.68500	0.1287275	0.17232476	3.1981900	20	2 10.2	19.4
244162 2001 XQ_{15}	16.6	X	181.54183	171.72391	249.82512	5.10506	0.1756164	0.29264559	2.2468533	20	5 21.4	19.9
244163 2001 XX_{15}	16.1	X	236.07210	232.08591	192.79847	2.57698	0.1834018	0.24687352	2.5166320	20	7 16.9	19.9
244164 2001 XV_{29}	16.4	X	132.97679	177.44711	253.50923	7.58747	0.2504455	0.28366726	2.2940167	20	4 21.6	20.0
244165 2001 XR_{44}	16.8	X	174.07488	332.28281	48.91013	10.53888	0.2058061	0.28479238	2.2879708	20	3 29.2	20.6
244166 2001 XA_{47}	14.8	X	260.08270	35.50597	333.32186	11.52571	0.3013592	0.24298551	2.5434066	20	5 12.4	19.1
244167 2001 XE_{61}	16.9	X	359.29485	195.83998	260.49695	4.49440	0.1175099	0.26872953	2.3782589	20	—	—
244168 2001 XS_{78}	15.8	X	182.08705	332.54081	111.76721	5.08377	0.1008196	0.18806112	3.0171950	20	6 20.4	20.4
244169 2001 XK_{81}	16.5	X	42.33363	330.20890	230.95162	6.55541	0.1768837	0.28939951	2.2636235	20	6 16.3	18.5
244170 2001 XV_{84}	16.6	X	16.71438	171.14840	18.99229	4.31161	0.0818714	0.28590837	2.2820131	20	3 29.7	18.8
244171 2001 XA_{89}	15.1	X	11.19802	317.28805	246.78983	15.67718	0.0655689	0.18333965	3.0687755	20	4 13.8	19.3
244172 2001 XS_{90}	17.1	X	350.84322	63.20731	351.57567	2.21434	0.1757489	0.26439320	2.4041923	20	—	—
244173 2001 XZ_{90}	15.5	X	280.83163	73.18612	278.05885	5.54419	0.1499012	0.19324654	2.9629766	20	6 6.5	19.6
244174 2001 XH_{120}	17.0	X	9.05582	344.45709	103.85983	4.15657	0.1710493	0.27202552	2.3590091	20	—	—
244175 2001 XK_{125}	17.8	X	18.16536	10.53274	101.85213	3.31002	0.1666418	0.27434280	2.3457065	20	—	—
244176 2001 XJ_{127}	17.5	X	97.00183	189.12865	239.79231	3.69406	0.1036397	0.28109223	2.3080054	20	2 16.1	20.2
244177 2001 XA_{134}	16.8	X	325.87614	220.76081	235.02151	3.15003	0.1682521	0.21065866	2.7973695	20	—	—
244178 2001 XX_{139}	17.1	X	359.13159	28.98533	88.01040	3.23662	0.1315113	0.27102867	2.3647899	20	—	—
244179 2001 XF_{150}	17.1	X	18.04331	357.41693	73.94808	2.50566	0.1598730	0.26845758	2.3798647	20	—	—
244180 2001 XC_{151}	17.1	X	63.10893	331.21613	93.87899	6.02540	0.2114827	0.27469207	2.3437177	20	—	—
244181 2001 XE_{180}	14.8	X	198.33309	98.25625	271.77076	17.69216	0.2688434	0.18051340	3.1007238	20	3 27.4	20.7
244182 2001 XS_{202}	17.6	X	34.40615	320.90966	132.92097	3.59725	0.2059807	0.27480389	2.3430819	20	—	—
244183 2001 XQ_{203}	15.0	X	71.31384	352.40736	85.36984	19.85898	0.1233513	0.17172511	3.2056309	20	2 18.2	19.5
244184 2001 XR_{205}	15.5	X	83.25631	226.86344	211.22405	6.67287	0.1651077	0.17276589	3.1927437	20	3 3.3	19.8
244185 2001 XG_{206}	15.1	X	158.52672	156.54859	240.93437	14.54554	0.1484227	0.17934540	3.1141717	20	3 29.5	20.3
244186 2001 XV_{215}	17.4	X	29.28552	246.99575	81.19554	2.20823	0.2090434	0.31214451	2.1522807	20	12 14.0	20.0
244187 2001 XP_{244}	17.1	X	36.57220	112.09979	268.70709	5.75747	0.1387027	0.26750876	2.3854888	20	—	—
244188 2001 XS_{244}	16.4	X	4.45362	112.73916	295.94651	3.20552	0.0683727	0.21233483	2.7826285	20	—	—
244189 2001 XS_{247}	16.9	X	12.96777	208.28914	283.27125	3.08277	0.2319412	0.27351866	2.3504160	20	—	—
244190 2001 XP_{267}	15.7	X	157.07332	197.79450	87.08869	9.10977	0.0650630	0.21061129	2.7977890	20	—	—
244191 2001 YG_{13}	15.6	X	203.81287	257.22066	77.56272	26.73905	0.2488731	0.18016797	3.1046859	20	3 12.7	21.6
244192 2001 YR_{22}	16.8	X	93.63770	0.83480	50.82960	6.62243	0.0889432	0.27829817	2.3234277	20	1 19.5	19.5
244193 2001 YJ_{24}	16.8	X	163.03230	104.50043	289.97570	4.88102	0.1320345	0.28669992	2.2778109	20	3 24.4	20.1
244194 2001 YW_{34}	15.2	X	78.15739	169.48089	264.37051	4.94822	0.0617469	0.17113967	3.2129373	20	2 7.0	19.7
244195 2001 YP_{35}	15.3	X	154.90445	322.77631	57.19062	10.09213	0.1286378	0.17627956	3.1501755	20	3 14.1	20.4
244196 2001 YQ_{40}	16.6	X	26.63245	328.65833	276.71220	6.49089	0.1181814	0.29444555	2.2376872	20	7 17.9	18.7
244197 2001 YC_{44}	15.5	X	167.37063	295.41841	72.06971	9.73565	0.0868177	0.17518261	3.1633122	20	3 9.1	20.5
244198 2001 YP_{85}	16.7	X	135.97208	319.77130	80.60791	6.57966	0.1823699	0.28055079	2.3109739	20	3 15.2	20.1
244199 2001 YE_{89}	16.7	X	274.82343	202.15866	287.10797	7.75037	0.2072750	0.25715042	2.4491265	20	12 7.4	18.9
244200 2001 YU_{99}	15.4	X	353.77126	152.56817	247.87690	7.28322	0.1489981	0.15479587	3.4352879	20	12 2.9	19.5
244201 2001 YL_{102}	16.8	X	356.80022	266.12156	105.98085	4.36698	0.2509811	0.25882278	2.4385653	20	12 19.4	19.0
244202 2001 YV_{120}	17.3	X	301.54040	260.22119	258.44141	3.90942	0.1674450	0.26406184	2.4062031	20	—	—
244203 2001 YJ_{130}	16.4	X	218.44203	98.68172	305.55128	11.49434	0.1682865	0.24006738	2.5639759	20	6 2.6	20.6
244204 2001 YH_{141}	16.9	X	173.92227	220.37626	168.69956	6.58215	0.1762782	0.28804844	2.2706962	20	4 3.4	20.3
244205 2001 YL_{144}	16.6	X	314.80478	133.11504	104.12256	7.64216	0.0660642	0.27990013	2.3145540	20	3 2.4	19.4
244206 2001 YB_{160}	16.6	X	229.34297	348.54311	55.51039	15.04489	0.2639983	0.24198717	2.5503972	20	6 4.9	20.9
244207 2002 AW_7	16.7	X	192.72203	219.02672	118.60606	10.22596	0.2507757	0.28033038	2.3121852	20	2 18.7	20.7
244208 2002 AY_7	17.9	X	346.28525	266.67741	240.46165	1.44199	0.1428657	0.26991566	2.3712863	20	—	—
244209 2002 AO_{15}	16.0	X	209.29965	100.62886	298.45170	12.56766	0.1877496	0.24118149	2.5560738	20	5 15.5	20.4
244210 2002 AW_{22}	17.4	X	339.89829	254.83367	252.41349	4.08763	0.1658883	0.26812611	2.3818257	20	—	—
244211 2002 AV_{24}	16.6	X	344.98904	260.82571	239.59678	6.30024	0.0343619	0.26870886	2.3783808	20	—	—
244212 2002 AV_{44}	17.2	X	349.07900	20.65562	134.75398	3.20018	0.1349454	0.27135169	2.3629128	20	—	—
244213 2002 AP_{46}	16.7	X	162.02957	86.44540	271.30959	4.10738	0.1296664	0.27692687	2.3310915	20	2 6.9	20.1
244214 2002 AW_{49}	17.4	X	357.34810	158.62853	299.21238	4.36767	0.1969991	0.26581671	2.3956013	20	—	—
244215 2002 AC_{50}	17.0	X	20.36234	310.08568	279.29668	4.57913	0.1130022	0.28565882	2.2833420	20	6 8.4	19.1
244216 2002 AH_{76}	17.7	X	319.68176	169.81047	330.15332	2.51213	0.1759548	0.26517258	2.3994791	20	—	—
244217 2002 AS_{79}	17.5	X	288.66275	230.49039	320.51545	2.61646	0.1209727	0.26742904	2.3859628	20	—	—
244218 2002 AA_{93}	17.8	X	278.32706	57.06296	215.31430	9.52366	0.2104058	0.27147405	2.3622027	20	2 6.8	21.6
244219 2002 AV_{106}	16.7	X	119.37660	328.03665	110.76739	5.53498	0.1091392	0.28111180	2.3078983	20	4 6.4	19.7
244220 2002 AJ_{144}	17.1	X	179.24899	275.22843	121.16018	22.43720	0.2126510	0.28674130	2.2775918	20	4 27.6	21.4
244221 2002 AR_{157}	17.1	X	68.11782	313.32308	136.13912	2.34481	0.0949081	0.27371181	2.3493102	20	2 1.5	19.2
244222 2002 AX_{161}	16.3	X	309.31581	250.57149	301.09634	6.32605	0.0614786	0.26865344	2.3787079	20	—	—
244223 2002 AY_{176}	15.1	X	17.11123	92.42412	127.95928	25.62001	0.2531010	0.17320721	3.1873180	20	6 7.2	18.8
244224 2002 AW_{177}	16.8	X	34.25082	327.03946	124.46305	7.12314	0.0934691	0.26837447	2.3803560	20	—	—
244225 2002 BJ_1	16.6	X	289.29613	84.66669	101.33930	7.77023	0.1899158	0.26348450	2.4097168	20	—	—
244226 2002 BB_3	16.0	X	153.98933	130.09967	354.70308	14.28382	0.1291680	0.23803144	2.5785754	20	7 19.5	20.3
244227 2002 BD_{18}	15.5	X	281.19990	65.76694	13.27382	7.98634	0.1937595	0.19911387	2.9044799	20	9 26.9	19.1
244228 2002 BG_{22}	16.6	X	187.95314	321.06380	68.10178	7.70109	0.1113609	0.28438379	2.2901618	20	4 17.8	19.9
244229 2002 CZ_{15}	15.7	X	175.66958	182.92448	326.00451	4.91910	0.1177941	0.18744662	3.0237854	20	9 1.1	20.4
244230 2002 CO_{20}	16.7	X	342.07185	322.96757	213.28405	5.92657	0.0497902	0.27129729	2.3632287	20	1 16.6	19.6
244231 2002 CH_{47}	17.1	X	305.97768	27.71493	170.77228	2.51000	0.1468913	0.26862823	2.3788567	20	—	—
244232 2002 CX_{60}	16.4	X	191.61161	308.18442	70.04854	7.54042	0.1239354	0.28209157	2.3025513	20	4 8.0	19.9
244233 2002 CU_{68}	17.4	X	290.05279	0.66268	113.36305	1.76990	0.1722110	0.25673728	2.4517533	20	12 20.6	19.4
244234 2002 CP_{69}	15.6	X	285.80727	271.72712	317.41094	12.89497	0.1662665	0.21534840	2.7566076	20	1 9.7	19.8
244235 2002 CX_{69}	16.7	X	298.84306	100.70951	117.46834	6.96724	0.0725499	0.27120241	2.3637798	20	1 11.9	19.8
244236 2002 CC_{74}	16.7	X	330.38190	165.79900	113.50963	5.96461	0.0857905	0.28474746	2.2882114	20	5 24.1	19.0
244237 2002 CP_{76}	17.0	X	36.00640	104.92774	324.01328	2.85874	0.1062726	0.26527128	2.3988839	20	—	—
244238 2002 CK_{77}	17.5	X	320.23873	6.18151	114.47368	2.92425	0.1673366	0.26091674	2.4255008	20	—	—
244239 2002 CS_{85}	16.5	X	177.46907	298.77330	343.40891	5.62098	0.1104555	0.26263956	2.4148822	20	—	—
244240 2002 CH_{103}	15.6	X	234.80133	20.47611	95.23286	3.56368	0.1343375	0.19188128	2.9770146	20	9 22.6	19.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
244241 2002 CL_{110}	16.7	X	310.72621	12.32317	150.91797	9.98208	0.1021415	0.26251010	2.4156761	20	—	—
244242 2002 CU_{113}	16.9	X	229.00076	96.11131	93.43214	3.51567	0.1232064	0.25529939	2.4609504	20	12 30.5	19.9
244243 2002 CD_{117}	17.0	X	331.61272	15.58369	148.27601	9.06903	0.0527538	0.26762079	2.3848230	20	—	—
244244 2002 CW_{119}	16.0	X	177.82837	289.58453	276.17386	4.09683	0.0765645	0.25195894	2.4826540	20	11 24.5	19.6
244245 2002 CC_{120}	16.8	X	353.21905	196.09683	290.57705	3.55422	0.0954315	0.26753118	2.3853555	20	—	—
244246 2002 CW_{120}	17.1	X	299.12084	253.74845	290.98661	3.08563	0.1552123	0.26592374	2.3949584	20	—	—
244247 2002 CC_{130}	16.5	X	256.86454	296.13468	303.24041	6.32877	0.0768946	0.26594168	2.3948507	20	—	—
244248 2002 CB_{143}	17.0	X	112.57819	262.49314	130.15359	3.11571	0.1992708	0.27531863	2.3401605	20	2 6.2	19.8
244249 2002 CQ_{153}	16.2	X	321.39378	25.80912	320.47802	2.96902	0.1528821	0.18923473	3.0047072	20	8 2.6	19.5
244250 2002 CM_{162}	15.0	X	8.49630	116.74836	128.71903	20.71892	0.2109328	0.17564666	3.1577382	20	6 16.7	18.6
244251 2002 CP_{172}	15.3	X	234.70842	319.01849	111.73855	10.75253	0.0767757	0.18599845	3.0394604	20	8 2.2	19.7
244252 2002 CF_{173}	16.8	X	305.31827	59.44496	109.32772	4.71805	0.1302495	0.26290629	2.4132486	20	—	—
244253 2002 CP_{183}	15.2	X	257.01749	33.59649	317.64898	8.27750	0.1489265	0.17987128	3.1080989	20	5 6.5	20.0
244254 2002 CR_{199}	17.2	X	276.71603	44.92925	114.58660	2.24966	0.1373687	0.25844857	2.4409186	20	—	—
244255 2002 CB_{204}	17.5	X	273.54678	128.72563	81.35806	2.35466	0.1276804	0.26387361	2.4073473	20	—	—
244256 2002 CT_{220}	17.2	X	256.80132	42.66500	135.06558	3.96301	0.1195070	0.25580917	2.4576798	20	—	—
244257 2002 CL_{222}	17.7	X	64.97464	73.60188	92.50650	0.74571	0.0644367	0.28284213	2.2984761	20	5 13.5	20.1
244258 2002 CD_{226}	16.2	X	309.49461	109.42248	300.26158	8.88152	0.1824693	0.19834450	2.9119860	20	10 1.4	19.5
244259 2002 CD_{242}	17.2	X	214.77820	340.48819	262.65222	1.53235	0.1530390	0.25733055	2.4479835	20	—	—
244260 2002 CB_{245}	15.4	X	140.14727	309.20633	168.62402	27.34312	0.1312485	0.17870349	3.1216247	20	6 22.1	20.8
244261 2002 CZ_{251}	16.1	X	322.61867	260.12233	169.70491	15.30709	0.2424569	0.20355522	2.8620764	20	12 4.9	19.0
244262 2002 CB_{252}	16.3	X	251.99533	45.75887	153.55899	15.09789	0.0702317	0.26139049	2.4225692	20	—	—
244263 2002 CR_{282}	16.0	X	290.23296	53.69689	333.98845	12.87082	0.1795305	0.18821414	3.0155593	20	8 5.3	19.9
244264 2002 CE_{283}	17.6	X	258.52441	222.52579	315.04892	1.53782	0.1574713	0.25658382	2.4527307	20	—	—
244265 2002 CV_{303}	17.0	X	279.17608	132.96626	153.77301	6.58821	0.1384407	0.27572474	2.3378621	20	3 9.5	20.1
244266 2002 CR_{305}	17.1	X	15.42209	27.05361	66.11656	3.99964	0.1460152	0.26655438	2.3911795	20	—	—
244267 2002 CC_{306}	17.2	X	283.36553	337.14757	225.64376	1.64040	0.1276762	0.26458322	2.4030410	20	—	—
244268 2002 CP_{310}	16.8	X	47.71231	196.45670	236.17073	5.80388	0.1154834	0.26705464	2.3881923	20	—	—
244269 2002 DN	15.8	X	2.31774	149.96982	116.25399	5.92688	0.1884593	0.17949175	3.1124788	20	6 28.9	19.1
244270 2002 DN_{1}	14.8	X	256.51640	3.49257	314.11682	17.74069	0.1162155	0.17256174	3.1952613	20	3 23.7	19.9
244271 2002 DJ_{19}	17.7	X	258.62294	126.40081	55.65893	4.69303	0.1598150	0.25728037	2.4483018	20	—	—
244272 2002 DF_{20}	16.6	X	212.07867	309.76203	302.90335	6.91762	0.1512622	0.26013008	2.4303883	20	—	—
244273 2002 EV_{5}	17.3	X	224.84462	308.68522	348.70266	17.83271	0.0703739	0.37811902	1.8940162	20	1 17.2	19.8
244274 2002 EC_{7}	17.5	X	165.72138	114.49072	181.28553	2.87572	0.1755121	0.25562030	2.4588903	20	—	—
244275 2002 EG_{9}	16.3	X	139.19769	180.37730	29.07655	13.15557	0.0795460	0.24309716	2.5426278	20	10 17.4	20.1
244276 2002 EH_{16}	16.5	X	297.15993	155.83556	308.18543	9.88541	0.2086718	0.25456549	2.4656780	20	12 17.8	18.5
244277 2002 EL_{19}	17.6	X	326.40610	108.07155	33.04063	2.59146	0.1707455	0.26228512	2.4170573	20	—	—
244278 2002 EG_{25}	16.1	X	189.70364	234.96712	220.68104	11.60399	0.2498020	0.23839843	2.5759284	20	7 7.5	20.8
244279 2002 EU_{27}	16.7	X	306.46072	104.11061	114.18551	3.46708	0.1303287	0.26785623	2.3834253	20	1 14.1	19.6
244280 2002 EJ_{39}	16.9	X	290.68768	217.02602	340.54624	3.96650	0.0751668	0.26422769	2.4051962	20	—	—
244281 2002 EB_{40}	15.8	X	182.69718	96.95062	13.77469	1.37953	0.1309551	0.18178661	3.0862288	20	7 23.3	20.6
244282 2002 ER_{70}	15.0	X	33.60271	206.90134	1.78845	17.11441	0.0555696	0.17135632	3.2102287	20	5 20.4	19.6
244283 2002 EC_{85}	16.8	X	237.09228	200.98487	36.89562	1.97393	0.1320133	0.25942364	2.4347984	20	—	—
244284 2002 EK_{93}	17.3	X	282.38499	109.65454	140.07818	3.14524	0.1833714	0.26907960	2.3761957	20	1 19.8	20.8
244285 2002 EL_{94}	17.1	X	260.10949	46.85957	155.59506	1.86413	0.1368942	0.25937180	2.4351229	20	—	—
244286 2002 EA_{101}	16.8	X	306.64250	77.37236	86.03081	7.74423	0.1438808	0.26241573	2.4162552	20	—	—
244287 2002 EV_{103}	16.1	X	216.32061	34.40953	60.93740	13.51651	0.2437027	0.24048969	2.5609734	20	8 4.6	20.5
244288 2002 EO_{108}	17.5	X	254.18182	40.70060	160.91272	2.99500	0.1152626	0.25902032	2.4373253	20	—	—
244289 2002 EJ_{115}	16.3	X	247.01686	123.10807	98.01140	5.13262	0.1302313	0.25802955	2.4435605	20	—	—
244290 2002 EZ_{119}	15.8	X	187.40515	118.03577	343.56264	8.54566	0.1174998	0.18064366	3.0992330	20	7 18.5	20.8
244291 2002 EW_{135}	17.1	X	286.40368	164.52935	39.71532	3.12167	0.1426328	0.26499458	2.4005535	20	—	—
244292 2002 EZ_{141}	16.3	X	260.67347	307.84078	359.91323	5.16574	0.0486353	0.22203895	2.7009504	20	3 29.7	20.1
244293 2002 EG_{145}	17.3	X	225.99045	310.38303	311.81633	1.60388	0.1890336	0.26139998	2.4225106	20	—	—
244294 2002 EK_{148}	15.2	X	213.31989	65.17640	14.65606	9.61997	0.0785212	0.18074108	3.0981193	20	7 21.6	20.0
244295 2002 ES_{151}	16.3	X	204.75977	286.60823	195.14180	14.41126	0.0416977	0.23858181	2.5746083	20	9 7.0	20.1
244296 2002 EZ_{157}	16.5	X	293.46161	210.61347	309.46100	10.82780	0.0243297	0.26108874	2.4244354	20	—	—
244297 2002 FD_{4}	16.6	X	86.25096	17.98460	116.81238	6.69930	0.1229663	0.27856932	2.3219197	20	5 12.3	19.4
244298 2002 FY_{5}	16.0	X	153.12704	123.65230	124.13251	13.08036	0.1180493	0.24499311	2.5294929	20	12 18.4	20.0
244299 2002 FU_{25}	16.4	X	188.65547	132.14776	117.15073	15.53553	0.1508206	0.25322905	2.4743456	20	—	—
244300 2002 FW_{25}	16.0	X	97.58223	191.65372	86.59968	16.03395	0.1446402	0.24401886	2.5362212	20	12 3.2	20.0
244301 2002 FJ_{35}	16.3	X	305.67243	351.62124	275.89401	5.99660	0.2470862	0.27214740	2.3583047	20	2 26.3	19.5
244302 2002 GM_{4}	17.5	X	203.87709	150.97894	207.02204	20.63614	0.0746788	0.38055363	1.8859296	20	3 8.1	20.0
244303 2002 GT_{8}	15.9	X	182.53166	151.48340	28.53766	12.61162	0.1942769	0.24203972	2.5500280	20	10 19.2	19.9
244304 2002 GE_{69}	16.7	X	188.61394	321.84616	191.32725	8.69235	0.0287640	0.23932043	2.5693082	20	10 2.5	20.1
244305 2002 GY_{78}	16.5	X	290.54146	99.65293	83.39580	12.91790	0.0956217	0.26071773	2.4267349	20	—	—
244306 2002 GM_{88}	15.8	X	306.77376	186.75765	74.38697	10.28334	0.2219703	0.21407540	2.7675249	20	3 9.6	19.6
244307 2002 GL_{90}	15.4	X	212.97433	41.69405	22.96552	6.17432	0.1657407	0.17591562	3.1545188	20	6 23.2	20.5
244308 2002 GG_{92}	17.6	X	209.95447	322.83304	202.77248	3.05644	0.1316573	0.24535988	2.5269715	20	11 3.4	21.2
244309 2002 GQ_{93}	15.9	X	272.15610	10.63244	242.61514	5.82975	0.0780161	0.21087718	2.7954367	20	1 31.1	20.1
244310 2002 GD_{105}	17.0	X	289.41317	34.49764	127.09847	5.61490	0.1509716	0.25778576	2.4451008	20	—	—
244311 2002 GE_{107}	16.0	X	12.69770	13.32294	144.92024	8.41653	0.1344302	0.21580273	2.7527372	20	2 14.1	18.8
244312 2002 GG_{128}	17.0	X	180.40471	294.05713	204.60332	4.59040	0.1906605	0.23864968	2.5741201	20	8 24.9	21.3
244313 2002 GY_{133}	16.4	X	305.06341	102.84219	203.81852	9.63214	0.1897362	0.27707521	2.3302594	20	5 4.2	18.8
244314 2002 GQ_{136}	15.3	X	178.12569	89.72637	18.33793	13.65345	0.1424853	0.17728267	3.1382812	20	7 18.4	20.6
244315 2002 GA_{142}	17.4	X	91.07652	221.90715	206.61976	20.24318	0.0767169	0.37331695	1.9102238	20	1 10.4	19.6
244316 2002 GC_{154}	16.9	X	74.11363	78.34812	174.82194	11.21234	0.2126756	0.23235997	2.6203653	20	10 15.2	20.9
244317 2002 GU_{161}	15.5	X	233.18510	226.50987	190.45652	15.70328	0.0636640	0.17849916	3.1240065	20	7 11.8	20.3
244318 2002 GU_{165}	15.6	X	6.70846	320.30107	19.81921	31.21438	0.0598883	0.24013022	2.5635286	20	10 16.2	18.8
244319 2002 GO_{172}	16.7	X	150.42623	227.62368	23.38409	5.04402	0.1001588	0.24661698	2.5183769	20	12 19.3	20.4
244320 2002 GF_{177}	17.8	X	281.75416	33.50473	202.99803	0.79147	0.1323535	0.26368080	2.4085206	20	1 8.9	21.2

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		°	°	°	°		°				
244321 2002 GR_{181}	17.3	X	265.53928	104.09185	43.53810	3.25401	0.1023526	0.25185917	2.4833096	20	12 30.0	20.0
244322 2002 GZ_{188}	17.4	X	278.93229	288.46888	41.18109	3.14532	0.2272759	0.27458507	2.3443265	20	4 23.4	20.4
244323 2002 HU_{10}	15.2	X	126.59445	110.93542	48.36331	26.98980	0.1882706	0.17859577	3.1228799	20	8 11.8	20.8
244324 2002 HT_{13}	17.2	X	321.24902	135.48123	74.48358	23.50145	0.0639178	0.37544568	1.9029964	20	1 12.5	19.4
244325 2002 HB_{15}	17.1	X	295.60284	93.96324	73.42065	2.50945	0.1264703	0.25905074	2.4371345	20	—	—
244326 2002 HN_{16}	16.2	X	186.41114	87.56936	92.81834	14.48766	0.1225104	0.24275474	2.5450183	20	11 3.0	20.2
244327 2002 HD_{17}	16.6	X	282.90417	287.03478	38.17189	5.83115	0.2640168	0.27508918	2.3414616	20	4 17.3	19.8
244328 2002 JL_{5}	16.2	X	162.54856	191.02314	45.15504	6.81194	0.2068015	0.24474570	2.5311973	20	12 7.3	20.3
244329 2002 JY_{9}	17.3	X	285.14853	72.98589	91.29001	23.92079	0.0646240	0.36213437	1.9493488	20	—	—
244330 2002 JW_{11}	16.7	X	38.94392	182.44274	36.23097	10.92873	0.0434679	0.27748909	2.3279418	20	6 15.6	19.5
244331 2002 JV_{21}	16.3	X	179.43250	344.96234	212.63606	13.14810	0.2125197	0.24231494	2.5480968	20	11 6.0	20.6
244332 2002 JH_{43}	15.9	X	20.79697	43.75833	239.42030	12.29229	0.2298144	0.22810446	2.6528551	20	9 6.6	19.0
244333 2002 JV_{52}	17.0	X	323.01184	355.98200	276.96604	4.50057	0.2138275	0.27236591	2.3570433	20	4 6.5	19.4
244334 2002 JE_{53}	14.9	X	73.17399	327.20366	220.16036	18.55410	0.0906812	0.17098571	3.2148657	20	6 24.6	19.6
244335 2002 JX_{62}	16.5	X	219.51358	145.33576	146.18649	5.37899	0.2410781	0.25668267	2.4521010	20	1 14.8	20.7
244336 2002 JJ_{86}	16.2	X	125.57054	33.09223	237.46703	6.37927	0.1490391	0.18760069	3.0221296	20	12 8.7	21.0
244337 2002 JR_{86}	16.6	X	205.12371	260.40940	44.14404	14.82744	0.1723446	0.25828513	2.4419482	20	1 22.2	20.8
244338 2002 JZ_{87}	16.8	X	170.17426	355.65734	245.16044	2.78135	0.1319511	0.24549672	2.5260324	20	12 24.8	20.7
244339 2002 JH_{104}	17.0	X	232.87652	154.52442	116.14831	3.71454	0.1744461	0.25727265	2.4483507	20	1 2.1	20.8
244340 2002 JR_{107}	15.8	X	157.50216	295.72970	194.63330	29.80243	0.2895043	0.23250258	2.6192937	20	7 23.3	21.2
244341 2002 JW_{109}	16.9	X	224.90425	11.77593	279.75468	2.32477	0.1947553	0.25818643	2.4425705	20	1 19.7	21.0
244342 2002 JG_{114}	15.9	X	248.41784	195.59458	159.45474	25.68501	0.2327867	0.26914783	2.3757941	20	4 30.0	20.1
244343 2002 JM_{120}	15.9	X	164.05470	24.47676	140.47190	12.84536	0.0974147	0.23631853	2.5910206	20	9 18.5	19.9
244344 2002 KY_{15}	17.2	X	129.50815	22.31505	240.71868	1.61924	0.2361877	0.24088752	2.5581530	20	12 12.8	21.6
244345 2002 KJ_{16}	16.3	X	54.66136	238.85062	105.76221	8.39749	0.1896712	0.23381769	2.6094630	20	—	—
244346 2002 LP	16.4	X	117.05336	110.82758	92.65847	12.63307	0.2038362	0.23258875	2.6186467	20	9 27.9	20.9
244347 2002 LT_{7}	17.2	X	130.61433	130.28920	212.41735	20.93797	0.0615876	0.36000107	1.9570422	20	—	—
244348 2002 LB_{27}	15.9	X	40.95081	204.56627	114.84121	15.04422	0.3365434	0.23000884	2.6381918	20	12 15.9	20.0
244349 2002 LF_{30}	15.8	X	295.99653	332.85674	283.08667	23.00903	0.0869877	0.26048458	2.4281827	20	2 15.1	19.5
244350 2002 LF_{43}	16.1	X	155.89367	157.89085	117.50424	21.51657	0.2330354	0.24287839	2.5441544	20	—	—
244351 2002 LO_{43}	15.7	X	104.59354	91.32241	243.01918	10.29957	0.3275007	0.23819524	2.5773931	20	—	—
244352 2002 LJ_{53}	16.2	X	76.30831	345.17285	288.97134	12.02156	0.2879819	0.23031619	2.6358442	20	11 14.4	20.8
244353 2002 LG_{61}	16.9	X	227.47197	185.35981	104.89956	6.84800	0.1137319	0.25922912	2.4360163	20	1 22.6	20.4
244354 2002 LA_{63}	15.9	X	335.88760	275.56714	88.51621	15.34877	0.1486245	0.22556161	2.6727557	20	10 12.5	19.0
244355 2002 MH	16.9	X	128.17797	73.83892	229.86836	3.04105	0.2041910	0.24112173	2.5564962	20	—	—
244356 2002 NC_{7}	16.0	X	333.66539	224.50576	140.15571	10.41456	0.1766637	0.22371775	2.6874213	20	10 2.8	18.6
244357 2002 NF_{7}	15.8	X	339.17851	97.70007	246.83049	13.62524	0.0531940	0.22153495	2.7050454	20	9 1.3	19.5
244358 2002 NJ_{15}	16.6	X	167.50824	192.01048	60.83371	5.48641	0.2583440	0.24227626	2.5483680	20	12 28.6	20.9
244359 2002 NT_{18}	16.0	X	132.00980	42.47306	253.31447	6.57221	0.1967502	0.24027591	2.5624922	20	—	—
244360 2002 NK_{27}	14.6	X	108.66068	312.34137	330.57052	26.58476	0.2153152	0.17676438	3.1444128	20	12 8.9	20.3
244361 2002 NN_{32}	15.6	X	356.93868	110.18231	227.33529	14.57937	0.2728365	0.22115096	2.7081757	20	10 17.2	18.1
244362 2002 NN_{38}	15.2	X	100.23278	32.48753	290.16279	16.67855	0.1465734	0.18209482	3.0827453	20	—	—
244363 2002 ND_{41}	15.5	X	82.69229	303.34465	326.21117	11.49535	0.0970781	0.17498099	3.1657417	20	10 15.1	20.4
244364 2002 NF_{41}	16.3	X	116.13871	202.60084	85.74591	6.48244	0.1147309	0.23674364	2.5879180	20	12 28.9	20.1
244365 2002 NY_{41}	16.4	X	56.16085	214.19840	98.62398	6.07352	0.2057784	0.23005482	2.6378402	20	12 6.7	20.4
244366 2002 NE_{45}	15.8	X	65.80933	334.70620	286.71272	12.85413	0.2259296	0.22571418	2.6715511	20	10 8.9	20.0
244367 2002 NB_{51}	16.4	X	73.30977	179.63105	162.04797	5.72543	0.1895212	0.23637634	2.5905982	20	—	—
244368 2002 NN_{55}	16.4	X	315.45006	211.86072	164.83828	8.28010	0.3094890	0.21974567	2.7197094	20	8 17.6	18.7
244369 2002 NF_{58}	15.8	X	238.33893	193.43989	210.99648	13.69685	0.1987869	0.21296012	2.7771789	20	6 19.6	20.4
244370 2002 OL_{14}	16.1	X	142.54930	169.23722	170.64701	11.33702	0.1485813	0.24548044	2.5261441	20	1 1.7	20.0
244371 2002 OL_{16}	15.9	X	38.98904	21.17827	268.02530	11.74342	0.1601377	0.22563322	2.6721902	20	10 2.9	19.6
244372 2002 OT_{19}	15.4	X	123.61274	108.37875	197.15652	15.17118	0.1386861	0.18416600	3.0595889	20	—	—
244373 2002 OD_{26}	16.8	X	146.75257	219.07936	111.68713	5.29964	0.1793062	0.24461955	2.5320675	20	—	—
244374 2002 OU_{31}	16.9	X	25.26207	0.70211	320.45643	2.10481	0.1076533	0.22678513	2.6631339	20	10 22.9	20.2
244375 2002 OB_{33}	15.8	X	203.20780	302.07901	301.75968	9.82476	0.0949216	0.18826098	3.0150592	20	—	—
244376 2002 PF_{5}	16.4	X	38.05141	50.74597	216.55765	7.44996	0.1370907	0.22073329	2.7115908	20	8 31.2	19.8
244377 2002 PM_{7}	15.8	X	315.86179	324.05445	314.17119	18.79646	0.1068971	0.20986901	2.8043820	20	4 15.7	19.9
244378 2002 PT_{8}	16.8	X	168.09176	89.44658	161.54688	6.36886	0.1756436	0.24077364	2.5589596	20	12 30.9	20.9
244379 2002 PK_{11}	17.0	X	320.29718	148.59193	202.98910	2.55280	0.1421669	0.21921920	2.7240620	20	8 11.9	19.9
244380 2002 PW_{14}	17.2	X	224.34620	124.06850	207.09368	2.95098	0.1890430	0.25828740	2.4419339	20	3 6.3	21.2
244381 2002 PH_{15}	16.4	X	46.90979	82.48895	182.88019	10.63283	0.1352567	0.22316965	2.6918197	20	9 12.8	19.8
244382 2002 PE_{26}	16.0	X	319.98259	182.95634	139.79278	9.48417	0.1485998	0.21588963	2.7519985	20	6 29.7	19.3
244383 2002 PY_{27}	16.2	X	349.22109	331.99924	313.97843	6.11762	0.0539654	0.21506686	2.7590128	20	7 4.5	19.6
244384 2002 PW_{29}	16.6	X	245.82044	37.85582	266.24758	2.34668	0.1834241	0.25753844	2.4466659	20	2 21.4	20.3
244385 2002 PF_{31}	15.2	X	154.01159	120.55321	160.10996	7.53806	0.0816894	0.18410407	3.0602751	20	—	—
244386 2002 PL_{38}	16.4	X	127.61232	80.26783	136.15422	12.05486	0.1397078	0.22855209	2.6493902	20	10 17.8	20.8
244387 2002 PF_{39}	15.8	X	272.24677	226.22922	147.18509	15.62644	0.1433895	0.21416551	2.7667485	20	6 26.9	19.9
244388 2002 PL_{64}	15.7	X	258.68005	56.63612	294.67646	10.37892	0.0368226	0.21179559	2.7873496	20	5 24.4	19.7
244389 2002 PK_{65}	15.7	X	348.01396	332.66278	347.05770	13.80159	0.2015362	0.21934426	2.7230265	20	8 25.4	18.1
244390 2002 PE_{69}	16.7	X	152.60260	80.16709	202.84447	10.98837	0.2810262	0.24096767	2.5575857	20	—	—
244391 2002 PB_{75}	16.7	X	29.19655	54.43100	255.12386	9.67054	0.2086343	0.22483586	2.6785042	20	10 27.2	20.2
244392 2002 PE_{89}	15.8	X	312.11724	148.50919	237.14380	13.07957	0.2540981	0.21964903	2.7205071	20	8 26.3	18.7
244393 2002 PS_{90}	16.7	X	0.51026	230.33491	148.47003	5.30940	0.2169568	0.22730025	2.6591088	20	12 18.7	19.6
244394 2002 PH_{97}	15.6	X	347.28663	235.02313	130.74682	10.33487	0.2623989	0.22220048	2.6996413	20	11 11.9	18.1
244395 2002 PB_{111}	16.0	X	126.50580	59.58390	290.12991	12.30594	0.0548817	0.24353383	2.5395875	20	—	—
244396 2002 PY_{111}	15.5	X	329.55095	267.71242	133.84611	16.53497	0.1717220	0.22620599	2.6676774	20	11 20.6	18.5
244397 2002 PY_{114}	14.9	X	67.57786	204.97314	171.89613	2.86940	0.2696520	0.12447168	3.9727297	20	—	—
244398 2002 PL_{116}	16.3	X	317.81171	139.53962	228.54263	12.92107	0.2149761	0.21945352	2.7221226	20	8 18.3	19.4
244399 2002 PX_{117}	17.3	X	88.92640	84.96020	195.59083	5.76020	0.2431950	0.23188545	2.6239389	20	12 1.9	21.7
244400 2002 PM_{118}	16.5	X	93.65275	88.59099	298.91939	10.05824	0.3144250	0.24112891	2.5564454	20	1 27.8	19.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
244401 2002 PL_{123}	16.2	X	34.86072	359.89821	258.33200	6.84439	0.1502969	0.21825194	2.7321045	20	8 15.1	19.6
244402 2002 PZ_{124}	16.0	X	285.49742	206.78507	156.65775	14.54918	0.1975488	0.21367270	2.7710011	20	6 23.1	19.9
244403 2002 PM_{126}	16.2	X	158.09957	169.97474	139.37910	5.33538	0.1819654	0.24404835	2.5360168	20	—	—
244404 2002 PL_{131}	16.7	X	73.59903	65.55442	228.26013	13.20325	0.2754344	0.22895263	2.6462993	20	12 6.5	21.2
244405 2002 PV_{136}	16.0	X	332.38488	255.85446	109.59013	5.70898	0.1829602	0.22240769	2.6979642	20	9 30.1	18.5
244406 2002 PH_{140}	16.6	X	169.07490	171.83261	136.46556	14.09173	0.1761061	0.24518508	2.5281724	20	—	—
244407 2002 PG_{141}	16.6	X	135.25516	88.19897	262.14675	10.19220	0.3080828	0.24304739	2.5429749	20	1 23.0	20.7
244408 2002 PK_{171}	16.6	X	316.67563	151.65941	196.39031	7.97376	0.0944685	0.21890202	2.7266927	20	8 3.2	20.0
244409 2002 PP_{171}	16.5	X	232.50047	336.05570	110.28733	5.23842	0.0937117	0.21955013	2.7213240	20	8 21.1	20.3
244410 2002 PW_{174}	16.2	X	256.80509	310.81072	64.88058	5.75773	0.1330404	0.21225536	2.7833230	20	6 11.0	20.0
244411 2002 PN_{178}	16.5	X	257.63808	280.42154	259.75498	8.25544	0.0498057	0.23877022	2.5732537	20	—	—
244412 2002 PQ_{185}	16.8	X	71.83769	183.51595	104.93044	4.10585	0.0771005	0.22856167	2.6493161	20	11 8.7	20.4
244413 2002 PQ_{186}	16.2	X	348.41383	321.05910	336.23172	12.49766	0.0948388	0.21626861	2.7487826	20	7 21.8	19.5
244414 2002 PJ_{189}	16.7	X	152.56089	52.45905	194.65124	2.80861	0.1751896	0.23786702	2.5797635	20	12 12.8	20.9
244415 2002 PH_{191}	16.3	X	70.37332	96.37176	120.56371	10.18385	0.0920358	0.21855589	2.7295708	20	8 4.9	19.9
244416 2002 QH	16.0	X	168.43765	343.81318	317.79174	14.19669	0.2749357	0.24405442	2.5359748	20	—	—
244417 2002 QP_{4}	15.9	X	116.41566	81.74077	318.71686	14.28929	0.1673948	0.19240118	2.9716493	20	2 23.6	20.3
244418 2002 QK_{6}	16.7	X	186.06350	90.25434	298.35688	21.01458	0.1268665	0.36684872	1.9326122	20	3 24.1	19.9
244419 2002 QV_{14}	16.4	X	186.22234	66.05979	201.13138	8.35635	0.2175849	0.24359089	2.5391909	20	—	—
244420 2002 QZ_{18}	15.8	X	290.49977	223.40518	125.18292	6.32097	0.0842426	0.21271543	2.7793083	20	6 27.4	19.5
244421 2002 QO_{45}	15.6	X	290.18870	269.76256	86.28836	10.60178	0.1740900	0.21345638	2.7728729	20	6 22.8	19.0
244422 2002 QA_{50}	16.3	X	36.86836	213.57677	125.75112	2.94702	0.0819962	0.23035248	2.6355673	20	11 30.3	19.7
244423 2002 QL_{55}	16.2	X	282.53415	7.03967	17.90237	6.32638	0.0503810	0.21692278	2.7432535	20	8 12.8	19.8
244424 2002 QX_{60}	16.0	X	201.05288	124.31836	310.26463	5.61209	0.0300814	0.21241773	2.7819044	20	7 3.2	19.8
244425 2002 QM_{62}	17.0	X	351.96097	121.19001	220.97379	0.87636	0.1466114	0.22198070	2.7014229	20	9 30.9	19.7
244426 2002 QF_{74}	17.2	X	158.48873	247.58299	63.14580	0.98814	0.1946211	0.24407427	2.5358373	20	—	—
244427 2002 QV_{78}	17.0	X	6.14786	2.74984	319.58898	1.17040	0.0846140	0.22202534	2.7010608	20	9 21.8	20.1
244428 2002 QH_{89}	16.4	X	32.46498	311.92983	326.41754	6.08535	0.0358514	0.21877050	2.7277855	20	8 25.9	20.0
244429 2002 QX_{92}	17.1	X	49.21895	261.52715	145.01366	5.93546	0.2492441	0.23645031	2.5900578	20	—	—
244430 2002 QH_{96}	16.4	X	3.00010	209.21236	27.41400	4.23392	0.0428958	0.21008262	2.8024807	20	5 16.8	20.0
244431 2002 QZ_{97}	16.9	X	135.66100	87.85825	141.49406	7.09491	0.0812847	0.22964290	2.6409937	20	11 7.3	20.9
244432 2002 QM_{99}	16.3	X	316.93288	241.82647	140.20688	14.39611	0.1587807	0.22057817	2.7128620	20	9 23.5	19.2
244433 2002 QT_{109}	16.9	X	127.37960	286.59005	315.86713	3.82290	0.0933572	0.23057201	2.6338942	20	11 11.3	20.9
244434 2002 QW_{117}	16.5	X	289.80341	85.85502	237.75457	4.30883	0.0383508	0.21073459	2.7966975	20	5 30.4	20.3
244435 2002 QT_{121}	16.6	X	344.45192	47.20428	282.60542	4.66814	0.0479169	0.21876040	2.7278694	20	8 24.9	20.1
244436 2002 RT_{7}	14.8	X	33.84332	95.31474	349.50892	13.96249	0.3844709	0.18124208	3.0924073	20	1 5.8	17.0
244437 2002 RT_{10}	16.1	X	104.82184	21.75791	338.68427	2.03860	0.1648639	0.18566413	3.0431081	20	—	—
244438 2002 RX_{44}	14.2	X	59.52906	236.34301	152.12535	9.64412	0.2304261	0.12350988	3.9933274	20	—	—
244439 2002 RC_{46}	16.4	X	126.68496	203.61813	117.09645	3.84109	0.2118036	0.23921036	2.5700963	20	—	—
244440 2002 RY_{48}	16.5	X	79.09194	162.87270	160.29105	12.75986	0.1945606	0.23153064	2.6266189	20	—	—
244441 2002 RY_{49}	16.0	X	310.53228	224.99281	161.20618	9.94235	0.2170140	0.21762463	2.7373522	20	9 5.1	18.6
244442 2002 RJ_{53}	16.1	X	299.52397	225.82649	129.96771	5.68382	0.1311174	0.21403894	2.7678392	20	7 13.8	19.4
244443 2002 RV_{56}	15.3	X	281.04154	220.08661	188.45715	10.52269	0.3066630	0.21402427	2.7679656	20	7 27.3	19.2
244444 2002 RT_{66}	15.8	X	117.73372	79.72715	275.51450	7.07060	0.1941788	0.18521204	3.0480580	20	1 8.9	20.3
244445 2002 RA_{69}	16.6	X	291.59234	16.31386	333.72723	3.83254	0.2047870	0.21199104	2.7856361	20	6 11.3	20.1
244446 2002 RQ_{70}	16.5	X	9.05580	83.46754	234.67809	6.99682	0.1536501	0.22117239	2.7080007	20	9 26.1	19.6
244447 2002 RE_{72}	16.5	X	37.40891	173.95416	158.72414	2.96049	0.1541743	0.22719385	2.6599389	20	12 2.4	20.0
244448 2002 RZ_{76}	16.2	X	51.08385	108.22964	174.61781	12.69677	0.0434712	0.22106646	2.7088657	20	9 29.5	19.7
244449 2002 RF_{97}	15.9	X	18.20146	168.76148	183.64002	13.82097	0.1714382	0.22373961	2.6872462	20	12 4.3	19.4
244450 2002 RQ_{102}	15.6	X	7.93045	150.87569	210.65073	10.96470	0.1730548	0.22080429	2.7110096	20	11 29.4	18.8
244451 2002 RE_{118}	15.9	X	336.38242	318.07052	6.74697	12.01798	0.1204487	0.21489315	2.7604994	20	8 10.4	19.1
244452 2002 RE_{122}	15.8	X	268.98142	331.36627	72.07342	9.19238	0.2185864	0.21291955	2.7775317	20	7 22.1	19.7
244453 2002 RC_{128}	16.4	X	38.00281	79.50818	241.57103	10.41033	0.1983734	0.22635169	2.6665325	20	11 24.1	19.9
244454 2002 RJ_{132}	15.3	X	354.49480	98.93182	329.90080	20.10854	0.3036177	0.17275420	3.1928877	20	—	—
244455 2002 RL_{138}	15.8	X	316.78614	345.21094	48.72094	11.12938	0.1693361	0.22101562	2.7092811	20	10 10.4	18.5
244456 2002 RS_{141}	17.7	X	68.79306	123.00937	255.73870	2.31980	0.2777256	0.29105024	2.2550564	20	—	—
244457 2002 RT_{151}	16.4	X	342.53531	38.68961	292.70103	8.49015	0.1730699	0.21770376	2.7366889	20	8 23.2	19.1
244458 2002 RM_{157}	16.9	X	19.34903	114.38077	219.68131	1.46540	0.1032173	0.22324369	2.6912245	20	10 31.1	20.1
244459 2002 RW_{167}	17.0	X	115.49711	285.07802	1.34732	2.49830	0.2075030	0.23333131	2.6130880	20	12 27.8	21.3
244460 2002 RW_{171}	15.1	X	139.83724	264.55647	2.31785	9.07821	0.0634999	0.17493807	3.1662594	20	12 12.8	20.0
244461 2002 RU_{173}	15.1	X	353.74246	203.32937	183.13621	12.84723	0.0210778	0.17209487	3.2010376	20	11 13.9	19.7
244462 2002 RQ_{174}	15.8	X	306.68547	113.47560	258.86090	5.21325	0.0661536	0.21728347	2.7402168	20	8 23.8	19.3
244463 2002 RM_{178}	15.0	X	106.12637	129.24421	155.97054	11.20796	0.0283439	0.17627633	3.1502139	20	11 29.6	19.7
244464 2002 RY_{178}	16.8	X	22.95561	354.77953	8.88005	2.03132	0.2515818	0.22622623	2.6675183	20	—	—
244465 2002 RO_{184}	15.3	X	158.93447	44.48483	301.10741	9.35978	0.1556045	0.19071250	2.9891654	20	2 1.5	19.9
244466 2002 RD_{189}	16.6	X	321.92728	196.01634	184.13289	12.66877	0.1837478	0.21992764	2.7182090	20	9 24.7	19.2
244467 2002 RQ_{203}	15.8	X	351.48793	333.34028	334.29966	8.47536	0.1377048	0.21816371	2.7328411	20	8 10.5	18.5
244468 2002 RU_{205}	16.9	X	124.85026	358.41699	332.02989	4.33345	0.1350747	0.23902907	2.5713957	20	—	—
244469 2002 RC_{237}	15.9	X	101.09102	4.96535	46.04905	8.87987	0.1144111	0.19098131	2.9863598	20	2 18.6	20.2
244470 2002 RR_{246}	16.0	X	213.71770	305.94470	154.57361	12.79173	0.1658526	0.21649776	2.7468427	20	8 8.4	20.5
244471 2002 RD_{257}	16.5	X	157.47545	148.89215	112.92414	1.00038	0.0992785	0.23511280	2.5998714	20	—	—
244472 2002 RW_{260}	16.2	X	147.25426	250.76399	82.62028	9.12117	0.2926253	0.24408573	2.5357579	20	1 14.4	20.3
244473 2002 RT_{280}	16.6	X	9.87757	185.11834	135.49105	6.45242	0.0738632	0.22192257	2.7018946	20	9 27.1	20.0
244474 2002 SA_{6}	16.0	X	3.40862	56.81802	11.82083	9.57525	0.2276172	0.17443257	3.1723737	20	—	—
244475 2002 SS_{11}	15.6	X	61.50401	3.88993	6.57549	4.78307	0.1048906	0.17664365	3.1458453	20	—	—
244476 2002 SJ_{15}	16.1	X	140.94256	18.14174	275.76616	12.35401	0.2429132	0.23700755	2.5859965	20	—	—
244477 2002 SJ_{17}	17.1	X	82.86085	100.12460	197.21570	3.02710	0.2064844	0.22843289	2.6503117	20	12 12.9	21.4
244478 2002 SY_{22}	13.8	X	80.64874	321.37161	41.30343	8.86667	0.1665494	0.12320868	3.9998329	20	—	—
244479 2002 SA_{26}	16.7	X	78.33088	231.71162	80.47135	3.22406	0.2432092	0.22943337	2.6426014	20	12 29.3	20.9
244480 2002 SA_{39}	15.9	X	105.72447	281.40472	64.57606	2.02330	0.2180892	0.18144306	3.0901233	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
244481 2002 SH_{58}	14.9	X	14.31900	351.82209	40.90124	23.85964	0.1785905	0.17188278	3.2036702	20	—	—
244482 2002 SZ_{59}	15.7	X	216.27517	305.49110	38.66367	11.75483	0.1140686	0.19933239	2.9023568	20	3 26.9	20.3
244483 2002 ST_{61}	16.9	X	307.51815	130.87702	203.41396	7.10741	0.1442592	0.21264741	2.7799009	20	6 24.3	20.3
244484 2002 SW_{71}	16.1	X	17.96212	267.98800	83.23058	12.23804	0.2963070	0.22413512	2.6840840	20	12 20.5	19.3
244485 2002 TF_{1}	15.2	X	80.34640	335.52467	26.80745	12.46835	0.0624259	0.17974527	3.1095514	20	—	—
244486 2002 TU_{6}	14.9	X	40.01331	15.45228	17.72676	17.20806	0.1009364	0.17630309	3.1498952	20	—	—
244487 2002 TB_{16}	16.6	X	102.79668	173.63603	134.00302	3.20174	0.2774562	0.23365664	2.6106619	20	—	—
244488 2002 TV_{19}	14.5	X	104.11164	313.95127	24.79819	3.05674	0.2516677	0.12472701	3.9673060	20	—	—
244489 2002 TD_{39}	16.4	X	154.08121	330.92413	33.44346	3.48454	0.1915247	0.24439954	2.5335869	20	2 18.8	20.4
244490 2002 TM_{39}	15.9	X	83.66022	134.94376	229.83872	12.13473	0.1954030	0.23188237	2.6239621	20	—	—
244491 2002 TH_{51}	16.0	X	55.61152	321.51358	37.92179	13.48213	0.2007750	0.22756470	2.6570483	20	—	—
244492 2002 TZ_{52}	15.6	X	124.98383	163.16009	250.79000	6.37232	0.2486829	0.18770055	3.0210577	20	3 27.9	20.6
244493 2002 TB_{62}	15.9	X	295.19015	100.25444	246.19258	8.10754	0.1757986	0.21058284	2.7980410	20	6 16.7	19.4
244494 2002 TB_{63}	16.4	X	328.45069	112.78424	233.00089	5.06148	0.0342437	0.21392980	2.7687805	20	8 22.1	20.0
244495 2002 TB_{76}	15.8	X	315.46764	331.90888	352.05033	9.44181	0.2206596	0.21110968	2.7933838	20	6 10.9	19.0
244496 2002 TQ_{76}	15.9	X	267.52184	152.37668	228.98195	5.72749	0.1255636	0.20903696	2.8118188	20	7 2.5	19.8
244497 2002 TZ_{80}	15.9	X	301.00364	223.99079	160.34724	8.93357	0.2884396	0.21295628	2.7772123	20	7 30.0	18.8
244498 2002 TF_{84}	15.6	X	294.76243	322.24830	33.58236	16.03987	0.2027404	0.21132056	2.7915252	20	6 23.7	19.4
244499 2002 TK_{90}	15.1	X	0.75804	221.69053	211.18081	26.81538	0.2152879	0.17323632	3.1869611	20	—	—
244500 2002 TE_{93}	16.2	X	17.24653	215.18844	7.14887	11.06703	0.0663208	0.20449001	2.8533474	20	5 16.8	20.0
244501 2002 TB_{117}	15.5	X	98.13994	119.72074	277.67796	8.10025	0.1601894	0.18544990	3.0454512	20	1 30.6	19.8
244502 2002 TY_{121}	15.7	X	267.60968	354.45168	357.85468	12.07640	0.1968719	0.20581829	2.8410579	20	5 11.8	20.1
244503 2002 TB_{123}	15.5	X	50.49619	167.28511	258.82760	9.03383	0.1518195	0.18318274	3.0705277	20	—	—
244504 2002 TV_{133}	15.8	X	20.25994	31.24711	277.54002	7.63338	0.2853730	0.22199795	2.7012829	20	10 23.6	19.0
244505 2002 TM_{134}	16.0	X	211.12877	104.60116	291.49593	6.05922	0.1168188	0.20315798	2.8658060	20	5 18.9	20.6
244506 2002 TG_{137}	16.1	X	146.78751	53.84433	243.97192	8.36387	0.2074869	0.23731512	2.5837616	20	—	—
244507 2002 TK_{154}	15.3	X	151.38674	169.90451	226.25103	11.28096	0.0622317	0.19724676	2.9227800	20	3 14.1	19.7
244508 2002 TM_{155}	15.7	X	251.78612	128.55416	205.43560	12.04923	0.0682205	0.20409137	2.8570617	20	4 21.1	19.6
244509 2002 TP_{155}	16.3	X	328.73995	89.55390	225.01580	6.71337	0.1655049	0.21383112	2.7696322	20	7 1.5	19.2
244510 2002 TN_{158}	16.4	X	75.58091	168.87558	158.56113	14.86112	0.2624846	0.23002701	2.6380528	20	—	—
244511 2002 TK_{163}	15.8	X	3.79227	224.19977	110.33145	14.30709	0.1833793	0.21794606	2.7346602	20	10 23.7	19.1
244512 2002 TJ_{164}	16.3	X	88.10589	232.51200	123.94320	13.66764	0.1973143	0.23320027	2.6140668	20	—	—
244513 2002 TQ_{169}	16.0	X	183.88996	65.25855	260.48314	11.11358	0.0544231	0.24548106	2.5261399	20	1 18.7	19.7
244514 2002 TS_{172}	16.3	X	93.82181	132.37588	260.60438	11.51421	0.2599139	0.24130123	2.5552282	20	1 23.9	19.5
244515 2002 TT_{176}	15.0	X	212.27566	176.40334	230.07375	15.66603	0.3079587	0.20236697	2.8732691	20	5 25.3	20.2
244516 2002 TP_{182}	16.4	X	19.80557	141.42131	208.18665	6.12589	0.1225838	0.22421217	2.6834690	20	11 24.9	19.8
244517 2002 TU_{198}	15.1	X	19.92242	165.17773	251.21413	15.67425	0.1878280	0.17686092	3.1432684	20	—	—
244518 2002 TY_{199}	16.1	X	66.08339	96.13216	275.48539	12.88050	0.1662347	0.23351608	2.6117094	20	—	—
244519 2002 TM_{207}	15.3	X	31.77596	195.29472	220.86770	16.26815	0.1884193	0.17562144	3.1580405	20	—	—
244520 2002 TO_{211}	16.3	X	51.46793	211.22940	125.09172	14.23770	0.2313662	0.22696585	2.6617200	20	—	—
244521 2002 TM_{212}	16.8	X	133.73778	220.83277	119.80951	12.29110	0.2539398	0.24160114	2.5531132	20	1 6.9	20.6
244522 2002 TW_{221}	15.2	X	265.54985	213.28399	201.77489	34.64947	0.2193468	0.21480406	2.7612627	20	7 24.6	19.9
244523 2002 TJ_{222}	15.9	X	119.05850	65.02716	248.07145	8.72811	0.1501210	0.23518039	2.5993733	20	—	—
244524 2002 TO_{222}	15.6	X	342.55694	166.79905	209.17911	9.10218	0.2544263	0.22001654	2.7174767	20	11 10.3	17.7
244525 2002 TQ_{232}	14.7	X	77.30846	43.67362	261.55710	15.12345	0.1005738	0.17039959	3.2222336	20	11 25.2	19.6
244526 2002 TU_{232}	15.7	X	48.60915	42.51487	241.33496	17.62585	0.3132822	0.22265375	2.6959761	20	11 3.6	19.7
244527 2002 TT_{238}	14.9	X	54.57248	5.52237	43.81424	18.43873	0.2105185	0.17640820	3.1486438	20	—	—
244528 2002 TH_{243}	16.1	X	41.95234	245.16434	26.56058	6.87140	0.0447057	0.21326663	2.7745174	20	9 3.3	19.8
244529 2002 TG_{269}	16.4	X	161.96630	346.79494	347.18353	6.08721	0.1270910	0.24366760	2.5386579	20	1 14.8	20.2
244530 2002 TX_{278}	15.2	X	29.97860	194.37265	224.96997	8.81174	0.2011925	0.17600635	3.1534346	20	—	—
244531 2002 TW_{283}	16.5	X	87.26643	81.85467	281.16183	3.07770	0.2781992	0.23448251	2.6045283	20	—	—
244532 2002 TX_{299}	16.0	X	300.49492	89.80028	250.94019	4.70612	0.0908040	0.20707103	2.8295877	20	6 29.9	19.7
244533 2002 TX_{378}	16.8	X	4.49924	115.32921	206.19714	4.39068	0.1112387	0.21730325	2.7400505	20	9 18.9	19.8
244534 2002 TP_{383}	16.6	X	140.31040	61.73620	30.37837	12.18102	0.0547139	0.20058901	2.8902226	20	5 11.4	20.8
244535 2002 TV_{383}	16.0	X	31.36905	281.85336	131.73405	17.90517	0.2888015	0.23144642	2.6272561	20	—	—
244536 2002 UQ_{2}	16.3	X	66.69743	150.39652	303.39668	17.59813	0.0812102	0.35351255	1.9809165	20	1 18.3	17.7
244537 2002 UE_{29}	16.3	X	161.03089	15.58920	325.20724	8.45930	0.2954007	0.24334634	2.5408918	20	2 3.1	20.6
244538 2002 UC_{30}	15.7	X	329.81738	255.91056	86.06740	8.98323	0.2743388	0.21524793	2.7574653	20	8 9.0	17.9
244539 2002 UT_{35}	14.7	X	245.49151	132.60308	47.74828	22.60983	0.0340234	0.17156041	3.2076822	20	12 28.5	19.5
244540 2002 UT_{70}	15.3	X	24.23946	293.43090	151.19389	14.30765	0.2860588	0.17507875	3.1645631	20	—	—
244541 2002 UY_{70}	15.4	X	9.16641	356.93952	112.44581	16.75022	0.2370812	0.17497815	3.1657759	20	—	—
244542 2002 UK_{71}	16.0	X	101.09493	187.27109	293.01008	3.88626	0.0494978	0.19597531	2.9354080	20	4 29.8	20.2
244543 2002 UG_{72}	16.1	X	52.30955	220.88036	249.68348	2.58127	0.1982293	0.18472159	3.0534509	20	3 1.9	19.7
244544 2002 UO_{73}	15.4	X	157.94522	298.45028	35.67668	15.76476	0.0871666	0.18459635	3.0548318	20	1 17.6	20.3
244545 2002 UX_{77}	16.8	X	317.76427	206.71482	123.80837	2.56491	0.0869333	0.20876953	2.8142195	20	7 13.6	20.1
244546 2002 UD_{78}	16.3	X	313.60972	285.44684	76.74023	5.93378	0.0524525	0.21391002	2.7689512	20	8 26.9	19.9
244547 2002 UO_{78}	15.9	X	81.23273	190.12804	232.87237	5.21672	0.0946951	0.18436998	3.0573319	20	1 31.0	20.1
244548 2002 VS_{11}	15.8	X	52.37934	106.59409	241.01214	16.18640	0.2130408	0.22545072	2.6736320	20	—	—
244549 2002 VR_{16}	15.7	X	52.54590	112.11614	291.79011	4.76717	0.1524752	0.17709961	3.1404435	20	—	—
244550 2002 VP_{35}	16.1	X	60.82676	186.13506	240.48790	10.87193	0.1562305	0.23498513	2.6008130	20	1 1.6	18.9
244551 2002 VJ_{45}	15.4	X	42.94081	4.16395	78.70945	12.11191	0.1904400	0.17845661	3.1245031	20	1 10.5	18.9
244552 2002 VN_{50}	15.7	X	327.61550	286.24589	62.62341	12.88828	0.1616821	0.21272138	2.7792564	20	8 28.4	18.9
244553 2002 VN_{56}	17.0	X	164.29835	307.18834	83.44203	7.54890	0.1426985	0.30437255	2.1887646	20	3 27.3	20.2
244554 2002 VX_{57}	16.3	X	171.67411	254.78803	74.02298	8.58125	0.2209431	0.24347305	2.5400101	20	1 24.6	20.5
244555 2002 VX_{59}	15.2	X	28.02922	42.28474	50.10026	18.07131	0.2002674	0.17736334	3.1373295	20	—	—
244556 2002 VA_{61}	14.7	X	287.85873	132.41619	238.20033	17.14831	0.0775802	0.15277399	3.4655308	20	7 15.7	19.8
244557 2002 VY_{62}	15.2	X	142.45501	127.68519	233.91579	14.66143	0.0688144	0.18454957	3.0553480	20	1 23.9	19.9
244558 2002 VC_{83}	14.9	X	54.97158	311.83043	76.70995	17.19688	0.1440906	0.17376008	3.1805536	20	—	—
244559 2002 VV_{85}	16.7	X	248.62627	325.99572	275.16993	17.68991	0.0297076	0.35056855	1.9919912	20	—	—
244560 2002 VG_{92}	15.4	X	88.99016	100.77408	320.03180	20.66467	0.1856368	0.23800026	2.5788006	20	2 13.6	18.4

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		°	°	°	°		°				
244561 2002 VT_{101}	14.9	X	56.96876	153.22117	246.28896	17.17457	0.2454268	0.17438147	3.1729934	20	—	—
244562 2002 VE_{104}	15.5	X	328.54128	72.06004	256.11393	8.09785	0.2308636	0.21037680	2.7998676	20	7 13.6	18.1
244563 2002 VG_{107}	15.3	X	87.31459	124.48148	263.11735	7.62202	0.0792101	0.17890847	3.1192399	20	—	—
244564 2002 VF_{116}	15.8	X	89.44891	146.96406	301.21183	11.85052	0.2300181	0.24354155	2.5395338	20	3 22.4	19.3
244565 2002 VZ_{116}	16.5	X	98.97648	290.74115	21.35159	12.13503	0.2832807	0.22958813	2.6414137	20	—	—
244566 2002 VC_{117}	16.2	X	73.20426	359.59576	309.76207	8.05880	0.1385454	0.22263573	2.6961216	20	12 10.3	20.3
244567 2002 VR_{126}	15.3	X	33.55903	76.93209	60.61354	26.53482	0.2115469	0.18226056	3.0808762	20	3 24.5	19.3
244568 2002 VC_{140}	15.5	X	344.30508	294.19870	16.35915	14.54830	0.2233970	0.21089711	2.7952606	20	8 4.3	18.3
244569 2002 VD_{141}	15.9	X	2.47755	187.99364	251.33309	10.47899	0.1572340	0.17314962	3.1880248	20	—	—
244570 2002 VP_{143}	15.5	X	241.93602	122.30402	67.65575	15.08038	0.0724796	0.17079842	3.2172155	20	12 31.4	20.1
244571 2002 WU	15.2	X	71.29360	109.78652	283.40580	27.68329	0.3064237	0.22993840	2.6387306	20	—	—
244572 2002 WV_{5}	15.9	X	351.39564	235.19148	136.99412	14.96569	0.2051645	0.21840837	2.7307998	20	11 22.4	19.0
244573 2002 WW_{10}	15.5	X	69.04313	17.34948	98.78437	11.80785	0.2367169	0.18468104	3.0538979	20	4 18.6	19.6
244574 2002 WZ_{14}	16.2	X	120.99664	163.48581	190.63769	6.29189	0.1460863	0.29132426	2.2536421	20	—	—
244575 2002 XX	15.5	X	15.22329	197.80090	260.60794	10.46775	0.1952133	0.17617720	3.1513955	20	—	—
244576 2002 XA_{3}	15.6	X	30.33528	263.74348	218.63424	15.35928	0.2169227	0.17890188	3.1193166	20	2 2.2	19.1
244577 2002 XF_{5}	16.3	X	325.26985	287.28045	246.54236	23.15613	0.2127976	0.28978447	2.2616183	20	—	—
244578 2002 XD_{6}	15.7	X	160.12388	330.06798	87.01907	17.92376	0.1096134	0.19270156	2.9685604	20	5 2.7	20.6
244579 2002 XA_{8}	15.7	X	16.02453	89.46798	235.82241	14.14331	0.1560232	0.21555784	2.7548218	20	10 17.2	19.1
244580 2002 XU_{8}	15.5	X	49.40499	31.21894	72.50430	17.43814	0.0606589	0.18209387	3.0827561	20	2 10.6	19.9
244581 2002 XR_{9}	15.5	X	112.02137	166.13946	254.87779	9.09111	0.0511375	0.18520666	3.0481171	20	2 27.2	20.0
244582 2002 XH_{10}	15.9	X	92.95937	91.15582	241.60751	11.10510	0.2381935	0.23009427	2.6375387	20	—	—
244583 2002 XM_{16}	15.8	X	110.04764	57.29194	294.87423	12.51555	0.1920428	0.23474521	2.6025848	20	—	—
244584 2002 XD_{30}	16.1	X	78.87276	69.31972	302.14215	10.46501	0.2093113	0.23231578	2.6206976	20	—	—
244585 2002 XA_{31}	16.5	X	43.62766	108.63966	284.70366	5.34280	0.1652345	0.22824227	2.6517871	20	—	—
244586 2002 XZ_{31}	16.1	X	16.06327	113.92720	275.89573	11.12425	0.1813992	0.22335711	2.6903133	20	—	—
244587 2002 XS_{47}	15.8	X	94.45499	51.12412	311.61332	6.78341	0.0983517	0.23084988	2.6317802	20	—	—
244588 2002 XK_{54}	15.0	X	61.58482	176.23217	240.33845	24.32112	0.0728164	0.17646197	3.1480042	20	—	—
244589 2002 XK_{62}	15.1	X	147.39427	296.56010	84.85579	11.38529	0.1290671	0.18596941	3.0397769	20	3 8.1	20.0
244590 2002 XS_{62}	15.4	X	128.98963	347.43283	97.28257	14.63088	0.1245778	0.19013069	2.9952603	20	5 4.5	20.2
244591 2002 XZ_{63}	15.5	X	15.35072	359.71290	75.12075	17.81170	0.1123739	0.17063234	3.2193028	20	—	—
244592 2002 XX_{69}	16.0	X	188.34377	74.38925	92.37162	11.88220	0.1692204	0.26336830	2.4104255	20	10 18.2	19.9
244593 2002 XB_{70}	15.4	X	41.09089	20.55396	100.12996	17.89480	0.1778612	0.18127881	3.0919896	20	3 1.1	19.2
244594 2002 XA_{83}	15.8	X	111.92015	272.06933	200.30879	12.45613	0.1381540	0.19070169	2.9892783	20	5 17.5	20.3
244595 2002 XT_{83}	16.1	X	13.74241	246.45474	215.19545	11.37558	0.2758763	0.22731077	2.6590268	20	—	—
244596 2002 XJ_{84}	15.2	X	30.48928	311.26760	118.13253	27.44350	0.1751603	0.17379551	3.1801213	20	—	—
244597 2002 XN_{84}	15.7	X	30.64982	124.24024	359.53440	28.14485	0.2015099	0.23600261	2.5933324	20	2 11.8	18.6
244598 2002 XJ_{89}	15.4	X	273.16494	326.39688	112.82624	23.79468	0.1728888	0.21227237	2.7831743	20	9 30.3	19.5
244599 2002 XP_{118}	16.2	X	250.48604	295.76779	71.28249	10.44960	0.1413235	0.20184739	2.8781977	20	5 23.4	20.4
244600 2002 XX_{118}	16.2	X	349.73098	330.94740	226.18378	7.74804	0.0177851	0.18862065	3.0112251	20	3 8.0	20.5
244601 2002 YQ_{1}	15.6	X	13.39368	137.99776	276.97066	7.98579	0.2555190	0.22290203	2.6939738	20	—	—
244602 2002 YP_{3}	15.0	X	10.13096	285.11641	78.97869	30.54319	0.3644889	0.21829197	2.7317705	20	—	—
244603 2002 YH_{17}	15.1	X	145.68036	270.83119	89.42373	11.13358	0.2184993	0.18412424	3.0600515	20	2 15.9	20.2
244604 2002 YH_{23}	15.9	X	58.30771	147.32266	232.04169	2.81204	0.2653256	0.22739556	2.6583657	20	—	—
244605 2002 YX_{28}	17.0	X	16.10706	13.81066	111.64447	5.69806	0.0907120	0.28772109	2.2724182	20	—	—
244606 2002 YA_{30}	16.1	X	315.24414	35.31192	91.19281	8.98187	0.2837416	0.16511703	3.2905978	20	—	—
244607 2002 YX_{34}	15.3	X	326.58669	124.61987	241.64957	12.09804	0.2052055	0.21187163	2.7866826	20	9 3.9	18.3
244608 2003 AG_{5}	15.5	X	87.74292	313.79361	101.18551	10.38813	0.1351865	0.17774704	3.1328130	20	2 9.2	19.8
244609 2003 AV_{7}	17.3	X	60.34478	266.26193	252.11221	4.06071	0.1125891	0.29956160	2.2121367	20	4 29.8	19.5
244610 2003 AZ_{10}	15.4	X	98.85825	190.72965	235.60426	16.15471	0.1832752	0.18291290	3.0735468	20	3 5.3	20.1
244611 2003 AH_{13}	16.0	X	95.39685	247.65109	135.21940	15.76263	0.2816495	0.23283224	2.6168207	20	1 20.7	19.3
244612 2003 AO_{19}	15.4	X	163.53931	352.85294	70.32468	9.89968	0.0783999	0.19116380	2.9844589	20	5 7.0	19.9
244613 2003 AU_{34}	14.8	X	107.28225	288.95179	98.52748	19.79364	0.2129895	0.18024583	3.1037917	20	2 11.1	19.6
244614 2003 AQ_{50}	14.6	X	132.31425	271.50294	98.28099	27.01413	0.2176951	0.17893940	3.1188805	20	2 17.0	19.9
244615 2003 AW_{54}	17.1	X	247.82955	45.54052	358.05672	4.17106	0.1140636	0.31275238	2.1494910	20	7 16.4	19.6
244616 2003 AR_{62}	15.3	X	76.22559	118.35648	288.58634	25.84322	0.2230210	0.17609443	3.1523829	20	1 21.9	19.4
244617 2003 AQ_{65}	15.7	X	47.65049	97.65269	335.82219	11.85314	0.1696405	0.23000429	2.6382266	20	—	—
244618 2003 AN_{74}	14.5	X	103.75550	309.37052	84.57451	23.53931	0.2499701	0.17894199	3.1188504	20	2 24.5	19.5
244619 2003 AP_{88}	16.2	X	139.13319	234.70664	152.08372	12.82967	0.3191339	0.24362965	2.5389216	20	3 14.3	20.5
244620 2003 AD_{94}	15.4	X	23.09491	340.34893	148.46218	28.89041	0.1589924	0.17295464	3.1904203	20	2 1.6	19.1
244621 2003 BN_{11}	15.3	X	67.01386	346.55269	130.63608	18.73927	0.1328294	0.17871341	3.1215092	20	4 2.5	19.7
244622 2003 BC_{13}	16.7	X	335.06001	218.03299	292.42297	6.12142	0.1129952	0.28377980	2.2934102	20	—	—
244623 2003 BD_{17}	15.3	X	182.14036	198.69763	338.71170	15.97204	0.1687641	0.20337317	2.8637841	20	10 5.5	20.2
244624 2003 BO_{18}	15.1	X	124.17392	269.85732	135.22867	17.64422	0.1373069	0.17815934	3.1279777	20	3 12.2	20.0
244625 2003 BS_{24}	16.8	X	3.14524	279.24523	200.99172	7.05565	0.2675513	0.22639058	2.6662271	20	—	—
244626 2003 BD_{29}	17.1	X	135.65553	121.33273	309.89460	4.61357	0.0784267	0.29784633	2.2206215	20	4 5.6	19.9
244627 2003 BL_{29}	17.1	X	123.68345	337.01455	146.73864	8.33903	0.1142693	0.30436416	2.1888048	20	6 12.2	20.1
244628 2003 BK_{50}	15.3	X	105.96493	281.20072	133.78015	26.71768	0.2493263	0.18026872	3.1035289	20	3 19.9	20.3
244629 2003 BV_{51}	15.7	X	64.89819	85.95835	325.03216	10.41467	0.3018662	0.22917534	2.6445846	20	1 12.7	17.9
244630 2003 BD_{59}	16.2	X	357.80811	280.90889	145.29689	5.93190	0.0343625	0.21703475	2.7423099	20	—	—
244631 2003 BA_{71}	15.5	X	50.95879	34.57802	329.28047	14.34562	0.2736358	0.21645790	2.7471798	20	—	—
244632 2003 BA_{74}	16.3	X	129.87600	223.99667	18.87555	7.73288	0.2017597	0.26186445	2.4196452	20	11 20.4	20.4
244633 2003 BJ_{74}	15.3	X	129.83341	333.25588	83.70939	13.05693	0.0779578	0.18047949	3.1011122	20	3 29.3	20.1
244634 2003 CD_{15}	17.5	X	123.90340	333.25456	104.20304	4.69276	0.1182919	0.29654124	2.2271321	20	4 10.0	20.4
244635 2003 DR_{2}	17.7	X	120.59105	320.43456	162.07784	2.63558	0.0501535	0.30027452	2.2086339	20	5 28.9	20.4
244636 2003 ED_{2}	16.9	X	26.30190	40.31545	112.82044	8.12314	0.0534017	0.28940667	2.2635861	20	2 21.4	19.3
244637 2003 EQ_{7}	14.9	X	303.81094	335.16394	305.88752	9.03013	0.1333075	0.18082413	3.0971706	20	4 5.9	19.3
244638 2003 ET_{9}	17.3	X	19.43603	349.19241	234.86567	2.33847	0.1709746	0.29547751	2.2324741	20	6 3.6	18.6
244639 2003 EB_{18}	17.5	X	52.35067	137.67909	97.65540	2.00691	0.0973627	0.30414902	2.1898369	20	8 14.9	19.8
244640 2003 EP_{46}	17.4	X	12.88331	290.17518	265.34141	6.00206	0.1043593	0.29192985	2.2505243	20	3 25.4	19.5

Planet		H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
		m		°	°	°	°		°				
244641	2003 FU_{13}	17.4	X	348.64556	156.41886	41.14243	3.16684	0.1491237	0.28603198	2.2813556	20	2 12.6	19.4
244642	2003 FD_{16}	16.9	X	347.13173	298.57782	277.11330	6.09027	0.1016519	0.28721176	2.2751039	20	3 9.1	19.4
244643	2003 FR_{17}	17.5	X	103.13179	131.37040	346.31561	5.31246	0.0897137	0.29504124	2.2346743	20	4 30.6	20.3
244644	2003 FZ_{45}	15.5	X	19.06781	359.12464	175.73469	9.24120	0.0806912	0.17320278	3.1873724	20	3 24.4	19.4
244645	2003 FL_{82}	15.8	X	282.28894	176.61325	182.50397	21.89887	0.0265704	0.24235440	2.5478202	20	7 8.2	19.7
244646	2003 FM_{88}	16.9	X	351.15863	134.62199	119.56294	4.31088	0.1262789	0.29313757	2.2443387	20	5 20.5	18.8
244647	2003 FF_{96}	16.8	X	331.48318	324.98708	227.21479	6.00768	0.0708238	0.28294036	2.2979440	20	1 17.7	19.6
244648	2003 FZ_{118}	15.5	X	52.61299	62.59319	180.82277	9.43535	0.1404962	0.18676393	3.0311497	20	8 17.7	19.7
244649	2003 FE_{131}	16.5	X	217.94498	152.30111	42.77848	7.28646	0.0203019	0.26322535	2.4112981	20	—	—
244650	2003 GZ	15.9	X	287.82910	83.04212	174.09791	13.90375	0.1347940	0.22479601	2.6788207	20	2 13.9	19.8
244651	2003 GF_3	16.6	X	225.87514	50.95192	181.78983	6.44781	0.0960621	0.27211924	2.3584674	20	—	—
244652	2003 GH_7	16.5	X	181.89033	240.18136	8.10372	7.04150	0.0756130	0.26642127	2.3919759	20	—	—
244653	2003 GY_{38}	17.3	X	66.15726	4.13555	68.88747	6.51413	0.1168866	0.27984273	2.3148705	20	1 6.5	19.5
244654	2003 HR_9	14.9	X	332.17789	188.21315	81.70155	13.15893	0.1769227	0.17430835	3.1738806	20	5 8.6	18.7
244655	2003 HS_{10}	16.5	X	4.25008	139.94014	188.25199	6.97938	0.2034413	0.30164365	2.2019456	20	11 4.4	18.4
244656	2003 HG_{12}	16.4	X	192.07617	140.74777	95.43964	7.22536	0.0895817	0.26368950	2.4084677	20	—	—
244657	2003 HV_{17}	17.6	X	10.47506	58.92081	98.48380	1.85264	0.1565558	0.28318219	2.2966356	20	1 22.8	19.2
244658	2003 HX_{20}	15.7	X	66.63805	153.04316	74.31737	8.42579	0.2228293	0.18480602	3.0525208	20	9 2.4	20.2
244659	2003 HN_{26}	17.5	X	301.74115	309.90234	195.26840	5.64027	0.0639772	0.27174155	2.3606522	20	—	—
244660	2003 HX_{26}	17.1	X	351.57624	228.48365	81.01869	6.97362	0.2291480	0.29753226	2.2221840	20	9 10.0	18.4
244661	2003 HN_{27}	17.0	X	303.76409	51.76455	204.33363	7.93304	0.1497733	0.28380871	2.2932544	20	2 22.0	19.9
244662	2003 HK_{28}	17.0	X	356.53464	42.21773	199.76447	5.51515	0.0758769	0.29143845	2.2530534	20	5 13.1	19.0
244663	2003 HH_{53}	16.7	X	164.59982	322.37290	288.34529	7.63998	0.1021048	0.26104169	2.4247267	20	—	—
244664	2003 HN_{53}	17.1	X	44.48085	155.11968	84.40571	4.76889	0.1375249	0.29985586	2.2106892	20	8 16.8	19.4
244665	2003 HX_{57}	16.0	X	110.00828	190.96642	97.50211	7.44344	0.1698756	0.25546322	2.4598981	20	12 28.5	19.8
244666	2003 JT_1	17.7	X	283.33362	247.31014	52.99894	14.23334	0.0927430	0.40230153	1.8173347	20	4 5.6	19.5
244667	2003 JH_5	16.2	X	134.26192	205.50225	65.54540	8.18041	0.1836539	0.25771999	2.4455168	20	12 28.8	20.2
244668	2003 KF_6	15.6	X	247.79654	9.02994	44.39237	17.19775	0.0744489	0.18610464	3.0383042	20	7 31.9	20.3
244669	2003 KE_{14}	17.1	X	278.50765	286.20538	50.97252	4.69425	0.1991768	0.29211181	2.2495896	20	5 6.7	19.9
244670	2003 KN_{18}	18.5	X	183.89905	354.67554	168.68356	11.90272	0.4862973	0.42629728	1.7484814	20	10 1.0	21.5
244671	2003 KN_{33}	15.9	X	218.35192	271.22158	153.58304	11.48394	0.0584844	0.18025162	3.1037252	20	7 6.8	20.6
244672	2003 MS_3	17.0	X	323.58366	222.96042	71.49264	3.01880	0.2173068	0.28618962	2.2805178	20	5 13.8	18.6
244673	2003 MM_6	15.0	X	353.95083	246.62987	102.37235	25.33457	0.2486135	0.23913645	2.5706258	20	11 14.7	18.0
244674	2003 NS_5	15.0	X	359.01325	111.21246	259.83487	28.96118	0.2151136	0.23997256	2.5646513	20	12 9.4	17.5
244675	2003 NC_7	16.3	X	122.90769	350.84423	327.54951	7.66773	0.2034114	0.25636871	2.4541025	20	—	—
244676	2003 NT_7	16.3	X	154.83595	78.98060	250.87788	6.24992	0.2082108	0.26125458	2.4234093	20	1 5.9	20.0
244677	2003 NR_{12}	16.5	X	135.29439	347.43205	316.12184	5.57530	0.1659428	0.25517368	2.4617586	20	—	—
244678	2003 OY	16.1	X	20.97453	357.94007	265.21996	26.13030	0.2635638	0.28954121	2.2628849	20	8 13.3	18.8
244679	2003 OC_8	17.0	X	198.28972	6.84289	319.36412	2.20939	0.3213393	0.26802716	2.3824119	20	2 9.5	21.5
244680	2003 OG_{16}	17.6	X	287.44429	147.14991	155.98860	2.19995	0.2359308	0.28049503	2.3112802	20	3 27.4	20.6
244681	2003 OY_{17}	16.6	X	180.46673	294.12832	77.01939	6.24746	0.2793056	0.27040093	2.3684484	20	3 23.7	20.8
244682	2003 OG_{18}	16.0	X	319.22329	102.04689	276.07535	12.11157	0.1225259	0.23617081	2.5921009	20	9 15.7	19.2
244683	2003 OL_{19}	16.4	X	308.51365	114.11641	235.75855	6.79769	0.2043692	0.28668849	2.2778715	20	7 14.3	18.3
244684	2003 OH_{23}	16.7	X	156.87164	51.02134	282.79626	4.72237	0.2281437	0.26134227	2.4228672	20	1 14.8	20.4
244685	2003 OY_{23}	16.7	X	210.30713	143.04832	193.00878	5.96106	0.1509416	0.27196674	2.3593490	20	2 28.1	20.5
244686	2003 OL_{27}	16.2	X	104.50544	90.48691	143.35274	15.46101	0.0872486	0.23957581	2.5674820	20	10 14.6	20.1
244687	2003 OD_{33}	15.7	X	333.35102	239.03186	137.84997	13.07175	0.0834288	0.23777542	2.5804260	20	10 23.7	18.9
244688	2003 OM_{33}	16.1	X	28.95028	318.87993	68.59171	10.38800	0.2812449	0.24392054	2.5369026	20	—	—
244689	2003 PW_5	17.2	X	310.96671	53.70363	238.96904	3.17839	0.2890354	0.28244183	2.3006473	20	4 2.3	19.6
244690	2003 PA_7	16.4	X	138.94442	90.85512	265.95502	5.21079	0.2095899	0.26277912	2.4140271	20	1 23.1	19.8
244691	2003 QZ	17.0	X	249.39638	41.97669	254.42364	4.98941	0.2299650	0.27306237	2.3530337	20	2 9.9	21.0
244692	2003 QA_3	17.0	X	254.48709	342.94901	286.13110	3.44446	0.1556048	0.26873497	2.3782268	20	1 18.9	20.6
244693	2003 QS_3	16.3	X	181.04369	26.95737	333.42759	7.31149	0.2455478	0.20970512	2.8058429	20	3 9.6	21.3
244694	2003 QQ_5	17.0	X	259.11403	143.13509	167.18964	11.21742	0.3152219	0.27555570	2.3388181	20	3 1.4	21.1
244695	2003 QN_{10}	16.3	X	332.50272	67.85966	221.10763	22.88279	0.2354655	0.28354735	2.2946634	20	5 22.4	18.0
244696	2003 QZ_{11}	17.3	X	183.75206	186.32537	130.44828	3.28375	0.2260478	0.26334624	2.4105601	20	1 16.7	21.3
244697	2003 QE_{15}	17.5	X	209.59638	61.00702	286.76541	4.80002	0.2626716	0.27054375	2.3676148	20	3 10.8	21.8
244698	2003 QQ_{16}	17.7	X	200.14153	263.02569	24.40516	1.92584	0.1890188	0.26221431	2.4174924	20	—	—
244699	2003 QV_{20}	15.5	X	9.31089	213.58843	118.79297	3.05094	0.2012766	0.17589052	3.1548188	20	10 16.3	19.1
244700	2003 QJ_{21}	17.2	X	258.59561	238.85179	87.85061	3.54319	0.2349880	0.27558660	2.3386433	20	3 29.9	20.9
244701	2003 QL_{21}	16.7	X	212.45065	254.39324	125.56944	4.34327	0.2192446	0.27339045	2.3511508	20	4 26.8	20.6
244702	2003 QQ_{23}	16.5	X	326.03812	109.37332	179.73693	21.74229	0.2239246	0.28196431	2.3032440	20	5 12.9	18.9
244703	2003 QS_{23}	16.5	X	200.64641	192.43156	183.30940	6.32709	0.1491794	0.27125767	2.3634588	20	4 11.6	20.0
244704	2003 QM_{26}	16.8	X	272.19715	337.84576	326.14602	8.95021	0.2306989	0.27544087	2.3394681	20	3 10.1	20.4
244705	2003 QN_{29}	16.5	X	1.50045	207.19956	175.51037	13.74864	0.1971542	0.24132643	2.5550503	20	12 26.7	19.7
244706	2003 QJ_{35}	17.2	X	153.54965	347.36962	347.95396	1.08816	0.2031721	0.26055532	2.4277433	20	1 11.8	21.0
244707	2003 QD_{36}	17.1	X	213.65030	7.60643	296.46160	1.30725	0.2103846	0.26600264	2.3944848	20	1 24.7	21.0
244708	2003 QM_{43}	16.7	X	232.00897	48.88285	324.32717	1.54441	0.2561810	0.27639573	2.3340769	20	4 30.2	20.7
244709	2003 QN_{46}	16.7	X	123.49086	189.40851	153.92025	9.44044	0.2355463	0.25577552	2.4578954	20	—	—
244710	2003 QL_{51}	17.3	X	177.65120	147.29935	171.47354	22.34403	0.0630647	0.37622609	1.9003639	20	—	—
244711	2003 QS_{51}	17.0	X	160.61183	327.97542	343.70594	5.06241	0.1975438	0.25946239	2.4345560	20	—	—
244712	2003 QT_{52}	16.9	X	239.21090	198.66426	76.71441	2.38911	0.1715702	0.26765042	2.3846470	20	1 12.4	20.5
244713	2003 QZ_{52}	16.4	X	351.01983	175.09521	121.21597	4.30004	0.0647752	0.22839086	2.6506369	20	7 22.3	19.4
244714	2003 QF_{55}	17.1	X	180.62593	200.07383	138.70865	6.13520	0.2375313	0.26458921	2.4030048	20	2 9.9	21.2
244715	2003 QW_{55}	16.3	X	61.71614	201.87345	135.84274	10.65900	0.2481108	0.24494285	2.5298390	20	—	—
244716	2003 QF_{68}	16.9	X	128.29645	180.44756	163.47994	6.77112	0.1419064	0.25711818	2.4493313	20	—	—
244717	2003 QL_{69}	14.7	X	357.27461	47.33690	336.47612	26.41758	0.2638675	0.17780743	3.1321036	20	12 4.8	18.7
244718	2003 QS_{76}	16.8	X	151.54330	137.45082	175.54373	15.96793	0.2258995	0.25662750	2.4524524	20	—	—
244719	2003 QP_{78}	16.7	X	58.30510	348.49231	354.01655	20.96576	0.3134224	0.24293245	2.5437770	20	—	—
244720	2003 QZ_{81}	15.6	X	351.93340	227.23964	145.29932	14.17910	0.1457228	0.17899113	3.1182796	20	11 6.1	19.5

Planet		H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
		m		°	°	°	°		°				
244721	2003 QB_{85}	17.2	X	187.32240	89.62271	226.38715	4.10238	0.2507120	0.26355572	2.4092827	20	1 18.7	21.4
244722	2003 QN_{85}	16.4	X	235.93469	101.71952	229.70998	6.04038	0.1524307	0.27253683	2.3560577	20	3 16.6	20.1
244723	2003 QL_{99}	17.1	X	286.25699	277.41396	96.72808	5.86864	0.2610418	0.28377474	2.2934374	20	6 30.8	19.2
244724	2003 QV_{99}	16.6	X	166.19105	134.26051	179.76690	6.39671	0.1311496	0.26040462	2.4286798	20	—	—
244725	2003 QC_{107}	16.9	X	225.86895	234.61287	77.11668	2.30744	0.1959720	0.27043710	2.3682372	20	2 13.5	20.7
244726	2003 QG_{107}	16.8	X	316.06753	227.29883	96.96382	6.82319	0.1954525	0.28519173	2.2858344	20	6 20.6	18.4
244727	2003 QX_{114}	17.6	X	284.07735	307.82130	338.31020	2.11518	0.2185087	0.27512788	2.3412420	20	3 3.3	20.7
244728	2003 RU_{5}	16.5	X	243.74277	168.69524	209.74662	5.06500	0.2477718	0.27633667	2.3344095	20	5 19.2	20.2
244729	2003 RQ_{9}	16.5	X	105.53249	162.26156	226.23722	8.10133	0.2062300	0.25740377	2.4475193	20	1 23.5	19.6
244730	2003 RB_{12}	17.1	X	178.92789	262.66295	85.18014	5.66746	0.2446318	0.26570495	2.3962729	20	2 21.8	21.2
244731	2003 RT_{12}	16.7	X	298.65801	291.82099	69.19748	6.22260	0.2222089	0.28616416	2.2806531	20	7 10.9	18.7
244732	2003 RJ_{14}	16.7	X	353.54433	113.32271	178.52497	22.74275	0.1710422	0.28662957	2.2781836	20	7 26.3	19.1
244733	2003 RT_{17}	15.3	X	83.55621	109.93677	187.42218	21.41438	0.1809705	0.18441069	3.0568819	20	12 4.8	20.5
244734	2003 RH_{22}	15.9	X	310.55374	14.93931	305.11305	13.92866	0.1224814	0.22362653	2.6881521	20	6 13.5	19.3
244735	2003 RW_{22}	16.5	X	260.40402	300.84501	80.02535	6.14061	0.2634061	0.27883224	2.3204599	20	6 6.0	19.8
244736	2003 ST_{10}	16.3	X	183.62017	357.46267	282.76295	1.51421	0.0089851	0.19334324	2.9619887	20	—	—
244737	2003 SP_{12}	15.6	X	322.34551	317.06008	349.44550	13.88943	0.1229546	0.22366381	2.6878533	20	6 12.5	19.0
244738	2003 SL_{26}	16.5	X	202.06688	131.95714	189.27596	5.41249	0.1852745	0.26498955	2.4005838	20	2 3.3	20.4
244739	2003 SY_{27}	17.3	X	261.54562	138.88604	205.75058	4.66413	0.3196778	0.27782909	2.3260421	20	4 14.4	21.0
244740	2003 SR_{31}	17.6	X	176.76243	114.52040	182.69887	0.73457	0.1807920	0.25541668	2.4601970	20	—	—
244741	2003 SY_{33}	17.0	X	182.77352	278.19481	43.47856	3.65401	0.2433633	0.26232158	2.4168334	20	1 23.7	21.0
244742	2003 SV_{35}	16.5	X	320.49592	103.45083	237.05712	5.43532	0.1270142	0.28601099	2.2814672	20	8 4.2	18.6
244743	2003 SP_{39}	17.2	X	229.63005	33.25342	293.84961	3.75938	0.1425811	0.26909541	2.3761026	20	3 6.5	20.8
244744	2003 SG_{40}	15.3	X	76.15127	216.42462	259.98660	14.45435	0.3011935	0.20074911	2.8886858	20	4 28.9	19.4
244745	2003 SF_{44}	17.5	X	266.05857	56.67489	273.42925	3.44774	0.2395977	0.27693903	2.3310233	20	4 6.3	21.0
244746	2003 SE_{46}	15.8	X	336.03887	292.26960	8.01858	13.85376	0.1465201	0.22465301	2.6799573	20	6 29.1	19.0
244747	2003 SU_{46}	16.7	X	250.05312	198.70802	185.49094	3.76582	0.2497139	0.27949953	2.3167650	20	6 1.8	20.1
244748	2003 SU_{52}	16.7	X	261.82263	140.20179	211.84427	4.71221	0.2437586	0.27783906	2.3259865	20	5 2.3	19.9
244749	2003 SJ_{54}	16.0	X	277.01443	231.51877	192.53178	17.37680	0.1698085	0.23104946	2.6302644	20	9 5.1	19.4
244750	2003 SS_{56}	17.3	X	245.72512	44.88562	264.49427	2.57738	0.1364480	0.27072900	2.3665346	20	2 29.7	20.9
244751	2003 SZ_{57}	16.0	X	47.12239	285.67217	21.16969	12.00426	0.0824923	0.23455407	2.6039985	20	10 30.9	19.4
244752	2003 SN_{61}	17.3	X	186.38065	217.75245	121.90944	2.42002	0.2086313	0.26531267	2.3986344	20	2 14.8	21.2
244753	2003 SC_{62}	16.8	X	124.93360	210.06893	150.81846	8.61519	0.1906109	0.25710280	2.4494289	20	1 11.7	20.2
244754	2003 SE_{62}	16.3	X	190.56121	103.20338	280.38132	7.43714	0.1347981	0.21226275	2.7832584	20	4 10.3	21.0
244755	2003 SF_{66}	17.0	X	267.45549	204.28454	92.41715	4.05782	0.2382569	0.27275320	2.3548115	20	2 29.2	20.7
244756	2003 SZ_{80}	16.5	X	153.97822	322.66986	54.12782	2.80087	0.0838366	0.20260716	2.8709977	20	2 28.9	20.8
244757	2003 SJ_{82}	15.9	X	323.42224	32.23618	9.73934	13.82674	0.0489578	0.23604468	2.5930242	20	10 31.7	19.2
244758	2003 SF_{84}	16.9	X	211.32302	56.81865	254.25816	10.32584	0.2941500	0.26759168	2.3849959	20	1 28.1	21.4
244759	2003 SS_{85}	15.8	X	268.02819	100.89671	234.41008	8.73570	0.0717629	0.21687851	2.7436268	20	5 11.4	19.3
244760	2003 ST_{89}	16.1	X	3.65244	2.02264	319.57295	10.56927	0.1308941	0.23178106	2.6247267	20	9 18.8	19.0
244761	2003 SD_{98}	16.8	X	136.77678	148.99451	258.79938	0.52537	0.1735967	0.26255208	2.4154186	20	3 22.1	20.1
244762	2003 SY_{98}	15.8	X	58.73676	55.28577	257.89786	14.81381	0.0730913	0.23983585	2.5656258	20	11 24.3	19.4
244763	2003 SD_{102}	16.3	X	315.32190	171.43198	237.15370	9.67828	0.0934228	0.23582515	2.5946332	20	10 30.4	19.2
244764	2003 SO_{108}	16.4	X	226.87308	94.26892	243.25051	3.95143	0.1550804	0.26921941	2.3753729	20	3 16.1	20.1
244765	2003 SZ_{110}	16.8	X	45.36246	306.64411	128.31520	6.27866	0.2159435	0.24485177	2.5304663	20	—	—
244766	2003 SF_{117}	16.3	X	151.11719	166.85537	235.96337	2.94277	0.0520926	0.26531441	2.3986239	20	3 17.9	19.5
244767	2003 SK_{118}	16.8	X	282.21893	126.24050	210.41658	4.09024	0.1621919	0.27913818	2.3187640	20	5 17.6	19.6
244768	2003 SP_{126}	16.4	X	234.96261	67.79207	258.57476	5.99723	0.1218892	0.26931696	2.3747993	20	3 10.5	20.1
244769	2003 SR_{131}	17.4	X	289.46972	163.20162	193.66693	1.42133	0.1435335	0.28149023	2.3058294	20	6 30.9	19.6
244770	2003 SL_{134}	16.3	X	267.44956	124.28729	298.80804	4.94451	0.1194001	0.23090981	2.6313248	20	8 29.9	19.6
244771	2003 SH_{135}	17.0	X	8.41633	53.57153	322.15485	4.81925	0.0212938	0.24171060	2.5523423	20	12 2.3	20.3
244772	2003 SY_{142}	16.4	X	293.99200	202.23597	147.41867	6.04586	0.1928293	0.28074425	2.3099122	20	6 18.9	19.0
244773	2003 SL_{144}	15.9	X	305.55907	35.76222	290.55215	11.64688	0.1892739	0.22273756	2.6952998	20	6 2.5	19.1
244774	2003 SZ_{146}	16.0	X	257.23279	100.29303	248.36894	5.63167	0.1493714	0.27516133	2.3410523	20	5 2.9	19.1
244775	2003 SJ_{149}	17.3	X	124.69606	182.40557	173.02817	5.29679	0.1359399	0.25465660	2.4650899	20	—	—
244776	2003 SM_{152}	15.4	X	208.00848	331.42590	33.96752	9.75376	0.1705000	0.21444804	2.7643180	20	4 8.5	20.0
244777	2003 SR_{161}	16.6	X	18.00220	11.32472	10.09607	6.80299	0.1297587	0.24239218	2.5475554	20	—	—
244778	2003 SA_{167}	17.1	X	169.15346	201.78496	186.72254	2.25086	0.2168121	0.26569107	2.3963564	20	3 31.1	21.1
244779	2003 SU_{167}	16.9	X	315.95135	274.40511	71.13496	4.79866	0.1592691	0.28648975	2.2789248	20	8 3.9	18.7
244780	2003 SY_{169}	16.1	X	329.77239	77.42663	249.55493	5.33213	0.0964842	0.22570710	2.6716069	20	7 27.8	19.3
244781	2003 SX_{173}	16.4	X	265.10741	298.45435	126.95253	4.61118	0.2083084	0.22814066	2.6525745	20	8 17.7	20.0
244782	2003 SY_{178}	17.5	X	182.52367	34.15895	245.44927	1.06737	0.2012649	0.25777093	2.4451946	20	—	—
244783	2003 SZ_{181}	15.2	X	206.43846	194.67070	200.12478	35.88461	0.2029290	0.21156527	2.7893722	20	5 10.3	20.2
244784	2003 SN_{189}	16.0	X	278.56454	139.70613	205.91017	7.24878	0.1144719	0.21815706	2.7328966	20	6 2.4	19.7
244785	2003 SJ_{195}	15.2	X	31.39685	146.39298	225.02933	9.73035	0.0546061	0.18136615	3.0909969	20	12 16.6	19.6
244786	2003 SD_{197}	17.0	X	340.86290	178.89641	341.27885	20.93536	0.0754979	0.37688918	1.8981343	20	—	—
244787	2003 SX_{197}	16.1	X	152.37559	91.27153	14.92062	18.07655	0.2249060	0.21407582	2.7675213	20	6 21.8	21.2
244788	2003 SN_{204}	14.9	X	317.55682	196.66492	223.12608	13.27989	0.2702278	0.17341044	3.1848273	20	10 20.8	17.9
244789	2003 SV_{209}	17.3	X	253.59116	82.60688	250.03187	2.92821	0.1893686	0.27419394	2.3465554	20	4 2.8	20.7
244790	2003 SQ_{210}	17.4	X	307.74556	23.81225	241.59222	5.74194	0.3453534	0.28007072	2.3136141	20	2 11.7	20.6
244791	2003 SV_{212}	16.4	X	203.13615	313.45482	51.69871	7.55541	0.1379904	0.27136373	2.3628429	20	4 2.6	20.0
244792	2003 SG_{215}	16.9	X	78.76785	118.75295	199.96456	36.96222	0.1904200	0.24220971	2.5488348	20	12 30.4	21.8
244793	2003 SW_{218}	15.7	X	152.66256	311.29472	41.36530	10.74402	0.2527525	0.19825303	2.9128816	20	2 15.5	20.8
244794	2003 SM_{233}	17.0	X	266.62875	146.78796	149.28520	5.53729	0.2335015	0.27215284	2.3582733	20	2 26.6	20.6
244795	2003 SL_{234}	15.6	X	307.01581	258.23581	145.30181	5.81620	0.1037406	0.17313978	3.1881456	20	9 28.8	19.6
244796	2003 SS_{245}	15.7	X	207.49391	210.69673	344.09562	4.61294	0.1672681	0.24304005	2.5430261	20	12 1.5	19.5
244797	2003 SZ_{245}	15.9	X	209.32795	343.11874	13.67098	6.15955	0.0763647	0.21094537	2.7948342	20	3 31.8	20.2
244798	2003 ST_{246}	16.4	X	322.15283	197.52529	183.00405	11.65116	0.1319116	0.23146846	2.6270893	20	10 1.9	19.0
244799	2003 SX_{251}	15.5	X	283.30211	344.59573	42.97852	11.42323	0.1763063	0.22190257	2.7020569	20	7 30.6	19.1
244800	2003 SO_{252}	16.3	X	206.72985	7.80966	40.40050	6.51072	0.1535847	0.27172571	2.3607440	20	5 28.1	20.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
244801 2003 SW_{263}	16.5	X	28.16180	343.45314	19.62368	15.07706	0.1876845	0.24020611	2.5629887	20	—	—
244802 2003 SL_{266}	16.1	X	275.38801	162.70626	356.47002	2.00903	0.0339682	0.24600901	2.5225244	20	—	—
244803 2003 SJ_{269}	16.5	X	255.27551	333.37203	341.24688	3.06355	0.0917583	0.20969258	2.8059549	20	3 27.5	20.6
244804 2003 SJ_{273}	16.0	X	319.49724	195.15672	213.47680	32.95366	0.1689854	0.23292115	2.6161548	20	11 6.1	18.5
244805 2003 SQ_{273}	16.8	X	301.74765	27.63568	271.28963	9.57713	0.2421285	0.28049964	2.3112549	20	4 2.0	19.8
244806 2003 SU_{275}	16.3	X	29.48031	204.68635	198.28439	15.34247	0.0320780	0.24552487	2.5258393	20	—	—
244807 2003 SG_{283}	15.6	X	324.86292	24.23226	297.45093	12.07365	0.1752421	0.22706626	2.6609352	20	7 5.9	18.3
244808 2003 SP_{286}	16.8	X	301.08697	30.99827	269.20544	7.52345	0.2545102	0.27789883	2.3256529	20	4 2.3	19.8
244809 2003 ST_{295}	16.3	X	67.88215	26.37779	300.81791	7.36153	0.1099049	0.24149449	2.5538648	20	12 28.3	19.9
244810 2003 SG_{309}	16.3	X	276.64663	38.62334	335.06727	5.48913	0.0598435	0.22398499	2.6852833	20	7 17.5	19.8
244811 2003 ST_{309}	15.2	X	92.09377	82.51841	192.86958	16.29246	0.1181766	0.18017005	3.1046620	20	11 11.5	20.0
244812 2003 ST_{319}	16.5	X	284.86953	339.50666	67.62791	4.31190	0.1351693	0.22818661	2.6522184	20	9 4.5	19.7
244813 2003 SG_{324}	17.4	X	272.55470	89.63196	288.18861	2.34518	0.1762893	0.28311263	2.2970117	20	6 30.4	19.8
244814 2003 ST_{326}	17.2	X	184.74813	86.73912	192.44491	7.01610	0.1020361	0.25449050	2.4661624	20	—	—
244815 2003 SL_{328}	16.4	X	275.10568	358.83806	160.23358	2.96113	0.0080966	0.24560546	2.5252867	20	—	—
244816 2003 SY_{332}	17.7	X	125.91470	90.48870	184.94059	11.66795	0.1927033	0.24470843	2.5314544	20	12 24.5	22.2
244817 2003 SV_{339}	16.0	X	279.50141	328.87931	84.67738	12.20308	0.1248685	0.22669264	2.6638582	20	9 10.8	19.5
244818 2003 ST_{399}	16.0	X	72.40018	345.78487	69.35445	14.60605	0.1587053	0.19327530	2.9626827	20	1 19.2	19.8
244819 2003 TA_{3}	16.0	X	323.24720	241.90875	146.38396	15.26721	0.1576592	0.23086179	2.6316897	20	10 20.0	18.9
244820 2003 TA_{4}	16.0	X	157.32368	305.30707	214.97022	14.44726	0.0256167	0.22771888	2.6558489	20	8 26.9	20.0
244821 2003 TJ_{6}	16.7	X	270.13288	330.83364	65.75295	8.87642	0.1604869	0.28391174	2.2926995	20	7 30.1	19.4
244822 2003 TS_{43}	16.4	X	104.11837	242.86535	39.24170	5.76638	0.0833462	0.23762295	2.5815297	20	12 7.4	20.1
244823 2003 TR_{49}	16.6	X	46.63773	33.33497	284.76858	4.78263	0.0516718	0.23334262	2.6130036	20	11 9.8	20.0
244824 2003 TV_{53}	16.1	X	269.94639	68.73342	55.85831	6.92564	0.0354624	0.23879611	2.5730677	20	12 8.9	19.3
244825 2003 UX_{4}	15.6	X	309.73585	288.83694	74.97709	28.08641	0.2456216	0.22616307	2.6680149	20	7 31.5	18.8
244826 2003 US_{11}	17.1	X	41.14428	326.69536	49.72733	21.98982	0.0838691	0.36063280	1.9547561	20	—	—
244827 2003 UL_{13}	17.3	X	170.15919	279.66225	358.07845	18.69316	0.0647138	0.36717696	1.9314602	20	—	—
244828 2003 UM_{28}	16.3	X	9.75714	227.06366	168.65272	0.15486	0.1642918	0.17972592	3.1097746	20	12 31.6	20.1
244829 2003 UC_{40}	16.9	X	15.22652	165.56556	188.71794	3.01326	0.0384589	0.23276597	2.6173174	20	11 15.0	20.3
244830 2003 UJ_{41}	16.7	X	280.71519	333.91827	27.38766	5.02157	0.1715470	0.27902761	2.3193766	20	6 18.3	19.5
244831 2003 UX_{42}	15.7	X	134.17152	40.99927	188.22791	9.27735	0.0200737	0.17613747	3.1518694	20	10 24.2	20.2
244832 2003 UC_{44}	17.5	X	167.13331	60.86976	267.37512	0.44762	0.1940123	0.25855794	2.4402302	20	1 15.1	21.2
244833 2003 UW_{49}	16.0	X	35.53154	58.55901	266.37184	14.01501	0.1156881	0.23345001	2.6122022	20	11 13.4	19.6
244834 2003 UA_{58}	16.0	X	179.47156	235.02157	230.62920	12.40862	0.1581535	0.21784978	2.7354658	20	7 11.9	20.6
244835 2003 UG_{62}	16.5	X	181.46730	252.91093	107.39347	7.15484	0.1242618	0.26412799	2.4058014	20	3 6.3	20.1
244836 2003 UO_{82}	15.7	X	210.75257	277.67067	101.71648	7.34789	0.1591554	0.21088422	2.7953744	20	4 29.8	20.3
244837 2003 UT_{91}	16.3	X	267.75658	14.42034	62.36078	4.59782	0.2021257	0.22773551	2.6557195	20	9 8.8	19.6
244838 2003 UF_{102}	16.9	X	249.50576	347.43752	65.70066	10.58562	0.2323011	0.28041837	2.3117014	20	7 13.1	20.2
244839 2003 UY_{102}	16.4	X	173.21657	21.89861	44.50015	9.12437	0.1124075	0.21181887	2.7871454	20	5 19.0	20.8
244840 2003 UU_{106}	16.0	X	63.38550	103.25917	264.04117	8.10137	0.1029418	0.24364088	2.5388436	20	—	—
244841 2003 UP_{107}	16.3	X	259.65897	170.47097	221.77041	5.67602	0.0344419	0.22065189	2.7122577	20	7 20.5	20.0
244842 2003 UP_{113}	16.5	X	63.67507	253.31374	64.64445	9.58694	0.1735116	0.23877440	2.5732237	20	12 17.8	20.3
244843 2003 UC_{123}	16.8	X	143.94970	357.57880	224.81586	7.26496	0.0505455	0.23173939	2.6250413	20	11 5.1	20.6
244844 2003 UD_{124}	16.3	X	50.77401	26.89128	277.15434	12.90325	0.1834757	0.23709548	2.5853571	20	11 16.2	20.1
244845 2003 UM_{124}	16.2	X	308.01971	264.75816	52.64015	6.13993	0.0297254	0.21819500	2.7325798	20	6 17.4	19.8
244846 2003 UP_{128}	16.1	X	252.26909	64.69846	37.51238	19.24698	0.1372495	0.17088198	3.2161666	20	9 29.2	20.9
244847 2003 UR_{134}	17.0	X	193.53767	123.32830	247.97611	3.90550	0.2532946	0.26726746	2.3869243	20	3 28.3	21.2
244848 2003 UN_{135}	15.8	X	43.70577	62.30735	252.02020	13.19007	0.2055171	0.23444557	2.6048018	20	11 25.0	19.4
244849 2003 UY_{137}	17.2	X	137.95508	261.53246	108.38973	2.95991	0.2116781	0.25754626	2.4466164	20	2 9.9	20.9
244850 2003 UH_{140}	15.4	X	339.28221	71.98050	46.53343	14.33482	0.0979771	0.18994021	2.9972624	20	—	—
244851 2003 US_{143}	16.6	X	71.86400	93.78919	257.11174	5.46065	0.2480933	0.24400133	2.5363426	20	—	—
244852 2003 UG_{145}	16.5	X	313.70342	214.14566	203.00105	5.95071	0.1645327	0.23157802	2.6262606	20	11 6.9	19.1
244853 2003 UB_{148}	16.0	X	270.80803	297.98238	82.60061	8.39717	0.1340414	0.22209054	2.7005321	20	7 5.9	19.6
244854 2003 UE_{150}	15.9	X	236.97004	327.76445	90.94451	8.17555	0.0836944	0.21978592	2.7193773	20	7 21.6	19.7
244855 2003 UT_{152}	15.9	X	266.81621	288.53653	71.41682	9.76391	0.2777213	0.27651453	2.3334083	20	5 15.1	19.2
244856 2003 UK_{169}	16.4	X	224.13110	14.77399	44.96925	22.34716	0.1846642	0.27546455	2.3393341	20	6 26.9	20.4
244857 2003 UQ_{170}	15.6	X	73.58307	12.62374	78.37139	12.64499	0.2636102	0.18932882	3.0037116	20	3 28.8	19.7
244858 2003 UC_{173}	17.3	X	194.81995	17.70618	351.64193	1.84051	0.1519302	0.26688398	2.3892103	20	3 27.9	21.0
244859 2003 UA_{194}	16.4	X	252.81670	22.07602	37.35735	8.56337	0.2293059	0.22334547	2.6904068	20	7 24.2	20.5
244860 2003 UG_{195}	16.3	X	98.95717	302.80173	15.34734	3.81952	0.0694924	0.24030370	2.5622947	20	—	—
244861 2003 UK_{196}	16.5	X	206.23653	128.94075	225.15975	6.33836	0.1349742	0.26646302	2.3917260	20	3 17.7	20.3
244862 2003 UR_{201}	16.2	X	334.38057	342.69454	56.62640	6.55004	0.1778749	0.23331901	2.6131799	20	11 23.9	18.6
244863 2003 UO_{208}	16.3	X	272.05207	349.74403	54.49052	4.54832	0.0546939	0.22362086	2.6881975	20	8 24.0	19.8
244864 2003 UK_{217}	16.8	X	261.94783	254.41687	113.34611	3.34950	0.1835714	0.27801336	2.3250142	20	5 31.8	19.8
244865 2003 UM_{217}	15.9	X	296.95759	282.72737	65.68674	7.55276	0.0415102	0.22020631	2.7159152	20	7 13.9	19.4
244866 2003 UT_{219}	16.3	X	269.91648	301.07994	78.26447	6.13091	0.1260541	0.22012523	2.7165821	20	7 4.2	19.9
244867 2003 UE_{222}	16.6	X	80.80681	57.69449	241.69225	8.45870	0.1161046	0.23724034	2.5843045	20	12 7.2	20.3
244868 2003 UL_{222}	15.7	X	221.99490	149.76350	244.99432	12.77552	0.1689183	0.21342442	2.7731497	20	5 25.8	20.1
244869 2003 UW_{237}	16.3	X	105.42163	283.95276	50.36919	6.91819	0.1535146	0.24465258	2.5318396	20	—	—
244870 2003 UU_{240}	16.1	X	262.65398	327.67036	249.70003	6.40537	0.0355378	0.25043668	2.4927043	20	—	—
244871 2003 UK_{243}	16.6	X	75.77462	186.57258	162.66273	1.91118	0.0974973	0.24401421	2.5362534	20	—	—
244872 2003 UC_{244}	16.1	X	249.84305	219.71162	241.51580	9.86955	0.0718913	0.22602422	2.6691075	20	9 30.7	19.8
244873 2003 UD_{246}	16.1	X	249.44770	323.34882	89.30493	6.96735	0.0753068	0.22126304	2.7072610	20	7 31.2	19.8
244874 2003 US_{259}	15.8	X	20.93073	290.55195	75.34828	13.80817	0.1745687	0.23488523	2.6015504	20	12 27.4	19.1
244875 2003 UQ_{272}	16.1	X	194.00820	261.33323	182.57100	7.46682	0.2007032	0.21438195	2.7648861	20	6 28.9	20.9
244876 2003 UX_{273}	14.8	X	50.79111	158.96152	270.85599	18.38972	0.3026818	0.18356340	3.0662812	20	1 16.0	17.8
244877 2003 UT_{275}	16.2	X	201.26157	226.16617	237.25830	4.10216	0.1212624	0.21867827	2.7285524	20	8 2.4	20.4
244878 2003 UH_{276}	14.7	X	45.44688	211.33924	167.84074	2.29409	0.2759181	0.12281513	4.0083730	20	—	—
244879 2003 UR_{281}	15.7	X	153.85981	93.85546	353.79844	8.85179	0.1293930	0.21129812	2.7917228	20	5 25.5	20.2
244880 2003 UR_{285}	17.0	X	119.92601	202.62325	208.53646	1.32907	0.0810403	0.20082314	2.8879758	20	3 1.9	21.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
244881 2003 UJ_{316}	16.8	X	358.89601	309.12533	43.51618	13.41146	0.1691924	0.23117078	2.6293441	20	11 3.6	19.5
244882 2003 UC_{365}	16.3	X	358.45811	169.28217	150.52761	7.94364	0.0818604	0.22744457	2.6579839	20	9 7.9	19.5
244883 2003 UU_{378}	17.2	X	185.85534	15.16775	160.58189	3.57051	0.0819227	0.23530503	2.5984553	20	10 24.7	21.0
244884 2003 UD_{400}	16.5	X	84.42881	223.56316	33.86374	7.66691	0.0026265	0.22797393	2.6538677	20	10 5.8	20.1
244885 2003 VT	16.9	X	343.39861	150.93523	285.91982	18.05288	0.0913054	0.35863309	1.9620157	20	—	—
244886 2003 VK_{11}	16.4	X	332.10341	131.60354	234.80846	11.54295	0.2480287	0.22812444	2.6527002	20	9 23.1	18.7
244887 2003 WO_{3}	16.5	X	301.73878	329.39433	90.28918	4.64355	0.1207151	0.22928459	2.6437444	20	10 22.7	19.4
244888 2003 WC_{13}	16.5	X	204.96025	333.70640	236.49494	7.20069	0.0734492	0.24489041	2.5302001	20	12 30.4	19.9
244889 2003 WB_{17}	16.0	X	309.04543	237.01319	272.87409	13.08691	0.0385349	0.24447171	2.5330882	20	—	—
244890 2003 WN_{30}	16.4	X	310.38712	185.03165	297.29883	3.82292	0.1918317	0.23807473	2.5782628	20	—	—
244891 2003 WP_{30}	17.2	X	262.34618	348.76057	19.89867	3.81005	0.1443686	0.27594532	2.3366161	20	6 7.2	20.3
244892 2003 WQ_{35}	16.3	X	172.62348	111.18616	4.89667	8.10920	0.0322781	0.21623036	2.7491068	20	7 25.0	20.3
244893 2003 WY_{39}	16.1	X	166.62327	195.21930	281.72805	5.09903	0.0636429	0.21605249	2.7506154	20	7 16.0	20.1
244894 2003 WV_{44}	15.7	X	107.41141	9.04732	86.66362	14.25369	0.2577633	0.20182365	2.8784234	20	5 8.7	20.3
244895 2003 WZ_{56}	16.3	X	324.13659	85.18562	235.73851	5.42069	0.1219988	0.22137514	2.7063470	20	7 7.2	19.4
244896 2003 WO_{58}	15.9	X	51.92465	126.41793	234.08678	4.32607	0.1206334	0.18024950	3.1037495	20	—	—
244897 2003 WO_{72}	15.7	X	313.16186	134.01190	256.46453	14.06419	0.1353130	0.22660167	2.6645711	20	9 19.4	18.9
244898 2003 WU_{72}	16.3	X	292.22454	8.40111	7.48101	5.02506	0.1295437	0.22059014	2.7127638	20	8 2.4	19.6
244899 2003 WU_{77}	16.9	X	104.93673	24.31673	255.31429	16.99598	0.0452396	0.35569744	1.9727962	20	12 30.5	19.2
244900 2003 WC_{82}	15.3	X	294.51713	112.42692	282.64267	8.84215	0.0677805	0.16809406	3.2516302	20	8 28.2	19.9
244901 2003 WO_{86}	15.9	X	267.79545	207.11156	247.28128	21.21404	0.0423110	0.22767420	2.6561963	20	10 20.6	19.7
244902 2003 WQ_{87}	16.1	X	266.32916	270.41445	162.20410	12.81182	0.2486851	0.22488427	2.6781198	20	8 20.8	19.6
244903 2003 WL_{95}	16.4	X	336.51432	317.16094	74.03561	8.28298	0.1991224	0.23129276	2.6284196	20	11 18.7	18.6
244904 2003 WZ_{97}	15.6	X	20.08409	324.23698	81.28280	7.97365	0.3470942	0.23773130	2.5807453	20	—	—
244905 2003 WJ_{120}	15.9	X	150.66271	44.08193	306.73681	4.46004	0.1187261	0.25207252	2.4819082	20	1 20.6	19.5
244906 2003 WY_{121}	15.9	X	54.26320	326.83317	36.47819	5.07389	0.2029129	0.23848395	2.5753125	20	—	—
244907 2003 WP_{125}	16.5	X	50.27287	353.17510	35.05364	6.73544	0.2995896	0.24204311	2.5500042	20	—	—
244908 2003 WC_{129}	15.0	X	245.08132	120.63531	49.01689	14.60603	0.0889585	0.17542133	3.1604417	20	12 8.6	19.5
244909 2003 WN_{131}	16.4	X	112.16254	89.39029	38.35944	4.51555	0.1384186	0.20529702	2.8458649	20	6 4.4	20.6
244910 2003 WQ_{132}	16.7	X	207.76676	112.32457	273.44819	4.44846	0.2641908	0.26884962	2.3775506	20	4 25.6	20.9
244911 2003 WU_{133}	16.5	X	21.16480	98.95018	243.38829	8.59506	0.1959690	0.23224287	2.6212461	20	11 30.2	19.5
244912 2003 WC_{135}	16.8	X	21.69183	130.01138	263.80539	1.30313	0.1979115	0.23863057	2.5742575	20	—	—
244913 2003 WU_{135}	15.5	X	25.24191	121.25973	249.58926	12.81405	0.1487034	0.23555005	2.5966530	20	—	—
244914 2003 WK_{140}	16.2	X	17.15034	105.69000	240.89644	6.75295	0.1898234	0.23135150	2.6279746	20	11 28.7	19.1
244915 2003 WL_{141}	16.0	X	332.23731	334.12143	69.16318	8.78948	0.1883364	0.22987980	2.6391790	20	11 25.2	18.4
244916 2003 WV_{144}	16.6	X	214.47670	10.03384	55.30956	3.70499	0.1014835	0.21529968	2.7570235	20	7 1.4	20.6
244917 2003 WB_{155}	16.2	X	258.59406	102.83151	202.68449	9.88151	0.0818550	0.26370810	2.4083545	20	3 15.1	19.5
244918 2003 WK_{155}	15.0	X	240.19038	23.52812	131.39322	8.76692	0.0622582	0.17390335	3.1788064	20	11 22.7	19.6
244919 2003 WN_{159}	16.4	X	14.87640	234.26480	150.52229	12.34117	0.1876871	0.23650321	2.5896716	20	—	—
244920 2003 WB_{164}	16.7	X	73.77878	234.93385	69.90066	3.24574	0.0780426	0.23192303	2.6236555	20	11 30.9	20.3
244921 2003 WU_{165}	14.6	X	116.18660	238.93992	96.06887	3.54603	0.1275160	0.12583199	3.9440463	20	—	—
244922 2003 WY_{166}	15.0	X	255.90963	135.69602	64.23283	16.45317	0.0343413	0.18655478	3.0334147	20	—	—
244923 2003 WA_{170}	16.4	X	328.43842	175.06099	197.36779	11.34443	0.1863669	0.22821779	2.6519768	20	9 28.7	18.6
244924 2003 WK_{175}	16.8	X	204.44281	352.59665	297.25182	1.29381	0.1905794	0.25359779	2.4719465	20	1 1.6	21.0
244925 2003 WH_{183}	16.7	X	228.10582	203.57749	182.16657	4.01269	0.0798395	0.21168965	2.7882795	20	5 28.8	20.8
244926 2003 WN_{190}	16.9	X	321.17402	322.08949	91.89816	24.53518	0.0964222	0.35198829	1.9866311	20	12 27.6	18.1
244927 2003 WE_{194}	16.4	X	129.18768	256.40655	265.94647	4.14359	0.1133237	0.21332343	2.7740248	20	8 3.6	20.6
244928 2003 XY_{1}	15.7	X	318.56579	140.10882	230.14053	11.91147	0.1307919	0.22502490	2.6770039	20	9 2.2	18.9
244929 2003 XB_{20}	15.5	X	24.92407	171.90210	306.21148	9.38711	0.1570122	0.18621707	3.0370811	20	1 19.8	18.9
244930 2003 XC_{20}	15.4	X	137.70137	80.63668	309.18351	9.59275	0.1213395	0.19347769	2.9606163	20	2 27.7	20.0
244931 2003 XM_{20}	15.9	X	339.73141	329.52248	32.75230	14.40481	0.2525826	0.22482500	2.6785904	20	10 15.3	17.9
244932 Méliès	16.4	X	197.09815	22.18640	81.54935	1.52808	0.1430345	0.21461511	2.7628832	20	7 29.9	20.8
244933 2003 YF_{3}	15.3	X	133.23571	114.49727	79.21286	25.59603	0.1081622	0.21781256	2.7357774	20	10 3.5	20.1
244934 2003 YQ_{6}	15.8	X	341.58333	127.92774	306.58421	9.62189	0.2308600	0.17443674	3.1723231	20	—	—
244935 2003 YA_{9}	17.1	X	167.55565	285.56207	112.69639	24.07663	0.1068402	0.37919059	1.8904463	20	4 11.8	20.2
244936 2003 YR_{14}	15.5	X	349.05801	20.21923	54.35648	11.02366	0.1617871	0.17597025	3.1538659	20	—	—
244937 2003 YZ_{25}	15.7	X	100.70200	329.37911	30.22948	3.06823	0.2370715	0.24415153	2.5353023	20	—	—
244938 2003 YY_{33}	16.3	X	329.28087	298.99684	101.65295	12.96276	0.1695318	0.23078006	2.6323110	20	11 18.5	19.0
244939 2003 YV_{49}	16.3	X	253.23808	312.67189	75.87808	5.24232	0.1444577	0.21449035	2.7639545	20	6 22.4	20.2
244940 2003 YL_{53}	16.1	X	292.37792	285.44040	81.20785	6.60210	0.1095974	0.21883910	2.7272154	20	7 22.7	19.4
244941 2003 YC_{54}	16.7	X	36.24271	255.20497	98.75956	4.03519	0.2503240	0.23737352	2.5833378	20	—	—
244942 2003 YT_{69}	16.8	X	50.97112	170.80992	154.25978	4.52495	0.2190089	0.23576068	2.5951062	20	12 18.7	20.6
244943 2003 YU_{77}	15.1	X	40.95080	286.57752	94.55667	19.77854	0.2692385	0.17890022	3.1193358	20	—	—
244944 2003 YQ_{78}	15.9	X	356.79768	257.72785	288.38567	15.02111	0.0476166	0.25279325	2.4771886	20	2 18.7	19.2
244945 2003 YE_{80}	16.0	X	27.47977	299.22149	85.83039	6.60691	0.3015377	0.23659055	2.5890342	20	—	—
244946 2003 YZ_{80}	15.3	X	357.70348	195.39529	308.70427	12.75786	0.1298408	0.18323786	3.0699118	20	1 9.7	19.1
244947 2003 YP_{81}	17.0	X	224.12061	330.45736	69.16844	4.96153	0.2461225	0.27158819	2.3615408	20	5 28.6	20.9
244948 2003 YX_{82}	15.9	X	96.69708	125.82029	5.89751	2.36576	0.0775269	0.19994960	2.8963810	20	5 13.9	19.9
244949 2003 YF_{95}	15.7	X	159.59722	12.30352	253.24187	13.50810	0.1173519	0.23702964	2.5858358	20	—	—
244950 2003 YK_{97}	16.2	X	35.75699	183.71110	240.98056	3.90304	0.3254249	0.18422455	3.0589406	20	—	—
244951 2003 YH_{106}	16.3	X	202.87230	150.74497	268.65771	4.21533	0.0739305	0.20971392	2.8057645	20	6 12.3	20.3
244952 2003 YH_{112}	15.6	X	104.26810	49.39237	67.09817	12.53916	0.1447500	0.19985174	2.8973265	20	5 14.8	19.8
244953 2003 YX_{113}	16.2	X	318.14158	246.22921	166.45682	13.56507	0.1612626	0.22879453	2.6475182	20	11 11.7	19.1
244954 2003 YZ_{136}	16.1	X	27.90950	56.44812	312.95361	2.49602	0.2571435	0.23412437	2.6071837	20	—	—
244955 2003 YE_{137}	15.7	X	317.31496	347.42741	286.79010	8.58264	0.0386680	0.19964197	2.8993556	20	4 29.6	19.8
244956 2003 YW_{140}	15.6	X	344.14634	96.28510	5.69765	10.21369	0.0768191	0.17881483	3.1203288	20	—	—
244957 2003 YS_{141}	15.9	X	187.42528	109.12282	304.33900	11.28092	0.0296028	0.20500857	2.8485338	20	5 16.1	20.2
244958 2003 YB_{144}	15.9	X	173.11751	34.58230	41.13318	10.90121	0.1462659	0.20649808	2.8348192	20	5 30.4	20.6
244959 2003 YO_{145}	15.8	X	1.60955	31.42799	48.75823	11.06108	0.2164261	0.17643722	3.1482986	20	—	—
244960 2003 YW_{148}	14.8	X	282.92574	22.80171	40.27723	12.62638	0.0817264	0.16162674	3.3378020	20	9 23.7	19.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
244961 2003 YJ_{150}	15.3	X	121.07977	333.57792	46.35529	11.03209	0.1213726	0.18921405	3.0049261	20	2 5.5	19.8
244962 2003 YT_{157}	16.1	X	103.45806	177.65077	19.72102	9.97783	0.0410220	0.21828828	2.7318013	20	8 18.3	20.0
244963 2003 YO_{170}	16.1	X	25.20453	260.89995	56.41695	6.94155	0.0226166	0.22073879	2.7115458	20	10 8.8	19.7
244964 2004 AT_{7}	17.1	X	295.07079	141.07694	132.47582	24.35198	0.0459742	0.37528265	1.9035475	20	3 22.7	19.5
244965 2004 AL_{19}	15.8	X	103.81291	307.21956	309.02653	12.48100	0.1829949	0.21906862	2.7253101	20	11 4.9	20.5
244966 2004 BC_{1}	17.1	X	163.00398	317.21435	243.63932	1.96086	0.0838122	0.21969129	2.7201581	20	10 27.2	21.3
244967 2004 BA_{17}	15.4	X	315.55603	85.47015	35.76889	11.15759	0.0471181	0.17351596	3.1835360	20	—	—
244968 2004 BK_{18}	15.0	X	334.87224	121.02832	34.60309	22.84130	0.0591268	0.17853399	3.1236002	20	—	—
244969 2004 BA_{26}	16.4	X	251.53387	238.63068	188.85567	9.25417	0.1454050	0.21554708	2.7549134	20	8 8.2	20.5
244970 2004 BU_{29}	15.7	X	323.37662	67.58035	327.73947	11.74340	0.2225929	0.22285353	2.6943647	20	10 13.6	18.3
244971 2004 BN_{37}	15.1	X	305.44972	229.12168	311.91600	14.21272	0.1127807	0.17852926	3.1236553	20	—	—
244972 2004 BX_{40}	15.7	X	14.24329	215.54137	303.77358	5.91705	0.0493334	0.18716991	3.0267649	20	2 22.9	19.6
244973 2004 BV_{41}	16.1	X	351.31213	325.50716	121.28781	14.64302	0.1164175	0.23270234	2.6177945	20	—	—
244974 2004 BA_{45}	17.0	X	115.92106	357.32375	125.96262	24.85635	0.0646454	0.38005871	1.8875665	20	6 2.3	19.6
244975 2004 BN_{55}	16.4	X	208.07754	43.04471	129.86838	13.21370	0.1103056	0.22145712	2.7056791	20	11 13.1	20.6
244976 2004 BA_{66}	15.9	X	139.25903	347.78620	309.46642	7.29580	0.0062400	0.17392878	3.1784966	20	—	—
244977 2004 BE_{68}	18.4	X	28.46040	191.25751	210.89430	15.73379	0.4442617	0.42189655	1.7606191	20	—	—
244978 2004 BZ_{77}	15.3	X	339.25449	14.10838	123.34349	10.44001	0.0365138	0.17850720	3.1239127	20	—	—
244979 2004 BL_{82}	15.4	X	358.78614	238.40092	263.95122	8.88670	0.1724836	0.18133689	3.0913294	20	1 3.5	18.9
244980 2004 BR_{84}	15.6	X	298.84844	298.77768	247.56354	11.69137	0.2561171	0.17557651	3.1585792	20	—	—
244981 2004 BF_{86}	15.1	X	312.96102	229.32296	293.77302	10.64833	0.1265691	0.17510344	3.1642657	20	—	—
244982 2004 BT_{91}	15.4	X	0.67487	257.67985	272.06189	9.65110	0.1183141	0.18580575	3.0415616	20	2 11.3	19.2
244983 2004 BM_{93}	16.2	X	113.36929	282.51380	177.96687	4.35085	0.1904697	0.19706216	2.9246051	20	5 9.8	20.7
244984 2004 BO_{98}	15.5	X	97.25645	38.68275	343.76585	8.28478	0.0813192	0.17423551	3.1747651	20	1 5.5	20.0
244985 2004 BN_{103}	17.2	X	27.16688	332.42479	121.31184	24.17255	0.0745633	0.36017422	1.9564149	20	—	—
244986 2004 BN_{109}	15.1	X	267.81574	219.55087	356.56941	17.54776	0.2137814	0.17360948	3.1823926	20	—	—
244987 2004 BK_{113}	15.2	X	3.51346	27.13168	111.07295	18.60643	0.1641329	0.18069443	3.0986525	20	1 8.1	18.7
244988 2004 BQ_{115}	15.7	X	2.12614	359.87571	111.07655	6.88678	0.1515050	0.17834650	3.1257889	20	—	—
244989 2004 BZ_{117}	16.2	X	338.82912	252.35734	225.94837	9.75156	0.2556712	0.17628004	3.1501698	20	—	—
244990 2004 BX_{118}	16.1	X	357.02967	111.55186	16.88801	13.59182	0.2340180	0.18037363	3.1023254	20	—	—
244991 2004 BD_{119}	15.8	X	92.48290	169.34773	325.74589	5.23787	0.0400583	0.19694194	2.9257951	20	5 5.9	19.9
244992 2004 BO_{119}	15.6	X	34.48877	352.85579	110.90076	12.88617	0.2429435	0.18324122	3.0698743	20	1 23.2	18.3
244993 2004 BE_{140}	16.9	X	208.88408	45.55996	134.04810	4.35532	0.0291671	0.22462199	2.6802041	20	11 29.1	20.5
244994 2004 BH_{147}	15.4	X	230.17723	341.45580	308.25910	9.01270	0.0093460	0.18525072	3.0476338	20	2 7.3	19.7
244995 2004 BK_{149}	16.2	X	61.27790	245.71193	107.23310	6.60480	0.0582010	0.23049484	2.6344821	20	—	—
244996 2004 BK_{152}	15.5	X	183.09314	4.47283	314.07521	7.03640	0.0343794	0.18291216	3.0735551	20	1 20.3	20.0
244997 2004 CT_{3}	15.4	X	259.17551	126.32884	134.67221	17.88054	0.0905922	0.18344110	3.0676440	20	1 30.2	20.1
244998 2004 CV_{7}	16.3	X	69.42572	354.03340	147.29315	12.08404	0.1529889	0.19300011	2.9654983	20	5 6.7	20.4
244999 2004 CE_{10}	15.8	X	31.10801	329.43675	119.83222	7.90296	0.1490405	0.18047629	3.1011488	20	—	—
245000 2004 CK_{25}	16.4	X	240.86226	281.38241	9.01403	2.60266	0.0247450	0.18750366	3.0231722	20	2 20.7	20.8
245001 2004 CQ_{29}	16.7	X	124.20107	287.54871	195.34987	0.62310	0.0566168	0.20091631	2.8870829	20	6 3.3	20.7
245002 2004 CE_{34}	15.5	X	274.99765	311.33595	286.34822	8.83366	0.0280724	0.18544612	3.0454926	20	1 26.1	19.8
245003 2004 CR_{44}	16.1	X	14.91640	219.53387	306.64947	5.81734	0.1328300	0.18911221	3.0060048	20	3 2.3	19.5
245004 2004 CN_{50}	17.0	X	213.45566	248.72563	347.74800	17.13458	0.1807917	0.34940729	1.9964024	20	—	—
245005 2004 CK_{53}	15.4	X	38.65603	180.48056	270.73381	6.72427	0.0966521	0.18044358	3.1015237	20	1 7.3	19.2
245006 2004 CX_{56}	15.8	X	41.78278	54.46640	36.20812	14.83656	0.3100513	0.18353685	3.0665769	20	2 4.2	18.8
245007 2004 CV_{72}	14.5	X	3.51045	30.85537	131.22389	12.64990	0.0336758	0.12425074	3.9774377	20	2 23.7	19.9
245008 2004 CQ_{76}	15.8	X	315.31360	16.69815	148.36758	8.67147	0.0816510	0.17678326	3.1441889	20	—	—
245009 2004 CP_{85}	15.1	X	214.90893	312.82045	337.23120	14.77956	0.0332188	0.18001932	3.1063948	20	1 25.2	19.7
245010 2004 CY_{95}	15.6	X	317.86222	274.61613	316.09583	4.18145	0.1100624	0.18563993	3.0433726	20	2 28.5	19.7
245011 2004 CM_{107}	15.7	X	280.27839	116.26168	142.76401	11.69770	0.0163555	0.18570383	3.0426744	20	3 2.3	19.9
245012 2004 CR_{107}	15.5	X	43.56283	276.14620	154.56829	12.42273	0.1414104	0.17791427	3.1308495	20	—	—
245013 2004 CJ_{108}	15.9	X	11.01307	40.84963	60.90560	6.96005	0.1164727	0.17729500	3.1381357	20	—	—
245014 2004 CU_{111}	15.7	X	60.33581	249.58649	144.76801	16.66299	0.2325034	0.17640664	3.1486624	20	—	—
245015 2004 CB_{115}	15.0	X	5.82287	1.29891	124.10186	29.10463	0.1257225	0.17792562	3.1307163	20	1 1.6	19.1
245016 2004 DH_{10}	15.1	X	307.88917	241.19833	302.77698	6.12293	0.1238656	0.17664400	3.1458412	20	—	—
245017 2004 DM_{39}	15.9	X	123.56887	274.69718	143.63279	9.71162	0.0191108	0.18718524	3.0265997	20	3 10.6	20.2
245018 2004 DL_{51}	15.5	X	306.73161	207.42886	2.12550	9.19154	0.1068970	0.17827582	3.1266151	20	1 24.4	19.9
245019 2004 DP_{59}	16.5	X	43.22328	286.13741	156.59207	4.81883	0.0418699	0.23750492	2.5823849	20	—	—
245020 2004 DQ_{61}	16.0	X	56.89304	136.07620	327.10299	3.18007	0.0930806	0.18370467	3.0647090	20	2 17.8	19.9
245021 2004 DN_{62}	15.8	X	18.94742	34.39085	129.90975	11.04776	0.0332008	0.18824338	3.0152471	20	3 11.1	19.9
245022 2004 DB_{66}	15.2	X	271.58168	50.59536	155.04137	10.57759	0.0325113	0.17286186	3.1915619	20	—	—
245023 2004 DB_{69}	16.2	X	316.60222	265.34933	117.56189	11.00085	0.1502103	0.21833047	2.7314494	20	9 25.5	19.3
245024 2004 EV_{3}	14.9	X	49.58507	315.30191	138.63014	28.34933	0.1433333	0.17923138	3.1154923	20	1 31.6	18.8
245025 2004 EL_{10}	15.6	X	308.29527	224.23771	344.19456	9.14901	0.0286509	0.17980848	3.1088225	20	2 3.9	19.9
245026 2004 EG_{12}	15.9	X	77.66761	323.00752	160.89278	10.65208	0.2148864	0.19077970	2.9884634	20	5 3.9	20.1
245027 2004 EQ_{13}	16.0	X	314.46184	66.14202	126.92802	5.82215	0.1048709	0.17701328	3.1414644	20	1 11.9	20.4
245028 2004 EM_{17}	15.0	X	280.52995	225.85904	31.63370	18.57633	0.2716251	0.17650200	3.1475282	20	2 5.9	20.3
245029 2004 EX_{21}	16.8	X	136.03269	111.92905	138.09413	3.58727	0.1341087	0.27679780	2.3318161	20	12 9.4	20.3
245030 2004 EH_{23}	15.8	X	76.16016	322.40382	138.87791	5.25617	0.1009014	0.18429528	3.0581579	20	3 15.8	19.8
245031 2004 EE_{45}	16.6	X	32.66324	190.02924	170.20143	6.28711	0.0685429	0.21997700	2.7178023	20	12 16.6	20.4
245032 2004 EB_{52}	15.5	X	223.40331	324.66703	347.49467	13.16846	0.0639349	0.18302631	3.0722770	20	2 26.0	20.1
245033 2004 EB_{56}	15.9	X	337.50334	294.27055	209.60489	9.84804	0.2768115	0.17463788	3.1698867	20	—	—
245034 2004 EE_{58}	15.8	X	49.88164	106.92612	6.95413	9.36567	0.0448743	0.18148423	3.0896560	20	2 20.4	20.0
245035 2004 EK_{63}	15.5	X	63.09523	245.28555	185.67693	26.25390	0.2241664	0.17920427	3.1158065	20	1 31.1	19.7
245036 2004 EM_{69}	16.0	X	124.28560	258.94673	171.80126	9.62892	0.0710565	0.18734936	3.0248319	20	4 1.8	20.3
245037 2004 EB_{75}	16.2	X	34.56792	87.15176	47.65734	1.59296	0.1501420	0.18374398	3.0642720	20	2 28.8	19.7
245038 2004 EL_{76}	16.0	X	53.24756	356.80765	162.52143	8.81821	0.0632183	0.18896818	3.0075321	20	4 22.9	20.0
245039 2004 EM_{77}	15.9	X	20.68249	77.77066	96.77679	2.95787	0.1197438	0.18584534	3.0411296	20	3 27.4	19.4
245040 2004 EZ_{80}	15.9	X	0.78568	87.49817	27.76287	16.43464	0.2446026	0.17618144	3.1513449	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
245041 2004 EK_{87}	16.0	X	132.23635	1.01829	52.91048	1.98186	0.1050377	0.18720868	3.0263471	20	3 24.4	20.4
245042 2004 FZ_{19}	16.3	X	258.06333	357.03216	191.00270	8.00920	0.0768028	0.22827148	2.6515609	20	—	—
245043 2004 FD_{20}	16.5	X	322.60961	295.48713	277.02644	2.11484	0.2446375	0.17941117	3.1134105	20	1 25.4	20.4
245044 2004 FU_{24}	15.4	X	237.47111	339.73323	292.13995	7.89207	0.0484964	0.17679013	3.1441074	20	1 24.0	19.9
245045 2004 FQ_{26}	16.6	X	333.98859	265.85529	11.54906	7.55087	0.3518798	0.18880414	3.0092738	20	4 19.4	19.5
245046 2004 FT_{31}	16.9	X	220.49034	147.20773	158.24048	23.22534	0.0801992	0.35609635	1.9713226	20	1 20.1	19.8
245047 2004 FN_{46}	16.0	X	111.83310	16.03294	207.79137	8.57802	0.2560759	0.20569347	2.8422070	20	10 10.9	20.8
245048 2004 FL_{69}	16.0	X	305.56069	192.30625	31.88218	2.68374	0.1236830	0.17706649	3.1408351	20	2 5.7	20.3
245049 2004 FU_{71}	16.3	X	334.30712	142.70203	32.85094	3.20058	0.0230650	0.17765692	3.1338723	20	1 27.3	20.6
245050 2004 FA_{79}	16.5	X	323.39865	159.16432	53.96549	0.46355	0.1067028	0.18002724	3.1063036	20	2 16.6	20.6
245051 2004 FK_{80}	16.2	X	32.29066	77.68734	24.65292	3.46670	0.1489444	0.17839424	3.1252313	20	1 14.5	19.7
245052 2004 FO_{85}	15.3	X	188.86472	287.51795	35.56552	15.78527	0.0514947	0.17516416	3.1635343	20	2 8.4	20.3
245053 2004 FT_{91}	15.2	X	243.02487	172.98101	78.41879	13.34046	0.0921924	0.17114650	3.2128519	20	1 4.4	20.1
245054 2004 FW_{97}	15.7	X	50.86581	39.65601	83.68183	9.55576	0.2656780	0.18502899	3.0500681	20	4 2.3	19.2
245055 2004 FS_{98}	15.6	X	56.67339	64.40251	26.43626	5.32192	0.1335736	0.17900662	3.1180996	20	2 9.3	19.5
245056 2004 FN_{107}	15.4	X	304.73823	21.47525	204.32988	11.67279	0.2005114	0.17557017	3.1586553	20	1 23.2	20.0
245057 2004 FW_{129}	15.5	X	275.39321	31.01551	176.12075	18.41772	0.1868683	0.16963806	3.2318697	20	—	—
245058 2004 FL_{132}	15.8	X	155.34763	212.58274	185.25472	9.29158	0.0844182	0.18698781	3.0287297	20	3 26.9	20.3
245059 2004 FS_{133}	17.0	X	186.52954	212.64933	58.25738	22.77548	0.0368220	0.35242088	1.9850051	20	—	—
245060 2004 FF_{147}	15.3	X	11.91735	319.07354	217.11126	26.90849	0.1081017	0.18180101	3.0860658	20	3 7.2	19.6
245061 2004 FN_{148}	15.4	X	310.22772	175.47076	71.56347	18.77531	0.1450789	0.18130689	3.0916703	20	3 16.8	19.9
245062 2004 GF_{3}	15.4	X	239.14825	126.27264	205.85147	9.49012	0.0750701	0.18405497	3.0608192	20	4 3.6	19.9
245063 2004 GD_{5}	15.2	X	10.66834	80.23029	76.24690	11.08053	0.0629580	0.17711993	3.1402032	20	2 21.9	19.5
245064 2004 GL_{7}	15.6	X	255.50805	213.79508	24.15019	9.63103	0.0377462	0.17483490	3.1675050	20	1 7.0	20.3
245065 2004 GV_{10}	16.0	X	49.28539	36.88391	45.32291	5.40793	0.1410290	0.18254742	3.0776478	20	1 16.6	19.6
245066 2004 GG_{12}	15.9	X	26.38399	262.73139	230.16567	11.45632	0.3094406	0.18111684	3.0938327	20	2 11.7	18.6
245067 2004 GX_{21}	15.3	X	342.92780	306.52494	205.74884	15.69046	0.1813648	0.17668058	3.1454069	20	—	—
245068 2004 GY_{39}	15.7	X	317.87005	289.05969	277.53904	7.40123	0.0790606	0.17501217	3.1653656	20	2 3.6	20.0
245069 2004 GG_{53}	17.0	X	99.80877	242.35644	195.86080	12.69976	0.2240237	0.24416171	2.5352318	20	3 27.7	20.4
245070 2004 GA_{57}	16.4	X	9.35203	141.54114	5.76910	0.59637	0.1416544	0.17903923	3.1177210	20	1 31.9	20.1
245071 2004 GX_{58}	15.8	X	161.43106	287.40058	215.26924	5.12954	0.0644723	0.20111307	2.8851996	20	8 9.7	20.1
245072 2004 GR_{59}	15.9	X	319.52344	43.86371	185.38304	9.43880	0.1346059	0.18020074	3.1043094	20	2 25.4	20.0
245073 2004 GS_{77}	15.3	X	322.91206	139.29822	77.03684	23.85147	0.1395369	0.17799321	3.1299237	20	2 25.1	19.9
245074 2004 HJ	14.8	X	245.66034	166.28255	141.74412	29.20800	0.1787960	0.17616132	3.1515849	20	3 7.5	20.0
245075 2004 HB_{12}	15.5	X	267.55705	50.85226	214.31543	17.30181	0.1023090	0.17347836	3.1839960	20	2 7.7	20.6
245076 2004 HC_{64}	15.1	X	250.25147	77.89525	178.12860	17.22627	0.1102093	0.16800548	3.2527729	20	1 14.1	20.4
245077 2004 JV_{1}	14.9	X	294.17778	10.95295	264.62828	13.22216	0.1097023	0.17983618	3.1085033	20	3 18.9	19.6
245078 2004 JU_{36}	16.8	X	70.64322	46.35537	217.95063	4.20094	0.1951444	0.20054179	2.8906763	20	10 16.4	21.1
245079 2004 JD_{42}	14.7	X	323.03940	340.95402	301.97368	22.74675	0.2795729	0.17743932	3.1364339	20	4 6.3	19.0
245080 2004 LN_{4}	14.8	X	272.93143	72.86105	254.68097	8.46872	0.1723487	0.17996554	3.1070136	20	4 22.8	19.4
245081 2004 MK_{6}	16.4	X	179.55158	159.35153	145.20330	25.02916	0.1894293	0.27897839	2.3196494	20	—	—
245082 2004 NY_{10}	16.1	X	264.23120	144.10886	136.80817	7.08124	0.2408848	0.22887966	2.6468617	20	2 9.3	20.5
245083 2004 NK_{14}	15.7	X	0.59461	91.36904	174.02843	4.07417	0.1313437	0.18210497	3.0826309	20	6 22.9	19.2
245084 2004 NV_{28}	17.6	X	26.21462	31.33354	243.09366	4.02547	0.1627787	0.31185407	2.1536168	20	9 11.3	19.6
245085 2004 OV_{6}	15.6	X	268.42354	309.36114	60.93772	1.63570	0.1747317	0.17950472	3.1123288	20	6 11.9	20.0
245086 2004 OL_{11}	15.4	X	318.15788	195.79135	79.39518	12.27022	0.1936215	0.17516598	3.1635124	20	4 21.1	19.5
245087 2004 PU	15.4	X	3.96928	349.18539	299.28781	8.41721	0.1012921	0.18237519	3.0795852	20	7 29.2	19.2
245088 2004 PJ_{7}	16.7	X	211.58016	344.85594	313.78473	5.47526	0.1748737	0.28291173	2.2980991	20	1 14.9	20.2
245089 2004 PZ_{8}	17.2	X	173.00645	346.37570	346.35702	6.51884	0.1739291	0.27976098	2.3153214	20	1 23.5	20.7
245090 2004 PB_{9}	17.4	X	247.06278	199.56446	126.92756	3.75850	0.1865253	0.29195817	2.2503788	20	3 21.4	20.9
245091 2004 PA_{12}	15.3	X	343.27370	166.80522	144.67975	16.76145	0.0611617	0.18243964	3.0788598	20	7 26.4	19.4
245092 2004 PA_{14}	15.3	X	17.33877	113.33351	136.97963	20.72399	0.2240354	0.18097981	3.0953942	20	7 11.8	18.7
245093 2004 PC_{24}	14.5	X	36.41703	323.33232	308.35158	10.31532	0.2065620	0.12535021	3.9541457	20	8 30.9	19.5
245094 2004 PT_{25}	17.0	X	26.40118	302.20583	45.53539	2.29656	0.2050525	0.25706428	2.4496736	20	12 22.1	20.1
245095 2004 PY_{25}	14.8	X	225.45284	85.39266	323.29629	24.44684	0.2662985	0.17257089	3.1951483	20	6 8.3	20.7
245096 2004 PF_{27}	14.8	X	258.01423	256.37431	102.05187	10.37080	0.1042253	0.17457413	3.1706585	20	5 27.2	19.5
245097 2004 PD_{33}	17.9	X	302.42386	351.97159	330.39225	2.15918	0.1641179	0.30172889	2.2015309	20	5 26.4	20.0
245098 2004 PN_{34}	17.4	X	296.29002	140.34416	149.26211	4.32644	0.1424326	0.29645456	2.2275662	20	4 3.1	19.8
245099 2004 PQ_{37}	16.1	X	276.41887	306.18853	327.40820	10.80534	0.1671870	0.22797856	2.6538317	20	2 19.0	20.1
245100 2004 PY_{38}	15.8	X	274.94591	289.93798	333.64748	10.74513	0.1584914	0.22420145	2.6835546	20	2 8.4	19.8
245101 2004 PS_{39}	17.1	X	210.72694	171.09057	158.67010	6.90177	0.1452826	0.28578216	2.2826849	20	2 20.4	20.7
245102 2004 PL_{40}	15.5	X	225.72652	173.82045	161.83643	13.96632	0.2584952	0.22554525	2.6728849	20	3 14.3	20.1
245103 2004 PW_{58}	15.1	X	257.97537	37.17391	315.16293	8.44266	0.0489269	0.17313654	3.1881853	20	5 23.1	19.8
245104 2004 PF_{59}	18.0	X	308.26386	39.92104	282.95661	1.86125	0.1669608	0.30302337	2.1952566	20	6 7.3	19.9
245105 2004 PB_{65}	17.1	X	66.81572	41.22071	312.02544	2.46873	0.1137781	0.26451631	2.4034462	20	—	—
245106 2004 PL_{70}	17.0	X	254.75187	82.52852	316.34586	16.27044	0.2104320	0.23937281	2.5689334	20	7 2.5	20.9
245107 2004 PG_{79}	17.0	X	168.20406	132.97474	199.90552	5.99399	0.1521191	0.27910962	2.3189222	20	1 14.6	20.4
245108 2004 PY_{80}	17.5	X	184.37384	219.45007	130.53143	3.99488	0.1372173	0.28468435	2.2885495	20	2 21.5	20.7
245109 2004 PR_{89}	16.1	X	285.87040	122.13105	211.95732	4.10322	0.2008322	0.17395606	3.1781643	20	5 15.1	20.5
245110 2004 PO_{97}	15.5	X	317.72182	335.06534	328.59194	8.68695	0.0798084	0.17494574	3.1661669	20	6 5.6	19.8
245111 2004 PM_{98}	15.0	X	273.76695	248.67815	98.64804	10.40310	0.1003102	0.17497469	3.1658176	20	6 1.2	19.5
245112 2004 PE_{101}	16.8	X	277.21621	339.56690	323.31771	6.71330	0.1836949	0.29257531	2.2472131	20	3 18.0	19.9
245113 2004 PD_{114}	14.8	X	289.12225	197.97519	117.82277	17.20347	0.1243637	0.17111557	3.2132390	20	5 13.6	19.5
245114 2004 PJ_{114}	16.5	X	278.96339	358.10828	27.43360	6.64383	0.2142994	0.24188268	2.5511317	20	7 13.7	19.7
245115 2004 QO_{12}	17.5	X	347.74920	201.20868	104.52967	9.19830	0.2522139	0.30740668	2.1743386	20	8 25.4	18.3
245116 2004 QY_{12}	15.3	X	317.62932	246.08208	76.27416	10.29218	0.1062542	0.17818362	3.1276936	20	6 28.2	19.3
245117 2004 QN_{14}	16.6	X	175.37926	136.47621	192.05161	8.47669	0.2111709	0.27980399	2.3150842	20	1 19.6	20.5
245118 2004 QG_{18}	16.4	X	109.35197	61.25857	286.49518	11.72822	0.2997619	0.26703681	2.3882986	20	—	—
245119 2004 QS_{20}	14.5	X	292.60937	25.60019	287.71257	16.91193	0.1538329	0.17224363	3.1991942	20	4 28.5	19.3
245120 2004 QP_{21}	17.1	X	182.02583	38.93679	351.50310	4.62183	0.1420932	0.28931510	2.2640637	20	4 9.3	20.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
245121 2004 QX_{27}	15.3	X	312.60173	301.61501	13.57367	10.86021	0.1309553	0.17821098	3.1273734	20	6 5.6	19.5
245122 2004 RG_{6}	16.3	X	240.74688	262.25873	85.00322	11.35186	0.2172965	0.22977785	2.6399595	20	4 15.7	20.8
245123 2004 RE_{18}	17.3	X	197.44119	285.07952	104.66509	5.60210	0.1721684	0.28985633	2.2612445	20	4 27.2	20.9
245124 2004 RN_{47}	16.0	X	194.19175	348.30790	348.41533	7.05062	0.2881139	0.22089536	2.7102644	20	2 22.7	20.8
245125 2004 RQ_{52}	15.2	X	201.33693	57.88554	7.99047	5.14922	0.1208703	0.17019486	3.2248171	20	6 15.6	20.3
245126 2004 RJ_{57}	17.4	X	225.10514	207.61781	192.02849	6.94095	0.1072564	0.29740006	2.2228425	20	6 10.6	20.4
245127 2004 RD_{65}	17.0	X	264.41243	170.43370	159.24918	3.84573	0.1920857	0.29418231	2.2390219	20	4 11.5	20.0
245128 2004 RE_{66}	17.0	X	127.60259	209.97065	189.15819	3.16693	0.0893640	0.27943491	2.3171222	20	2 16.1	19.9
245129 2004 RR_{68}	17.0	X	221.53999	177.18553	161.00666	5.50552	0.1874840	0.28720060	2.2751628	20	3 11.9	20.7
245130 2004 RB_{76}	17.4	X	236.64208	224.77164	139.36428	5.49601	0.1376693	0.29262958	2.2469353	20	5 4.3	20.6
245131 2004 RD_{78}	16.8	X	184.40879	10.18041	5.75849	7.10722	0.1172104	0.28522387	2.2856627	20	3 24.7	20.0
245132 2004 RV_{88}	15.6	X	292.71104	81.38308	234.73609	7.94870	0.2607502	0.17518344	3.1633022	20	4 20.6	20.2
245133 2004 RL_{94}	16.0	X	180.99983	88.82081	250.65483	4.33434	0.0703358	0.21899079	2.7259559	20	2 6.8	20.1
245134 2004 RT_{95}	15.3	X	332.15831	117.43671	180.29878	10.49205	0.0859975	0.17720710	3.1391734	20	6 20.2	19.5
245135 2004 RP_{104}	16.6	X	30.31767	176.13832	228.54584	5.08237	0.1187852	0.26257804	2.4152594	20	—	—
245136 2004 RJ_{106}	17.1	X	188.44158	49.55527	314.53756	2.58222	0.1851011	0.28387781	2.2928822	20	3 14.2	20.7
245137 2004 RY_{106}	16.7	X	325.78950	334.54927	338.63783	11.98730	0.1817109	0.24219274	2.5489538	20	6 25.0	19.4
245138 2004 RU_{172}	17.6	X	119.65383	176.23113	249.62199	5.31661	0.0711104	0.28411781	2.2915909	20	3 7.8	20.5
245139 2004 RQ_{214}	16.3	X	125.02959	26.00403	289.99062	9.69084	0.2578280	0.26832054	2.3806749	20	—	—
245140 2004 RX_{237}	17.0	X	313.46994	217.88220	325.58761	4.42121	0.1762192	0.27615932	2.3354088	20	—	—
245141 2004 RM_{248}	17.0	X	83.08817	261.12049	114.29929	3.27645	0.2093701	0.26491783	2.4010171	20	—	—
245142 2004 RQ_{257}	15.8	X	74.10746	37.55038	1.03038	4.92134	0.1523415	0.20513525	2.8473609	20	—	—
245143 2004 RR_{257}	14.6	X	264.54167	350.44650	355.86835	7.64988	0.0531020	0.16794673	3.2535314	20	5 22.8	19.3
245144 2004 RB_{288}	15.8	X	145.22473	6.30627	38.48997	5.31716	0.1081028	0.21703099	2.7423416	20	3 26.2	19.8
245145 2004 RW_{291}	16.6	X	207.46248	33.88636	264.39578	5.28842	0.1097008	0.27753686	2.3276746	20	1 9.2	20.0
245146 2004 RV_{311}	16.9	X	127.03440	201.71684	194.11646	6.55759	0.1023720	0.27751938	2.3277724	20	2 12.0	19.9
245147 2004 RS_{319}	16.0	X	35.41472	323.18190	308.42459	8.93862	0.0596906	0.24486666	2.5303637	20	8 25.4	19.2
245148 2004 RJ_{329}	17.4	X	279.78967	58.69781	255.09275	6.48387	0.1034908	0.29328471	2.2435880	20	4 17.3	20.2
245149 2004 RZ_{331}	17.5	X	231.45198	308.22578	74.32075	7.36955	0.1423181	0.29464576	2.2366735	20	5 21.8	20.5
245150 2004 RM_{332}	16.6	X	220.36662	305.52679	102.67279	14.19328	0.2654771	0.23086117	2.6316944	20	6 5.9	21.2
245151 2004 RG_{339}	17.3	X	219.20500	161.28558	217.22586	4.17151	0.1452978	0.29015895	2.2596720	20	5 2.4	20.4
245152 2004 RP_{341}	16.2	X	323.35575	146.89747	145.00262	1.85377	0.1492307	0.17605572	3.1528450	20	5 22.9	19.9
245153 2004 SJ_{13}	17.8	X	273.05361	243.18789	142.35961	6.09835	0.1860052	0.30203079	2.2000636	20	7 11.6	20.1
245154 2004 SO_{15}	16.3	X	172.94219	296.07733	84.64934	7.32465	0.1536760	0.22119500	2.7078162	20	3 28.7	20.7
245155 2004 SC_{17}	17.1	X	276.71794	238.08297	95.90848	7.42828	0.2048619	0.29659785	2.2268488	20	5 1.9	20.0
245156 2004 SH_{41}	17.2	X	179.81384	350.94484	27.45927	3.45903	0.1793143	0.28323820	2.2963328	20	3 26.1	20.7
245157 2004 TK_{3}	18.3	X	339.39078	180.14934	190.39045	1.49701	0.1436153	0.31052486	2.1597582	20	11 14.4	19.9
245158 Thomasandrews	17.4	X	340.42719	34.60359	291.98039	3.77846	0.2312312	0.30407327	2.1902006	20	9 2.9	18.2
245159 2004 TM_{29}	17.3	X	31.06098	286.77327	177.16518	6.23382	0.0824106	0.27189490	2.3597645	20	—	—
245160 2004 TG_{41}	16.6	X	142.04166	294.36059	67.45244	6.84554	0.1287228	0.27381807	2.3487023	20	1 24.2	19.8
245161 2004 TY_{42}	16.6	X	293.09857	177.54716	10.27147	7.11269	0.0949824	0.26727599	2.3868736	20	—	—
245162 2004 TO_{55}	17.1	X	62.09840	196.08922	202.77238	6.22365	0.1126520	0.26358384	2.4091113	20	—	—
245163 2004 TW_{89}	16.5	X	254.17274	347.62111	296.64512	12.20085	0.1591207	0.28276303	2.2989047	20	2 2.9	19.9
245164 2004 TC_{90}	17.5	X	306.56302	16.27030	278.19213	2.39178	0.1648556	0.29335595	2.2432247	20	4 19.4	20.0
245165 2004 TA_{97}	17.0	X	210.03153	104.44083	196.11146	5.07276	0.1135363	0.27650902	2.3334393	20	1 14.3	20.5
245166 2004 TB_{101}	16.7	X	180.97962	57.89021	182.34673	4.45939	0.1096003	0.26105946	2.4246167	20	—	—
245167 2004 TR_{103}	16.7	X	33.66181	266.77134	196.32079	7.94357	0.0807174	0.27280889	2.3544910	20	—	—
245168 2004 TE_{104}	16.9	X	68.71795	68.13419	8.08553	7.00373	0.0884961	0.27639872	2.3340601	20	1 15.2	19.4
245169 2004 TE_{109}	16.9	X	116.27897	192.50626	228.49383	4.18942	0.2068703	0.27616033	2.3354031	20	3 18.5	20.1
245170 2004 TE_{116}	16.8	X	316.61681	159.96572	302.28726	7.53402	0.0395815	0.25922546	2.4360393	20	—	—
245171 2004 TM_{116}	16.7	X	224.58587	83.04666	275.05111	6.27510	0.1494659	0.28872393	2.2671532	20	4 7.2	20.2
245172 2004 TU_{124}	16.8	X	178.45822	281.09356	101.41081	2.87501	0.2010662	0.22190399	2.7020454	20	4 3.6	21.3
245173 2004 TA_{135}	16.9	X	195.06751	250.38260	174.96008	4.51466	0.2225984	0.22942120	2.6426948	20	6 7.3	21.5
245174 2004 TO_{135}	16.4	X	123.44057	141.96238	234.50072	6.17909	0.1882807	0.27275103	2.3548240	20	1 25.9	19.5
245175 2004 TL_{136}	16.1	X	103.99729	96.37055	327.89698	7.06763	0.2183336	0.21252230	2.7809918	20	3 15.2	20.1
245176 2004 TO_{136}	16.3	X	135.10727	100.63074	241.68695	6.29139	0.1472919	0.27061131	2.3672207	20	—	—
245177 2004 TD_{138}	15.8	X	199.51042	355.21346	45.35087	13.88534	0.1885522	0.22323578	2.6912881	20	5 11.0	20.1
245178 2004 TW_{143}	16.6	X	112.23293	215.88014	200.32082	2.29387	0.1818593	0.21243046	2.7817933	20	3 11.1	20.7
245179 2004 TZ_{172}	15.7	X	203.60843	78.05411	251.20043	12.06675	0.1635287	0.21589784	2.7519287	20	2 14.7	20.5
245180 2004 TQ_{173}	14.4	X	101.81152	166.11477	303.33152	8.64955	0.0745755	0.15552825	3.4244950	20	4 19.9	19.5
245181 2004 TD_{176}	16.9	X	135.98407	346.40358	37.16735	4.16572	0.1855776	0.27449586	2.3448345	20	2 21.7	20.2
245182 2004 TM_{190}	17.4	X	160.36821	58.42444	192.28472	6.46479	0.0839020	0.25924926	2.4358902	20	—	—
245183 2004 TP_{210}	17.3	X	359.43710	200.68901	348.17669	2.78340	0.0972215	0.28065497	2.3104021	20	2 25.4	19.5
245184 2004 TD_{239}	17.4	X	282.99025	77.81541	212.40674	2.21105	0.0598073	0.28534845	2.2849974	20	3 28.4	20.2
245185 2004 TA_{247}	16.8	X	255.30922	208.39449	121.21512	8.91335	0.2261858	0.29062524	2.2572543	20	4 1.7	20.4
245186 2004 TW_{255}	17.6	X	355.61261	278.24149	358.30689	1.49675	0.1438053	0.29963110	2.2117946	20	7 8.3	19.2
245187 2004 TN_{266}	16.9	X	43.98213	231.75635	209.35723	7.95794	0.0835134	0.26735590	2.3863980	20	—	—
245188 2004 TD_{273}	17.2	X	324.67917	263.45248	339.15754	2.62847	0.1222441	0.28198685	2.3031213	20	3 12.1	19.4
245189 2004 TV_{273}	16.7	X	231.42478	205.10661	240.64029	3.11946	0.2134737	0.23498489	2.6008148	20	8 3.8	20.7
245190 2004 TA_{283}	16.8	X	154.08770	312.84738	40.77844	5.76580	0.2636089	0.27443847	2.3451613	20	2 9.5	20.6
245191 2004 TN_{287}	16.8	X	180.62704	178.65959	196.73367	4.90403	0.1762752	0.28184005	2.3039210	20	3 21.6	20.5
245192 2004 TA_{288}	17.3	X	193.72758	193.33856	162.87055	2.43617	0.1519235	0.28189916	2.3035989	20	3 9.6	20.9
245193 2004 TB_{299}	16.7	X	335.33473	163.47469	192.69776	3.32417	0.1584723	0.24329359	2.5412590	20	9 23.6	19.0
245194 2004 TQ_{301}	16.7	X	31.11267	34.64951	61.99132	5.72930	0.1644860	0.26683732	2.3894888	20	—	—
245195 2004 TP_{304}	17.5	X	48.80951	221.21317	197.15507	2.37235	0.1415486	0.26696834	2.3887070	20	—	—
245196 2004 TA_{325}	17.3	X	188.39684	17.12528	348.38039	2.25034	0.1222670	0.28200684	2.3030125	20	3 15.4	20.6
245197 2004 TC_{332}	17.5	X	238.46867	116.55461	199.45591	2.87322	0.1815184	0.28412752	2.2915386	20	2 27.4	21.1
245198 2004 TN_{340}	16.6	X	193.06370	0.91711	77.82014	12.76360	0.1524887	0.22966979	2.6407876	20	6 23.5	20.8
245199 2004 TO_{366}	16.6	X	5.24873	12.42873	54.51544	14.17748	0.1979088	0.25846097	2.4408405	20	—	—
245200 2004 UJ_{2}	17.1	X	146.63287	331.16361	66.86149	6.46222	0.1668483	0.28092282	2.3089332	20	3 21.5	20.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
245201 2004 UQ_{4}	15.9	X	277.53156	86.94261	296.18402	14.21456	0.1430883	0.23600123	2.5933424	20	7 18.3	19.2
245202 2004 UG_{9}	16.4	X	246.61029	291.06440	10.14457	7.50512	0.1678170	0.28167236	2.3048353	20	2 21.0	19.9
245203 2004 VL_{5}	16.0	X	266.17458	350.38879	24.78186	12.47985	0.1918552	0.23289200	2.6163730	20	6 12.3	19.9
245204 2004 VG_{6}	16.3	X	230.80332	306.86388	87.24374	3.87509	0.0892122	0.22831200	2.6512472	20	6 10.4	19.9
245205 2004 VT_{15}	16.7	X	224.82152	263.81341	72.89011	6.80916	0.2150778	0.28674895	2.2775512	20	3 15.3	20.5
245206 2004 VT_{24}	16.7	X	169.97458	341.61934	1.56203	6.32797	0.1991763	0.27558236	2.3386673	20	2 5.3	20.4
245207 2004 VZ_{25}	17.3	X	167.88436	141.28093	242.71560	1.61067	0.1716490	0.27937295	2.3174648	20	3 20.5	20.9
245208 2004 VO_{38}	17.6	X	16.67248	47.79281	44.31841	1.40501	0.1564272	0.26165629	2.4209283	20	—	—
245209 2004 VZ_{52}	16.1	X	220.65988	182.17605	232.34027	12.34885	0.1481661	0.22943936	2.6425554	20	6 19.7	20.3
245210 2004 VL_{57}	16.1	X	223.69876	144.86808	258.01387	5.39563	0.1442868	0.22746322	2.6578385	20	6 8.8	20.2
245211 2004 VY_{57}	15.7	X	264.61645	184.03035	234.63008	10.12240	0.1427848	0.23550278	2.5970004	20	8 13.6	19.3
245212 2004 VF_{72}	16.8	X	220.08568	132.82487	230.12055	5.51218	0.1295847	0.28451293	2.2894687	20	4 12.3	20.1
245213 2004 VA_{96}	15.5	X	307.57162	327.07183	157.22366	11.71489	0.0483174	0.19290885	2.9664335	20	—	—
245214 2004 WZ_{8}	16.0	X	260.41417	139.58367	326.48350	3.52094	0.2106807	0.24157759	2.5532791	20	10 4.9	19.2
245215 2004 WW_{9}	16.1	X	160.02165	313.94944	58.79018	24.12306	0.3005434	0.28131307	2.3067973	20	3 22.5	20.7
245216 2004 XG_{5}	14.7	X	348.91941	127.76970	298.33423	2.51430	0.2527028	0.12430025	3.9763815	20	12 22.6	18.9
245217 2004 XL_{19}	15.8	X	236.57291	306.79465	83.30127	15.59044	0.1049093	0.22624391	2.6673794	20	6 10.3	19.5
245218 2004 XN_{20}	16.8	X	196.90330	231.59220	141.04686	1.68450	0.2668348	0.28253909	2.3001193	20	4 3.1	20.7
245219 2004 XU_{20}	16.4	X	127.33501	195.53938	276.29589	6.51847	0.0467395	0.28190401	2.3035725	20	5 20.8	19.4
245220 2004 XY_{21}	16.6	X	346.78965	176.03107	256.05938	5.65518	0.1572243	0.25156895	2.4852191	20	—	—
245221 2004 XJ_{28}	15.9	X	260.88339	224.64563	220.37582	29.66103	0.2281717	0.23848885	2.5752773	20	8 26.7	20.1
245222 2004 XW_{37}	15.8	X	80.10772	229.94676	183.13017	15.05239	0.1411514	0.20398583	2.8580471	20	1 19.4	19.7
245223 2004 XC_{45}	17.2	X	109.20099	300.45246	95.36173	3.40002	0.2227668	0.26912061	2.3759543	20	2 11.4	20.1
245224 2004 XF_{53}	16.8	X	280.28301	190.10340	95.94432	3.65826	0.1616852	0.27827229	2.3235717	20	3 7.7	19.9
245225 2004 XV_{77}	17.0	X	291.04668	8.75564	76.31953	7.85156	0.1322522	0.24403520	2.5361079	20	11 11.2	19.6
245226 2004 XM_{88}	17.8	X	291.30169	115.31472	274.07442	2.53250	0.1720427	0.29975701	2.2111752	20	8 21.6	19.5
245227 2004 XH_{98}	16.8	X	58.50653	268.58300	84.75667	4.97745	0.0746809	0.24764543	2.5113997	20	—	—
245228 2004 XD_{100}	16.1	X	16.09324	93.13171	272.84065	2.05728	0.1595867	0.24462876	2.5320039	20	12 21.7	19.1
245229 2004 XF_{100}	16.5	X	208.65720	140.82814	272.28915	7.32675	0.1641461	0.22237449	2.6982328	20	6 5.4	20.8
245230 2004 XL_{106}	16.6	X	207.57124	326.77953	53.27502	7.35058	0.2404053	0.28457652	2.2891276	20	4 21.6	20.4
245231 2004 XL_{113}	16.8	X	273.26534	213.60812	69.23522	5.12553	0.1298000	0.27738931	2.3285000	20	2 29.3	20.0
245232 2004 XH_{119}	16.1	X	319.55724	183.04978	292.09252	3.55323	0.0838364	0.18593657	3.0401348	20	—	—
245233 2004 XF_{126}	15.9	X	219.17562	270.52345	108.07666	13.46099	0.2829783	0.22483298	2.6785271	20	5 2.9	20.9
245234 2004 XM_{126}	16.0	X	340.54635	141.57106	267.40652	13.67776	0.0936767	0.24591665	2.5231559	20	12 16.3	18.9
245235 2004 XK_{129}	15.3	X	22.21322	343.93398	75.08569	12.81386	0.0979677	0.18735471	3.0247743	20	—	—
245236 2004 XL_{130}	16.2	X	331.98157	75.74760	299.17134	22.65435	0.2813231	0.30208487	2.1998010	20	11 12.4	18.1
245237 2004 XW_{132}	15.8	X	214.05678	59.88291	266.45227	22.02675	0.2123148	0.27910686	2.3189375	20	2 9.3	20.2
245238 2004 XW_{134}	16.1	X	289.59102	340.09423	70.51389	15.30165	0.1285020	0.23804517	2.5784762	20	9 27.6	19.4
245239 2004 XL_{141}	15.1	X	277.84265	339.91003	118.87299	5.15934	0.1402383	0.17695426	3.1421629	20	10 22.8	19.2
245240 2004 XM_{146}	15.7	X	195.70819	301.07555	112.44196	12.70664	0.1763851	0.21890628	2.7266574	20	5 27.7	20.3
245241 2004 XC_{160}	16.3	X	161.64033	74.31440	77.81391	12.36274	0.1292310	0.22704335	2.6611143	20	9 1.2	20.7
245242 2004 XF_{162}	16.4	X	303.43381	76.65742	346.80120	3.41427	0.1809210	0.24053087	2.5606811	20	10 25.2	18.8
245243 2004 XU_{162}	16.2	X	252.82412	19.50062	77.02035	7.64603	0.1441960	0.23426833	2.6061155	20	9 26.9	19.7
245244 2004 XF_{163}	16.1	X	28.64599	137.93927	60.55337	4.85739	0.0119606	0.21352988	2.7722365	20	5 2.4	19.6
245245 2004 XG_{163}	16.1	X	174.81914	285.08144	210.24712	7.72106	0.2973018	0.22346022	2.6894857	20	8 11.9	21.1
245246 2004 XD_{186}	15.5	X	262.59937	220.37480	317.03933	11.34162	0.0011468	0.18677320	3.0310493	20	—	—
245247 2004 YP	15.9	X	205.95537	78.32396	13.48321	26.20450	0.2307487	0.22615224	2.6681001	20	7 28.9	20.9
245248 2004 YZ	16.9	X	3.69653	104.29316	74.06081	27.85323	0.0221710	0.39372064	1.8436448	20	2 14.9	19.4
245249 2004 YT_{1}	16.2	X	197.51376	285.99239	106.95565	22.74518	0.2340310	0.28348656	2.2949914	20	5 8.5	20.6
245250 2004 YG_{3}	15.5	X	256.47208	162.49783	219.14709	13.03435	0.1731009	0.22930852	2.6435605	20	6 13.3	19.4
245251 2004 YH_{4}	16.4	X	204.83305	266.71478	109.57838	4.94907	0.1158674	0.21418335	2.7665950	20	4 21.1	20.7
245252 2004 YZ_{26}	16.2	X	295.96081	325.42980	123.34656	8.83276	0.1652191	0.23603493	2.5930956	20	11 20.9	18.9
245253 2004 YC_{31}	16.7	X	356.03893	303.25194	138.32836	7.85976	0.1649909	0.25261458	2.4783565	20	—	—
245254 2004 YE_{33}	16.8	X	183.74731	230.20827	159.13620	5.91541	0.2164844	0.28256474	2.2999800	20	4 14.4	20.6
245255 2005 AU_{1}	16.2	X	308.19785	280.49406	128.26799	11.14098	0.2043587	0.23820232	2.5773421	20	10 17.6	18.7
245256 2005 AW_{7}	15.7	X	347.51109	125.20991	317.76032	12.02997	0.1793133	0.18496127	3.0508125	20	—	—
245257 2005 AG_{8}	16.5	X	173.15338	29.71350	104.30015	5.20789	0.2347480	0.22396788	2.6854200	20	8 13.9	21.1
245258 2005 AM_{14}	16.0	X	155.02138	151.22782	328.30142	4.16208	0.1231991	0.21945465	2.7221133	20	7 9.0	20.3
245259 2005 AL_{16}	16.2	X	106.85826	213.68240	287.30709	6.81116	0.1945692	0.21476444	2.7616023	20	6 22.8	20.3
245260 2005 AM_{18}	15.9	X	325.83353	99.24845	300.91055	6.23485	0.2694207	0.24030042	2.5623180	20	11 9.6	17.6
245261 2005 AX_{21}	16.1	X	250.68627	31.09121	106.93705	12.97458	0.1208297	0.23881043	2.5729649	20	11 22.1	19.5
245262 2005 AA_{26}	16.7	X	93.36569	270.49661	122.50859	6.06347	0.1571596	0.26118593	2.4238339	20	1 5.6	19.3
245263 2005 AH_{29}	16.8	X	354.29341	326.21888	124.77348	6.80156	0.1947147	0.25276067	2.4774014	20	—	—
245264 2005 AC_{43}	15.9	X	265.47178	300.10984	129.13864	12.47406	0.1642785	0.23241034	2.6199867	20	9 1.9	19.3
245265 2005 AT_{45}	17.3	X	267.27553	277.24849	114.85154	5.40022	0.1940281	0.29262529	2.2469573	20	7 11.3	19.7
245266 2005 AF_{54}	15.8	X	311.44470	77.74810	43.36954	2.28309	0.1318821	0.18172295	3.0869495	20	—	—
245267 2005 AW_{56}	15.6	X	284.33104	123.85918	56.39814	10.98258	0.1637498	0.18723955	3.0260144	20	—	—
245268 2005 AB_{58}	15.8	X	171.88608	332.13640	71.91712	14.26269	0.1729404	0.21281407	2.7784494	20	4 27.1	20.5
245269 2005 AP_{61}	15.6	X	243.99644	63.25257	323.62949	21.04265	0.0090867	0.21726427	2.7403782	20	7 1.6	19.6
245270 2005 AX_{61}	16.2	X	261.12840	12.62933	119.87570	15.23815	0.1826314	0.23952619	2.5678365	20	11 21.9	19.5
245271 2005 AE_{82}	17.0	X	28.26168	161.30275	288.47893	2.19197	0.1526970	0.26331667	2.4107406	20	—	—
245272 2005 BJ	16.2	X	184.89908	61.43626	114.56456	14.96029	0.0760837	0.23531168	2.5984063	20	10 30.2	20.3
245273 2005 BQ	16.5	X	164.62021	154.96953	314.65481	4.04378	0.1306433	0.21974357	2.7197267	20	7 5.9	20.8
245274 2005 BQ_{5}	16.2	X	276.57351	318.37857	101.86730	16.84407	0.1715387	0.23424284	2.6063046	20	9 9.7	19.7
245275 2005 BQ_{10}	16.6	X	192.49898	288.17351	244.87121	2.19213	0.1212022	0.23382104	2.6094380	20	10 23.2	20.5
245276 2005 BG_{18}	15.7	X	299.14866	100.57894	330.46898	10.82872	0.1950958	0.17689234	3.1428962	20	10 5.1	19.6
245277 2005 BK_{19}	15.1	X	293.26234	122.71470	313.51293	25.99737	0.1971500	0.17576677	3.1562995	20	9 19.8	19.5
245278 2005 BR_{24}	16.5	X	211.28257	339.42294	133.42737	5.44164	0.0533219	0.22905771	2.6454899	20	9 4.9	20.2
245279 2005 BZ_{32}	12.9	X	314.39206	157.29281	122.61762	21.10661	0.1375431	0.08244598	5.2282505	20	5 6.7	19.7
245280 2005 BK_{48}	15.9	X	157.29970	141.30652	207.67088	6.20380	0.0784810	0.18187069	3.0852776	20	1 29.0	20.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
245281 2005 CY_1	15.7	X	121.03629	221.13043	305.93970	8.10370	0.0983285	0.21747273	2.7386267	20	7 31.8	19.6
245282 2005 CR_2	17.0	X	257.55239	5.81571	122.00801	3.31937	0.1431573	0.23826579	2.5768843	20	11 12.2	20.1
245283 2005 CS_7	15.9	X	288.59898	129.76409	275.91963	17.26018	0.1363401	0.23064196	2.6333617	20	8 26.9	19.5
245284 2005 CT_8	16.9	X	236.70707	62.32681	126.64144	10.68644	0.2082122	0.24080913	2.5587081	20	12 23.5	20.3
245285 2005 CZ_8	16.2	X	136.59502	224.21252	359.72034	4.11312	0.1796457	0.23034059	2.6356581	20	10 30.4	20.5
245286 2005 CV_{10}	17.1	X	24.05229	196.71890	359.03995	5.59967	0.1573354	0.26842544	2.3800547	20	4 23.9	19.1
245287 2005 CV_{17}	17.0	X	191.07198	346.69956	153.12553	2.84166	0.2315530	0.22838330	2.6506953	20	9 3.7	21.5
245288 2005 CF_{19}	16.9	X	226.23233	58.88960	146.32100	6.87412	0.1878534	0.24229769	2.5482177	20	—	—
245289 2005 CY_{26}	16.8	X	203.80040	76.63093	84.03456	3.55510	0.1048149	0.23319133	2.6141336	20	10 23.3	20.6
245290 2005 CB_{29}	17.1	X	108.26691	198.39119	37.06469	2.28060	0.0162971	0.22863213	2.6487718	20	10 8.2	20.5
245291 2005 CD_{43}	15.7	X	199.16197	290.81071	146.34895	14.54665	0.1038143	0.21946512	2.7220267	20	6 30.1	20.0
245292 2005 CU_{46}	17.5	X	201.39287	284.75435	118.68883	1.63760	0.2087405	0.27919525	2.3184480	20	5 16.1	21.2
245293 2005 CF_{53}	16.1	X	116.20432	18.70934	131.16832	10.89162	0.1258635	0.21294393	2.7773197	20	7 6.6	20.3
245294 2005 CL_{63}	16.3	X	172.05563	21.06002	160.43196	15.39521	0.0899096	0.22940024	2.6428559	20	10 18.1	20.4
245295 2005 CE_{64}	16.7	X	163.83872	310.15395	120.17493	3.72807	0.1383062	0.27737703	2.3285687	20	5 16.4	20.2
245296 2005 CN_{64}	16.3	X	25.41702	32.36159	347.56825	8.58656	0.2714307	0.24537089	2.5268960	20	—	—
245297 2005 CS_{68}	15.8	X	143.79518	172.45111	330.44278	11.67087	0.0925713	0.22119667	2.7078025	20	7 28.0	19.9
245298 2005 CX_{68}	16.6	X	315.44897	276.49764	284.90693	7.17665	0.0867225	0.25829183	2.4419060	20	1 11.5	19.8
245299 2005 CK_{69}	16.7	X	211.42598	227.28236	249.82719	1.75312	0.0888463	0.22688137	2.6623807	20	9 4.4	20.6
245300 2005 CX_{79}	16.5	X	253.69315	74.98550	61.59674	5.20520	0.0600039	0.23782400	2.5800746	20	11 29.2	19.6
245301 2005 EE_6	17.0	X	250.27530	289.63630	29.24416	1.90747	0.1590381	0.26348455	2.4097165	20	3 18.1	20.6
245302 2005 EG_{11}	16.6	X	274.98335	25.90569	97.07803	5.32080	0.1092141	0.23946943	2.5682423	20	12 6.8	19.6
245303 2005 EN_{16}	15.9	X	256.67426	74.15297	321.77472	5.99539	0.0303544	0.21565624	2.7539837	20	7 24.1	19.6
245304 2005 EZ_{26}	16.3	X	150.38588	155.51202	3.78202	4.72638	0.0570435	0.21948637	2.7218510	20	8 23.5	20.2
245305 2005 EA_{28}	15.7	X	175.27642	307.52166	166.95120	26.45304	0.2352850	0.21914195	2.7247021	20	7 20.1	20.8
245306 2005 EN_{28}	16.8	X	95.12615	54.22166	94.30547	3.47775	0.1019339	0.27196123	2.3593809	20	6 7.8	19.8
245307 2005 ER_{34}	16.2	X	179.50075	114.61026	3.95087	4.67955	0.0619244	0.21903416	2.7255960	20	8 4.1	20.2
245308 2005 EA_{35}	16.6	X	176.77314	265.00971	301.99717	3.80179	0.1735822	0.22938239	2.6429929	20	11 13.7	20.9
245309 2005 EX_{35}	15.9	X	89.90337	212.68731	317.22218	8.49122	0.1445013	0.20972372	2.8056771	20	7 5.8	19.9
245310 2005 EH_{36}	16.0	X	141.31341	265.78115	312.42836	13.49127	0.1502951	0.22681996	2.6628612	20	10 21.4	20.6
245311 2005 EA_{37}	15.5	X	110.09703	23.43306	177.24114	12.44187	0.1663723	0.21543301	2.7558858	20	9 5.9	19.9
245312 2005 EQ_{37}	16.3	X	55.03055	53.64921	352.42527	4.37227	0.1013083	0.18390353	3.0624993	20	—	—
245313 2005 EY_{40}	15.5	X	307.09674	38.76451	61.24717	15.22964	0.1349437	0.17678893	3.1441216	20	12 5.4	19.3
245314 2005 EH_{58}	16.1	X	329.03619	247.67405	180.18248	14.64027	0.0686683	0.23596674	2.5935951	20	12 18.9	19.5
245315 2005 EP_{61}	15.7	X	357.98114	319.12557	175.36135	10.03549	0.0432252	0.18884204	3.0088712	20	1 2.2	19.9
245316 2005 EY_{65}	16.5	X	181.29180	131.19685	349.55280	4.51486	0.1230116	0.21976483	2.7195513	20	8 6.7	20.8
245317 2005 EN_{69}	15.8	X	231.85285	353.15723	242.98779	3.54021	0.0842581	0.18047321	3.1011841	20	—	—
245318 2005 EO_{72}	16.2	X	289.57904	45.99185	55.65823	7.88374	0.1559165	0.23819024	2.5774292	20	11 25.5	18.9
245319 2005 ES_{73}	16.3	X	197.97875	78.10940	18.69150	6.30820	0.0906303	0.21806087	2.7337002	20	7 26.8	20.5
245320 2005 EY_{75}	15.4	X	350.67923	129.35509	352.82689	11.80340	0.0813618	0.18423283	3.0588490	20	—	—
245321 2005 EU_{81}	16.7	X	228.95812	158.86942	283.55436	0.87366	0.0647548	0.22119088	2.7078498	20	8 13.8	20.4
245322 2005 EE_{82}	17.0	X	88.98997	80.27769	227.63044	1.04364	0.0951560	0.23447272	2.6046008	20	12 23.8	20.8
245323 2005 EH_{85}	16.4	X	217.48990	356.25220	146.32933	12.24212	0.1316804	0.23055181	2.6340480	20	10 14.9	20.4
245324 2005 EQ_{87}	16.3	X	199.71902	66.34145	5.18032	4.19296	0.0463495	0.21142889	2.7905716	20	6 26.2	20.3
245325 2005 EW_{90}	16.8	X	114.76485	286.48169	240.06406	2.27656	0.0897398	0.27787288	2.3257977	20	7 26.6	19.9
245326 2005 EL_{91}	16.1	X	341.62248	173.54221	194.68154	14.86958	0.1260531	0.22616304	2.6680152	20	10 19.9	18.8
245327 2005 EV_{92}	15.6	X	278.35090	197.31596	8.77712	7.04299	0.1816944	0.18279776	3.0748373	20	—	—
245328 2005 EQ_{107}	15.7	X	69.09077	327.31845	240.26798	6.92896	0.1548423	0.21223910	2.7834651	20	7 27.9	19.6
245329 2005 EZ_{116}	16.7	X	335.92160	206.74245	164.93358	6.26657	0.0301818	0.22482796	2.6785669	20	10 12.7	20.1
245330 2005 EH_{128}	16.3	X	9.27778	113.50735	180.08436	11.09007	0.2270232	0.21445954	2.7642192	20	8 31.1	18.9
245331 2005 EO_{133}	15.0	X	234.13905	32.10375	356.32161	24.83960	0.1100791	0.21334781	2.7738135	20	5 28.0	19.7
245332 2005 EG_{138}	16.1	X	106.64506	138.26969	122.70090	10.47385	0.0833604	0.22706980	2.6609076	20	11 16.1	20.2
245333 2005 ED_{144}	16.4	X	254.49772	276.48235	171.12692	12.13982	0.1451365	0.22704362	2.6611122	20	9 11.3	19.8
245334 2005 EB_{147}	16.0	X	241.17534	198.35556	199.54989	5.73871	0.0483266	0.21046672	2.7990700	20	7 2.0	19.9
245335 2005 EW_{147}	16.0	X	143.76977	17.60429	169.35758	8.42845	0.0649698	0.22051178	2.7134065	20	9 19.9	19.8
245336 2005 EH_{148}	16.7	X	64.39019	159.88235	128.96840	3.57458	0.1607059	0.22127052	2.7072000	20	11 9.8	20.6
245337 2005 ED_{154}	15.8	X	122.89158	170.07832	17.27317	9.60761	0.1574156	0.21635688	2.7480349	20	9 5.7	20.2
245338 2005 ED_{166}	16.5	X	356.86493	170.21109	168.35950	6.18621	0.0606492	0.22178782	2.7029888	20	9 28.9	19.7
245339 2005 EP_{169}	14.6	X	198.12469	140.08303	119.71671	28.37080	0.1818221	0.17224630	3.1991611	20	—	—
245340 2005 EU_{169}	14.6	X	191.78605	155.28154	101.37732	28.96911	0.1608966	0.17331193	3.1860340	20	—	—
245341 2005 EU_{174}	16.7	X	105.33617	81.69669	191.80897	11.58107	0.3025460	0.22457089	2.6806107	20	12 7.9	21.7
245342 2005 EC_{178}	16.6	X	315.70728	34.13628	169.70408	6.45104	0.0924801	0.25931796	2.4354599	20	1 13.3	19.7
245343 2005 ES_{181}	15.9	X	70.93847	217.45686	17.10822	7.85647	0.0936380	0.21820972	2.7324569	20	9 1.0	19.6
245344 2005 EO_{184}	16.2	X	196.99014	298.71095	202.37827	11.05310	0.1401424	0.22327500	2.6909728	20	9 13.1	20.5
245345 2005 EH_{192}	16.7	X	310.85097	167.76494	208.26486	2.51930	0.1006175	0.22321001	2.6914951	20	9 3.9	19.8
245346 2005 EB_{203}	16.6	X	177.85453	54.86250	27.72891	4.59089	0.0328074	0.20842230	2.8173443	20	6 13.9	20.6
245347 2005 ED_{212}	16.4	X	174.70071	99.02182	129.98535	7.22230	0.1247543	0.23331970	2.6131747	20	12 13.7	20.5
245348 2005 EN_{216}	14.8	X	234.82025	29.55050	198.57021	28.36308	0.1563222	0.17410621	3.1763367	20	—	—
245349 2005 EL_{219}	15.6	X	255.39001	1.96281	200.30507	5.18998	0.1036706	0.17682475	3.1436970	20	—	—
245350 2005 EV_{219}	15.7	X	37.33725	47.98314	9.45743	12.70938	0.0979008	0.18074442	3.0980811	20	—	—
245351 2005 EC_{242}	16.4	X	94.46057	137.04509	90.76847	8.04596	0.2395224	0.21844044	2.7305326	20	10 6.4	21.0
245352 2005 EJ_{247}	16.2	X	64.94916	242.14597	5.57860	7.40708	0.1767341	0.21767490	2.7369308	20	9 20.4	19.9
245353 2005 ES_{250}	16.4	X	220.12113	78.62482	54.08841	4.27603	0.0515908	0.22884938	2.6470951	20	10 12.4	20.0
245354 2005 EW_{256}	16.7	X	247.07237	216.45749	200.73300	5.52919	0.0427462	0.21652909	2.7465776	20	8 4.5	20.5
245355 2005 EL_{263}	16.3	X	329.58173	352.17729	318.85712	1.87510	0.0675676	0.21113284	2.7931796	20	7 7.4	19.8
245356 2005 EY_{265}	16.0	X	84.97868	32.57736	209.31452	4.76164	0.0670966	0.21828136	2.7318590	20	9 20.2	19.8
245357 2005 EN_{270}	15.3	X	248.31066	296.94005	308.78313	15.39133	0.1861266	0.18085507	3.0968173	20	—	—
245358 2005 EF_{272}	16.7	X	22.60534	213.91903	164.09400	9.50331	0.1277330	0.23725505	2.5841977	20	—	—
245359 2005 EO_{272}	16.1	X	127.20037	121.76091	82.62221	12.93703	0.1279241	0.22210021	2.7004537	20	10 3.7	20.5
245360 2005 EA_{281}	15.1	X	334.34512	22.70810	99.17054	11.43570	0.0401289	0.17976947	3.1092722	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
245361 2005 EH_{324}	15.9	X	41.48089	191.73141	84.33402	7.82113	0.0925117	0.21664125	2.7456296	20	9 17.4	19.5
245362 2005 EC_{331}	15.2	X	302.84374	7.24281	243.87891	10.47620	0.0385552	0.19487061	2.9464912	20	3 10.2	19.5
245363 2005 FW_5	15.4	X	214.62997	23.32472	247.95459	8.72851	0.0666047	0.18354548	3.0664809	20	—	—
245364 2005 FS_6	16.0	X	150.98091	87.34080	64.93276	14.67864	0.1018599	0.21618909	2.7494566	20	8 20.9	20.5
245365 2005 FD_{14}	16.2	X	188.75522	321.69687	257.50245	12.13040	0.1157791	0.23292430	2.6161312	20	12 16.0	20.1
245366 2005 GS	16.1	X	129.09279	131.98884	30.69235	10.71948	0.0728710	0.21479202	2.7613659	20	8 6.6	20.3
245367 2005 GV_5	16.4	X	11.87225	48.63890	112.38295	3.46809	0.1026873	0.19051006	2.9912826	20	2 22.9	19.9
245368 2005 GW_{18}	17.3	X	354.08477	197.45915	173.73822	1.85581	0.1027643	0.22742697	2.6581210	20	11 12.5	20.3
245369 2005 GV_{31}	15.7	X	42.46236	87.86396	8.84570	9.60312	0.0282520	0.18609925	3.0383628	20	1 18.3	20.0
245370 2005 GL_{39}	16.9	X	46.95861	290.40210	20.02373	2.34350	0.0883920	0.22333388	2.6904999	20	11 4.7	20.5
245371 2005 GR_{60}	15.6	X	147.68413	265.06833	350.30399	11.36504	0.2464361	0.22939923	2.6428636	20	12 14.8	20.5
245372 2005 GS_{68}	16.4	X	201.43165	109.90635	123.35383	13.98075	0.1106306	0.23722583	2.5844099	20	—	—
245373 2005 GH_{73}	16.1	X	135.56913	72.50047	98.32126	9.38446	0.1678984	0.21570545	2.7535648	20	8 28.3	20.7
245374 2005 GY_{73}	16.3	X	215.60658	71.80336	155.46776	15.14470	0.0506835	0.23701476	2.5859441	20	—	—
245375 2005 GU_{77}	15.4	X	351.82533	38.50541	156.07751	13.77651	0.0923166	0.19318437	2.9636123	20	3 5.8	19.0
245376 2005 GC_{79}	15.9	X	201.67252	37.17170	138.73610	16.76625	0.1769741	0.22640592	2.6661067	20	11 5.5	20.4
245377 2005 GH_{86}	16.3	X	194.56750	177.34831	176.15496	3.86060	0.0738347	0.19203116	2.9754654	20	3 13.4	20.6
245378 2005 GD_{91}	15.3	X	299.46565	126.48990	0.99704	9.66568	0.0645702	0.17184356	3.2041576	20	—	—
245379 2005 GJ_{93}	15.8	X	33.10762	204.10697	79.86075	14.98157	0.1809474	0.21376536	2.7702002	20	10 3.6	19.5
245380 2005 GT_{99}	15.4	X	176.63799	92.48787	219.96443	10.06590	0.0198182	0.17742215	3.1366363	20	1 3.9	20.0
245381 2005 GO_{105}	16.3	X	267.10524	200.25778	142.75385	2.59238	0.1205320	0.20144439	2.8820351	20	5 14.7	20.3
245382 2005 GA_{108}	15.2	X	288.36461	102.09246	25.80263	17.51787	0.0127386	0.16937707	3.2351889	20	12 20.2	20.0
245383 2005 GS_{108}	15.3	X	142.31342	124.13426	203.93472	17.65929	0.0790108	0.17560478	3.1582402	20	—	—
245384 2005 GT_{109}	16.2	X	3.22236	322.00690	53.81107	4.31703	0.0898223	0.22665634	2.6641426	20	11 30.3	19.3
245385 2005 GZ_{111}	15.6	X	273.31654	272.30550	1.23090	9.35799	0.1129024	0.18976928	2.9990619	20	2 28.5	20.0
245386 2005 GZ_{116}	16.8	X	331.27818	29.52672	252.58170	2.53163	0.2173187	0.20021985	2.8937741	20	5 13.3	19.7
245387 2005 GG_{127}	15.4	X	78.09471	324.16807	156.49222	12.42839	0.0923502	0.19493928	2.9457992	20	4 11.9	19.5
245388 2005 GE_{129}	15.6	X	276.03219	6.60649	168.09972	9.49477	0.1689094	0.17550928	3.1593857	20	—	—
245389 2005 GU_{130}	15.8	X	146.27238	87.11256	161.51153	17.88541	0.1742580	0.22566677	2.6719252	20	12 9.4	20.6
245390 2005 GS_{131}	16.5	X	315.82313	218.18684	35.83236	12.98424	0.0555367	0.19568832	2.9382773	20	4 5.8	20.4
245391 2005 GW_{134}	16.1	X	122.93072	303.94701	216.31050	8.28404	0.0849918	0.20910044	2.8112497	20	7 21.3	20.4
245392 2005 GC_{162}	16.3	X	105.87229	107.86306	207.08955	2.20564	0.1734701	0.22894405	2.6463654	20	—	—
245393 2005 GH_{162}	16.0	X	101.76820	172.57030	95.26912	10.82718	0.1606341	0.22016529	2.7162526	20	11 22.4	20.4
245394 2005 GV_{163}	16.5	X	83.58167	110.08446	211.00180	3.56315	0.1019082	0.22858080	2.6491683	20	—	—
245395 2005 GQ_{166}	16.5	X	58.53516	171.52667	52.91545	4.35529	0.0403811	0.20833243	2.8181544	20	7 21.5	20.2
245396 2005 GP_{171}	16.3	X	304.33652	13.08981	217.67144	9.32122	0.0961858	0.18802838	3.0175452	20	2 10.0	20.7
245397 2005 GU_{172}	16.5	X	117.70413	2.49105	166.82708	4.40751	0.0393254	0.21003216	2.8029296	20	7 23.8	20.4
245398 2005 GW_{172}	16.5	X	24.51257	116.59099	185.22947	7.23863	0.2134498	0.21304877	2.7764084	20	10 10.9	19.6
245399 2005 GQ_{178}	16.3	X	346.65205	241.82697	84.59343	7.67743	0.0064762	0.21284328	2.7781952	20	8 27.8	20.1
245400 2005 GQ_{182}	17.0	X	115.78981	97.49956	102.30898	2.66898	0.0772046	0.21582565	2.7525424	20	9 5.7	21.0
245401 2005 GO_{184}	16.0	X	55.04856	233.25227	159.35647	11.00676	0.1068341	0.18148803	3.0896128	20	—	—
245402 2005 GQ_{184}	17.0	X	158.17875	137.17384	40.59338	3.13343	0.0960895	0.22421854	2.6834183	20	9 25.3	21.1
245403 2005 GF_{207}	16.4	X	214.86376	61.76009	23.03524	5.75505	0.0421673	0.21246224	2.7815159	20	8 3.8	20.3
245404 2005 GV_{208}	16.2	X	189.94450	156.18941	128.21497	15.71887	0.1280601	0.24509633	2.5287827	20	—	—
245405 2005 GU_{214}	16.4	X	341.85302	293.21382	44.24355	5.01689	0.0765578	0.21242201	2.7818670	20	9 4.5	19.8
245406 2005 HF_5	15.6	X	323.97013	161.31461	83.91840	11.90098	0.2196424	0.19063642	2.9899606	20	3 17.9	19.4
245407 2005 HG_9	16.0	X	307.02625	129.66132	119.30941	9.28794	0.0682557	0.18940301	3.0029272	20	3 17.9	20.2
245408 2005 JO	16.4	X	247.84377	164.01430	184.38225	3.30014	0.0577156	0.19772223	2.9180924	20	5 6.7	20.5
245409 2005 JW_4	17.8	X	265.33323	33.86596	206.87167	18.47425	0.0613104	0.37619621	1.9004646	20	—	—
245410 2005 JX_9	15.7	X	90.77276	31.39688	32.12470	9.07604	0.1313336	0.18751723	3.0230264	20	2 23.9	19.9
245411 2005 JO_{15}	16.1	X	310.59907	258.48975	73.83162	3.10944	0.0606626	0.20497905	2.8488072	20	7 7.9	19.8
245412 2005 JR_{18}	16.6	X	347.09431	112.12079	227.81408	6.62993	0.2388235	0.20977604	2.8052105	20	9 17.3	19.2
245413 2005 JE_{22}	16.7	X	161.19112	18.71146	85.66177	4.06158	0.1318455	0.27478269	2.3432024	20	6 27.0	20.2
245414 2005 JN_{24}	17.1	X	92.85533	132.03650	158.00545	1.40174	0.0439369	0.22394046	2.6856392	20	11 29.6	20.7
245415 2005 JV_{30}	16.2	X	145.67412	128.33069	181.33629	3.97768	0.2406709	0.23317563	2.6142510	20	—	—
245416 2005 JX_{38}	15.9	X	84.46697	88.13241	228.27377	7.58510	0.2036436	0.22347406	2.6893746	20	—	—
245417 Rostand	16.5	X	156.06533	109.06992	210.61406	13.70749	0.2066233	0.23784365	2.5799325	20	—	—
245418 2005 JX_{47}	15.4	X	178.91120	264.62383	53.10241	16.06478	0.0576939	0.17884519	3.1199756	20	1 18.2	20.3
245419 2005 JS_{48}	14.9	X	105.56363	339.66649	69.07327	25.29909	0.1558108	0.18131727	3.0915524	20	3 8.4	19.9
245420 2005 JL_{52}	15.5	X	234.29465	191.21855	99.28204	9.54136	0.0521650	0.18376567	3.0640308	20	2 13.2	20.1
245421 2005 JW_{63}	17.7	X	202.01428	74.59928	152.88999	23.35555	0.0506946	0.36270797	1.9472931	20	—	—
245422 2005 JN_{66}	15.9	X	277.33569	317.72461	232.74886	16.98798	0.1401457	0.17609566	3.1523682	20	—	—
245423 2005 JN_{72}	16.6	X	279.48547	270.82629	90.12434	3.17860	0.1036015	0.20423575	2.8557151	20	6 25.2	20.4
245424 2005 JF_{74}	15.7	X	113.74566	54.79243	236.90664	13.48031	0.0966752	0.22724744	2.6595207	20	12 26.8	19.9
245425 2005 JD_{76}	16.2	X	57.06837	87.91623	231.27137	12.17784	0.2146491	0.21872789	2.7281397	20	12 13.4	20.4
245426 2005 JA_{84}	15.6	X	261.61702	105.21893	222.21843	10.57680	0.0356885	0.19580568	2.9371031	20	4 28.8	19.8
245427 2005 JL_{89}	16.0	X	250.91421	278.30202	31.94568	12.39054	0.0398954	0.19596704	2.9354906	20	3 28.4	20.2
245428 2005 JW_{105}	15.7	X	71.16608	314.47909	90.05986	4.21521	0.0798563	0.17593428	3.1542957	20	—	—
245429 2005 JR_{107}	15.7	X	139.30452	167.97291	216.96330	14.42432	0.0901139	0.18344063	3.0676492	20	2 19.3	20.6
245430 2005 JM_{108}	16.1	X	218.30879	147.34170	173.41360	10.25038	0.1039061	0.18336594	3.0684821	20	2 26.5	20.9
245431 2005 JX_{108}	15.7	X	254.95367	150.08725	60.53341	28.88937	0.1194924	0.17873940	3.1212066	20	—	—
245432 2005 JN_{117}	16.2	X	303.16093	139.45181	196.19921	9.43590	0.1045383	0.20185562	2.8781195	20	6 24.5	20.0
245433 2005 JF_{119}	15.9	X	2.27129	58.51467	97.16877	7.74609	0.0863613	0.18379462	3.0637091	20	2 3.5	19.7
245434 2005 JL_{120}	15.3	X	156.68087	204.66712	119.77181	5.87968	0.1127057	0.17334030	3.1856864	20	1 5.7	20.1
245435 2005 JZ_{121}	16.1	X	100.26996	191.50304	184.27331	16.39111	0.3274034	0.23361954	2.6109383	20	1 22.3	19.9
245436 2005 JX_{132}	16.2	X	242.46849	49.76255	196.72082	9.79083	0.0275817	0.17640242	3.1487126	20	—	—
245437 2005 JT_{142}	15.5	X	63.79507	247.42638	80.30699	9.98652	0.3569884	0.22040858	2.7142534	20	—	—
245438 2005 JS_{146}	15.1	X	142.29224	98.00928	202.79183	21.40435	0.0374440	0.16842218	3.2474056	20	—	—
245439 2005 JZ_{147}	16.0	X	84.01564	197.03016	124.51628	12.86038	0.1688362	0.22469797	2.6795999	20	—	—
245440 2005 JO_{154}	15.7	X	75.42698	249.10858	224.24098	9.27504	0.0597500	0.19116101	2.9844880	20	3 19.1	19.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
245441 2005 JV_{161}	16.4	X	297.62114	222.43265	91.35624	3.30800	0.0477337	0.19958103	2.8999458	20	5 26.9	20.3
245442 2005 JK_{166}	15.5	X	337.15804	25.40309	143.29593	11.83781	0.0879220	0.18324538	3.0698279	20	1 12.9	19.6
245443 2005 JP_{174}	16.6	X	215.37765	326.17077	68.56927	3.10155	0.0754556	0.20263012	2.8707809	20	5 25.6	20.8
245444 2005 JZ_{176}	16.3	X	303.06329	94.49587	163.38557	7.55475	0.1106397	0.18894042	3.0078266	20	3 14.8	20.2
245445 2005 KG_{1}	16.2	X	75.87287	223.25156	130.09377	6.58970	0.2029717	0.22756437	2.6570509	20	—	—
245446 2005 KC_{5}	15.8	X	18.38561	9.06512	230.23570	11.75774	0.0362705	0.20025192	2.8934651	20	6 12.4	19.6
245447 2005 KK_{5}	16.2	X	19.33560	61.95572	86.13446	10.43865	0.1012361	0.18610487	3.0383016	20	2 21.8	20.1
245448 2005 KH_{8}	15.5	X	206.82260	61.93574	232.64561	9.14001	0.1935597	0.17523706	3.1626569	20	1 15.8	21.0
245449 2005 KE_{9}	15.3	X	175.62285	236.77222	67.76059	10.08576	0.0571467	0.17325246	3.1867631	20	—	—
245450 2005 LS	15.8	X	48.19222	86.88112	192.01123	24.57958	0.1338268	0.21094322	2.7948532	20	9 30.9	19.4
245451 2005 LV	15.7	X	197.97904	152.87537	138.09749	10.43830	0.0236446	0.17371332	3.1811243	20	1 4.8	20.4
245452 2005 LD_{3}	15.6	X	229.65682	81.59591	210.66494	25.91755	0.1768467	0.17727783	3.1383383	20	1 26.9	21.3
245453 2005 LU_{10}	16.2	X	57.35483	51.06634	158.99818	8.80810	0.0934889	0.20167658	2.8798227	20	7 6.3	20.1
245454 2005 LK_{11}	15.5	X	175.81564	61.41424	262.83951	3.95194	0.1171846	0.16998915	3.2274183	20	1 23.6	20.5
245455 2005 LC_{23}	16.3	X	262.33057	33.98266	294.74228	4.05661	0.1848707	0.18573536	3.0423300	20	4 11.2	20.9
245456 2005 LQ_{24}	15.3	X	127.28935	327.24549	65.36047	12.17892	0.1307260	0.18079079	3.0975513	20	3 2.3	20.2
245457 2005 LN_{37}	15.6	X	151.60123	234.65258	135.93667	8.71208	0.0332836	0.18187877	3.0851862	20	2 15.7	20.0
245458 2005 LN_{43}	16.1	X	191.23627	31.28434	248.05032	7.03700	0.1386273	0.23679239	2.5875628	20	—	—
245459 2005 LQ_{43}	15.4	X	215.31663	76.80224	261.76660	9.70277	0.0777349	0.17977299	3.1092317	20	3 13.0	20.3
245460 2005 LU_{46}	16.1	X	321.46953	137.58491	141.66775	6.29163	0.2545204	0.19096896	2.9864886	20	4 18.4	19.6
245461 2005 ME	15.5	X	263.78624	154.66072	137.83142	13.93374	0.0937038	0.18646734	3.0343630	20	3 15.4	20.0
245462 2005 MQ_{12}	16.1	X	36.60062	246.75797	130.66679	10.24008	0.2226570	0.21424093	2.7660992	20	—	—
245463 2005 MM_{14}	16.2	X	218.42456	83.47365	254.29177	3.79971	0.2557923	0.17688644	3.1429660	20	3 11.5	21.8
245464 2005 MR_{30}	15.5	X	260.58129	149.47972	149.23037	10.81288	0.1131554	0.17965416	3.1106026	20	3 16.5	20.1
245465 2005 MN_{45}	16.2	X	282.02283	173.76084	130.63344	1.39899	0.2071509	0.18595118	3.0399756	20	4 2.4	20.5
245466 2005 MG_{48}	15.9	X	323.82371	73.60212	145.89771	13.74642	0.1354765	0.17916593	3.1162510	20	2 21.5	19.8
245467 2005 MU_{52}	15.4	X	247.83617	93.59310	231.72166	11.81285	0.1279605	0.18056569	3.1001252	20	3 28.3	20.3
245468 2005 NF	16.9	X	65.80341	166.59566	159.90583	32.32754	0.1896049	0.34938064	1.9965039	20	—	—
245469 2005 NQ_{5}	16.2	X	241.88589	338.10906	296.05502	3.41733	0.1954019	0.17317357	3.1877309	20	1 22.5	21.3
245470 2005 NB_{27}	16.7	X	93.76243	93.46789	264.60555	4.59900	0.0988778	0.22528490	2.6749438	20	—	—
245471 2005 NO_{27}	16.3	X	343.68962	53.05538	248.40331	4.20818	0.0815511	0.19658615	2.9293242	20	7 14.2	19.9
245472 2005 NH_{41}	16.0	X	181.94636	160.56567	198.74932	1.82317	0.0880043	0.17606268	3.1527619	20	3 8.6	20.9
245473 2005 NU_{57}	17.0	X	289.99860	42.19432	126.77449	24.57010	0.0662864	0.35967570	1.9582223	20	—	—
245474 2005 NP_{59}	15.0	X	140.53743	327.16997	301.71033	8.83403	0.0522457	0.15300267	3.4620768	20	12 11.9	20.2
245475 2005 NF_{64}	15.6	X	316.50615	220.76508	134.03427	18.38457	0.1314146	0.19764021	2.9188998	20	8 9.0	18.8
245476 2005 NJ_{64}	15.6	X	168.37599	219.72723	139.63171	13.60276	0.1055969	0.17186114	3.2039391	20	2 27.2	20.6
245477 2005 NN_{66}	16.5	X	308.63414	231.02577	62.12374	1.64243	0.2228871	0.18922869	3.0047711	20	4 19.4	20.4
245478 2005 NO_{66}	16.4	X	286.98897	242.87375	54.42474	1.68938	0.1479172	0.18543564	3.0456074	20	4 7.5	20.7
245479 2005 NQ_{93}	15.9	X	165.54114	242.71508	118.49592	16.94750	0.0842251	0.17352585	3.1834150	20	2 27.3	20.9
245480 2005 NM_{95}	15.6	X	16.02100	16.74839	293.92519	14.39860	0.1065260	0.20401569	2.8577682	20	9 12.6	19.4
245481 2005 NC_{123}	16.8	X	62.69789	310.25761	28.61310	9.33628	0.2567902	0.28053263	2.3110737	20	—	—
245482 2005 OP_{3}	15.1	X	259.92833	238.68706	99.74686	17.59838	0.1611160	0.18544645	3.0454890	20	5 2.9	20.0
245483 2005 OA_{9}	15.4	X	233.46508	117.79399	229.46521	25.50641	0.3003354	0.17795998	3.1303134	20	3 28.2	21.3
245484 2005 OZ_{23}	15.3	X	230.36915	158.64311	165.98889	10.34480	0.0903903	0.17633713	3.1494898	20	3 17.1	20.1
245485 2005 PP_{10}	16.2	X	350.75557	335.65379	108.07699	6.57938	0.0362596	0.21896157	2.7261983	20	—	—
245486 2005 PF_{17}	17.9	X	49.31820	108.55462	314.92574	1.80838	0.1530797	0.29161370	2.2521506	20	—	—
245487 2005 PL_{18}	15.2	X	224.95583	190.64889	100.08219	16.59145	0.2379662	0.17239528	3.1973178	20	1 27.4	20.8
245488 2005 QL_{11}	15.6	X	230.01328	166.07114	145.41109	10.07714	0.0613179	0.17496289	3.1659599	20	3 3.7	20.2
245489 2005 QY_{17}	16.6	X	2.15327	28.52509	8.73114	2.69462	0.1610097	0.27419079	2.3465734	20	—	—
245490 2005 QR_{31}	15.4	X	292.02842	227.89644	164.89896	16.69101	0.2114805	0.19703655	2.9248585	20	8 6.2	19.2
245491 2005 QZ_{38}	15.8	X	292.95053	143.93419	164.43522	12.21761	0.0468241	0.18289554	3.0737412	20	5 16.6	20.2
245492 2005 QT_{40}	15.7	X	253.21307	145.33542	191.05410	8.16269	0.2811648	0.18087758	3.0965604	20	4 5.3	20.8
245493 2005 QT_{51}	15.7	X	274.09992	99.03773	176.77766	7.90302	0.1706496	0.17637357	3.1490560	20	2 23.3	20.4
245494 2005 QX_{56}	15.0	X	247.06143	35.87045	273.00065	8.26709	0.0587171	0.17504297	3.1649943	20	3 13.9	19.8
245495 2005 QY_{76}	15.8	X	243.47138	209.34099	87.62138	4.78145	0.2203883	0.17503843	3.1650491	20	2 18.5	21.1
245496 2005 QS_{85}	15.0	X	267.81211	128.89402	227.19018	10.90607	0.2885738	0.17984339	3.1084202	20	5 10.5	20.0
245497 2005 QQ_{102}	16.1	X	270.26202	152.85781	179.64386	9.89005	0.1268303	0.18217474	3.0818437	20	5 6.1	20.6
245498 2005 QK_{144}	15.6	X	213.44378	251.10468	145.28007	12.96482	0.2230450	0.17875535	3.1210210	20	5 21.0	21.1
245499 2005 QF_{156}	15.5	X	251.07021	77.50918	229.58241	14.50211	0.2180157	0.17620102	3.1511115	20	2 29.3	21.0
245500 2005 QQ_{156}	14.9	X	190.32607	109.47531	295.39008	15.14547	0.1002433	0.17770555	3.1333006	20	5 6.7	20.1
245501 2005 QC_{157}	15.6	X	290.36989	115.54751	196.20874	13.14817	0.2635255	0.18206216	3.0831140	20	4 13.5	19.9
245502 2005 QF_{166}	17.1	X	224.31779	177.53608	163.94398	22.17567	0.0959365	0.37740224	1.8964136	20	3 15.7	19.2
245503 2005 QL_{167}	15.8	X	264.14398	108.41132	206.03362	18.75527	0.2229643	0.18203677	3.0834007	20	3 22.8	20.7
245504 2005 QC_{169}	15.0	X	265.26380	98.13721	249.48054	10.37591	0.0765788	0.18166020	3.0876604	20	5 23.8	19.3
245505 2005 QV_{181}	15.6	X	205.97360	94.00101	317.07270	12.43403	0.2114609	0.17939326	3.1136178	20	5 27.7	21.1
245506 2005 RV	15.0	X	233.73294	60.21842	281.51488	14.52901	0.0897633	0.17582046	3.1556568	20	4 2.1	20.1
245507 2005 RD_{24}	14.9	X	278.61431	136.24169	230.49707	15.85321	0.2786998	0.18358896	3.0659966	20	6 4.9	19.4
245508 2005 RJ_{24}	15.6	X	261.68379	30.55245	339.54911	8.47899	0.2583507	0.18132490	3.0914656	20	5 22.8	20.5
245509 2005 RM_{32}	14.8	X	279.06976	55.03039	256.58719	26.38517	0.2195827	0.18379342	3.0637224	20	3 27.4	20.0
245510 2005 SK_{2}	16.8	X	80.30936	60.56910	250.06353	2.53344	0.1638842	0.21188398	2.7865743	20	12 19.6	21.0
245511 2005 SY_{42}	15.0	X	228.63339	114.22106	220.36775	7.83604	0.1084300	0.17055269	3.2203050	20	3 23.6	20.0
245512 2005 SQ_{54}	15.8	X	6.16691	246.92820	28.11731	1.25551	0.1520544	0.18611227	3.0382211	20	7 18.5	19.2
245513 2005 SY_{56}	14.6	X	251.31563	72.55465	285.42613	20.44269	0.0553036	0.17935706	3.1140367	20	5 21.5	19.3
245514 2005 SY_{61}	16.8	X	65.72357	139.09991	191.64279	2.60828	0.1859509	0.27538544	2.3397820	20	—	—
245515 2005 SE_{72}	15.3	X	4.83175	129.74546	172.09976	11.30351	0.1221960	0.19205564	2.9752126	20	8 19.3	18.8
245516 2005 SG_{72}	15.4	X	52.67017	117.34668	173.98020	12.19804	0.0190522	0.19728839	2.9223688	20	10 5.5	19.4
245517 2005 SE_{90}	15.4	X	320.00790	129.21692	206.45195	9.28283	0.1004860	0.18616182	3.0376820	20	7 18.9	19.4
245518 2005 SR_{103}	17.4	X	133.28268	310.62014	80.20529	8.01865	0.1290817	0.29570400	2.2313340	20	2 20.1	20.4
245519 2005 SQ_{104}	16.0	X	321.55265	287.52505	75.10515	2.71765	0.1739674	0.19167108	2.9791908	20	8 25.6	19.2
245520 2005 SM_{107}	15.3	X	20.67079	321.56954	313.21762	12.39437	0.1405444	0.19205115	2.9752590	20	8 11.9	18.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
245521 2005 SG_{113}	15.0	X	229.29689	68.04341	283.84679	15.10550	0.1033457	0.17707385	3.1407480	20	4 8.9	20.2
245522 2005 SP_{124}	16.2	X	1.40536	94.62779	202.84521	9.81505	0.2463892	0.19168552	2.9790412	20	8 14.2	19.1
245523 2005 SY_{144}	16.0	X	284.09186	238.15426	91.69136	2.83144	0.1997922	0.18249785	3.0782051	20	5 7.8	20.4
245524 2005 SM_{153}	15.6	X	324.93778	183.33694	196.65492	11.62936	0.0613084	0.19425500	2.9527131	20	9 29.3	19.3
245525 2005 SD_{167}	15.4	X	291.48497	176.76170	146.30498	11.25390	0.2962851	0.18363356	3.0655002	20	4 27.6	19.9
245526 2005 SN_{167}	15.6	X	296.16982	236.49912	79.03657	13.25258	0.2900130	0.18321592	3.0701570	20	4 25.9	20.0
245527 2005 SY_{177}	17.7	X	238.10488	61.28444	330.31900	4.22398	0.0521243	0.31642837	2.1328113	20	6 23.2	20.1
245528 2005 SG_{178}	16.9	X	113.90262	98.03197	240.17598	18.23835	0.0857372	0.35228486	1.9855160	20	—	—
245529 2005 SR_{197}	15.5	X	226.27089	134.39376	260.45472	15.34335	0.2041067	0.18205911	3.0831485	20	5 27.4	20.6
245530 2005 SE_{202}	15.0	X	82.77849	80.32789	279.55342	8.83505	0.1064481	0.15053091	3.4998727	20	—	—
245531 2005 SF_{208}	14.8	X	296.52325	49.04509	215.55866	14.18938	0.2392651	0.17392609	3.1785294	20	2 22.1	19.6
245532 2005 SZ_{214}	14.9	X	275.15154	92.54988	248.90049	9.17221	0.2013724	0.18074178	3.0981112	20	5 10.1	19.5
245533 2005 SV_{219}	15.0	X	230.69182	238.97391	142.32211	16.90671	0.2137720	0.17802270	3.1295781	20	5 19.3	20.5
245534 2005 SX_{272}	15.2	X	239.86238	307.72557	31.01372	15.90606	0.1244767	0.17578458	3.1560863	20	4 11.1	20.0
245535 2005 SV_{281}	16.1	X	280.77360	333.66275	81.69283	2.71191	0.0561752	0.19263254	2.9692695	20	9 14.8	20.1
245536 2005 SR_{285}	15.6	X	326.95444	89.28036	160.99458	17.11187	0.1918529	0.17015238	3.2253538	20	3 31.9	19.7
245537 2005 TW_{26}	16.1	X	346.05907	174.21385	149.17499	0.67935	0.1834595	0.18911508	3.0059744	20	8 17.4	19.2
245538 2005 TE_{46}	16.8	X	122.43386	259.88242	109.28337	24.08635	0.0993540	0.35802030	1.9642539	20	—	—
245539 2005 TO_{52}	16.2	X	269.05335	319.37148	37.48842	0.85456	0.2011997	0.18099429	3.0952291	20	5 23.1	20.6
245540 2005 TX_{75}	16.4	X	157.52786	329.19748	26.33025	9.42416	0.1651009	0.29327433	2.2436409	20	2 5.9	19.7
245541 2005 TA_{86}	16.4	X	13.06116	39.36984	6.96644	9.32076	0.2883915	0.27160086	2.3614674	20	—	—
245542 2005 TE_{88}	17.1	X	301.01091	30.74663	46.07358	3.37734	0.1403632	0.26618767	2.3933750	20	11 22.3	19.2
245543 2005 TA_{105}	15.1	X	232.33145	120.29010	299.27668	7.50205	0.0758568	0.18132600	3.0914531	20	7 15.4	19.6
245544 2005 TB_{167}	15.8	X	320.80018	116.71598	217.94308	7.32494	0.1368080	0.18615146	3.0377947	20	7 15.6	19.6
245545 2005 TC_{170}	15.7	X	276.56412	34.96010	305.65800	2.28361	0.2824789	0.18102224	3.0949105	20	4 29.9	20.5
245546 2005 TN_{172}	14.8	X	315.78530	19.19140	293.82868	21.54432	0.1796439	0.18581815	3.0414263	20	6 3.4	18.8
245547 2005 TO_{172}	16.9	X	156.67253	156.70480	225.58362	6.40775	0.1214871	0.29840046	2.2178716	20	2 28.3	20.1
245548 2005 TD_{192}	17.1	X	237.66191	278.94939	292.01246	5.49543	0.0647310	0.26266106	2.4147504	20	—	—
245549 2005 TE_{192}	17.2	X	275.63229	310.94837	307.10790	2.51845	0.1660059	0.27741066	2.3283805	20	1 24.3	20.4
245550 2005 UP_{5}	15.0	X	184.00934	275.20772	158.64318	25.39984	0.2062599	0.17324639	3.1868375	20	6 11.5	20.9
245551 2005 UU_{5}	15.3	X	243.95060	253.36043	160.12700	20.32769	0.3400518	0.17988901	3.1078947	20	6 24.1	20.9
245552 2005 UF_{8}	16.6	X	167.07665	274.99313	66.97463	4.87030	0.2004210	0.29356984	2.2421350	20	1 29.6	20.0
245553 2005 UG_{10}	15.8	X	287.11269	329.18795	83.26807	6.62048	0.0848688	0.19208429	2.9749167	20	9 18.2	19.7
245554 2005 UL_{16}	15.2	X	18.52962	202.25710	42.11551	28.39118	0.1019965	0.17851109	3.1238673	20	6 17.8	19.6
245555 2005 UU_{54}	17.2	X	256.09610	44.27855	321.85306	3.93917	0.1073616	0.31221168	2.1519720	20	5 31.7	19.7
245556 2005 UE_{57}	15.9	X	271.55417	295.06265	100.46033	2.62582	0.1262213	0.18517358	3.0484801	20	7 25.9	20.1
245557 2005 UE_{59}	14.9	X	301.43831	281.32049	60.56469	11.44586	0.0973262	0.17958767	3.1113703	20	6 30.9	19.0
245558 2005 UM_{74}	15.4	X	279.17394	124.61741	276.28725	8.20370	0.1109272	0.18599596	3.0394876	20	8 11.6	19.5
245559 2005 UJ_{75}	15.3	X	244.83176	135.09402	278.10834	16.07502	0.0771482	0.18433613	3.0577061	20	7 19.6	19.9
245560 2005 UD_{80}	16.8	X	69.80042	210.98268	185.01134	5.17551	0.1650086	0.28130664	2.3068325	20	—	—
245561 2005 UP_{81}	15.3	X	234.20424	133.58150	210.77958	10.58352	0.0852405	0.17318825	3.1875507	20	4 13.1	20.0
245562 2005 UQ_{107}	15.9	X	265.93027	232.84341	130.50771	7.00788	0.2401169	0.18199400	3.0838838	20	5 24.8	20.6
245563 2005 UF_{109}	16.0	X	277.38330	327.56923	100.44335	8.37040	0.2036374	0.19181747	2.9776749	20	9 6.6	20.0
245564 2005 UE_{110}	18.0	X	187.76921	5.46026	330.18477	1.76377	0.1712032	0.29455537	2.2371310	20	2 6.6	21.4
245565 2005 UF_{116}	15.8	X	211.31102	82.20705	25.72860	6.14890	0.1262849	0.18507099	3.0496066	20	8 19.7	20.5
245566 2005 UQ_{117}	15.8	X	341.93586	13.12513	281.76932	1.28095	0.1786439	0.18372262	3.0645094	20	6 27.5	19.1
245567 2005 UM_{127}	15.8	X	265.01118	7.56355	18.24499	1.10463	0.1036199	0.18112852	3.0936997	20	7 7.9	20.2
245568 2005 UR_{150}	16.9	X	41.89839	59.06703	49.38439	6.26424	0.1167708	0.28917276	2.2648067	20	1 12.0	18.9
245569 2005 UY_{153}	15.8	X	305.58613	43.00877	303.93840	0.56906	0.1696178	0.18297061	3.0729004	20	7 3.9	19.5
245570 2005 UT_{155}	15.8	X	327.32397	236.21135	95.92598	10.96616	0.1748837	0.18825408	3.0151329	20	7 23.1	19.1
245571 2005 UF_{160}	17.2	X	138.22507	242.35234	123.36017	4.58247	0.1767540	0.29282493	2.2459359	20	1 26.8	20.1
245572 2005 US_{196}	16.2	X	275.33619	201.44504	162.30217	1.36980	0.0616533	0.18000887	3.1065149	20	6 28.7	20.6
245573 2005 UH_{224}	16.3	X	328.14182	55.23426	292.45482	2.35028	0.0675192	0.18798181	3.0180435	20	8 21.3	20.0
245574 2005 UF_{252}	14.9	X	244.61045	50.33738	286.19613	12.25243	0.1402706	0.17389798	3.1788719	20	4 3.8	20.1
245575 2005 UA_{254}	17.1	X	62.64284	121.48326	267.18383	2.04215	0.2156817	0.27982074	2.3149917	20	—	—
245576 2005 UL_{274}	15.4	X	346.06247	15.38267	312.65807	9.30544	0.1094807	0.18808443	3.0169457	20	8 21.7	18.9
245577 2005 UQ_{283}	15.8	X	26.00069	208.94020	66.07473	5.51814	0.0874686	0.18612068	3.0381296	20	8 17.2	19.7
245578 2005 UQ_{336}	14.7	X	93.95265	137.25538	110.31775	3.31104	0.0934153	0.12366002	3.9900944	20	9 30.8	20.4
245579 2005 UD_{343}	16.2	X	71.94719	223.72653	87.95223	12.41517	0.2038488	0.27399636	2.3476834	20	12 28.2	19.7
245580 2005 UT_{348}	15.1	X	220.17556	197.01690	242.57974	17.29597	0.1583825	0.18082604	3.0971488	20	7 14.7	20.3
245581 2005 UM_{352}	15.6	X	327.83528	346.76941	351.11265	6.02517	0.0818428	0.18667101	3.0321555	20	8 9.1	19.3
245582 2005 UZ_{352}	15.6	X	256.88943	152.89318	277.61930	7.83994	0.1084037	0.18778561	3.0201453	20	8 20.7	19.9
245583 2005 UD_{354}	15.5	X	255.02793	34.20804	359.38969	5.97335	0.2062444	0.17912761	3.1166955	20	6 22.3	20.3
245584 2005 UG_{373}	17.5	X	346.70244	40.05292	278.43499	1.49518	0.0906433	0.31964754	2.1184675	20	8 30.2	19.0
245585 2005 UZ_{380}	15.5	X	323.97566	264.23308	77.50359	6.75116	0.0576143	0.18415755	3.0596825	20	8 10.2	19.5
245586 2005 UV_{384}	15.6	X	290.77782	233.72140	148.40196	11.15657	0.1999307	0.18594308	3.0400638	20	7 22.6	19.5
245587 2005 UL_{391}	15.7	X	224.71408	119.26796	184.88463	8.82923	0.2013636	0.17197664	3.2025044	20	2 9.5	21.2
245588 2005 UM_{399}	15.3	X	333.68587	238.80542	64.36052	14.60240	0.1505303	0.18071681	3.0983967	20	6 24.1	19.0
245589 2005 UX_{399}	17.4	X	19.89329	6.93294	224.81705	6.99809	0.1072776	0.30671439	2.1776092	20	6 11.6	19.2
245590 2005 UD_{485}	15.8	X	274.45903	224.96676	158.72692	7.46125	0.1413486	0.18410997	3.0602097	20	7 11.0	20.0
245591 2005 UU_{492}	15.1	X	318.70871	31.59436	259.14726	16.43637	0.1853865	0.18018988	3.1044342	20	5 5.8	19.1
245592 2005 US_{500}	15.8	X	180.81738	287.07027	172.59821	10.01594	0.1939613	0.17502166	3.1652512	20	7 5.7	21.3
245593 2005 VL_{15}	15.7	X	262.63275	142.13466	269.62080	3.33534	0.1417774	0.18336614	3.0684800	20	7 31.9	20.0
245594 2005 VD_{17}	15.5	X	244.28969	188.52538	225.65530	15.18734	0.1901732	0.17876039	3.1209623	20	7 5.7	20.6
245595 2005 VW_{27}	15.6	X	318.89990	30.97956	265.94298	2.29856	0.1544012	0.17886359	3.1197617	20	5 20.8	19.5
245596 2005 VN_{72}	15.5	X	184.54773	36.10342	66.69432	12.98686	0.0989704	0.17599482	3.1535723	20	7 16.7	20.5
245597 2005 VM_{78}	15.4	X	320.50729	68.48803	246.90280	8.30869	0.0641362	0.18105391	3.0945496	20	6 27.5	19.5
245598 2005 VW_{82}	15.9	X	238.16876	243.80233	153.50009	3.63058	0.1468610	0.17702044	3.1413797	20	6 16.0	20.7
245599 2005 VG_{110}	17.5	X	357.15720	14.50994	78.81425	1.95875	0.1301262	0.27727124	2.3291609	20	—	—
245600 2005 VD_{124}	14.7	X	4.61894	0.54867	275.38054	21.61301	0.0459116	0.17954677	3.1118428	20	7 9.2	18.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
245601 2005 VF_{124}	17.2	X	36.05931	218.93723	277.67521	6.17797	0.0363340	0.29053619	2.2577155	20	2 8.2	19.8
245602 2005 WR_{1}	14.8	X	159.13910	156.63044	327.56842	26.31177	0.1437386	0.17240131	3.1972432	20	7 24.1	20.2
245603 2005 WP_{2}	15.1	X	170.93399	101.75764	20.62392	25.60385	0.2608014	0.17324183	3.1868934	20	8 5.4	21.2
245604 2005 WU_{7}	16.8	X	88.33136	134.13851	248.43534	4.66115	0.1343004	0.28145807	2.3060050	20	—	—
245605 2005 WG_{28}	16.8	X	130.88775	304.62450	61.38673	7.81360	0.1298382	0.28714727	2.2754445	20	1 13.6	19.7
245606 2005 WK_{32}	16.0	X	293.92957	262.09289	64.59056	5.37981	0.2116409	0.17528552	3.1620740	20	5 14.4	20.2
245607 2005 WE_{36}	15.0	X	138.11712	38.13431	87.71983	9.00606	0.0798375	0.16995003	3.2279135	20	6 24.6	19.8
245608 2005 WP_{36}	15.8	X	238.40608	310.05825	109.97661	2.54473	0.1413418	0.17810004	3.1286721	20	7 15.1	20.5
245609 2005 WF_{39}	15.7	X	297.30539	280.57858	73.56567	6.02984	0.1491113	0.18006110	3.1059141	20	7 3.7	19.6
245610 2005 WN_{43}	15.2	X	268.29832	297.84263	67.75478	15.83512	0.1738628	0.17679982	3.1439925	20	6 5.3	19.8
245611 2005 WP_{43}	16.4	X	61.29869	99.34388	65.07982	8.63545	0.1147505	0.23036699	2.6354567	20	5 15.2	19.5
245612 2005 WK_{71}	15.5	X	235.19566	119.51933	285.33502	3.51508	0.1373535	0.17660220	3.1463375	20	6 23.1	20.2
245613 2005 WS_{71}	17.4	X	80.74695	194.67623	266.08532	5.42358	0.2010017	0.29201470	2.2500884	20	3 21.2	19.8
245614 2005 WR_{81}	15.5	X	270.21352	347.42538	43.99093	3.88147	0.2151631	0.18102585	3.0948693	20	7 5.8	20.0
245615 2005 WW_{98}	17.2	X	284.32615	82.39959	83.68540	4.49475	0.0366752	0.27387508	2.3483764	20	—	—
245616 2005 WU_{115}	16.5	X	157.74389	283.43962	175.69946	8.68891	0.1288289	0.23859749	2.5744955	20	6 16.0	20.6
245617 2005 WZ_{120}	16.9	X	227.80063	316.42024	82.88972	7.87402	0.0899015	0.30881732	2.1677121	20	6 15.0	19.5
245618 2005 WP_{134}	17.5	X	32.81251	324.95238	268.47583	2.60269	0.0678031	0.30321266	2.1943429	20	7 3.9	19.5
245619 2005 WA_{144}	18.3	X	148.07904	205.78016	257.07413	2.83454	0.0895134	0.30429972	2.1891138	20	6 8.8	21.2
245620 2005 WL_{149}	17.4	X	344.84368	11.72650	309.59374	3.24857	0.1353092	0.31850044	2.1235510	20	9 2.7	18.7
245621 2005 WZ_{160}	16.9	X	358.10255	45.53215	32.04272	5.11253	0.1294002	0.27296261	2.3536070	20	—	—
245622 2005 WK_{163}	15.9	X	284.84014	62.88526	296.12887	1.50367	0.0867442	0.17760493	3.1344839	20	7 1.5	20.0
245623 2005 WD_{180}	16.6	X	325.77073	98.58854	44.39784	7.39785	0.1325990	0.27739414	2.3284729	20	—	—
245624 2005 WH_{182}	15.1	X	269.74502	250.65262	92.71035	17.57948	0.1419095	0.17383906	3.1795902	20	5 19.8	19.9
245625 2005 WM_{193}	15.1	X	238.62543	66.63953	9.57389	9.62833	0.0580764	0.18364102	3.0654171	20	8 19.0	19.5
245626 2005 WE_{208}	15.3	X	145.92983	190.06490	277.96796	2.56664	0.0597418	0.16809685	3.2515941	20	6 9.7	20.2
245627 2005 XV_{4}	17.0	X	142.11351	98.22771	263.76743	17.97977	0.0912900	0.35440087	1.9776049	20	1 1.1	19.1
245628 2005 XV_{16}	17.2	X	174.39377	345.43173	81.27432	6.98439	0.0824307	0.30020761	2.2089620	20	5 20.9	20.2
245629 2005 XK_{27}	17.7	X	268.86536	42.27303	291.45956	3.37907	0.0517082	0.29990706	2.2104376	20	5 10.3	20.4
245630 2005 XM_{47}	17.5	X	149.85469	337.66086	48.70569	5.68728	0.1309228	0.29199317	2.2501990	20	3 4.7	20.6
245631 2005 XR_{51}	17.6	X	275.97900	187.56518	316.97028	4.60978	0.0485592	0.26532561	2.3985564	20	—	—
245632 2005 XC_{54}	17.5	X	89.21631	1.22539	59.59690	4.55282	0.1721659	0.28531132	2.2851956	20	2 6.8	19.8
245633 2005 XK_{55}	15.9	X	208.58858	266.40053	190.88562	12.99187	0.1871216	0.17872973	3.1213192	20	7 25.0	21.2
245634 2005 XD_{87}	17.5	X	60.15533	154.65447	340.19647	4.11288	0.0722498	0.29055561	2.2576149	20	3 19.3	19.9
245635 2005 YQ	16.9	X	205.35257	78.46669	278.66184	17.95580	0.0970392	0.36622405	1.9348092	20	3 3.5	19.8
245636 2005 YG_{6}	17.3	X	130.43286	57.13239	97.43056	2.78496	0.0827041	0.30921192	2.1658676	20	7 31.9	19.9
245637 2005 YZ_{8}	17.7	X	201.97075	326.93484	100.99709	2.96016	0.1486075	0.30662694	2.1780232	20	6 20.4	20.6
245638 2005 YK_{14}	15.6	X	201.80526	131.90405	114.45366	8.84509	0.0678228	0.19839826	2.9114599	20	—	—
245639 2005 YS_{20}	15.9	X	197.91999	69.93404	2.40717	0.41257	0.1408826	0.16888830	3.2414277	20	6 19.7	21.2
245640 2005 YA_{30}	17.0	X	144.18289	158.53403	265.96863	6.52506	0.0479265	0.28999986	2.2604984	20	4 3.2	19.9
245641 2005 YC_{49}	16.4	X	188.12185	217.77164	128.11088	5.09748	0.1211921	0.21773173	2.7364546	20	2 26.3	20.7
245642 2005 YZ_{82}	17.1	X	42.33575	43.15695	123.77731	7.29302	0.0279984	0.29147985	2.2528401	20	4 7.6	19.7
245643 2005 YA_{84}	17.6	X	302.65597	86.74866	131.32602	3.82717	0.1033781	0.28070826	2.3101096	20	1 10.4	20.6
245644 2005 YP_{95}	17.2	X	46.67413	229.94023	130.73089	5.63280	0.1270477	0.26471907	2.4022188	20	—	—
245645 2005 YY_{100}	17.1	X	77.63377	271.67182	71.99366	3.06653	0.2316286	0.26770318	2.3843337	20	—	—
245646 2005 YH_{110}	17.4	X	256.46537	295.82550	207.89123	2.45962	0.0626500	0.25983678	2.4322169	20	12 18.4	20.1
245647 2005 YJ_{127}	17.5	X	77.75078	102.07173	51.80978	3.50256	0.1815673	0.29604520	2.2296192	20	6 3.9	19.9
245648 2005 YT_{129}	17.5	X	170.56464	9.18294	72.72180	5.09477	0.0609990	0.30250812	2.1977487	20	6 5.5	20.2
245649 2005 YS_{131}	17.6	X	334.15383	237.16932	294.25668	1.66372	0.1469319	0.27630849	2.3345682	20	—	—
245650 2005 YL_{139}	17.7	X	54.82755	123.08498	83.06437	4.18676	0.1244421	0.30165725	2.2018794	20	7 8.6	20.0
245651 2005 YH_{143}	17.5	X	280.01987	235.81541	330.53856	4.22116	0.1753945	0.27066917	2.3668833	20	—	—
245652 2005 YD_{146}	17.9	X	337.03505	285.00879	26.30403	2.67711	0.2055874	0.30974482	2.1633827	20	7 26.1	18.8
245653 2005 YH_{150}	15.7	X	120.99890	310.03550	311.71355	11.16336	0.2000735	0.18516057	3.0486230	20	11 24.2	21.0
245654 2005 YB_{156}	16.8	X	66.10105	186.47915	291.28533	5.14877	0.1010321	0.28760075	2.2730520	20	3 6.1	19.1
245655 2005 YM_{204}	17.4	X	316.15683	31.54159	128.06510	2.93905	0.1335489	0.27145520	2.3623121	20	—	—
245656 2005 YM_{209}	16.1	X	223.37434	117.10701	64.36508	15.38289	0.0787895	0.26007251	2.4307469	20	12 19.3	19.2
245657 2005 YZ_{212}	17.2	X	329.00313	158.76819	335.75233	7.59457	0.1700105	0.27106199	2.3645961	20	—	—
245658 2005 YC_{215}	17.1	X	106.04493	33.02772	89.63136	5.68284	0.1438019	0.29717329	2.2239731	20	5 23.2	19.8
245659 2005 YH_{257}	17.0	X	27.86660	189.15846	194.20214	5.34053	0.1262368	0.26381778	2.4076869	20	—	—
245660 2005 YB_{279}	16.3	X	28.98413	91.05999	84.14219	11.67945	0.1429040	0.22518626	2.6757249	20	4 14.3	19.3
245661 2005 YX_{280}	17.9	X	138.08940	154.87880	284.37471	2.83033	0.1205455	0.29410369	2.2394209	20	4 26.2	20.9
245662 2006 AV_{1}	17.3	X	278.97821	60.83762	122.36555	12.23465	0.1857206	0.26828083	2.3809099	20	—	—
245663 2006 AC_{17}	16.8	X	129.95055	23.43091	120.39472	3.88457	0.0525396	0.23543756	2.5974800	20	7 8.5	20.5
245664 2006 AU_{31}	17.6	X	55.37900	120.66867	358.63684	6.29027	0.1178533	0.28613471	2.2808095	20	2 25.1	19.6
245665 2006 AE_{64}	17.3	X	356.72977	214.35229	293.36544	8.76944	0.0512141	0.27935233	2.3175788	20	—	—
245666 2006 AO_{64}	15.9	X	107.64723	187.09565	122.69394	7.73984	0.0611290	0.19157504	2.9801864	20	—	—
245667 2006 AR_{82}	15.7	X	141.13517	0.88902	53.35541	13.60367	0.1711679	0.22565006	2.6720571	20	4 10.9	20.0
245668 2006 AQ_{84}	15.5	X	18.05955	136.60740	82.77102	12.49052	0.1259951	0.22359367	2.6884154	20	5 22.7	18.4
245669 2006 BE_{2}	17.8	X	349.67496	173.77244	312.97731	0.57600	0.1368639	0.27231503	2.3573368	20	—	—
245670 2006 BD_{10}	16.6	X	278.38863	36.82765	144.54770	5.36833	0.1898659	0.26625085	2.3929964	20	—	—
245671 2006 BF_{11}	17.6	X	50.05245	115.81978	27.18532	3.27135	0.1194612	0.28514924	2.2860615	20	3 22.1	19.5
245672 2006 BP_{24}	17.0	X	330.55006	195.26766	199.65392	1.39761	0.1690577	0.25580573	2.4577019	20	11 17.3	18.8
245673 2006 BP_{25}	17.3	X	30.53858	328.63458	145.45410	3.43270	0.1412052	0.27775763	2.3264411	20	—	—
245674 2006 BN_{27}	17.9	X	338.48670	206.65773	23.40835	0.64394	0.1541585	0.28739169	2.2741542	20	3 11.9	20.1
245675 2006 BX_{31}	17.0	X	221.90887	232.18277	328.29300	6.27072	0.0654223	0.25902911	2.4372702	20	—	—
245676 2006 BZ_{31}	17.2	X	330.39063	196.40330	348.07939	2.95727	0.1247657	0.27617480	2.3353215	20	—	—
245677 2006 BA_{41}	17.6	X	172.10069	301.63535	136.45961	5.65488	0.1238930	0.29896155	2.2150957	20	6 3.9	20.8
245678 2006 BV_{51}	16.4	X	92.12018	353.43602	119.16574	6.07008	0.0381756	0.21974477	2.7197168	20	4 9.9	20.1
245679 2006 BJ_{82}	16.5	X	303.35321	292.93860	55.80917	3.36485	0.1537976	0.23313431	2.6145598	20	7 8.6	19.5
245680 2006 BL_{84}	17.4	X	336.64010	176.44870	319.27574	6.02137	0.0723699	0.27146238	2.3622704	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
245681 2006 BN_{90}	17.5	X	165.45607	307.58278	129.55387	5.04575	0.1105965	0.29581903	2.2307555	20	5 26.2	20.6
245682 2006 BS_{91}	13.5	X	318.56211	118.87299	160.00403	10.47569	0.0914769	0.08286408	5.2106491	20	5 10.9	20.2
245683 2006 BU_{95}	17.5	X	266.69731	46.57793	167.52329	1.35321	0.1295426	0.26671309	2.3902308	20	—	—
245684 2006 BK_{96}	16.2	X	65.28828	300.85152	159.36497	8.84859	0.2661805	0.21279659	2.7786015	20	3 20.1	19.3
245685 2006 BC_{116}	17.5	X	298.26161	281.33665	285.32110	1.39505	0.1524201	0.27231688	2.3573262	20	—	—
245686 2006 BR_{116}	17.2	X	359.37770	55.43800	168.68938	1.95685	0.1713280	0.28658627	2.2784131	20	4 14.4	18.6
245687 2006 BQ_{129}	17.8	X	14.56755	39.91948	118.01883	0.45168	0.1366265	0.28038398	2.3118904	20	2 3.3	19.6
245688 2006 BP_{131}	16.3	X	43.48948	312.39389	333.55596	12.64373	0.1697766	0.23746918	2.5826440	20	10 8.5	19.8
245689 2006 BD_{133}	17.7	X	358.26828	173.70931	300.43695	3.14138	0.1916705	0.26999422	2.3708263	20	—	—
245690 2006 BT_{133}	17.2	X	229.99551	134.40012	152.59043	3.50580	0.1859708	0.27165547	2.3611509	20	1 16.9	21.0
245691 2006 BV_{148}	16.4	X	115.01027	131.30098	315.34913	4.17110	0.0870346	0.22045153	2.7139008	20	4 7.3	20.3
245692 2006 BB_{158}	17.2	X	235.58726	271.16615	353.21955	4.22939	0.1925850	0.26830542	2.3807644	20	—	—
245693 2006 BC_{165}	17.3	X	204.65011	156.99390	153.54261	3.43944	0.1692389	0.27400813	2.3476161	20	1 23.4	20.9
245694 2006 BQ_{167}	17.1	X	322.50509	300.14112	331.02049	3.47303	0.1356918	0.28970071	2.2620542	20	4 15.9	19.3
245695 2006 BA_{170}	17.1	X	229.88097	214.49973	147.00701	6.73557	0.1411188	0.29056931	2.2575440	20	4 23.7	20.4
245696 2006 BT_{185}	17.0	X	220.49144	117.17014	162.98480	5.06643	0.1255395	0.27256113	2.3559177	20	—	—
245697 2006 BL_{187}	16.9	X	332.51575	63.36377	80.11015	3.44816	0.1270570	0.26898598	2.3767470	20	—	—
245698 2006 BM_{208}	16.7	X	302.41965	217.34220	295.15102	5.83462	0.1824572	0.26494679	2.4008421	20	—	—
245699 2006 BO_{219}	16.3	X	235.39850	3.11196	78.54799	4.79220	0.1176494	0.24064194	2.5598932	20	8 17.9	19.9
245700 2006 BU_{224}	16.5	X	160.15944	182.16965	172.34784	4.53812	0.0814222	0.21002110	2.8030279	20	2 5.3	20.6
245701 2006 BP_{244}	17.0	X	22.49360	301.77163	119.71711	5.17128	0.1256649	0.26697759	2.3886518	20	—	—
245702 2006 BC_{247}	17.6	X	153.00329	332.46186	119.15950	1.85269	0.0716239	0.29574800	2.2311127	20	5 28.9	20.5
245703 2006 BX_{248}	16.9	X	4.63448	201.05631	338.78041	5.96321	0.0418016	0.28212295	2.3023805	20	2 25.1	19.3
245704 2006 BV_{264}	16.9	X	180.74609	305.93467	341.41485	11.63754	0.2009497	0.26260344	2.4151037	20	—	—
245705 2006 BJ_{271}	17.3	X	29.08796	347.31422	125.45520	5.99095	0.1769884	0.27593963	2.3366482	20	—	—
245706 2006 BE_{274}	15.3	X	62.59706	173.42434	118.81861	7.09350	0.0772133	0.17638911	3.1488711	20	10 25.6	19.8
245707 2006 BG_{275}	15.7	X	352.91635	216.48061	161.04666	10.45611	0.0871891	0.17914763	3.1164633	20	11 8.1	19.8
245708 2006 CD_{13}	17.2	X	268.18407	148.05870	143.70527	10.74578	0.1720187	0.28493696	2.2871968	20	2 28.2	20.5
245709 2006 CX_{17}	17.1	X	33.32449	154.02809	131.40761	9.82376	0.2254621	0.30495744	2.1859651	20	10 26.6	19.8
245710 2006 CX_{22}	15.7	X	356.33864	204.26686	355.04708	11.51491	0.0268837	0.21411459	2.7671872	20	3 18.9	19.4
245711 2006 CF_{26}	17.2	X	304.61129	235.36210	343.87890	1.65186	0.1686369	0.27721593	2.3294708	20	1 6.3	20.2
245712 2006 CQ_{33}	15.9	X	64.42332	46.01429	275.82533	3.13050	0.1591270	0.18640928	3.0349931	20	12 11.4	20.4
245713 2006 CY_{33}	17.1	X	128.07813	264.57865	170.67122	4.78941	0.0982288	0.22173011	2.7034578	20	4 12.7	20.9
245714 2006 CM_{44}	17.9	X	339.81249	77.48443	67.70776	2.12370	0.1269801	0.27325529	2.3519260	20	—	—
245715 2006 CL_{49}	17.4	X	355.73985	353.77535	138.63100	1.86984	0.1347832	0.27368866	2.3494426	20	—	—
245716 2006 CQ_{59}	17.8	X	288.41107	43.49849	142.86557	1.91524	0.1230771	0.26649324	2.3915451	20	—	—
245717 2006 CW_{59}	17.7	X	5.44582	282.93492	358.96230	0.93706	0.1498085	0.29740904	2.2227977	20	8 10.5	19.1
245718 2006 CY_{59}	17.4	X	305.53074	44.94625	182.40796	2.26094	0.2010233	0.27709091	2.3301714	20	1 12.9	20.4
245719 2006 CK_{66}	16.9	X	303.73197	51.04119	103.51374	4.66500	0.0828816	0.25637159	2.4540842	20	—	—
245720 2006 DO_{6}	17.4	X	26.30725	11.67897	125.52970	3.25418	0.1332207	0.27660703	2.3328881	20	1 27.2	19.4
245721 2006 DT_{7}	17.3	X	220.76440	246.64719	4.96484	2.32661	0.1452985	0.26188851	2.4194970	20	—	—
245722 2006 DT_{12}	17.8	X	334.08315	165.95016	342.46496	2.09953	0.1254020	0.26942717	2.3741516	20	—	—
245723 2006 DR_{13}	15.6	X	91.95205	212.03903	272.52855	8.41173	0.0337550	0.21956384	2.7212107	20	4 18.3	19.5
245724 2006 DA_{16}	17.8	X	355.15006	32.65114	87.25919	2.72156	0.1828691	0.27109754	2.3643894	20	—	—
245725 2006 DB_{28}	17.9	X	337.24552	96.75980	8.59586	2.83335	0.1660658	0.26300313	2.4126562	20	—	—
245726 2006 DS_{29}	17.6	X	233.15683	63.65309	171.17052	2.77593	0.1395505	0.26196128	2.4190489	20	—	—
245727 2006 DV_{34}	16.8	X	207.17046	283.95072	167.52076	5.09012	0.1526480	0.23548676	2.5971182	20	7 23.5	20.8
245728 2006 DO_{48}	16.9	X	354.59566	112.22706	158.92114	7.02298	0.1687228	0.29379904	2.2409688	20	6 25.5	18.5
245729 2006 DX_{48}	17.7	X	350.86766	123.09746	147.39600	3.42756	0.1630920	0.29157743	2.2523374	20	6 14.8	19.2
245730 2006 DU_{50}	17.6	X	226.76993	222.86750	163.42625	5.32493	0.1652141	0.30250868	2.1977459	20	5 20.5	20.9
245731 2006 DR_{54}	17.0	X	14.01141	147.87587	157.37744	5.20518	0.2149632	0.30125724	2.2038281	20	10 20.2	18.9
245732 2006 DB_{64}	17.4	X	343.03466	18.87318	151.49207	3.00935	0.1149841	0.27438085	2.3454896	20	1 1.1	20.1
245733 2006 DR_{69}	15.5	X	72.84961	158.12406	169.04297	9.25680	0.1440231	0.18165096	3.0877651	20	12 23.6	20.3
245734 2006 DF_{71}	17.8	X	254.67228	77.91741	152.70105	1.66584	0.1327354	0.26631410	2.3926175	20	—	—
245735 2006 DM_{83}	17.6	X	238.26256	305.21485	323.74027	3.49064	0.2289391	0.26759556	2.3849729	20	1 2.2	21.5
245736 2006 DU_{107}	17.5	X	249.34703	76.59873	167.39896	3.06032	0.1612825	0.26584774	2.3954148	20	—	—
245737 2006 DT_{108}	17.1	X	6.29002	205.22897	214.25090	1.96130	0.0851443	0.25746660	2.4471211	20	—	—
245738 2006 DK_{110}	17.3	X	211.40451	93.45022	180.43666	4.49841	0.1484851	0.26307022	2.4122460	20	—	—
245739 2006 DR_{115}	17.3	X	279.03783	263.37814	142.38685	3.33217	0.0379533	0.30541577	2.1837776	20	9 18.9	19.4
245740 2006 DK_{122}	16.3	X	216.35956	229.63969	43.51487	13.39327	0.2022520	0.26422631	2.4052045	20	—	—
245741 2006 DM_{138}	16.6	X	312.84147	247.20506	89.52033	3.91593	0.0643716	0.23061137	2.6335945	20	7 19.0	19.8
245742 2006 DS_{139}	17.1	X	286.12136	273.60080	38.11095	5.01818	0.1594855	0.28791278	2.2714094	20	4 17.4	19.8
245743 2006 DL_{140}	16.9	X	303.95921	107.16327	143.98998	10.13899	0.2051723	0.27765680	2.3270042	20	2 10.8	20.1
245744 2006 DC_{141}	17.3	X	296.88781	182.48764	127.05170	5.91509	0.1998961	0.28853707	2.2681319	20	4 25.2	19.9
245745 2006 DA_{142}	16.0	X	169.96561	250.60455	9.90611	8.41054	0.0703821	0.18688149	3.0298784	20	—	—
245746 2006 DL_{143}	17.7	X	25.55968	140.10852	150.98641	2.64086	0.1712508	0.30283757	2.1961545	20	10 9.6	19.7
245747 2006 DK_{145}	17.5	X	232.17661	144.43452	138.08576	2.87216	0.2257943	0.26976138	2.3721904	20	1 12.9	21.4
245748 2006 DM_{153}	17.2	X	288.58142	155.56648	192.11428	6.48548	0.1614350	0.29462096	2.2367990	20	6 12.9	19.6
245749 2006 DD_{160}	17.2	X	147.04443	8.70920	353.84525	1.73893	0.1349976	0.27407743	2.3472204	20	1 30.5	20.5
245750 2006 DQ_{162}	16.3	X	121.62088	136.02726	174.86568	5.80623	0.1016846	0.18855402	3.0119345	20	—	—
245751 2006 DT_{181}	17.3	X	349.50654	77.73676	111.38164	2.91034	0.0667165	0.27716283	2.3297683	20	2 13.6	19.7
245752 2006 DY_{184}	17.1	X	178.31106	344.39691	348.61283	12.44800	0.2796347	0.26840248	2.3801904	20	2 6.2	21.3
245753 2006 DZ_{184}	17.0	X	308.93164	355.92106	190.05844	4.03396	0.1723278	0.26847973	2.3797338	20	—	—
245754 2006 DC_{187}	17.8	X	6.84158	32.88014	41.81109	2.90713	0.1912255	0.26281392	2.4138140	20	—	—
245755 2006 DK_{193}	16.1	X	35.85980	265.44370	69.09067	28.13067	0.1153245	0.23471493	2.6028086	20	11 28.9	19.3
245756 2006 DM_{207}	17.1	X	297.07466	2.51122	205.67365	4.07023	0.1552622	0.26933782	2.3746767	20	—	—
245757 2006 EF_{5}	17.9	X	312.17435	76.84723	57.04861	2.12338	0.1249082	0.26305065	2.4123656	20	—	—
245758 2006 EJ_{7}	17.4	X	302.45302	230.87774	332.85198	1.81723	0.1605310	0.27044084	2.3682154	20	—	—
245759 2006 EK_{11}	17.2	X	274.07370	176.62049	22.37473	3.35920	0.1288032	0.26405188	2.4062636	20	—	—
245760 2006 ER_{14}	17.7	X	254.08733	292.50656	347.95193	2.10572	0.1891657	0.27270280	2.3551016	20	1 30.6	21.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
245761 2006 EO_{16}	17.6	X	196.01203	270.21616	15.75909	4.78441	0.2209110	0.26114162	2.4241081	20	—	—
245762 2006 EO_{65}	17.5	X	82.07842	156.89630	297.67796	1.60716	0.0482420	0.27681364	2.3317271	20	2 23.4	20.0
245763 2006 EL_{66}	17.3	X	74.55339	334.38425	295.65173	2.50255	0.1314858	0.30565576	2.1826344	20	11 6.3	20.3
245764 2006 FU_{6}	17.1	X	111.48881	318.73333	185.00453	2.96405	0.0461276	0.22152699	2.7051101	20	6 14.0	20.8
245765 2006 FZ_{7}	15.9	X	227.95004	79.05885	132.25551	1.25424	0.1365296	0.18409598	3.0603647	20	—	—
245766 2006 FW_{13}	17.1	X	82.85750	262.18037	178.34914	7.09478	0.0354310	0.27242929	2.3566777	20	2 2.9	19.9
245767 2006 FF_{21}	16.5	X	187.99334	276.57734	13.22946	7.54480	0.1278513	0.26224533	2.4173018	20	—	—
245768 2006 FW_{22}	17.2	X	229.78706	229.62849	44.22789	2.66203	0.1677386	0.26425204	2.4050484	20	1 2.7	20.9
245769 2006 FR_{26}	17.1	X	328.18320	293.97985	158.37958	2.33481	0.1472152	0.25488977	2.4635863	20	—	—
245770 2006 FK_{38}	16.9	X	99.19041	9.18594	21.75587	9.01034	0.0992648	0.26834520	2.3805291	20	1 2.1	19.8
245771 2006 FO_{38}	17.9	X	301.34054	122.03294	18.74422	10.59682	0.2064818	0.26086451	2.4258245	20	—	—
245772 2006 FM_{50}	14.9	X	125.47978	186.64567	98.89252	21.62106	0.1314090	0.17976517	3.1093219	20	12 24.2	19.9
245773 2006 GY_{8}	17.4	X	246.09775	187.16135	91.01549	3.35431	0.1972472	0.26876801	2.3780318	20	1 20.7	21.3
245774 2006 GT_{13}	16.0	X	59.79682	105.51637	72.20551	5.86261	0.0572864	0.21625776	2.7488745	20	5 22.7	19.4
245775 2006 GS_{21}	16.7	X	300.14299	29.03158	195.15489	6.44675	0.0673622	0.27297653	2.3535269	20	1 20.5	19.9
245776 2006 GX_{23}	15.2	X	302.63221	250.61600	194.78210	12.95212	0.0882683	0.17605575	3.1528446	20	11 16.1	19.4
245777 2006 GD_{27}	16.3	X	270.01927	309.05897	51.10628	7.21085	0.0826093	0.21925840	2.7237374	20	6 14.4	20.0
245778 2006 GY_{30}	17.4	X	168.28979	65.40396	183.51380	1.76927	0.1665920	0.24669754	2.5178287	20	12 30.6	21.3
245779 2006 GF_{35}	16.9	X	1.63464	58.12405	175.70284	4.62558	0.1471474	0.28478595	2.2880052	20	5 8.9	18.7
245780 2006 GU_{41}	16.9	X	338.03929	153.62557	97.96737	6.11956	0.1419475	0.28167071	2.3048443	20	4 19.7	19.1
245781 2006 GX_{42}	15.9	X	112.96032	285.42560	355.53802	12.16169	0.2417245	0.24055531	2.5605077	20	12 21.5	20.6
245782 2006 GJ_{45}	17.2	X	210.47239	257.33947	1.36655	2.47009	0.1512322	0.25998383	2.4312997	20	—	—
245783 2006 HP_{1}	16.6	X	87.22617	138.65309	47.36962	6.18490	0.0876168	0.22351979	2.6890078	20	7 16.7	20.3
245784 2006 HL_{3}	17.1	X	187.89753	227.25329	86.74714	4.49486	0.1209368	0.26315898	2.4117035	20	1 12.3	20.5
245785 2006 HS_{6}	16.4	X	358.14641	350.56632	243.32429	6.25640	0.1039668	0.28377203	2.2934520	20	4 30.3	18.6
245786 2006 HQ_{13}	17.2	X	7.36890	45.32662	223.22141	4.57479	0.1418945	0.29209405	2.2496808	20	7 18.9	19.1
245787 2006 HT_{15}	17.5	X	275.97156	206.59291	90.72520	3.28965	0.2121809	0.27501842	2.3418632	20	3 11.7	21.0
245788 2006 HD_{18}	16.8	X	23.28843	55.41309	58.01162	11.41361	0.1962746	0.27040940	2.3683990	20	—	—
245789 2006 HK_{21}	17.4	X	201.45150	155.09642	109.47203	3.50173	0.1742782	0.25605542	2.4561039	20	—	—
245790 2006 HX_{31}	16.5	X	249.74240	351.09914	216.09378	1.92905	0.0676257	0.18922567	3.0048031	20	—	—
245791 2006 HY_{35}	17.9	X	262.64712	298.33506	239.05327	1.27946	0.1484373	0.25780559	2.4449754	20	—	—
245792 2006 HS_{37}	16.9	X	70.39945	112.44727	188.43040	14.11680	0.1292959	0.23744527	2.5828174	20	11 30.7	20.9
245793 2006 HQ_{38}	17.3	X	282.18010	135.24057	163.73026	4.28253	0.1421723	0.27671824	2.3322630	20	3 29.2	20.3
245794 2006 HJ_{39}	16.7	X	74.87208	132.95037	185.60951	5.69609	0.2551144	0.23718000	2.5847429	20	—	—
245795 2006 HA_{50}	17.8	X	13.25630	82.56696	152.02118	2.84000	0.1691343	0.28655289	2.2785900	20	6 7.1	19.4
245796 2006 HM_{53}	16.4	X	69.63304	153.14956	91.82957	6.37731	0.1236248	0.22758763	2.6568698	20	9 19.2	20.1
245797 2006 HX_{59}	15.6	X	258.91540	112.06948	71.59616	16.84717	0.1479761	0.18415175	3.0597468	20	—	—
245798 2006 HJ_{66}	17.7	X	167.89136	159.04751	164.72185	1.32181	0.1860104	0.25786106	2.4446247	20	1 9.7	21.5
245799 2006 HB_{67}	16.6	X	327.70405	276.83671	52.18607	8.31197	0.2132597	0.28929059	2.2641916	20	7 31.3	18.1
245800 2006 HF_{80}	17.2	X	94.25835	149.79833	148.76296	1.09917	0.1469641	0.23929827	2.5694668	20	12 22.4	21.2
245801 2006 HL_{82}	15.5	X	253.60548	213.48839	226.97330	21.31552	0.0478501	0.23104777	2.6302772	20	9 8.7	19.4
245802 2006 HY_{85}	16.8	X	259.14501	144.26058	100.21770	3.70949	0.1168176	0.26483485	2.4015186	20	—	—
245803 2006 HT_{87}	17.2	X	314.06408	80.88532	211.16025	6.89709	0.1177236	0.28551323	2.2841181	20	5 9.2	19.6
245804 2006 HH_{90}	14.8	X	194.57021	346.73332	304.78742	18.21220	0.2108684	0.17754436	3.1351967	20	1 6.9	20.2
245805 2006 HC_{101}	17.9	X	320.70278	107.24265	128.64922	3.10774	0.1849297	0.27343891	2.3508730	20	2 16.9	20.6
245806 2006 HR_{102}	16.5	X	356.23088	317.27448	65.63505	13.69761	0.1634240	0.23641635	2.5903059	20	12 10.8	19.2
245807 2006 HZ_{102}	17.1	X	105.43833	69.64475	216.91446	12.43783	0.1862801	0.23847211	2.5753978	20	12 19.3	21.5
245808 2006 HY_{111}	16.1	X	40.12963	40.42055	251.09025	10.70324	0.1801974	0.22746525	2.6578227	20	10 13.5	19.7
245809 2006 HL_{121}	16.4	X	2.06872	218.61726	150.99573	12.85873	0.2698112	0.23194115	2.6235188	20	12 19.8	19.4
245810 2006 HA_{125}	16.8	X	73.13463	246.88414	53.14250	6.39055	0.2263587	0.23418850	2.6067078	20	12 9.5	20.9
245811 2006 HF_{137}	16.5	X	333.90767	14.85134	82.76547	2.30171	0.1600216	0.18562091	3.0435805	20	—	—
245812 2006 JM	17.1	X	284.20272	230.34436	28.17529	5.36620	0.2166945	0.26944680	2.3740363	20	1 31.2	20.7
245813 2006 JE_{2}	17.4	X	311.29476	340.13395	245.67027	1.38164	0.1579586	0.27120031	2.3637920	20	1 25.1	20.3
245814 2006 JC_{10}	15.1	X	42.85905	353.00926	46.23019	11.47805	0.0860543	0.18075264	3.0979872	20	—	—
245815 2006 JV_{17}	16.7	X	169.88798	5.39839	103.65557	3.29200	0.1671709	0.22278879	2.6948866	20	7 10.4	20.9
245816 2006 JZ_{20}	16.1	X	54.66133	215.62506	193.49379	12.63371	0.2352403	0.25412193	2.4685464	20	—	—
245817 2006 JH_{24}	16.3	X	178.99575	27.06366	41.24047	14.82502	0.0393557	0.21547888	2.7554947	20	5 25.4	20.3
245818 2006 JA_{25}	16.7	X	111.24303	137.41280	150.14534	1.57925	0.0779214	0.24254172	2.5465082	20	12 23.1	20.4
245819 2006 JL_{30}	17.0	X	98.96063	160.53383	114.10431	2.66860	0.1601146	0.23702499	2.5858696	20	11 28.8	21.0
245820 2006 JC_{33}	16.6	X	196.54086	64.11926	94.02436	12.84136	0.0952046	0.23663717	2.5886942	20	10 18.8	20.6
245821 2006 JE_{33}	16.0	X	315.61900	195.28186	151.72358	9.54868	0.1920294	0.21998018	2.7177762	20	7 20.8	18.8
245822 2006 JH_{33}	16.1	X	19.57646	100.71724	112.54364	9.81122	0.1365390	0.21161725	2.7889154	20	5 18.8	19.3
245823 2006 JG_{36}	17.1	X	116.61660	170.26640	122.83750	3.20108	0.1815176	0.24150660	2.5537794	20	—	—
245824 2006 JX_{41}	14.9	X	264.23500	302.98331	270.90384	25.56021	0.1504508	0.17773754	3.1329245	20	—	—
245825 2006 JM_{45}	16.8	X	126.09017	168.35784	113.77011	6.67588	0.0918369	0.24208323	2.5497225	20	—	—
245826 2006 JS_{45}	15.6	X	228.19161	162.75580	144.24616	9.81680	0.0883120	0.18828665	3.0147851	20	2 21.8	20.0
245827 2006 JB_{46}	15.3	X	178.08846	70.86924	238.57933	8.69722	0.0628438	0.17843472	3.1247586	20	1 4.7	20.0
245828 2006 JX_{46}	15.0	X	134.24743	196.61074	97.05152	21.13623	0.2736648	0.23900852	2.5715430	20	—	—
245829 2006 JK_{47}	16.3	X	114.39012	359.61675	218.79532	11.11910	0.1143606	0.23180105	2.6245758	20	9 28.9	20.3
245830 2006 JE_{51}	17.0	X	58.72247	331.41716	92.81683	3.33743	0.1351348	0.26205051	2.4184997	20	—	—
245831 2006 JG_{58}	16.0	X	116.05273	35.30272	125.47870	14.52198	0.1926995	0.22480511	2.6787485	20	7 27.3	20.3
245832 2006 KQ_{2}	16.0	X	226.29320	40.32619	121.54436	15.75787	0.0452353	0.24348985	2.5398933	20	12 3.2	19.6
245833 2006 KA_{3}	17.1	X	267.39128	143.28890	136.50796	5.48755	0.2004886	0.26792399	2.3830234	20	2 10.3	20.8
245834 2006 KD_{13}	16.1	X	71.40891	132.47138	144.22514	12.12179	0.1689313	0.23197304	2.6232783	20	11 7.9	20.2
245835 2006 KP_{15}	16.6	X	336.02256	260.38236	76.66439	6.15404	0.0467722	0.22401917	2.6850102	20	8 28.0	20.0
245836 2006 KL_{22}	16.2	X	64.85821	243.21875	78.89164	16.96381	0.1534913	0.23711425	2.5852207	20	12 21.5	20.0
245837 2006 KT_{23}	17.1	X	324.61981	118.32006	86.72242	3.18644	0.1601541	0.26932843	2.3747319	20	1 15.9	19.8
245838 2006 KB_{25}	16.8	X	311.89238	305.26032	62.38935	5.50989	0.0948143	0.22483310	2.6785261	20	8 29.7	19.9
245839 2006 KS_{29}	16.6	X	18.87164	186.09598	236.73509	6.01143	0.1492415	0.25125432	2.4872934	20	—	—
245840 2006 KX_{31}	17.3	X	198.51369	247.00720	41.65871	2.90438	0.1955937	0.25685703	2.4509912	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
245841 2006 KX_{45}	17.1	X	69.66582	212.80765	93.85394	3.87261	0.1861609	0.23438993	2.6052141	20	12 11.1	21.0
245842 2006 KB_{46}	15.9	X	13.04491	156.83031	208.62571	4.66958	0.2527264	0.23312882	2.6146009	20	12 27.7	19.0
245843 2006 KR_{60}	16.3	X	181.14016	290.50691	148.81204	7.37094	0.0443459	0.21427613	2.7657963	20	6 14.6	20.3
245844 2006 KX_{63}	15.6	X	288.06349	243.31333	213.83320	13.72925	0.2607717	0.17731544	3.1378946	20	10 14.7	19.4
245845 2006 KF_{64}	16.5	X	16.19422	290.80075	181.44319	7.15354	0.0554266	0.26127791	2.4232651	20	—	—
245846 2006 KS_{76}	16.8	X	43.88113	76.34456	219.82884	5.39873	0.1535745	0.22709336	2.6607235	20	10 23.8	20.3
245847 2006 KE_{83}	16.2	X	326.45297	244.65271	44.54432	5.64156	0.0782227	0.21388618	2.7691569	20	5 31.1	19.5
245848 2006 KR_{101}	15.7	X	143.88471	81.95755	252.32979	18.66103	0.1439864	0.17431542	3.1737948	20	1 4.5	20.7
245849 2006 KJ_{108}	17.4	X	0.29145	30.33950	289.42641	1.80599	0.2074675	0.29468382	2.2364809	20	10 9.6	18.9
245850 2006 KG_{112}	17.4	X	204.58591	289.70486	322.77641	1.29700	0.1304857	0.25271419	2.4777052	20	—	—
245851 2006 KH_{118}	15.4	X	74.22840	237.45185	104.55638	31.92239	0.3170485	0.23137266	2.6278144	20	—	—
245852 2006 KV_{123}	16.3	X	72.91224	216.98945	86.35687	13.08816	0.1908260	0.23280567	2.6170198	20	12 10.7	20.3
245853 2006 LB_{2}	15.7	X	17.52329	229.79608	106.06627	12.84805	0.2274437	0.22579591	2.6709064	20	11 23.1	19.0
245854 2006 MM_{8}	16.9	X	100.09756	164.68426	121.03668	15.16384	0.2360304	0.23169743	2.6253582	20	12 17.2	21.5
245855 2006 MG_{11}	16.3	X	61.75673	200.24755	143.89035	14.78549	0.2643678	0.22977832	2.6399559	20	—	—
245856 2006 MX_{12}	16.1	X	114.69787	15.81512	313.03152	13.23131	0.3218907	0.23649680	2.5897184	20	—	—
245857 2006 MA_{13}	15.6	X	56.43902	231.39100	93.33843	15.93425	0.1146873	0.23058265	2.6338132	20	12 11.1	19.3
245858 2006 OG_{9}	16.2	X	209.81686	123.81383	226.11072	4.49499	0.2064116	0.26045764	2.4283502	20	3 15.6	20.3
245859 2006 OD_{10}	15.2	X	118.05695	331.79701	330.76301	32.98388	0.2197773	0.23214717	2.6219664	20	—	—
245860 2006 OB_{14}	16.0	X	67.24175	175.52333	146.09743	13.36851	0.1677501	0.22824067	2.6517995	20	12 24.2	20.2
245861 2006 OD_{15}	15.6	X	268.09297	340.94751	359.22745	9.02756	0.2099839	0.19948261	2.9008996	20	4 26.9	20.1
245862 2006 OM_{17}	15.5	X	346.15139	319.87199	339.26942	20.25448	0.1127868	0.21074900	2.7965700	20	7 23.5	19.0
245863 2006 PJ_{8}	16.2	X	34.17916	235.64065	69.02813	5.22922	0.1938639	0.22030382	2.7151138	20	10 28.5	19.6
245864 2006 PQ_{15}	17.1	X	125.04014	233.61743	106.65936	4.18497	0.1458830	0.24121338	2.5558486	20	—	—
245865 2006 PR_{15}	16.1	X	340.70973	231.81446	119.33732	8.50007	0.2131177	0.21366748	2.7710462	20	9 26.6	18.7
245866 2006 PT_{17}	16.1	X	104.73408	306.57281	323.32278	9.86974	0.2955851	0.22739701	2.6583545	20	12 1.5	21.0
245867 2006 PF_{20}	15.7	X	179.63692	243.42203	53.91928	10.59361	0.1908231	0.17529353	3.1619776	20	—	—
245868 2006 PJ_{21}	15.0	X	212.23053	331.87103	323.90936	26.87835	0.1252342	0.18127932	3.0919838	20	1 28.8	20.1
245869 2006 PD_{22}	15.5	X	198.79025	231.86864	97.27235	3.47741	0.0725372	0.18301337	3.0724218	20	2 19.8	20.2
245870 2006 PQ_{28}	15.4	X	143.85700	264.16930	86.08559	26.09848	0.2128824	0.17393843	3.1783790	20	2 3.4	20.9
245871 2006 PW_{31}	16.3	X	84.00752	264.52966	100.58371	13.01378	0.3109226	0.23535596	2.5980804	20	—	—
245872 2006 PD_{32}	15.2	X	47.15849	326.31140	134.56957	12.08929	0.0662577	0.17853133	3.1236312	20	1 30.4	19.4
245873 2006 PW_{32}	15.9	X	121.01204	243.36422	72.43459	13.36185	0.1794809	0.23577611	2.5949930	20	—	—
245874 2006 PP_{34}	16.1	X	225.91328	333.47367	314.88482	12.41324	0.2190368	0.25702188	2.4499430	20	1 18.1	20.3
245875 2006 PY_{34}	15.1	X	82.06562	161.08876	284.03707	11.94000	0.0783078	0.18427982	3.0583289	20	2 22.6	19.4
245876 2006 PG_{43}	15.3	X	131.91798	287.67149	73.95231	26.41436	0.0902431	0.17317271	3.1877414	20	1 22.7	20.3
245877 2006 QU	15.3	X	100.34050	97.92712	261.07120	17.28156	0.1000098	0.16802338	3.2525419	20	—	—
245878 2006 QU_{8}	16.4	X	42.48453	127.91311	194.30866	1.08953	0.2207464	0.22117919	2.7079452	20	12 3.1	20.1
245879 2006 QL_{17}	15.6	X	305.83580	313.99449	352.52528	5.74031	0.0631701	0.20011821	2.8947539	20	5 24.8	19.5
245880 2006 QM_{19}	15.2	X	1.22805	257.29916	131.96190	10.78044	0.1044338	0.15206716	3.4762613	20	11 28.8	19.8
245881 2006 QU_{32}	16.1	X	314.37184	163.42842	167.76078	13.85158	0.1955768	0.20465092	2.8518516	20	6 24.4	19.6
245882 2006 QJ_{36}	15.6	X	170.44238	89.08811	263.01451	15.09842	0.1233097	0.18008557	3.1056329	20	2 13.0	20.8
245883 2006 QK_{38}	15.5	X	199.03716	114.19333	174.66946	10.35232	0.1950039	0.17692282	3.1425352	20	1 4.5	20.9
245884 2006 QC_{45}	16.1	X	158.89482	4.19795	156.61845	12.26197	0.0078312	0.21282857	2.7783232	20	9 2.3	19.8
245885 2006 QO_{50}	15.8	X	279.83763	157.69269	139.87997	11.70886	0.1928772	0.19269035	2.9686756	20	3 26.9	20.3
245886 2006 QF_{52}	15.5	X	250.86029	325.57416	10.73973	10.66370	0.1360605	0.19406472	2.9546429	20	4 13.9	20.0
245887 2006 QY_{53}	16.1	X	32.89014	264.13290	57.66217	9.66310	0.1883708	0.22059902	2.7126910	20	11 15.9	19.6
245888 2006 QO_{56}	16.2	X	93.26418	27.51867	290.40069	2.92890	0.2246068	0.23020048	2.6367274	20	—	—
245889 2006 QH_{57}	15.6	X	285.16091	33.04081	164.06437	17.95463	0.0762581	0.17331120	3.1860430	20	—	—
245890 Krynychenka	15.2	X	144.46565	190.73529	176.26129	19.78467	0.2723271	0.17596489	3.1539299	20	2 22.1	20.6
245891 2006 QA_{60}	15.5	X	164.04752	180.63452	183.59735	16.50809	0.2310841	0.17896814	3.1185466	20	3 2.3	20.9
245892 2006 QO_{63}	15.1	X	152.48519	158.76448	179.97355	25.36686	0.2066258	0.17280900	3.1922126	20	1 22.8	20.7
245893 2006 QA_{76}	15.9	X	275.57021	225.76439	347.81356	8.87986	0.0264683	0.17390604	3.1787736	20	1 2.5	20.5
245894 2006 QH_{77}	16.0	X	263.18478	157.03257	164.67598	11.53037	0.0952278	0.19486948	2.9465026	20	4 18.7	20.4
245895 2006 QJ_{77}	16.1	X	333.68605	116.37682	225.38484	3.54463	0.0782614	0.21174659	2.7877796	20	8 23.6	19.5
245896 2006 QV_{78}	16.3	X	59.23504	232.21289	145.87052	12.72856	0.2159265	0.23116021	2.6294243	20	—	—
245897 2006 QM_{80}	16.5	X	89.25062	126.69377	144.58997	13.20567	0.2077813	0.22432844	2.6825418	20	11 20.6	21.1
245898 2006 QB_{83}	15.3	X	182.13125	357.68391	322.47461	8.27571	0.0228995	0.17682195	3.1437302	20	1 21.9	19.9
245899 2006 QN_{84}	15.6	X	209.45994	168.45598	154.47997	13.40627	0.0522253	0.18301679	3.0723835	20	2 22.7	20.0
245900 2006 QX_{91}	16.0	X	196.93494	38.28853	286.90615	7.94405	0.1397700	0.18292092	3.0734569	20	2 10.4	21.1
245901 2006 QH_{98}	16.0	X	332.28600	166.81440	174.64189	14.25591	0.2010677	0.21018965	2.8015293	20	8 14.2	18.8
245902 2006 QS_{98}	16.0	X	111.12850	200.46084	104.12157	15.51963	0.2674143	0.23271060	2.6177325	20	—	—
245903 2006 QH_{106}	16.6	X	268.41809	100.84665	182.92570	6.59856	0.2280209	0.26167696	2.4208008	20	2 12.7	20.4
245904 2006 QO_{110}	15.8	X	171.62159	285.52015	103.18633	5.24778	0.1523798	0.18286750	3.0740554	20	4 6.9	20.8
245905 2006 QQ_{110}	16.3	X	99.14471	178.22455	145.26054	8.12642	0.2270652	0.23129133	2.6284304	20	—	—
245906 2006 QT_{113}	15.6	X	99.33959	281.79485	351.67636	17.50701	0.1830094	0.22432229	2.6825908	20	11 21.2	20.3
245907 2006 QY_{114}	15.2	X	183.91750	19.24838	302.59136	16.47652	0.1075352	0.17690455	3.1427515	20	1 27.4	20.1
245908 2006 QD_{115}	16.1	X	135.27286	27.72252	265.68706	10.80136	0.1645566	0.23538593	2.5978599	20	—	—
245909 2006 QL_{131}	15.9	X	354.99698	76.79322	243.83694	7.82815	0.0457666	0.21199461	2.7856048	20	8 25.2	19.6
245910 2006 QV_{135}	16.3	X	272.81217	44.90769	306.50276	2.02582	0.0760490	0.20000065	2.8958881	20	6 7.4	20.3
245911 2006 QJ_{138}	15.3	X	141.01076	352.26200	329.02776	9.74376	0.0678622	0.16867616	3.2441449	20	—	—
245912 2006 QL_{141}	16.7	X	67.81234	77.13450	308.59848	11.96209	0.1825526	0.23478792	2.6022692	20	—	—
245913 2006 QR_{146}	17.0	X	131.91347	268.95919	359.12564	1.75724	0.1686656	0.23011304	2.6373953	20	12 18.6	21.2
245914 2006 QY_{161}	16.8	X	153.38348	121.52003	298.70692	4.03041	0.0904084	0.25850505	2.4405630	20	4 16.1	20.3
245915 2006 QB_{162}	15.9	X	261.23154	248.81323	97.62457	3.11744	0.1178105	0.19479225	2.9472814	20	5 12.6	20.1
245916 2006 QQ_{165}	16.1	X	261.42734	185.82098	284.48695	3.78046	0.0694814	0.21905400	2.7254314	20	10 29.5	19.6
245917 2006 QS_{171}	15.6	X	15.20748	0.81913	146.27618	7.01410	0.0836191	0.17904570	3.1176459	20	2 11.2	19.3
245918 2006 QF_{185}	15.4	X	45.79567	313.70023	176.51907	10.32761	0.0861410	0.17769087	3.1334731	20	3 6.0	19.4
245919 2006 RX_{2}	16.3	X	67.58404	162.49740	173.01222	6.31353	0.1412821	0.22643481	2.6658800	20	—	—
245920 2006 RG_{4}	15.4	X	196.41758	172.64984	181.03698	10.08264	0.1143641	0.18210362	3.0826461	20	3 15.8	20.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
245921 2006 RT_8	16.0	X	173.24303	132.12445	188.55812	10.87630	0.1995102	0.17443290	3.1723696	20	1 19.3	21.5
245922 2006 RY_{11}	16.1	X	168.14410	128.55766	217.73703	0.14671	0.1825142	0.17626931	3.1502976	20	2 13.9	21.2
245923 2006 RU_{12}	16.2	X	94.54892	72.32229	259.71817	7.07412	0.0319367	0.23416971	2.6068471	20	—	—
245924 2006 RJ_{13}	15.7	X	165.19649	54.86104	266.16005	9.02509	0.1987086	0.17520352	3.1630605	20	1 13.9	20.9
245925 2006 RT_{15}	15.0	X	197.83419	337.25932	321.53007	17.38536	0.1229763	0.17455303	3.1709139	20	1 17.9	20.2
245926 2006 RU_{18}	15.2	X	137.95473	186.09896	217.81941	14.99026	0.2797731	0.17587484	3.1550063	20	3 30.1	20.7
245927 2006 RG_{19}	16.2	X	36.91775	197.55053	184.57062	6.27726	0.1957389	0.22442618	2.6817628	20	—	—
245928 2006 RG_{20}	15.2	X	244.94494	51.08682	229.38821	11.48759	0.0701740	0.18035316	3.1025602	20	2 5.3	20.1
245929 2006 RV_{21}	15.4	X	236.53517	51.09030	290.45574	16.54454	0.2997790	0.19008682	2.9957211	20	3 18.9	21.1
245930 2006 RZ_{21}	14.8	X	236.58981	44.51095	273.31361	18.11697	0.1915924	0.18612176	3.0381178	20	2 26.7	20.2
245931 2006 RW_{30}	15.2	X	164.16241	35.77458	304.00446	8.31050	0.0773268	0.17390809	3.1787487	20	1 27.9	20.0
245932 2006 RP_{34}	15.5	X	130.70895	31.59697	321.04107	9.28395	0.1033908	0.17120862	3.2120746	20	1 12.4	20.2
245933 2006 RF_{47}	16.3	X	218.84869	212.05704	115.84220	2.15336	0.1760295	0.18219193	3.0816499	20	3 5.5	21.3
245934 2006 RT_{51}	16.6	X	313.81932	252.51996	138.60997	0.89954	0.0798329	0.20925465	2.8098684	20	9 30.3	19.9
245935 2006 RY_{53}	16.0	X	275.93034	236.01647	59.14623	3.49433	0.0353425	0.18350093	3.0669772	20	4 8.0	20.3
245936 2006 RG_{64}	15.7	X	187.19693	149.06382	168.35872	15.32473	0.1299942	0.17618353	3.1513200	20	1 24.9	20.9
245937 2006 RS_{65}	15.4	X	197.11024	340.27817	4.92247	11.66496	0.0797015	0.18163763	3.0879161	20	3 9.2	20.1
245938 2006 RB_{73}	16.5	X	22.57301	318.74967	38.35991	1.14861	0.0918400	0.21936541	2.7228515	20	12 2.1	19.9
245939 2006 RR_{78}	15.5	X	125.75544	195.09036	177.12454	11.33532	0.1374101	0.17064611	3.2191295	20	1 30.7	20.5
245940 2006 RM_{79}	16.0	X	228.33398	213.67605	136.65115	2.51680	0.0513719	0.18731719	3.0251782	20	4 17.7	20.4
245941 2006 RL_{83}	16.2	X	322.40510	50.97598	215.72334	1.65913	0.1272398	0.19117439	2.9843487	20	4 19.3	20.0
245942 2006 RS_{104}	15.9	X	264.22838	198.42090	114.25736	9.15334	0.1148325	0.18560758	3.0437262	20	4 8.3	20.5
245943 Davidjoseph	16.1	X	326.98737	191.72432	20.14128	1.37879	0.1502347	0.17871630	3.1214756	20	2 14.6	20.0
245944 2006 SH_2	16.2	X	106.12934	73.37399	264.48431	11.86788	0.1640302	0.23460105	2.6036508	20	—	—
245945 2006 SX_{12}	15.6	X	140.36449	223.40311	205.63023	10.78292	0.0270826	0.19056968	2.9906587	20	4 11.9	19.7
245946 2006 SF_{16}	15.7	X	192.66820	24.26327	358.22866	8.86719	0.1485621	0.18443947	3.0565638	20	4 13.2	20.7
245947 2006 SK_{16}	15.2	X	110.41425	213.36974	209.07088	8.96446	0.0889206	0.17526536	3.1623164	20	3 6.0	19.8
245948 2006 SJ_{19}	14.7	X	163.56733	121.70129	238.30679	25.10573	0.2972770	0.17687460	3.1431063	20	2 20.9	20.8
245949 2006 SG_{21}	16.3	X	19.83133	204.48239	158.23290	6.32361	0.0433269	0.22157419	2.7047260	20	11 30.7	19.9
245950 2006 SD_{26}	16.4	X	7.32827	92.90403	260.52541	5.89489	0.1495207	0.21609934	2.7502178	20	11 11.1	19.6
245951 2006 SO_{26}	16.4	X	255.78613	143.44492	155.16423	3.74849	0.2183291	0.18857551	3.0117056	20	2 28.1	21.3
245952 2006 SO_{27}	15.6	X	177.72888	2.16129	289.64134	19.50349	0.2421387	0.24309263	2.5426594	20	—	—
245953 2006 SS_{36}	15.7	X	138.25051	2.72961	342.35630	14.03397	0.3107912	0.23973904	2.5663164	20	1 26.0	20.0
245954 2006 SR_{42}	15.3	X	191.16280	205.04165	129.47775	10.23487	0.1476063	0.17499483	3.1655747	20	2 20.2	20.5
245955 2006 SA_{46}	16.1	X	29.99950	141.92046	219.17223	11.26107	0.1563075	0.22004800	2.7172177	20	12 25.8	19.9
245956 2006 SW_{46}	15.2	X	235.73131	329.45556	307.26500	6.01965	0.0966094	0.17720493	3.1391990	20	1 25.4	19.9
245957 2006 SX_{48}	16.6	X	347.68635	310.83021	88.66940	1.13947	0.1822220	0.21878965	2.7276263	20	12 15.8	19.5
245958 2006 SR_{51}	16.4	X	40.63066	265.88755	113.85480	12.22891	0.2058260	0.22666966	2.6640382	20	—	—
245959 2006 SY_{55}	15.7	X	77.85129	147.53221	217.62065	13.14270	0.2732297	0.22934172	2.6433054	20	—	—
245960 2006 SF_{57}	15.1	X	151.45008	133.12079	224.91183	12.02413	0.1473321	0.17446041	3.1720361	20	2 6.6	20.3
245961 2006 SD_{58}	15.1	X	223.67702	189.33170	149.09811	14.00751	0.3434559	0.18507212	3.0495942	20	3 16.4	20.8
245962 2006 SE_{59}	14.9	X	40.31425	146.49763	315.77243	11.86243	0.1030263	0.17002734	3.2269349	20	1 27.3	18.9
245963 2006 SH_{65}	16.4	X	27.79313	123.05034	184.84372	7.07929	0.1169808	0.21404384	2.7677970	20	10 9.4	19.7
245964 2006 SC_{75}	15.9	X	284.84331	256.00922	55.54548	4.61966	0.1316861	0.19015011	2.9950563	20	4 25.1	20.0
245965 2006 SU_{79}	15.3	X	203.44204	25.20096	278.03219	13.08203	0.1447193	0.17385420	3.1794055	20	1 22.9	20.5
245966 2006 SL_{84}	16.1	X	233.95158	254.01547	19.57454	4.75974	0.1403480	0.17475062	3.1685233	20	1 19.1	21.2
245967 2006 SC_{88}	15.8	X	225.52383	208.94533	56.69694	2.90207	0.1070569	0.16870163	3.2438184	20	1 3.7	20.8
245968 2006 SE_{90}	16.1	X	200.39882	332.38955	349.75557	1.51463	0.0840904	0.17392444	3.1785495	20	2 13.3	20.9
245969 2006 SL_{95}	15.8	X	226.61458	260.23083	45.91136	1.08792	0.1630457	0.17775328	3.1327396	20	2 16.7	20.9
245970 2006 SZ_{98}	16.0	X	216.45774	262.10653	35.91407	1.51317	0.1985326	0.17556628	3.1587019	20	1 29.4	21.4
245971 2006 SX_{107}	15.0	X	188.26552	181.86686	158.54023	20.72072	0.1105679	0.17820723	3.1274173	20	2 21.9	19.8
245972 2006 SR_{111}	14.8	X	146.39894	274.78849	126.23768	16.78449	0.2154764	0.17788165	3.1312323	20	4 6.9	20.2
245973 2006 ST_{112}	16.3	X	215.90583	192.44453	177.00274	9.41680	0.1040891	0.18965555	3.0002608	20	4 24.9	20.9
245974 2006 SU_{115}	15.4	X	260.32340	279.95660	77.23207	15.11197	0.1774699	0.19359603	2.9594096	20	5 19.2	19.9
245975 2006 SL_{124}	15.4	X	258.24121	241.62366	116.02032	10.40892	0.1323898	0.19278087	2.9677462	20	5 23.5	19.9
245976 2006 SH_{126}	15.5	X	224.99009	197.26152	165.54760	7.28628	0.1000422	0.18783629	3.0196020	20	4 26.6	20.1
245977 2006 SV_{128}	15.4	X	349.00622	129.57763	261.64446	11.44095	0.1588799	0.21699726	2.7426258	20	12 3.3	18.4
245978 2006 SY_{131}	16.4	X	62.46851	152.77925	204.54224	11.64083	0.2001824	0.22755886	2.6570938	20	—	—
245979 2006 SX_{134}	15.4	X	72.95395	355.87763	267.70574	14.13483	0.2038337	0.21910694	2.7249924	20	10 17.0	19.8
245980 2006 SD_{154}	16.7	X	127.73211	145.11988	195.77510	4.59829	0.2668661	0.23686289	2.5870493	20	1 2.9	20.5
245981 2006 SN_{155}	16.2	X	188.43519	287.25536	66.39596	12.52912	0.1782269	0.25243285	2.4795458	20	3 11.1	20.5
245982 2006 SW_{166}	16.1	X	114.65508	352.70370	300.28542	2.73414	0.0797618	0.22638714	2.6662541	20	12 29.9	20.0
245983 Machholz	15.1	X	110.21056	230.37978	211.29503	23.10104	0.1069189	0.17811173	3.1285351	20	3 31.8	19.9
245984 2006 SX_{209}	16.8	X	253.72352	142.27732	144.01445	1.45089	0.2517010	0.18436539	3.0573826	20	2 10.0	22.0
245985 2006 SA_{213}	16.0	X	74.84237	189.86229	143.50557	11.75732	0.2152916	0.22419821	2.6835804	20	—	—
245986 2006 SU_{214}	15.5	X	236.39992	204.39002	131.69055	5.77086	0.0900596	0.18641602	3.0349199	20	4 7.2	20.1
245987 2006 SY_{223}	15.6	X	205.49419	302.03691	38.03103	7.94810	0.0984586	0.17672127	3.1449241	20	3 12.8	20.5
245988 2006 SM_{228}	15.9	X	30.00312	22.56867	296.44364	4.11022	0.0236429	0.21287607	2.7779099	20	10 11.1	19.6
245989 2006 SG_{255}	15.7	X	191.85903	312.83183	31.70779	12.22021	0.1136138	0.17932851	3.1143673	20	3 6.8	20.7
245990 2006 SF_{270}	15.6	X	85.06804	220.95536	222.76861	9.45726	0.0643686	0.18078931	3.0975683	20	2 24.8	20.0
245991 2006 SK_{274}	15.3	X	161.98220	143.55123	180.62231	12.87477	0.1177767	0.16829383	3.2490564	20	1 10.2	20.6
245992 2006 SL_{278}	15.5	X	207.98615	116.56582	218.61845	21.84299	0.2438339	0.18210246	3.0826592	20	2 25.8	21.3
245993 2006 SZ_{279}	16.2	X	126.79127	234.92034	143.63784	15.14726	0.1844486	0.23971771	2.5664687	20	2 7.1	19.9
245994 2006 SS_{281}	15.6	X	129.53537	251.83984	173.31210	15.56412	0.1127556	0.17908971	3.1171351	20	4 6.7	20.3
245995 2006 SN_{301}	16.2	X	101.08849	288.37488	108.66560	12.94612	0.1968620	0.23867719	2.5739224	20	2 3.4	19.5
245996 2006 SH_{303}	15.8	X	251.74852	85.34252	202.66994	8.94328	0.0919547	0.18201565	3.0836392	20	2 20.9	20.6
245997 2006 SX_{306}	16.9	X	185.71410	57.32203	234.42154	5.55656	0.1173128	0.23989252	2.5652217	20	—	—
245998 2006 SL_{308}	15.6	X	314.67197	245.69059	357.32325	8.55724	0.3007905	0.18575450	3.0421210	20	2 14.7	19.7
245999 2006 SA_{319}	15.8	X	286.79078	106.74653	175.68026	10.08390	0.0820761	0.18431229	3.0579698	20	3 29.6	20.1
246000 2006 SC_{334}	16.0	X	72.75327	98.50346	128.34902	2.89611	0.0190534	0.20120902	2.8842822	20	8 8.2	20.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
246001 2006 SM_{349}	15.7	X	144.66231	202.91432	182.06907	5.13282	0.1756783	0.17429245	3.1740737	20	3 8.4	20.8
246002 2006 SV_{361}	15.8	X	112.77126	287.40482	196.74484	8.16179	0.1136916	0.18125803	3.0922259	20	5 30.0	20.5
246003 2006 SL_{367}	16.0	X	83.80478	254.09108	88.74100	16.12449	0.2418178	0.22827429	2.6515392	20	—	—
246004 2006 TO_{12}	15.6	X	144.94380	216.36222	177.63930	10.90334	0.0585403	0.17745091	3.1362973	20	3 8.9	20.3
246005 2006 TS_{12}	16.1	X	162.60038	33.88380	243.37510	12.99368	0.2303256	0.23508888	2.6000478	20	—	—
246006 2006 TT_{13}	16.1	X	30.55485	174.23609	129.58293	5.30043	0.0939297	0.20982985	2.8047309	20	10 5.8	19.7
246007 2006 TO_{14}	16.0	X	125.41551	352.55252	289.68366	6.64336	0.1559076	0.22863694	2.6487346	20	12 29.5	20.2
246008 2006 TL_{15}	15.5	X	223.90469	158.98009	210.49319	9.08005	0.1528972	0.18759293	3.0222130	20	4 28.4	20.4
246009 2006 TF_{17}	16.4	X	246.60576	150.11637	197.87050	6.86627	0.1221271	0.18766868	3.0213997	20	4 27.9	21.0
246010 2006 TD_{20}	15.6	X	215.31057	291.96775	13.65953	5.32844	0.1687693	0.17431698	3.1737759	20	2 8.1	20.9
246011 2006 TO_{51}	16.4	X	100.78633	187.33284	188.77578	4.16841	0.1481328	0.23286716	2.6165592	20	—	—
246012 2006 TU_{63}	15.7	X	159.45030	297.68738	82.83266	12.46968	0.1229710	0.17601736	3.1533031	20	3 20.1	20.8
246013 2006 TB_{67}	15.7	X	326.80894	36.45623	287.44421	7.82257	0.0942529	0.20052739	2.8908147	20	7 17.5	19.2
246014 2006 TN_{68}	16.4	X	355.99286	185.59597	170.78788	3.99126	0.1097071	0.21243284	2.7817725	20	10 23.9	19.6
246015 2006 TA_{71}	15.7	X	258.65790	268.87177	54.29764	9.13471	0.0895381	0.18589025	3.0406398	20	4 16.1	20.1
246016 2006 TT_{73}	16.0	X	212.84305	220.99642	118.21246	2.27833	0.2023859	0.17988162	3.1079798	20	3 13.1	21.1
246017 2006 TB_{78}	15.1	X	173.78100	207.81564	136.23487	12.64910	0.0705357	0.17271544	3.1933654	20	2 12.0	19.8
246018 2006 TA_{79}	15.5	X	134.05921	117.36391	225.49624	6.97689	0.0686122	0.15968104	3.3648612	20	—	—
246019 2006 TX_{92}	15.2	X	84.53579	313.57490	34.13662	15.01196	0.1490853	0.15614725	3.4154386	20	—	—
246020 2006 TU_{109}	15.6	X	321.80599	216.99403	143.41919	13.36792	0.0523236	0.20348078	2.8627743	20	9 2.9	19.2
246021 2006 TS_{117}	15.3	X	226.06249	204.99845	112.75089	11.40395	0.0745283	0.17632700	3.1496104	20	3 8.7	20.2
246022 2006 UN_{2}	15.7	X	237.68720	94.46275	276.01092	7.04615	0.1563663	0.19236258	2.9720469	20	5 10.8	20.5
246023 2006 UU_{13}	15.9	X	359.90734	229.09256	60.24026	7.72734	0.1992525	0.19861075	2.9093829	20	8 2.2	18.8
246024 2006 UJ_{43}	15.7	X	145.25543	305.15170	42.31421	14.68305	0.1319481	0.23809157	2.5781412	20	1 16.4	19.7
246025 2006 UE_{54}	15.5	X	186.36023	7.03457	307.40210	4.19329	0.1592184	0.17140204	3.2096577	20	1 23.9	20.6
246026 2006 UF_{54}	15.9	X	255.37883	125.88048	215.27764	20.78264	0.2925567	0.19142601	2.9817330	20	4 9.6	21.1
246027 2006 UF_{56}	15.6	X	14.99623	274.06743	263.56206	6.00842	0.0537035	0.18370839	3.0646677	20	3 16.8	19.7
246028 2006 UJ_{67}	16.7	X	168.23870	283.60287	50.91718	15.47318	0.1933295	0.24366671	2.5386642	20	1 29.6	21.1
246029 2006 UB_{71}	15.7	X	57.40426	160.48451	195.09624	12.35662	0.2403759	0.22245208	2.6976053	20	—	—
246030 2006 UB_{75}	16.5	X	97.11659	101.58715	186.23182	5.09289	0.2597530	0.22472654	2.6793728	20	12 16.1	21.2
246031 2006 UW_{76}	15.9	X	193.45718	14.07163	336.29039	4.80485	0.1310395	0.17747509	3.1360124	20	3 9.3	21.0
246032 2006 UT_{89}	16.4	X	104.27456	7.73341	359.55527	1.93366	0.1799626	0.23286394	2.6165832	20	—	—
246033 2006 UV_{89}	16.2	X	86.52684	145.22764	255.27278	3.31038	0.1374941	0.23391609	2.6087311	20	1 8.1	19.2
246034 2006 UT_{95}	16.1	X	256.30271	106.75817	195.58367	10.46376	0.0689547	0.17924760	3.1153044	20	3 17.9	20.7
246035 2006 UA_{115}	16.0	X	283.21499	188.26632	54.18659	1.43194	0.1122944	0.17436171	3.1732331	20	2 2.7	20.5
246036 2006 UL_{137}	15.6	X	26.50017	211.07087	243.37570	12.12768	0.1396791	0.23038507	2.6353188	20	—	—
246037 2006 UB_{150}	15.8	X	156.76640	257.10224	117.17328	16.21061	0.1427933	0.17281734	3.1921099	20	3 9.9	21.0
246038 2006 UD_{150}	15.4	X	194.39998	254.86593	112.91522	16.68639	0.2433324	0.17991272	3.1076217	20	4 6.8	21.1
246039 2006 US_{175}	15.2	X	64.95553	207.13901	40.91792	15.95202	0.0995531	0.20627885	2.8368274	20	9 16.1	19.4
246040 2006 UN_{176}	15.9	X	206.95117	173.26330	166.29933	11.31351	0.1049289	0.17942148	3.1132913	20	3 10.2	20.8
246041 2006 UF_{187}	15.9	X	195.29363	357.85014	262.79177	13.57005	0.0617582	0.23370442	2.6103061	20	—	—
246042 2006 UD_{189}	15.5	X	186.68227	296.01726	5.62730	26.53229	0.2177293	0.17006277	3.2264867	20	1 19.5	21.4
246043 2006 UO_{190}	15.5	X	180.93325	178.49414	282.85212	10.31453	0.0930696	0.19260136	2.9695900	20	7 10.5	19.9
246044 2006 UG_{193}	15.8	X	170.71934	327.96230	1.05513	9.08648	0.0698884	0.17427756	3.1742545	20	1 24.4	20.7
246045 2006 UU_{198}	15.9	X	114.19276	80.71239	292.54235	3.30778	0.2622900	0.23626783	2.5913913	20	1 28.2	19.5
246046 2006 US_{209}	16.1	X	110.74637	4.81951	23.24998	12.58526	0.1860085	0.23770053	2.5809680	20	2 6.8	19.8
246047 2006 UC_{221}	15.3	X	255.99057	262.62192	14.54419	15.67295	0.0532528	0.17465212	3.1697145	20	2 26.3	20.1
246048 2006 UT_{230}	15.8	X	187.06662	161.28466	217.18381	5.79866	0.1473810	0.18219616	3.0816022	20	4 4.9	20.8
246049 2006 UR_{231}	15.8	X	176.45874	234.18919	94.37977	6.22481	0.1721439	0.17277384	3.1926457	20	2 1.8	21.0
246050 2006 UM_{236}	15.8	X	192.99617	275.56196	51.48630	1.45475	0.1615731	0.17450402	3.1715076	20	2 12.8	20.9
246051 2006 UN_{237}	16.6	X	250.30998	167.11908	59.36907	5.76344	0.1742024	0.23536111	2.5980425	20	—	—
246052 2006 UB_{253}	14.7	X	70.45949	122.20997	214.23608	9.20872	0.1058002	0.14909928	3.5222405	20	12 20.2	19.9
246053 2006 UA_{338}	15.5	X	323.33333	46.58149	285.46377	8.69179	0.0951814	0.18596863	3.0397854	20	7 21.4	19.2
246054 2006 UX_{338}	15.7	X	219.04366	269.55168	78.91760	11.71460	0.1717512	0.17890883	3.1192357	20	4 4.0	21.0
246055 2006 VP_{6}	15.5	X	275.18400	268.73186	63.13579	7.36208	0.1873303	0.18871338	3.0102386	20	5 1.9	19.8
246056 2006 VM_{9}	15.9	X	222.45252	273.96885	62.23649	7.70238	0.1686117	0.17949603	3.1124292	20	3 21.6	21.1
246057 2006 VH_{25}	16.3	X	66.84530	247.74473	126.70564	2.19501	0.0808973	0.22459923	2.6803852	20	—	—
246058 2006 VT_{31}	15.6	X	142.01066	38.31887	281.72113	6.47181	0.1847968	0.23164390	2.6257627	20	—	—
246059 2006 VL_{48}	16.1	X	157.86618	244.69032	99.12958	13.59677	0.2114517	0.24163363	2.5528843	20	1 30.2	20.3
246060 2006 VY_{51}	16.9	X	71.20296	352.24465	309.89494	2.59244	0.1816171	0.21799097	2.7342845	20	12 3.2	21.1
246061 2006 VX_{52}	16.0	X	237.99168	103.78766	289.86842	5.92625	0.0887274	0.18936419	3.0033375	20	6 17.6	20.5
246062 2006 VV_{65}	16.1	X	244.49798	287.15152	237.59318	6.59287	0.1600878	0.21230116	2.7829227	20	12 2.4	19.8
246063 2006 VS_{73}	16.3	X	206.76461	295.11270	242.39260	4.07112	0.0295490	0.20940008	2.8085672	20	11 19.5	20.1
246064 2006 VL_{94}	15.5	X	185.75713	303.39539	54.53930	9.18617	0.2276325	0.17407873	3.1766710	20	3 17.5	21.1
246065 2006 VB_{99}	15.6	X	227.89198	258.41043	74.84386	9.24534	0.0701569	0.17810646	3.1285969	20	3 30.1	20.4
246066 2006 VK_{120}	16.3	X	57.07027	111.36070	264.07938	4.38986	0.0799477	0.22381107	2.6866742	20	—	—
246067 2006 VE_{129}	15.9	X	260.75053	100.43991	252.74830	11.86309	0.2387426	0.19042482	2.9921751	20	5 3.9	20.6
246068 2006 VM_{149}	16.7	X	116.19470	233.14863	118.32211	3.32342	0.2397850	0.23401794	2.6079741	20	—	—
246069 2006 VZ_{168}	16.1	X	225.54991	115.76546	283.92596	1.92010	0.0767398	0.18651330	3.0338645	20	6 12.1	20.5
246070 2006 WD_{42}	16.0	X	104.55818	77.61392	204.97638	7.19394	0.0175476	0.21289756	2.7777229	20	11 29.9	19.9
246071 2006 WH_{44}	15.4	X	173.88676	271.12609	79.19272	17.47758	0.2253585	0.17127836	3.2112026	20	3 3.5	21.2
246072 2006 WJ_{57}	15.5	X	249.14221	283.14384	4.63938	4.33475	0.0913214	0.17616994	3.1514821	20	2 22.3	20.1
246073 2006 WC_{62}	15.1	X	194.90857	204.48942	147.47969	16.29240	0.1844324	0.17684665	3.1434375	20	3 15.4	20.4
246074 2006 WA_{107}	16.2	X	101.32971	186.49019	139.21980	6.06888	0.0594701	0.22225471	2.6992021	20	—	—
246075 2006 WK_{120}	16.1	X	292.86464	30.16012	73.54065	9.82825	0.0342236	0.21333343	2.7739382	20	12 7.2	19.5
246076 2006 WB_{150}	16.8	X	279.98823	231.59716	257.83760	2.79434	0.0186482	0.21321454	2.7749692	20	12 23.9	20.5
246077 2006 WO_{198}	17.0	X	152.42705	174.72858	48.61210	3.00354	0.0675336	0.27907872	2.3190934	20	11 24.6	20.2
246078 2006 WS_{198}	14.9	X	106.15060	57.41315	312.29887	14.00982	0.1564147	0.23445599	2.6047247	20	—	—
246079 2006 XD_{4}	15.8	X	29.75718	6.86433	43.16234	12.52583	0.1776012	0.22212046	2.7002895	20	—	—
246080 2006 XC_{5}	16.0	X	82.64382	197.66085	167.19276	15.38665	0.3140468	0.22812901	2.6526648	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
246081 2006 XN_5	15.5	X	110.69781	54.12700	307.98881	12.28800	0.2143067	0.23294341	2.6159881	20	1 5.6	19.0
246082 2006 XT_{16}	15.3	X	22.00413	204.89406	91.78953	12.12433	0.0818276	0.19111005	2.9850185	20	9 12.8	19.4
246083 2006 XQ_{17}	15.9	X	56.64361	129.81555	295.70878	12.38892	0.2867115	0.22735903	2.6586504	20	1 11.3	17.9
246084 2006 XX_{34}	16.4	X	3.71060	67.80180	327.74348	3.53183	0.0785792	0.21100360	2.7943200	20	12 21.1	19.9
246085 2006 XM_{51}	15.9	X	85.57491	228.31933	89.43207	6.70454	0.0768211	0.21283205	2.7782929	20	12 25.7	20.0
246086 2006 YQ_{33}	15.2	X	10.02083	157.22590	84.98847	10.46172	0.1181817	0.17317669	3.1876925	20	6 7.5	19.1
246087 2007 AL_3	15.6	X	177.33115	102.17056	312.37290	5.74088	0.1282607	0.17514174	3.1638043	20	5 8.1	20.8
246088 2007 AW_8	15.7	X	218.99875	326.46606	98.95840	11.57537	0.0209508	0.18107296	3.0943326	20	7 12.8	20.0
246089 2007 AA_{12}	14.5	X	97.50394	241.71557	313.85242	25.29188	0.1901985	0.17821970	3.1272714	20	8 14.9	19.4
246090 2007 AN_{25}	15.0	X	146.90846	216.68039	300.06974	16.08832	0.0338558	0.18284920	3.0742606	20	8 7.8	19.6
246091 2007 AW_{25}	15.4	X	173.31028	316.48213	145.29499	11.63772	0.0287665	0.17794977	3.1304331	20	7 2.6	20.0
246092 2007 BS_1	15.1	X	248.91584	269.10980	120.87766	22.58259	0.0540235	0.17912320	3.1167466	20	7 1.3	19.7
246093 2007 BR_{39}	15.2	X	9.88461	146.88701	118.06006	16.84300	0.1202905	0.17660368	3.1463199	20	7 8.3	19.1
246094 2007 CS_{44}	15.1	X	293.02256	64.13106	310.00060	16.66809	0.0913635	0.18459238	3.0548756	20	8 1.7	19.0
246095 2007 DQ_{102}	17.3	X	40.03471	8.98093	0.80139	17.87437	0.0803133	0.35017312	1.9934905	20	—	—
246096 2007 EL_{25}	15.8	X	216.16393	127.39590	197.07508	7.08062	0.2296711	0.21570303	2.7535854	20	2 21.8	20.6
246097 2007 EN_{63}	16.9	X	157.39783	216.21991	6.28751	4.98327	0.0636089	0.26567314	2.3964642	20	11 25.7	20.3
246098 2007 EA_{82}	15.6	X	151.85409	100.49986	0.91267	17.91840	0.0294006	0.24041790	2.5614832	20	6 2.7	19.5
246099 2007 EL_{96}	17.9	X	323.04528	46.45339	170.97188	2.91530	0.0534476	0.29520480	2.2338488	20	2 11.4	20.2
246100 2007 EV_{136}	17.5	X	91.80928	230.22429	188.67437	22.33460	0.0593824	0.36811715	1.9281701	20	—	—
246101 2007 ED_{145}	17.7	X	189.70600	187.57777	144.15229	4.70767	0.1828506	0.29370177	2.2414635	20	2 3.7	21.1
246102 2007 EY_{156}	17.4	X	348.88301	71.98395	141.64431	4.51632	0.1047128	0.29973492	2.2112838	20	3 12.2	19.3
246103 2007 ER_{160}	15.5	X	79.44478	140.51805	17.63345	30.68626	0.0411986	0.23440468	2.6051048	20	5 7.0	19.4
246104 2007 EB_{163}	15.5	X	281.69348	141.87916	189.97511	2.89195	0.0605146	0.16999373	3.2273603	20	5 27.6	20.0
246105 2007 EE_{173}	18.4	X	327.37790	249.05976	330.14700	0.82736	0.0589529	0.29777838	2.2209593	20	2 19.7	20.9
246106 2007 EE_{188}	17.4	X	91.32234	177.60126	179.29092	22.05161	0.0728866	0.35440894	1.9775749	20	—	—
246107 2007 FM_{24}	17.1	X	7.28343	341.20201	141.92055	23.11843	0.0743781	0.36425009	1.9417930	20	—	—
246108 2007 FT_{27}	13.3	X	218.38935	175.24404	174.67023	14.40101	0.1020683	0.08281180	5.2128422	20	4 9.5	20.6
246109 2007 FE_{31}	17.6	X	217.18352	132.53199	188.32114	4.38657	0.0916596	0.29405601	2.2396630	20	2 14.3	20.7
246110 2007 FP_{41}	16.4	X	166.10693	72.73939	4.54676	8.31253	0.0597930	0.23768701	2.5810659	20	5 22.2	20.2
246111 2007 FC_{50}	16.5	X	37.02095	337.39147	216.99816	12.18192	0.1629463	0.23244894	2.6196966	20	5 24.2	19.2
246112 2007 GJ_{54}	15.9	X	224.68682	189.09897	119.84113	6.05980	0.0866217	0.21577762	2.7529508	20	2 18.5	20.1
246113 2007 GY_{69}	13.4	X	312.63394	93.44606	182.04643	4.95948	0.0885895	0.08090510	5.2944247	20	4 28.1	20.1
246114 2007 GR_{70}	13.2	X	316.69264	109.26534	183.07540	8.98427	0.0747740	0.08468387	5.1357309	20	5 24.3	19.8
246115 2007 HC_7	17.3	X	295.32804	206.08714	16.81230	4.80835	0.1256309	0.28889291	2.2662690	20	1 4.2	20.3
246116 2007 HS_{44}	16.1	X	128.01836	223.56112	204.07396	11.77094	0.1122236	0.22499505	2.6772407	20	4 2.3	19.9
246117 2007 HD_{50}	17.0	X	190.22348	189.29069	78.80534	7.43147	0.0653087	0.27380581	2.3487724	20	—	—
246118 2007 HB_{88}	16.1	X	356.32631	233.92930	26.36202	11.08702	0.1600421	0.22970189	2.6405415	20	6 6.2	18.8
246119 2007 JC_1	17.4	X	74.48713	277.20410	175.87585	6.41962	0.0298196	0.29310616	2.2444990	20	2 4.2	19.9
246120 2007 JJ_3	15.1	X	78.91913	239.78441	44.51268	17.61695	0.1101433	0.17923602	3.1154385	20	11 5.6	19.7
246121 2007 JD_{11}	16.4	X	4.68603	315.75634	14.00998	1.31622	0.1999342	0.24341477	2.5404155	20	10 19.7	18.7
246122 2007 JV_{12}	15.0	X	41.48732	235.19988	126.26060	11.75201	0.1277861	0.18243704	3.0788890	20	12 27.9	19.3
246123 2007 JF_{13}	17.5	X	342.74711	167.46518	66.13803	6.42715	0.1840851	0.29805417	2.2195891	20	3 23.6	19.3
246124 2007 JW_{22}	17.5	X	274.52147	280.98288	305.05161	1.67287	0.1608223	0.28270561	2.2992160	20	—	—
246125 2007 JO_{42}	16.8	X	251.63004	142.75809	124.21875	24.11198	0.0680999	0.35970973	1.9580988	20	1 5.5	19.2
246126 2007 KY_3	16.9	X	347.67826	0.88829	197.84942	24.70924	0.1761824	0.29418618	2.2390023	20	1 29.6	19.9
246127 2007 LF_{16}	15.2	X	44.59891	111.53629	187.86961	13.12031	0.0311377	0.17185391	3.2040290	20	10 1.6	19.6
246128 2007 LY_{18}	14.8	X	33.89813	242.23963	81.74532	14.35394	0.2454824	0.16836138	3.2481874	20	11 19.2	19.1
246129 2007 LT_{25}	16.0	X	199.08861	164.57488	173.82370	7.90728	0.0649260	0.20274387	2.8697070	20	2 27.2	20.3
246130 2007 LK_{29}	17.1	X	318.06519	255.67254	245.60442	4.35041	0.0727619	0.26434613	2.4044776	20	—	—
246131 2007 LV_{33}	14.9	X	171.90594	5.49273	208.97139	27.29420	0.0894266	0.18118787	3.0930241	20	11 16.0	19.8
246132 Lugyny	16.7	X	245.90415	116.60013	221.28795	8.44543	0.2521359	0.28687854	2.2768653	20	3 26.6	20.5
246133 2007 NS_1	16.4	X	327.44891	77.82690	279.02885	13.59410	0.1916007	0.22916081	2.6446963	20	8 25.7	19.2
246134 2007 NA_4	17.4	X	76.21347	134.86812	57.23039	6.99793	0.0881446	0.30266563	2.1969861	20	7 15.1	19.9
246135 2007 NB_6	15.7	X	14.56664	319.00738	33.70083	15.51242	0.1269503	0.24289169	2.5440616	20	11 22.9	18.9
246136 2007 NM_6	16.1	X	70.57919	229.89758	66.58266	15.66236	0.1210081	0.24391466	2.5369434	20	11 24.8	19.7
246137 2007 OC	17.6	X	270.24024	101.96645	239.07038	4.97345	0.2113398	0.29267448	2.2467055	20	4 29.3	20.7
246138 2007 OG_3	17.9	X	10.13753	271.98629	78.33057	1.69274	0.4813990	0.30946360	2.1646931	20	—	—
246139 2007 OF_8	17.0	X	293.38595	254.20077	89.44714	5.55489	0.2279375	0.29557435	2.2319864	20	6 2.4	19.1
246140 2007 PM	15.7	X	78.10749	233.10585	144.21585	15.49333	0.1988452	0.25760760	2.4462280	20	—	—
246141 2007 PV	15.2	X	108.79098	337.43824	313.81809	10.45463	0.2361723	0.17419606	3.1752445	20	12 20.2	20.7
246142 2007 PC_3	15.4	X	4.63764	292.72892	94.04465	15.57376	0.2715477	0.24270329	2.5453779	20	—	—
246143 2007 PF_5	17.1	X	145.03744	29.53691	293.69103	2.28067	0.2008809	0.26228732	2.4170438	20	—	—
246144 2007 PA_6	17.6	X	279.61807	253.95896	60.07652	1.49844	0.2497942	0.28965664	2.2622837	20	3 30.7	20.8
246145 2007 PE_9	13.2	X	314.70867	246.70033	172.04475	7.78272	0.0936045	0.08473240	5.1337694	20	10 12.6	19.6
246146 2007 PQ_{10}	17.0	X	109.19932	190.58414	165.59189	5.14822	0.1291900	0.25935971	2.4351986	20	—	—
246147 2007 PM_{16}	12.9	X	348.17115	29.23929	344.33604	18.02969	0.0781948	0.08282939	5.2121042	20	9 29.8	19.5
246148 2007 PC_{24}	17.1	X	210.79429	66.01872	232.63243	2.64066	0.2231031	0.27184357	2.3600616	20	1 15.0	21.0
246149 2007 PE_{24}	16.8	X	189.25118	44.40164	289.22388	3.19030	0.2619425	0.27197092	2.3593248	20	2 9.8	21.0
246150 2007 PF_{24}	15.7	X	257.80707	67.57700	299.30567	6.45720	0.2399009	0.21373116	2.7704958	20	5 17.4	20.1
246151 2007 PW_{24}	17.5	X	246.45210	46.51041	263.85996	5.11504	0.1814966	0.28125314	2.3071250	20	2 26.3	21.2
246152 2007 PX_{25}	17.4	X	263.18699	179.35562	115.47436	6.14015	0.1716469	0.28263864	2.2995791	20	2 28.1	20.8
246153 Waltermaria	17.0	X	126.03989	3.73716	309.94137	1.85081	0.1740449	0.25475444	2.4644587	20	—	—
246154 2007 PB_{31}	16.6	X	327.09260	357.96582	272.36658	5.93801	0.1524996	0.29373828	2.2412778	20	4 18.9	18.9
246155 2007 PR_{33}	16.9	X	181.42140	77.00567	249.57929	4.43534	0.1265269	0.26959390	2.3731727	20	1 19.6	20.5
246156 2007 PF_{35}	17.3	X	305.64554	192.84570	150.91055	5.40815	0.2133413	0.29744554	2.2226158	20	6 28.2	19.2
246157 2007 PT_{35}	16.8	X	272.20050	272.11070	64.74733	3.75032	0.1703812	0.28961380	2.2625067	20	5 3.0	19.5
246158 2007 PC_{37}	16.8	X	150.67402	112.37031	227.18911	4.33511	0.1692055	0.26536414	2.3983242	20	1 9.2	20.3
246159 2007 PY_{39}	17.3	X	278.67613	144.78572	155.86703	5.14126	0.1906721	0.28763487	2.2728722	20	3 19.8	20.4
246160 2007 PE_{40}	16.7	X	130.29932	190.58131	159.78265	7.07580	0.1587913	0.26074814	2.4265462	20	—	—

Planet		H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
		m		°	°	°	°		°				
246161	2007 PQ_{45}	15.9	X	5.58830	281.82549	83.32029	15.77241	0.1088527	0.23860594	2.5744347	20	11 27.8	18.9
246162	2007 QR	15.8	X	144.89389	351.38513	0.70871	11.59692	0.3102675	0.26434007	2.4045144	20	2 6.4	19.9
246163	2007 QV_{2}	16.6	X	127.90431	10.63430	11.83792	6.03273	0.2027927	0.26479394	2.4017660	20	2 15.0	20.0
246164	Zdvyzhensk	16.3	X	222.49824	332.58950	288.90262	5.67262	0.0829480	0.26604339	2.3942403	20	—	—
246165	2007 QT_{11}	18.0	X	326.78917	328.19508	272.57980	1.03214	0.1850612	0.28461091	2.2889432	20	3 1.7	20.5
246166	2007 RQ_{5}	15.6	X	19.41939	315.81234	16.71068	13.52613	0.1864543	0.23001069	2.6381776	20	11 8.4	18.8
246167	Joskohn	15.9	X	29.37685	40.49506	271.83402	10.87664	0.1939891	0.23052938	2.6342189	20	10 28.9	19.3
246168	2007 RE_{13}	16.8	X	145.29571	290.22227	74.50609	3.27475	0.1432907	0.26559942	2.3969076	20	2 2.9	20.1
246169	2007 RQ_{13}	17.1	X	284.62642	3.50545	329.19764	1.81285	0.2300170	0.29058071	2.2574849	20	5 2.6	19.8
246170	2007 RY_{13}	16.2	X	278.29710	73.23447	266.68792	6.54805	0.2396212	0.21354015	2.7721476	20	5 5.0	20.2
246171	Konrad	15.9	X	126.42207	173.34813	190.41557	12.22630	0.2641713	0.26264557	2.4148454	20	1 23.7	19.6
246172	2007 RL_{16}	16.8	X	183.25609	304.73178	31.68409	6.56181	0.2590235	0.26812920	2.3818074	20	2 12.3	21.0
246173	2007 RN_{17}	16.7	X	18.57470	345.12584	310.14291	6.39643	0.0737863	0.30219408	2.1992710	20	9 13.1	19.0
246174	2007 RF_{23}	15.3	X	60.15598	222.06963	184.86286	19.21760	0.0960123	0.17916529	3.1162584	20	—	—
246175	2007 RT_{27}	16.1	X	95.44973	312.10328	51.23415	6.45436	0.2393740	0.25592123	2.4569624	20	—	—
246176	2007 RV_{32}	16.2	X	129.06289	346.71208	18.18812	10.05773	0.2859586	0.26171832	2.4205458	20	2 6.1	20.0
246177	2007 RN_{33}	17.1	X	267.04601	216.90514	97.69128	3.82948	0.1795330	0.28345988	2.2951354	20	3 28.2	20.3
246178	2007 RD_{38}	14.4	X	211.75660	226.39984	156.04284	9.14960	0.1820873	0.12546276	3.9517806	20	5 5.4	20.8
246179	2007 RL_{38}	17.2	X	151.24434	261.45382	113.37036	2.48250	0.1923839	0.26779638	2.3837804	20	2 26.2	20.8
246180	2007 RC_{45}	16.9	X	316.83179	80.20389	206.33782	6.50362	0.1327293	0.28891486	2.2661542	20	5 2.8	18.9
246181	2007 RP_{47}	17.2	X	350.85229	33.93747	184.45969	2.55082	0.0813818	0.27727064	2.3291643	20	3 27.1	19.5
246182	2007 RS_{48}	17.2	X	348.18068	302.68798	7.88481	5.18164	0.1952264	0.29934712	2.2131932	20	8 26.6	18.4
246183	2007 RC_{57}	16.4	X	185.78491	11.04043	313.82378	4.09786	0.2189226	0.26748387	2.3856368	20	1 27.6	20.3
246184	2007 RA_{58}	15.3	X	78.84642	41.34371	26.11093	27.42397	0.1606137	0.17983169	3.1085551	20	3 1.3	19.9
246185	2007 RH_{58}	15.2	X	164.99702	317.96520	62.86951	17.56374	0.1164853	0.18519893	3.0482019	20	3 27.8	20.3
246186	2007 RN_{58}	15.8	X	117.37776	197.55502	208.54998	10.00472	0.0555396	0.18801269	3.0177130	20	2 16.9	20.3
246187	2007 RO_{58}	15.6	X	69.45072	298.01732	349.03591	12.67530	0.1495012	0.23396786	2.6083463	20	11 7.7	19.6
246188	2007 RY_{68}	16.2	X	167.10150	9.39532	140.98604	5.74902	0.0309053	0.22439670	2.6819977	20	8 31.6	19.8
246189	2007 RE_{69}	16.5	X	136.00391	27.67082	27.73825	3.47100	0.0764446	0.19702836	2.9249395	20	3 26.6	20.7
246190	2007 RT_{82}	18.0	X	248.03384	188.98749	120.56268	0.39019	0.2102900	0.28036601	2.3119892	20	2 27.6	21.7
246191	2007 RY_{83}	15.8	X	84.53846	330.62964	89.22703	2.95605	0.1016262	0.18389608	3.0625821	20	2 4.1	19.8
246192	2007 RH_{88}	15.7	X	239.55608	333.76643	357.28452	7.59561	0.0813771	0.20154451	2.8810806	20	3 31.6	20.1
246193	2007 RD_{99}	16.7	X	336.52999	39.21653	327.22226	6.04596	0.0791215	0.23184072	2.6242764	20	10 4.3	19.8
246194	2007 RG_{102}	16.8	X	230.04566	15.73667	251.59499	4.68075	0.1776287	0.26764758	2.3846638	20	—	—
246195	2007 RD_{106}	16.5	X	161.21756	290.53909	20.99027	7.60328	0.1237726	0.25813306	2.4429072	20	—	—
246196	2007 RR_{109}	16.8	X	187.15855	116.82732	192.35516	4.98117	0.0849284	0.26315291	2.4117406	20	1 2.6	20.2
246197	2007 RY_{116}	15.8	X	104.56244	48.01559	347.21962	11.63279	0.1095580	0.18356826	3.0662272	20	2 3.0	20.1
246198	2007 RW_{128}	16.8	X	108.29273	178.55159	18.41392	10.09168	0.1594633	0.21900053	2.7258750	20	9 4.2	21.1
246199	2007 RM_{129}	17.3	X	179.40386	199.36632	151.68874	2.45108	0.2140204	0.26946780	2.3739130	20	2 22.3	21.0
246200	2007 RN_{132}	16.2	X	242.31736	237.36532	101.31935	3.14286	0.0786435	0.20225711	2.8743095	20	4 16.1	20.4
246201	2007 RH_{135}	15.8	X	313.04039	299.73079	32.38816	12.48778	0.1704149	0.21616751	2.7496395	20	6 27.5	19.2
246202	2007 RC_{136}	17.8	X	111.00097	88.47420	132.31370	2.19716	0.0631429	0.30722204	2.1752097	20	10 9.3	20.4
246203	2007 RO_{139}	16.0	X	122.58288	39.41247	324.93596	22.78903	0.2206678	0.26430691	2.4047155	20	1 22.5	19.4
246204	2007 RA_{142}	16.9	X	215.13490	172.04005	165.37767	4.19788	0.2258528	0.27476061	2.3433279	20	3 5.1	20.7
246205	2007 RY_{142}	16.8	X	126.29824	135.19532	212.38824	5.87092	0.1249791	0.26022168	2.4298179	20	—	—
246206	2007 RV_{143}	17.8	X	315.36434	114.78692	210.13927	5.96247	0.1615549	0.29619016	2.2288917	20	6 25.9	19.7
246207	2007 RS_{144}	16.6	X	305.45367	44.35411	322.57320	4.57620	0.0767323	0.22309837	2.6923930	20	8 16.6	19.9
246208	2007 RW_{144}	16.0	X	313.85962	164.01447	205.26763	5.85427	0.0535099	0.22508967	2.6764903	20	9 2.5	19.4
246209	2007 RZ_{149}	15.2	X	221.36546	346.58265	277.08416	9.10780	0.0300962	0.18249308	3.0782587	20	—	—
246210	2007 RF_{150}	15.3	X	224.88861	55.54890	274.91218	9.95987	0.1138046	0.19635744	2.9315984	20	3 9.6	20.1
246211	2007 RE_{153}	15.3	X	129.03592	338.72149	335.63415	14.96102	0.0646547	0.17654777	3.1469842	20	—	—
246212	2007 RR_{164}	15.8	X	162.42586	106.59781	311.55558	4.76465	0.0693333	0.20339647	2.8635654	20	4 24.6	20.1
246213	2007 RP_{165}	16.6	X	256.18498	222.09165	191.52175	5.15002	0.0583212	0.22230411	2.6988022	20	8 10.2	20.2
246214	2007 RE_{167}	15.8	X	20.21247	127.59108	358.26957	12.46281	0.1620272	0.18537098	3.0463156	20	1 25.3	19.3
246215	2007 RC_{169}	16.8	X	261.61474	307.19458	109.39771	2.99421	0.0801647	0.22300003	2.6931845	20	8 20.8	20.2
246216	2007 RL_{173}	17.2	X	180.12807	220.76509	76.15882	3.28891	0.2025579	0.26116383	2.4239707	20	—	—
246217	2007 RX_{175}	16.1	X	276.79993	165.18365	190.74929	9.69190	0.1422373	0.21082093	2.7959339	20	6 9.6	20.1
246218	2007 RE_{176}	16.1	X	239.72016	39.95768	3.80584	4.86836	0.0241437	0.21379009	2.7699866	20	7 13.2	19.9
246219	2007 RF_{179}	15.7	X	50.51361	244.38951	208.81305	10.01735	0.0604540	0.17616139	3.1515841	20	1 23.1	20.0
246220	2007 RK_{186}	17.4	X	249.76556	120.71340	194.60738	3.62567	0.1831460	0.27850536	2.3222752	20	3 8.6	21.0
246221	2007 RR_{194}	17.7	X	215.20213	247.57020	44.57555	2.04242	0.1835539	0.26775966	2.3839984	20	1 11.8	21.7
246222	2007 RL_{203}	16.6	X	356.47538	133.57742	191.93349	1.69256	0.0896540	0.22432661	2.6825563	20	9 11.3	19.6
246223	2007 RX_{204}	15.6	X	50.81058	171.41480	208.02309	11.24828	0.0960657	0.16821632	3.2500544	20	—	—
246224	2007 RU_{208}	17.0	X	167.13754	255.86373	28.18197	5.03641	0.1852006	0.25634401	2.4542602	20	—	—
246225	2007 RX_{209}	17.2	X	237.17145	262.17040	47.94345	4.64214	0.1391604	0.27510793	2.3413552	20	2 25.1	20.7
246226	2007 RH_{212}	17.1	X	259.21829	347.75696	261.37139	2.56720	0.0952026	0.26578398	2.3957979	20	1 3.6	20.3
246227	2007 RJ_{217}	17.0	X	193.57371	143.30895	158.12397	5.13788	0.2403386	0.26567345	2.3964623	20	1 6.2	21.1
246228	2007 RK_{232}	16.7	X	249.58787	193.75056	97.03693	3.24401	0.1127334	0.27498020	2.3420802	20	2 13.7	19.9
246229	2007 RQ_{232}	16.2	X	217.75481	3.88895	36.89525	4.80204	0.0701268	0.20997278	2.8034580	20	6 4.9	20.3
246230	2007 RU_{239}	16.7	X	137.86628	291.30945	79.29458	7.42405	0.1256103	0.26428854	2.4048269	20	1 31.9	20.1
246231	2007 RC_{241}	15.9	X	11.04263	22.06923	296.42090	16.51891	0.0889971	0.22925498	2.6439720	20	9 16.0	19.5
246232	2007 RN_{241}	17.2	X	22.02461	78.88960	234.38962	4.84094	0.2300839	0.30774507	2.1727444	20	11 16.0	19.6
246233	2007 RW_{250}	17.2	X	232.61758	341.92986	246.16166	5.23267	0.1842051	0.25636946	2.4540977	20	—	—
246234	2007 RT_{254}	16.1	X	40.14745	105.81989	177.95825	21.45582	0.0394106	0.22863473	2.6487517	20	9 14.6	19.6
246235	2007 RK_{256}	16.5	X	229.22507	238.33721	84.26011	8.97122	0.0728720	0.27753422	2.3276893	20	3 9.6	19.8
246236	2007 RV_{260}	16.5	X	270.08203	281.50782	121.02558	4.25067	0.0936498	0.21922471	2.7240164	20	8 10.5	19.9
246237	2007 RB_{274}	15.7	X	321.90274	326.20252	203.49823	10.58665	0.0210371	0.18057772	3.0999875	20	1 2.6	20.2
246238	Crampton	15.3	X	50.55805	308.63880	118.56850	13.98267	0.0477658	0.17542357	3.1604148	20	—	—
246239	2007 RF_{278}	16.6	X	342.24856	252.83376	118.85641	10.75623	0.2089567	0.23026027	2.6362710	20	11 6.7	19.2
246240	2007 RY_{286}	15.8	X	92.19362	335.31086	80.80933	5.33455	0.1311771	0.18475911	3.0530375	20	2 14.7	19.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
246241 2007 RQ_{301}	16.4	X	282.41754	195.48741	172.57721	14.08271	0.1009331	0.21367127	2.7710134	20	7 8.5	20.4
246242 2007 RW_{309}	16.0	X	78.54178	282.82335	165.77625	7.85278	0.1238414	0.18612756	3.0380547	20	3 4.6	19.9
246243 2007 RH_{323}	15.7	X	84.26592	34.15381	235.79080	10.64948	0.1048306	0.22156297	2.7048172	20	10 30.3	19.6
246244 2007 SV_5	17.6	X	231.26335	239.75277	164.23023	2.48498	0.1541626	0.28927892	2.2642525	20	6 18.5	20.9
246245 2007 SX_5	17.0	X	225.50007	81.33650	242.66581	1.63658	0.2127115	0.27551191	2.3390659	20	2 25.6	20.8
246246 2007 SD_7	17.1	X	211.35130	52.78109	148.46232	3.06205	0.0369485	0.24201261	2.5502184	20	12 31.8	20.4
246247 Sheldoncooper	15.8	X	254.62672	178.69865	197.88347	7.41715	0.0691260	0.20870311	2.8148166	20	6 18.5	19.9
246248 2007 TX	15.1	X	81.50100	78.77743	14.17796	9.71295	0.0657764	0.18472631	3.0533990	20	3 8.9	19.3
246249 2007 TV_3	15.7	X	127.99590	327.62809	91.07226	11.60079	0.1081996	0.19076211	2.9886471	20	3 31.1	20.3
246250 2007 TN_4	17.0	X	172.16900	284.63530	43.21530	6.88561	0.1492420	0.26203617	2.4185880	20	1 16.9	20.7
246251 2007 TU_6	14.8	X	44.77309	222.72190	214.65831	26.97992	0.2058907	0.17315303	3.1879829	20	1 3.1	18.9
246252 2007 TY_6	15.4	X	131.20656	111.08770	267.19765	4.95213	0.1001231	0.18291631	3.0735086	20	2 7.2	20.0
246253 2007 TF_7	17.0	X	327.99928	72.20533	273.77106	2.74215	0.1630771	0.29858752	2.2169451	20	9 1.4	18.4
246254 2007 TV_7	15.5	X	240.78781	98.71071	190.58210	8.49350	0.0207609	0.17841985	3.1249322	20	2 17.9	20.1
246255 2007 TR_{12}	17.4	X	206.84236	301.77157	108.21373	1.51610	0.2133836	0.28172527	2.3045467	20	5 28.9	21.2
246256 2007 TQ_{13}	15.4	X	80.12892	17.48752	39.30886	18.60043	0.2371954	0.17584124	3.1554082	20	2 24.4	19.9
246257 2007 TS_{13}	15.8	X	355.04774	118.01470	241.24015	11.85600	0.2839140	0.22584275	2.6705371	20	11 20.4	18.0
246258 2007 TU_{14}	17.0	X	229.00115	301.12828	31.41255	2.68971	0.2271999	0.27480483	2.3430765	20	3 11.2	21.0
246259 2007 TC_{15}	17.0	X	69.01918	118.26501	204.69012	10.71355	0.2570065	0.24013088	2.5635239	20	—	—
246260 2007 TV_{16}	16.3	X	56.98677	70.87585	228.45647	11.86536	0.2618604	0.23091331	2.6312982	20	11 27.6	20.2
246261 2007 TW_{16}	16.2	X	343.13806	21.32265	358.16621	3.42540	0.2245237	0.22752409	2.6573645	20	11 14.7	18.6
246262 2007 TJ_{17}	18.1	X	340.03735	321.78709	17.45661	2.47378	0.2404486	0.30060107	2.2070340	20	9 30.3	18.7
246263 2007 TV_{17}	17.1	X	349.97898	350.80337	324.95236	4.94153	0.1966719	0.29850240	2.2173666	20	9 6.4	18.4
246264 2007 TR_{25}	16.4	X	82.67917	120.47533	203.61479	12.56915	0.0738042	0.24049852	2.5609108	20	—	—
246265 2007 TY_{25}	16.5	X	282.76226	235.59821	201.15402	11.24248	0.0470925	0.22852992	2.6495615	20	10 22.2	19.8
246266 2007 TW_{26}	15.6	X	349.58487	104.58041	20.92156	9.39607	0.0625174	0.17438775	3.1729172	20	—	—
246267 2007 TN_{29}	16.7	X	314.51073	100.64247	212.54286	3.69032	0.0569822	0.20876742	2.8142385	20	6 17.9	20.4
246268 2007 TD_{30}	16.2	X	93.84012	49.06265	33.57375	4.37384	0.0499559	0.18655913	3.0333676	20	3 8.4	20.4
246269 2007 TF_{32}	16.5	X	326.25278	269.34821	353.44751	7.16154	0.1905089	0.21086311	2.7955610	20	4 7.8	19.8
246270 2007 TR_{34}	15.4	X	138.23322	153.07811	211.89040	21.63234	0.0554246	0.17990779	3.1076784	20	1 21.4	20.4
246271 2007 TJ_{40}	17.3	X	256.20113	177.28381	161.90060	2.79091	0.2199866	0.28215262	2.3022191	20	4 12.7	20.6
246272 2007 TO_{41}	17.1	X	175.82592	0.24192	203.39531	4.57077	0.0775778	0.30726636	2.1750006	20	12 2.1	19.8
246273 2007 TW_{44}	15.5	X	329.25459	128.07743	34.75489	10.64480	0.0549142	0.17862987	3.1224823	20	1 1.3	20.0
246274 2007 TY_{45}	15.2	X	65.93502	248.64810	205.81875	15.68215	0.2322420	0.17802979	3.1294950	20	3 7.3	19.2
246275 2007 TS_{46}	16.0	X	71.13215	229.32295	218.25706	10.61477	0.0568406	0.18376060	3.0640871	20	2 9.9	20.4
246276 2007 TQ_{47}	16.4	X	233.39119	132.54704	275.56262	2.45777	0.0922183	0.21021894	2.8012691	20	7 1.1	20.3
246277 2007 TG_{54}	16.2	X	169.60983	211.10233	158.94588	1.68872	0.1548393	0.18956914	3.0011725	20	3 11.5	21.1
246278 2007 TT_{54}	15.9	X	111.80486	213.34077	205.63080	12.30284	0.1081571	0.18472741	3.0533868	20	3 4.5	20.4
246279 2007 TE_{55}	16.1	X	217.75473	309.32614	26.59653	10.41813	0.0880538	0.19211778	2.9745710	20	3 19.1	20.7
246280 2007 TU_{64}	16.0	X	55.86785	257.45946	190.77398	4.68002	0.1312938	0.17617469	3.1514255	20	2 1.6	19.9
246281 2007 TC_{65}	16.3	X	110.89833	10.42000	184.77301	2.88542	0.0341160	0.21293702	2.7773798	20	8 18.1	20.3
246282 2007 TH_{65}	15.9	X	2.20132	184.02449	207.75292	12.16144	0.1056506	0.23333303	2.6130752	20	12 23.3	19.3
246283 2007 TF_{66}	17.2	X	195.17246	347.69475	301.00796	2.27954	0.1704608	0.26217743	2.4177191	20	—	—
246284 2007 TD_{67}	16.3	X	15.23975	62.78013	198.77619	4.03627	0.0634932	0.21262013	2.7801387	20	7 9.9	19.9
246285 2007 TK_{67}	15.9	X	157.84992	253.09357	179.47774	9.94499	0.0801556	0.19877857	2.9077451	20	5 12.6	20.4
246286 2007 TS_{67}	15.5	X	315.58642	74.96005	182.29468	10.84465	0.0646993	0.19751044	2.9201782	20	4 6.0	19.3
246287 2007 TX_{70}	15.8	X	69.84551	329.47781	104.29344	2.72359	0.2014686	0.17898936	3.1183001	20	2 15.7	19.6
246288 2007 TS_{72}	17.2	X	19.28786	251.00661	54.59237	4.68254	0.2120851	0.30394280	2.1908273	20	10 28.6	19.2
246289 2007 TC_{73}	16.6	X	82.84845	174.56037	17.00994	7.22662	0.0802798	0.21069349	2.7970612	20	7 17.3	20.6
246290 2007 TH_{76}	16.0	X	53.30714	303.85845	154.28368	9.62668	0.1309549	0.18744172	3.0238381	20	2 8.6	19.7
246291 2007 TQ_{76}	18.0	X	240.49581	278.37714	140.58105	2.47588	0.1404192	0.29620231	2.2288307	20	7 22.7	20.7
246292 2007 TW_{77}	16.3	X	238.75751	162.26590	239.63500	4.93141	0.0299738	0.20927892	2.8096511	20	7 6.6	20.2
246293 2007 TH_{79}	17.2	X	57.48101	156.17511	293.69348	1.36345	0.1490998	0.25627063	2.4547286	20	1 23.8	19.3
246294 2007 TN_{81}	16.5	X	301.66070	207.21232	165.77009	5.36665	0.1664872	0.21807966	2.7335432	20	8 5.3	19.6
246295 2007 TF_{82}	16.8	X	165.53004	356.66504	161.89993	13.40432	0.0989998	0.22752621	2.6573479	20	9 8.1	20.6
246296 2007 TR_{89}	15.8	X	43.61569	21.70646	57.09199	10.96122	0.0962365	0.17293968	3.1906043	20	1 1.4	20.0
246297 2007 TU_{101}	16.2	X	282.73585	182.60453	176.76683	5.29011	0.0820852	0.21285470	2.7780958	20	6 30.9	19.9
246298 2007 TE_{102}	16.9	X	326.14838	178.57596	167.94263	5.26154	0.1985961	0.29804219	2.2196486	20	8 28.2	18.2
246299 2007 TF_{104}	16.4	X	20.75938	86.80050	80.74986	2.46762	0.1260502	0.18467960	3.0539137	20	3 18.3	19.9
246300 2007 TN_{104}	16.3	X	45.61847	330.30161	149.51107	1.65240	0.1244541	0.17960041	3.1112232	20	2 25.7	20.0
246301 2007 TF_{116}	15.8	X	80.72987	323.65416	140.86939	3.62212	0.1347817	0.18464830	3.0542589	20	3 30.8	19.9
246302 2007 TW_{125}	16.5	X	26.50038	55.40485	192.37806	1.24924	0.1041617	0.20930056	2.8094575	20	7 13.0	19.7
246303 2007 TB_{129}	17.7	X	168.07609	292.34120	25.27258	1.08810	0.1746543	0.25709304	2.4494909	20	1 1.9	21.5
246304 2007 TZ_{129}	17.4	X	310.36977	105.32835	211.63752	4.88122	0.1800028	0.28834082	2.2691609	20	5 30.8	19.6
246305 2007 TD_{135}	16.8	X	266.60104	265.36397	141.11274	3.11277	0.0923327	0.22214439	2.7000957	20	8 10.9	20.2
246306 2007 TX_{140}	17.0	X	207.43400	268.88462	81.75724	3.29497	0.2291993	0.27404237	2.3474206	20	3 16.9	20.9
246307 2007 TV_{147}	17.6	X	256.93625	228.61300	107.15015	3.12781	0.1938107	0.28314331	2.2968458	20	4 12.3	20.8
246308 2007 TX_{147}	16.1	X	266.55334	249.36894	187.96741	21.90560	0.1281210	0.22326768	2.6910316	20	9 14.6	19.7
246309 2007 TY_{147}	14.9	X	61.10351	12.93631	39.38993	17.25749	0.1968763	0.17415616	3.1757293	20	1 6.1	18.9
246310 2007 TM_{153}	17.2	X	154.86084	60.97275	299.62471	1.63402	0.2057638	0.26507044	2.4000955	20	2 12.3	20.8
246311 2007 TX_{157}	15.9	X	245.04358	250.61167	212.51325	21.53040	0.0734643	0.22534188	2.6744929	20	9 27.1	19.8
246312 2007 TT_{158}	15.7	X	65.72873	92.21521	1.72841	10.61650	0.1643077	0.18039250	3.1021091	20	3 2.1	19.5
246313 2007 TJ_{160}	15.2	X	157.38611	27.50072	14.57750	11.18238	0.1134694	0.19011586	2.9954160	20	4 4.7	19.8
246314 2007 TV_{164}	16.3	X	320.85743	305.18474	48.74994	5.50296	0.1299719	0.21899640	2.7259093	20	8 21.5	19.3
246315 2007 TA_{167}	17.2	X	155.99480	116.46349	235.61881	2.16862	0.1368092	0.26277342	2.4140620	20	1 27.5	20.7
246316 2007 TP_{167}	16.8	X	89.49434	176.36994	280.49738	1.81094	0.1391463	0.26668715	2.3903858	20	3 23.6	19.5
246317 2007 TV_{168}	15.7	X	246.11347	209.66500	236.15836	8.12742	0.0676260	0.21929978	2.7233947	20	9 4.9	19.6
246318 2007 TZ_{169}	15.5	X	354.20379	121.28151	224.83888	14.09694	0.1544398	0.22485788	2.6783293	20	10 9.9	18.4
246319 2007 TQ_{172}	15.1	X	93.70195	269.52059	155.55051	26.30362	0.2277046	0.18117115	3.0932144	20	3 12.2	19.5
246320 2007 TB_{181}	17.5	X	345.92764	168.88357	139.17330	5.65210	0.1880519	0.29732438	2.2232196	20	8 11.9	18.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
246321 2007 TR_{181}	16.4	X	343.52125	237.76810	87.05695	8.59368	0.2005301	0.22197332	2.7014827	20	8 24.1	18.9
246322 2007 TH_{183}	15.6	X	53.04255	70.62320	21.44819	9.28325	0.0713362	0.17914511	3.1164924	20	1 31.6	19.8
246323 2007 TF_{192}	16.1	X	129.15263	202.86690	217.68365	9.19663	0.0977810	0.19115809	2.9845184	20	3 25.1	20.6
246324 2007 TE_{200}	17.1	X	37.55088	289.30410	29.58370	0.81246	0.1212532	0.23010424	2.6374625	20	11 9.9	20.4
246325 2007 TD_{214}	16.1	X	123.74716	14.54887	226.96929	12.25482	0.0757428	0.22798470	2.6537841	20	11 6.5	20.1
246326 2007 TK_{215}	17.1	X	164.82249	141.58845	261.68036	2.80470	0.1064260	0.27096689	2.3651493	20	4 7.7	20.6
246327 2007 TR_{218}	16.7	X	11.87381	340.54315	31.03355	2.83176	0.1276462	0.23136744	2.6278539	20	12 14.1	19.9
246328 2007 TE_{226}	16.7	X	160.64105	281.44693	169.54207	2.10265	0.0251469	0.20282775	2.8689158	20	6 4.0	20.7
246329 2007 TT_{228}	16.1	X	124.54517	197.97997	219.74175	8.98415	0.0403772	0.18740726	3.0242088	20	3 8.9	20.6
246330 2007 TE_{229}	16.1	X	233.98806	355.91741	241.71502	1.64437	0.0419665	0.17226083	3.1989813	20	—	—
246331 2007 TB_{234}	16.6	X	40.24067	257.39885	116.60941	2.13758	0.1701675	0.23842148	2.5757624	20	—	—
246332 2007 TJ_{234}	15.8	X	22.83916	139.43733	56.62073	12.79274	0.0977853	0.19146237	2.9813555	20	4 28.3	19.5
246333 2007 TK_{238}	15.9	X	246.58698	12.57279	52.81015	5.83123	0.0781196	0.21349238	2.7725611	20	8 13.7	19.8
246334 2007 TF_{243}	15.3	X	76.67857	108.96050	290.53100	11.09019	0.0620843	0.17798349	3.1300377	20	—	—
246335 2007 TJ_{244}	16.0	X	292.67003	142.83363	242.78571	8.64050	0.2227702	0.21944355	2.7222051	20	7 27.5	19.4
246336 2007 TW_{244}	17.4	X	26.44341	339.87317	333.64982	5.66402	0.2914584	0.30812668	2.1709501	20	11 30.5	20.1
246337 2007 TG_{245}	15.3	X	99.95867	115.16162	307.06241	8.85892	0.1177649	0.18354430	3.0664940	20	2 25.5	19.6
246338 2007 TA_{250}	16.4	X	349.72118	43.03916	248.58212	3.57134	0.0346313	0.21307520	2.7761789	20	7 11.9	19.9
246339 2007 TT_{261}	16.9	X	321.32805	19.07808	4.06449	0.76037	0.0407512	0.22258334	2.6965446	20	10 4.8	20.3
246340 2007 TK_{282}	16.3	X	106.25028	280.78485	135.18976	2.40723	0.1165367	0.18848995	3.0126169	20	2 27.7	20.5
246341 2007 TV_{287}	16.4	X	325.05209	255.15873	125.96770	7.85579	0.2064070	0.22693048	2.6619966	20	10 8.9	18.8
246342 2007 TY_{287}	16.1	X	326.96988	285.61192	86.92496	9.29685	0.1634498	0.22617013	2.6679594	20	10 2.9	18.9
246343 2007 TO_{290}	15.3	X	98.27058	280.70834	110.22344	12.13524	0.1006837	0.18143819	3.0901786	20	1 17.2	19.5
246344 2007 TD_{294}	16.1	X	99.49002	106.88459	226.09051	14.15301	0.1525550	0.24237033	2.5477085	20	—	—
246345 Carolharris	15.7	X	222.24598	8.37749	259.72180	3.94976	0.1196913	0.17450768	3.1714633	20	1 1.9	20.8
246346 2007 TK_{301}	16.0	X	277.55295	208.56479	22.57395	5.23025	0.1079846	0.18025932	3.1036369	20	1 14.5	20.6
246347 2007 TX_{306}	16.3	X	127.16586	215.68973	20.50392	4.57580	0.2053278	0.23480031	2.6021776	20	11 7.5	20.6
246348 2007 TJ_{309}	16.4	X	335.44247	241.77116	90.19233	3.10928	0.0246067	0.21721236	2.7408148	20	8 17.7	20.0
246349 2007 TK_{309}	16.1	X	304.02943	53.14857	127.26033	2.97162	0.0586861	0.17627720	3.1502036	20	—	—
246350 2007 TD_{311}	17.9	X	283.62268	248.45081	46.67867	0.22558	0.2118237	0.28265810	2.2994736	20	3 14.9	20.9
246351 2007 TR_{311}	16.7	X	20.70251	204.99007	126.78399	2.97860	0.0912807	0.22886067	2.6470081	20	10 30.9	19.9
246352 2007 TU_{314}	16.6	X	119.21260	159.95584	190.56029	4.79202	0.2247618	0.26184440	2.4197687	20	—	—
246353 2007 TG_{318}	17.2	X	247.95283	88.27338	209.47613	3.07834	0.1689578	0.26895109	2.3769526	20	2 15.3	20.9
246354 2007 TW_{321}	16.1	X	340.04967	34.57968	289.02319	4.71617	0.0440519	0.21596299	2.7513753	20	8 10.2	19.5
246355 2007 TJ_{326}	15.9	X	312.64028	63.93655	294.24180	3.86991	0.0810867	0.21721795	2.7407678	20	8 13.7	19.2
246356 2007 TL_{330}	16.4	X	356.12596	112.17948	242.06377	4.52151	0.0575784	0.22502415	2.6770098	20	10 17.1	19.8
246357 2007 TP_{331}	16.3	X	326.74874	9.76925	300.52240	2.64046	0.0833483	0.20911755	2.8110964	20	6 30.3	19.5
246358 2007 TX_{331}	16.0	X	334.61077	120.69041	252.02120	3.97193	0.0218328	0.22278628	2.6949068	20	10 8.3	19.4
246359 2007 TT_{335}	17.2	X	67.71373	305.39921	256.86611	3.22260	0.0703959	0.29295242	2.2452842	20	7 12.3	19.6
246360 2007 TP_{355}	16.4	X	64.34590	197.27067	132.81791	14.26511	0.2180646	0.23948955	2.5680985	20	—	—
246361 2007 TS_{366}	16.6	X	295.60555	345.41765	8.52237	7.27642	0.1185622	0.21203519	2.7852494	20	7 8.4	20.2
246362 2007 TB_{367}	15.2	X	93.91862	36.00763	25.90981	17.34740	0.1145647	0.17961541	3.1110499	20	2 28.8	19.8
246363 2007 TQ_{378}	15.8	X	67.32964	212.82691	253.45789	5.76424	0.1412922	0.18451509	3.0557287	20	3 10.9	19.9
246364 2007 TS_{385}	16.2	X	128.39620	181.03889	226.87354	4.19888	0.0977918	0.18794326	3.0184562	20	3 9.6	20.7
246365 2007 TV_{386}	17.4	X	221.22915	157.51071	215.56943	1.74945	0.2247946	0.28554969	2.2839237	20	4 22.9	21.0
246366 2007 TE_{392}	15.8	X	291.97984	59.34654	193.85364	9.81857	0.0405937	0.19211877	2.9745608	20	3 1.9	20.1
246367 2007 TF_{392}	17.5	X	219.22082	136.94806	166.71282	1.16895	0.1955453	0.26911001	2.3760167	20	1 28.3	21.4
246368 2007 TG_{392}	16.4	X	316.91002	334.68561	38.71461	6.70683	0.0367199	0.22287859	2.6941627	20	9 18.6	19.8
246369 2007 TR_{398}	15.1	X	30.41028	235.21516	237.30585	8.60441	0.0419002	0.17836661	3.1255540	20	1 18.9	19.4
246370 2007 TO_{399}	15.6	X	339.64055	223.13458	281.00545	4.09156	0.1088948	0.17132915	3.2105680	20	—	—
246371 2007 TO_{400}	16.0	X	28.81535	98.82334	32.72308	8.73431	0.1016638	0.18191507	3.0847757	20	2 16.3	19.9
246372 2007 TM_{414}	15.8	X	97.01056	297.56835	123.48611	13.03747	0.1400087	0.18214941	3.0821294	20	2 29.1	20.2
246373 2007 TQ_{418}	16.5	X	310.40657	76.92840	258.06292	3.11134	0.0619913	0.20955764	2.8071593	20	7 10.9	19.9
246374 2007 TB_{419}	15.5	X	149.79533	287.59410	119.58354	13.10793	0.1102993	0.19017874	2.9947558	20	4 8.9	20.3
246375 2007 TW_{419}	15.3	X	63.54590	128.75504	304.42289	17.52850	0.1932523	0.18085643	3.0968018	20	2 1.4	18.9
246376 2007 TT_{427}	16.9	X	324.53657	171.14448	120.83077	6.41246	0.1706353	0.28755791	2.2732778	20	5 21.8	18.9
246377 2007 TH_{429}	16.2	X	1.49827	87.65683	52.85521	7.30044	0.0767672	0.17618522	3.1512999	20	1 16.4	20.3
246378 2007 TE_{431}	16.3	X	21.23841	136.17302	8.16494	2.34085	0.0703732	0.18402014	3.0612054	20	2 16.8	20.2
246379 2007 TR_{432}	16.1	X	287.76545	252.61514	86.79588	6.81012	0.0637414	0.20825048	2.8188938	20	6 13.9	19.7
246380 2007 TW_{434}	16.0	X	11.92753	203.58640	6.93933	2.84189	0.0284093	0.19446456	2.9505914	20	4 25.3	19.9
246381 2007 UC	16.8	X	300.03245	104.96875	244.17074	2.50159	0.1681346	0.29343390	2.2428274	20	7 3.9	18.7
246382 2007 UJ_3	16.0	X	80.44534	299.07753	336.78684	16.46761	0.2207731	0.23243845	2.6197755	20	11 10.6	20.5
246383 2007 US_{11}	16.5	X	217.06317	281.22998	73.21957	6.37352	0.2731623	0.27565504	2.3382562	20	3 29.4	20.7
246384 2007 UW_{11}	14.7	X	161.72855	278.89139	78.84701	16.90833	0.2437902	0.18430645	3.0580343	20	3 2.4	20.3
246385 2007 UD_{18}	17.0	X	144.68983	273.82972	77.36322	5.25309	0.1486263	0.25999858	2.4312077	20	1 17.2	20.4
246386 2007 UP_{18}	15.6	X	160.69542	171.01958	222.89933	5.92381	0.1206678	0.18854778	3.0120010	20	3 28.2	20.4
246387 2007 UF_{24}	16.7	X	30.27055	290.83937	67.00258	6.79685	0.1037312	0.23341271	2.6124804	20	12 18.6	20.0
246388 2007 UX_{25}	15.9	X	44.76841	219.99127	213.86207	9.57610	0.0805044	0.17120249	3.2121513	20	—	—
246389 2007 UY_{29}	15.2	X	41.45700	21.27422	47.34272	19.27555	0.1720786	0.17167674	3.2062330	20	—	—
246390 2007 UE_{34}	16.7	X	75.96818	327.56046	152.68659	7.40250	0.0458669	0.27060670	2.3672476	20	3 24.3	19.4
246391 2007 UW_{39}	15.7	X	214.73592	194.78153	147.84657	8.49190	0.1522943	0.19348119	2.9605805	20	3 20.2	20.5
246392 2007 UT_{46}	16.6	X	348.50798	297.32993	76.05021	3.44285	0.0753195	0.22656284	2.6648756	20	11 4.3	19.8
246393 2007 UV_{46}	17.0	X	152.09677	249.67779	193.63062	4.31805	0.1070087	0.27489931	2.3425396	20	5 19.3	20.4
246394 2007 UL_{47}	16.2	X	65.19338	306.62995	28.47007	5.07101	0.2352169	0.23620702	2.5918360	20	—	—
246395 2007 UQ_{52}	16.4	X	51.32403	258.92378	77.17696	12.19012	0.2223729	0.23328316	2.6134476	20	—	—
246396 2007 UF_{55}	15.5	X	197.93549	49.87472	225.30493	14.44846	0.1823465	0.17501162	3.1653722	20	—	—
246397 2007 UK_{56}	15.5	X	308.08484	196.57396	47.52645	16.79921	0.0540350	0.18796544	3.0182187	20	3 20.6	19.9
246398 2007 UN_{60}	16.1	X	68.88315	288.57233	162.57772	0.28498	0.1298977	0.17822672	3.1271893	20	2 25.3	20.1
246399 2007 UN_{61}	16.6	X	352.78867	53.40220	247.44625	3.39868	0.0431477	0.21530035	2.7570178	20	7 28.9	20.2
246400 2007 UG_{73}	17.5	X	197.43078	44.10687	235.91557	1.36445	0.1737699	0.25648177	2.4533813	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
246401 2007 UH_{79}	16.3	X	254.65385	265.87520	122.44503	4.65411	0.1036309	0.20926618	2.8097651	20	6 29.2	20.4
246402 2007 UB_{81}	15.1	X	88.75310	248.03037	35.53362	10.64343	0.0724920	0.15606812	3.4165930	20	11 6.1	20.2
246403 2007 UA_{87}	16.4	X	29.85629	98.26672	218.47580	8.99999	0.0877591	0.22305393	2.6927506	20	10 20.3	19.7
246404 2007 UX_{88}	16.2	X	2.87333	83.22238	227.01464	5.26783	0.0337065	0.21503289	2.7593034	20	8 23.9	19.8
246405 2007 UH_{96}	15.7	X	200.08246	276.68798	49.06537	11.50150	0.0275892	0.18215626	3.0820522	20	2 21.7	20.4
246406 2007 UO_{99}	15.2	X	140.68330	313.59365	69.09926	10.25256	0.0898413	0.18351438	3.0668272	20	2 27.8	19.9
246407 2007 UE_{101}	16.0	X	4.71802	101.03829	238.97018	12.01008	0.2025697	0.22366120	2.6878742	20	10 27.9	19.0
246408 2007 UR_{113}	16.7	X	57.78369	335.60987	275.09240	3.79956	0.0609720	0.21384631	2.7695011	20	8 25.6	20.5
246409 2007 UN_{114}	16.1	X	280.67558	310.98089	345.28957	2.53231	0.1511261	0.19672505	2.9279452	20	3 27.3	20.3
246410 2007 UH_{115}	16.0	X	336.11721	220.27660	42.64710	10.16038	0.1378816	0.19902155	2.9053780	20	5 5.0	19.3
246411 2007 UK_{125}	16.9	X	308.25163	203.48240	123.17813	6.00748	0.1489123	0.29114257	2.2545796	20	6 17.1	19.0
246412 2007 UV_{125}	15.0	X	84.75377	281.35279	129.42156	19.40583	0.2095635	0.17839870	3.1251792	20	2 9.5	19.2
246413 2007 UF_{136}	15.9	X	128.32568	190.62154	85.05515	14.21611	0.1326078	0.23854908	2.5748438	20	12 25.6	20.0
246414 2007 UQ_{137}	15.5	X	274.03499	25.73192	232.96626	27.03054	0.0716597	0.18297402	3.0728623	20	2 4.6	20.6
246415 2007 VQ_{1}	15.8	X	116.28253	281.43999	163.12136	4.04323	0.1712965	0.18689919	3.0296870	20	4 21.5	20.3
246416 2007 VA_{4}	16.9	X	289.04145	28.36167	257.59443	5.74741	0.1164186	0.27567200	2.3381603	20	3 20.0	20.1
246417 2007 VO_{7}	16.8	X	22.03500	193.29796	276.40967	4.06742	0.1065234	0.25237502	2.4799246	20	—	—
246418 2007 VR_{25}	16.0	X	77.67647	176.02015	287.85366	2.28148	0.1000088	0.18765638	3.0215318	20	3 17.9	20.1
246419 2007 VH_{31}	15.4	X	275.55563	256.44230	15.06043	11.32781	0.0255541	0.18868941	3.0104935	20	3 12.1	19.6
246420 2007 VN_{31}	16.6	X	10.90424	319.90840	320.99147	3.95471	0.0282112	0.21134501	2.7913099	20	7 28.8	20.3
246421 2007 VC_{32}	15.8	X	45.29602	252.00948	254.64974	7.35625	0.0586323	0.18767569	3.0213245	20	3 19.6	20.0
246422 2007 VB_{47}	16.3	X	71.44648	316.86219	346.36082	4.19605	0.1924581	0.23288744	2.6164072	20	12 8.4	20.3
246423 2007 VF_{47}	15.9	X	341.71025	181.97938	313.54512	4.28627	0.0199771	0.17113551	3.2129894	20	—	—
246424 2007 VJ_{48}	15.4	X	87.33787	136.48658	312.68500	5.15606	0.0233194	0.18368764	3.0648984	20	3 1.7	19.8
246425 2007 VR_{53}	16.3	X	171.54476	225.90173	169.44118	3.40562	0.0371076	0.19021845	2.9943389	20	4 8.5	20.7
246426 2007 VA_{54}	16.1	X	48.82158	156.59998	116.36547	4.49673	0.0676008	0.21598721	2.7511696	20	9 17.2	19.8
246427 2007 VK_{56}	17.0	X	282.42687	195.15362	93.13194	5.91064	0.1960985	0.27423044	2.3463472	20	3 10.3	20.3
246428 2007 VD_{65}	16.1	X	309.43753	114.17000	259.05410	3.52201	0.0911073	0.21391557	2.7689033	20	8 27.2	19.6
246429 2007 VY_{84}	15.7	X	144.36858	8.99369	31.00839	8.08873	0.2292862	0.18583404	3.0412529	20	3 30.9	20.8
246430 2007 VT_{86}	16.1	X	324.88113	22.12545	343.84216	5.74368	0.0333177	0.21998411	2.7177437	20	9 16.0	19.6
246431 2007 VP_{87}	15.3	X	196.72033	28.24178	292.09567	7.87296	0.0281564	0.18125176	3.0922972	20	2 4.7	19.8
246432 2007 VC_{89}	15.3	X	47.49347	321.13149	14.32841	12.65391	0.2797407	0.23331476	2.6132116	20	—	—
246433 2007 VA_{90}	16.8	X	265.70602	232.43267	96.32987	6.31901	0.1254123	0.27807009	2.3246979	20	4 22.8	19.9
246434 2007 VH_{91}	15.8	X	337.66632	296.30171	332.16017	5.26544	0.0335957	0.20131143	2.8833039	20	5 22.7	19.6
246435 2007 VQ_{112}	16.3	X	347.76070	241.58164	64.03421	1.35261	0.0571106	0.20903191	2.8118640	20	7 28.9	19.9
246436 2007 VL_{116}	16.4	X	333.76201	134.74057	202.67312	14.19766	0.1314683	0.21758213	2.7377087	20	8 13.5	19.7
246437 2007 VO_{125}	16.7	X	111.94668	306.73261	116.45545	7.58488	0.1561680	0.26154845	2.4215937	20	3 15.5	19.9
246438 2007 VD_{141}	16.0	X	250.02501	186.86202	23.59256	11.00787	0.0701188	0.16918311	3.2376611	20	—	—
246439 2007 VT_{153}	17.3	X	48.38403	33.70167	282.92855	1.83996	0.0961442	0.23237827	2.6202277	20	11 17.5	20.6
246440 2007 VG_{154}	16.8	X	125.61720	104.20478	156.95035	2.77064	0.0516213	0.23610333	2.5925948	20	12 4.3	20.5
246441 2007 VF_{158}	16.7	X	132.65515	180.40574	100.70985	5.29099	0.1971605	0.23901174	2.5715199	20	—	—
246442 2007 VZ_{161}	15.2	X	73.14354	172.23431	258.32146	11.25257	0.0384807	0.17459319	3.1704277	20	1 23.1	19.7
246443 2007 VH_{185}	15.4	X	131.09208	4.07156	59.21300	17.38238	0.0842429	0.18540905	3.0458985	20	4 8.7	20.1
246444 2007 VJ_{185}	15.7	X	118.25018	199.99193	242.34939	7.30617	0.0971574	0.18529693	3.0471270	20	4 8.9	20.0
246445 2007 VK_{185}	15.6	X	88.66986	254.73564	160.15669	9.50643	0.2267939	0.17647117	3.1478948	20	2 21.1	19.8
246446 2007 VQ_{185}	16.3	X	20.40700	18.20184	276.48288	4.41325	0.0510408	0.21383944	2.7695604	20	8 30.1	19.8
246447 2007 VB_{190}	15.4	X	88.21958	326.64714	64.12439	19.38057	0.2117235	0.17292408	3.1907962	20	1 24.2	20.0
246448 2007 VV_{192}	15.2	X	126.67296	295.18460	101.28537	14.83166	0.0680031	0.17244033	3.1967609	20	2 27.3	20.0
246449 2007 VZ_{209}	16.9	X	172.15722	34.26286	184.72807	4.60496	0.1278214	0.23710211	2.5853088	20	11 29.6	20.8
246450 2007 VJ_{212}	16.6	X	42.73543	103.96446	151.86932	4.00513	0.0448314	0.20999767	2.8032365	20	8 10.2	20.1
246451 2007 VY_{225}	16.5	X	116.47329	234.12381	47.40556	3.85994	0.1188422	0.23673360	2.5879911	20	12 21.1	20.5
246452 2007 VP_{229}	16.3	X	262.71736	320.56243	0.89720	1.56490	0.0457014	0.19456658	2.9495599	20	4 21.0	20.3
246453 2007 VH_{238}	16.1	X	222.38304	184.06201	192.78965	1.44474	0.0893575	0.19935604	2.9021273	20	5 9.9	20.5
246454 2007 VL_{241}	16.7	X	9.77657	211.15898	165.87534	8.34564	0.1332311	0.23251837	2.6191751	20	12 19.9	20.0
246455 2007 VE_{242}	15.8	X	125.00574	324.48348	124.02870	10.18278	0.1423601	0.19013477	2.9952174	20	5 4.9	20.5
246456 2007 VF_{243}	15.1	X	252.18943	182.35567	140.98085	13.50791	0.1188474	0.17524865	3.1625174	20	4 8.5	20.0
246457 2007 VU_{244}	16.5	X	20.31273	68.64765	260.00328	4.38019	0.0640022	0.22236125	2.6983399	20	10 18.0	19.9
246458 2007 VT_{245}	14.8	X	295.46030	300.68294	273.87066	11.92852	0.1069602	0.17786684	3.1314061	20	1 13.1	19.2
246459 2007 VV_{251}	15.4	X	111.60497	297.27647	105.92535	11.08241	0.2336052	0.17845837	3.1244825	20	3 8.8	20.3
246460 2007 VD_{255}	17.7	X	183.35317	32.49036	290.92410	1.39456	0.1907858	0.26719322	2.3873665	20	1 22.3	21.3
246461 2007 VU_{268}	15.5	X	162.32307	314.12850	69.82516	16.94346	0.0924003	0.18611365	3.0382061	20	3 27.4	20.4
246462 2007 VJ_{274}	16.3	X	134.22523	171.56722	90.72763	6.49917	0.1464734	0.23397265	2.6083107	20	12 14.6	20.5
246463 2007 VM_{276}	15.5	X	226.00133	67.37514	265.37965	7.71867	0.0998460	0.19360822	2.9592854	20	3 15.7	20.2
246464 2007 VR_{298}	15.7	X	137.83821	252.19921	147.35745	19.54176	0.1380994	0.18589738	3.0405621	20	3 18.6	20.5
246465 2007 VS_{301}	14.8	X	113.35166	273.74214	109.47461	28.24570	0.0697561	0.17812794	3.1283453	20	1 22.1	19.2
246466 2007 VG_{306}	16.0	X	15.57278	186.55578	127.03194	5.86658	0.1016841	0.20698038	2.8304138	20	9 26.9	19.5
246467 2007 VG_{310}	15.8	X	74.41921	0.06007	93.86709	8.22571	0.0967720	0.17855074	3.1234049	20	3 6.7	20.0
246468 2007 VU_{310}	15.9	X	113.19228	1.86573	99.45667	3.08064	0.0634153	0.18850181	3.0124906	20	4 25.7	20.2
246469 2007 VC_{317}	15.4	X	198.33426	244.34253	113.72939	14.90701	0.3493400	0.18257282	3.0773624	20	3 27.3	21.4
246470 2007 VG_{330}	16.7	X	262.08268	324.67853	181.84225	2.04813	0.0766292	0.23049256	2.6344995	20	12 19.9	19.9
246471 2007 WP_{7}	15.5	X	89.16448	50.37887	49.69978	11.91761	0.0599249	0.18342247	3.0678517	20	3 29.3	19.9
246472 2007 WE_{15}	16.0	X	130.47844	341.16480	89.78682	4.78177	0.0763742	0.18686581	3.0300478	20	4 10.8	20.5
246473 2007 WK_{17}	16.2	X	215.84302	264.35028	140.30236	2.70706	0.0314100	0.20015288	2.8944196	20	6 11.6	20.2
246474 2007 WZ_{21}	16.0	X	336.43254	267.59469	354.17726	5.89330	0.0505613	0.19857236	2.9097578	20	5 10.2	19.9
246475 2007 WL_{28}	15.3	X	307.66213	338.53180	222.76552	11.58734	0.0640779	0.17589964	3.1547098	20	1 16.4	19.9
246476 2007 WH_{39}	15.4	X	189.56726	257.08991	115.41915	12.72628	0.2389702	0.19243008	2.9713518	20	4 6.4	20.8
246477 2007 WD_{40}	15.7	X	247.71922	233.08396	36.75736	11.28545	0.0314646	0.17896578	3.1185740	20	2 8.2	20.4
246478 2007 WP_{41}	16.9	X	30.06315	231.92822	96.56772	2.86641	0.0893347	0.22462981	2.6801419	20	11 7.3	20.2
246479 2007 WA_{59}	15.4	X	272.08124	315.29071	270.16858	28.85044	0.1555380	0.24264405	2.5457922	20	—	—
246480 2007 XT_{1}	16.4	X	328.23526	103.14658	245.47373	3.82561	0.0858685	0.21371129	2.7706675	20	8 23.9	19.7

Planet		H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
		m		°	°	°	°		°				
246481	2007 XB_{2}	16.4	X	243.43002	172.13754	227.54131	1.50810	0.0612074	0.20532167	2.8456372	20	7 5.7	20.4
246482	2007 XM_{2}	16.8	X	310.71021	247.63533	72.54935	3.14060	0.0758504	0.20326705	2.8647808	20	6 19.3	20.5
246483	2007 XK_{3}	16.3	X	22.49925	95.39158	300.23283	13.01622	0.0712516	0.22806958	2.6531256	20	—	—
246484	2007 XY_{7}	15.5	X	180.73500	207.50137	214.70013	12.11322	0.1005728	0.19556906	2.9394717	20	5 23.1	20.1
246485	2007 XD_{18}	15.7	X	104.85815	326.03849	112.10061	10.21993	0.1649373	0.17826614	3.1267283	20	4 4.9	20.4
246486	2007 XH_{21}	16.2	X	10.80398	287.68741	77.65894	10.13184	0.1648535	0.22559132	2.6725210	20	12 8.4	19.1
246487	2007 XR_{24}	15.4	X	199.99276	316.75949	98.25589	8.95776	0.0291796	0.19568038	2.9383568	20	6 6.2	19.6
246488	2007 XV_{30}	16.4	X	58.87420	210.90230	149.05843	4.55111	0.2121474	0.23802590	2.5786154	20	—	—
246489	2007 XA_{31}	15.6	X	27.00717	60.38482	116.37516	6.65541	0.0644760	0.17662289	3.1460918	20	4 9.4	19.8
246490	2007 XU_{56}	16.8	X	77.94938	117.18601	280.73583	0.88739	0.0879417	0.24201092	2.5502303	20	—	—
246491	2007 YE_{20}	14.9	X	301.87494	138.42487	132.28958	27.87622	0.1978826	0.17418416	3.1753891	20	3 23.8	19.7
246492	2007 YC_{43}	15.9	X	66.33943	275.40656	108.27519	12.26764	0.3219660	0.23976379	2.5661398	20	—	—
246493	2007 YV_{51}	16.0	X	307.34052	232.71493	86.25229	3.18958	0.0700335	0.19990993	2.8967642	20	6 13.3	19.6
246494	2007 YG_{52}	16.0	X	107.42013	0.76947	44.65874	0.99491	0.1487174	0.17232642	3.1981695	20	2 22.5	20.5
246495	2007 YS_{63}	16.4	X	181.19168	197.66032	92.13604	5.59541	0.0612453	0.23431352	2.6057804	20	—	—
246496	2008 AO_{17}	14.9	X	98.60029	352.38404	257.82911	2.08375	0.0816105	0.12586970	3.9432586	20	10 5.2	20.7
246497	2008 AP_{17}	14.7	X	72.82172	122.01496	148.58816	4.44090	0.0732478	0.12530665	3.9550622	20	10 1.4	20.2
246498	2008 AE_{26}	15.9	X	287.18503	197.58598	322.05624	12.92620	0.0376046	0.22813506	2.6526179	20	—	—
246499	2008 AH_{37}	16.8	X	280.53198	283.92043	118.78759	3.08516	0.0621837	0.20437661	2.8544028	20	8 29.0	20.4
246500	2008 AE_{45}	15.8	X	18.85374	301.42083	170.63366	11.58348	0.1413656	0.23180824	2.6245215	20	—	—
246501	2008 AA_{62}	15.6	X	309.95652	355.44494	314.81152	6.14030	0.2023724	0.18871298	3.0102429	20	5 15.1	19.4
246502	2008 AC_{72}	15.3	X	158.80898	267.53731	133.28272	16.03206	0.0804627	0.17952896	3.1120486	20	4 9.2	20.2
246503	2008 AQ_{117}	15.5	X	294.38776	332.01677	325.93288	9.09962	0.1323420	0.17953823	3.1119414	20	4 15.4	19.9
246504	Hualien	15.0	X	288.16691	316.25484	311.90286	12.76368	0.0998956	0.17207055	3.2013391	20	3 6.5	19.7
246505	2008 BT_{26}	14.7	X	5.12308	295.16500	308.47300	24.09590	0.3261593	0.17766698	3.1337540	20	6 9.3	17.7
246506	2008 BH_{53}	15.7	X	220.75994	10.21410	82.67069	8.56471	0.0273497	0.19198645	2.9759274	20	8 22.7	20.0
246507	2008 CB_{10}	16.4	X	132.39688	146.64454	138.87244	5.73584	0.0874439	0.21976828	2.7195229	20	—	—
246508	2008 CQ_{73}	15.6	X	94.07275	5.81776	113.18610	11.95191	0.0561036	0.17725111	3.1386537	20	4 28.1	20.2
246509	2008 CD_{89}	16.4	X	19.69973	314.78658	90.93186	6.08011	0.0530899	0.22106723	2.7088594	20	—	—
246510	2008 CE_{102}	16.4	X	13.59550	139.12752	150.87388	11.93564	0.0883076	0.19675146	2.9276831	20	8 16.6	20.1
246511	2008 CC_{131}	15.8	X	305.36279	43.25963	333.40997	9.94735	0.0869254	0.19968518	2.8989373	20	8 25.9	19.4
246512	2008 CA_{182}	15.2	X	5.17621	192.97420	121.60066	11.21655	0.1066975	0.19439886	2.9512561	20	9 11.0	18.9
246513	2008 CJ_{184}	16.2	X	55.81181	219.82755	117.03989	9.80007	0.2112272	0.21444092	2.7643791	20	—	—
246514	2008 CS_{210}	15.7	X	305.60531	164.07442	108.89308	3.59041	0.0620223	0.17200053	3.2022079	20	4 15.4	20.0
246515	2008 CK_{211}	15.7	X	2.42004	74.88377	206.00682	2.67753	0.0451971	0.18778586	3.0201427	20	7 14.5	19.6
246516	2008 CL_{212}	15.9	X	185.99444	186.81574	128.67646	13.72257	0.2112451	0.22663221	2.6643317	20	1 20.2	20.5
246517	2008 DZ_{2}	16.4	X	197.69801	88.00120	123.43268	4.31911	0.0595160	0.21895588	2.7262455	20	12 19.5	20.2
246518	2008 DK_{40}	16.0	X	112.28584	355.53245	189.03905	10.90315	0.0910158	0.18547077	3.0452228	20	8 7.8	20.7
246519	2008 DV_{46}	15.2	X	28.97471	87.78822	170.78593	16.77075	0.0833456	0.18197493	3.0840992	20	7 25.3	19.5
246520	2008 DU_{54}	15.4	X	104.20003	338.06109	6.15105	13.84696	0.1263371	0.22912717	2.6449552	20	—	—
246521	2008 EC_{78}	15.2	X	320.35778	298.11940	14.70396	15.82476	0.0978342	0.17850927	3.1238886	20	6 19.8	19.5
246522	2008 EO_{91}	14.7	X	158.21957	311.12559	116.08818	22.43833	0.1761147	0.17578605	3.1560687	20	5 17.4	20.3
246523	2008 EV_{120}	13.2	X	258.56769	119.35074	179.59244	12.45128	0.0407801	0.08239290	5.2304958	20	3 28.9	20.2
246524	2008 EX_{142}	15.3	X	319.80738	242.08076	80.23995	14.72467	0.0300618	0.18302181	3.0723274	20	7 9.6	19.6
246525	2008 FR_{32}	16.4	X	72.75837	150.50085	180.92764	4.10192	0.0731948	0.21341957	2.7731917	20	12 27.7	20.3
246526	2008 FA_{61}	16.1	X	167.58806	317.83357	191.54968	6.82536	0.0980444	0.18685210	3.0301960	20	8 23.7	20.9
246527	2008 FA_{95}	13.0	X	239.73888	260.01630	82.66343	7.18045	0.0521578	0.08223613	5.2371409	20	4 26.9	20.1
246528	2008 FQ_{129}	16.3	X	229.02413	278.36621	207.87395	2.80065	0.0867107	0.19745493	2.9207254	20	10 3.5	20.5
246529	2008 GW_{66}	15.0	X	275.56700	349.14750	28.92562	11.56402	0.2915998	0.18069002	3.0987029	20	6 12.7	19.7
246530	2008 GC_{106}	13.1	X	262.34563	121.09705	194.29217	24.68267	0.1005491	0.08264350	5.2199167	20	4 13.2	20.1
246531	2008 GW_{134}	15.1	X	131.86490	302.24582	221.17721	8.21310	0.0258749	0.18160326	3.0883057	20	7 28.5	19.7
246532	2008 HL_{37}	15.6	X	307.31180	169.32166	142.28969	10.09612	0.0802966	0.17459279	3.1704325	20	6 3.8	20.0
246533	2008 HT_{41}	13.8	X	296.74140	197.62542	105.69719	0.98898	0.0905163	0.08309088	5.2011632	20	5 9.1	20.6
246534	2008 KG_{43}	13.1	X	216.67180	246.50130	139.89657	16.95379	0.0498974	0.08151642	5.2679219	20	5 24.1	20.4
246535	2008 MN_{5}	14.8	X	6.15030	304.28475	30.11755	21.19651	0.2668601	0.17010041	3.2260107	20	10 19.8	18.0
246536	2008 NQ_{2}	17.1	X	55.86735	232.01216	169.65046	9.22870	0.2306895	0.27841888	2.3227560	20	—	—
246537	2008 PQ_{10}	17.0	X	59.54268	214.57190	137.73330	5.73526	0.2246165	0.26863210	2.3788339	20	—	—
246538	2008 QF_{6}	15.7	X	336.62692	116.88253	302.27122	16.00719	0.1808659	0.17651126	3.1474181	20	12 5.1	19.4
246539	2008 RF_{8}	16.3	X	300.24317	311.92168	208.07567	6.00751	0.0641709	0.19181219	2.9777295	20	—	—
246540	2008 RW_{39}	17.1	X	82.04524	344.25414	349.96987	3.68358	0.2091330	0.26790224	2.3831524	20	—	—
246541	2008 RU_{46}	16.4	X	235.86185	85.65155	5.45831	12.23382	0.0668051	0.24099423	2.5573978	20	9 8.6	19.8
246542	2008 RW_{64}	16.0	X	215.04495	304.07445	27.97807	4.67068	0.0728396	0.21419629	2.7664835	20	3 8.8	20.1
246543	2008 RM_{80}	17.3	X	39.33118	236.38762	198.96379	6.39140	0.0995673	0.28040084	2.3117978	20	—	—
246544	2008 RV_{80}	15.9	X	137.47513	240.47590	255.89125	10.72849	0.0574585	0.21717306	2.7411455	20	7 6.1	19.9
246545	2008 RT_{81}	16.4	X	206.22954	69.22798	246.40117	3.29433	0.0603684	0.21083954	2.7957694	20	2 6.0	20.6
246546	2008 SM_{12}	13.1	X	328.03314	41.92975	353.30886	7.76924	0.0890277	0.08230937	5.2340338	20	10 1.1	19.6
246547	2008 SS_{12}	16.8	X	284.20308	290.14216	217.77022	2.02925	0.0979150	0.26755558	2.3852105	20	—	—
246548	2008 SL_{22}	16.5	X	51.14899	178.79744	211.08589	2.55378	0.1034623	0.18924349	3.0046144	20	—	—
246549	2008 SA_{42}	15.8	X	108.27826	274.23712	174.00312	13.17992	0.2059030	0.20978623	2.8051197	20	4 22.1	20.1
246550	2008 SO_{47}	12.9	X	355.82199	154.80000	203.44721	6.67849	0.2262901	0.08509707	5.1190923	20	9 30.8	18.4
246551	2008 SK_{72}	16.2	X	236.06600	217.82761	215.88431	13.63895	0.0518475	0.23425854	2.6061881	20	8 9.3	20.0
246552	2008 SR_{90}	17.6	X	62.97014	186.75239	194.51133	22.14952	0.0782921	0.35420046	1.9783508	20	—	—
246553	2008 SJ_{98}	15.9	X	132.98116	289.96306	10.48775	8.89279	0.1210331	0.18406165	3.0607452	20	—	—
246554	2008 SC_{99}	16.1	X	156.62144	3.65637	43.00121	8.94632	0.2210061	0.20948228	2.8078325	20	4 15.9	20.8
246555	2008 SO_{99}	17.1	X	203.37391	297.83887	172.50692	7.60845	0.2154105	0.23091921	2.6312534	20	8 8.1	21.6
246556	2008 SO_{102}	16.0	X	46.60068	323.33391	201.60506	3.38987	0.0207915	0.21024428	2.8010439	20	4 12.6	19.5
246557	2008 SZ_{112}	16.0	X	109.89454	30.68108	43.97941	7.91480	0.1300490	0.20523344	2.8464527	20	3 28.8	20.1
246558	2008 SR_{118}	16.3	X	241.29590	182.14320	198.91039	3.23256	0.1476110	0.22526546	2.6750977	20	5 30.3	20.4
246559	2008 SG_{142}	17.3	X	332.04901	166.17412	156.49363	2.79518	0.1085083	0.23344071	2.6122715	20	7 26.9	20.1
246560	2008 SA_{158}	13.3	X	327.52440	200.50885	196.93631	6.63192	0.0825215	0.08348109	5.1849430	20	10 4.5	19.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
246561 2008 SM_{160}	16.4	X	18.32840	249.48516	180.82601	1.71475	0.2042226	0.18315009	3.0708926	20	—	—
246562 2008 SS_{167}	16.4	X	331.87377	159.14175	196.32794	11.96462	0.1835233	0.24207956	2.5497483	20	9 12.0	18.7
246563 2008 SQ_{172}	16.5	X	169.42787	237.40990	168.00290	4.84905	0.0775650	0.21328541	2.7743545	20	4 19.7	20.7
246564 2008 SW_{180}	16.6	X	14.24824	256.91831	197.91748	3.92744	0.1351613	0.18574672	3.0422060	20	—	—
246565 2008 SY_{192}	16.7	X	138.05889	127.20805	39.21863	13.95836	0.1146206	0.23308720	2.6149122	20	8 28.5	20.9
246566 2008 SQ_{194}	16.0	X	280.23526	178.78720	206.74692	5.26749	0.2290802	0.23453736	2.6041222	20	7 10.2	19.3
246567 2008 SD_{261}	16.9	X	79.59870	329.45531	125.48363	3.10266	0.0589739	0.20158414	2.8807029	20	3 4.1	20.6
246568 2008 SO_{263}	16.3	X	191.03958	264.21305	185.52630	21.84140	0.0702041	0.22709179	2.6607358	20	7 6.9	20.7
246569 2008 TK_{19}	16.6	X	146.16229	342.08657	36.65703	2.29177	0.0556439	0.19985433	2.8973014	20	2 19.9	20.8
246570 2008 TK_{21}	16.9	X	266.44961	225.76651	222.24582	1.32978	0.1310682	0.24204768	2.5499721	20	10 3.2	19.9
246571 2008 TE_{59}	16.8	X	249.07540	121.03332	35.17902	5.94484	0.0898863	0.25738323	2.4476495	20	12 19.6	19.7
246572 2008 TS_{72}	16.8	X	11.80719	215.41324	268.91678	2.17335	0.2601102	0.18617629	3.0375246	20	—	—
246573 2008 TN_{112}	15.9	X	169.84696	182.24391	243.13968	8.45078	0.0963236	0.21749324	2.7384546	20	5 14.3	20.0
246574 2008 TV_{135}	16.3	X	11.54416	96.16089	354.14410	2.96760	0.0939935	0.18368327	3.0649471	20	—	—
246575 2008 TP_{164}	16.3	X	76.91410	273.54180	188.23790	8.60262	0.0655131	0.20146351	2.8818527	20	3 7.9	20.2
246576 2008 TY_{171}	16.3	X	205.86978	224.49174	171.00668	13.69333	0.2041534	0.21836199	2.7311865	20	5 13.4	21.1
246577 2008 TT_{176}	16.5	X	222.63237	259.19225	256.32304	2.08087	0.1255692	0.24110318	2.5566273	20	11 4.3	20.1
246578 2008 UH_{5}	14.9	X	186.61215	232.32546	168.16661	14.64372	0.2660215	0.12647190	3.9307312	20	5 5.6	21.7
246579 2008 UX_{31}	18.1	X	218.25382	272.54696	144.28548	1.79530	0.0452742	0.30993440	2.1625004	20	7 3.3	20.5
246580 2008 UM_{40}	15.4	X	357.06627	68.13293	44.16851	26.61350	0.2199294	0.17964998	3.1106508	20	—	—
246581 2008 US_{40}	16.3	X	131.49332	118.14597	247.91402	2.68633	0.0823567	0.19281354	2.9674110	20	1 21.5	20.7
246582 2008 UJ_{54}	17.4	X	128.47168	338.98374	200.09596	2.17092	0.0554670	0.31297536	2.1484699	20	8 31.5	19.9
246583 2008 UT_{71}	17.7	X	26.34726	299.63616	351.70697	3.77645	0.1632335	0.32057548	2.1143774	20	10 11.3	19.7
246584 2008 UD_{87}	17.6	X	65.49419	42.12500	46.77980	4.64302	0.1412008	0.28025839	2.3125811	20	2 2.2	19.7
246585 2008 UE_{89}	17.5	X	311.72646	132.55581	23.48223	5.01915	0.1017443	0.26699028	2.3885761	20	—	—
246586 2008 UX_{92}	16.6	X	91.17754	235.37391	93.99263	7.59638	0.1461219	0.26443398	2.4039451	20	—	—
246587 2008 UP_{93}	16.3	X	292.35085	173.94008	190.58918	14.09940	0.1166891	0.23131746	2.6282325	20	7 15.8	19.9
246588 2008 UG_{94}	16.4	X	268.91296	222.24839	192.17394	11.93727	0.1977298	0.23282089	2.6169058	20	8 6.1	20.1
246589 2008 UD_{114}	17.1	X	278.86322	164.44710	16.49938	5.43119	0.1583536	0.26560385	2.3968810	20	—	—
246590 2008 UT_{119}	15.5	X	2.54008	60.00140	28.15715	10.96289	0.0899403	0.17882930	3.1201604	20	—	—
246591 2008 UU_{144}	16.9	X	198.95376	304.16856	195.83346	2.41712	0.1074351	0.23622759	2.5916856	20	9 19.9	20.6
246592 2008 UW_{155}	16.5	X	255.46449	54.94512	51.95096	16.77368	0.1059967	0.24128558	2.5553387	20	10 22.4	19.8
246593 2008 UY_{157}	15.7	X	157.29470	298.29874	59.03724	11.39857	0.0928590	0.19596954	2.9354656	20	2 13.8	20.3
246594 2008 US_{163}	16.8	X	350.58690	314.80454	7.55950	4.75769	0.1675235	0.23939753	2.5687565	20	9 5.3	19.1
246595 2008 UJ_{246}	16.2	X	64.27375	220.17019	85.44388	8.33846	0.0480006	0.24605124	2.5222357	20	11 21.2	19.5
246596 2008 UQ_{261}	16.1	X	201.57263	208.13241	268.14158	14.37397	0.0927699	0.22979602	2.6398204	20	8 17.0	20.3
246597 2008 UK_{279}	15.1	X	213.01150	155.05043	47.18058	7.38821	0.1721684	0.17258569	3.1949656	20	12 2.5	20.1
246598 2008 UT_{316}	15.2	X	298.25409	248.83419	292.96175	11.37980	0.0908643	0.17119157	3.2122880	20	—	—
246599 2008 UO_{317}	15.8	X	313.43177	306.32930	240.02070	22.77190	0.1865702	0.27857118	2.3219094	20	—	—
246600 2008 UQ_{322}	16.6	X	232.80804	352.22803	261.86001	6.51681	0.0884515	0.27947915	2.3168777	20	—	—
246601 2008 UC_{329}	17.5	X	217.72864	40.59203	267.69373	4.87459	0.1907880	0.29143920	2.2530495	20	1 29.4	21.2
246602 2008 UF_{335}	16.2	X	84.88115	306.43770	246.46645	10.88055	0.0934025	0.21996347	2.7179137	20	7 19.4	20.2
246603 2008 UC_{346}	15.5	X	73.68302	323.79133	113.33652	11.67972	0.0896622	0.18059645	3.0997731	20	2 10.5	19.7
246604 2008 UJ_{352}	15.9	X	344.78059	262.41997	270.46917	3.46892	0.0867135	0.18120748	3.0928009	20	1 28.9	19.9
246605 2008 VR_{20}	17.6	X	286.47630	289.08801	90.86445	3.49455	0.0564358	0.31595347	2.1349480	20	8 21.4	19.6
246606 2008 VM_{21}	16.3	X	188.78913	246.41726	103.87376	3.81739	0.1103239	0.20367231	2.8609793	20	3 4.8	20.7
246607 2008 VB_{25}	16.8	X	138.73135	256.75020	185.16739	4.16873	0.0708538	0.21211499	2.7845508	20	4 30.8	20.9
246608 2008 VF_{64}	16.0	X	154.79089	305.67215	107.44976	10.55111	0.2260086	0.20936753	2.8088583	20	4 25.6	20.9
246609 2008 VL_{67}	15.2	X	202.95255	139.98750	89.39992	17.05199	0.0790632	0.17079211	3.2172947	20	—	—
246610 2008 VR_{68}	15.5	X	48.91888	163.47730	291.05882	8.82715	0.0464459	0.17751252	3.1355716	20	1 23.4	19.6
246611 2008 VE_{69}	16.8	X	124.17630	47.77979	83.00668	2.92501	0.0347027	0.21707392	2.7419800	20	6 11.3	20.4
246612 2008 VJ_{69}	16.2	X	13.27366	249.12406	50.84277	6.23022	0.0962644	0.23491347	2.6013419	20	9 9.5	19.2
246613 2008 VW_{71}	16.0	X	190.51680	22.74305	76.74022	30.04109	0.1540695	0.22224621	2.6992709	20	7 16.9	20.7
246614 2008 VK_{72}	17.8	X	195.24136	233.04296	76.64462	3.52132	0.0694415	0.27606151	2.3359604	20	1 10.0	21.0
246615 2008 VD_{79}	16.0	X	258.74803	331.78266	84.24315	8.75093	0.0373128	0.22341020	2.6898871	20	8 25.8	19.7
246616 2008 VY_{79}	17.4	X	292.38774	74.33700	151.05377	2.62610	0.1183562	0.27660260	2.3329130	20	1 6.2	20.5
246617 2008 WX_{2}	17.0	X	176.48625	120.66454	254.28024	23.00734	0.1138116	0.37429145	1.9069067	20	2 21.8	20.1
246618 2008 WF_{5}	16.8	X	161.47742	224.80755	179.55326	2.01110	0.0444758	0.20935589	2.8089624	20	4 6.8	20.8
246619 2008 WH_{16}	17.0	X	266.73199	109.45074	285.50143	2.55382	0.1626300	0.23207822	2.6224857	20	7 15.9	20.5
246620 2008 WH_{31}	16.6	X	263.94497	45.30570	9.48308	1.67159	0.0845375	0.23026213	2.6362568	20	8 21.4	19.9
246621 2008 WG_{39}	17.0	X	278.20598	196.80787	206.47452	2.18103	0.0485562	0.23343040	2.6123484	20	8 30.4	20.2
246622 2008 WO_{59}	15.6	X	75.58398	12.89720	90.31234	10.76149	0.0642599	0.19797993	2.9155597	20	3 15.1	19.7
246623 2008 WQ_{65}	16.6	X	164.26903	127.62504	57.31645	6.05845	0.0699578	0.23824898	2.5770056	20	10 14.4	20.3
246624 2008 WN_{81}	15.6	X	52.04060	330.78860	86.76498	12.43783	0.1239014	0.18127513	3.0920315	20	—	—
246625 2008 WY_{86}	17.4	X	294.62952	53.35873	222.18067	5.79960	0.1027965	0.29711469	2.2242656	20	3 13.9	20.0
246626 2008 WO_{87}	17.4	X	73.85634	128.08737	77.46823	4.83413	0.0387058	0.30924638	2.1657067	20	7 23.8	19.7
246627 2008 WK_{89}	16.1	X	222.18595	323.72162	107.53350	10.66882	0.1229836	0.21648736	2.7469306	20	7 15.6	20.2
246628 2008 WR_{91}	17.0	X	258.85983	189.79484	280.70796	2.10975	0.0783582	0.23216093	2.6218628	20	10 28.3	20.2
246629 2008 WP_{94}	16.1	X	283.19915	0.08930	87.12450	5.79085	0.2009574	0.23540673	2.5977068	20	10 20.3	18.8
246630 2008 WU_{94}	15.6	X	30.31625	28.79017	60.41736	25.88142	0.2598387	0.17946188	3.1128240	20	—	—
246631 2008 WU_{111}	15.6	X	315.41523	91.69622	68.51244	11.94456	0.0522288	0.18043943	3.1015712	20	—	—
246632 2008 WU_{125}	17.0	X	142.39083	167.83952	313.33326	1.36545	0.1689192	0.20827193	2.8187002	20	6 29.9	21.6
246633 2008 WL_{129}	17.0	X	66.61781	81.55976	247.45877	2.52705	0.1221328	0.24695515	2.5160774	20	12 31.2	20.6
246634 2008 XR_{1}	16.9	X	344.12214	199.31902	247.00389	4.06861	0.1633121	0.25536576	2.4605240	20	—	—
246635 2008 XP_{9}	15.6	X	1.95619	265.87221	180.25633	10.26073	0.0954206	0.17740127	3.1368824	20	—	—
246636 2008 XS_{16}	17.0	X	230.69609	36.04076	230.98569	3.71905	0.1259998	0.27226372	2.3576330	20	—	—
246637 2008 XF_{30}	16.9	X	277.77514	230.59039	112.50285	9.48091	0.1548154	0.30689732	2.1767438	20	5 23.8	19.5
246638 2008 XO_{38}	16.1	X	46.46546	241.25085	51.99528	4.82785	0.2550915	0.23998665	2.5645509	20	11 9.8	19.5
246639 2008 YJ_{1}	16.5	X	200.47687	36.86762	86.74865	14.57968	0.2626928	0.22463977	2.6800627	20	8 25.6	21.3
246640 2008 YR_{4}	17.1	X	345.06081	195.39160	90.02664	1.69777	0.1118032	0.29293154	2.2453909	20	6 28.8	19.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
246641 2008 YU_{8}	16.1	X	27.15378	76.39047	42.17033	6.07933	0.0931411	0.17913225	3.1166416	20	1 26.5	20.0
246642 2008 YW_{8}	16.3	X	121.43854	190.57276	115.62814	16.02180	0.1058048	0.23516255	2.5995047	20	—	—
246643 Miaoli	16.2	X	198.36269	207.05333	278.23902	3.71902	0.1895349	0.22238385	2.6981570	20	8 23.2	20.6
246644 2008 YZ_{18}	16.8	X	26.01655	167.62666	98.02273	1.84557	0.0221248	0.21365196	2.7711803	20	7 29.0	20.5
246645 2008 YD_{19}	16.2	X	86.42407	350.74875	103.24424	3.33450	0.0862520	0.18840543	3.0135178	20	3 17.9	20.3
246646 2008 YK_{19}	17.5	X	217.30901	242.95036	92.75248	1.56104	0.1090480	0.27936227	2.3175239	20	3 7.9	20.8
246647 2008 YO_{19}	16.0	X	331.14397	235.88640	301.77274	3.48178	0.0933052	0.17748336	3.1359150	20	1 16.7	20.1
246648 2008 YZ_{19}	17.0	X	208.20148	253.96063	284.16740	0.83820	0.0560594	0.23585549	2.5944107	20	11 24.3	20.6
246649 2008 YN_{21}	17.1	X	151.96177	73.02899	277.50067	1.41153	0.1454572	0.26758024	2.3850639	20	1 22.0	20.3
246650 2008 YG_{22}	15.9	X	113.62684	304.55314	121.01668	14.56753	0.1480037	0.18946334	3.0022896	20	3 28.3	20.5
246651 2008 YS_{22}	16.3	X	324.88930	313.73520	286.91854	5.44757	0.1148946	0.18918225	3.0052628	20	3 18.9	20.3
246652 2008 YU_{28}	16.8	X	297.47737	353.52960	291.63573	1.07043	0.0591363	0.20112023	2.8851310	20	4 16.5	20.7
246653 2008 YM_{33}	16.7	X	260.12732	284.31616	161.88823	2.93338	0.0516599	0.23135372	2.6279578	20	10 3.2	20.0
246654 2008 YN_{35}	16.6	X	307.10206	180.94944	103.53926	6.05889	0.2228304	0.28448306	2.2896290	20	3 31.9	19.3
246655 2008 YE_{38}	16.2	X	308.16768	118.82498	281.88867	2.45386	0.2290008	0.23644203	2.5901182	20	9 23.5	18.4
246656 2008 YA_{41}	15.4	X	20.09793	190.91858	284.59048	15.22350	0.0651852	0.17655793	3.1468634	20	1 10.6	19.6
246657 2008 YD_{45}	16.7	X	172.05115	75.79380	82.03694	3.87150	0.1633112	0.22284857	2.6944046	20	9 13.5	21.1
246658 2008 YK_{47}	15.9	X	303.57942	81.11047	96.12424	7.17020	0.1497487	0.17176044	3.2051913	20	—	—
246659 2008 YW_{49}	16.5	X	31.75452	138.34322	77.18773	3.57016	0.1481601	0.19837063	2.9117302	20	6 11.4	19.6
246660 2008 YT_{58}	16.0	X	305.07970	243.08447	92.24363	6.70191	0.0374350	0.21499605	2.7596186	20	7 7.2	19.6
246661 2008 YA_{85}	16.6	X	86.97155	302.57865	259.38125	3.12912	0.0096356	0.21429365	2.7656456	20	7 23.7	20.3
246662 2008 YV_{92}	16.2	X	166.74837	46.91092	327.39637	2.33984	0.0828795	0.19216298	2.9741046	20	3 9.4	20.7
246663 2008 YP_{101}	17.1	X	63.87620	134.43600	265.68661	4.66655	0.1285182	0.26062818	2.4272907	20	—	—
246664 2008 YW_{103}	16.1	X	161.02589	294.80016	114.88138	6.65808	0.0913377	0.19762191	2.9190799	20	4 19.2	20.6
246665 2008 YH_{105}	16.7	X	210.59598	193.97260	119.78676	13.94401	0.2655673	0.27242623	2.3566953	20	2 3.1	20.8
246666 2008 YP_{106}	16.0	X	348.43714	33.95704	109.98373	10.03183	0.0545552	0.17415311	3.1757665	20	1 3.7	20.1
246667 2008 YB_{109}	16.4	X	343.95482	202.16611	107.05686	5.60344	0.0638748	0.21341060	2.7732694	20	7 28.4	19.8
246668 2008 YS_{117}	16.4	X	172.34684	87.48563	153.02495	2.89001	0.1180357	0.24230890	2.5481392	20	12 26.9	20.3
246669 2008 YN_{126}	16.7	X	208.80199	357.22958	76.65596	1.64088	0.0467558	0.21362932	2.7713761	20	7 10.4	20.4
246670 2008 YY_{131}	16.6	X	229.79673	92.40267	350.31704	1.94442	0.1044736	0.22276089	2.6951116	20	8 11.1	20.3
246671 2008 YT_{132}	16.6	X	141.58693	220.90175	23.18802	2.15795	0.1057347	0.23493235	2.6012025	20	11 29.5	20.5
246672 2008 YZ_{132}	16.1	X	282.79206	331.33953	326.31765	4.83026	0.0463331	0.19733461	2.9219125	20	4 13.9	20.2
246673 2008 YG_{137}	15.8	X	344.34601	75.89409	114.22659	11.12958	0.0436582	0.18726055	3.0257882	20	2 25.4	19.9
246674 2008 YS_{138}	16.6	X	280.60043	327.26849	259.25526	3.86155	0.0526034	0.26486128	2.4013589	20	1 3.8	19.6
246675 2008 YH_{141}	16.6	X	74.58475	153.31121	131.11244	15.79566	0.1407385	0.22831704	2.6512082	20	11 18.2	20.8
246676 2008 YN_{151}	15.2	X	208.57865	8.56883	295.54035	21.68581	0.0433620	0.18217115	3.0818842	20	1 28.1	19.8
246677 2008 YU_{151}	16.6	X	201.35926	238.41453	162.03069	2.30873	0.0706927	0.20371033	2.8606234	20	5 18.0	20.9
246678 2008 YY_{152}	17.3	X	288.71170	254.40559	159.61891	3.42010	0.1076282	0.22876410	2.6477530	20	9 22.7	20.3
246679 2008 YE_{159}	16.6	X	213.68277	53.86576	12.44761	4.37857	0.0510621	0.21151757	2.7897915	20	7 6.4	20.6
246680 2008 YG_{159}	16.2	X	274.18379	283.66547	136.85494	22.01099	0.1529795	0.22366410	2.6878510	20	9 3.2	19.7
246681 2008 YZ_{160}	16.4	X	270.93331	271.30739	231.87413	11.19921	0.0716861	0.25687924	2.4508499	20	—	—
246682 2008 YK_{161}	15.9	X	25.58322	10.39418	278.69426	13.05414	0.0752017	0.22333217	2.6905136	20	8 29.3	19.5
246683 2008 YW_{161}	15.5	X	20.11249	34.83699	96.03454	19.33323	0.0537531	0.18043128	3.1016646	20	1 31.1	19.8
246684 2008 YJ_{162}	16.5	X	16.95711	54.57111	123.86880	2.66032	0.1148898	0.18808025	3.0169904	20	3 25.5	20.0
246685 2008 YO_{162}	16.0	X	329.49582	69.17207	116.78489	8.97066	0.0966758	0.18116249	3.0933130	20	1 23.6	19.9
246686 2008 YZ_{162}	17.2	X	202.05496	19.77005	239.61537	0.72907	0.1396928	0.25580938	2.4576785	20	—	—
246687 2009 AD	16.9	X	37.08861	108.09662	293.77024	0.47837	0.1811021	0.25592728	2.4569237	20	—	—
246688 2009 AE	16.7	X	110.56693	290.02115	106.23061	6.39881	0.1110990	0.27061502	2.3671991	20	1 26.9	19.5
246689 2009 AH_{5}	16.3	X	76.69197	159.47358	95.52160	10.04263	0.1377552	0.22503177	2.6769494	20	10 13.8	20.3
246690 2009 AD_{12}	17.3	X	194.01048	176.18897	90.59106	2.46185	0.1513998	0.25372976	2.4710893	20	—	—
246691 2009 AA_{15}	16.7	X	4.92877	300.73617	298.95523	0.95099	0.0290140	0.20125418	2.8838507	20	5 24.3	20.4
246692 2009 AG_{21}	16.0	X	23.71173	51.87326	91.35632	10.07044	0.1312222	0.18631667	3.0359987	20	2 22.7	19.7
246693 2009 AL_{21}	16.9	X	275.11860	94.53929	328.62293	2.75002	0.0933903	0.23094754	2.6310382	20	9 15.5	20.2
246694 2009 AM_{21}	16.9	X	178.46051	71.75689	79.79748	5.29306	0.1627705	0.22429189	2.6828332	20	9 12.5	21.2
246695 2009 AG_{25}	16.9	X	134.34227	260.22439	289.57696	3.57780	0.0850915	0.22143978	2.7058204	20	9 11.7	20.9
246696 2009 AN_{25}	16.4	X	33.75983	260.74965	283.46137	1.70986	0.0631672	0.19569324	2.9382280	20	4 23.5	20.1
246697 2009 AC_{26}	17.3	X	148.55440	191.71280	158.79318	1.42213	0.1912798	0.26957208	2.3733007	20	1 22.9	20.6
246698 2009 AS_{26}	15.2	X	101.71438	58.13567	304.99372	17.02484	0.1187582	0.17189362	3.2035355	20	—	—
246699 2009 AH_{30}	15.5	X	26.87839	193.53476	273.87250	10.44711	0.1351788	0.17977463	3.1092128	20	1 9.6	19.2
246700 2009 AM_{31}	16.0	X	82.23181	275.09212	151.22976	2.86917	0.0318605	0.18124857	3.0923335	20	1 30.2	20.3
246701 2009 AX_{31}	17.3	X	288.45962	193.90095	116.65076	8.05648	0.1357958	0.28895922	2.2659223	20	4 26.3	20.1
246702 2009 AU_{32}	15.6	X	219.25032	168.64868	129.98620	28.27546	0.0986340	0.17898022	3.1184062	20	2 3.4	20.3
246703 2009 AO_{33}	16.5	X	8.80969	298.68301	5.84260	1.88456	0.0605115	0.21659333	2.7460346	20	8 30.2	19.7
246704 2009 AY_{34}	15.7	X	34.30008	294.05250	130.57574	5.50682	0.1607982	0.17444245	3.1722539	20	—	—
246705 2009 AN_{36}	16.0	X	71.18958	125.17844	138.44383	6.76978	0.0299723	0.22081177	2.7109483	20	9 30.1	19.7
246706 2009 AQ_{48}	15.8	X	61.17567	268.46917	148.97655	10.45366	0.2238987	0.17918216	3.1160628	20	1 13.4	19.3
246707 2009 BM_{4}	16.8	X	48.46433	272.01862	173.61793	6.35776	0.1298503	0.26480135	2.4017211	20	—	—
246708 2009 BQ_{4}	15.5	X	1.02839	305.71148	252.87061	10.97138	0.0608275	0.19262980	2.9692977	20	3 20.5	19.6
246709 2009 BR_{6}	16.8	X	135.46628	126.44720	279.48282	9.59771	0.1013180	0.27668852	2.3324300	20	3 3.7	20.1
246710 2009 BO_{7}	16.0	X	209.71201	292.63901	148.52779	9.68486	0.1309220	0.21456791	2.7632883	20	7 13.6	20.3
246711 2009 BJ_{8}	15.6	X	70.62665	131.22889	287.24665	16.75633	0.0932290	0.17856369	3.1232538	20	1 13.2	19.5
246712 2009 BS_{10}	16.4	X	312.28536	157.53620	179.13089	5.99045	0.0383672	0.21273441	2.7791430	20	7 17.9	20.1
246713 2009 BZ_{11}	16.3	X	349.38505	170.33117	242.03974	5.69102	0.1086207	0.24394271	2.5367490	20	—	—
246714 2009 BR_{12}	16.7	X	9.61906	216.82872	249.05517	5.36372	0.0630437	0.25958822	2.4337692	20	—	—
246715 2009 BN_{16}	17.0	X	262.79324	102.98221	150.94244	6.69896	0.0891975	0.26192132	2.4192949	20	1 14.2	20.4
246716 2009 BP_{16}	15.9	X	293.73781	36.21207	168.66870	4.99032	0.0871265	0.17029019	3.2236135	20	1 4.4	20.5
246717 2009 BP_{17}	15.6	X	10.06835	229.66123	285.50754	7.39823	0.0753116	0.18199802	3.0838384	20	2 11.4	19.5
246718 2009 BV_{18}	16.4	X	352.03450	354.66862	124.14411	6.17271	0.1417890	0.17247457	3.1963378	20	—	—
246719 2009 BR_{19}	17.5	X	255.26376	198.98479	109.74202	8.79284	0.1464713	0.28140852	2.3062757	20	3 13.2	20.9
246720 2009 BP_{21}	16.1	X	282.31439	198.04221	114.90978	6.44864	0.0919464	0.19855454	2.9099319	20	5 1.1	20.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
246721 2009 BP_{24}	15.4	X	259.26425	186.84391	141.55363	12.85941	0.0570505	0.19638018	2.9313720	20	4 29.3	19.8
246722 2009 BN_{35}	15.3	X	69.60687	88.43618	331.30603	9.24609	0.0308860	0.17326179	3.1866487	20	1 9.6	19.8
246723 2009 BT_{44}	15.5	X	106.11983	267.24901	144.79611	11.25954	0.0955455	0.17938361	3.1137294	20	2 20.9	20.0
246724 2009 BZ_{45}	15.4	X	195.71401	201.69466	152.00631	16.82806	0.1009927	0.18624539	3.0367732	20	3 17.6	20.2
246725 2009 BC_{47}	15.7	X	66.96425	294.40176	152.07163	10.02608	0.1082697	0.17800225	3.1298178	20	2 13.5	19.7
246726 2009 BR_{48}	14.5	X	80.05800	274.88285	331.39692	12.24718	0.1172879	0.12597973	3.9409622	20	9 13.0	20.2
246727 2009 BE_{50}	16.9	X	63.03094	151.94680	105.78471	2.86339	0.0812255	0.21748284	2.7385419	20	9 17.8	20.7
246728 2009 BO_{52}	15.8	X	93.18938	137.18822	147.95224	15.58895	0.0889057	0.22807928	2.6530503	20	12 1.8	20.0
246729 2009 BN_{56}	16.7	X	244.88859	9.16494	75.12959	2.36586	0.1694670	0.22137379	2.7063580	20	8 23.1	20.5
246730 2009 BP_{56}	16.7	X	221.08515	150.36535	18.60172	3.30123	0.1108406	0.23881525	2.5729302	20	11 20.9	20.2
246731 2009 BV_{56}	15.6	X	282.12182	292.31682	323.89170	8.18971	0.0294377	0.18623242	3.0369142	20	2 25.8	19.9
246732 2009 BS_{61}	17.2	X	194.23155	238.30050	154.87383	5.85713	0.1202817	0.28596926	2.2816892	20	4 28.9	20.6
246733 2009 BJ_{62}	15.2	X	93.72197	70.37784	321.82089	14.41522	0.0443509	0.17642109	3.1484904	20	1 8.5	19.7
246734 2009 BB_{63}	16.4	X	75.02756	333.12724	328.19715	5.51959	0.1613773	0.23291536	2.6161981	20	12 6.4	20.5
246735 2009 BD_{63}	16.4	X	154.54625	176.93057	97.88747	4.30504	0.2048451	0.24260644	2.5460553	20	—	—
246736 2009 BV_{64}	16.4	X	125.53388	117.09790	153.79878	13.32798	0.2589215	0.22923059	2.6441596	20	12 18.5	21.3
246737 2009 BW_{67}	16.6	X	13.49442	198.43856	133.62913	2.55124	0.0778896	0.22175072	2.7032904	20	10 17.3	20.0
246738 2009 BT_{70}	16.2	X	60.10713	47.00049	45.90614	2.30132	0.1500813	0.18151638	3.0892911	20	2 17.7	20.0
246739 2009 BH_{74}	16.4	X	355.96094	246.87456	113.01928	6.99034	0.0635680	0.22486696	2.6782572	20	10 29.6	19.8
246740 2009 BB_{76}	15.5	X	76.75352	306.48535	118.45107	16.15133	0.2273598	0.18193920	3.0845030	20	2 20.0	19.5
246741 2009 BF_{78}	16.4	X	16.64580	204.42299	101.48868	3.93419	0.0615335	0.21931925	2.7232335	20	9 15.1	19.8
246742 2009 BQ_{78}	16.0	X	311.02529	283.06412	315.21015	22.58500	0.2162503	0.27012581	2.3700563	20	2 2.8	18.8
246743 2009 BT_{79}	16.5	X	136.91548	151.58073	25.31590	3.70450	0.1283433	0.21731527	2.7399494	20	9 2.8	20.7
246744 2009 BS_{82}	15.9	X	294.26382	330.88936	103.27537	15.45596	0.0351945	0.23138281	2.6277376	20	11 11.5	19.5
246745 2009 BA_{83}	15.6	X	17.73583	83.95645	57.58313	10.68128	0.1864332	0.17833846	3.1258829	20	2 12.1	19.1
246746 2009 BY_{98}	16.4	X	179.96788	84.71215	17.00373	3.59039	0.0220763	0.21187504	2.7866527	20	7 13.2	20.2
246747 2009 BJ_{115}	15.9	X	303.89573	120.05813	116.30614	26.30568	0.3311093	0.17880848	3.1204026	20	1 20.1	20.6
246748 2009 BZ_{124}	16.9	X	317.11506	47.24705	339.98499	3.78212	0.0832846	0.22201337	2.7011578	20	9 30.9	20.0
246749 2009 BB_{129}	15.4	X	185.25234	328.67842	350.22988	21.86843	0.1355582	0.17191738	3.2032404	20	2 3.7	20.8
246750 2009 BV_{133}	16.9	X	233.45894	336.99997	144.99563	2.68825	0.0209780	0.22832306	2.6511616	20	10 19.5	20.3
246751 2009 BL_{136}	17.2	X	74.66493	225.77409	167.56487	2.31506	0.1679771	0.25972069	2.4329416	20	—	—
246752 2009 BK_{142}	15.9	X	240.73047	323.48128	340.81625	5.42804	0.1787213	0.18353530	3.0665942	20	2 25.1	20.8
246753 2009 BJ_{149}	17.2	X	334.85351	259.92025	277.28067	2.96596	0.0414569	0.26045044	2.4283950	20	1 12.3	19.9
246754 2009 BK_{152}	16.4	X	111.87576	24.63570	66.74680	4.85212	0.0423685	0.19343291	2.9610732	20	4 9.2	20.6
246755 2009 BY_{153}	17.3	X	53.30992	343.25012	16.11547	2.20707	0.1121408	0.24410297	2.5356385	20	—	—
246756 2009 BM_{160}	16.0	X	177.41735	157.27061	159.28194	9.32993	0.0579453	0.17477825	3.1681893	20	1 12.8	20.8
246757 2009 BM_{175}	15.2	X	52.73966	87.90236	333.33129	24.81338	0.1846288	0.17557429	3.1586059	20	1 6.8	19.3
246758 2009 BF_{179}	15.5	X	1.69219	81.38439	64.88571	9.96826	0.0491700	0.17852390	3.1237179	20	1 25.9	19.8
246759 Elviracheca	17.3	X	83.53282	237.73049	144.38315	3.61433	0.1344146	0.26020181	2.4299416	20	—	—
246760 2009 CY_{6}	16.7	X	336.74601	172.76173	148.86734	4.77952	0.1026342	0.21274276	2.7790702	20	7 31.9	19.8
246761 2009 CT_{9}	16.2	X	359.23362	15.44195	290.19947	5.05688	0.0340108	0.21223643	2.7834885	20	8 13.3	19.8
246762 2009 CT_{13}	15.7	X	95.49395	311.79337	93.54965	11.11892	0.0914084	0.18077120	3.0977751	20	1 31.4	20.1
246763 2009 CL_{14}	16.0	X	298.50993	16.84063	202.98932	2.92860	0.1029344	0.17608964	3.1524401	20	1 24.2	20.4
246764 2009 CD_{20}	15.7	X	70.97281	100.50705	293.42837	5.30985	0.1047993	0.17309485	3.1886973	20	—	—
246765 2009 CS_{21}	16.1	X	90.31200	228.84773	263.96390	1.93815	0.0061355	0.19483789	2.9468211	20	4 26.7	20.2
246766 2009 CY_{21}	17.4	X	67.22070	233.15610	185.51425	0.83342	0.1306607	0.26192128	2.4192952	20	—	—
246767 2009 CB_{29}	16.4	X	80.30322	227.08204	118.66470	3.80548	0.0867009	0.24187787	2.5511655	20	—	—
246768 2009 CO_{30}	16.6	X	74.07162	235.65749	105.56755	4.81384	0.1382879	0.23861603	2.5743621	20	—	—
246769 2009 CA_{35}	15.3	X	231.48115	179.62992	94.25351	7.98412	0.1039810	0.17462662	3.1700231	20	1 18.3	20.2
246770 2009 CJ_{46}	17.1	X	152.13604	276.56427	137.65904	7.25655	0.0881062	0.28201686	2.3029579	20	4 10.4	20.3
246771 2009 CZ_{48}	16.2	X	272.81518	162.72596	133.43263	8.70880	0.0660257	0.19325783	2.9628613	20	4 2.7	20.5
246772 2009 CU_{50}	16.0	X	329.73280	136.75636	76.61565	6.98012	0.1133569	0.18030988	3.1030567	20	2 27.9	20.1
246773 2009 CQ_{51}	16.4	X	291.87102	172.53732	123.19368	8.21912	0.0653478	0.27974034	2.3154353	20	4 22.3	19.3
246774 2009 CH_{57}	15.3	X	283.07129	132.30531	95.81138	5.77858	0.0704108	0.17161363	3.2070190	20	1 22.4	19.8
246775 2009 DO_{6}	16.5	X	67.52783	271.79707	316.13085	1.31756	0.0463717	0.21150002	2.7899458	20	8 7.6	20.3
246776 2009 DK_{11}	15.6	X	167.74567	256.31609	142.04304	10.92373	0.1109559	0.19192302	2.9765830	20	4 14.2	20.4
246777 2009 DG_{16}	16.1	X	243.97492	307.25306	138.90673	5.51663	0.0836799	0.21923746	2.7239108	20	9 5.2	19.8
246778 2009 DK_{16}	14.9	X	350.32281	256.34281	155.26996	18.37691	0.0821282	0.14927455	3.5194830	20	12 8.2	19.8
246779 2009 DB_{20}	15.6	X	45.44130	274.33234	159.33392	13.77761	0.1289597	0.17024104	3.2242339	20	—	—
246780 2009 DK_{43}	14.9	X	161.25581	217.81372	121.06576	15.91482	0.1245393	0.17262804	3.1944430	20	1 27.9	19.9
246781 2009 DH_{49}	17.3	X	304.07411	257.45657	359.19514	4.22602	0.1985688	0.26351415	2.4095360	20	2 22.2	20.2
246782 2009 DT_{51}	15.8	X	254.74093	140.72821	22.79851	5.08715	0.0737316	0.15487267	3.4341520	20	12 11.5	20.6
246783 2009 DN_{53}	15.9	X	298.51956	169.27355	139.83472	12.77442	0.0322996	0.19715440	2.9236927	20	5 27.2	20.1
246784 2009 DA_{56}	15.9	X	229.49938	186.30097	138.57568	6.21959	0.1158668	0.18121384	3.0927286	20	3 15.4	20.7
246785 2009 DC_{74}	16.6	X	315.05450	273.94840	158.31863	10.37486	0.0701850	0.23318756	2.6141618	20	12 4.2	19.9
246786 2009 DV_{77}	15.3	X	146.92718	23.46148	166.39954	3.52245	0.1589048	0.12750912	3.9093860	20	9 18.9	21.3
246787 2009 DT_{83}	16.9	X	199.66898	38.57920	137.57409	2.82586	0.0624119	0.22228095	2.6989896	20	11 9.3	20.6
246788 2009 DC_{87}	15.4	X	156.40560	183.12922	177.33039	10.93277	0.0676540	0.17208232	3.2011932	20	2 10.8	20.4
246789 Pattinson	16.8	X	239.54700	340.00476	305.43586	4.42926	0.1775908	0.26097578	2.4251350	20	1 25.2	20.6
246790 2009 DS_{90}	16.3	X	19.85412	350.42545	200.62694	2.56899	0.0172895	0.18823601	3.0153258	20	4 11.8	20.2
246791 2009 DF_{99}	16.5	X	93.13166	158.05682	116.35170	4.23081	0.1059960	0.22051704	2.7133633	20	11 16.6	20.6
246792 2009 DD_{106}	15.8	X	107.65822	322.86695	134.54898	6.95626	0.0473394	0.18692085	3.0294530	20	4 13.7	20.1
246793 2009 DH_{110}	17.0	X	90.73082	185.21273	301.59178	4.30737	0.1670447	0.27831120	2.3233551	20	5 10.2	20.0
246794 2009 DP_{128}	15.5	X	297.58628	184.45510	63.28992	8.60077	0.1191201	0.17758991	3.1346605	20	2 28.1	20.0
246795 2009 EX_{4}	15.6	X	66.47791	270.51827	189.96561	0.53497	0.0745389	0.17573990	3.1566212	20	2 26.6	19.8
246796 2009 EP_{8}	16.3	X	281.59639	302.74960	75.89741	4.50064	0.1051615	0.20984046	2.8046364	20	7 22.9	19.9
246797 2009 EP_{9}	17.1	X	268.57191	229.96881	228.40729	1.78783	0.0102876	0.23109023	2.6299550	20	11 4.6	20.6
246798 2009 EB_{12}	15.1	X	155.10127	207.26824	164.40932	26.08756	0.0862335	0.17457274	3.1706752	20	2 24.9	19.9
246799 2009 EA_{15}	15.9	X	189.51398	227.12579	137.50659	2.76617	0.0451230	0.18336074	3.0685401	20	3 23.0	20.3
246800 2009 EX_{15}	16.9	X	171.02190	230.23113	29.57601	2.19412	0.1161311	0.23688664	2.5868763	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
246801 2009 ER_{22}	15.3	X	67.50249	272.02544	169.08637	10.26193	0.0478619	0.17055643	3.2202579	20	1 31.7	19.9
246802 2009 EN_{26}	16.4	X	154.61352	183.95844	172.14496	2.79806	0.1700406	0.25231984	2.4802861	20	2 4.5	20.1
246803 2009 FB_{1}	14.7	X	256.49275	268.65434	27.21367	22.73966	0.1452297	0.17391806	3.1786272	20	3 14.6	19.8
246804 2009 FJ_{7}	16.3	X	104.23408	158.71181	130.18888	4.40065	0.0706218	0.22596074	2.6696073	20	12 13.6	20.2
246805 2009 FH_{9}	15.9	X	80.82103	267.59630	172.48700	9.57166	0.0838618	0.17527037	3.1622562	20	2 20.8	20.3
246806 2009 FX_{25}	15.2	X	247.42792	244.10774	91.77192	17.57039	0.0539955	0.18648591	3.0341616	20	4 28.6	19.9
246807 2009 FE_{31}	16.2	X	162.27002	54.78426	185.93582	12.17209	0.2259749	0.22471036	2.6795014	20	12 10.0	21.0
246808 2009 FC_{44}	15.7	X	113.58576	295.40341	132.22351	6.67194	0.1600772	0.18026776	3.1035400	20	3 29.6	20.4
246809 2009 FP_{66}	16.8	X	43.05530	160.14169	180.01142	1.22524	0.0604201	0.22239439	2.6980718	20	12 3.8	20.4
246810 2009 FH_{73}	16.6	X	116.20951	128.23543	194.99730	1.40793	0.2088279	0.22898625	2.6460402	20	—	—
246811 2009 GJ_{3}	14.9	X	317.80475	317.54808	287.74417	16.24297	0.1758124	0.17713131	3.1400687	20	3 1.6	19.4
246812 2009 HD_{60}	15.6	X	303.33284	78.80529	192.53830	9.40235	0.0574428	0.17699137	3.1417237	20	4 9.4	20.0
246813 2009 HD_{76}	17.1	X	257.86793	217.74738	79.39964	2.36302	0.1368058	0.25991986	2.4316985	20	3 1.3	20.7
246814 2009 HE_{77}	15.6	X	255.46527	132.40299	150.28841	5.79511	0.0968403	0.16807018	3.2519381	20	2 22.2	20.3
246815 2009 HG_{82}	15.6	X	138.01546	212.76567	69.46192	13.45860	0.1456671	0.22317323	2.6917909	20	—	—
246816 2009 HP_{98}	15.6	X	25.37130	7.09747	205.72119	9.78013	0.0402010	0.18363164	3.0655216	20	5 19.6	19.8
246817 2009 KH_{1}	12.8	X	258.46430	89.66367	217.49990	26.83931	0.0174523	0.08367575	5.1768983	20	4 7.3	19.8
246818 2009 KA_{2}	16.6	X	190.69498	176.51145	89.53300	5.61832	0.1608523	0.23228592	2.6209221	20	—	—
246819 2009 LO_{2}	15.3	X	311.69683	114.33486	193.29523	17.85876	0.0958893	0.17881259	3.1203548	20	6 1.9	19.7
246820 2009 MP	15.1	X	62.61078	354.91666	263.13804	14.41971	0.0847121	0.19219999	2.9737228	20	9 5.2	19.6
246821 Satyarthi	15.8	X	25.66178	303.67757	11.23040	5.21658	0.1412546	0.18198668	3.0839664	20	10 11.6	19.6
246822 2009 ST_{53}	17.1	X	35.99291	81.69829	223.33504	6.19132	0.1300674	0.27352717	2.3503673	20	10 30.8	19.8
246823 2009 TO_{35}	14.8	X	199.54761	134.34924	57.11641	10.16463	0.0454000	0.18214493	3.0821800	20	11 20.8	19.2
246824 2009 TR_{41}	15.8	X	333.62395	220.57088	175.70316	8.39318	0.0609448	0.17870227	3.1216389	20	11 1.5	19.9
246825 2009 TK_{43}	15.4	X	150.00191	120.13469	88.41019	6.65667	0.0619233	0.17381932	3.1798309	20	10 19.5	20.2
246826 2009 TX_{45}	16.2	X	323.63028	245.24512	23.81104	12.81372	0.0618828	0.23607358	2.5928126	20	4 28.3	19.5
246827 2009 TT_{46}	16.4	X	129.92570	254.63488	130.29990	5.31526	0.1159546	0.21734015	2.7397404	20	2 13.6	20.2
246828 2009 UF_{5}	15.5	X	288.85241	146.38975	314.51717	15.26816	0.1424378	0.18021294	3.1041693	20	11 2.0	19.8
246829 2009 UF_{71}	15.8	X	350.69469	222.60388	142.86573	2.30115	0.1646168	0.17758886	3.1346730	20	10 22.4	19.2
246830 2009 UZ_{71}	18.1	X	74.35413	156.61016	225.97297	3.74930	0.1909473	0.29498024	2.2349823	20	—	—
246831 2009 UK_{81}	13.4	X	319.03738	190.35420	215.60634	11.51564	0.0781937	0.08311147	5.2003040	20	10 1.6	20.0
246832 2009 UV_{135}	15.9	X	358.03969	211.53759	143.56667	5.05309	0.1617797	0.17697824	3.1418791	20	10 22.7	19.5
246833 2009 UD_{136}	12.9	X	62.02636	228.97807	65.25737	7.78266	0.0887179	0.08353220	5.1828279	20	10 13.4	19.7
246834 2009 WJ_{10}	15.3	X	358.54477	293.03955	87.77416	17.27568	0.2344498	0.17869549	3.1217179	20	12 4.8	18.7
246835 2009 WA_{204}	16.5	X	30.80110	306.36134	174.73822	1.98963	0.1700280	0.20431991	2.8549308	20	1 29.8	19.5
246836 2009 WH_{212}	16.4	X	47.14369	104.88893	276.92918	7.52331	0.1961774	0.19174274	2.9784485	20	—	—
246837 Bethfabinsky	15.3	X	308.50011	342.98435	269.60034	8.33596	0.1611638	0.18610856	3.0382615	20	3 3.2	19.5
246838 2010 CN_{144}	16.3	X	156.85405	264.94256	214.23990	11.37490	0.2258620	0.22730283	2.6590886	20	7 10.4	21.0
246839 2010 CE_{148}	15.8	X	284.60394	329.38092	123.72948	4.43764	0.1062620	0.17177647	3.2049919	20	10 28.3	20.0
246840 2010 DW_{45}	15.8	X	149.68042	55.96911	184.87319	9.43875	0.0360343	0.15346139	3.4551743	20	11 20.9	20.9
246841 Williamirace	17.1	X	76.61051	250.71823	212.08349	2.88935	0.1662133	0.21394415	2.7686567	20	3 22.8	20.4
246842 Dutchstapelbroek	15.5	X	219.39591	322.98270	212.00986	15.37237	0.1420637	0.24015574	2.5633470	20	11 24.2	19.2
246843 2010 EE_{31}	17.0	X	7.61180	312.31765	163.71717	4.29224	0.2479561	0.18808975	3.0168887	20	—	—
246844 2010 EM_{73}	15.7	X	333.13201	144.98325	337.83779	3.74093	0.1569277	0.17250676	3.1959401	20	—	—
246845 2010 EE_{121}	16.6	X	272.76092	95.37700	76.13684	9.26342	0.1231573	0.26369293	2.4084468	20	—	—
246846 2010 EY_{126}	15.4	X	58.49064	223.32883	230.17767	8.78219	0.0852124	0.18710293	3.0274872	20	2 3.3	19.4
246847 2010 EO_{139}	16.9	X	249.69860	105.61678	131.25919	11.19477	0.1891920	0.27075079	2.3664076	20	—	—
246848 2010 EL_{140}	16.4	X	20.97335	71.76633	192.05022	9.05100	0.1790972	0.21275220	2.7789880	20	8 2.7	19.5
246849 2010 FB_{48}	16.0	X	338.58936	2.98861	124.63641	2.22010	0.1457537	0.17481084	3.1677955	20	—	—
246850 2010 FP_{55}	16.4	X	204.18177	27.88939	19.44089	4.46018	0.0695211	0.21044459	2.7992662	20	5 28.6	20.6
246851 2010 GV_{24}	15.3	X	264.42638	231.92405	82.15206	13.07587	0.0304283	0.19668002	2.9283920	20	4 22.1	19.6
246852 2010 GM_{27}	16.5	X	293.69455	257.05781	70.58376	1.38001	0.0715131	0.21031232	2.8004397	20	6 5.2	20.1
246853 2010 GU_{30}	17.0	X	204.62621	32.25663	192.03639	9.83113	0.1376831	0.25608015	2.4559458	20	—	—
246854 2010 GL_{97}	16.2	X	248.98560	55.36847	198.19124	3.02716	0.1226194	0.17494769	3.1661433	20	1 9.5	21.2
246855 2010 GY_{116}	16.3	X	262.93182	206.59465	59.84203	0.17531	0.1180386	0.18069343	3.0986639	20	2 7.3	21.0
246856 2010 GC_{117}	16.4	X	343.41135	101.45996	214.06742	3.56260	0.2018422	0.21211854	2.7845197	20	8 1.5	18.9
246857 2010 HU_{77}	16.4	X	7.45739	35.59871	35.72837	6.79085	0.0384691	0.25621928	2.4550566	20	—	—
246858 2010 HX_{78}	16.1	X	35.26854	213.00224	70.14673	11.04217	0.2176696	0.21661299	2.7458684	20	10 8.9	19.7
246859 2010 JZ_{115}	17.1	X	330.02948	170.02820	97.51924	6.84098	0.1350361	0.29160664	2.2521870	20	4 29.6	19.3
246860 2010 JK_{155}	16.7	X	247.94082	346.33580	114.22830	1.76919	0.1123639	0.23285998	2.6166129	20	9 26.9	20.2
246861 Johnelwell	15.9	X	147.15368	241.61153	238.23804	10.28817	0.1102308	0.22353641	2.6888745	20	6 29.2	20.1
246862 2655 $P–L$	15.3	X	94.93214	18.63511	11.06222	13.74616	0.2101528	0.17207878	3.2012371	20	2 2.4	20.0
246863 2697 $P–L$	17.3	X	231.89620	214.22132	147.59447	2.77771	0.2044975	0.27489212	2.3425805	20	4 20.7	21.1
246864 6379 $P–L$	17.2	X	189.25391	66.22249	261.85265	1.41286	0.2046498	0.25527193	2.4611269	20	2 3.3	21.2
246865 6770 $P–L$	17.6	X	322.10423	230.94236	156.37128	1.84558	0.1730398	0.29636976	2.2279911	20	11 1.4	18.9
246866 1356 $T–2$	16.2	X	305.42692	146.43637	175.89155	4.65738	0.2869596	0.18630883	3.0360838	20	5 13.6	20.0
246867 2057 $T–2$	16.9	X	77.17569	135.71934	231.66054	1.70752	0.2024164	0.25790764	2.4443304	20	—	—
246868 1366 $T–3$	15.4	X	111.28828	24.47163	349.66373	10.80126	0.1310923	0.16961853	3.2321179	20	1 21.4	20.2
246869 4583 $T–3$	15.6	X	272.52306	338.06958	41.78735	11.39414	0.0715751	0.17877779	3.1207598	20	7 16.5	20.1
246870 1993 RX_{14}	17.1	X	80.37109	51.14286	308.91868	1.03632	0.2254306	0.22943032	2.6426248	20	—	—
246871 1993 TL_{14}	16.4	X	113.62087	179.37537	170.37373	3.66479	0.2782103	0.23196119	2.6233677	20	1 1.3	20.1
246872 1993 TK_{23}	15.6	X	205.57265	59.76346	31.48900	13.53341	0.2657217	0.17159099	3.2073011	20	7 16.2	21.4
246873 1994 PQ_{7}	16.4	X	282.62606	195.90617	142.89240	1.39780	0.2599216	0.18385696	3.0630165	20	5 8.6	20.9
246874 1994 UE_{7}	15.8	X	256.56137	337.85362	358.90068	2.57102	0.2571091	0.17829964	3.1263366	20	4 9.9	21.0
246875 1994 WR_{6}	15.0	X	349.15740	221.19548	81.11610	18.50738	0.0604913	0.18004481	3.1061015	20	7 25.4	19.2
246876 1994 XH_{2}	16.0	X	290.60223	149.99410	175.18945	9.20895	0.1958278	0.17935937	3.1140100	20	5 12.1	20.3
246877 1995 DZ_{2}	16.4	X	315.61783	284.84669	278.06393	22.38627	0.2411556	0.27092790	2.3653763	20	—	—
246878 1995 OY_{5}	16.2	X	257.49485	197.33709	132.08738	3.23798	0.2045038	0.18817294	3.0159995	20	4 8.5	21.0
246879 1995 SB_{19}	16.2	X	104.32935	190.43139	12.61874	12.31172	0.1283759	0.23221828	2.6214311	20	9 6.6	20.2
246880 1995 SR_{54}	17.2	X	200.11165	222.66366	144.10588	1.41435	0.2248713	0.26324367	2.4111862	20	3 30.2	21.3

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		°	°	°	°		°				
246881 1995 TZ_2	15.5	X	325.50498	304.93497	5.91435	9.85377	0.0816033	0.19041693	2.9922578	20	6 29.1	19.5
246882 1996 BB_{11}	16.0	X	156.63375	328.10346	295.28670	14.36733	0.1377273	0.23282041	2.6169094	20	—	—
246883 1996 BF_{12}	16.2	X	187.96175	323.52565	352.55687	8.46501	0.1777927	0.24259675	2.5461231	20	1 21.9	20.5
246884 1996 EJ_{15}	15.3	X	308.47720	16.19112	344.83638	16.94189	0.0522424	0.17968881	3.1102027	20	8 15.5	19.5
246885 1996 GV_8	16.0	X	117.19772	337.35406	39.72994	8.70177	0.1440793	0.19742466	2.9210239	20	1 29.2	20.3
246886 1996 XY_4	16.4	X	252.90949	92.22772	271.07654	8.64332	0.2711437	0.27738810	2.3285067	20	5 3.1	20.1
246887 1996 XK_{28}	16.3	X	311.57981	94.42427	296.49760	0.70030	0.0870051	0.20091366	2.8871083	20	9 23.6	19.8
246888 1997 CE_{14}	15.4	X	306.28493	265.25914	328.05945	13.74170	0.2125642	0.16944544	3.2343186	20	2 6.6	19.9
246889 1997 EB_7	15.6	X	121.69094	281.83783	187.75912	11.54640	0.1640581	0.17948295	3.1125804	20	5 27.3	20.6
246890 1997 EF_{15}	15.6	X	198.78101	22.36220	358.49566	24.88372	0.1114756	0.17520356	3.1630600	20	4 11.2	20.8
246891 1997 JY_{10}	12.8	X	291.89206	183.30244	118.39995	18.80763	0.0299224	0.08456665	5.1404755	20	5 15.3	19.8
246892 1997 NU_5	16.6	X	50.29541	158.74730	226.82447	1.92854	0.2729925	0.22741654	2.6582022	20	—	—
246893 1997 OB_1	17.3	X	41.04896	143.22095	167.38547	3.70034	0.1984989	0.30713932	2.1756003	20	12 2.4	20.1
246894 1997 SM_6	15.5	X	346.02271	130.01952	349.10349	11.39664	0.0861569	0.18699480	3.0286543	20	—	—
246895 1997 SP_8	16.4	X	109.36103	312.35416	327.47107	3.10408	0.0680352	0.21970199	2.7200698	20	12 5.8	20.5
246896 1997 SV_9	16.4	X	308.63471	84.47546	329.80566	4.56617	0.0407875	0.21539740	2.7561895	20	10 24.5	20.0
246897 1997 SH_{15}	17.3	X	316.01372	141.04405	225.71923	4.65930	0.1913220	0.29835534	2.2180951	20	9 5.3	18.8
246898 1997 SB_{31}	16.1	X	137.88075	303.10146	326.71110	12.08329	0.1315821	0.22856376	2.6493000	20	12 26.9	20.5
246899 1997 TB_5	15.9	X	110.60051	327.83812	327.42493	10.73038	0.1784378	0.22742343	2.6581485	20	—	—
246900 1997 WB_{18}	16.0	X	157.26878	39.34662	34.10478	16.12817	0.1147195	0.19683020	2.9269023	20	5 10.4	20.7
246901 1997 WW_{55}	15.4	X	26.53088	327.53357	49.17592	11.35430	0.2073804	0.17622778	3.1507925	20	—	—
246902 1998 DT_{19}	15.6	X	39.33276	164.20949	1.94829	18.80149	0.1099680	0.18110668	3.0939484	20	4 9.1	19.6
246903 1998 DA_{22}	16.1	X	327.53624	170.76530	149.66946	12.90824	0.2158868	0.23692208	2.5866184	20	7 4.5	18.6
246904 1998 FD_{10}	16.1	X	178.00432	164.81089	354.67404	12.63369	0.1398288	0.24184870	2.5513706	20	9 21.3	20.0
246905 1998 FH_{20}	15.9	X	296.66387	49.66630	164.67348	21.28810	0.2097301	0.26228463	2.4170603	20	—	—
246906 1998 HL_{10}	15.9	X	40.47909	75.42536	21.24990	19.86070	0.1807394	0.17380202	3.1800418	20	2 1.5	19.9
246907 1998 KC_3	16.0	X	13.45583	83.84845	189.78426	15.02334	0.1799225	0.22788023	2.6545951	20	8 3.2	19.0
246908 1998 MU_1	15.5	X	241.11599	206.10230	111.36110	6.13695	0.1757259	0.17269537	3.1936127	20	3 14.9	20.6
246909 1998 QV_4	16.1	X	150.66780	352.95506	308.09174	12.45322	0.2075939	0.24253349	2.5465658	20	—	—
246910 1998 QZ_5	16.3	X	140.30794	6.75259	5.04149	5.11913	0.2700175	0.24440813	2.5335274	20	2 22.1	20.3
246911 1998 QY_{96}	15.1	X	76.23498	114.92515	321.76685	29.75513	0.3576433	0.24251675	2.5466830	20	3 3.1	18.3
246912 1998 RB_{41}	16.2	X	160.92072	355.85770	342.13394	9.30881	0.1443475	0.24592849	2.5230749	20	1 20.9	20.1
246913 Slocum	16.3	X	110.75833	96.48289	281.90615	12.15224	0.2197354	0.24337164	2.5407157	20	1 22.3	19.6
246914 1998 SZ_{124}	17.0	X	87.71876	219.49733	129.94835	2.48952	0.1907150	0.28199570	2.3030731	20	—	—
246915 1998 UK_5	16.7	X	104.06115	196.63901	187.41766	7.09110	0.1824491	0.24076686	2.5590076	20	1 16.2	20.0
246916 1998 UZ_5	15.4	X	42.45064	130.13562	203.86978	23.18441	0.1577423	0.18181908	3.0858614	20	11 30.1	20.0
246917 1998 UR_{18}	15.9	X	129.54109	141.96967	254.53196	6.48258	0.2234601	0.24340524	2.5404819	20	3 4.2	19.8
246918 1998 UN_{27}	15.6	X	222.65780	247.30158	83.76224	6.37001	0.2852673	0.20606340	2.8388045	20	3 9.1	20.8
246919 1998 UB_{42}	17.5	X	94.67979	199.07073	191.09486	5.11456	0.2655773	0.24033946	2.5620405	20	1 24.4	20.6
246920 1998 WY_3	15.7	X	40.04203	126.42264	232.73641	28.01848	0.3017986	0.22972113	2.6403941	20	—	—
246921 1998 WT_{10}	16.1	X	333.37357	204.30150	240.59088	12.03829	0.2397686	0.22792977	2.6542104	20	—	—
246922 1998 WR_{34}	15.2	X	61.72077	341.41243	52.94560	15.76665	0.1377504	0.18920279	3.0050453	20	—	—
246923 1998 XW_{11}	16.2	X	131.22580	295.57028	97.74955	10.48206	0.3245202	0.24321343	2.5418174	20	3 19.8	20.6
246924 1999 AJ_1	15.9	X	100.15543	140.46751	293.05644	3.18492	0.2568902	0.23964714	2.5669725	20	3 25.9	19.5
246925 1999 BG_3	15.6	X	296.27326	85.22514	80.83395	26.36614	0.2210582	0.17973417	3.1096794	20	—	—
246926 1999 BO_{11}	16.0	X	343.74039	184.56050	335.87333	7.99289	0.2268124	0.18346029	3.0674300	20	—	—
246927 1999 BF_{32}	16.2	X	304.07921	58.40829	83.46759	2.25719	0.1429024	0.17936398	3.1139567	20	—	—
246928 1999 CV_2	15.6	X	1.33947	228.95312	326.00437	11.05586	0.0637944	0.19066439	2.9896682	20	3 17.6	19.6
246929 1999 CW_{129}	16.5	X	320.79951	323.80049	105.11482	6.26143	0.0493329	0.21949806	2.7217543	20	12 3.5	19.9
246930 1999 ET_{14}	15.7	X	122.10738	327.82097	338.65253	8.47841	0.0632184	0.17397874	3.1778880	20	—	—
246931 1999 HE_7	16.5	X	195.02236	163.57983	58.18595	0.85988	0.0151789	0.21273733	2.7791175	20	—	—
246932 1999 JR_5	16.9	X	317.59196	206.63938	67.80321	13.43162	0.2487597	0.27885775	2.3203183	20	4 3.4	19.6
246933 1999 LN_5	16.6	X	341.20194	116.37017	109.91756	22.44419	0.2475692	0.27864984	2.3214724	20	3 4.0	19.2
246934 1999 PL	15.9	X	325.33502	136.85374	262.51945	14.86699	0.2897855	0.23659149	2.5890274	20	11 4.6	17.8
246935 1999 RB_8	17.0	X	227.33428	34.77880	8.74256	8.86678	0.1133195	0.27227222	2.3575839	20	6 16.6	20.5
246936 1999 RT_{13}	15.1	X	271.84339	312.42995	347.78039	26.71880	0.2454815	0.17597691	3.1537863	20	3 11.8	20.2
246937 1999 RF_{15}	15.5	X	278.85541	359.53228	348.19001	7.33051	0.1667523	0.17975839	3.1094001	20	5 26.3	20.0
246938 1999 RU_{17}	16.5	X	283.53427	304.13932	340.73302	11.80090	0.2357289	0.26991329	2.3713002	20	2 28.8	20.0
246939 1999 RX_{30}	16.9	X	276.50692	243.57234	318.66802	16.12187	0.0640751	0.34968731	1.9953364	20	—	—
246940 1999 RK_{51}	16.6	X	252.99786	114.77796	230.21224	1.62604	0.2240810	0.27233123	2.3572434	20	4 15.9	20.2
246941 1999 RF_{100}	14.8	X	247.70435	15.89838	300.41856	29.05325	0.1903671	0.17487774	3.1669876	20	2 29.0	20.4
246942 1999 RV_{101}	16.7	X	241.85465	151.04064	232.53332	3.89576	0.2503716	0.27324864	2.3519642	20	5 23.5	20.2
246943 1999 RF_{106}	16.3	X	148.65539	85.48021	304.00988	5.34648	0.1399588	0.26141631	2.4224097	20	3 6.1	19.9
246944 1999 RD_{109}	16.0	X	201.46074	157.89234	191.00313	8.04390	0.3078575	0.21626815	2.7487865	20	3 10.4	21.2
246945 1999 RP_{116}	15.1	X	283.05771	60.56952	300.19369	18.22765	0.3036034	0.18178242	3.0862762	20	5 28.9	19.9
246946 1999 RC_{133}	15.4	X	255.53551	24.91034	317.39407	14.09988	0.2721949	0.17687351	3.1431193	20	4 7.7	20.9
246947 1999 RW_{141}	16.0	X	319.85839	130.11846	204.69759	2.82834	0.2632871	0.18438389	3.0571780	20	6 28.4	19.3
246948 1999 RB_{142}	17.3	X	226.49972	184.03132	143.70366	3.20099	0.2494338	0.26578423	2.3957964	20	3 2.7	21.2
246949 1999 RE_{149}	17.1	X	220.83130	358.94526	340.22227	5.54136	0.2964604	0.26678503	2.3898011	20	3 9.9	21.5
246950 1999 RY_{185}	16.8	X	213.63673	327.49145	7.91428	1.55597	0.2058338	0.26512582	2.3997612	20	3 2.8	20.6
246951 1999 RL_{191}	14.6	X	132.62267	278.88748	38.47123	17.08894	0.1449947	0.15374716	3.4508916	20	—	—
246952 1999 RC_{201}	16.3	X	239.60037	47.37902	312.63498	13.39240	0.2225608	0.26985576	2.3716372	20	4 16.2	20.4
246953 1999 RU_{201}	15.4	X	293.37152	60.49120	279.99898	12.38938	0.2031750	0.17965419	3.1106023	20	5 31.9	19.6
246954 1999 RH_{209}	15.0	X	247.40042	163.47616	209.84882	17.77975	0.1651753	0.17566133	3.1575624	20	5 25.6	20.0
246955 1999 RV_{219}	16.3	X	195.02803	137.43514	243.71888	5.57839	0.1444973	0.26693859	2.3888845	20	4 10.7	20.2
246956 1999 RA_{242}	16.9	X	262.29725	128.94594	165.28810	3.98521	0.1765539	0.26724705	2.3870459	20	2 25.2	20.4
246957 1999 SA_4	16.0	X	285.76134	148.15534	191.23442	11.69645	0.1942332	0.22608693	2.6686139	20	5 23.2	19.6
246958 1999 SG_{21}	15.5	X	183.88416	284.64390	214.76104	7.18043	0.0872028	0.18207414	3.0829787	20	8 27.2	20.4
246959 1999 TV_3	17.2	X	169.83636	226.84046	146.52100	4.43202	0.2297192	0.26103903	2.4247432	20	3 14.8	21.1
246960 1999 TS_{20}	14.9	X	295.66440	120.57294	239.35811	9.02125	0.1067063	0.18021589	3.1041354	20	7 13.2	19.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
246961 1999 TT_{38}	15.2	X	234.65471	6.83638	11.68704	20.91608	0.1605644	0.17466870	3.1695139	20	5 11.6	20.5
246962 1999 TS_{39}	16.6	X	182.03080	199.87625	162.08341	10.36149	0.2764478	0.26113860	2.4241268	20	3 11.6	21.0
246963 1999 TG_{45}	17.1	X	254.43446	331.63909	307.34371	1.78136	0.1640919	0.26112789	2.4241931	20	1 31.6	20.9
246964 1999 TG_{61}	16.6	X	90.78457	274.82302	354.54204	10.75475	0.2847257	0.24288824	2.5440857	20	11 20.7	21.2
246965 1999 TS_{70}	15.1	X	297.76032	158.51601	26.17285	18.58751	0.0907687	0.15449545	3.4397397	20	—	—
246966 1999 TX_{79}	17.5	X	228.30577	228.12924	66.90668	2.07863	0.1827547	0.26113177	2.4241691	20	1 27.4	21.4
246967 1999 TY_{106}	15.5	X	353.51897	94.38883	225.60808	15.47851	0.3049007	0.23550804	2.5969618	20	9 13.8	17.6
246968 1999 TU_{125}	16.8	X	215.39094	353.98230	335.23028	5.26361	0.2175875	0.26341976	2.4101116	20	2 25.3	20.8
246969 1999 TV_{135}	15.3	X	281.63169	190.20166	202.21983	9.27475	0.0916971	0.18137116	3.0909400	20	8 6.2	19.7
246970 1999 TX_{138}	16.9	X	179.48754	30.18242	0.72593	1.90299	0.2115282	0.26347990	2.4097448	20	4 11.2	20.7
246971 1999 TB_{149}	14.9	X	255.41054	17.65168	353.03582	10.82547	0.1764946	0.17666961	3.1455371	20	5 25.9	19.9
246972 1999 TU_{150}	16.7	X	196.46442	307.63474	23.92964	5.81249	0.2036184	0.26049266	2.4281325	20	2 15.6	20.7
246973 1999 TA_{155}	17.2	X	192.59604	333.43129	37.84464	2.83153	0.2026467	0.26390540	2.4071539	20	3 29.8	21.2
246974 1999 TW_{155}	16.4	X	175.32174	273.38874	100.63242	4.14744	0.1863674	0.26082729	2.4260553	20	3 19.6	20.3
246975 1999 TO_{170}	16.8	X	204.86758	308.63826	22.05177	5.93325	0.2158697	0.26146543	2.4221063	20	2 21.3	20.9
246976 1999 TY_{190}	17.3	X	157.82525	79.92880	314.02594	8.63032	0.2566234	0.26077479	2.4263809	20	3 26.5	21.5
246977 1999 TO_{220}	15.0	X	251.55493	230.86264	214.63490	15.91543	0.1942908	0.18295845	3.0730366	20	8 18.7	19.9
246978 1999 TB_{221}	16.6	X	145.65998	140.27904	274.89962	9.14949	0.2119433	0.26261042	2.4150609	20	4 8.5	20.7
246979 1999 TA_{230}	15.7	X	273.78570	162.87491	214.44686	16.79219	0.2491750	0.17914496	3.1164942	20	6 15.9	20.5
246980 1999 TQ_{246}	16.1	X	337.88800	101.03225	185.04128	11.27183	0.1711861	0.22836912	2.6508051	20	6 8.9	19.0
246981 1999 TG_{247}	15.3	X	270.04205	163.29369	214.45750	17.03275	0.2112466	0.17613549	3.1518930	20	6 17.2	20.2
246982 1999 TM_{254}	15.1	X	247.79464	303.82018	97.55335	11.28270	0.2252027	0.17647145	3.1478914	20	6 22.5	20.0
246983 1999 TW_{254}	16.7	X	253.86899	227.61079	314.46889	2.66957	0.0987127	0.24510939	2.5286929	20	—	—
246984 1999 TM_{269}	16.7	X	232.95487	59.08260	276.03373	7.72733	0.1659043	0.26590172	2.3950906	20	3 16.2	20.6
246985 1999 TZ_{270}	16.6	X	228.49785	90.98757	235.65227	8.04351	0.2486293	0.26460914	2.4028841	20	2 28.0	20.9
246986 1999 TL_{274}	15.1	X	234.33284	44.97159	328.62013	13.86450	0.2491442	0.17719669	3.1392963	20	4 30.1	20.7
246987 1999 TW_{291}	14.4	X	205.04513	225.46800	227.67554	26.00936	0.1560272	0.17245446	3.1965863	20	7 13.6	20.0
246988 1999 TA_{307}	15.7	X	230.05990	192.12569	155.49090	11.65250	0.2091109	0.17541324	3.1605389	20	4 7.5	21.0
246989 1999 TP_{320}	16.4	X	154.86315	110.07486	256.17446	5.18326	0.1695629	0.25774362	2.4453673	20	2 14.9	20.2
246990 1999 UO_{27}	16.0	X	344.20408	345.14085	0.12254	5.83079	0.0813661	0.18675563	3.0312394	20	9 12.8	19.7
246991 1999 UY_{40}	15.7	X	236.51311	55.70124	23.20672	15.62487	0.2287599	0.17757706	3.1348118	20	8 2.2	21.0
246992 1999 UT_{41}	14.9	X	209.55163	82.12253	8.53207	23.92825	0.3280939	0.17240091	3.1972482	20	7 20.3	21.0
246993 1999 US_{52}	16.8	X	174.95744	209.87044	162.62705	7.75024	0.2544511	0.26037284	2.4288774	20	3 18.7	21.0
246994 1999 UF_{53}	16.3	X	165.05165	74.99824	311.27285	5.51392	0.2405645	0.26216254	2.4178107	20	3 23.6	20.4
246995 1999 UU_{58}	16.6	X	174.31047	48.27179	333.16861	6.58816	0.2390599	0.26142468	2.4223580	20	3 25.5	20.7
246996 1999 UQ_{60}	15.4	X	247.64319	63.32353	327.80471	25.60224	0.3350293	0.17576127	3.1563653	20	5 26.3	21.3
246997 1999 VG_{9}	14.9	X	263.97565	158.56226	221.85305	9.76380	0.2252738	0.17543773	3.1602447	20	6 12.9	19.7
246998 1999 VG_{16}	16.6	X	71.96533	345.80931	228.28421	7.94940	0.0748717	0.22530631	2.6747743	20	7 28.7	20.4
246999 1999 VN_{41}	16.0	X	296.16741	178.54923	199.31494	4.47623	0.2010077	0.18319718	3.0703663	20	7 24.5	19.9
247000 1999 VZ_{43}	16.9	X	168.70968	125.97801	245.56134	1.69783	0.2066395	0.26022064	2.4298244	20	3 8.8	20.9
247001 1999 VL_{60}	16.1	X	116.22395	20.14983	44.02262	9.00384	0.2221171	0.20943090	2.8082916	20	4 2.7	20.4
247002 1999 VF_{64}	15.0	X	191.63208	74.95057	47.65525	17.95596	0.1571428	0.17756611	3.1349407	20	8 22.3	20.4
247003 1999 VJ_{79}	15.3	X	314.86007	282.87237	43.85061	11.06649	0.1198943	0.17736404	3.1373214	20	6 28.0	19.4
247004 1999 VF_{106}	16.8	X	202.87555	312.77275	21.96525	1.45404	0.2069065	0.25912635	2.4366603	20	2 22.9	20.7
247005 1999 VQ_{120}	16.4	X	274.70174	299.54105	58.31906	5.00991	0.1072787	0.22522731	2.6753997	20	6 14.1	19.9
247006 1999 VK_{127}	17.3	X	177.79669	188.87588	183.38166	3.05731	0.2206885	0.26209808	2.4182071	20	3 18.4	21.4
247007 1999 VG_{144}	14.9	X	247.39861	158.41056	253.64590	8.36234	0.0770150	0.17686120	3.1432650	20	7 21.2	19.5
247008 1999 VY_{147}	15.1	X	232.08048	147.42046	223.17613	10.57608	0.1488526	0.17282643	3.1919979	20	5 8.1	20.1
247009 1999 VG_{154}	16.6	X	181.14694	328.16981	44.14350	5.43426	0.0264988	0.21191761	2.7862795	20	3 21.4	20.6
247010 1999 VM_{178}	15.8	X	274.75307	295.73577	79.00657	10.86421	0.2333271	0.17781383	3.1320284	20	6 16.7	20.3
247011 1999 VU_{191}	16.9	X	169.95938	124.56815	221.22469	4.14912	0.2091155	0.25558183	2.4591371	20	2 7.5	21.0
247012 1999 VL_{192}	16.1	X	90.89164	136.35849	275.91922	5.42816	0.1330611	0.25297517	2.4760008	20	1 25.3	18.9
247013 1999 VU_{197}	16.4	X	207.36169	159.28622	170.74066	9.30212	0.2109158	0.26104241	2.4247223	20	2 19.1	20.6
247014 1999 VH_{201}	14.9	X	300.01339	350.55670	2.32030	16.86055	0.1027116	0.17900056	3.1181700	20	7 17.7	19.3
247015 1999 VG_{218}	15.1	X	281.00259	292.48311	74.46932	13.03799	0.2382772	0.17731252	3.1379290	20	6 13.4	19.4
247016 1999 WE_{12}	15.7	X	25.62938	157.05765	247.58212	9.85608	0.1097190	0.19283002	2.9672419	20	—	—
247017 1999 XQ_{9}	16.5	X	185.75646	82.34181	228.21806	5.52748	0.1411834	0.25233942	2.4801578	20	1 7.4	20.4
247018 1999 XE_{48}	15.1	X	249.81266	314.65071	66.62200	23.14809	0.0999006	0.17270758	3.1934622	20	6 11.8	19.8
247019 1999 XJ_{55}	12.3	X	329.90020	295.35737	67.32981	36.68568	0.0238780	0.08512982	5.1177795	20	9 24.2	19.5
247020 1999 XM_{108}	15.4	X	252.44885	356.69051	54.53022	9.35952	0.1811840	0.17665194	3.1457468	20	7 15.7	20.2
247021 1999 XH_{199}	15.3	X	95.61380	5.47791	50.69995	16.15415	0.1284389	0.20298910	2.8673953	20	2 22.6	19.5
247022 1999 XW_{200}	15.1	X	330.35761	213.51208	309.07444	8.78674	0.1721740	0.24390201	2.5370311	20	—	—
247023 1999 XG_{238}	16.9	X	181.75881	285.70899	74.75739	3.25002	0.2215625	0.25831009	2.4417909	20	3 9.4	21.0
247024 1999 XR_{255}	16.2	X	278.72389	46.37546	96.22869	6.49842	0.1207967	0.23417408	2.6068147	20	—	—
247025 1999 YL_{7}	16.6	X	299.71100	68.47781	80.68899	11.97484	0.0668480	0.24275153	2.5450407	20	—	—
247026 1999 YX_{16}	16.3	X	163.30463	329.52743	302.81491	8.00413	0.0759870	0.23590399	2.5940551	20	—	—
247027 2000 AV_{25}	15.3	X	244.33707	106.60693	294.76188	13.02058	0.2756090	0.17168494	3.2061308	20	6 14.7	20.6
247028 2000 AZ_{70}	15.0	X	269.66832	120.17036	243.28216	11.51152	0.3335769	0.17455364	3.1709066	20	5 15.9	20.0
247029 2000 AX_{92}	17.1	X	81.79153	51.52946	292.47362	20.61429	0.1407512	0.38316187	1.8773613	20	—	—
247030 2000 AS_{140}	15.8	X	358.90546	312.25817	118.95696	28.60602	0.1486561	0.23736419	2.5834055	20	—	—
247031 2000 AW_{214}	15.6	X	229.83055	316.31292	92.66133	2.79532	0.1713749	0.17142104	3.2094206	20	6 19.5	20.8
247032 2000 BY_{12}	15.4	X	115.32826	20.53560	344.71756	2.87152	0.0895173	0.14384793	3.6074498	20	1 11.9	20.7
247033 2000 BN_{43}	16.4	X	150.57561	313.24581	310.16594	4.61666	0.2186063	0.23024585	2.6363810	20	12 27.8	20.8
247034 2000 CH_{76}	16.0	X	285.52715	207.13763	335.49418	6.12861	0.0533192	0.23818246	2.5774853	20	—	—
247035 2000 DY_{24}	16.5	X	254.97847	90.42244	154.69604	9.40227	0.1840565	0.28759946	2.2730588	20	—	—
247036 2000 EA_{31}	17.2	X	15.33207	117.71233	35.65811	6.87770	0.1143390	0.29314163	2.2443180	20	1 30.5	19.3
247037 2000 EF_{72}	16.0	X	159.49644	298.96512	330.28115	13.55563	0.0964847	0.23101326	2.6305392	20	—	—
247038 2000 ET_{83}	16.2	X	284.84672	189.55805	24.11956	14.10273	0.1788797	0.23765265	2.5813146	20	—	—
247039 2000 ET_{111}	15.3	X	336.35311	76.72337	328.00462	10.71599	0.1324890	0.18013379	3.1050785	20	11 11.8	19.2
247040 2000 EQ_{116}	15.0	X	298.85457	263.45776	162.61511	17.72729	0.0742234	0.17471620	3.1689394	20	10 20.9	19.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
247041 2000 FJ_{1}	14.6	X	213.07252	76.00318	100.87775	26.81001	0.1948364	0.17642449	3.1484501	20	11 13.5	20.0
247042 2000 FB_{55}	15.9	X	165.80434	46.64023	136.15829	12.29409	0.1219720	0.21668094	2.7452943	20	10 11.3	20.4
247043 2000 GS_{11}	15.1	X	159.36205	323.20986	7.10675	26.95755	0.1025959	0.23588707	2.5941791	20	1 11.9	19.5
247044 2000 GA_{24}	15.9	X	224.58795	266.95053	8.11111	3.83968	0.1950741	0.18459282	3.0548708	20	1 9.3	21.1
247045 2000 GL_{156}	15.9	X	244.13622	198.13705	21.76770	10.40870	0.0236101	0.18231797	3.0802294	20	—	—
247046 2000 GZ_{159}	16.4	X	136.19601	220.29923	358.59298	10.87607	0.1725009	0.26496800	2.4007140	20	10 25.9	20.4
247047 2000 HB_{51}	15.7	X	283.37973	322.48714	231.38361	13.87454	0.1115428	0.23132847	2.6281491	20	—	—
247048 2000 HJ_{101}	15.4	X	203.43070	158.26887	14.68076	17.70773	0.1776742	0.17348913	3.1838642	20	10 18.9	20.5
247049 2000 HY_{101}	15.1	X	301.85086	62.21814	104.38544	10.66154	0.0754686	0.18053833	3.1004384	20	—	—
247050 2000 JR_{31}	15.7	X	274.73080	316.84940	225.23856	13.92117	0.1337501	0.18043532	3.1016182	20	—	—
247051 2000 LZ	15.7	X	81.14464	94.41950	235.11498	11.28732	0.1927691	0.21566344	2.7539224	20	—	—
247052 2000 LP_{2}	15.9	X	90.77454	47.28399	224.59545	12.72062	0.1768914	0.21269404	2.7794946	20	11 15.1	20.3
247053 2000 NV_{19}	15.4	X	266.79982	146.68694	138.23239	14.35443	0.1722303	0.18327791	3.0694646	20	2 28.6	20.2
247054 2000 OJ_{53}	16.4	X	7.86316	98.61525	245.97247	6.49873	0.2025813	0.30062064	2.2069383	20	12 3.3	18.5
247055 2000 OD_{56}	17.1	X	16.96787	51.58077	306.95467	3.81221	0.2001546	0.30507187	2.1854184	20	—	—
247056 2000 QW_{1}	16.0	X	342.91554	102.40446	268.40976	22.66507	0.2675455	0.29818316	2.2189489	20	12 8.8	17.5
247057 2000 QO_{40}	17.6	X	292.24135	196.33551	184.70649	0.85151	0.2386573	0.29409238	2.2394784	20	7 27.8	19.6
247058 2000 QV_{62}	15.0	X	193.96518	210.05004	146.68290	18.19673	0.2177184	0.17788272	3.1312197	20	3 20.8	20.5
247059 2000 QC_{80}	16.0	X	262.12967	23.06790	340.61814	12.39849	0.2869592	0.23732391	2.5836978	20	5 8.7	20.4
247060 2000 QC_{99}	15.9	X	354.08942	312.34066	10.92468	11.62226	0.3199338	0.19709285	2.9243014	20	9 19.9	17.9
247061 2000 QF_{100}	16.2	X	188.94768	181.09065	154.59375	12.48885	0.2591858	0.22450792	2.6811119	20	2 15.8	21.0
247062 2000 QN_{115}	17.8	X	293.42012	84.75500	280.66376	1.88202	0.2683176	0.29202569	2.2500319	20	6 28.5	20.0
247063 2000 QY_{124}	15.4	X	169.50699	224.25563	141.48547	11.38512	0.2373681	0.17639135	3.1488443	20	3 12.3	20.9
247064 2000 QE_{156}	15.3	X	270.44622	168.08341	179.10604	14.88903	0.1068906	0.18886363	3.0086419	20	5 27.6	19.8
247065 2000 QZ_{218}	15.8	X	114.17419	333.91237	320.24899	20.10035	0.1212066	0.21196810	2.7858370	20	—	—
247066 2000 RV_{16}	17.2	X	337.67000	56.31380	266.04279	5.02276	0.2341335	0.29440909	2.2378720	20	8 12.1	18.1
247067 2000 RS_{25}	15.7	X	205.80170	350.02423	334.92959	10.04377	0.2138002	0.17649443	3.1476182	20	2 20.1	21.2
247068 2000 RJ_{28}	16.9	X	14.83074	355.72713	333.38194	5.10808	0.2372817	0.29935480	2.2131553	20	11 25.9	19.4
247069 2000 RM_{31}	16.7	X	293.47663	122.56687	247.85111	3.86772	0.1889666	0.29162477	2.2520936	20	7 21.3	18.7
247070 2000 RN_{80}	15.2	X	167.00619	31.52005	319.80699	13.16036	0.1496859	0.17346969	3.1841021	20	2 16.4	20.3
247071 2000 RG_{83}	15.4	X	247.11921	144.73633	255.65168	8.60559	0.1236428	0.18829969	3.0146459	20	7 1.8	19.8
247072 2000 RH_{87}	17.0	X	338.75272	334.19610	347.85719	5.74274	0.2019854	0.29346608	2.2426635	20	8 19.3	18.0
247073 2000 RB_{89}	16.7	X	241.83746	87.81394	297.77157	7.30332	0.1310798	0.28724826	2.2749112	20	6 7.4	19.9
247074 2000 RN_{104}	14.7	X	215.94653	69.15775	260.04617	12.08606	0.3127826	0.17794214	3.1305226	20	2 24.0	20.6
247075 2000 SB_{2}	15.0	X	150.07796	34.97793	352.35420	28.99081	0.2731542	0.17544335	3.1601772	20	3 18.7	20.5
247076 2000 SM_{15}	15.3	X	231.06221	153.11615	222.61104	9.31984	0.0998419	0.18450841	3.0558024	20	5 17.5	19.9
247077 2000 SD_{40}	17.2	X	294.06796	167.68186	153.83597	7.74612	0.2530554	0.28717802	2.2752821	20	4 29.7	20.1
247078 2000 SQ_{40}	16.6	X	352.54332	354.47917	325.27176	9.82420	0.1362767	0.29377543	2.2410888	20	9 9.8	18.4
247079 2000 SE_{52}	17.4	X	329.13170	340.74580	325.56291	6.02001	0.1914977	0.29059351	2.2574186	20	6 21.5	19.0
247080 2000 SV_{56}	16.4	X	254.97369	133.42122	187.22758	1.24151	0.2650498	0.18340477	3.0680490	20	3 20.3	21.6
247081 2000 SS_{72}	17.0	X	252.08837	275.53795	133.62652	4.87043	0.2194907	0.28852161	2.2682129	20	7 11.5	19.9
247082 2000 ST_{73}	16.0	X	272.25060	1.14141	29.95012	15.16532	0.1143834	0.23982054	2.5657350	20	8 2.2	19.6
247083 2000 SQ_{83}	15.4	X	267.25747	242.22433	160.17181	9.10385	0.0852195	0.18972653	2.9995125	20	8 3.4	19.6
247084 2000 SB_{115}	17.1	X	314.95123	355.81424	19.06596	6.70860	0.1853574	0.29421576	2.2388522	20	9 21.9	18.4
247085 2000 ST_{136}	17.0	X	89.18496	62.25554	304.27797	4.19576	0.1244623	0.26257638	2.4152696	20	—	—
247086 2000 SZ_{137}	17.0	X	249.74923	53.95820	332.84868	6.12422	0.1834968	0.28670610	2.2777782	20	6 11.9	20.2
247087 2000 SC_{145}	17.4	X	321.63992	90.02301	228.11355	2.29001	0.2848310	0.29078841	2.2564099	20	6 6.0	18.7
247088 2000 SS_{146}	17.1	X	289.00244	147.26760	207.03924	5.39218	0.1741458	0.28847336	2.2684658	20	6 20.9	19.5
247089 2000 SP_{163}	15.0	X	21.00307	321.50601	28.32857	17.94820	0.2864034	0.20208240	2.8759658	20	12 12.5	18.9
247090 2000 SH_{165}	16.5	X	277.86925	46.70341	314.23405	9.07416	0.0459497	0.28821335	2.2698299	20	7 7.2	19.2
247091 2000 SX_{177}	14.7	X	100.46011	265.19296	347.00894	7.13242	0.1230708	0.24646841	2.5193889	20	10 29.6	18.5
247092 2000 SD_{187}	17.1	X	298.68172	286.56733	72.59187	6.10684	0.2389469	0.29107852	2.2549104	20	7 4.5	19.0
247093 2000 SJ_{223}	16.1	X	318.54801	225.52332	203.33846	7.73714	0.1969230	0.20019091	2.8940530	20	11 22.0	18.9
247094 2000 SJ_{249}	17.7	X	316.63237	300.22583	30.71705	6.97613	0.2282260	0.29151650	2.2526512	20	6 28.4	19.5
247095 2000 SK_{262}	16.2	X	326.35251	182.07328	149.61373	2.86967	0.2007058	0.19270542	2.9685208	20	7 16.9	19.3
247096 2000 ST_{290}	15.8	X	69.78802	101.50502	209.72901	6.10498	0.1229342	0.20369559	2.8607613	20	12 4.2	20.0
247097 2000 SL_{294}	15.6	X	289.98437	117.25083	253.12188	13.18210	0.1912924	0.18872096	3.0101580	20	7 6.2	19.6
247098 2000 SE_{299}	16.9	X	251.16603	174.48530	229.67531	4.63120	0.1298874	0.28896547	2.2658896	20	7 15.6	19.8
247099 2000 SH_{299}	15.9	X	201.90963	138.44813	212.08785	9.56643	0.2422770	0.17728152	3.1382948	20	3 13.9	21.4
247100 2000 SE_{305}	16.7	X	279.08343	53.19854	321.82245	5.17472	0.1835713	0.28916435	2.2648506	20	7 5.8	19.2
247101 2000 SL_{314}	15.5	X	231.64334	90.92990	306.57395	15.25326	0.1977804	0.18587127	3.0408468	20	6 4.6	20.6
247102 2000 SA_{315}	12.5	X	264.55408	67.82716	268.37250	17.53712	0.0691908	0.08218412	5.2393503	20	5 10.1	19.7
247103 2000 SL_{317}	15.3	X	250.62255	9.07414	290.86549	16.33688	0.1890268	0.18053871	3.1004341	20	2 21.4	20.5
247104 2000 SY_{345}	17.4	X	313.00254	64.44839	293.98796	3.11132	0.1173833	0.29427307	2.2385616	20	8 22.2	19.2
247105 2000 SQ_{348}	15.7	X	263.18477	276.02043	96.50054	9.95842	0.2048002	0.18727660	3.0256153	20	6 5.8	20.2
247106 2000 TF_{6}	17.4	X	322.87133	300.76075	0.36232	4.05911	0.1828770	0.28864764	2.2675526	20	5 28.1	19.3
247107 2000 TE_{16}	16.0	X	240.64570	207.83410	157.06669	1.72653	0.1910556	0.18225935	3.0808898	20	5 5.9	20.9
247108 2000 TG_{58}	16.7	X	290.36957	255.22755	55.86678	6.83420	0.1562872	0.28374753	2.2935841	20	4 24.1	19.3
247109 2000 TT_{59}	16.1	X	200.73626	326.79852	100.27822	12.74377	0.2776909	0.23179365	2.6246317	20	6 12.6	20.8
247110 2000 TS_{61}	17.1	X	313.59220	144.99919	179.08477	7.65879	0.1722284	0.28843808	2.2686508	20	6 19.2	19.3
247111 2000 TZ_{63}	15.3	X	285.64293	163.97991	228.34139	13.45125	0.1590275	0.19063419	2.9899840	20	7 31.3	19.5
247112 2000 UL	15.4	X	189.76466	358.00253	61.72537	10.55821	0.0921099	0.18073203	3.0982227	20	5 28.4	20.2
247113 2000 UC_{12}	16.3	X	309.63279	298.09197	55.67519	13.79935	0.2843933	0.24269106	2.5454634	20	7 6.3	18.9
247114 2000 UA_{23}	16.9	X	272.32077	301.61762	87.89678	2.95734	0.2289750	0.28858597	2.2678757	20	7 8.8	19.6
247115 2000 UY_{43}	15.4	X	328.73282	152.85901	235.90491	11.80699	0.2390448	0.19500277	2.9451598	20	10 10.5	18.2
247116 2000 UQ_{52}	17.2	X	234.76883	185.78971	218.41096	2.43819	0.1652942	0.28377841	2.2934176	20	6 21.3	20.3
247117 2000 UJ_{63}	16.6	X	224.71474	162.61997	230.93504	7.47233	0.1205409	0.28261734	2.2996947	20	5 30.9	19.9
247118 2000 UK_{63}	15.7	X	357.14707	135.02346	228.56460	10.30267	0.1063169	0.19687512	2.9264570	20	10 29.5	19.1
247119 2000 UP_{63}	16.6	X	336.30411	118.73760	239.23803	6.00674	0.1815447	0.29467813	2.2365096	20	10 13.4	18.1
247120 2000 UJ_{70}	17.1	X	255.41363	94.43509	294.23317	2.21385	0.2389361	0.28623793	2.2802612	20	6 14.3	20.2

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		°	°	°	°		°				
247121 2000 UL_{74}	16.1	X	243.20070	272.94182	133.89644	11.67442	0.2957260	0.18372686	3.0644623	20	6 19.2	21.4
247122 2000 UF_{77}	15.6	X	277.05914	155.03782	212.02284	15.05572	0.2307163	0.18613817	3.0379393	20	6 10.2	20.1
247123 2000 UE_{96}	16.8	X	320.32499	48.64640	295.00991	4.61550	0.2128788	0.29054817	2.2576535	20	8 2.6	18.0
247124 2000 UR_{98}	16.5	X	168.23877	167.62932	259.18383	6.47087	0.2090151	0.22671545	2.6636795	20	5 17.1	21.0
247125 2000 UQ_{102}	16.2	X	169.58400	218.57328	255.94975	12.43352	0.2083531	0.23053033	2.6342117	20	7 14.8	20.8
247126 2000 UE_{103}	15.7	X	282.71612	115.82984	263.13044	8.31875	0.2177398	0.23740312	2.5831231	20	7 6.8	18.9
247127 2000 VA_{12}	17.3	X	269.34520	251.96514	120.83170	1.47104	0.2222413	0.28666905	2.2779744	20	6 11.2	20.0
247128 2000 VO_{18}	15.5	X	244.25229	196.78280	220.87079	11.92771	0.2441640	0.18405041	3.0608698	20	7 5.3	20.6
247129 2000 VQ_{33}	15.7	X	218.68189	302.10509	113.33296	5.25108	0.3605488	0.17955392	3.1117602	20	6 7.1	21.5
247130 2000 VW_{41}	16.1	X	185.58692	218.46610	251.22530	6.31198	0.1815171	0.23419866	2.6066323	20	7 24.0	20.4
247131 2000 VG_{43}	17.4	X	122.74101	15.47077	2.64911	3.11826	0.1895483	0.26624794	2.3930139	20	1 31.4	20.6
247132 2000 WV_{16}	15.2	X	231.47006	296.60729	64.19834	23.22479	0.1623118	0.17700834	3.1415229	20	5 1.1	20.4
247133 2000 WQ_{38}	15.2	X	273.20647	358.57719	89.15537	16.05018	0.1458040	0.19224839	2.9732236	20	10 10.9	19.4
247134 2000 WQ_{39}	14.3	X	139.22826	201.67705	244.19638	22.77717	0.1281524	0.17137186	3.2100345	20	5 10.9	19.4
247135 2000 WA_{72}	15.3	X	303.73543	135.52889	261.98595	12.61395	0.0765963	0.19196868	2.9761110	20	9 13.1	19.5
247136 2000 WS_{82}	14.5	X	203.98719	103.03542	256.58430	15.18387	0.1305154	0.17255915	3.1952932	20	3 24.2	19.9
247137 2000 WR_{92}	17.4	X	278.68762	115.26247	252.12238	2.05611	0.2028096	0.28559644	2.2836744	20	6 19.4	20.2
247138 2000 WY_{94}	15.4	X	192.91571	168.24003	257.26387	9.60399	0.2026610	0.17713187	3.1400621	20	6 5.4	20.7
247139 2000 WP_{104}	16.8	X	134.78741	247.98128	129.03415	5.47772	0.2517974	0.26692306	2.3889771	20	2 19.1	20.4
247140 2000 WL_{114}	16.6	X	223.68698	102.07144	286.83397	5.75111	0.2583969	0.22993240	2.6387765	20	5 13.0	21.1
247141 2000 WD_{153}	15.5	X	276.87445	90.26056	251.26810	14.31445	0.2672790	0.18203959	3.0833689	20	5 2.5	20.2
247142 2000 WR_{154}	16.5	X	238.66593	111.09425	260.23786	15.63128	0.2356140	0.23155922	2.6264028	20	5 4.6	21.0
247143 2000 WQ_{190}	17.2	X	241.00061	290.19363	107.77716	4.98044	0.1895573	0.28441799	2.2899782	20	6 17.2	20.5
247144 2000 WV_{190}	16.8	X	293.78931	285.23421	61.18808	7.94429	0.1434706	0.28552326	2.2840646	20	6 22.1	19.1
247145 2000 XG_{7}	15.5	X	270.43475	56.80820	22.28052	9.09399	0.2140240	0.19002342	2.9963874	20	9 9.5	19.5
247146 2000 XC_{12}	16.3	X	86.37426	43.69975	28.00139	9.24980	0.1495274	0.21436615	2.7650219	20	2 27.5	19.9
247147 2000 XX_{12}	15.1	X	196.86027	99.04062	305.72444	8.54329	0.2365697	0.17606953	3.1526801	20	5 11.9	20.7
247148 2000 XR_{14}	15.2	X	283.63577	151.11750	201.39267	19.50000	0.3782802	0.18563369	3.0434408	20	5 11.9	19.9
247149 2000 XM_{23}	15.4	X	160.65518	104.48462	326.78777	10.08924	0.2215338	0.17445678	3.1720802	20	5 14.7	21.0
247150 2000 XP_{25}	15.0	X	223.98274	115.86542	305.45090	14.30346	0.1886371	0.18030344	3.1031305	20	6 29.3	20.2
247151 2000 XR_{44}	16.2	X	355.32053	252.48337	80.95883	7.56126	0.1119856	0.18863737	3.0110472	20	9 20.2	19.9
247152 2000 XO_{46}	14.7	X	239.31062	75.78091	314.12761	20.40309	0.2574711	0.18056561	3.1001261	20	5 26.2	20.2
247153 2000 YH_{10}	14.8	X	272.26405	294.45639	79.05934	22.87715	0.1742979	0.18268442	3.0761089	20	6 19.8	19.3
247154 2000 YA_{21}	15.1	X	314.20134	203.45700	114.76917	16.18084	0.2056026	0.17777305	3.1325074	20	6 6.6	19.1
247155 2000 YL_{22}	15.5	X	96.29187	91.84639	113.19637	17.15919	0.0806184	0.17890444	3.1192868	20	8 18.7	20.2
247156 2000 YH_{29}	17.9	X	335.80138	284.78813	103.70914	21.84871	0.5270381	0.29819318	2.2188992	20	—	—
247157 2000 YY_{32}	16.6	X	299.38529	282.18592	99.75732	8.89119	0.2331419	0.28764834	2.2728013	20	8 17.8	18.4
247158 2000 YW_{38}	16.5	X	290.17825	271.75894	121.55925	4.32974	0.1791259	0.28749386	2.2736154	20	8 25.0	18.5
247159 2000 YK_{51}	15.2	X	296.05059	257.07715	104.19065	27.24543	0.0646818	0.23101028	2.6305618	20	7 27.7	18.6
247160 2000 YF_{54}	15.5	X	212.85805	199.29364	290.32832	29.22281	0.1911678	0.23535331	2.5980999	20	8 27.3	20.3
247161 2000 YZ_{66}	15.8	X	255.82645	86.92853	309.83681	9.10607	0.0397509	0.17685047	3.1433922	20	7 20.0	20.1
247162 2000 YO_{103}	16.4	X	266.39134	142.45442	285.28205	24.09121	0.2311885	0.28684837	2.2770250	20	8 13.1	19.5
247163 2000 YS_{123}	14.7	X	274.02087	88.97703	308.09070	16.69958	0.1680528	0.18028857	3.1033011	20	7 25.2	18.9
247164 2000 YL_{131}	15.1	X	187.91264	28.65044	15.48887	10.72785	0.2233839	0.17305419	3.1891967	20	5 4.4	20.6
247165 2000 YN_{134}	15.7	X	244.31187	118.30961	344.12973	27.61878	0.2085137	0.23435493	2.6054734	20	9 8.9	19.2
247166 2000 YW_{135}	16.0	X	228.38817	91.67922	319.21801	13.80487	0.2918818	0.17886367	3.1197608	20	6 11.6	21.6
247167 2001 AT_{15}	16.3	X	219.33649	339.58409	132.70481	25.55199	0.1927642	0.28381164	2.2932386	20	9 6.2	19.8
247168 2001 AM_{28}	14.9	X	238.67378	56.60044	319.50435	22.01784	0.3604287	0.17907188	3.1173420	20	4 24.8	20.9
247169 2001 AX_{43}	16.6	X	199.48700	97.57263	317.08016	2.59572	0.2028474	0.27608715	2.3358157	20	5 28.1	20.4
247170 2001 BY_{10}	15.2	X	284.44622	338.91470	42.62675	12.44891	0.0905108	0.18229076	3.0805360	20	8 3.7	19.6
247171 2001 BD_{15}	15.0	X	190.87698	148.03455	328.36349	12.17511	0.1612437	0.17760346	3.1345012	20	8 6.9	20.1
247172 2001 BX_{19}	16.2	X	114.89770	203.41154	257.23424	9.18988	0.2343037	0.21809704	2.7333980	20	5 13.8	20.5
247173 2001 BG_{36}	15.0	X	221.52689	171.68204	290.74834	21.64878	0.1054472	0.18135002	3.0911801	20	8 14.6	19.9
247174 2001 BS_{40}	16.1	X	116.31914	283.98724	158.60885	12.14362	0.2415486	0.21736463	2.7395346	20	4 27.9	20.5
247175 2001 BP_{80}	14.5	X	174.00582	206.29716	281.53978	26.24153	0.1075821	0.17527819	3.1621621	20	7 28.3	19.7
247176 2001 BF_{82}	16.4	X	232.14404	191.33694	286.01406	10.94902	0.1967434	0.23493089	2.6012133	20	9 11.3	20.5
247177 2001 CF_{18}	15.2	X	234.09084	115.44520	291.38578	5.71519	0.2715842	0.17770592	3.1332962	20	6 12.6	20.4
247178 2001 CQ_{32}	14.5	X	172.05622	121.08571	341.19640	22.85441	0.2798199	0.17532765	3.1615674	20	7 8.0	20.5
247179 2001 DC_{9}	16.3	X	227.51671	70.94092	344.63337	22.87932	0.2950722	0.27828488	2.3235016	20	6 18.3	20.8
247180 2001 DH_{38}	16.5	X	173.86729	131.32521	285.69725	6.39415	0.2396352	0.27263890	2.3554696	20	5 8.2	20.6
247181 2001 DC_{51}	15.9	X	236.63407	132.62546	342.07978	28.45679	0.1365898	0.23491221	2.6013512	20	9 18.6	19.7
247182 2001 DT_{60}	15.6	X	198.43693	150.84058	317.68100	3.98252	0.1092461	0.17763072	3.1341805	20	8 5.5	20.5
247183 2001 DP_{87}	14.9	X	163.98595	63.99791	156.28910	30.65218	0.2904817	0.23073786	2.6326319	20	11 21.9	20.3
247184 2001 DJ_{91}	16.4	X	131.58059	101.27743	325.56552	7.63553	0.0550329	0.26415207	2.4056552	20	3 24.2	19.6
247185 2001 EQ_{2}	16.1	X	233.07488	101.12348	96.58799	8.83682	0.1077790	0.24172432	2.5522457	20	—	—
247186 2001 EO_{18}	14.9	X	146.76175	151.03079	357.08325	15.74418	0.0439834	0.17377384	3.1803856	20	8 4.9	19.8
247187 2001 FK_{109}	16.7	X	166.60741	72.60714	170.83112	4.86354	0.2415668	0.23480879	2.6021150	20	12 16.8	21.3
247188 2001 FP_{115}	16.5	X	28.54514	180.41667	34.35700	4.78338	0.2567805	0.21284829	2.7781516	20	6 19.7	19.2
247189 2001 KV_{15}	16.1	X	191.59142	323.85992	219.98308	12.87374	0.2464127	0.22969887	2.6405647	20	10 25.9	20.6
247190 2001 KA_{39}	16.4	X	193.32036	194.68603	88.58840	16.07202	0.2751349	0.23757365	2.5818868	20	—	—
247191 2001 LY_{8}	15.8	X	351.58053	88.31490	221.24106	12.18894	0.1717695	0.21229875	2.7829437	20	8 6.9	19.0
247192 2001 MN_{31}	15.7	X	140.07927	313.27637	310.05919	12.98853	0.1294898	0.22485317	2.6783667	20	12 20.2	20.1
247193 2001 NQ_{3}	16.5	X	65.33777	20.28576	313.84032	3.86447	0.1869359	0.22195045	2.7016393	20	—	—
247194 2001 NR_{11}	15.7	X	229.76898	261.62306	314.30424	26.59167	0.0944462	0.23198233	2.6232083	20	—	—
247195 2001 OB_{2}	15.7	X	349.43984	318.36140	327.17287	14.46227	0.1327955	0.20506709	2.8479918	20	7 4.8	19.1
247196 2001 OS_{58}	14.7	X	150.67300	144.53799	159.91388	27.72220	0.1840173	0.17427919	3.1742347	20	—	—
247197 2001 OV_{84}	15.5	X	174.98153	108.56007	204.53257	11.51416	0.1616525	0.18234561	3.0799182	20	1 9.6	20.7
247198 2001 OM_{86}	16.2	X	23.80179	271.44098	84.91558	12.50661	0.2327674	0.21416329	2.7667677	20	12 22.4	19.7
247199 2001 OF_{97}	16.5	X	89.21808	246.67506	121.34542	9.05729	0.3374502	0.22578561	2.6709876	20	1 3.4	19.5
247200 2001 OZ_{103}	16.8	X	57.87608	118.76810	141.76914	5.15249	0.1801455	0.31718079	2.1294370	20	10 16.1	19.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
247201 2001 OO_{109}	15.5	X	57.77055	226.32539	154.72058	9.13716	0.3026041	0.21903365	2.7256002	20	—	—
247202 2001 PR	15.4	X	113.48429	115.17720	264.57239	13.92252	0.1074232	0.23428248	2.6060106	20	1 12.1	18.9
247203 2001 PK_{4}	16.4	X	158.57257	47.45199	233.20088	4.17146	0.2940627	0.22972038	2.6403999	20	—	—
247204 2001 PE_{20}	15.5	X	45.35120	241.83156	119.59551	14.32418	0.1110802	0.22112295	2.7084044	20	—	—
247205 2001 PR_{20}	15.7	X	42.15433	268.07572	106.39247	13.25235	0.2066454	0.22061556	2.7125554	20	—	—
247206 2001 PC_{27}	16.1	X	65.62266	29.84597	286.69460	2.37655	0.1902833	0.21739699	2.7392628	20	12 16.0	20.3
247207 2001 PO_{27}	16.2	X	79.31854	69.25808	300.88320	4.79677	0.3052451	0.22387740	2.6861436	20	—	—
247208 2001 PN_{28}	16.0	X	286.99373	21.49235	291.46306	7.45726	0.2241459	0.19870445	2.9084682	20	4 11.3	20.2
247209 2001 QU_{5}	15.6	X	12.24225	71.92193	315.31353	4.87442	0.0484442	0.21995029	2.7180224	20	12 20.9	19.1
247210 2001 QS_{7}	16.7	X	21.91522	217.38167	148.20109	11.55694	0.2453615	0.26884260	2.3775920	20	—	—
247211 2001 QU_{9}	15.5	X	17.88512	28.10729	326.10582	13.02496	0.2023128	0.21458255	2.7631626	20	12 5.6	19.2
247212 2001 QO_{49}	16.0	X	98.02372	308.70947	326.50773	11.84648	0.1408059	0.21831812	2.7315523	20	11 20.6	20.5
247213 2001 QO_{51}	16.1	X	135.11692	202.87391	134.46510	13.38909	0.1717061	0.23088552	2.6315093	20	—	—
247214 2001 QE_{63}	15.8	X	17.54795	47.43725	345.91865	12.47460	0.2094259	0.21760638	2.7375053	20	—	—
247215 2001 QD_{90}	15.4	X	72.24535	135.52854	240.12365	14.90036	0.1962720	0.22216324	2.6999429	20	—	—
247216 2001 QA_{93}	15.8	X	128.07902	98.71340	227.56545	10.54853	0.2048037	0.22629148	2.6670055	20	—	—
247217 2001 QT_{109}	15.5	X	96.35814	274.22715	95.59889	15.29531	0.2308104	0.22804753	2.6532966	20	—	—
247218 2001 QL_{119}	15.5	X	75.18162	349.57487	339.83440	9.27676	0.1735342	0.21725289	2.7404740	20	—	—
247219 2001 QC_{129}	16.0	X	21.46994	186.95665	183.64339	9.57355	0.1822517	0.21717976	2.7410891	20	12 30.0	19.7
247220 2001 QJ_{129}	15.6	X	142.70929	100.42305	305.28823	16.34802	0.2147414	0.18608650	3.0385016	20	3 24.7	20.9
247221 2001 QV_{129}	16.3	X	9.04218	95.15989	285.61999	8.03586	0.2193791	0.21590261	2.7518882	20	12 31.5	19.5
247222 2001 QQ_{136}	16.3	X	99.42948	351.38637	325.18785	8.69033	0.2324015	0.21995375	2.7179939	20	—	—
247223 2001 QV_{148}	16.1	X	45.59499	290.77158	128.15068	12.40060	0.1786517	0.22407590	2.6845569	20	—	—
247224 2001 QG_{153}	16.6	X	347.07235	18.91344	10.59745	9.30794	0.2999752	0.21024600	2.8010287	20	12 11.7	19.2
247225 2001 QW_{155}	16.3	X	351.00331	77.47487	318.07983	6.68962	0.2753682	0.21362715	2.7713950	20	12 28.6	18.9
247226 2001 QM_{159}	16.6	X	46.04239	144.86299	152.91946	9.91557	0.2164714	0.21334682	2.7738221	20	11 7.8	20.6
247227 2001 QP_{171}	16.5	X	91.95792	143.71237	167.24037	14.99023	0.2503689	0.22237276	2.6982467	20	—	—
247228 2001 QZ_{194}	15.7	X	47.22765	101.59024	304.41666	10.23855	0.0731593	0.22181664	2.7027547	20	—	—
247229 2001 QB_{195}	15.8	X	38.92604	136.89635	266.34030	7.34581	0.2919059	0.21919238	2.7242842	20	—	—
247230 2001 QU_{204}	16.5	X	39.03963	19.70684	313.49235	14.06134	0.1825803	0.21553878	2.7549842	20	12 4.9	20.5
247231 2001 QA_{210}	16.7	X	4.36806	54.90171	291.56175	7.54240	0.1619572	0.21221386	2.7836859	20	10 25.7	20.0
247232 2001 QS_{219}	15.9	X	28.26192	118.09720	300.55270	12.64281	0.0984906	0.21891882	2.7265533	20	—	—
247233 2001 QT_{221}	16.5	X	28.56145	51.02103	289.06950	12.61108	0.1649370	0.21546917	2.7555775	20	11 27.3	20.2
247234 2001 QH_{244}	15.2	X	110.20087	311.88339	1.99443	18.87519	0.1061155	0.16818103	3.2505091	20	—	—
247235 2001 QP_{245}	15.4	X	98.41104	345.91076	359.31629	13.48846	0.1876890	0.22292968	2.6937511	20	—	—
247236 2001 QY_{250}	15.7	X	55.12440	249.30656	31.69586	10.65498	0.2495917	0.21301503	2.7767016	20	10 29.0	19.6
247237 2001 QK_{251}	16.0	X	55.86841	80.85698	290.57089	11.01073	0.1750548	0.22373372	2.6872934	20	—	—
247238 2001 QW_{255}	15.7	X	61.09630	73.22172	3.19467	5.77538	0.2097119	0.23030388	2.6359381	20	1 27.2	18.3
247239 2001 QC_{259}	16.4	X	7.36582	76.07385	301.23388	8.51700	0.2595584	0.21322411	2.7748862	20	12 30.4	19.5
247240 2001 QX_{273}	14.5	X	145.72047	189.40061	138.08530	28.75582	0.1364492	0.17806241	3.1291128	20	1 2.4	19.6
247241 2001 QN_{285}	16.3	X	31.85422	296.53237	5.98258	4.26848	0.0548503	0.21152965	2.7896853	20	9 28.3	19.7
247242 2001 QH_{287}	17.0	X	325.41530	221.18346	173.14815	10.65080	0.2269473	0.26241096	2.4162845	20	11 13.1	18.8
247243 2001 RL_{1}	15.9	X	44.90097	327.93075	348.67358	4.43116	0.1493170	0.21409213	2.7673807	20	11 15.9	19.8
247244 2001 RN_{3}	16.6	X	52.30260	58.14558	244.61635	10.81184	0.2579397	0.21475185	2.7617103	20	11 23.3	20.7
247245 2001 RV_{13}	16.2	X	236.74273	54.79633	174.36501	11.98340	0.0832468	0.22873289	2.6479938	20	—	—
247246 2001 RB_{33}	16.9	X	279.06835	207.01857	172.33815	9.61098	0.2319954	0.25538128	2.4604243	20	6 30.8	20.1
247247 2001 RT_{38}	16.5	X	6.49575	193.00725	177.83923	5.06511	0.1857342	0.21433119	2.7653225	20	12 9.2	19.7
247248 2001 RB_{40}	16.6	X	336.83617	207.93571	169.79921	3.39315	0.1143491	0.21059275	2.7979532	20	10 20.3	19.6
247249 2001 RF_{43}	15.5	X	93.47489	75.02224	285.75327	13.91384	0.2584033	0.22597214	2.6695176	20	—	—
247250 2001 RQ_{48}	16.3	X	40.24960	254.15713	69.21625	20.14414	0.3505103	0.21349202	2.7725642	20	12 15.6	20.5
247251 2001 RL_{50}	15.3	X	131.67535	81.39055	236.46780	8.02050	0.0673957	0.17328908	3.1863141	20	—	—
247252 2001 RB_{57}	15.4	X	194.62497	254.47616	3.59914	8.70858	0.0513325	0.17357402	3.1828261	20	—	—
247253 2001 RX_{59}	16.1	X	21.15598	249.19215	123.25144	8.06297	0.2629172	0.21496224	2.7599080	20	—	—
247254 2001 RP_{80}	16.3	X	51.03611	146.09517	181.55108	7.95039	0.2240627	0.21545924	2.7556622	20	12 18.3	20.5
247255 2001 RT_{82}	16.3	X	348.80735	199.57251	195.95127	7.95803	0.2269339	0.21336834	2.7736356	20	12 16.3	19.2
247256 2001 RR_{85}	16.7	X	40.19538	125.81290	188.11683	1.28983	0.2327635	0.21272422	2.7792317	20	11 20.1	20.4
247257 2001 RX_{88}	15.8	X	347.66167	16.51809	24.01595	6.33417	0.2719689	0.21231134	2.7828337	20	12 27.1	18.4
247258 2001 RZ_{93}	16.5	X	75.78202	9.35814	353.93406	0.96262	0.2553297	0.22160177	2.7045015	20	—	—
247259 2001 RT_{98}	15.0	X	181.92761	93.00925	164.42864	16.55679	0.1255362	0.17532416	3.1616094	20	—	—
247260 2001 RX_{109}	15.0	X	52.59770	12.52890	350.60825	21.94551	0.0661784	0.16806301	3.2520305	20	—	—
247261 2001 RH_{123}	15.2	X	202.64038	258.58992	358.63193	11.96622	0.2021034	0.17657453	3.1466662	20	—	—
247262 2001 RM_{146}	14.9	X	153.93901	92.32170	225.31479	14.63116	0.2113834	0.17799373	3.1299176	20	—	—
247263 2001 RD_{148}	15.9	X	51.96880	321.91956	349.99719	13.99051	0.1112962	0.21516382	2.7581839	20	11 9.4	19.9
247264 2001 SW_{8}	16.3	X	32.68312	154.65878	208.90520	11.94580	0.1908181	0.26901182	2.3765948	20	—	—
247265 2001 SP_{13}	16.5	X	350.17685	216.36628	173.85255	8.19122	0.2234525	0.21237821	2.7822496	20	12 11.4	19.4
247266 2001 SP_{26}	15.9	X	212.14431	117.75635	183.77854	14.30349	0.3170763	0.18430729	3.0580251	20	1 24.9	21.7
247267 2001 SV_{49}	15.7	X	43.60222	164.20098	169.59024	14.05360	0.1653972	0.21329973	2.7742303	20	12 10.6	19.8
247268 2001 SF_{62}	16.1	X	90.58146	159.18002	191.15115	12.43017	0.1276606	0.22098819	2.7095053	20	—	—
247269 2001 SY_{63}	15.6	X	179.97864	232.94658	27.77069	13.17137	0.1985302	0.22243882	2.6977124	20	—	—
247270 2001 SG_{87}	16.5	X	3.14209	39.67748	323.10287	3.02221	0.1090413	0.21337680	2.7735623	20	11 10.8	19.8
247271 2001 SF_{89}	16.0	X	73.64504	13.39390	272.54492	3.69380	0.0354511	0.21272569	2.7792189	20	10 27.4	20.0
247272 2001 SU_{92}	16.9	X	32.78380	74.30831	258.49511	0.95024	0.1665864	0.21357554	2.7718414	20	11 24.6	20.5
247273 2001 SX_{104}	15.6	X	29.93816	84.31502	357.07359	14.11306	0.0848507	0.22445241	2.6815539	20	—	—
247274 2001 SU_{116}	15.1	X	130.23694	113.00666	193.14032	17.63011	0.1409628	0.17239518	3.1973190	20	—	—
247275 2001 SH_{119}	16.0	X	40.17503	50.54851	281.11112	5.90110	0.0960303	0.21377068	2.7701543	20	11 21.6	19.7
247276 2001 SU_{123}	15.3	X	150.74294	345.02980	331.18873	10.55296	0.1408401	0.17656408	3.1467903	20	—	—
247277 2001 SK_{135}	15.7	X	335.97641	14.14380	357.97226	7.71447	0.0928550	0.20842996	2.8172753	20	10 7.7	19.2
247278 2001 SR_{144}	15.1	X	185.72080	77.05737	183.92945	25.65682	0.2121699	0.17418145	3.1754219	20	—	—
247279 2001 SG_{148}	15.3	X	127.13427	345.17255	326.11878	6.46036	0.1374906	0.17068289	3.2186670	20	—	—
247280 2001 SY_{149}	16.2	X	31.02079	102.28735	338.55377	5.55055	0.1300466	0.22409797	2.6843807	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
247281 2001 SR_{155}	15.0	X	81.41842	229.66845	204.28049	16.02929	0.1877089	0.17571108	3.1569664	20	2 25.8	19.4
247282 2001 SK_{181}	16.0	X	30.52812	11.25228	340.24897	15.29463	0.0696715	0.21699132	2.7426758	20	11 28.4	20.0
247283 2001 SC_{187}	15.1	X	134.03306	39.97589	344.05426	13.40198	0.1590007	0.18355751	3.0663469	20	2 25.9	19.8
247284 2001 ST_{199}	16.3	X	332.45281	269.50287	136.39054	2.37554	0.1936182	0.21179619	2.7873444	20	11 23.2	18.9
247285 2001 SC_{205}	15.5	X	23.69954	308.28043	7.84843	11.88532	0.0817851	0.20907949	2.8114375	20	10 6.9	19.2
247286 2001 SE_{206}	15.7	X	312.11189	258.35288	359.53288	13.35986	0.1075546	0.19079365	2.9883178	20	3 25.6	19.6
247287 2001 SE_{246}	16.7	X	358.73091	342.71621	21.31544	3.47955	0.2012235	0.26225390	2.4172491	20	12 3.2	19.1
247288 2001 SC_{250}	15.2	X	354.31528	323.34762	40.92105	9.94552	0.1412648	0.15579466	3.4205899	20	10 20.8	19.2
247289 2001 SL_{258}	15.9	X	68.71339	187.12132	179.12479	12.90112	0.0206210	0.22280938	2.6947206	20	—	—
247290 2001 SS_{284}	16.6	X	259.21118	145.53580	187.41417	12.59730	0.0856044	0.19293089	2.9662076	20	4 28.4	20.9
247291 2001 SM_{294}	16.0	X	58.79462	51.30997	277.69983	4.00669	0.1547507	0.21775907	2.7362255	20	12 20.1	19.9
247292 2001 SW_{294}	16.5	X	55.59137	94.91240	271.68350	2.86656	0.1357864	0.22073209	2.7116007	20	—	—
247293 2001 SR_{299}	16.6	X	115.35719	326.52226	302.57772	2.85417	0.0589135	0.21591769	2.7517601	20	11 27.9	20.5
247294 2001 SA_{305}	15.4	X	43.98000	85.29742	7.04858	13.62604	0.0891295	0.17510534	3.1642428	20	1 21.9	19.7
247295 2001 SA_{344}	15.7	X	82.25019	125.22137	269.34293	10.73770	0.2002953	0.22821495	2.6519988	20	1 3.9	18.5
247296 2001 SQ_{345}	16.2	X	32.79597	69.44938	254.37796	6.11038	0.1692881	0.21223671	2.7834860	20	11 12.6	19.8
247297 2001 SH_{354}	12.6	X	113.21796	89.53383	31.38943	21.96049	0.0512581	0.08417769	5.1562983	20	5 14.5	19.6
247298 2001 TS_{24}	15.5	X	214.00081	339.60793	2.59601	16.11669	0.0800179	0.18523561	3.0477995	20	3 20.9	20.2
247299 2001 TK_{49}	16.0	X	49.15993	358.73601	4.00119	7.15500	0.1239107	0.21600670	2.7510041	20	—	—
247300 2001 TF_{57}	15.9	X	45.48418	104.04991	200.04957	7.02018	0.2179574	0.21083229	2.7958334	20	11 12.4	19.7
247301 2001 TW_{57}	16.6	X	31.32830	358.85621	348.94382	2.16845	0.1937317	0.21289962	2.7777050	20	12 15.3	20.3
247302 2001 TY_{60}	16.8	X	15.31717	5.31844	25.80691	1.21180	0.2990781	0.21434084	2.7652396	20	—	—
247303 2001 TY_{68}	16.3	X	39.68767	104.44083	199.89580	6.90524	0.2171839	0.21000383	2.8031816	20	11 5.2	20.0
247304 2001 TW_{78}	15.7	X	47.80018	167.58554	190.88977	7.85584	0.2794970	0.21484652	2.7608989	20	—	—
247305 2001 TS_{84}	16.7	X	352.01879	187.82225	200.17757	5.09286	0.1728168	0.21085847	2.7956020	20	12 4.5	19.8
247306 2001 TR_{88}	16.5	X	288.52030	122.05115	216.61701	6.31350	0.2511670	0.19798600	2.9155001	20	5 16.4	20.5
247307 2001 TA_{92}	16.5	X	0.23636	41.01968	325.43065	2.21462	0.1242788	0.20991078	2.8040100	20	11 12.3	19.8
247308 2001 TH_{121}	15.2	X	160.09171	76.95803	299.48742	9.94382	0.2443898	0.18142014	3.0903835	20	3 10.9	20.7
247309 2001 TO_{121}	15.7	X	328.54457	57.62718	282.07285	10.02752	0.1173084	0.20063664	2.8897652	20	8 7.4	19.2
247310 2001 TK_{123}	15.2	X	108.24001	195.16771	210.16656	27.95574	0.1426563	0.17834320	3.1258275	20	2 14.5	20.2
247311 2001 TD_{125}	16.0	X	353.87059	88.29495	300.54161	7.78862	0.1681697	0.21126314	2.7920310	20	12 7.5	19.1
247312 2001 TM_{162}	15.3	X	212.96122	126.24326	205.81242	10.70273	0.0581534	0.18436462	3.0573911	20	3 5.3	20.0
247313 2001 TP_{168}	15.5	X	29.48522	134.02230	271.65754	8.92775	0.2081077	0.21621346	2.7492499	20	—	—
247314 2001 TE_{169}	15.2	X	26.77238	144.66451	268.20230	13.79648	0.0861160	0.21606771	2.7504862	20	—	—
247315 2001 TP_{176}	12.8	X	263.68888	291.54111	29.49397	19.10927	0.0373234	0.08222241	5.2377238	20	4 26.4	19.8
247316 2001 TH_{180}	15.0	X	179.63826	127.02758	252.83923	8.08447	0.1192629	0.18440709	3.0569217	20	3 27.8	20.0
247317 2001 TV_{183}	15.6	X	39.09750	81.15688	22.16099	10.93911	0.0249392	0.17501858	3.1652884	20	1 24.6	20.1
247318 2001 TM_{186}	15.8	X	250.44202	211.69469	231.71315	15.76331	0.1170823	0.20140089	2.8824500	20	8 25.8	20.3
247319 2001 TG_{199}	16.4	X	321.25032	288.46635	137.28476	9.05426	0.2607553	0.21085598	2.7956241	20	11 28.8	18.7
247320 2001 TU_{200}	15.5	X	107.88474	208.00752	136.50378	10.90526	0.1324950	0.22395330	2.6855366	20	—	—
247321 2001 TG_{209}	16.3	X	345.11281	151.93615	277.04759	8.89194	0.3014422	0.21375738	2.7702692	20	—	—
247322 2001 TA_{228}	16.8	X	107.72777	118.63819	217.27855	4.74087	0.0892327	0.22209108	2.7005277	20	—	—
247323 2001 TY_{232}	12.9	X	244.55490	308.52890	32.09858	11.65238	0.0693873	0.08219868	5.2387318	20	4 25.3	20.0
247324 2001 TT_{248}	17.4	X	326.04399	67.41864	31.08999	6.08591	0.1925702	0.26920899	2.3754342	20	—	—
247325 2001 TU_{249}	16.8	X	319.42323	253.86491	112.67865	3.15904	0.1115241	0.20471369	2.8512685	20	9 3.5	20.1
247326 2001 UZ_{22}	15.6	X	51.33557	87.28710	269.43240	9.72748	0.1632747	0.21602475	2.7508508	20	—	—
247327 2001 UJ_{45}	16.7	X	20.90702	247.63920	174.48611	3.77568	0.1991620	0.21759947	2.7375633	20	—	—
247328 2001 UV_{56}	16.0	X	89.73297	346.29610	8.83850	5.21033	0.0011576	0.22074718	2.7114771	20	—	—
247329 2001 UF_{59}	15.8	X	207.25706	345.81664	7.24735	1.28344	0.1381824	0.18570620	3.0426485	20	3 24.9	20.6
247330 2001 UJ_{60}	16.3	X	51.40838	24.24857	262.77017	3.30223	0.1930460	0.20995515	2.8036149	20	10 23.4	20.2
247331 2001 UR_{78}	15.7	X	98.82195	223.61162	192.15366	8.67382	0.1741839	0.17587053	3.1550579	20	2 25.6	20.2
247332 2001 UK_{108}	16.7	X	6.08242	158.58500	204.34628	3.44002	0.2174113	0.20907291	2.8114965	20	11 30.9	19.7
247333 2001 UB_{112}	15.3	X	200.85867	92.97566	221.16505	25.98045	0.0747731	0.17694015	3.1423299	20	1 26.9	20.6
247334 2001 UF_{124}	15.6	X	9.75848	350.56429	128.49152	14.26992	0.2260479	0.22284936	2.6943983	20	—	—
247335 2001 UT_{135}	17.0	X	50.17353	173.39252	211.90701	2.84856	0.2029505	0.21759113	2.7376332	20	—	—
247336 2001 UP_{145}	17.1	X	339.54953	283.77983	117.75528	2.98952	0.1628948	0.26204709	2.4185208	20	12 17.3	19.2
247337 2001 UP_{151}	15.4	X	88.90950	105.40070	218.29042	10.93683	0.0979744	0.21336476	2.7736666	20	—	—
247338 2001 UJ_{169}	15.7	X	24.02044	60.25790	325.17327	10.01999	0.2723079	0.21285514	2.7780920	20	—	—
247339 2001 UP_{200}	15.8	X	79.66226	69.31465	17.08446	15.12197	0.0914053	0.17824616	3.1269619	20	3 5.7	20.1
247340 2001 UD_{206}	16.2	X	30.57159	248.45489	72.95061	8.65639	0.2271527	0.21209099	2.7847608	20	11 17.1	19.7
247341 2001 UV_{209}	12.6	X	237.21896	270.97002	85.34764	25.78588	0.0663590	0.08275320	5.2153026	20	5 13.9	19.9
247342 2001 UL_{210}	16.2	X	209.67710	328.28509	338.15690	24.21944	0.1723880	0.28674127	2.2775919	20	1 29.6	20.1
247343 2001 UU_{219}	16.5	X	335.84477	171.90144	187.20169	9.28056	0.2441050	0.25627602	2.4546942	20	10 8.2	17.7
247344 2001 UZ_{220}	15.6	X	74.24840	288.83464	42.91213	11.99583	0.1066361	0.21324834	2.7746760	20	—	—
247345 2001 UH_{224}	16.1	X	67.69739	196.24021	165.51494	9.55974	0.2474809	0.21820727	2.7324774	20	—	—
247346 2001 VK	15.5	X	87.07169	317.90673	39.68166	13.82918	0.1417074	0.22314111	2.6920492	20	—	—
247347 2001 VV_{16}	15.1	X	213.21782	75.28856	273.09647	20.60614	0.2320172	0.18680749	3.0306784	20	3 10.9	20.8
247348 2001 VT_{20}	17.0	X	117.58523	97.82811	230.11409	4.16543	0.2560418	0.27482891	2.3429396	20	—	—
247349 2001 VZ_{40}	15.1	X	102.51349	140.87773	257.65502	9.73121	0.1240536	0.17101620	3.2144836	20	2 1.8	19.7
247350 2001 VP_{49}	15.7	X	14.59082	47.52924	323.06205	7.28510	0.1883172	0.21187914	2.7866168	20	12 20.6	19.2
247351 2001 VB_{52}	12.5	X	265.83140	95.00951	237.87607	21.15686	0.0958954	0.08385920	5.1693456	20	5 5.7	19.5
247352 2001 VR_{57}	15.8	X	18.15390	90.94945	253.31855	13.77444	0.1714426	0.20638756	2.8358312	20	11 16.8	19.4
247353 2001 VW_{59}	17.0	X	325.24699	114.12445	281.87034	5.99097	0.1217847	0.31214026	2.1523003	20	11 23.4	18.7
247354 2001 VG_{101}	14.9	X	326.04405	120.97058	255.41077	8.54774	0.0996273	0.15084579	3.4950006	20	9 13.4	19.5
247355 2001 VH_{122}	15.0	X	114.82636	264.45355	128.82609	26.96076	0.2140091	0.17438480	3.1729530	20	2 25.7	20.0
247356 2001 VM_{132}	15.7	X	195.09120	139.26876	95.19393	17.97748	0.0912612	0.21596338	2.7513719	20	—	—
247357 2001 WW_{10}	15.9	X	336.28943	42.29163	74.73107	8.90291	0.1711431	0.21605405	2.7506022	20	—	—
247358 2001 WQ_{67}	15.2	X	55.66535	202.78486	220.82576	18.26652	0.0481550	0.17006424	3.2264682	20	—	—
247359 2001 WC_{84}	16.2	X	305.69011	134.97299	236.92768	11.05630	0.0696342	0.19772294	2.9180854	20	8 16.3	20.3
247360 2001 XU	19.2	X	159.22716	285.97602	261.07647	19.07141	0.8368291	0.23890435	2.5722905	20	9 23.8	25.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
247361 2001 XY_1	16.0	X	35.64907	91.85619	301.90962	23.74696	0.1897600	0.21711957	2.7415957	20	—	—
247362 2001 XX_6	16.5	X	187.97813	45.33365	109.94376	35.13000	0.0800170	0.35537232	1.9739992	20	11 9.5	19.9
247363 2001 XG_{12}	16.9	X	17.80901	34.11291	353.23899	4.64423	0.2348483	0.26495006	2.4008224	20	—	—
247364 2001 XK_{36}	16.2	X	51.61633	16.42262	11.91139	9.20415	0.1847827	0.21659845	2.7459913	20	—	—
247365 2001 XC_{38}	15.9	X	193.86448	75.77489	357.06899	8.43493	0.1612530	0.24145679	2.5541306	20	6 16.7	20.1
247366 2001 XN_{38}	15.5	X	232.55104	26.69404	26.28567	11.90085	0.1606774	0.19097609	2.9864143	20	6 28.8	20.4
247367 2001 XN_{49}	16.7	X	341.77277	322.27863	126.47120	1.21361	0.0367965	0.21397423	2.7683972	20	—	—
247368 2001 XO_{51}	15.7	X	330.05577	259.71215	70.76639	18.00254	0.1558825	0.19703761	2.9248480	20	7 31.9	19.3
247369 2001 XH_{61}	15.7	X	288.68828	301.04027	88.27547	17.11114	0.2156283	0.19734631	2.9217970	20	7 30.6	19.5
247370 2001 XJ_{65}	16.6	X	138.23525	133.86499	275.59408	8.29027	0.1975399	0.28307580	2.2972110	20	3 22.3	20.1
247371 2001 XD_{68}	16.1	X	266.69734	321.35888	104.45017	26.49561	0.2280594	0.30073463	2.2063805	20	9 2.9	19.0
247372 2001 XY_{80}	16.4	X	149.59044	219.19334	251.76495	7.65307	0.1195751	0.23903932	2.5713221	20	6 21.9	20.2
247373 2001 XG_{86}	15.5	X	353.92187	157.87109	273.19720	14.69579	0.2225438	0.20964196	2.8064065	20	—	—
247374 2001 XT_{110}	15.9	X	31.50507	310.94074	81.78999	12.54575	0.1198063	0.21503597	2.7592771	20	—	—
247375 2001 XJ_{169}	16.5	X	165.53214	186.51247	260.60166	10.96572	0.1463552	0.23775661	2.5805621	20	6 8.3	20.6
247376 2001 XZ_{197}	16.8	X	281.98315	50.41911	115.77017	12.48948	0.1891370	0.26065985	2.4270942	20	—	—
247377 2001 XQ_{221}	15.1	X	134.29550	135.38084	245.70375	11.72820	0.0220870	0.17448367	3.1717542	20	2 3.0	19.8
247378 2001 XW_{230}	17.3	X	323.46254	187.04842	287.66522	3.45365	0.1950226	0.26546641	2.3977082	20	—	—
247379 2001 XM_{231}	17.1	X	21.83653	53.48085	51.24494	5.45449	0.1903420	0.27297237	2.3535508	20	—	—
247380 2001 XU_{233}	16.3	X	315.19184	47.68060	325.45409	1.72346	0.0833352	0.19845608	2.9108943	20	9 5.3	19.9
247381 2001 XZ_{260}	16.2	X	308.71160	247.76735	228.94172	4.62480	0.0192828	0.21432770	2.7653526	20	—	—
247382 2001 YP_{55}	15.5	X	255.25844	90.54327	270.22880	11.86424	0.1085265	0.18812092	3.0165555	20	5 23.6	19.9
247383 2001 YE_{63}	15.4	X	158.82867	173.11656	285.71419	7.02386	0.0922375	0.18402028	3.0612039	20	6 14.2	20.1
247384 2001 YQ_{73}	15.1	X	186.54366	293.58584	101.36767	18.62308	0.0876813	0.17911144	3.1168830	20	5 3.2	20.2
247385 2001 YD_{95}	14.8	X	303.30628	298.67226	294.97658	20.18286	0.0642519	0.17117744	3.2124647	20	2 15.1	19.5
247386 2001 YH_{96}	15.0	X	227.73306	292.44836	94.14016	18.15639	0.1768013	0.18444249	3.0565305	20	5 24.8	20.1
247387 2001 YS_{115}	16.0	X	146.18763	145.50405	309.01678	15.67844	0.1601795	0.23348954	2.6119073	20	5 28.9	20.4
247388 2001 YA_{122}	15.3	X	44.43736	71.67589	303.12708	6.34767	0.2308334	0.21413352	2.7670242	20	—	—
247389 2001 YX_{124}	16.7	X	168.52563	96.59830	303.31755	6.44268	0.2167024	0.28804541	2.2707121	20	4 9.4	20.6
247390 2001 YZ_{151}	16.0	X	316.18220	68.99513	342.81104	7.32097	0.2135755	0.20308916	2.8664534	20	10 19.0	18.8
247391 2002 AA_{22}	17.1	X	114.88313	238.25200	333.88536	18.91692	0.0915220	0.40207276	1.8180240	20	10 6.5	19.6
247392 2002 AX_{33}	15.6	X	180.23506	273.60252	278.57679	4.08772	0.0686234	0.19896195	2.9059582	20	10 31.3	19.9
247393 2002 AO_{66}	15.8	X	122.08029	36.05943	186.58020	12.94846	0.2325452	0.24299696	2.5433267	20	10 22.5	20.1
247394 2002 AE_{75}	15.2	X	35.21502	330.50202	297.72801	15.23539	0.0560408	0.18970611	2.9997277	20	8 12.1	19.3
247395 2002 AF_{111}	15.2	X	335.36286	323.72064	318.58034	10.41009	0.0357600	0.18025295	3.1037099	20	6 7.4	19.6
247396 2002 AO_{139}	15.1	X	215.00050	294.49519	107.50220	10.42166	0.1117312	0.18130598	3.0916807	20	6 2.4	19.9
247397 2002 AT_{156}	15.7	X	158.66940	351.29071	138.81732	9.89954	0.0522051	0.18441667	3.0568158	20	7 21.6	20.2
247398 2002 AF_{164}	15.3	X	169.51429	134.69503	302.61203	12.28447	0.0835627	0.17804217	3.1293499	20	5 27.9	20.3
247399 2002 AX_{198}	14.8	X	153.41703	63.62323	272.57712	12.16974	0.0648213	0.16742223	3.2603230	20	1 11.6	19.7
247400 2002 AL_{205}	14.6	X	317.22296	262.91452	91.90190	18.98551	0.1063403	0.14710387	3.5540209	20	8 10.3	19.4
247401 2002 AV_{208}	16.2	X	18.06553	257.87144	309.80893	25.55196	0.1899805	0.27860726	2.3217089	20	4 12.9	18.9
247402 2002 BY_{13}	17.2	X	272.98078	138.01483	285.29855	2.47039	0.1355605	0.30050040	2.2075270	20	9 16.8	19.5
247403 2002 BL_{19}	16.7	X	208.18412	126.10510	45.09073	4.07370	0.0820670	0.30343765	2.1932581	20	11 26.5	19.4
247404 2002 BV_{21}	17.3	X	103.12161	286.94385	235.58435	2.10419	0.0982328	0.28701761	2.2761298	20	7 8.1	20.3
247405 2002 CU_1	14.9	X	132.50550	5.47553	89.18523	10.01536	0.2332929	0.12437043	3.9748854	20	5 25.1	21.3
247406 2002 CN_{47}	15.0	X	208.45279	78.21973	323.50357	14.07399	0.0753552	0.18067861	3.0988333	20	5 23.8	19.9
247407 2002 CT_{51}	17.0	X	187.33010	32.92393	150.64777	3.20286	0.1228370	0.30154563	2.2024228	20	11 13.2	19.9
247408 2002 CQ_{75}	15.1	X	36.71982	232.89803	333.37386	11.30299	0.1090966	0.17543034	3.1603335	20	5 31.1	19.3
247409 2002 CF_{79}	13.0	X	233.77056	111.84795	355.00284	6.87071	0.0610168	0.08424031	5.1537428	20	9 6.0	20.0
247410 2002 CW_{108}	15.7	X	105.57447	193.89969	1.15665	13.56344	0.1761016	0.23368366	2.6104606	20	9 1.7	19.8
247411 2002 CY_{108}	16.5	X	108.37289	3.57755	144.17390	5.67195	0.1075472	0.28271516	2.2991642	20	6 25.1	19.5
247412 2002 CU_{120}	15.2	X	43.73162	38.54207	137.90451	12.71300	0.0346858	0.17537485	3.1610000	20	5 1.7	19.7
247413 2002 CF_{134}	16.8	X	163.39514	334.64119	156.98941	5.41163	0.1678949	0.23716061	2.5848837	20	8 1.9	20.9
247414 2002 CF_{150}	16.5	X	356.91271	170.28251	128.62684	9.33947	0.0131652	0.23774579	2.5806404	20	8 3.9	19.7
247415 2002 CH_{196}	17.1	X	248.78081	281.02686	131.89585	8.55538	0.1311653	0.24113731	2.5563860	20	7 22.4	20.5
247416 2002 CN_{212}	16.9	X	299.55832	289.32047	0.58079	2.73569	0.1662881	0.28032478	2.3122159	20	4 3.5	19.5
247417 2002 CM_{223}	15.2	X	150.59053	105.71059	319.43028	17.84074	0.2349853	0.17504648	3.1649521	20	4 25.2	20.9
247418 2002 CO_{234}	18.2	X	332.15751	44.24380	316.41517	5.21197	0.1963558	0.30184732	2.2009550	20	10 9.8	19.5
247419 2002 CC_{260}	15.4	X	72.92732	219.49669	34.70623	4.58776	0.1137128	0.18774905	3.0205374	20	9 26.1	19.7
247420 2002 CZ_{261}	15.0	X	274.60352	9.86442	313.91123	11.97483	0.1610643	0.17781543	3.1320096	20	4 17.8	19.9
247421 2002 CD_{272}	12.6	X	201.42274	78.05373	57.00607	12.09166	0.0867970	0.08217397	5.2397817	20	9 7.9	20.0
247422 2002 CQ_{283}	16.6	X	73.21461	30.58114	129.61141	22.95226	0.1351683	0.28438284	2.2901668	20	6 5.3	19.8
247423 2002 CW_{287}	15.2	X	245.69053	345.05712	321.26018	8.78745	0.0699465	0.16944555	3.2343171	20	3 10.4	20.1
247424 2002 CD_{288}	15.6	X	142.22063	286.73856	167.13498	5.66210	0.1135286	0.17412482	3.1761105	20	5 24.3	20.5
247425 2002 CH_{289}	16.4	X	337.07938	132.51776	109.75796	26.03881	0.1451408	0.28002920	2.3138427	20	4 15.6	19.5
247426 2002 CT_{289}	16.8	X	228.33806	56.23105	6.48023	11.40009	0.2601737	0.24271716	2.5452810	20	6 30.5	21.2
247427 2002 CQ_{291}	15.2	X	306.45763	13.23413	12.04458	14.56574	0.0262351	0.18958036	3.0010540	20	9 16.2	19.3
247428 2002 CY_{291}	15.8	X	237.16273	248.96314	132.75717	9.87897	0.1506521	0.18364299	3.0653952	20	5 28.5	20.7
247429 2002 CQ_{292}	16.5	X	310.15560	49.59868	318.51587	7.43407	0.2636402	0.29885488	2.2156227	20	8 13.9	17.4
247430 2002 CM_{302}	15.3	X	248.64705	29.16461	312.98802	8.97430	0.1006040	0.17511342	3.1641454	20	4 20.7	20.3
247431 2002 CK_{304}	16.0	X	286.32260	249.38336	288.58516	14.25831	0.0482374	0.26237865	2.4164829	20	—	—
247432 2002 CL_{307}	16.6	X	276.21102	139.04935	257.55049	4.40507	0.1610258	0.29745069	2.2225902	20	8 5.9	19.0
247433 2002 DX_2	16.7	X	26.03645	204.56043	35.37608	4.61860	0.1134644	0.28514396	2.2860897	20	7 8.0	18.9
247434 2002 DG_4	14.8	X	25.87714	146.00527	99.62114	29.57147	0.2316898	0.17660760	3.1462734	20	7 22.7	18.4
247435 2002 DP_{15}	16.5	X	225.59793	266.79311	157.34367	12.58043	0.0648762	0.23750917	2.5823541	20	7 16.4	20.3
247436 2002 ES_3	17.1	X	300.55237	90.80826	172.49614	6.07563	0.1004838	0.27428057	2.3460613	20	3 10.2	20.0
247437 2002 EJ_{11}	12.5	X	226.52383	123.49595	351.71790	17.98054	0.1134137	0.08220127	5.2386216	20	9 4.4	19.8
247438 2002 EF_{23}	15.5	X	23.73074	289.21573	345.78360	8.76830	0.0608914	0.18202610	3.0835212	20	8 10.3	19.5
247439 2002 EJ_{61}	15.8	X	153.42883	1.46415	175.06292	10.70213	0.0402689	0.18709235	3.0276013	20	9 12.3	20.2
247440 2002 EP_{73}	16.9	X	324.13340	14.02995	206.18711	0.96052	0.1298784	0.26953210	2.3735354	20	2 9.1	19.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
247441 2002 EG_{82}	16.0	X	323.00673	355.95477	199.50880	7.98110	0.1078471	0.21331626	2.7740870	20	1 17.4	19.8
247442 2002 EN_{99}	17.3	X	182.69464	73.35570	58.81384	3.12723	0.2344952	0.24193083	2.5507931	20	8 20.6	21.6
247443 2002 EZ_{117}	15.8	X	41.56754	306.33209	314.13545	3.71521	0.0981649	0.18048412	3.1010592	20	8 18.9	20.0
247444 2002 ED_{134}	16.2	X	227.09421	99.90018	182.14532	5.32997	0.0214526	0.21296212	2.7771616	20	1 20.3	20.2
247445 2002 EP_{154}	15.2	X	134.80215	125.94643	343.79364	12.16585	0.0940003	0.17377834	3.1803307	20	5 30.9	20.3
247446 2002 FL_{13}	16.7	X	332.68820	46.89694	171.90331	8.44624	0.1167702	0.27089314	2.3655786	20	2 21.3	19.2
247447 2002 GE_{19}	15.1	X	142.49461	151.32837	26.36426	12.75963	0.1153559	0.18167368	3.0875077	20	9 9.4	20.1
247448 2002 GL_{19}	16.8	X	321.85287	311.91605	256.11292	1.60498	0.1437626	0.26620286	2.3932840	20	1 18.7	19.7
247449 2002 GF_{36}	17.5	X	264.56153	152.59307	165.39159	1.31039	0.1964255	0.27359584	2.3499740	20	3 26.9	20.9
247450 2002 GW_{36}	16.1	X	32.85390	218.56812	30.10287	12.29365	0.1521254	0.22938631	2.6429628	20	8 8.9	19.4
247451 2002 GP_{37}	17.0	X	268.75601	52.05149	199.98782	2.86827	0.1882219	0.26456466	2.4031534	20	1 9.3	20.8
247452 2002 GK_{41}	16.8	X	272.67382	35.05016	214.07987	4.52376	0.1914323	0.26452136	2.4034157	20	1 8.9	20.6
247453 2002 GH_{59}	16.9	X	252.17643	241.20589	27.65969	1.59536	0.1510721	0.26293983	2.4130434	20	1 18.1	20.6
247454 2002 GF_{70}	16.3	X	86.31132	144.85432	60.50640	6.95693	0.0950265	0.23000720	2.6382043	20	8 14.0	20.0
247455 2002 GX_{72}	16.9	X	254.12617	351.86336	136.52382	3.66712	0.0632287	0.30062156	2.2069337	20	12 5.9	19.3
247456 2002 GY_{90}	16.2	X	304.86502	132.84755	199.84568	5.33510	0.1315254	0.27973549	2.3154620	20	6 22.3	18.5
247457 2002 GA_{98}	17.2	X	15.12287	329.80733	265.64195	4.01691	0.1885164	0.27800976	2.3250342	20	6 14.6	18.7
247458 2002 GX_{102}	17.0	X	90.58923	339.22296	212.03336	1.59253	0.1338303	0.23005711	2.6378227	20	8 2.1	20.7
247459 2002 GA_{116}	16.4	X	97.36604	2.11652	133.71732	4.73526	0.1168009	0.27809525	2.3245577	20	5 27.0	19.3
247460 2002 GE_{118}	16.2	X	185.89583	38.51741	84.88419	8.63405	0.1513235	0.23724283	2.5842864	20	8 16.6	20.4
247461 2002 GH_{127}	17.3	X	314.58368	41.78311	215.11330	3.85130	0.0920472	0.27369441	2.3494097	20	3 21.9	20.2
247462 2002 GO_{140}	16.8	X	308.27413	150.65061	190.93295	5.26059	0.2138056	0.28200719	2.3030106	20	6 28.8	18.9
247463 2002 GQ_{144}	16.4	X	163.24989	104.71432	145.99917	10.62217	0.2001950	0.24643784	2.5195972	20	12 26.6	20.7
247464 2002 GF_{167}	14.9	X	274.88896	264.04296	322.52592	7.25135	0.1211098	0.15421040	3.4439772	20	1 8.7	20.1
247465 2002 HC_{13}	15.6	X	46.36166	73.22522	149.21983	27.90062	0.1209218	0.22547663	2.6734272	20	7 14.1	19.3
247466 2002 JG_{6}	15.1	X	55.79776	133.51363	83.92886	19.77415	0.1071222	0.17082756	3.2168496	20	7 14.9	19.5
247467 2002 JZ_{12}	16.0	X	284.69436	214.44762	69.60628	10.01507	0.1880146	0.21261720	2.7801642	20	3 16.7	20.2
247468 2002 JE_{17}	15.3	X	211.40983	255.10605	229.02830	6.09841	0.1032454	0.18395306	3.0619496	20	9 5.5	20.1
247469 2002 JK_{38}	16.7	X	48.90324	291.71446	329.38965	2.66794	0.1354118	0.23031650	2.6358418	20	9 11.4	20.0
247470 2002 JP_{41}	14.8	X	291.92419	291.80226	17.74823	10.20556	0.3270432	0.21851845	2.7298826	20	4 1.8	18.6
247471 2002 JF_{51}	15.6	X	269.13974	119.80900	240.03882	19.54471	0.2480090	0.27444462	2.3451263	20	5 20.0	19.0
247472 2002 JJ_{61}	16.1	X	150.17389	188.58457	53.75869	7.03939	0.2098964	0.24369054	2.5384986	20	12 4.5	20.5
247473 2002 JZ_{67}	16.4	X	268.68786	26.24356	234.42685	6.28889	0.1896073	0.26207580	2.4183442	20	1 18.9	20.3
247474 2002 JL_{81}	16.8	X	294.51296	200.14501	39.87295	5.38574	0.1798765	0.26583477	2.3954927	20	1 23.1	20.1
247475 2002 JF_{104}	16.4	X	211.13823	228.11928	84.20328	6.93993	0.1332206	0.25962419	2.4335445	20	2 3.9	20.2
247476 2002 JA_{120}	15.2	X	143.99818	82.02013	88.70756	18.16117	0.0580245	0.18006009	3.1059257	20	9 1.6	20.1
247477 2002 JX_{129}	16.1	X	336.82470	210.75134	98.90850	9.21988	0.1879008	0.22410599	2.6843166	20	7 11.3	18.4
247478 2002 JJ_{141}	16.6	X	250.76538	5.47998	253.72535	10.96779	0.2022178	0.25918257	2.4363080	20	1 1.4	20.7
247479 2002 JO_{142}	14.9	X	39.00571	187.00534	41.12150	13.83345	0.0383735	0.16909945	3.2387288	20	6 25.5	19.5
247480 2002 JY_{149}	16.6	X	269.59599	235.32105	82.91062	6.42101	0.0296078	0.27225257	2.3576973	20	4 27.2	19.5
247481 2002 KG	14.5	X	93.54029	108.98895	98.49000	23.32667	0.2115449	0.17670442	3.1451241	20	9 8.1	19.9
247482 2002 KL_{14}	15.0	X	44.51552	79.23988	216.99267	25.89600	0.2495316	0.17540078	3.1606886	20	10 29.3	19.2
247483 2002 LE_{19}	16.3	X	241.97110	85.59503	258.11271	7.82367	0.2760753	0.26494984	2.4008237	20	3 28.8	20.6
247484 2002 LC_{24}	15.6	X	37.24115	206.57742	281.17718	29.73549	0.1840539	0.36898432	1.9251479	20	1 2.9	15.7
247485 2002 LO_{35}	15.9	X	295.60720	109.05016	204.76401	7.39531	0.1814670	0.21576995	2.7530161	20	5 3.6	19.4
247486 2002 LA_{38}	16.6	X	217.75321	231.00740	81.47668	4.08262	0.2170955	0.25912327	2.4366796	20	2 8.9	20.8
247487 2002 LJ_{52}	15.2	X	130.11949	237.57862	122.86183	15.63495	0.2794537	0.19200505	2.9757352	20	2 5.1	20.0
247488 2002 NL_{19}	15.9	X	45.28934	189.46986	135.64922	18.17675	0.2057001	0.22964953	2.6409429	20	12 12.5	20.0
247489 2002 NA_{30}	16.2	X	278.83823	10.64356	294.32040	11.73103	0.1610508	0.20923729	2.8100238	20	3 27.8	20.6
247490 2002 NC_{37}	16.6	X	117.47120	177.29099	205.54919	5.06783	0.2771111	0.24616986	2.5214255	20	2 11.7	20.2
247491 2002 NC_{55}	17.0	X	20.24750	347.87352	328.33149	2.36765	0.2028960	0.22556519	2.6727274	20	10 22.9	20.0
247492 2002 NF_{65}	17.1	X	95.00436	197.92163	68.18670	2.21833	0.1717682	0.23062963	2.6334555	20	11 14.4	21.3
247493 2002 NW_{69}	15.2	X	21.70021	243.74188	143.04369	19.84072	0.2196126	0.17768634	3.1335263	20	—	—
247494 2002 NT_{70}	15.7	X	31.05439	164.01712	143.73784	12.72284	0.0672516	0.17086344	3.2163992	20	10 2.5	20.1
247495 2002 NJ_{72}	16.1	X	113.71682	222.22528	192.78417	6.00074	0.1236448	0.25415381	2.4683399	20	2 27.1	19.4
247496 2002 OP_{1}	16.5	X	29.94015	113.78756	231.92249	11.91119	0.2829702	0.22807232	2.6531044	20	12 26.5	20.3
247497 2002 OF_{14}	16.9	X	137.00511	130.43928	205.80412	6.89697	0.2690960	0.24377949	2.5378811	20	1 5.2	20.9
247498 2002 OW_{25}	15.3	X	192.80175	326.38462	333.51765	13.91432	0.1415947	0.19262604	2.9693363	20	1 12.7	20.2
247499 2002 OD_{32}	15.6	X	69.10172	260.84531	120.75127	12.88598	0.1661202	0.18515498	3.0486842	20	—	—
247500 2002 PH_{34}	15.7	X	1.06100	265.44272	134.68947	24.51721	0.4042995	0.17354297	3.1832057	20	—	—
247501 2002 PS_{40}	15.5	X	28.36088	28.96627	309.32137	13.05757	0.2652419	0.22537651	2.6742188	20	12 13.6	19.2
247502 2002 PK_{43}	17.4	X	286.64727	92.72246	160.98921	23.13863	0.0785524	0.36597990	1.9356696	20	1 26.7	19.9
247503 2002 PV_{60}	14.9	X	10.49240	233.61447	164.54628	27.16264	0.1917602	0.17261741	3.1945743	20	—	—
247504 2002 PN_{70}	16.6	X	142.84149	112.33902	227.47528	6.98859	0.2555052	0.24434341	2.5339748	20	1 12.9	20.6
247505 2002 PB_{89}	14.8	X	31.55015	141.94722	254.06872	14.47104	0.2637374	0.17879629	3.1205445	20	—	—
247506 2002 PQ_{91}	16.5	X	174.12215	275.14308	95.05028	4.78668	0.2251257	0.25333047	2.4736852	20	3 16.2	20.7
247507 2002 PV_{103}	14.7	X	70.03709	159.87630	198.36020	11.24457	0.3041554	0.12455075	3.9710481	20	—	—
247508 2002 PL_{104}	15.2	X	58.12360	154.42467	218.22939	9.34987	0.1857823	0.18041098	3.1018973	20	—	—
247509 2002 PN_{119}	16.4	X	94.53182	307.52190	312.11898	10.55728	0.1312690	0.22788482	2.6545594	20	10 28.4	20.6
247510 2002 PN_{121}	15.6	X	58.00498	132.90507	234.14895	5.61995	0.2254827	0.17874770	3.1211100	20	—	—
247511 2002 PZ_{123}	15.9	X	8.93074	13.69396	350.38042	10.73227	0.2327692	0.22676586	2.6632847	20	12 13.9	19.2
247512 2002 PW_{124}	15.8	X	101.66277	194.97218	150.31054	10.82448	0.1522244	0.18365365	3.0652766	20	—	—
247513 2002 PX_{132}	16.9	X	130.12423	200.69342	155.07348	6.25037	0.2613924	0.24507339	2.5289405	20	1 21.4	20.8
247514 2002 PV_{141}	15.6	X	185.16390	268.46396	318.40032	27.92071	0.0894888	0.23596548	2.5936044	20	12 31.1	19.8
247515 2002 PL_{176}	17.4	X	231.83276	142.62233	211.72190	3.36317	0.1034388	0.26198514	2.4189020	20	4 17.6	20.9
247516 2002 QA	14.6	X	66.69297	1.04537	339.40206	28.34193	0.1892985	0.17529546	3.1619544	20	—	—
247517 2002 QY_{6}	19.7	X	192.40683	355.36058	164.22053	12.75476	0.6991046	1.33478754	0.8169484	20	—	—
247518 2002 QU_{15}	15.7	X	61.31282	90.44110	191.11899	13.35451	0.1540200	0.22439762	2.6819904	20	10 28.1	19.5
247519 2002 QV_{15}	15.8	X	60.23765	101.87988	288.69277	27.97063	0.1984338	0.23472569	2.6027291	20	—	—
247520 2002 QX_{19}	16.4	X	132.10368	48.07759	265.01959	5.59492	0.1077144	0.23865538	2.5740792	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
247521 2002 QJ_{27}	15.7	X	51.58537	24.32482	345.95945	9.54173	0.1557351	0.17905386	3.1175511	20	—	—
247522 2002 QA_{64}	16.7	X	97.91160	233.67696	137.88634	13.54092	0.1549299	0.24157570	2.5532924	20	—	—
247523 2002 QU_{80}	16.5	X	339.91712	317.66741	27.17749	4.86058	0.0741344	0.22004023	2.7172816	20	9 12.1	19.7
247524 2002 QM_{87}	16.6	X	48.03684	284.74865	356.01576	9.08515	0.1109881	0.22164415	2.7041568	20	9 30.6	20.1
247525 2002 QQ_{92}	15.6	X	164.03647	126.04377	346.77415	13.22430	0.0473841	0.21173568	2.7878753	20	7 10.4	19.8
247526 2002 QO_{106}	16.6	X	56.30151	222.01838	173.37201	8.62846	0.1741310	0.23830884	2.5765740	20	—	—
247527 2002 QX_{113}	16.3	X	129.30464	147.50473	226.96986	7.08555	0.1164429	0.19164643	2.9794463	20	1 31.6	20.9
247528 2002 QS_{114}	16.4	X	191.24406	264.83956	293.50869	6.40931	0.1033586	0.23201997	2.6229246	20	11 23.1	20.3
247529 2002 QE_{121}	16.5	X	279.41569	336.74051	300.09939	6.20940	0.1031434	0.20227772	2.8741142	20	3 5.7	20.6
247530 2002 QL_{123}	16.5	X	2.09218	290.88814	347.67753	4.82309	0.0804133	0.21429690	2.7656176	20	7 15.6	19.8
247531 2002 RX_{9}	15.9	X	271.79874	246.44684	333.66117	13.26340	0.0409505	0.24662439	2.5183265	20	—	—
247532 2002 RP_{12}	16.9	X	156.86141	126.56917	179.94354	5.66589	0.2876240	0.24233815	2.5479341	20	—	—
247533 2002 RK_{16}	15.5	X	51.79363	180.00918	181.49069	5.48750	0.1289196	0.17666347	3.1456100	20	—	—
247534 2002 RS_{27}	16.6	X	247.90254	261.56319	147.45094	5.99976	0.0795619	0.21347721	2.7726925	20	7 21.2	20.4
247535 2002 RQ_{36}	17.1	X	118.87284	75.21548	297.02743	4.80158	0.1884133	0.24377999	2.5378777	20	1 21.4	20.6
247536 2002 RV_{55}	16.8	X	87.87244	133.35041	237.25602	3.71743	0.2213606	0.23747769	2.5825823	20	—	—
247537 2002 RV_{61}	15.5	X	19.34854	224.24361	175.69328	16.77702	0.2266405	0.17365088	3.1818867	20	—	—
247538 2002 RF_{66}	15.8	X	21.09342	196.50824	205.62965	34.73552	0.3527739	0.22686937	2.6624746	20	—	—
247539 2002 RK_{70}	16.4	X	81.74588	115.44753	264.10334	7.51042	0.1774385	0.23916339	2.5704328	20	—	—
247540 2002 RN_{81}	16.2	X	314.68599	13.23807	355.19730	7.35701	0.1822828	0.21671469	2.7450092	20	8 24.2	19.0
247541 2002 RO_{110}	15.9	X	259.05107	54.51054	341.33057	12.46334	0.1949212	0.20998692	2.8033321	20	7 3.9	20.2
247542 Ripplrónai	16.9	X	93.04237	348.35586	21.62940	3.81205	0.2430227	0.23740459	2.5831124	20	—	—
247543 2002 RO_{120}	15.8	X	155.00602	173.79394	150.94264	14.98036	0.1138504	0.24307640	2.5427726	20	—	—
247544 2002 RT_{127}	16.3	X	199.82331	58.11907	212.28302	13.53001	0.1219831	0.24460845	2.5321441	20	—	—
247545 2002 RA_{143}	16.5	X	61.99933	340.95076	317.87159	6.45794	0.2297433	0.22693095	2.6619929	20	11 25.9	20.7
247546 2002 RY_{171}	16.4	X	75.31381	341.57194	359.75685	3.93182	0.0315394	0.23137170	2.6278217	20	—	—
247547 2002 RV_{180}	16.5	X	124.32002	156.36742	171.85063	3.72130	0.2186035	0.23834816	2.5762906	20	—	—
247548 2002 RR_{183}	14.9	X	55.40537	171.90995	224.05967	16.84613	0.1220186	0.18023912	3.1038687	20	—	—
247549 2002 RS_{201}	16.8	X	70.53784	268.44848	137.62640	4.77306	0.2287105	0.23983387	2.5656399	20	—	—
247550 2002 RC_{218}	15.5	X	10.34036	333.25213	81.57622	6.09113	0.2020576	0.17694891	3.1422263	20	—	—
247551 2002 RW_{218}	15.6	X	1.65443	271.56405	137.88892	12.33554	0.1591653	0.17644923	3.1481557	20	—	—
247552 2002 RH_{224}	16.6	X	260.60367	166.67902	115.19596	11.46809	0.2278809	0.25644837	2.4535943	20	2 6.7	20.6
247553 Berndpauli	14.6	X	72.48133	14.68402	347.31493	8.67858	0.1541170	0.12446634	3.9728433	20	—	—
247554 2002 RE_{242}	15.9	X	337.52264	164.97162	252.21159	3.52184	0.1458898	0.17334742	3.1855992	20	12 2.2	19.5
247555 2002 RX_{263}	16.1	X	91.01831	246.43485	88.43121	11.25701	0.1364384	0.23130788	2.6283050	20	—	—
247556 2002 RC_{273}	16.1	X	247.65777	327.77851	160.87369	11.41402	0.1520504	0.22667097	2.6640280	20	10 28.9	19.8
247557 2002 RY_{273}	16.3	X	219.46222	289.16448	133.30560	5.49039	0.0549920	0.21274679	2.7790352	20	7 7.2	20.3
247558 2002 RJ_{279}	16.0	X	103.20071	74.63115	291.60661	7.74144	0.1497505	0.18400441	3.0613799	20	—	—
247559 2002 SE_{4}	15.9	X	44.68997	119.83187	227.08247	10.12024	0.2507892	0.22930325	2.6436010	20	—	—
247560 2002 SE_{10}	15.6	X	233.20856	253.64398	10.70966	7.04904	0.1273281	0.18884204	3.0131276	20	1 6.6	20.5
247561 2002 SZ_{11}	16.1	X	130.07190	86.06454	185.11408	11.36300	0.1844942	0.23080913	2.6320899	20	12 20.8	20.7
247562 2002 SX_{13}	15.1	X	302.47891	130.74918	0.03798	15.95293	0.0550767	0.17737944	3.1371398	20	—	—
247563 2002 SY_{24}	14.5	X	92.91708	359.93529	351.76718	7.95535	0.1652752	0.12473492	3.9671383	20	—	—
247564 2002 SQ_{27}	17.0	X	148.78726	208.72206	135.70176	5.28471	0.3063313	0.24369320	2.5384802	20	1 28.9	21.3
247565 2002 SE_{32}	17.1	X	140.27280	289.65719	27.83587	10.88265	0.3067910	0.24041742	2.5614866	20	—	—
247566 2002 SW_{42}	16.5	X	39.42678	36.79488	344.25626	3.34901	0.1588466	0.23040362	2.6351774	20	—	—
247567 2002 SZ_{51}	14.8	X	11.40325	355.60506	23.70849	24.36749	0.1555386	0.17144842	3.2090789	20	12 3.4	19.2
247568 2002 SR_{53}	15.1	X	44.67543	12.20363	332.73412	18.86971	0.1157856	0.16998272	3.2274997	20	12 5.0	20.0
247569 2002 SZ_{63}	17.3	X	43.12775	163.37850	313.11169	21.99759	0.0534195	0.35786228	1.9648321	20	1 13.3	19.1
247570 2002 SJ_{66}	16.3	X	269.82274	244.62568	143.14988	8.51099	0.2363815	0.21269649	2.7794733	20	6 28.4	20.4
247571 2002 SY_{71}	16.0	X	118.44894	254.72247	75.02491	14.78065	0.2263466	0.23681681	2.5873849	20	—	—
247572 2002 SB_{73}	16.6	X	140.73168	37.32142	119.38132	5.24093	0.0152743	0.21486606	2.7607315	20	8 4.8	20.4
247573 2002 TJ_{2}	17.2	X	113.61665	176.09963	205.59771	5.64977	0.2899291	0.24157681	2.5532845	20	2 8.3	21.0
247574 2002 TA_{18}	15.2	X	52.28128	16.87084	12.91101	15.63370	0.0481457	0.17874164	3.1211805	20	—	—
247575 2002 TP_{20}	15.5	X	90.08640	194.39510	193.13402	14.92117	0.0683859	0.18368813	3.0648930	20	—	—
247576 2002 TL_{27}	15.3	X	93.04969	328.46953	12.02705	6.42617	0.0795949	0.17608016	3.1525533	20	—	—
247577 2002 TR_{29}	16.6	X	105.11279	125.10524	203.20590	4.49135	0.2523059	0.23427439	2.6060706	20	—	—
247578 2002 TC_{31}	16.4	X	188.51798	312.88974	32.13091	5.44720	0.1361435	0.24799973	2.5090072	20	2 24.6	20.3
247579 2002 TO_{36}	16.2	X	80.98806	348.64281	19.69884	10.17654	0.1295069	0.23389987	2.6088517	20	—	—
247580 2002 TN_{44}	15.9	X	74.45452	153.19428	199.22202	12.38465	0.1845810	0.23015096	2.6371056	20	—	—
247581 2002 TJ_{46}	15.3	X	311.92651	246.68784	211.65314	27.28833	0.1628216	0.22360815	2.6882994	20	12 24.3	18.7
247582 2002 TR_{47}	16.5	X	137.80997	319.75106	42.59231	5.35980	0.2629351	0.24237053	2.5477071	20	2 8.9	20.6
247583 2002 TW_{50}	16.3	X	111.59248	157.78520	218.53652	11.74378	0.2764948	0.23912830	2.5706842	20	1 27.1	20.1
247584 2002 TY_{56}	15.4	X	29.90582	206.56095	172.07634	9.62983	0.0753328	0.17475451	3.1684763	20	12 24.6	19.9
247585 2002 TU_{64}	15.4	X	141.40183	214.18726	38.32827	28.64169	0.0628744	0.22641982	2.6659976	20	12 1.1	19.7
247586 2002 TA_{85}	17.0	X	92.63337	243.75553	133.83581	5.74591	0.2840494	0.23748485	2.5825304	20	1 9.5	20.0
247587 2002 TW_{88}	16.4	X	81.88226	133.64298	217.38441	11.15551	0.2136996	0.23321701	2.6139417	20	—	—
247588 2002 TW_{92}	16.4	X	273.87655	234.19597	235.33332	5.60234	0.1044675	0.22339287	2.6900262	20	11 12.7	19.7
247589 2002 TF_{125}	16.1	X	173.05669	359.41612	299.19488	8.44645	0.1095993	0.24103921	2.5570796	20	—	—
247590 2002 TN_{137}	16.8	X	136.32171	118.63849	272.60860	5.81845	0.2767812	0.24548778	2.5260938	20	3 9.2	21.0
247591 2002 TS_{154}	15.1	X	42.28167	154.93903	221.02343	10.09308	0.2128309	0.17698065	3.1418506	20	—	—
247592 2002 TB_{158}	16.4	X	164.56626	176.21187	161.92016	14.35396	0.2000199	0.24437156	2.5337802	20	1 25.3	20.6
247593 2002 TE_{171}	16.5	X	158.77986	24.76384	324.82150	11.62132	0.1050704	0.24463165	2.5319840	20	1 28.9	20.2
247594 2002 TL_{177}	15.3	X	354.47944	8.39505	333.11534	17.88252	0.1839260	0.21814744	2.7329770	20	9 28.5	18.3
247595 2002 TR_{179}	16.2	X	106.17389	96.16630	278.66856	12.68523	0.1958962	0.23739717	2.5831663	20	1 10.4	19.5
247596 2002 TP_{185}	15.8	X	125.04820	339.73729	349.32925	15.30545	0.1481654	0.23787541	2.5797029	20	—	—
247597 2002 TZ_{185}	16.8	X	134.19128	18.29633	299.99415	3.91437	0.2854425	0.23936189	2.5690115	20	—	—
247598 2002 TG_{187}	16.4	X	59.52831	118.71928	272.97005	3.83595	0.1201800	0.23497817	2.6008644	20	—	—
247599 2002 TL_{190}	16.1	X	82.98057	285.22822	74.53251	13.39186	0.2250739	0.23312913	2.6145986	20	—	—
247600 2002 TT_{198}	14.6	X	36.06190	117.79120	242.87515	16.38486	0.1870912	0.17293807	3.1906241	20	12 24.5	19.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
247601 2002 TW_{212}	16.3	X	94.35381	280.92385	126.70634	13.27249	0.2558534	0.24178718	2.5518033	20	2 16.9	19.4
247602 2002 TY_{225}	15.9	X	58.62262	174.63602	244.19958	13.29679	0.0823404	0.24092404	2.5578945	20	—	—
247603 2002 TZ_{231}	16.1	X	119.72316	27.91628	285.51948	12.34291	0.1759159	0.23534103	2.5981902	20	—	—
247604 2002 TX_{237}	15.6	X	128.24342	81.72000	240.52005	15.89374	0.2603554	0.23890323	2.5722985	20	—	—
247605 2002 TP_{254}	16.4	X	164.16364	262.50723	61.98751	7.70161	0.2372533	0.24244868	2.5471597	20	1 13.9	20.6
247606 2002 TO_{267}	15.9	X	69.66952	84.23524	244.78908	5.94119	0.1412599	0.22689792	2.6622512	20	12 31.5	19.9
247607 2002 TP_{268}	16.5	X	141.63564	84.43840	255.79964	5.19050	0.1793003	0.24207202	2.5498012	20	1 5.5	20.2
247608 2002 TZ_{272}	16.3	X	142.44844	334.70583	339.65323	8.49712	0.1626936	0.23834884	2.5762857	20	—	—
247609 2002 TK_{277}	16.0	X	202.52064	113.26785	254.32761	4.64627	0.0850704	0.19700154	2.9252050	20	4 5.5	20.5
247610 2002 TQ_{281}	16.2	X	55.65444	102.80590	259.63296	10.62096	0.1262741	0.22864622	2.6486630	20	—	—
247611 2002 TH_{288}	15.9	X	44.55448	160.24424	242.02174	9.27926	0.2235528	0.23077534	2.6323469	20	—	—
247612 2002 TC_{289}	15.6	X	119.35718	90.50137	231.60856	13.64934	0.3406222	0.23490959	2.6013706	20	—	—
247613 2002 TS_{290}	16.0	X	110.90446	105.75137	226.71249	10.61076	0.1952950	0.23389025	2.6089232	20	—	—
247614 2002 TT_{290}	16.1	X	26.34274	152.82763	245.54764	8.45130	0.1294412	0.22806905	2.6531297	20	—	—
247615 2002 TP_{292}	16.3	X	73.36536	340.43732	23.66130	16.08861	0.3182884	0.23204699	2.6227210	20	—	—
247616 2002 TF_{300}	16.7	X	121.07755	266.96118	180.10322	22.42468	0.1219264	0.36229576	1.9487698	20	4 16.7	18.9
247617 2002 TP_{303}	15.6	X	35.01463	82.82794	11.28945	25.53523	0.2397856	0.18231365	3.0802781	20	1 20.2	19.2
247618 2002 TH_{309}	15.9	X	133.89966	244.09651	86.23828	7.58159	0.0363691	0.18103574	3.0947566	20	—	—
247619 2002 TC_{312}	17.0	X	148.16599	265.37248	125.53873	7.61573	0.1249952	0.24743990	2.5127902	20	3 11.8	20.8
247620 2002 TX_{318}	15.7	X	239.43573	242.17572	341.70455	7.77636	0.0375446	0.18430902	3.0580059	20	—	—
247621 2002 TQ_{325}	15.5	X	309.60627	293.63748	182.36791	11.92902	0.0579047	0.17601889	3.1532847	20	—	—
247622 2002 TH_{367}	17.0	X	123.61900	177.29399	114.19365	6.30422	0.2900074	0.23356172	2.6113692	20	—	—
247623 2002 TS_{376}	16.9	X	189.80908	303.07476	332.13640	11.50778	0.1627609	0.24280517	2.5446659	20	—	—
247624 2002 TD_{384}	17.2	X	142.06484	225.92342	80.08370	4.59204	0.2220491	0.23615466	2.5922191	20	—	—
247625 2002 UT_{2}	14.9	X	32.71973	78.22458	283.88757	24.97703	0.2357785	0.16894336	3.2407235	20	12 30.2	19.3
247626 2002 UV_{5}	15.2	X	10.25971	319.98801	73.68895	28.58228	0.2058348	0.17076339	3.2176554	20	12 30.2	19.4
247627 2002 UF_{23}	16.8	X	107.06559	269.48617	73.95778	4.40687	0.2927389	0.23547876	2.5971770	20	—	—
247628 2002 US_{24}	16.1	X	119.25998	274.45791	38.21512	17.65409	0.1940572	0.23309898	2.6148240	20	—	—
247629 2002 UM_{25}	16.3	X	97.87062	66.87579	273.39470	5.20619	0.1163378	0.23291199	2.6162233	20	—	—
247630 2002 UL_{28}	15.4	X	36.70663	316.22978	58.14757	16.84166	0.1888344	0.22674733	2.6634298	20	—	—
247631 2002 UC_{47}	17.1	X	124.22032	225.29045	147.20328	4.87660	0.2565772	0.24168193	2.5525441	20	2 5.3	20.8
247632 2002 UA_{71}	15.5	X	130.16002	146.16281	184.35483	11.33871	0.0954734	0.17904851	3.1176133	20	—	—
247633 2002 VY_{4}	15.4	X	145.45898	284.76398	110.16626	17.41030	0.1162247	0.18259478	3.0771156	20	3 23.2	20.4
247634 2002 VM_{12}	16.5	X	145.58246	24.87529	14.84690	6.64268	0.1044398	0.24700693	2.5157257	20	3 17.1	20.0
247635 2002 VS_{29}	16.1	X	144.38490	142.91017	245.46325	3.31751	0.1934651	0.24422952	2.5347625	20	3 7.1	20.1
247636 2002 VV_{39}	14.8	X	49.24091	158.43737	201.87955	14.66387	0.2544612	0.17128921	3.2110671	20	—	—
247637 2002 VZ_{40}	15.8	X	265.76857	182.97150	268.23590	4.98344	0.0923774	0.21520508	2.7578313	20	10 5.3	19.5
247638 2002 VP_{44}	17.0	X	142.25055	137.07432	209.99789	11.66733	0.3219331	0.24116748	2.5561728	20	1 25.5	21.5
247639 2002 VV_{55}	16.3	X	161.11153	21.54106	342.16460	7.37072	0.2758279	0.24477833	2.5309724	20	2 28.2	20.7
247640 2002 VM_{65}	16.2	X	82.38551	144.87446	211.92886	12.52098	0.2054602	0.23197308	2.6232780	20	—	—
247641 2002 VZ_{76}	15.0	X	17.46050	344.46324	63.93540	23.03636	0.0199022	0.17042784	3.2218775	20	—	—
247642 2002 VH_{92}	15.0	X	14.18636	84.14206	16.21704	25.53951	0.2821523	0.17300422	3.1898107	20	—	—
247643 2002 VQ_{114}	15.6	X	44.10595	213.37936	236.41415	9.56136	0.2066783	0.17833025	3.1259789	20	1 19.9	19.1
247644 2002 VF_{120}	15.6	X	72.35882	313.67583	50.69260	13.15621	0.2436391	0.22826139	2.6516391	20	—	—
247645 2002 VA_{123}	15.6	X	122.80131	71.59018	349.71661	8.75851	0.1462523	0.18851707	3.0123280	20	3 25.4	20.1
247646 2002 VJ_{131}	15.7	X	164.94337	346.22001	315.91826	15.37955	0.2450015	0.24005209	2.5640849	20	—	—
247647 2002 VX_{132}	16.9	X	55.70073	212.10737	185.75311	6.14506	0.1442587	0.23280349	2.6170362	20	—	—
247648 2002 VG_{135}	16.5	X	101.90613	155.93582	185.72066	2.79841	0.2249390	0.23307035	2.6150382	20	—	—
247649 2002 WG_{5}	16.6	X	102.11355	91.90440	260.69053	2.83266	0.2421049	0.23357944	2.6112371	20	—	—
247650 2002 WK_{6}	16.7	X	81.66892	60.30984	307.60764	4.10686	0.1790059	0.23242067	2.6199090	20	—	—
247651 2002 WK_{15}	15.6	X	247.24208	24.90474	93.59561	16.21464	0.1499940	0.21421679	2.7663070	20	10 18.8	19.7
247652 Hajossy	16.6	X	68.34864	49.05810	314.62222	9.92172	0.1698215	0.22916551	2.6446602	20	—	—
247653 2002 WE_{28}	13.1	X	337.89716	204.48474	57.50477	21.80934	0.0839724	0.08445610	5.1449603	20	5 15.5	19.5
247654 2002 XS_{10}	16.1	X	161.68268	118.11153	204.65499	6.22073	0.1224467	0.23591045	2.5940077	20	—	—
247655 2002 XV_{19}	15.3	X	135.21782	87.05959	247.46916	18.24565	0.2196650	0.18072026	3.0983572	20	1 3.2	20.3
247656 2002 XX_{26}	16.0	X	14.81637	141.78618	274.51133	14.85598	0.1495888	0.22854979	2.6494079	20	—	—
247657 2002 XW_{52}	16.3	X	78.14873	108.70607	276.38821	3.97165	0.2817139	0.23196746	2.6233204	20	—	—
247658 2002 XN_{63}	16.3	X	147.50086	335.56692	26.13163	3.94266	0.2946585	0.24128263	2.5553595	20	2 18.3	20.6
247659 2002 XY_{64}	15.8	X	28.10707	290.76158	71.31085	9.96795	0.2456207	0.21979421	2.7193090	20	—	—
247660 2002 XC_{67}	15.8	X	48.94310	39.63502	72.45434	17.08825	0.0673693	0.18230987	3.0803207	20	2 22.8	20.2
247661 2002 XF_{69}	15.1	X	89.20856	26.71115	356.46031	30.71687	0.2128429	0.23105555	2.6302182	20	1 11.6	19.0
247662 2002 XU_{77}	16.0	X	347.57427	234.50227	275.47788	11.34139	0.1076847	0.23219544	2.6216030	20	—	—
247663 2002 XO_{83}	16.4	X	136.34446	312.62712	59.90786	6.03415	0.2414077	0.24006828	2.5639696	20	2 18.5	20.5
247664 2002 XU_{83}	16.1	X	90.91883	202.25266	165.78748	11.09420	0.2425810	0.23402118	2.6079501	20	—	—
247665 2002 XY_{89}	16.6	X	143.39638	209.67748	153.95439	5.86556	0.3655210	0.24265543	2.5457126	20	2 20.8	21.2
247666 2002 XT_{92}	16.6	X	80.21288	24.31043	331.50203	2.13230	0.1766169	0.22967523	2.6407459	20	—	—
247667 2002 XS_{99}	15.8	X	78.29554	352.67093	86.56357	3.77015	0.1556263	0.18218747	3.0817002	20	2 28.5	19.8
247668 2002 XE_{103}	15.5	X	161.23481	115.16298	255.59514	7.68938	0.1138508	0.18608118	3.0385596	20	2 27.8	20.4
247669 2002 XO_{110}	15.4	X	117.36113	162.04300	279.54254	8.40955	0.1111584	0.18886839	3.0085913	20	4 6.6	20.0
247670 2002 XE_{118}	15.5	X	38.45159	23.36641	83.56476	29.09821	0.1138648	0.17982082	3.1086804	20	1 30.4	19.7
247671 2002 YM_{10}	16.5	X	57.49461	102.60235	282.28269	6.20754	0.2846878	0.22772167	2.6558271	20	—	—
247672 2002 YD_{11}	15.4	X	45.73298	296.97000	92.80597	27.05634	0.0707701	0.22482996	2.6785510	20	—	—
247673 2002 YS_{14}	15.4	X	126.44396	312.76742	109.34581	23.19175	0.1643049	0.18438739	3.0571394	20	4 14.0	20.6
247674 2002 YM_{19}	16.1	X	2.98985	78.50434	319.52412	0.52187	0.2500144	0.22171877	2.7035500	20	—	—
247675 2002 YP_{28}	17.2	X	323.65210	49.83063	93.50741	4.72051	0.1049237	0.28181923	2.3040344	20	—	—
247676 2002 YW_{31}	14.5	X	339.46383	245.41346	312.63044	25.45220	0.2394174	0.17326326	3.1866306	20	2 3.9	18.1
247677 2002 YA_{32}	15.3	X	109.45979	143.11278	286.29894	7.73262	0.1647241	0.18257218	3.0773696	20	3 20.9	20.0
247678 2003 AS_{1}	17.0	X	56.25739	215.53226	186.11979	7.00335	0.2560801	0.23107045	2.6301051	20	—	—
247679 2003 AR_{4}	15.1	X	53.63879	91.74692	281.96409	23.17023	0.2288473	0.17371317	3.1811261	20	—	—
247680 2003 AJ_{5}	16.2	X	32.03787	249.24329	161.24782	5.44407	0.2562078	0.22544854	2.6736492	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
247681 2003 AU_{12}	15.4	X	82.73739	165.74486	254.88241	12.98698	0.1433867	0.23417118	2.6068363	20	1 25.9	18.7
247682 2003 AU_{41}	15.4	X	328.86789	294.79673	142.88460	24.88216	0.2381859	0.21656874	2.7462424	20	—	—
247683 2003 AE_{47}	17.0	X	28.83403	51.58828	80.41400	6.09273	0.0863402	0.29120107	2.2542776	20	1 23.3	19.1
247684 2003 AN_{64}	15.7	X	62.54067	64.59659	13.77702	9.79635	0.2178166	0.17756217	3.1349870	20	2 15.9	19.5
247685 2003 AF_{67}	15.3	X	33.71416	6.36509	21.62579	9.20414	0.3423772	0.22264917	2.6960131	20	—	—
247686 2003 AY_{73}	16.1	X	30.67057	42.98153	59.48589	11.78411	0.1010853	0.23140261	2.6275877	20	—	—
247687 2003 AO_{75}	15.5	X	257.32421	240.02949	313.56479	26.93199	0.1079054	0.22208587	2.7005699	20	—	—
247688 2003 BQ_{7}	17.1	X	300.86051	204.15955	299.60088	4.72348	0.1579543	0.27668765	2.3324349	20	—	—
247689 2003 BM_{18}	15.3	X	12.85599	161.66763	312.37585	9.11166	0.0569536	0.16924370	3.2368883	20	1 1.9	19.7
247690 2003 BA_{25}	15.9	X	28.15580	136.37096	282.59900	12.04641	0.2477465	0.22311177	2.6922852	20	—	—
247691 2003 BU_{27}	14.8	X	322.44528	59.08583	148.16095	16.49465	0.1896332	0.17056536	3.2201454	20	1 27.9	19.1
247692 2003 BW_{29}	16.3	X	74.15805	106.55812	301.05897	7.06026	0.1148501	0.22879730	2.6474969	20	—	—
247693 2003 BU_{31}	16.6	X	88.34510	83.13689	337.78345	0.91581	0.2234889	0.23359669	2.6111086	20	2 20.8	19.8
247694 2003 BF_{36}	16.4	X	20.32412	342.24686	130.61548	4.40321	0.1528388	0.22855815	2.6493433	20	—	—
247695 2003 BE_{37}	15.8	X	28.30316	86.11370	160.16809	14.21423	0.1258608	0.18656324	3.0333230	20	7 14.0	19.7
247696 2003 BJ_{43}	15.2	X	142.20899	131.08704	280.69964	14.29343	0.0967578	0.18404703	3.0609072	20	3 23.3	20.1
247697 2003 BE_{51}	15.7	X	52.16583	273.63013	133.62438	12.11081	0.0060139	0.22196733	2.7015313	20	—	—
247698 2003 BZ_{51}	17.0	X	225.61108	337.91469	164.46921	5.58959	0.1816924	0.26450484	2.4035157	20	10 20.4	20.2
247699 2003 BC_{74}	15.9	X	43.62592	319.81619	69.80785	10.73425	0.3161508	0.22406480	2.6846456	20	—	—
247700 2003 BC_{86}	17.6	X	283.13226	320.22597	124.69159	3.77227	0.1474902	0.26763884	2.3847157	20	11 1.5	19.9
247701 2003 CS_{4}	15.2	X	358.08831	71.23355	117.18092	26.93990	0.2154201	0.17682988	3.1436362	20	3 7.2	18.9
247702 2003 CC_{7}	15.7	X	292.32871	176.36447	339.06310	9.33504	0.1027949	0.21824619	2.7321525	20	—	—
247703 2003 CF_{8}	15.0	X	358.07650	248.28686	345.74228	26.08249	0.2526247	0.17827183	3.1266618	20	4 15.3	18.6
247704 2003 CT_{9}	15.4	X	354.28353	142.64671	308.82067	10.78721	0.0930321	0.21946163	2.7220556	20	—	—
247705 2003 CF_{24}	16.5	X	358.64723	62.01816	344.97673	3.69616	0.0653235	0.21279186	2.7786427	20	12 27.7	20.0
247706 2003 DJ_{4}	16.5	X	349.94592	229.64675	261.80057	2.47395	0.2351989	0.22413152	2.6841127	20	—	—
247707 2003 DA_{7}	15.3	X	60.78519	152.79670	9.25170	8.43819	0.0190689	0.18310610	3.0713844	20	4 26.7	19.6
247708 2003 DT_{14}	16.1	X	62.63086	348.34372	154.29638	14.32712	0.2473587	0.18253009	3.0778426	20	5 13.7	20.3
247709 2003 EV_{1}	15.3	X	302.18086	331.67030	3.28853	9.45149	0.1200112	0.18832316	3.0143955	20	6 19.5	19.4
247710 2003 EV_{10}	14.8	X	303.99701	281.27431	340.37902	22.03541	0.0797503	0.17573818	3.1566418	20	3 19.1	19.4
247711 2003 EU_{31}	17.4	X	295.04151	312.07863	222.11453	4.27779	0.1688592	0.27752191	2.3277582	20	—	—
247712 2003 EE_{39}	14.6	X	10.39649	40.71188	148.87716	29.98889	0.2468468	0.17423857	3.1747280	20	4 4.6	18.1
247713 2003 EA_{57}	15.1	X	20.29836	195.65206	34.28771	18.03724	0.1279280	0.18468037	3.0539053	20	6 4.9	19.0
247714 2003 EA_{58}	15.4	X	358.87800	97.65268	129.84872	16.82275	0.2156270	0.23115326	2.6294769	20	4 30.1	18.1
247715 2003 FT_{1}	15.7	X	313.19560	144.31993	341.94256	4.89940	0.0614301	0.21425772	2.7659547	20	—	—
247716 2003 FW_{17}	16.2	X	7.10267	79.47867	343.34453	4.45537	0.0511199	0.21329686	2.7742552	20	—	—
247717 2003 FA_{20}	15.6	X	357.62135	42.46274	133.64967	17.90036	0.2104027	0.17242737	3.1969210	20	2 14.3	18.9
247718 2003 FT_{22}	15.0	X	48.39222	144.51999	4.27389	27.76529	0.1185662	0.17763821	3.1340923	20	4 2.0	19.0
247719 2003 FD_{43}	15.7	X	348.73611	259.94624	9.17896	22.17193	0.0057098	0.23980500	2.5658458	20	6 5.8	19.6
247720 2003 FS_{74}	15.7	X	20.67329	58.15720	170.27522	16.66132	0.1614294	0.17919545	3.1159088	20	6 11.9	19.6
247721 2003 FX_{83}	16.8	X	256.20236	181.78822	333.70170	5.63175	0.1796571	0.26636480	2.3923139	20	12 19.2	19.3
247722 2003 FX_{89}	15.3	X	34.37160	258.64951	346.09134	13.79758	0.0647872	0.18536682	3.0463612	20	7 19.1	19.5
247723 2003 FW_{90}	15.0	X	32.91779	239.91617	319.50101	8.34819	0.1583593	0.17806661	3.1290636	20	5 20.9	18.9
247724 2003 FM_{98}	15.2	X	339.67021	296.51638	331.79525	11.68394	0.1468391	0.17922274	3.1155925	20	5 14.6	19.1
247725 2003 FC_{123}	16.2	X	248.19712	150.78183	24.90455	8.48003	0.1556912	0.21064438	2.7974959	20	12 20.6	20.0
247726 2003 FM_{131}	15.6	X	253.96200	4.95776	356.37937	10.62404	0.0203938	0.18287724	3.0739463	20	6 2.2	20.1
247727 2003 GC_{21}	15.1	X	304.95305	192.05286	141.07843	14.06054	0.0196367	0.18474052	3.0532423	20	7 4.6	19.4
247728 2003 GX_{23}	17.5	X	278.28622	315.01988	227.84309	4.18506	0.1680185	0.27253120	2.3560901	20	—	—
247729 2003 GG_{30}	17.6	X	37.60710	170.85597	129.85096	4.42875	0.2120795	0.30576581	2.1821106	20	11 17.3	20.3
247730 2003 GK_{51}	15.1	X	285.32291	174.00450	81.36352	11.03543	0.1177856	0.16974852	3.2304676	20	2 24.1	19.9
247731 2003 HN_{6}	17.4	X	237.61786	219.24252	65.11333	3.72681	0.1528805	0.27743238	2.3282590	20	1 21.9	21.1
247732 2003 HZ_{18}	15.5	X	1.75776	255.19264	45.55189	13.84372	0.1521249	0.18579692	3.0416579	20	8 22.8	19.2
247733 2003 HW_{19}	17.1	X	20.04763	42.18751	228.62503	7.35449	0.1496786	0.29843253	2.2177127	20	8 18.4	19.3
247734 2003 HD_{27}	15.3	X	23.12313	217.16352	68.26988	8.70084	0.1287568	0.18537041	3.0463217	20	9 2.9	19.2
247735 2003 HY_{37}	16.9	X	66.99554	332.81985	337.34993	3.56646	0.1935665	0.30996813	2.1623435	20	12 28.4	20.0
247736 2003 HP_{51}	15.3	X	1.45852	44.83436	229.37340	15.06751	0.1671161	0.17980868	3.1088203	20	7 4.8	19.0
247737 2003 JD_{10}	15.7	X	359.89956	146.96294	137.14461	5.41794	0.2347792	0.18036260	3.1024519	20	7 21.7	18.5
247738 2003 KX_{1}	15.9	X	261.21489	320.79881	125.42198	11.59528	0.0504280	0.19144187	2.9815683	20	10 2.5	20.1
247739 2003 KZ_{34}	16.5	X	319.37703	253.73996	76.20526	9.07641	0.1712987	0.29325949	2.2437166	20	7 13.6	18.2
247740 2003 LY_{3}	16.0	X	243.75614	57.58642	255.73821	20.70568	0.2884987	0.27716984	2.3297290	20	2 14.6	20.6
247741 2003 LM_{5}	17.1	X	14.13855	79.23875	232.22586	3.87106	0.1584933	0.30256163	2.1974895	20	10 16.9	19.2
247742 2003 LJ_{6}	16.1	X	55.53927	341.99296	289.62074	13.95417	0.2707369	0.24234244	2.5479040	20	10 19.2	20.1
247743 2003 MX_{7}	16.0	X	310.60093	29.48712	315.70016	27.02295	0.2977287	0.28667730	2.2779307	20	7 2.0	18.2
247744 2003 ME_{9}	15.5	X	336.43216	13.69983	285.15367	14.10292	0.1642941	0.22884414	2.6471356	20	6 26.0	18.1
247745 2003 NX_{8}	16.6	X	347.29846	131.15807	181.56826	21.84430	0.2879012	0.28884818	2.2665030	20	8 28.3	17.8
247746 2003 NK_{10}	16.1	X	271.80177	168.29076	178.48172	6.79532	0.0409035	0.22507593	2.6765992	20	6 6.5	19.8
247747 2003 OT_{10}	16.3	X	96.96756	186.03484	87.90188	4.68701	0.1744085	0.24626283	2.5207908	20	11 28.6	20.2
247748 2003 OL_{16}	15.8	X	230.28472	68.61662	328.37730	22.60886	0.3267198	0.27533710	2.3400559	20	5 18.7	20.5
247749 2003 OT_{18}	16.0	X	64.55621	357.58251	276.02158	14.46917	0.1725723	0.24022233	2.5628733	20	10 19.5	19.9
247750 2003 OW_{21}	14.6	X	339.88727	241.04500	181.55087	25.77664	0.3167762	0.17897042	3.1185201	20	12 28.3	18.0
247751 2003 OG_{24}	17.1	X	252.71552	110.50879	249.84781	3.41991	0.1819786	0.28144223	2.3060915	20	5 10.0	20.5
247752 2003 OE_{31}	16.9	X	214.59895	138.61592	237.99165	2.52247	0.2621046	0.27324669	2.3519754	20	4 20.5	21.1
247753 2003 PE	16.9	X	3.31291	345.24749	340.00115	6.35660	0.2468455	0.29547240	2.2324998	20	10 30.4	18.8
247754 2003 PU	16.1	X	289.32663	319.11750	332.39626	23.55474	0.1294284	0.27579576	2.3374607	20	3 18.5	19.5
247755 2003 PA_{1}	15.5	X	316.51538	147.78827	157.08960	29.80515	0.1316198	0.22352667	2.6889526	20	6 6.0	19.5
247756 2003 PH_{5}	16.8	X	220.54945	340.08832	292.95908	4.61331	0.2126423	0.26612591	2.3937453	20	—	—
247757 2003 PM_{8}	17.2	X	355.68102	166.90833	156.45984	5.71146	0.2159948	0.29303113	2.2448821	20	10 9.7	18.7
247758 2003 QH_{4}	16.8	X	276.82218	106.69792	238.72628	2.07280	0.1317542	0.28225172	2.3016802	20	5 27.2	19.5
247759 2003 QE_{5}	16.2	X	165.80753	10.54529	319.08457	13.15238	0.2749326	0.26028260	2.4294388	20	1 22.7	20.3
247760 2003 QN_{5}	16.1	X	204.60368	106.05161	287.13234	20.93288	0.3140747	0.27288360	2.3540612	20	4 26.1	20.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
247761 2003 QC_{11}	15.8	X	351.52280	51.24628	280.95107	10.50668	0.2070116	0.23556279	2.5965594	20	9 16.5	18.4
247762 2003 QF_{15}	15.3	X	53.07147	21.43451	312.47089	13.45518	0.1042611	0.18421733	3.0590206	20	12 4.7	19.9
247763 2003 QX_{17}	14.6	X	240.93884	342.63985	348.66705	16.05751	0.1345291	0.15638137	3.4120290	20	3 28.6	20.0
247764 2003 QL_{26}	17.3	X	317.51981	13.85249	296.91149	4.69585	0.2189927	0.28472303	2.2883423	20	5 26.4	19.3
247765 2003 QU_{40}	16.6	X	292.92734	12.60744	320.79659	6.44853	0.1390963	0.28363261	2.2942035	20	5 31.4	19.2
247766 2003 QJ_{52}	17.1	X	282.62363	303.56758	18.38993	3.11933	0.2638292	0.28069612	2.3101762	20	4 11.6	20.0
247767 2003 QN_{52}	16.2	X	25.08044	215.32554	93.61176	4.50850	0.2530500	0.23760656	2.5816484	20	11 3.5	19.2
247768 2003 QB_{54}	17.3	X	245.97312	297.56151	46.96560	2.95110	0.2242444	0.27625241	2.3348841	20	4 9.6	21.0
247769 2003 QE_{66}	16.9	X	235.74185	50.95707	314.89582	3.04985	0.1962900	0.27681973	2.3316930	20	4 27.6	20.6
247770 2003 QA_{74}	16.9	X	252.45995	96.32679	284.89537	4.67308	0.1758541	0.28254471	2.3000888	20	6 8.5	20.1
247771 2003 QO_{87}	16.4	X	276.19740	14.12281	334.90848	6.45399	0.1511825	0.28140300	2.3063059	20	5 26.7	19.4
247772 2003 QM_{90}	16.4	X	269.65806	15.35372	335.77600	5.71673	0.1908368	0.27917942	2.3185357	20	5 14.4	19.5
247773 2003 QM_{100}	17.1	X	247.09790	154.50105	179.17067	4.53330	0.1284764	0.27537336	2.3398505	20	4 4.9	20.3
247774 2003 QZ_{101}	16.5	X	69.98763	315.73599	327.37310	7.17072	0.1567471	0.24087993	2.5582068	20	11 7.6	20.3
247775 2003 QW_{105}	16.1	X	316.10867	282.40848	353.46904	23.15909	0.2653792	0.27853526	2.3221090	20	3 19.9	18.8
247776 2003 QL_{107}	16.3	X	24.38686	264.84958	92.74903	8.65204	0.1428672	0.24140905	2.5544673	20	12 18.8	19.3
247777 2003 QR_{110}	17.0	X	225.85841	338.87156	28.45566	5.39594	0.2338120	0.27565755	2.3382420	20	4 19.5	20.9
247778 2003 RF	16.6	X	242.99500	63.74594	316.29388	22.25874	0.2338529	0.27905347	2.3192332	20	5 14.9	20.8
247779 2003 RU	17.0	X	262.39174	92.38524	299.75205	21.35343	0.3020650	0.28412307	2.2915626	20	6 21.1	20.5
247780 2003 RA_{1}	16.4	X	190.85453	277.85619	97.55141	6.51721	0.1806489	0.26896524	2.3768692	20	4 4.7	20.3
247781 2003 RQ_{4}	16.5	X	203.85953	148.08003	230.13861	6.00284	0.1232898	0.27233825	2.3572029	20	4 16.5	20.0
247782 2003 RZ_{7}	16.9	X	257.50736	80.84919	248.20075	6.04491	0.1394761	0.27555755	2.3388077	20	4 6.4	20.3
247783 2003 RE_{11}	17.0	X	18.56686	184.62719	113.74121	6.88619	0.1805548	0.29274688	2.2463351	20	10 11.4	19.3
247784 2003 RR_{13}	14.6	X	312.25566	107.12842	326.84068	25.48227	0.2210078	0.17886910	3.1196976	20	10 20.5	18.6
247785 2003 RK_{17}	15.7	X	22.95847	80.16847	193.77028	26.03370	0.3418604	0.23214116	2.6220116	20	9 23.5	18.5
247786 2003 SR_{8}	16.7	X	190.62478	341.28241	190.52471	4.65602	0.0782984	0.23563838	2.5960040	20	10 24.9	20.4
247787 2003 SL_{13}	16.6	X	196.32479	51.11681	359.45411	5.94753	0.1488747	0.27557559	2.3387056	20	5 20.1	20.3
247788 2003 SE_{28}	16.4	X	36.86998	290.32091	346.89876	27.18897	0.1953591	0.23196878	2.6233104	20	9 20.2	19.7
247789 2003 SL_{38}	16.7	X	273.57958	13.24574	287.82309	8.13654	0.1702617	0.27311172	2.3527502	20	3 12.8	20.1
247790 2003 SZ_{38}	16.7	X	357.34427	99.67262	296.15660	7.71588	0.1706696	0.23915222	2.5705128	20	—	—
247791 2003 SK_{39}	17.3	X	227.05745	179.65489	205.97883	1.71736	0.2152174	0.27582994	2.3372677	20	5 15.4	20.9
247792 2003 SM_{40}	16.7	X	216.98056	65.01677	295.62932	3.20725	0.1754608	0.27103754	2.3647383	20	4 4.4	20.4
247793 2003 SR_{43}	16.6	X	153.94126	92.35380	323.98093	5.92741	0.0933386	0.27106684	2.3645679	20	4 10.3	20.1
247794 2003 SR_{46}	17.2	X	244.35272	191.44894	200.78180	2.53338	0.2447584	0.27935696	2.3175533	20	6 6.9	20.7
247795 2003 SX_{54}	16.7	X	303.88916	117.36562	254.57071	4.71138	0.1823750	0.28736087	2.2743168	20	8 14.0	18.6
247796 2003 SL_{59}	17.2	X	179.37751	29.61017	301.96101	14.66928	0.2416737	0.26435727	2.4044101	20	1 30.5	21.3
247797 2003 SN_{60}	17.0	X	299.28135	104.31814	287.92324	2.00236	0.1666562	0.28920719	2.2646269	20	9 11.4	18.7
247798 2003 SR_{60}	17.3	X	199.48309	300.37458	345.29171	10.17698	0.2542137	0.26120958	2.4236877	20	—	—
247799 2003 SR_{69}	16.1	X	255.18739	113.15263	191.25639	8.50219	0.1904976	0.21190013	2.7864328	20	3 4.2	20.5
247800 2003 SF_{72}	16.2	X	230.09248	66.01770	272.46309	3.23692	0.0757087	0.21269960	2.7794461	20	3 29.6	20.4
247801 2003 SF_{74}	16.2	X	115.03497	201.11380	201.11999	7.89689	0.2046783	0.20077853	2.8884035	20	2 28.4	20.6
247802 2003 SD_{76}	15.5	X	256.82007	334.11747	2.02938	7.50952	0.0692396	0.21461671	2.7628694	20	4 26.7	19.5
247803 2003 SD_{89}	17.6	X	257.35451	168.08625	171.39032	5.44625	0.1856318	0.27735427	2.3286961	20	4 18.6	21.0
247804 2003 SS_{90}	16.7	X	269.89885	231.69243	107.79923	6.10078	0.2449136	0.27798588	2.3251674	20	4 26.6	20.1
247805 2003 SF_{96}	17.0	X	243.30272	173.57706	180.85886	5.47485	0.2168104	0.27582230	2.3373108	20	4 20.9	20.7
247806 2003 SV_{105}	15.9	X	207.09435	64.50889	260.46161	6.92815	0.2275304	0.26625096	2.3929957	20	2 10.8	20.2
247807 2003 SD_{110}	16.8	X	234.86867	25.31954	339.28243	4.36921	0.1694830	0.27359544	2.3499763	20	4 26.8	20.4
247808 2003 SS_{110}	17.0	X	304.39232	147.05875	199.98482	4.92182	0.1976861	0.28285029	2.2984319	20	7 2.6	19.1
247809 2003 SN_{111}	16.1	X	306.60292	317.56065	322.60492	23.83103	0.1311565	0.27564100	2.3383356	20	3 22.5	19.4
247810 2003 SE_{117}	16.7	X	358.93687	318.38620	331.36979	2.87515	0.2214273	0.28532511	2.2851220	20	8 15.2	17.9
247811 2003 SY_{121}	17.3	X	229.43796	66.21671	302.03841	5.66207	0.1467292	0.27606186	2.3359584	20	4 27.0	20.9
247812 2003 SB_{124}	16.5	X	214.24215	265.96398	82.75982	5.62423	0.2139425	0.26888544	2.3773394	20	3 21.9	20.6
247813 2003 SW_{137}	16.7	X	244.41312	11.60140	352.97574	4.06612	0.2383551	0.27537777	2.3398255	20	4 30.7	20.5
247814 2003 SF_{141}	15.2	X	312.73934	105.72975	315.68008	15.19396	0.2108814	0.17742222	3.1366355	20	10 11.8	19.0
247815 2003 SS_{142}	16.7	X	305.96778	214.61611	147.97490	5.27785	0.1806593	0.28453462	2.2893524	20	8 4.6	18.5
247816 2003 SQ_{144}	16.2	X	315.48996	99.62137	241.36255	10.93706	0.2241948	0.28536565	2.2849056	20	7 10.6	18.0
247817 2003 SF_{147}	15.2	X	198.24933	108.40776	235.23013	9.56304	0.1106545	0.20461914	2.8521468	20	2 29.1	19.9
247818 2003 SX_{150}	16.6	X	278.09872	238.63926	89.34996	7.65188	0.1452017	0.27804358	2.3248457	20	5 4.6	19.5
247819 2003 SM_{154}	16.2	X	231.16180	144.63084	216.04021	5.88930	0.1312436	0.27261072	2.3556319	20	4 22.5	19.4
247820 2003 SC_{156}	15.6	X	139.26638	164.87371	189.09732	5.71805	0.0834265	0.19769332	2.9183770	20	1 14.7	19.9
247821 2003 SN_{170}	15.2	X	73.21491	84.55161	198.18510	11.46458	0.1258198	0.17622473	3.1508288	20	10 30.7	19.8
247822 2003 SH_{180}	17.4	X	249.34694	23.72770	351.04024	4.78695	0.2986018	0.28024366	2.3126621	20	5 12.7	21.1
247823 2003 SG_{185}	14.5	X	51.47909	133.81887	11.37360	9.67080	0.0213749	0.15071694	3.4969923	20	3 29.7	19.4
247824 2003 SD_{187}	16.2	X	314.36809	116.97925	174.76267	8.77391	0.1585782	0.21962937	2.7206694	20	5 6.9	19.5
247825 2003 SF_{190}	16.9	X	272.51968	211.21256	129.14667	10.24211	0.2478555	0.27879680	2.3206565	20	5 1.8	20.3
247826 2003 SC_{193}	15.4	X	3.36748	90.76282	263.05817	8.41226	0.0644847	0.17477948	3.1681745	20	10 15.5	19.8
247827 2003 SN_{198}	16.5	X	286.31225	123.35009	235.37773	6.73595	0.2780672	0.28231248	2.3013499	20	6 4.9	19.2
247828 2003 SD_{208}	17.3	X	254.21096	135.52468	211.22471	5.95824	0.1571643	0.27850468	2.3222790	20	4 26.8	20.5
247829 2003 SQ_{217}	16.5	X	167.89327	2.38143	45.97075	5.92131	0.2238844	0.26664773	2.3906213	20	4 24.6	20.4
247830 2003 SG_{218}	16.5	X	255.04546	146.92279	191.96225	4.02448	0.0798253	0.21314365	2.7755844	20	4 29.8	20.5
247831 2003 SP_{232}	17.2	X	236.10982	206.30442	145.54811	3.01313	0.2328721	0.27297099	2.3535588	20	4 10.1	21.1
247832 2003 SW_{245}	16.3	X	304.31233	133.49635	188.89808	7.03262	0.1076987	0.22164886	2.7041185	20	6 9.1	19.8
247833 2003 SO_{251}	16.4	X	138.42095	184.75792	215.62989	9.88283	0.2056792	0.26027724	2.4294721	20	3 15.1	20.2
247834 2003 SF_{254}	16.0	X	138.27486	297.55701	314.22383	7.82655	0.1326031	0.23900583	2.5715623	20	12 5.8	20.2
247835 2003 ST_{255}	17.2	X	247.85510	312.93517	21.71491	2.08540	0.1694914	0.27177158	2.3604783	20	4 3.0	20.5
247836 2003 SA_{258}	17.0	X	274.60879	300.00547	327.51423	9.09008	0.2394572	0.27048181	2.3679762	20	1 30.3	20.8
247837 2003 SV_{266}	17.1	X	189.72464	208.65377	170.32621	4.14812	0.1136890	0.26875940	2.3780826	20	4 4.9	20.5
247838 2003 SF_{275}	17.0	X	270.59926	134.55618	169.41476	1.86778	0.0567197	0.27215752	2.3582463	20	4 2.3	19.8
247839 2003 SJ_{280}	17.0	X	229.50663	294.65250	70.83761	5.78564	0.2576578	0.27401249	2.3475912	20	4 20.9	21.0
247840 2003 SK_{282}	17.0	X	290.12639	75.40074	220.03044	1.91263	0.2356501	0.27582795	2.3372789	20	3 19.3	20.2

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247841 2003 SQ_{283}	15.2	X	309.87203	118.01167	321.02271	15.90657	0.2143388	0.17963592	3.1108131	20	10 31.6	18.9
247842 2003 SM_{292}	15.6	X	79.64051	162.55665	249.79016	10.64570	0.1143139	0.19598480	2.9353132	20	1 15.7	19.5
247843 2003 ST_{318}	17.0	X	259.33482	282.29591	14.70921	6.50790	0.1344651	0.27040988	2.3683961	20	3 2.8	20.3
247844 2003 SZ_{318}	17.2	X	162.76168	88.00813	332.63571	2.18109	0.1668210	0.26907013	2.3762514	20	5 1.9	20.8
247845 2003 SA_{322}	17.3	X	119.69562	233.39091	57.21517	11.56736	0.1172771	0.24373473	2.5381918	20	—	—
247846 2003 SS_{350}	16.2	X	126.29540	164.71462	279.55890	3.38648	0.0738154	0.21064081	2.7975275	20	4 17.2	20.3
247847 2003 SH_{352}	17.7	X	253.19789	279.90903	29.52151	2.80801	0.2296021	0.27069858	2.3667119	20	3 3.4	21.4
247848 2003 SF_{369}	17.5	X	284.62994	83.34178	206.94255	3.73993	0.1361184	0.27427210	2.3461096	20	3 19.7	20.6
247849 2003 SX_{412}	17.0	X	131.32645	275.42522	7.35808	10.39349	0.1044375	0.24427110	2.5344749	20	—	—
247850 2003 SX_{418}	16.7	X	200.09662	12.69535	130.74707	10.39484	0.0633976	0.22879477	2.6475163	20	10 3.4	20.6
247851 2003 TY_{5}	17.2	X	252.99214	318.17060	331.70135	3.80904	0.1997596	0.26558742	2.3969798	20	2 10.0	21.1
247852 2003 TY_{11}	15.9	X	75.75670	65.74837	35.94544	8.88053	0.2145817	0.25827358	2.4420210	20	3 27.2	18.5
247853 2003 TN_{18}	16.8	X	213.82350	149.26074	244.02769	2.07817	0.2258957	0.27263655	2.3554831	20	5 12.6	20.5
247854 2003 TV_{19}	15.3	X	24.12489	60.15436	338.47930	2.03146	0.2717945	0.12273250	4.0101720	20	—	—
247855 2003 UC_{4}	16.5	X	260.27455	0.13363	334.70258	8.78088	0.2832298	0.27487140	2.3426982	20	4 1.0	20.3
247856 2003 UR_{7}	14.9	X	2.40131	171.17607	202.27756	16.72881	0.1518961	0.18048941	3.1009986	20	11 22.0	18.8
247857 2003 UN_{36}	15.9	X	84.83481	331.19911	343.63434	13.60584	0.0778112	0.23963173	2.5670826	20	12 29.2	19.8
247858 2003 UA_{38}	17.2	X	250.08011	268.73088	95.92886	8.46832	0.2862448	0.27815679	2.3242148	20	5 6.1	21.0
247859 2003 UJ_{47}	16.5	X	215.89023	176.57183	175.00377	7.34013	0.1459986	0.26906131	2.3763034	20	3 26.3	20.1
247860 2003 UM_{47}	16.5	X	194.06809	282.59019	129.48653	8.64843	0.1819607	0.27085096	2.3658242	20	5 23.3	20.4
247861 2003 UB_{53}	15.5	X	144.42353	303.19889	317.70389	13.30991	0.1805916	0.24153182	2.5536017	20	12 23.6	19.9
247862 2003 UL_{55}	16.3	X	300.58644	50.25536	292.02185	4.24468	0.2009860	0.28000610	2.3139700	20	6 17.3	18.6
247863 2003 UQ_{74}	15.7	X	338.79586	24.64589	240.94015	10.06217	0.0644572	0.21459264	2.7630760	20	5 19.5	19.2
247864 2003 UC_{76}	15.5	X	34.29905	313.90250	358.77568	7.88683	0.0979377	0.17394398	3.1783114	20	10 12.2	19.7
247865 2003 UD_{80}	17.0	X	202.87782	247.01061	142.70354	8.08372	0.2203666	0.27028074	2.3691505	20	5 2.3	21.1
247866 2003 UH_{82}	16.9	X	260.85682	257.38166	38.89198	5.65589	0.2019253	0.27048557	2.3679543	20	2 26.8	20.6
247867 2003 UU_{94}	17.4	X	236.04966	114.24020	209.67684	6.33580	0.2283218	0.26958119	2.3732473	20	3 3.7	21.3
247868 2003 UY_{98}	16.2	X	162.12106	311.66287	38.14411	16.64457	0.1378114	0.25782140	2.4448754	20	2 8.6	20.2
247869 2003 UW_{108}	16.0	X	43.77766	175.26525	224.62261	4.36726	0.1702810	0.18585088	3.0410692	20	—	—
247870 2003 UU_{110}	16.4	X	69.55089	222.01710	207.48048	9.05571	0.1384536	0.19347774	2.9606158	20	1 26.0	20.2
247871 2003 UA_{121}	17.4	X	263.94224	253.16013	58.11233	3.23895	0.2007830	0.27222053	2.3578823	20	3 18.6	20.9
247872 2003 UH_{135}	15.5	X	244.94965	280.49694	197.06899	10.61986	0.0318842	0.17360879	3.1824011	20	10 16.4	20.0
247873 2003 UH_{141}	17.2	X	244.47657	197.19377	143.67621	8.21424	0.2280363	0.27421148	2.3464554	20	4 5.7	21.0
247874 2003 UJ_{145}	17.2	X	249.65285	274.51194	90.18059	2.05609	0.2230525	0.27485134	2.3428122	20	5 9.2	20.8
247875 2003 UO_{145}	17.3	X	217.55821	178.93600	184.55647	1.99116	0.2121357	0.26917976	2.3756062	20	4 9.2	21.3
247876 2003 UP_{151}	15.5	X	19.50241	326.60259	67.89445	9.11726	0.2326734	0.18153695	3.0890578	20	—	—
247877 2003 UU_{152}	16.2	X	215.51781	300.40829	69.37395	21.27085	0.3387646	0.27004062	2.3705547	20	4 20.6	20.9
247878 2003 UX_{153}	16.3	X	292.69516	275.09179	35.18625	4.33865	0.0789873	0.21429711	2.7656157	20	5 9.7	20.0
247879 2003 UR_{161}	14.9	X	50.92161	236.93947	150.68650	1.46739	0.2667408	0.12573221	3.9461327	20	—	—
247880 2003 UW_{162}	17.2	X	221.19528	304.53783	66.44134	3.98029	0.1824578	0.27139789	2.3626446	20	4 23.9	20.8
247881 2003 UG_{169}	15.8	X	72.96994	10.11865	37.72672	10.08277	0.2462975	0.19047381	2.9916621	20	1 25.7	19.5
247882 2003 UN_{171}	16.6	X	286.64712	134.25982	194.25025	4.40323	0.1805838	0.27606287	2.3359527	20	5 9.6	19.5
247883 2003 UF_{178}	15.2	X	42.07230	269.85092	17.64505	18.23637	0.1467598	0.17159926	3.2071980	20	10 1.9	19.4
247884 2003 UV_{183}	17.4	X	201.33312	229.89667	158.81387	0.43764	0.2281679	0.27030568	2.3690048	20	4 26.7	21.4
247885 2003 UU_{184}	16.6	X	230.96791	280.18023	21.81435	6.89685	0.1794743	0.26312383	2.4119183	20	2 9.1	20.6
247886 2003 UR_{191}	16.8	X	56.49287	42.81652	298.18632	6.55889	0.1426417	0.23976901	2.5661026	20	—	—
247887 2003 UK_{195}	16.1	X	136.36322	243.50930	234.13794	6.42244	0.1712062	0.20891153	2.8129441	20	6 19.8	20.7
247888 2003 UJ_{207}	16.9	X	257.71136	94.31234	258.32154	2.58339	0.2205546	0.27567533	2.3381414	20	4 30.6	20.5
247889 2003 UA_{210}	16.9	X	205.53929	129.83184	259.41951	2.45099	0.1751098	0.27031010	2.3689789	20	5 1.6	20.5
247890 2003 UY_{216}	15.5	X	27.70539	320.56163	8.70011	10.39252	0.0277295	0.17395357	3.1781945	20	10 15.3	20.0
247891 2003 UB_{222}	17.6	X	211.90481	248.46332	145.47089	5.07742	0.2385027	0.27267619	2.3552548	20	5 13.1	21.5
247892 2003 UA_{226}	17.8	X	235.86984	72.48515	350.80903	3.23113	0.1557549	0.27938496	2.3173984	20	7 21.0	20.8
247893 2003 UX_{228}	14.4	X	43.05662	136.76743	246.55429	7.93990	0.2685264	0.12342827	3.9950875	20	—	—
247894 2003 UN_{236}	17.5	X	200.42513	242.23124	133.55697	2.62298	0.1917058	0.26793729	2.3829446	20	4 11.4	21.3
247895 2003 UC_{243}	15.2	X	95.31548	325.38987	49.02890	13.74978	0.0340114	0.18980951	2.9986382	20	—	—
247896 2003 UG_{243}	15.4	X	262.46006	79.08993	18.71449	19.11546	0.1524668	0.17089190	3.2160422	20	9 29.4	19.9
247897 2003 UD_{244}	15.6	X	262.72330	279.05383	46.60015	7.96765	0.2036520	0.21053867	2.7984323	20	4 8.8	20.0
247898 2003 UV_{246}	16.3	X	15.24334	143.34333	219.46406	10.79015	0.1845741	0.23430796	2.6058216	20	12 16.9	19.6
247899 2003 UV_{249}	16.6	X	179.20025	277.47437	125.75817	3.54310	0.1911391	0.26724011	2.3870872	20	4 27.9	20.5
247900 2003 UL_{275}	15.2	X	66.78748	350.23334	14.71535	2.28187	0.3062416	0.12628981	3.9345086	20	—	—
247901 2003 UF_{277}	15.7	X	216.26218	280.13536	19.53055	13.06437	0.0727444	0.20004927	2.8954189	20	2 4.9	20.3
247902 2003 UJ_{281}	16.5	X	160.56938	353.58169	48.68071	9.04022	0.2077074	0.20442554	2.8539473	20	4 14.2	21.3
247903 2003 UO_{296}	17.5	X	13.88029	106.54127	186.01464	1.81182	0.1330745	0.28623706	2.2802658	20	9 9.5	19.4
247904 2003 UC_{315}	16.8	X	242.60647	234.41592	122.68878	2.92664	0.2194876	0.27147724	2.3621842	20	4 23.8	20.4
247905 2003 UE_{338}	16.5	X	297.65565	219.10468	17.60477	6.35191	0.0155283	0.20510588	2.8476327	20	2 24.1	20.4
247906 2003 UR_{353}	16.8	X	269.89657	231.91971	83.35559	5.55152	0.0592670	0.21289684	2.7777292	20	4 21.9	20.6
247907 2003 UE_{373}	15.9	X	51.67680	272.19625	256.51419	7.60383	0.0620599	0.21584946	2.7523399	20	4 26.9	19.5
247908 2003 VS	16.0	X	202.21548	120.47406	351.91803	23.36351	0.3112415	0.27698100	2.3307878	20	8 16.9	20.3
247909 2003 VA_{5}	17.3	X	172.77650	234.81337	168.40968	1.35151	0.1820605	0.26613403	2.3936967	20	4 20.8	21.2
247910 2003 VC_{11}	15.9	X	34.51963	65.06674	248.27761	7.58053	0.0606354	0.22879710	2.6474984	20	10 17.9	19.5
247911 2003 VO_{12}	15.6	X	62.40167	85.31833	288.06524	16.25227	0.2088827	0.18564387	3.0433295	20	—	—
247912 2003 WO_{22}	15.8	X	286.19848	236.00315	262.18592	15.74890	0.0921010	0.23951153	2.5679413	20	—	—
247913 2003 WA_{27}	15.9	X	64.90202	48.61158	26.19679	10.21090	0.1032079	0.19269936	2.9685830	20	1 27.9	19.8
247914 2003 WN_{29}	15.5	X	64.68135	103.42755	267.55237	7.70499	0.1481495	0.18430223	3.0580810	20	—	—
247915 2003 WT_{29}	15.8	X	79.11680	2.49018	25.85256	8.79773	0.1307226	0.18868196	3.0105728	20	—	—
247916 2003 WO_{34}	15.7	X	275.14284	57.42145	258.76908	6.64928	0.2200730	0.21161339	2.7889493	20	4 2.7	19.9
247917 2003 WJ_{38}	16.7	X	230.36031	109.75988	274.02637	8.19394	0.2091346	0.27243332	2.3566544	20	5 14.9	20.5
247918 2003 WB_{47}	16.8	X	245.79432	207.41903	29.37888	2.60462	0.1563362	0.25313439	2.4749624	20	—	—
247919 2003 WK_{57}	17.4	X	198.89546	67.86705	322.93343	0.79285	0.1687677	0.26930415	2.3748746	20	4 27.8	21.2
247920 2003 WF_{65}	14.9	X	55.51983	170.94663	211.08229	2.15847	0.2403144	0.12397479	3.9833376	20	—	—

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	m		°	°	°	°		°				
247921 2003 WA_{67}	16.1	X	321.94787	214.59175	249.41600	7.45799	0.2411521	0.17648137	3.1477735	20	—	—
247922 2003 WO_{67}	15.8	X	328.00999	52.49476	44.08881	5.24336	0.1176003	0.17794847	3.1304484	20	—	—
247923 2003 WF_{71}	15.6	X	332.79068	93.62150	347.38949	15.05360	0.2336248	0.17759557	3.1345940	20	—	—
247924 2003 WH_{74}	15.5	X	62.89315	167.88335	260.56101	9.46123	0.1149707	0.18943812	3.0025561	20	1 13.8	19.2
247925 2003 WD_{87}	15.6	X	72.23759	41.37865	333.41546	11.79306	0.3570081	0.24571231	2.5245546	20	—	—
247926 2003 WU_{100}	15.8	X	295.61911	42.06659	291.22352	15.12266	0.2768213	0.22103174	2.7091494	20	5 9.9	19.8
247927 2003 WR_{101}	16.9	X	212.26299	114.40948	220.54990	3.71965	0.1718963	0.26421898	2.4052490	20	2 28.8	20.9
247928 2003 WT_{125}	14.9	X	334.99375	189.90142	276.98524	23.21152	0.1943764	0.17700344	3.1415809	20	—	—
247929 2003 WZ_{132}	16.8	X	250.22102	161.02931	194.87399	1.63831	0.2381840	0.27317814	2.3523689	20	4 26.6	20.4
247930 2003 WK_{136}	17.0	X	66.90358	301.66654	69.13210	15.08529	0.2794394	0.24408504	2.5357627	20	—	—
247931 2003 WG_{146}	16.1	X	178.37973	108.43534	352.53975	15.53333	0.2191907	0.21257996	2.7804889	20	7 10.4	21.1
247932 2003 WB_{159}	15.6	X	137.85496	282.90601	57.53146	9.80465	0.1260199	0.19176218	2.9782472	20	1 4.2	20.1
247933 2003 WL_{162}	16.2	X	171.81223	273.53247	106.38868	11.45286	0.1778099	0.26232535	2.4168102	20	3 26.9	20.2
247934 2003 WJ_{189}	15.4	X	201.08474	13.90368	337.30324	16.95702	0.1080663	0.20418028	2.8562323	20	3 12.6	19.9
247935 2003 WS_{190}	15.5	X	99.54349	272.83817	124.51233	21.98825	0.2061130	0.19261125	2.9694883	20	2 9.5	19.7
247936 2003 XJ_{1}	16.9	X	161.24865	268.91021	137.73776	6.85825	0.2086221	0.26321452	2.4113643	20	4 18.6	20.9
247937 2003 XQ_{14}	15.5	X	207.87294	165.96576	330.20010	11.20611	0.3021352	0.21664278	2.7456167	20	9 5.7	20.4
247938 2003 XK_{16}	15.1	X	328.25907	325.63501	225.46198	13.89818	0.1020808	0.19166910	2.9792114	20	1 21.3	19.4
247939 2003 XW_{17}	16.3	X	221.08886	346.50529	352.70115	8.77041	0.2604344	0.26130348	2.4231070	20	3 12.0	20.3
247940 2003 XX_{21}	15.9	X	325.01678	254.51855	238.47114	8.82079	0.2285433	0.17972835	3.1097466	20	—	—
247941 2003 XN_{42}	15.4	X	347.42146	53.66152	31.75914	18.91450	0.1775968	0.17892429	3.1190561	20	—	—
247942 2003 XM_{43}	15.4	X	12.56602	275.57122	108.41789	25.96800	0.2970307	0.17444244	3.1722540	20	—	—
247943 2003 YH_{7}	15.1	X	65.75005	253.67307	102.69389	15.71074	0.3155537	0.17874218	3.1211743	20	—	—
247944 2003 YO_{10}	15.1	X	278.66204	89.48522	62.99605	14.11623	0.1592532	0.17452308	3.1712767	20	12 23.2	19.2
247945 2003 YU_{12}	16.0	X	231.36710	73.62912	75.97834	12.04190	0.1280964	0.22406486	2.6846451	20	11 7.4	19.8
247946 2003 YE_{20}	12.8	X	310.37142	1.44944	301.60380	27.80510	0.0667758	0.08249514	5.2261734	20	5 27.3	19.8
247947 2003 YP_{20}	16.3	X	30.25933	57.32665	91.75216	9.94864	0.0498426	0.19062132	2.9901185	20	3 9.4	20.4
247948 2003 YD_{28}	15.4	X	30.62638	299.07334	85.37784	10.59958	0.2177773	0.17960902	3.1111237	20	—	—
247949 2003 YN_{33}	15.5	X	35.71345	308.57650	89.41685	10.81187	0.1551876	0.18300046	3.0725663	20	—	—
247950 2003 YE_{40}	15.6	X	283.14450	291.11358	295.30650	14.19623	0.1687697	0.24341775	2.5403948	20	—	—
247951 2003 YR_{43}	15.2	X	31.58413	314.11500	113.52395	17.40782	0.0759730	0.17901540	3.1179977	20	—	—
247952 2003 YE_{46}	15.8	X	112.66985	241.00851	72.86112	22.90845	0.0614130	0.23447529	2.6045817	20	—	—
247953 2003 YF_{63}	16.7	X	109.62697	268.53300	240.84284	3.39873	0.1687216	0.26418300	2.4054673	20	7 4.9	20.2
247954 2003 YP_{67}	15.2	X	115.39824	255.57961	77.28803	9.95346	0.1390194	0.18493069	3.0511488	20	—	—
247955 2003 YW_{70}	17.1	X	190.17830	59.67204	57.71947	5.30997	0.1826896	0.27595870	2.3365405	20	8 13.6	20.8
247956 2003 YC_{77}	15.3	X	2.85681	18.14189	83.66129	10.07031	0.0476680	0.18104521	3.0946487	20	—	—
247957 2003 YH_{79}	15.2	X	11.41592	348.63459	90.70456	12.15037	0.0836900	0.17843016	3.1248118	20	—	—
247958 2003 YH_{99}	15.3	X	352.82650	327.90038	97.55969	18.35501	0.0805447	0.17548043	3.1597320	20	—	—
247959 2003 YX_{106}	15.7	X	358.24014	290.50775	122.64922	22.26991	0.0735523	0.23000659	2.6382090	20	—	—
247960 2003 YL_{117}	17.5	X	334.95167	170.51970	102.78278	24.92471	0.0278946	0.38458785	1.8727178	20	6 2.8	19.4
247961 2003 YA_{123}	14.7	X	309.46292	295.97446	93.99511	16.84317	0.0901850	0.16130120	3.3422914	20	9 21.2	19.4
247962 2003 YZ_{130}	15.9	X	93.75497	163.30255	315.83203	6.71723	0.2195700	0.19774974	2.9178218	20	5 12.4	20.2
247963 2003 YY_{136}	16.0	X	262.80351	160.89917	228.65997	21.42858	0.2251646	0.27772403	2.3266287	20	6 22.9	19.5
247964 2003 YF_{139}	15.9	X	248.62224	129.21666	281.62457	15.27327	0.2530667	0.21947355	2.7219570	20	7 3.2	20.0
247965 2003 YO_{148}	15.5	X	333.84511	68.42073	39.24722	12.60890	0.1173059	0.17646274	3.1479950	20	—	—
247966 2003 YQ_{148}	16.0	X	82.45686	47.50816	10.92595	11.16802	0.1411954	0.24712748	2.5149075	20	1 28.4	19.1
247967 2003 YD_{149}	12.5	X	267.70171	15.49012	327.49367	26.98123	0.0146022	0.08304013	5.2032823	20	5 25.6	19.8
247968 2003 YN_{150}	17.0	X	209.75839	25.13936	47.93048	5.76592	0.2049501	0.27089969	2.3655404	20	7 1.1	20.7
247969 2004 AG_{17}	12.5	X	272.31488	32.56362	293.73748	16.99889	0.0968820	0.08112354	5.2849162	20	4 30.9	19.8
247970 2004 AJ_{20}	16.8	X	328.96375	19.65657	319.70886	3.97152	0.0832222	0.21357970	2.7718054	20	8 14.2	20.0
247971 2004 BA_{48}	15.0	X	197.19654	166.50338	116.95004	19.12709	0.1066063	0.18024948	3.1037498	20	—	—
247972 2004 BB_{73}	16.4	X	70.54048	125.87490	289.89945	9.44761	0.1057719	0.24288691	2.5440949	20	—	—
247973 2004 BJ_{84}	15.8	X	301.78814	252.95882	229.65266	12.36116	0.1894012	0.23043335	2.6349507	20	—	—
247974 2004 BR_{101}	16.0	X	158.04532	327.72976	301.68215	10.06743	0.0843861	0.22920099	2.6443872	20	—	—
247975 2004 BZ_{101}	15.2	X	317.77277	244.28996	312.33103	25.07963	0.2265569	0.17942498	3.1132508	20	1 7.5	19.7
247976 2004 BF_{102}	15.6	X	62.30740	306.78383	169.82191	16.50102	0.0771427	0.18508011	3.0495064	20	3 11.4	19.7
247977 2004 BK_{104}	15.0	X	20.03922	139.26370	286.74802	26.64105	0.1818475	0.17824202	3.1270103	20	—	—
247978 2004 BJ_{105}	15.9	X	102.98315	322.72507	135.50678	15.56676	0.1262224	0.19339017	2.9615095	20	4 22.7	20.4
247979 2004 CM_{5}	15.9	X	303.86120	350.00506	77.60635	6.28827	0.0423993	0.22080400	2.7110119	20	11 8.8	19.3
247980 2004 CF_{14}	16.0	X	36.24926	59.39831	302.42407	4.99816	0.0367685	0.22364984	2.6879653	20	12 19.3	19.5
247981 2004 CT_{16}	15.7	X	34.36526	337.91862	336.25142	6.30564	0.0858610	0.21490819	2.7603707	20	10 19.3	19.3
247982 2004 CE_{18}	15.7	X	66.23331	335.46426	335.94371	13.25875	0.0850276	0.22059623	2.7127139	20	11 25.6	19.9
247983 2004 CZ_{32}	16.0	X	4.95930	291.83881	113.97553	4.12175	0.1548601	0.17128937	3.2110651	20	—	—
247984 2004 CL_{71}	15.8	X	359.43548	3.78268	131.99449	7.43114	0.1294874	0.18023323	3.1039364	20	1 1.2	19.7
247985 2004 CB_{72}	15.9	X	197.91499	34.37352	101.29930	8.95569	0.1696410	0.21241431	2.7819343	20	9 10.4	20.5
247986 2004 CU_{77}	16.1	X	66.50650	328.85778	301.90023	2.58747	0.0590547	0.21266328	2.7797626	20	10 2.4	19.9
247987 2004 CV_{77}	15.8	X	44.93998	174.82112	151.45693	9.68325	0.0978653	0.21920133	2.7242101	20	11 25.6	19.7
247988 2004 CF_{78}	16.5	X	38.26954	42.99398	324.31735	6.90158	0.0387385	0.22511954	2.6762536	20	12 30.1	20.1
247989 2004 CW_{91}	15.9	X	107.38567	287.44437	317.80686	8.76009	0.1362946	0.21596241	2.7513802	20	10 22.9	20.3
247990 2004 CG_{118}	16.3	X	10.63926	49.75082	139.64747	2.68417	0.1216526	0.19010191	2.9955626	20	3 29.0	19.8
247991 2004 CA_{122}	16.8	X	15.94687	33.29359	13.28722	3.29079	0.0622793	0.22875823	2.6477983	20	—	—
247992 2004 CF_{122}	15.9	X	96.88246	348.62122	265.28648	5.26910	0.0766017	0.21301593	2.7766938	20	10 19.0	19.9
247993 2004 CL_{123}	16.5	X	112.63702	350.34010	310.97938	1.48976	0.0695386	0.22543212	2.6737791	20	—	—
247994 2004 CO_{128}	15.9	X	85.24541	75.36318	234.03071	6.76006	0.0421191	0.22029522	2.7151844	20	12 13.5	19.7
247995 2004 DJ_{10}	16.1	X	276.46986	205.47601	275.13234	2.56216	0.1256039	0.22390616	2.6859135	20	11 28.6	19.1
247996 2004 DV_{12}	15.6	X	247.66391	91.22220	6.40295	9.10476	0.1573943	0.21429322	2.7656492	20	9 14.2	19.5
247997 2004 DT_{22}	15.8	X	358.61766	309.27971	146.98292	14.80888	0.2727390	0.17464119	3.1698467	20	—	—
247998 2004 DS_{46}	15.4	X	325.01720	258.61243	318.03314	12.10617	0.1374782	0.18313045	3.0711121	20	2 17.1	19.4
247999 2004 DN_{55}	16.7	X	44.79664	36.30106	322.95904	5.69960	0.0494603	0.22482122	2.6786205	20	12 29.4	20.3
248000 2004 DX_{59}	16.2	X	78.57782	306.11335	333.22151	3.14525	0.0667184	0.21459720	2.7630369	20	10 29.6	20.0