Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
232001 2001 SW_{71}	16.9	X	1.96912	223.97930	156.04887	2.13256	0.2414441	0.26381968	2.4076754	20	—	—
232002 2001 SE_{88}	15.6	X	151.20988	339.58194	317.66184	3.33736	0.1643955	0.17430750	3.1738909	20	—	—
232003 2001 SA_{104}	15.4	X	182.31154	321.93823	297.04512	3.34711	0.1251881	0.17286207	3.1915592	20	—	—
232004 2001 SS_{117}	16.5	X	353.63051	219.03032	247.99230	4.26977	0.1127720	0.27767109	2.3269244	20	—	—
232005 2001 SP_{122}	15.6	X	296.50217	130.47307	191.62668	16.30428	0.1137108	0.19746572	2.9206190	20	5 27.9	19.7
232006 2001 SZ_{127}	15.3	X	208.60956	297.44410	350.39589	8.62923	0.1413064	0.18038156	3.1022345	20	1 13.1	20.4
232007 2001 SR_{134}	17.5	X	114.05805	156.97181	201.40245	2.21908	0.2070641	0.27998307	2.3140969	20	—	—
232008 2001 SC_{140}	14.9	X	207.71907	256.85707	7.43519	14.58576	0.2494029	0.17718833	3.1393950	20	—	—
232009 2001 SZ_{180}	15.0	X	171.34306	121.25538	158.51444	19.40294	0.0833902	0.17601554	3.1533248	20	—	—
232010 2001 SD_{181}	15.5	X	171.17958	108.23275	168.74110	1.48533	0.1477621	0.17615029	3.1517165	20	—	—
232011 2001 SQ_{193}	17.2	X	320.36130	251.73309	357.50524	5.24825	0.0901777	0.29659127	2.2268817	20	3 18.7	19.6
232012 2001 SB_{200}	17.5	X	3.06458	298.67155	172.77770	5.87900	0.0729987	0.27962165	2.3160905	20	—	—
232013 2001 SJ_{206}	16.8	X	339.28077	168.18093	0.05142	6.82708	0.0666664	0.28495811	2.2870836	20	—	—
232014 2001 SV_{245}	17.0	X	62.34481	221.93580	178.85968	4.04288	0.1586870	0.27508549	2.3414826	20	—	—
232015 2001 SG_{256}	17.5	X	191.24434	159.36802	168.18860	3.94061	0.1839842	0.28644302	2.2791726	20	1 31.2	21.2
232016 2001 SV_{262}	17.1	X	67.13285	102.91203	324.10617	18.41899	0.1396632	0.38522951	1.8706377	20	—	—
232017 2001 SZ_{264}	17.1	X	50.62760	261.03021	101.68039	2.48988	0.1863437	0.26991196	2.3713080	20	—	—
232018 2001 SF_{271}	15.4	X	108.21449	153.65154	193.75102	4.08697	0.1637616	0.17165041	3.2065608	20	—	—
232019 2001 SE_{301}	16.4	X	204.41122	131.65506	271.70728	4.49073	0.1160309	0.24520786	2.5280158	20	5 21.5	20.1
232020 2001 SB_{321}	17.1	X	302.10947	266.38967	9.66329	5.00524	0.2039689	0.29778300	2.2209363	20	3 12.2	19.5
232021 2001 SC_{330}	17.6	X	330.89481	216.29235	208.36484	0.51189	0.1719159	0.26733342	2.3865317	20	—	—
232022 2001 SJ_{347}	16.8	X	348.83390	135.16377	332.19335	7.20981	0.0585866	0.27517675	2.3409649	20	—	—
232023 2001 TP_{13}	16.4	X	339.62426	351.56260	96.41713	7.18598	0.2067254	0.26920890	2.3754347	20	—	—
232024 2001 TL_{32}	16.8	X	2.21557	43.86882	348.00184	6.57990	0.1893036	0.26388894	2.4072540	20	—	—
232025 2001 TD_{33}	16.3	X	55.15163	40.08255	335.47259	6.55703	0.1195983	0.26925374	2.3751710	20	—	—
232026 2001 TT_{41}	16.4	X	305.27340	90.32210	348.91877	6.54992	0.2994885	0.25816239	2.4427221	20	11 20.9	17.6
232027 2001 TZ_{42}	15.6	X	222.96678	132.49311	281.43589	11.25992	0.2691439	0.24244925	2.5471556	20	6 13.3	19.9
232028 2001 TN_{53}	17.2	X	344.83281	327.33603	91.97704	2.45315	0.1688355	0.26655918	2.3911507	20	—	—
232029 2001 TY_{94}	16.7	X	15.65232	40.38820	347.37361	4.82024	0.2011058	0.26712517	2.3877719	20	—	—
232030 2001 TY_{95}	16.6	X	66.02887	110.47410	254.53204	4.05951	0.1592003	0.27190436	2.3597098	20	—	—
232031 2001 TF_{96}	17.1	X	171.86001	18.54321	298.19895	1.49725	0.1937208	0.28246303	2.3005321	20	1 2.2	20.3
232032 2001 TW_{125}	16.5	X	244.21143	341.22381	312.49270	7.90205	0.1659536	0.28981067	2.2614820	20	2 5.7	19.9
232033 2001 TA_{144}	17.2	X	329.40993	348.31858	98.45048	3.53980	0.1802155	0.26759908	2.3849520	20	—	—
232034 2001 TL_{148}	15.1	X	288.48389	157.29059	57.13681	12.47215	0.0202152	0.17627728	3.1502026	20	1 19.9	19.7
232035 2001 TE_{154}	16.7	X	152.63796	198.72467	118.47376	6.61628	0.1842738	0.28148057	2.3058821	20	—	—
232036 2001 TH_{163}	17.2	X	333.17642	66.72453	18.94117	3.59448	0.1152003	0.26897160	2.3768317	20	—	—
232037 2001 TL_{187}	16.6	X	313.47488	127.56728	331.55747	5.87177	0.0992003	0.26517885	2.3994413	20	—	—
232038 2001 TY_{189}	16.8	X	354.76729	56.81592	356.30044	4.61693	0.0989707	0.26550087	2.3975007	20	—	—
232039 2001 TZ_{191}	16.5	X	96.87487	11.63032	318.94557	3.85732	0.2738676	0.27199449	2.3591885	20	—	—
232040 2001 TP_{205}	16.7	X	69.49455	261.13542	97.98415	8.78205	0.1432737	0.27201707	2.3590580	20	—	—
232041 2001 TR_{217}	16.9	X	358.52109	147.59764	306.18634	3.04991	0.1759744	0.27312738	2.3526603	20	—	—
232042 2001 TH_{219}	16.8	X	168.03178	209.61272	97.24416	3.72882	0.1826373	0.28070462	2.3101296	20	—	—
232043 2001 TB_{222}	17.2	X	6.03076	78.01838	338.46853	3.48083	0.1386614	0.26823861	2.3811597	20	—	—
232044 2001 TS_{253}	15.3	X	191.72079	123.09373	131.62779	6.59257	0.1305532	0.17039432	3.2223000	20	—	—
232045 2001 TB_{258}	17.2	X	33.15646	274.51880	153.02785	6.60073	0.0773363	0.27639775	2.3340656	20	—	—
232046 2001 UQ_{2}	16.8	X	346.78156	273.07563	124.16406	2.92667	0.2466379	0.26172425	2.4205092	20	—	—
232047 2001 UU_{8}	17.2	X	329.00486	19.71291	17.61858	2.75000	0.1835657	0.26048901	2.4281552	20	11 19.5	19.0
232048 2001 UB_{11}	16.0	X	275.35955	289.88288	70.72478	12.39119	0.1262325	0.24562415	2.5251586	20	6 15.9	19.2
232049 2001 UA_{13}	16.7	X	359.38991	301.21618	96.40407	3.33279	0.1990076	0.26388959	2.4072501	20	—	—
232050 2001 UG_{26}	16.5	X	66.74520	23.42393	353.43619	5.91762	0.1245436	0.27248584	2.3563516	20	—	—
232051 2001 UZ_{28}	16.5	X	7.95391	34.46571	48.01252	6.94043	0.0997387	0.27292678	2.3538130	20	—	—
232052 2001 UK_{40}	17.5	X	309.65276	273.75049	161.50914	2.86016	0.1805776	0.26228471	2.4170598	20	12 6.7	19.5
232053 2001 UQ_{72}	16.1	X	330.52028	352.68360	97.63393	12.66901	0.2044223	0.26629316	2.3927429	20	—	—
232054 2001 UT_{86}	17.5	X	300.63130	64.69481	0.86452	1.27827	0.1553732	0.25929407	2.4356095	20	10 31.8	19.6
232055 2001 UU_{87}	17.6	X	314.86794	39.17971	53.59267	1.99062	0.1921811	0.26574316	2.3960433	20	—	—
232056 2001 UW_{94}	16.7	X	232.73542	318.37660	80.54087	10.47763	0.2041908	0.24582669	2.5237715	20	6 7.9	20.7
232057 2001 UB_{98}	17.6	X	43.06363	209.35879	138.32655	1.78687	0.2033268	0.26671455	2.3902220	20	—	—
232058 2001 UL_{108}	17.4	X	302.03663	38.60958	48.48275	1.27983	0.2035820	0.26128967	2.4231924	20	12 5.7	19.2
232059 2001 UP_{108}	16.3	X	291.33276	52.06118	53.80713	14.92159	0.1358620	0.26224076	2.4173299	20	12 14.0	18.8
232060 2001 UF_{118}	16.6	X	304.03232	246.84654	201.31076	3.75264	0.1613645	0.26173720	2.4204294	20	12 13.9	18.7
232061 2001 UW_{126}	16.6	X	332.11995	354.94120	83.79179	5.95505	0.2042353	0.26521442	2.3992268	20	—	—
232062 2001 UA_{144}	17.3	X	321.63448	44.58165	64.23994	3.19343	0.1851888	0.26683847	2.3894820	20	—	—
232063 2001 UZ_{150}	16.7	X	311.46455	3.35171	79.93144	4.28921	0.1212311	0.26201748	2.4187030	20	12 21.4	18.9
232064 2001 UM_{206}	17.5	X	340.40104	119.08572	321.96040	1.72231	0.1877365	0.26862495	2.3788761	20	—	—
232065 2001 UW_{207}	15.4	X	335.36433	135.37014	31.81550	15.80500	0.1542425	0.17434701	3.1734114	20	1 3.0	19.7
232066 2001 UN_{220}	16.5	X	280.61878	114.12124	29.54169	4.79928	0.1956580	0.26512237	2.3997820	20	—	—
232067 2001 UR_{220}	15.2	X	256.41904	38.08472	251.31750	4.14357	0.1346499	0.18168274	3.0874050	20	2 23.9	20.0
232068 2001 VM_{2}	17.7	X	14.61454	43.91128	55.03900	23.43309	0.0726355	0.38040312	1.8864270	20	—	—
232069 2001 VE_{9}	16.3	X	64.99734	73.65451	266.39975	4.33421	0.2501123	0.26733596	2.3865166	20	—	—
232070 2001 VA_{17}	16.7	X	57.13454	49.59603	312.26243	12.84249	0.2647378	0.27062647	2.3671323	20	—	—
232071 2001 VS_{17}	16.8	X	315.29334	61.03811	22.17499	2.43242	0.1871710	0.26308924	2.4121297	20	—	—
232072 2001 VE_{19}	17.1	X	316.92799	179.32730	249.82804	2.00584	0.1616535	0.26164064	2.4210249	20	12 12.3	19.1
232073 2001 VN_{22}	17.3	X	105.67396	313.92432	33.10720	2.76701	0.2492089	0.27488588	2.3426159	20	—	—
232074 2001 VH_{40}	16.3	X	271.03968	59.30736	64.42266	7.39296	0.0710481	0.26033790	2.4290947	20	12 11.6	19.0
232075 2001 VZ_{47}	15.0	X	311.33184	314.82718	23.10621	2.39635	0.1709751	0.24714609	2.5147813	20	7 5.2	17.5
232076 2001 VS_{53}	16.7	X	23.71311	132.82450	253.37332	4.56961	0.1256508	0.26708438	2.3880150	20	—	—
232077 2001 VY_{103}	16.9	X	299.58018	183.62398	295.71140	1.52026	0.1643283	0.26422580	2.4052076	20	—	—
232078 2001 VV_{104}	17.3	X	351.25679	35.83307	52.75099	2.02043	0.1496414	0.26857055	2.3791973	20	—	—
232079 2001 VQ_{113}	14.5	X	167.95759	292.73289	62.39212	27.25235	0.1529474	0.17649996	3.1475524	20	3 8.4	20.1
232080 2001 VW_{113}	16.4	X	211.31240	44.38578	43.12375	7.37564	0.1157235	0.24645592	2.5194740	20	7 29.7	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		°	°	°	°		°				
232081 2001 WD_{14}	15.8	X	226.30682	269.05759	152.25648	6.72223	0.2440733	0.24312115	2.5424606	20	6 27.1	20.1
232082 2001 WS_{26}	17.1	X	288.88331	288.31241	159.36516	1.66120	0.1515599	0.25931939	2.4354509	20	11 12.3	19.3
232083 2001 WS_{44}	17.6	X	43.18496	213.37695	182.43218	2.11539	0.2064930	0.27013117	2.3700249	20	—	—
232084 2001 WS_{47}	15.3	X	145.47286	317.23230	95.22659	11.09453	0.0976170	0.18132124	3.0915072	20	4 10.2	20.2
232085 2001 WC_{49}	17.4	X	295.89891	103.87084	356.56590	0.98886	0.1514587	0.26067820	2.4269802	20	12 15.2	19.6
232086 2001 WL_{54}	17.2	X	319.93706	79.88256	37.26639	5.40445	0.1844844	0.26724239	2.3870736	20	—	—
232087 2001 WW_{84}	16.8	X	55.69933	231.98798	85.74679	3.81107	0.2064602	0.26213271	2.4179941	20	12 18.3	20.2
232088 2001 WA_{94}	15.3	X	100.18464	23.78740	70.10212	4.09535	0.2196129	0.12582080	3.9442801	20	4 24.1	21.1
232089 2001 WP_{98}	15.1	X	177.88444	159.86212	203.63100	12.60725	0.1280052	0.17931690	3.1145017	20	3 8.2	20.2
232090 2001 XY_{16}	16.6	X	176.39323	72.95106	14.72866	3.76695	0.1671432	0.23995967	2.5647432	20	6 19.5	20.9
232091 2001 XC_{31}	17.1	X	94.22524	91.60965	296.15072	19.01330	0.1425379	0.37999706	1.8877706	20	—	—
232092 2001 XS_{33}	16.9	X	17.82291	248.18692	106.51756	2.48935	0.1857471	0.26001013	2.4311357	20	12 17.8	19.6
232093 2001 XV_{46}	15.5	X	180.34142	138.12817	0.39855	9.05156	0.0900304	0.24456220	2.5324633	20	9 2.1	19.2
232094 2001 XP_{54}	17.1	X	306.01950	24.98582	71.51595	2.51190	0.1513150	0.26124943	2.4234412	20	12 30.6	19.1
232095 2001 XV_{91}	17.0	X	283.60249	60.74799	52.76258	3.02648	0.1323969	0.26104716	2.4246928	20	12 12.2	19.3
232096 2001 XN_{107}	16.8	X	311.41566	58.31884	73.91901	7.03571	0.0739195	0.26682219	2.3895791	20	—	—
232097 2001 XH_{110}	17.1	X	294.45497	208.40446	225.58017	2.23841	0.1866170	0.25816991	2.4426747	20	10 28.4	18.9
232098 2001 XR_{132}	16.9	X	207.24858	172.85209	234.32270	5.18626	0.2117627	0.24155223	2.5534578	20	5 25.8	21.1
232099 2001 XY_{133}	17.4	X	281.53693	42.34565	83.18900	1.92159	0.1678416	0.26086118	2.4258452	20	12 22.4	19.5
232100 2001 XG_{141}	17.3	X	277.17210	353.09481	138.38803	1.80105	0.1374443	0.26176660	2.4202481	20	12 26.4	19.8
232101 2001 XR_{143}	17.0	X	228.33500	290.73728	76.85763	6.34789	0.2615912	0.24180773	2.5516587	20	4 23.7	21.4
232102 2001 XV_{178}	16.2	X	248.17870	131.23465	256.75575	4.27372	0.1494920	0.24181652	2.5515969	20	6 15.7	19.8
232103 2001 XN_{204}	17.0	X	281.09461	319.24954	117.21507	5.95692	0.1665528	0.25592058	2.4569665	20	10 11.8	19.6
232104 2001 XQ_{206}	16.6	X	346.92791	244.65568	133.88143	5.16291	0.1929568	0.25889033	2.4381411	20	12 1.5	18.8
232105 2001 XT_{217}	17.5	X	9.74174	130.30445	283.62775	17.21496	0.1168531	0.36904413	1.9249399	20	—	—
232106 2001 XK_{220}	17.4	X	318.20991	39.44765	7.76341	2.35850	0.2142022	0.25861021	2.4399014	20	11 9.2	18.9
232107 2001 XP_{224}	17.2	X	203.01906	16.96471	70.31485	20.64456	0.1940626	0.24468483	2.5316171	20	7 13.1	21.6
232108 2001 XV_{236}	17.0	X	254.16196	122.54123	17.82091	1.39008	0.1321247	0.25840822	2.4411726	20	11 29.6	19.6
232109 2001 XS_{253}	16.9	X	310.56291	316.74795	82.66306	4.21326	0.1890597	0.25495549	2.4631629	20	10 11.3	18.9
232110 2001 XH_{258}	17.1	X	328.66180	260.02014	146.14173	3.98614	0.1999958	0.25973505	2.4328520	20	12 5.2	19.0
232111 2001 XD_{267}	16.3	X	144.46220	53.30249	45.00500	14.55213	0.1933461	0.23428052	2.6060251	20	6 2.5	20.6
232112 2001 YK_{7}	16.9	X	39.87067	53.32831	349.24437	6.27845	0.1434491	0.26893820	2.3770285	20	—	—
232113 2001 YN_{35}	16.3	X	247.20592	36.09066	328.41643	3.32740	0.1467353	0.24150278	2.5538063	20	5 13.5	20.0
232114 2001 YE_{50}	16.3	X	312.31812	27.28126	69.06898	3.54700	0.1381517	0.26130766	2.4230811	20	—	—
232115 2001 YU_{56}	17.1	X	277.10655	207.73245	268.80686	0.61781	0.1481830	0.25868821	2.4394109	20	12 2.1	19.5
232116 2001 YO_{67}	16.4	X	277.83608	21.15236	80.13473	5.04056	0.1544399	0.25578474	2.4578363	20	11 10.9	18.8
232117 2001 YN_{88}	16.2	X	191.75155	118.46170	296.52372	1.49835	0.1418924	0.23654650	2.5893556	20	5 23.2	20.2
232118 2001 YW_{122}	16.5	X	265.17568	57.40958	53.38838	9.34249	0.2011193	0.25638546	2.4539957	20	10 27.2	19.3
232119 2001 YW_{141}	17.1	X	328.56437	89.37333	326.17155	4.83682	0.1648311	0.26036387	2.4289332	20	12 15.6	19.3
232120 2001 YC_{146}	16.2	X	250.80347	196.03181	321.32679	3.51603	0.1284383	0.25857267	2.4401375	20	12 18.6	18.9
232121 2002 AP_{24}	16.1	X	187.80077	279.56483	140.00036	10.37472	0.2664876	0.23749586	2.5824506	20	5 26.8	20.9
232122 2002 AC_{43}	16.9	X	297.34570	250.50955	144.61711	4.99290	0.1921243	0.25062117	2.4914808	20	9 1.9	19.2
232123 2002 AR_{50}	16.9	X	267.65541	160.15221	286.06234	4.91969	0.1628857	0.25097658	2.4891281	20	9 26.4	20.0
232124 2002 AK_{85}	16.4	X	316.22881	29.36960	172.18396	6.67429	0.0584864	0.27367891	2.3494984	20	1 13.4	19.3
232125 2002 AG_{105}	17.1	X	314.71772	219.59888	302.70628	3.43851	0.1810964	0.26604477	2.3942320	20	—	—
232126 2002 AE_{114}	16.1	X	106.32322	288.56935	311.95085	5.67891	0.0468687	0.24764237	2.5114204	20	10 14.9	19.7
232127 2002 AU_{134}	16.7	X	277.22896	224.53080	269.12550	4.65762	0.1020172	0.25979890	2.4324533	20	—	—
232128 2002 AS_{137}	16.4	X	303.73839	19.46671	24.31902	3.01106	0.2091860	0.25096201	2.4892244	20	9 27.1	18.5
232129 2002 AN_{141}	16.0	X	237.58960	236.11146	116.69341	9.24218	0.2087041	0.23630529	2.5911174	20	4 19.0	20.3
232130 2002 AZ_{173}	16.5	X	355.17364	32.93947	105.38679	5.98006	0.0358183	0.26950047	2.3737211	20	—	—
232131 2002 AO_{184}	16.5	X	294.55347	34.29269	55.73194	5.78908	0.1756303	0.25570334	2.4583579	20	11 22.7	18.6
232132 2002 AQ_{187}	16.9	X	335.00179	16.26388	117.21855	23.90433	0.0699179	0.37151784	1.9163858	20	—	—
232133 2002 BE_{3}	15.5	X	151.39659	80.72348	7.92874	11.04937	0.2406441	0.23480404	2.6021501	20	5 29.3	20.2
232134 2002 BQ_{20}	17.7	X	337.86001	108.81950	328.61827	17.75032	0.1012183	0.36668673	1.9331813	20	—	—
232135 2002 BS_{27}	16.3	X	283.66236	31.88499	61.85388	7.13517	0.0998033	0.25372535	2.4711180	20	11 15.7	19.1
232136 2002 BP_{28}	16.6	X	157.34681	10.76867	84.12164	15.80208	0.2250329	0.23594000	2.5937911	20	6 13.1	20.9
232137 2002 CE_{1}	17.5	X	49.02193	91.20743	297.16738	17.29679	0.0957369	0.36961085	1.9229718	20	—	—
232138 2002 CF_{3}	16.3	X	313.54574	316.96606	115.03935	11.95419	0.0984854	0.25370441	2.4712539	20	12 7.8	19.0
232139 2002 CR_{4}	17.1	X	277.28480	26.69486	138.98921	23.80044	0.0527516	0.36865331	1.9263002	20	—	—
232140 2002 CF_{7}	16.0	X	143.47029	353.61569	84.59218	35.22468	0.2038729	0.23141047	2.6275282	20	5 21.6	20.7
232141 2002 CR_{13}	16.4	X	198.74520	249.05177	179.06988	0.93554	0.1610414	0.23716514	2.5848508	20	6 15.6	20.5
232142 2002 CQ_{16}	16.3	X	217.07969	232.14268	312.46701	11.72448	0.1294077	0.25585242	2.4574029	20	12 7.4	19.8
232143 2002 CW_{25}	16.9	X	62.42646	77.02792	348.94200	19.55485	0.1213080	0.37582389	1.9017195	20	—	—
232144 2002 CB_{29}	16.8	X	236.02598	108.17919	333.26002	13.46961	0.1525270	0.24482024	2.5306835	20	8 14.0	20.4
232145 2002 CX_{45}	15.6	X	161.11536	249.28264	243.45692	11.03558	0.2194421	0.23887693	2.5724873	20	7 29.6	20.3
232146 2002 CR_{70}	17.0	X	52.30827	138.47353	115.99601	3.45065	0.0179671	0.24038197	2.5617384	20	8 22.4	20.2
232147 2002 CC_{148}	16.3	X	230.53689	125.84684	128.70982	1.25410	0.0181256	0.21343585	2.7730507	20	—	—
232148 2002 CG_{148}	16.8	X	176.98189	283.95530	344.70240	5.83024	0.1104240	0.26056788	2.4276652	20	—	—
232149 2002 CL_{175}	16.8	X	279.04634	268.77733	317.40772	4.88611	0.1545062	0.26878143	2.3779527	20	—	—
232150 2002 CY_{177}	16.6	X	271.48398	302.71216	312.79684	7.88814	0.1113032	0.27283932	2.3543160	20	1 23.4	19.7
232151 2002 CB_{180}	15.9	X	266.01264	142.23900	127.45772	17.59399	0.2445693	0.21808433	2.7335042	20	1 29.3	20.4
232152 2002 CD_{188}	16.6	X	141.73712	120.06431	131.27099	6.64170	0.0871545	0.25167737	2.4845054	20	12 13.1	20.3
232153 2002 CB_{196}	16.7	X	88.29533	142.15261	131.37313	2.06529	0.0555621	0.24740398	2.5130334	20	11 9.7	20.0
232154 2002 CG_{203}	17.0	X	114.67403	99.75645	124.53859	0.80600	0.1225366	0.24210793	2.5495490	20	10 11.5	20.7
232155 2002 CF_{220}	15.9	X	339.60776	338.50159	354.74540	9.41189	0.0865798	0.23866280	2.5740258	20	8 29.3	18.7
232156 2002 CP_{232}	17.0	X	126.69050	118.95272	81.74325	3.08258	0.1916166	0.23994514	2.5648467	20	9 27.9	21.3
232157 2002 CY_{233}	16.2	X	80.29871	270.68225	264.93490	5.01768	0.1129576	0.22994001	2.6387183	20	6 26.2	19.7
232158 2002 CG_{245}	16.3	X	246.34187	164.65874	298.28487	7.80101	0.0984556	0.24612868	2.5217067	20	9 26.8	19.8
232159 2002 CB_{256}	16.3	X	173.45156	263.20750	163.65133	7.59099	0.1797153	0.23428916	2.6059610	20	5 23.3	20.7
232160 2002 CW_{258}	16.0	X	141.27946	316.18093	239.98580	10.79954	0.1996041	0.24258988	2.5461712	20	9 29.8	20.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
232161 2002 CN_{261}	16.1	X	170.99889	346.99978	93.06311	5.19953	0.1584801	0.23484138	2.6018742	20	6 5.0	20.2
232162 2002 CM_{289}	16.1	X	136.66456	195.63771	357.01653	12.67809	0.1396991	0.24323767	2.5416485	20	9 23.4	20.1
232163 2002 CH_{294}	16.1	X	215.89977	119.62742	351.22368	12.33920	0.0334824	0.24513067	2.5285465	20	9 11.7	19.3
232164 2002 CT_{299}	15.5	X	166.58487	199.28526	217.34043	13.41920	0.2365629	0.23115344	2.6294756	20	5 4.8	20.0
232165 2002 CC_{308}	15.3	X	146.74287	336.34851	105.42880	4.09524	0.2211639	0.12388865	3.9851840	20	5 20.4	21.8
232166 2002 DE_{4}	17.1	X	281.93575	48.00686	113.65974	24.37505	0.0587075	0.36762953	1.9298747	20	—	—
232167 2002 DC_{10}	16.5	X	281.58263	164.30005	355.18293	21.05428	0.0507912	0.36819285	1.9279058	20	—	—
232168 2002 EF_{3}	16.2	X	290.41205	81.31668	342.36176	14.58624	0.1113862	0.24560179	2.5253120	20	10 5.2	19.3
232169 2002 EE_{16}	16.3	X	119.86544	291.26099	314.09200	5.87453	0.1457899	0.24153213	2.5535995	20	11 10.2	20.4
232170 2002 EP_{22}	16.5	X	112.51240	201.32057	45.33204	6.37871	0.2325066	0.24121460	2.5558400	20	11 10.6	20.8
232171 2002 EV_{23}	16.6	X	303.74262	174.58055	172.57637	6.95664	0.0799221	0.23417923	2.6067765	20	7 16.2	19.9
232172 2002 EH_{28}	16.7	X	267.69485	49.30088	155.85197	12.62216	0.1470462	0.26176396	2.4202644	20	—	—
232173 2002 EQ_{38}	17.0	X	263.04343	75.53821	353.06497	2.75731	0.0854768	0.24424829	2.5346327	20	9 9.5	20.0
232174 2002 EV_{53}	15.4	X	24.11858	154.18270	181.60318	2.83034	0.2085019	0.24414179	2.5353697	20	12 1.2	18.4
232175 2002 EA_{55}	15.9	X	40.52758	277.73736	0.61770	8.45949	0.0844123	0.23562342	2.5961139	20	9 16.9	19.2
232176 2002 EK_{58}	16.8	X	212.25971	314.18885	169.39916	7.15200	0.1532471	0.24400684	2.5363044	20	9 9.9	20.4
232177 2002 ED_{62}	16.5	X	156.24881	174.83589	337.88014	6.67388	0.0637366	0.23761628	2.5815780	20	8 22.7	20.1
232178 2002 EV_{64}	17.1	X	192.76169	299.75497	191.81648	4.09283	0.1999474	0.24127453	2.5554167	20	8 27.3	21.4
232179 2002 EQ_{65}	16.3	X	72.40894	79.98392	184.48235	8.52257	0.1385892	0.23842608	2.5757293	20	10 19.1	19.9
232180 2002 ET_{65}	15.9	X	142.78585	228.34152	345.99092	14.81040	0.0584888	0.24316095	2.5421831	20	10 20.1	19.7
232181 2002 EP_{68}	16.3	X	119.43506	244.93703	355.63981	10.15622	0.0706151	0.24270540	2.5453632	20	10 30.3	20.1
232182 2002 ET_{73}	16.1	X	131.42464	238.07692	359.73660	7.85912	0.1115563	0.24258844	2.5461813	20	11 10.9	20.1
232183 2002 ET_{87}	16.1	X	69.78496	48.48727	165.50257	9.63209	0.0594090	0.23100258	2.6306202	20	7 24.9	19.7
232184 2002 EP_{102}	15.8	X	332.94057	349.77547	310.96019	10.57160	0.0831649	0.23103142	2.6304013	20	6 29.1	19.0
232185 2002 EW_{121}	16.4	X	125.93095	81.67171	152.20256	6.69030	0.1628963	0.24507930	2.5288998	20	11 7.1	20.5
232186 2002 EZ_{125}	17.1	X	139.38106	84.84389	139.72771	5.07761	0.1219275	0.24536415	2.5269422	20	11 7.3	21.0
232187 2002 EM_{138}	17.1	X	228.95906	293.36618	161.52125	5.41433	0.1610719	0.24148646	2.5539214	20	8 20.0	20.7
232188 2002 EG_{139}	16.7	X	233.07629	16.29631	33.66713	4.00750	0.0941499	0.23380673	2.6095445	20	7 4.3	20.4
232189 2002 FM_{4}	15.6	X	351.50495	18.94358	186.10859	11.61076	0.2085446	0.21606750	2.7504880	20	3 1.6	18.6
232190 2002 FZ_{22}	15.9	X	342.33057	110.76429	356.75511	5.99391	0.0384490	0.20312808	2.8660872	20	—	—
232191 2002 FK_{25}	15.8	X	0.25820	130.67364	103.72461	12.94971	0.1971129	0.22296893	2.6934349	20	5 12.7	18.5
232192 2002 FP_{37}	16.0	X	217.76182	19.03032	65.23345	10.25817	0.0961351	0.23752768	2.5822199	20	8 3.7	19.9
232193 2002 FY_{37}	16.4	X	114.45430	111.99220	98.65459	9.82746	0.1638824	0.23726565	2.5841208	20	9 30.9	20.6
232194 2002 GJ	16.1	X	104.26863	127.33002	152.50035	11.96443	0.2705564	0.24328103	2.5413465	20	12 16.1	20.8
232195 2002 GG_{2}	17.0	X	307.10699	35.14024	18.66829	15.72166	0.1232438	0.35147917	1.9885491	20	11 24.9	18.6
232196 2002 GR_{17}	15.5	X	118.56203	204.28573	33.90711	13.17919	0.1762830	0.23846096	2.5754781	20	11 2.3	19.7
232197 2002 GT_{54}	16.5	X	212.35053	273.67075	192.22989	9.06881	0.1667635	0.23825370	2.5769715	20	8 13.9	20.6
232198 2002 GX_{59}	15.7	X	210.53013	272.66452	206.44534	27.43967	0.2599803	0.24198505	2.5504121	20	8 17.8	20.6
232199 2002 GS_{60}	16.2	X	57.71212	272.70220	344.38687	11.81100	0.1313923	0.23306319	2.6150917	20	9 16.8	19.7
232200 2002 GX_{63}	17.2	X	112.56712	74.11142	179.11496	4.85514	0.1789533	0.23935439	2.5690651	20	11 17.3	21.3
232201 2002 GM_{90}	16.7	X	177.95814	325.56088	194.26384	3.52778	0.0561839	0.23866947	2.5739778	20	9 25.9	20.4
232202 2002 GP_{90}	16.9	X	168.28200	10.90245	162.87903	4.51613	0.1416523	0.24024527	2.5627102	20	10 1.1	20.8
232203 2002 GY_{100}	16.5	X	126.25780	240.79139	14.60157	14.37628	0.1553578	0.24332958	2.5410084	20	11 27.1	20.8
232204 2002 GX_{104}	16.3	X	202.31444	332.11922	170.57422	13.53238	0.1235079	0.23889049	2.5723900	20	9 27.5	20.2
232205 2002 GK_{106}	15.6	X	323.00250	159.20260	154.14821	12.89885	0.2027479	0.22530394	2.6747931	20	6 15.9	18.6
232206 2002 GN_{107}	16.5	X	124.72361	74.16436	160.72289	12.14089	0.2057122	0.24027904	2.5624700	20	11 8.8	21.0
232207 2002 GO_{111}	16.2	X	33.74973	91.80668	169.18058	10.00835	0.0581019	0.22980178	2.6397763	20	8 6.6	19.6
232208 2002 GM_{123}	15.4	X	92.45916	32.12782	130.52410	15.51116	0.0235991	0.22705924	2.6609901	20	6 13.4	19.2
232209 2002 GC_{142}	16.3	X	49.84564	116.06161	188.11220	3.75636	0.2731007	0.23422157	2.6064624	20	11 28.6	20.1
232210 2002 GP_{144}	16.0	X	146.94975	344.43801	154.08383	15.10156	0.2351023	0.23235491	2.6204033	20	7 27.9	20.7
232211 2002 GR_{147}	16.0	X	235.78762	341.27841	83.33589	5.26126	0.1231525	0.23483988	2.6018853	20	7 24.1	19.7
232212 2002 GD_{166}	16.1	X	97.77713	46.65490	148.63247	12.31594	0.1292214	0.23049445	2.6344850	20	8 15.5	19.9
232213 2002 GT_{168}	16.4	X	152.99502	254.60208	317.32144	3.39183	0.0829383	0.24137654	2.5546967	20	11 1.9	20.2
232214 2002 HK_{11}	16.5	X	106.39885	62.13477	150.06174	12.01311	0.1970982	0.23488574	2.6015467	20	9 24.7	20.7
232215 2002 HS_{11}	15.3	X	84.24935	94.27308	169.41675	27.29991	0.2403019	0.23314218	2.6145010	20	11 11.6	20.0
232216 2002 HV_{11}	15.6	X	55.22563	133.24265	131.68075	31.21835	0.3166178	0.23220560	2.6215265	20	11 1.7	20.3
232217 2002 HF_{13}	15.5	X	159.43780	79.85387	137.44817	24.60696	0.1034417	0.24290834	2.5439453	20	11 23.9	19.9
232218 2002 HZ_{14}	17.2	X	58.98991	92.71111	152.13609	2.67541	0.1792239	0.23102614	2.6304414	20	9 11.0	20.6
232219 2002 JN_{9}	17.0	X	42.16552	190.88872	100.20173	1.00880	0.0868060	0.23266872	2.6180466	20	10 6.4	20.4
232220 2002 JZ_{31}	17.2	X	37.63780	69.49522	122.36591	2.71528	0.1613097	0.27456132	2.3444617	20	5 20.5	19.3
232221 2002 JF_{99}	16.3	X	183.64237	59.91646	109.23108	13.91269	0.1771293	0.24168974	2.5524892	20	10 14.3	20.7
232222 2002 JG_{99}	16.1	X	117.51380	91.26378	117.35718	13.60575	0.1418911	0.23559308	2.5963368	20	9 30.6	20.4
232223 2002 JP_{120}	16.2	X	151.28886	31.68765	148.80248	13.59628	0.1246356	0.23657997	2.5891114	20	9 24.8	20.3
232224 2002 JX_{120}	16.4	X	39.64508	50.40774	120.30652	11.38134	0.2433048	0.21943869	2.7222453	20	5 10.5	19.3
232225 2002 JZ_{121}	15.6	X	160.38024	27.02081	126.10092	14.02395	0.1149188	0.23318429	2.6141862	20	8 29.4	19.7
232226 2002 JS_{134}	16.1	X	166.12654	21.41158	33.62287	6.18735	0.0387114	0.21846943	2.7302910	20	4 24.8	19.9
232227 2002 JX_{135}	16.8	X	57.57658	307.37904	298.35593	2.39775	0.0933798	0.22962707	2.6411151	20	8 26.6	20.3
232228 2002 KG_{14}	16.6	X	159.57274	25.37751	173.03900	12.69749	0.2348664	0.23894305	2.5720127	20	10 22.8	21.1
232229 2002 KL_{15}	16.5	X	48.39638	130.47352	101.73881	2.64177	0.1510138	0.22516561	2.6758884	20	8 4.6	19.7
232230 2002 LP_{2}	15.8	X	180.29159	11.01068	218.48012	8.74238	0.1739725	0.24394589	2.5367269	20	12 17.2	19.8
232231 2002 LD_{21}	15.8	X	148.21963	12.09659	267.78090	12.30061	0.2547599	0.24220402	2.5488747	20	—	—
232232 2002 LM_{53}	15.9	X	303.32190	127.34115	148.60351	8.60435	0.2974104	0.21255281	2.7807256	20	3 8.6	19.8
232233 2002 LE_{61}	16.1	X	211.42627	204.19480	147.27177	6.63304	0.0872793	0.21154172	2.7895792	20	3 28.9	20.3
232234 2002 NL_{5}	15.5	X	17.69699	282.15029	122.61484	15.47570	0.2897328	0.18018251	3.1045188	20	—	—
232235 2002 NT_{14}	15.6	X	78.25629	30.65931	326.87887	8.41240	0.2760876	0.18311659	3.0712671	20	—	—
232236 2002 NO_{19}	15.6	X	324.79430	129.01795	131.70544	16.22657	0.2455304	0.21084464	2.7957243	20	4 2.1	19.1
232237 2002 NK_{37}	16.1	X	76.49916	88.98415	169.46852	9.59443	0.1629092	0.22677866	2.6631845	20	10 18.1	20.0
232238 2002 NA_{45}	16.2	X	59.96735	92.61511	150.06949	12.76205	0.2330546	0.22266921	2.6958513	20	9 17.9	20.0
232239 2002 ND_{60}	16.3	X	103.94338	52.11909	296.92245	3.13473	0.1688628	0.18609264	3.0384347	20	—	—
232240 2002 NG_{66}	16.2	X	105.68804	58.75522	304.96558	7.91650	0.1157951	0.18989460	2.9977423	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
232241 2002 OA_{7}	15.3	X	108.78313	68.03423	291.68309	15.95274	0.1487661	0.18656416	3.0333131	20	—	—
232242 2002 OH_{8}	15.1	X	9.88644	98.47007	306.19835	24.60824	0.2360970	0.17781515	3.1320129	20	—	—
232243 2002 OG_{27}	16.3	X	97.92481	239.53538	143.36912	3.36708	0.1022977	0.19126399	2.9834166	20	1 5.2	20.3
232244 2002 PU_{2}	15.2	X	352.71473	157.94768	250.47167	12.62804	0.2780824	0.17487315	3.1670430	20	12 31.2	18.5
232245 2002 PZ_{4}	15.3	X	6.56634	173.38739	172.31069	20.20994	0.0737868	0.17043887	3.2217384	20	10 15.8	19.6
232246 2002 PT_{14}	15.8	X	230.98668	330.62150	300.36774	4.99046	0.0483920	0.19666382	2.9285528	20	1 13.8	19.9
232247 2002 PJ_{19}	15.7	X	143.20014	51.35894	298.05442	8.52187	0.0640297	0.19314408	2.9640244	20	1 13.4	19.8
232248 2002 PB_{20}	15.9	X	347.03083	306.96116	304.54639	13.44073	0.1815212	0.21239912	2.7820669	20	4 28.4	19.2
232249 2002 PT_{24}	15.5	X	68.97425	276.78819	138.00458	17.21592	0.0676573	0.19069847	2.9893120	20	1 2.2	19.6
232250 2002 PG_{31}	15.3	X	75.80825	205.96010	158.40075	10.02590	0.3104438	0.18181586	3.0858978	20	—	—
232251 2002 PO_{62}	16.1	X	58.58755	197.38227	158.76578	0.75973	0.1985009	0.17898675	3.1183304	20	—	—
232252 2002 PZ_{65}	15.2	X	9.37964	101.99789	313.86752	24.64366	0.2693983	0.17756886	3.1349084	20	—	—
232253 2002 PC_{70}	15.4	X	32.27413	96.92978	219.06486	11.08328	0.0858269	0.22519386	2.6756647	20	10 22.9	18.8
232254 2002 PP_{107}	15.7	X	112.89381	23.03880	257.23988	8.23115	0.0560758	0.17801577	3.1296593	20	12 1.4	20.3
232255 2002 PY_{121}	16.1	X	99.65421	268.07809	318.36566	22.97173	0.2604979	0.28083357	2.3094224	20	9 29.6	20.4
232256 2002 PA_{131}	16.2	X	8.36686	187.51193	95.75767	4.56020	0.2278528	0.22038598	2.7144389	20	8 17.9	18.7
232257 2002 PT_{135}	15.7	X	94.79397	14.93860	329.52974	8.74330	0.1460284	0.18273088	3.0755875	20	—	—
232258 2002 PU_{136}	16.3	X	315.15880	355.36086	322.77273	4.83479	0.1503038	0.21499178	2.7596552	20	6 13.7	19.5
232259 2002 PK_{152}	15.7	X	81.12687	79.54538	258.07085	1.57065	0.2159565	0.17862186	3.1225757	20	—	—
232260 2002 PA_{161}	16.0	X	272.41647	115.79557	136.45208	10.75317	0.0659663	0.19855470	2.9099304	20	2 4.2	20.1
232261 2002 PZ_{162}	16.3	X	322.01979	282.45554	3.40541	4.22081	0.0378980	0.21068344	2.7971501	20	5 23.6	19.9
232262 2002 PD_{163}	16.2	X	16.75699	71.44386	147.48334	5.10863	0.0482464	0.20901762	2.8119923	20	5 15.8	19.8
232263 2002 QV_{11}	15.1	X	23.19202	78.21595	318.74667	25.05287	0.2331881	0.17755413	3.1350817	20	—	—
232264 2002 QZ_{19}	15.1	X	127.86101	300.33145	296.31333	8.41751	0.0893903	0.17122116	3.2119179	20	10 23.9	20.2
232265 2002 QY_{26}	16.1	X	180.12847	211.65879	135.66435	9.63417	0.0656946	0.19682064	2.9269971	20	2 20.1	20.5
232266 2002 QM_{38}	16.1	X	327.42985	289.71355	358.13862	4.38036	0.2177299	0.21064945	2.7974511	20	5 12.2	19.0
232267 2002 QS_{49}	15.8	X	84.50232	294.84267	110.20269	3.78404	0.0776946	0.18825557	3.0151169	20	1 12.2	19.6
232268 2002 QH_{51}	15.4	X	319.59052	296.63009	319.05430	14.08298	0.1133245	0.20513681	2.8473465	20	3 24.9	19.3
232269 2002 QG_{77}	16.2	X	112.58624	206.00582	146.70477	4.46667	0.1905070	0.18830784	3.0145590	20	—	—
232270 2002 QD_{79}	16.5	X	211.46418	298.62774	28.49754	2.67526	0.0980507	0.19955398	2.9002079	20	2 28.1	21.0
232271 2002 QE_{93}	15.6	X	75.73958	288.68698	134.19867	11.62715	0.0856445	0.19005104	2.9960971	20	1 22.8	19.4
232272 2002 QS_{99}	15.7	X	218.23150	153.10378	126.66934	9.76277	0.0566637	0.19225006	2.9732064	20	1 10.5	20.2
232273 2002 QR_{103}	15.7	X	202.44459	258.83394	320.82837	5.45771	0.0976865	0.18360815	3.0657830	20	12 22.6	20.3
232274 2002 QU_{103}	15.6	X	158.35534	274.49612	103.75613	6.67071	0.1244839	0.19609580	2.9342054	20	3 11.3	20.2
232275 2002 QN_{136}	16.2	X	34.84740	118.69178	14.76765	1.97943	0.0627955	0.19778275	2.9174972	20	2 20.4	20.0
232276 2002 QC_{138}	16.6	X	44.84335	234.78714	138.83463	1.72619	0.1852425	0.17924824	3.1152969	20	—	—
232277 2002 RW	14.8	X	18.20467	248.72062	159.52220	24.17706	0.2229171	0.17752114	3.1354701	20	—	—
232278 2002 RQ_{20}	17.5	X	162.95684	263.18209	128.38674	4.61559	0.1572146	0.30783938	2.1723006	20	3 25.5	20.6
232279 2002 RV_{41}	15.9	X	11.45933	264.55603	349.79649	15.72656	0.3384996	0.21605018	2.7506349	20	7 31.3	18.1
232280 2002 RB_{59}	15.2	X	341.22449	92.59954	335.37657	14.50706	0.2038668	0.17291241	3.1909398	20	12 27.9	18.9
232281 2002 RK_{73}	15.3	X	323.73938	92.68559	334.97138	13.54347	0.2327554	0.17128546	3.2111140	20	11 12.9	18.9
232282 2002 RS_{73}	16.6	X	71.78637	119.23022	174.02706	6.60810	0.1465027	0.22761464	2.6566597	20	11 22.8	20.6
232283 2002 RD_{74}	15.9	X	355.21529	110.58826	153.45974	5.51631	0.1239098	0.21145212	2.7903672	20	6 12.5	19.0
232284 2002 RE_{128}	14.7	X	50.14937	248.98084	308.43745	27.41382	0.2173167	0.20972703	2.8056476	20	7 4.6	18.4
232285 2002 RK_{129}	15.5	X	73.75901	110.27563	218.03599	11.56750	0.2696063	0.23147649	2.6270285	20	—	—
232286 2002 RU_{129}	14.7	X	37.45604	253.22484	161.14653	26.44800	0.2154769	0.17897923	3.1184178	20	—	—
232287 2002 RV_{138}	15.4	X	307.04320	57.42599	116.26692	11.88008	0.0528801	0.18619225	3.0373510	20	—	—
232288 2002 RO_{165}	15.4	X	347.34393	300.02986	166.19044	5.46499	0.1910866	0.17963914	3.1107760	20	—	—
232289 2002 RT_{178}	16.0	X	325.53780	314.35936	185.08066	5.40657	0.0942449	0.18096611	3.0955504	20	—	—
232290 2002 RE_{180}	15.9	X	61.37041	64.46079	180.12065	8.07226	0.1201712	0.21522113	2.7576942	20	9 1.1	19.6
232291 2002 RR_{181}	18.0	X	252.58453	77.42737	276.68576	2.94623	0.1942654	0.31763532	2.1274051	20	4 28.1	21.0
232292 2002 RD_{192}	14.9	X	126.31511	85.03678	150.56817	9.29371	0.0823954	0.17069780	3.2184797	20	10 27.4	19.9
232293 2002 RJ_{193}	15.3	X	47.92459	253.18596	162.79966	11.39618	0.1170073	0.18318140	3.0705427	20	—	—
232294 2002 RK_{198}	16.0	X	350.20370	23.04333	52.45028	1.98323	0.1735606	0.17596294	3.1539531	20	—	—
232295 2002 RC_{202}	15.9	X	215.21290	271.69027	63.08254	2.86920	0.0903582	0.19927590	2.9029053	20	3 12.7	20.2
232296 2002 RU_{232}	15.6	X	287.08394	215.60439	329.89639	8.49761	0.0490198	0.18591540	3.0403656	20	—	—
232297 2002 RL_{233}	16.3	X	223.35969	150.44993	194.88718	1.49420	0.0839102	0.20198181	2.8769206	20	4 1.6	20.4
232298 2002 RN_{236}	16.1	X	348.67210	301.90619	113.90839	2.03890	0.2064176	0.17357943	3.1827598	20	12 25.0	19.6
232299 2002 RC_{245}	17.9	X	220.45929	216.76640	147.82725	1.68368	0.1089794	0.31421477	2.1428165	20	4 16.5	20.7
232300 2002 RC_{246}	16.3	X	200.72405	199.92989	124.71620	3.16229	0.0872975	0.19638489	2.9313252	20	2 14.3	20.7
232301 2002 RT_{249}	16.4	X	25.37393	9.02855	158.60040	2.43253	0.0091474	0.19940683	2.9016344	20	3 19.5	20.4
232302 2002 RY_{249}	15.5	X	54.90451	257.12511	137.06474	13.39767	0.1075964	0.18118101	3.0931021	20	—	—
232303 2002 RN_{250}	15.9	X	32.48675	95.79563	298.35539	8.15378	0.0907779	0.17981881	3.1087035	20	—	—
232304 2002 RW_{263}	15.6	X	120.91921	265.89949	49.93350	6.12943	0.1183012	0.17927455	3.1149922	20	—	—
232305 2002 RA_{272}	16.5	X	53.45178	251.18579	177.36008	2.15869	0.1101006	0.18739483	3.0243426	20	—	—
232306 2002 RP_{280}	17.6	X	74.17030	108.81463	288.68833	3.42250	0.1058305	0.29724907	2.2235951	20	—	—
232307 2002 SN_{14}	15.7	X	245.05636	265.74067	54.48912	2.74272	0.0835774	0.19967203	2.8990646	20	3 26.6	19.9
232308 2002 TH_{24}	15.4	X	48.07600	38.44903	16.76306	10.41782	0.1245159	0.17977755	3.1091792	20	—	—
232309 2002 TO_{31}	17.9	X	176.36795	214.50454	161.82850	2.74504	0.1806572	0.30599564	2.1810179	20	3 18.5	21.2
232310 2002 TH_{34}	15.4	X	27.31699	273.74402	126.68907	4.39408	0.1648564	0.17483675	3.1674826	20	—	—
232311 2002 TD_{37}	17.2	X	137.68162	185.25043	219.15689	5.47806	0.0560706	0.30321703	2.1943218	20	2 27.2	19.9
232312 2002 TS_{73}	17.3	X	132.89208	63.05918	338.89042	6.47451	0.1995133	0.30202164	2.2001080	20	3 9.5	20.3
232313 2002 TN_{74}	14.9	X	50.22373	266.93642	159.31756	10.09501	0.1337928	0.18259788	3.0770808	20	—	—
232314 2002 TL_{93}	15.2	X	164.07635	18.29517	274.86248	10.22112	0.0927669	0.18294264	3.0732137	20	—	—
232315 2002 TM_{94}	16.0	X	13.08212	221.56001	173.11279	5.70369	0.1640633	0.17354830	3.1831405	20	—	—
232316 2002 TY_{98}	16.3	X	31.62176	140.17950	248.14945	0.10501	0.1765110	0.17526830	3.1622811	20	—	—
232317 2002 TV_{101}	15.6	X	41.59066	151.43833	223.54097	4.56422	0.1694611	0.17481422	3.1677547	20	—	—
232318 2002 TL_{103}	14.7	X	338.21815	108.64650	10.40544	26.14172	0.2240771	0.17616819	3.1515030	20	—	—
232319 2002 TL_{105}	15.2	X	125.75476	73.72168	256.14196	9.12561	0.1014505	0.18368678	3.0649081	20	—	—
232320 2002 TZ_{112}	15.5	X	116.63648	67.81070	276.92735	8.53614	0.0814816	0.18229020	3.0805423	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
232321 2002 TM_{113}	15.7	X	64.79815	87.45298	294.66551	9.31060	0.1319267	0.17921111	3.1157273	20	—	—
232322 2002 TR_{128}	15.5	X	70.18016	72.46214	315.24714	8.96453	0.1121924	0.18084303	3.0969548	20	—	—
232323 2002 TA_{138}	16.6	X	192.15277	99.36109	265.65780	6.41979	0.1778802	0.30632440	2.1794571	20	3 14.4	20.1
232324 2002 TN_{142}	15.4	X	76.03854	50.75127	354.43222	6.94771	0.0494703	0.18518217	3.0483858	20	—	—
232325 2002 TH_{149}	16.1	X	121.83485	231.21563	165.28531	0.59709	0.0671696	0.19050014	2.9913864	20	2 14.9	20.3
232326 2002 TV_{150}	15.4	X	291.94729	260.83081	212.55516	4.24339	0.1310676	0.17085095	3.2165560	20	11 28.4	19.3
232327 2002 TU_{163}	15.3	X	74.59433	212.79154	146.29227	18.42872	0.2087948	0.17591829	3.1544868	20	—	—
232328 2002 TK_{169}	14.7	X	68.43511	94.22041	268.37620	10.35311	0.0795839	0.17738224	3.1371067	20	—	—
232329 2002 TV_{169}	15.3	X	324.64444	201.01237	286.88283	13.03862	0.1243318	0.17803754	3.1294042	20	—	—
232330 2002 TY_{182}	16.2	X	348.83686	322.18144	336.40544	7.95887	0.2943192	0.21606204	2.7505343	20	7 23.2	17.9
232331 2002 TT_{186}	17.1	X	232.44584	6.70830	284.80947	4.44449	0.1618731	0.30564984	2.1826626	20	1 21.2	20.5
232332 2002 TZ_{187}	15.5	X	92.71679	24.33204	347.89002	10.19305	0.0874937	0.18318374	3.0705165	20	—	—
232333 2002 TJ_{189}	15.2	X	93.03183	72.16273	319.03342	9.20114	0.0867781	0.18583710	3.0412195	20	1 9.3	19.4
232334 2002 TL_{202}	15.4	X	212.92294	181.04037	142.97123	9.90213	0.0861176	0.19511981	2.9439819	20	2 26.4	19.9
232335 2002 TN_{202}	15.2	X	148.73650	183.21949	141.34497	10.68858	0.0566289	0.18459080	3.0548931	20	—	—
232336 2002 TV_{289}	15.3	X	334.86815	295.73525	42.04150	20.98132	0.1729321	0.21095487	2.7947503	20	9 2.2	18.7
232337 2002 TL_{296}	15.4	X	178.72869	178.72710	150.02668	4.98778	0.0626141	0.18885257	3.0087593	20	1 27.1	19.9
232338 2002 TH_{298}	16.9	X	73.57096	358.08845	4.72009	6.73080	0.1387375	0.28753146	2.2734172	20	—	—
232339 2002 TM_{312}	15.3	X	121.15832	227.88721	139.51451	9.99247	0.1189333	0.18450936	3.0557920	20	1 17.5	19.8
232340 2002 TP_{338}	15.7	X	320.90064	44.40269	63.66923	6.39366	0.1567074	0.17344010	3.1844642	20	—	—
232341 2002 TE_{348}	15.1	X	57.99564	271.39216	131.41172	9.76703	0.1167281	0.17879909	3.1205119	20	—	—
232342 2002 TE_{379}	16.0	X	28.55721	177.10706	256.01666	0.94003	0.0946711	0.17973429	3.1096780	20	—	—
232343 2002 UR_{39}	15.8	X	13.88858	9.01860	38.75365	1.53829	0.1530129	0.17116764	3.2125873	20	—	—
232344 2002 UD_{53}	15.2	X	119.31813	241.51948	59.20877	10.37702	0.0633804	0.17467500	3.1694377	20	12 31.8	20.0
232345 2002 UX_{72}	15.4	X	93.91403	18.70687	346.92198	14.59131	0.2642845	0.18002952	3.1062774	20	1 7.5	19.8
232346 2002 VR_{22}	15.2	X	21.38451	48.09463	45.17961	10.02631	0.0794390	0.17759267	3.1346281	20	—	—
232347 2002 VQ_{40}	17.1	X	193.18834	243.92218	145.22188	7.02771	0.1777402	0.30781161	2.1724313	20	4 22.1	20.5
232348 2002 VA_{60}	15.2	X	24.69676	55.35586	250.52701	6.82091	0.2143222	0.21631759	2.7483676	20	10 14.4	18.5
232349 2002 VS_{67}	16.9	X	196.04143	347.56359	348.90980	4.25492	0.2147218	0.30317184	2.1945399	20	2 16.2	20.4
232350 2002 VR_{79}	16.6	X	97.34135	351.47897	69.83290	9.18019	0.1504530	0.29661025	2.2267867	20	2 17.3	19.1
232351 2002 VM_{120}	15.2	X	308.76527	170.86914	344.37305	8.34867	0.0440434	0.17496156	3.1659760	20	—	—
232352 2002 VB_{143}	17.3	X	35.38052	71.95285	60.00077	3.30231	0.0993921	0.29784678	2.2206193	20	2 2.7	19.2
232353 2002 WR_{2}	15.5	X	207.15695	295.95501	92.68228	13.11074	0.0678451	0.19702286	2.9249940	20	5 13.1	20.0
232354 2002 WO_{15}	17.4	X	66.15175	300.83633	153.05950	4.18226	0.2345462	0.29489888	2.2353934	20	2 20.0	18.9
232355 2002 WC_{20}	15.9	X	63.73386	337.44801	43.81255	2.34263	0.0825091	0.17352704	3.1834005	20	—	—
232356 2002 WB_{23}	15.9	X	232.94498	136.40407	110.13699	3.23683	0.0265560	0.17796809	3.1302183	20	—	—
232357 2002 XT_{16}	15.1	X	63.89711	17.53885	323.42367	10.65604	0.1991585	0.16956761	3.2327648	20	—	—
232358 2002 XW_{49}	15.4	X	245.95976	279.09847	76.28999	12.96558	0.0769381	0.19635547	2.9316180	20	5 12.9	19.7
232359 2002 XS_{52}	16.7	X	331.33575	146.17465	273.85066	8.80633	0.1750324	0.27472982	2.3435030	20	—	—
232360 2002 XB_{67}	15.0	X	87.59038	322.74321	111.60355	19.32463	0.2338180	0.17945118	3.1129477	20	3 23.6	19.7
232361 2002 XC_{70}	15.4	X	33.86839	352.41680	111.71928	11.95208	0.1948194	0.17793758	3.1305761	20	1 21.2	18.8
232362 2002 XG_{87}	17.1	X	115.60710	39.87941	358.47520	4.28928	0.1601235	0.29434589	2.2381923	20	2 10.3	19.8
232363 2002 XT_{91}	17.3	X	97.81304	134.55888	265.57856	2.34874	0.1446012	0.29196707	2.2503330	20	1 13.7	19.4
232364 2002 XW_{103}	16.9	X	25.37689	216.50166	258.34317	6.13186	0.1624623	0.28937108	2.2637717	20	—	—
232365 2002 XN_{109}	17.6	X	117.17728	94.52898	295.06724	3.62487	0.1597809	0.29571906	2.2312583	20	1 29.3	20.2
232366 2002 YX_{26}	17.6	X	60.06868	153.45114	280.66073	5.86111	0.1352819	0.28889687	2.2662483	20	—	—
232367 2003 AZ_{1}	17.1	X	109.17923	228.50062	179.13849	4.96709	0.1580708	0.29347874	2.2425989	20	2 11.5	19.6
232368 2003 AZ_{2}	18.3	X	240.88621	186.91549	131.61360	22.86804	0.2235947	0.58279961	1.4194602	20	2 3.2	19.1
232369 2003 AV_{20}	16.7	X	67.30340	333.85879	70.51118	4.12687	0.2360222	0.28767303	2.2726713	20	—	—
232370 2003 AS_{22}	15.9	X	256.70012	270.12942	312.74690	21.87942	0.2812765	0.27715945	2.3297872	20	—	—
232371 2003 AO_{25}	16.7	X	17.37306	202.62324	276.14285	6.84843	0.0833617	0.28842056	2.2687427	20	—	—
232372 2003 AQ_{34}	16.9	X	72.39031	195.57507	224.25532	5.54546	0.1658263	0.29076037	2.2565549	20	—	—
232373 2003 AF_{62}	17.0	X	68.27451	221.30863	241.86969	4.87146	0.1127451	0.29402816	2.2398044	20	2 17.6	19.2
232374 2003 AA_{87}	16.9	X	88.73453	214.46007	236.17694	6.10966	0.1106821	0.29572711	2.2312178	20	3 3.1	19.3
232375 2003 AA_{90}	15.2	X	39.91495	172.75087	289.48604	15.35945	0.0852583	0.17434533	3.1734318	20	1 22.4	19.2
232376 2003 BU	16.1	X	204.01898	63.83300	94.33629	15.17634	0.0917821	0.26282394	2.4137527	20	11 1.4	19.7
232377 2003 BN_{13}	16.7	X	79.43991	160.11499	255.52032	6.86430	0.1039930	0.28693838	2.2765487	20	—	—
232378 2003 BJ_{15}	17.0	X	331.67942	214.95880	333.75601	4.77971	0.1134637	0.28615095	2.2807232	20	1 8.2	19.6
232379 2003 BT_{17}	17.1	X	57.00680	102.37753	303.37157	3.58075	0.0861143	0.28082167	2.3094876	20	—	—
232380 2003 BD_{33}	16.6	X	12.42325	101.17120	9.19815	8.58910	0.1868710	0.28251765	2.3002357	20	—	—
232381 2003 BP_{43}	17.0	X	22.40975	356.09092	109.90109	2.60806	0.1828849	0.28430085	2.2906072	20	—	—
232382 2003 BT_{47}	17.1	X	283.66016	235.66348	352.50009	7.45614	0.4909223	0.27557835	2.3386900	20	—	—
232383 2003 BV_{49}	17.0	X	359.88863	149.83215	319.33054	10.21102	0.1219249	0.28169536	2.3047098	20	—	—
232384 2003 BW_{49}	16.7	X	43.61085	81.20565	318.93180	6.86792	0.1863235	0.28050375	2.3112323	20	—	—
232385 2003 BS_{51}	17.4	X	339.76457	172.76165	4.55081	1.10781	0.1570912	0.28569419	2.2831535	20	—	—
232386 2003 BA_{54}	17.0	X	248.22521	195.23864	300.68073	4.57990	0.1418221	0.26706400	2.3881365	20	11 14.0	19.9
232387 2003 BM_{58}	17.1	X	289.13023	62.68873	119.86328	4.03543	0.1543881	0.27861985	2.3216390	20	—	—
232388 2003 BN_{61}	16.6	X	43.78503	135.31543	309.45546	4.89921	0.1973783	0.28412177	2.2915696	20	—	—
232389 2003 BP_{62}	16.9	X	50.06607	49.64449	48.85664	5.76675	0.1098567	0.28787044	2.2716321	20	1 12.7	18.9
232390 2003 BU_{67}	16.9	X	348.10430	6.54746	107.35654	3.67887	0.1068471	0.27996416	2.3142011	20	—	—
232391 2003 BC_{84}	16.7	X	315.05617	189.47527	335.08199	4.15035	0.1426553	0.27896731	2.3197108	20	—	—
232392 2003 BF_{85}	17.8	X	42.66767	63.63451	6.45873	1.42959	0.1881362	0.28373945	2.2936276	20	—	—
232393 2003 BB_{88}	14.7	X	77.27445	341.71494	137.09689	9.68116	0.2288689	0.12458000	3.9704266	20	5 2.1	20.3
232394 2003 BK_{88}	14.9	X	24.23665	349.65356	119.59749	12.01201	0.0383600	0.17040165	3.2222076	20	1 10.4	19.3
232395 2003 BU_{89}	16.9	X	290.54308	33.10037	164.43446	10.36132	0.1729472	0.27963815	2.3159994	20	—	—
232396 2003 CD	17.0	X	327.06972	357.46878	128.55256	10.09052	0.1513066	0.27790686	2.3256081	20	—	—
232397 2003 CX_{3}	15.4	X	62.35914	241.43464	139.70689	23.25652	0.2867473	0.27845316	2.3225654	20	—	—
232398 2003 CB_{6}	17.1	X	321.94232	91.64451	83.75074	4.11641	0.1126010	0.28343000	2.2952967	20	—	—
232399 2003 CA_{9}	17.1	X	307.02658	308.77240	265.23442	5.58027	0.2093446	0.28404803	2.2919661	20	—	—
232400 2003 CE_{9}	16.6	X	304.00322	301.30804	291.25655	8.87195	0.1541353	0.28846058	2.2685328	20	1 22.4	19.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
232401 2003 CR_{12}	16.9	X	53.17452	327.22093	89.18956	6.25557	0.1411476	0.28277168	2.2988578	20	—	—
232402 2003 CG_{16}	14.9	X	90.47340	312.05751	153.82063	9.82248	0.2312356	0.12470876	3.9676931	20	5 1.4	20.8
232403 2003 CB_{25}	16.9	X	275.24858	96.32410	109.27349	5.60292	0.1888914	0.27695803	2.3309167	20	—	—
232404 2003 DZ_{1}	17.5	X	7.56187	28.14976	59.87866	9.13697	0.2021938	0.27980036	2.3151042	20	—	—
232405 2003 DH_{11}	17.4	X	282.27283	79.00345	140.74622	2.93851	0.1725175	0.28066479	2.3103481	20	—	—
232406 2003 DA_{19}	17.2	X	300.66088	144.29504	8.12703	3.61335	0.0998780	0.27631962	2.3345055	20	—	—
232407 2003 DD_{22}	16.4	X	270.82097	117.01490	82.27720	7.01558	0.1766883	0.27464788	2.3439691	20	—	—
232408 2003 EY	16.4	X	271.42916	160.83650	25.59893	7.35263	0.2146638	0.27322076	2.3521242	20	—	—
232409 Dubes	16.8	X	174.82383	133.49253	143.87339	7.02665	0.2065987	0.27019021	2.3696797	20	—	—
232410 2003 EQ_{2}	17.4	X	345.49427	325.52395	149.84818	4.15162	0.1830991	0.27869471	2.3212232	20	—	—
232411 2003 EB_{3}	17.2	X	0.14291	22.79874	115.06705	4.84986	0.0844109	0.28401702	2.2921330	20	—	—
232412 2003 EL_{3}	16.8	X	61.53617	294.94392	130.33538	7.14976	0.0775965	0.28269668	2.2992644	20	—	—
232413 2003 EO_{3}	16.8	X	326.71539	109.65022	17.70376	4.85337	0.1249958	0.27680416	2.3317804	20	—	—
232414 2003 EH_{9}	16.9	X	13.43459	306.46701	283.55204	3.46290	0.1407413	0.29650670	2.2273051	20	5 27.3	18.5
232415 2003 EM_{9}	16.7	X	228.38577	319.72984	266.09078	1.11122	0.1732105	0.27106272	2.3645919	20	—	—
232416 2003 EH_{12}	17.0	X	261.48234	9.56656	189.76537	5.38811	0.1962253	0.27263169	2.3555111	20	—	—
232417 2003 EU_{17}	16.5	X	352.46595	15.44449	126.59253	4.25546	0.1708057	0.28040903	2.3117528	20	—	—
232418 2003 EQ_{26}	16.9	X	255.37000	208.48690	1.15107	4.89861	0.1579065	0.27405316	2.3473590	20	—	—
232419 2003 EP_{28}	16.4	X	220.76749	64.71917	154.53708	4.84203	0.1780033	0.26805650	2.3822380	20	—	—
232420 2003 EF_{40}	16.7	X	236.28144	99.33439	159.93387	6.42893	0.2236274	0.27666295	2.3325737	20	—	—
232421 2003 EZ_{42}	16.8	X	286.87690	139.10266	9.13983	5.46277	0.1902470	0.27100583	2.3649228	20	—	—
232422 2003 EQ_{47}	17.0	X	351.18990	196.72890	274.16690	5.91459	0.2081428	0.27783801	2.3259923	20	—	—
232423 2003 EP_{48}	17.1	X	167.16944	139.63044	106.77476	3.21395	0.1562711	0.26408930	2.4060363	20	12 30.8	20.7
232424 2003 EQ_{55}	17.0	X	230.36858	119.66962	118.40713	3.12797	0.1917660	0.27362411	2.3498121	20	—	—
232425 2003 ES_{63}	17.1	X	144.65317	204.07147	59.54495	2.13397	0.1375200	0.26388136	2.4073001	20	12 31.6	20.7
232426 2003 FR_{1}	15.5	X	35.96052	108.52852	123.62435	29.04090	0.2141899	0.24150526	2.5537888	20	7 26.6	18.1
232427 2003 FD_{15}	17.1	X	309.29135	170.54176	354.94236	5.06812	0.1256378	0.27633967	2.3343926	20	—	—
232428 2003 FC_{19}	16.4	X	267.21746	76.89358	109.74548	4.71359	0.1469904	0.27048843	2.3679376	20	—	—
232429 2003 FM_{21}	16.3	X	242.53330	183.25610	47.91117	5.16923	0.1961433	0.27178203	2.3604179	20	—	—
232430 2003 FJ_{26}	16.4	X	242.50865	110.02011	178.48706	7.10229	0.1326292	0.28345547	2.2951592	20	1 29.7	19.9
232431 2003 FH_{36}	17.8	X	297.85678	140.70806	359.84459	1.22948	0.1278384	0.27113909	2.3641478	20	—	—
232432 2003 FW_{40}	16.8	X	249.99928	113.92330	122.84396	6.62425	0.0715896	0.27846129	2.3225202	20	—	—
232433 2003 FL_{50}	17.2	X	284.96917	335.87376	227.88061	1.37495	0.1486070	0.27787217	2.3258017	20	—	—
232434 2003 FJ_{56}	17.3	X	289.59293	183.46254	25.44667	3.12112	0.1073214	0.27987709	2.3146810	20	—	—
232435 2003 FP_{62}	17.2	X	221.26986	67.01610	86.82997	2.03263	0.1413556	0.26091630	2.4255035	20	11 3.2	20.4
232436 2003 FB_{65}	16.9	X	242.30171	132.21142	61.07197	5.46482	0.1227236	0.26876344	2.3780588	20	—	—
232437 2003 FH_{65}	16.9	X	354.50343	68.58927	53.76240	3.95993	0.1715756	0.27815431	2.3242287	20	—	—
232438 2003 FH_{71}	16.9	X	206.12117	115.73594	152.76787	4.15161	0.1304145	0.27292190	2.3538410	20	—	—
232439 2003 FE_{72}	16.9	X	235.04803	105.96650	113.00585	6.18653	0.1156900	0.27030711	2.3689964	20	—	—
232440 2003 FB_{78}	17.3	X	226.22636	89.23543	135.31752	2.60287	0.1869002	0.26965602	2.3728082	20	—	—
232441 2003 FX_{81}	17.6	X	256.90922	90.18424	113.76616	3.25484	0.1473998	0.27198293	2.3592553	20	—	—
232442 2003 FU_{89}	16.5	X	259.33126	267.09331	317.73527	5.81492	0.0741575	0.27577241	2.3375927	20	—	—
232443 2003 FQ_{93}	15.8	X	1.96778	238.16866	21.48911	28.50729	0.2091425	0.23648411	2.5898110	20	6 15.4	18.8
232444 2003 FA_{100}	17.4	X	17.38307	251.92326	340.87261	2.81116	0.1224310	0.29692246	2.2252255	20	6 8.8	19.3
232445 2003 FV_{100}	17.1	X	265.54723	133.87763	24.34951	3.43014	0.1351356	0.26836309	2.3804233	20	—	—
232446 2003 FY_{114}	17.0	X	253.65421	286.47243	286.00104	1.33539	0.1764861	0.27230766	2.3573794	20	—	—
232447 2003 FP_{120}	17.5	X	313.77492	311.93076	208.35247	1.14483	0.1273117	0.27720231	2.3295471	20	—	—
232448 2003 FR_{121}	17.2	X	229.32926	279.88589	242.91537	2.30334	0.1448859	0.26459035	2.4029978	20	11 24.6	20.3
232449 2003 FX_{127}	17.6	X	268.44424	39.54146	206.58658	4.52613	0.1850767	0.27820103	2.3239684	20	—	—
232450 2003 GG_{7}	16.8	X	270.69236	204.84470	348.63037	1.82024	0.1345630	0.27286660	2.3541590	20	—	—
232451 2003 GJ_{8}	16.9	X	222.90141	239.39335	343.98662	2.11114	0.1352661	0.26902992	2.3764882	20	—	—
232452 2003 GQ_{10}	16.4	X	227.09470	14.28378	158.30994	13.80957	0.1036333	0.26249735	2.4157543	20	12 12.2	19.8
232453 2003 GO_{12}	17.1	X	357.10200	160.57243	335.01311	2.62163	0.1066474	0.28024476	2.3126560	20	—	—
232454 2003 GN_{13}	16.6	X	228.84932	337.14398	230.01664	5.53912	0.0951918	0.26855856	2.3792681	20	—	—
232455 2003 GO_{13}	17.4	X	328.68427	100.90790	359.56833	5.13631	0.1524116	0.27332807	2.3515085	20	—	—
232456 2003 GJ_{36}	16.3	X	294.03312	148.45168	74.77678	9.95459	0.1765322	0.28164220	2.3049998	20	—	—
232457 2003 GM_{36}	18.2	X	294.16741	277.69946	222.41399	1.51467	0.1661368	0.26986529	2.3715814	20	—	—
232458 2003 GE_{40}	16.9	X	243.35989	116.20181	135.99246	5.20855	0.1743788	0.27631735	2.3345183	20	—	—
232459 2003 GM_{40}	17.7	X	287.65711	53.59921	110.00121	3.35750	0.1731205	0.27153599	2.3618435	20	—	—
232460 2003 GK_{43}	16.8	X	160.49772	144.64201	109.86611	4.25683	0.1137731	0.26231555	2.4168704	20	—	—
232461 2003 GD_{51}	17.4	X	225.39694	106.48325	115.00628	2.87649	0.1717287	0.26769755	2.3843671	20	—	—
232462 2003 HH_{3}	17.2	X	271.55626	327.38095	190.11578	1.90886	0.1836977	0.26813479	2.3817743	20	—	—
232463 2003 HQ_{7}	17.3	X	212.18563	178.63746	68.54921	2.20528	0.1500680	0.26820893	2.3813353	20	—	—
232464 2003 HN_{9}	16.9	X	211.07273	114.70199	149.09265	5.78839	0.2113459	0.26849372	2.3796511	20	—	—
232465 2003 HP_{14}	17.1	X	256.53923	180.31992	33.71340	2.70243	0.2019031	0.27263149	2.3555123	20	—	—
232466 2003 HT_{14}	16.5	X	184.90824	67.31632	174.64877	6.29876	0.0753772	0.26437195	2.4043211	20	—	—
232467 2003 HG_{17}	16.7	X	347.71850	333.98731	142.49272	7.71264	0.0521199	0.27280765	2.3544982	20	—	—
232468 2003 HT_{20}	16.9	X	324.19452	327.85597	173.05830	6.01417	0.1917880	0.27278125	2.3546500	20	—	—
232469 2003 HL_{32}	16.3	X	44.32325	168.59696	48.59028	10.49064	0.0781608	0.23661965	2.5888219	20	6 26.3	19.6
232470 2003 HR_{37}	17.2	X	176.33309	346.89076	261.29404	3.92412	0.1722670	0.26223241	2.4173812	20	—	—
232471 2003 HE_{38}	16.5	X	227.03660	358.62188	209.95249	6.24749	0.0862789	0.26571917	2.3961875	20	—	—
232472 2003 HW_{47}	16.9	X	150.53856	163.96390	113.04281	2.69719	0.2047135	0.26204555	2.4185303	20	—	—
232473 2003 HS_{51}	16.5	X	247.30582	46.95752	137.96426	6.84427	0.0792943	0.26688747	2.3891894	20	—	—
232474 2003 JN_{1}	17.0	X	251.83750	58.34086	159.38426	2.84949	0.1565895	0.27027760	2.3691688	20	—	—
232475 2003 JP_{7}	16.6	X	162.61141	88.31958	160.01930	6.38012	0.0779389	0.26106572	2.4245780	20	—	—
232476 2003 JS_{13}	16.5	X	174.79742	118.68132	124.97736	7.20660	0.1058392	0.26074030	2.4265949	20	—	—
232477 2003 JW_{14}	16.1	X	202.73265	334.25066	225.76044	10.32549	0.1846860	0.25986756	2.4320248	20	12 5.5	19.7
232478 2003 KF_{3}	16.3	X	261.02933	356.34163	193.45668	6.27838	0.1092785	0.26740673	2.3860955	20	—	—
232479 2003 KZ_{8}	16.7	X	278.86939	78.52643	113.23609	7.93557	0.1485729	0.27203009	2.3589827	20	—	—
232480 2003 KE_{18}	16.7	X	247.91546	50.12164	148.52450	6.16334	0.1375497	0.26708767	2.3879954	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
232481 2003 LF_2	17.2	X	212.31708	150.97914	84.66856	2.21305	0.1366571	0.26594176	2.3948502	20	—	—
232482 2003 LD_3	17.4	X	178.49282	198.72821	17.74951	1.29988	0.1377625	0.25897850	2.4375877	20	12 5.2	21.1
232483 2003 MC_3	15.4	X	290.70476	270.59703	263.22221	21.98328	0.2855627	0.27108447	2.3644653	20	—	—
232484 2003 MS_4	16.3	X	31.21713	104.09476	193.63378	5.74979	0.2238949	0.23952869	2.5678187	20	10 22.9	19.3
232485 2003 MJ_5	15.7	X	313.92404	196.44003	131.40457	16.33154	0.1631773	0.22965461	2.6409039	20	6 25.8	18.8
232486 2003 NN	15.8	X	328.72709	195.41435	158.44676	7.93740	0.2104686	0.23548163	2.5971560	20	9 1.9	17.7
232487 2003 NE_{12}	16.8	X	115.69979	83.98798	140.63003	12.78117	0.1122069	0.24120358	2.5559178	20	10 16.6	20.8
232488 2003 OW_3	15.8	X	276.42810	222.40036	140.71014	12.49637	0.2049061	0.22553867	2.6729369	20	6 10.6	19.6
232489 2003 OO_5	15.7	X	147.31896	46.42835	314.53296	13.02702	0.3540864	0.20397140	2.8581819	20	2 20.1	21.0
232490 2003 OR_6	17.0	X	325.03390	5.90277	143.83168	22.83297	0.0546085	0.37861316	1.8923679	20	—	—
232491 2003 OB_{22}	15.6	X	226.59960	186.08323	172.68238	10.02032	0.2942220	0.21304145	2.7764721	20	4 10.8	20.6
232492 2003 OJ_{27}	16.2	X	259.41290	197.60643	138.73051	12.41453	0.1325781	0.22076276	2.7113495	20	4 28.9	20.4
232493 2003 OQ_{27}	15.9	X	250.19805	219.10322	146.77378	7.31998	0.1393633	0.22254829	2.6968277	20	5 22.9	19.9
232494 2003 OG_{31}	14.6	X	75.23828	332.23945	333.23984	23.27271	0.2338129	0.18352401	3.0667199	20	12 9.1	19.9
232495 2003 PT	15.6	X	223.36177	21.94973	330.56913	9.74772	0.3045069	0.21417733	2.7666468	20	3 26.6	20.7
232496 2003 PV_6	16.6	X	48.14615	323.33065	323.87472	12.38157	0.3004173	0.23843289	2.5756802	20	11 4.2	20.6
232497 2003 PW_7	16.7	X	282.13652	16.19384	225.90265	4.59209	0.1945384	0.27258129	2.3558015	20	1 7.9	20.3
232498 2003 QT_5	16.0	X	207.28889	51.97310	330.79271	7.70645	0.0687352	0.21560368	2.7544313	20	4 27.8	20.2
232499 2003 QP_7	15.9	X	213.50942	45.43705	324.61892	8.23598	0.1701399	0.21558434	2.7545959	20	4 13.5	20.5
232500 2003 QF_{13}	15.7	X	201.14933	215.73005	139.21556	10.17162	0.1739104	0.21042629	2.7994285	20	3 22.5	20.4
232501 2003 QM_{21}	16.1	X	282.49656	39.50639	0.31208	12.62914	0.2231321	0.22745297	2.6579184	20	8 9.3	19.5
232502 2003 QH_{25}	15.9	X	214.65400	240.64282	168.32956	8.79514	0.1562953	0.22057625	2.7128777	20	6 7.6	20.4
232503 2003 QF_{27}	16.3	X	54.98901	34.23297	251.80661	4.04155	0.2644461	0.23798526	2.5789090	20	11 10.0	20.0
232504 2003 QU_{37}	16.2	X	27.19508	336.29163	317.72036	4.14034	0.0896270	0.23475919	2.6024815	20	9 17.1	19.5
232505 2003 QY_{37}	16.1	X	259.56499	25.20083	321.76646	5.98864	0.1438085	0.22089288	2.7102847	20	5 4.1	20.1
232506 2003 QA_{47}	15.2	X	12.26545	152.28765	180.40452	10.46570	0.2061702	0.17707385	3.1407480	20	10 23.3	18.8
232507 2003 QK_{60}	15.9	X	346.49428	192.63757	150.39015	9.52960	0.1223754	0.23189249	2.6238858	20	9 25.2	18.7
232508 2003 QW_{74}	15.7	X	174.69953	203.98850	188.26500	4.68148	0.1280214	0.21252726	2.7809486	20	4 9.6	20.1
232509 2003 QK_{75}	15.0	X	37.73186	76.95765	275.84211	5.32823	0.1974129	0.18320554	3.0702729	20	12 22.6	19.2
232510 2003 QR_{76}	15.8	X	285.34675	47.02432	277.62751	3.79304	0.1496471	0.22166857	2.7039582	20	5 7.1	19.5
232511 2003 QS_{81}	16.1	X	196.12867	298.14067	344.22110	1.12219	0.0661798	0.20052229	2.8908637	20	—	—
232512 2003 QS_{90}	17.1	X	136.07615	34.91255	313.15192	19.40355	0.0912787	0.37882036	1.8916778	20	—	—
232513 2003 QF_{95}	15.7	X	13.00613	13.03872	37.74232	11.99571	0.3453704	0.18485133	3.0520220	20	—	—
232514 2003 QX_{97}	17.1	X	328.87869	334.21764	349.22993	0.87549	0.1616049	0.22882762	2.6472630	20	7 18.1	19.7
232515 2003 QU_{103}	15.6	X	294.92343	199.91302	116.67330	5.16414	0.1021797	0.22016339	2.7162682	20	5 19.6	19.2
232516 2003 QW_{104}	16.0	X	131.39794	298.42550	53.01429	10.42652	0.2870893	0.25593840	2.4568525	20	1 21.8	19.9
232517 2003 QX_{109}	15.2	X	312.87946	125.69281	305.67755	26.22393	0.2169766	0.17769497	3.1334250	20	10 19.4	19.3
232518 2003 RN_2	15.9	X	281.30424	216.01913	153.23135	6.22005	0.0783759	0.22675125	2.6633992	20	7 13.5	19.3
232519 2003 RG_6	16.2	X	215.95819	53.40152	330.17863	4.80318	0.0849473	0.21830457	2.7316654	20	5 9.2	20.4
232520 2003 RG_{15}	15.8	X	44.94584	140.67802	229.31029	13.72494	0.0745329	0.18691481	3.0295183	20	—	—
232521 2003 RM_{18}	15.7	X	115.85178	108.10817	199.47471	9.86115	0.1067401	0.19021188	2.9944079	20	—	—
232522 2003 RP_{25}	14.8	X	336.39525	46.48806	333.49792	23.40264	0.2320190	0.17471051	3.1690082	20	9 29.8	18.3
232523 2003 SU_1	15.9	X	259.06556	43.00707	350.72752	5.55589	0.0336957	0.22545437	2.6736032	20	7 25.3	19.5
232524 2003 SY_{11}	16.4	X	218.19296	240.40519	117.81406	0.54773	0.0872841	0.21389367	2.7690923	20	4 11.5	20.3
232525 2003 SZ_{12}	15.8	X	46.14661	355.55410	356.36816	9.72441	0.0761294	0.18423434	3.0588322	20	12 14.4	20.3
232526 2003 SV_{13}	16.0	X	219.64811	225.64506	152.26966	5.46411	0.0715947	0.21664319	2.7456132	20	5 10.7	20.1
232527 2003 SB_{16}	15.5	X	111.23495	240.18754	169.22764	12.80458	0.1373047	0.20249078	2.8720977	20	2 25.4	19.6
232528 2003 SZ_{19}	16.2	X	145.21828	60.16789	315.07202	1.04713	0.0812540	0.20445841	2.8536414	20	2 15.7	20.3
232529 2003 SG_{20}	15.6	X	62.31848	231.55989	346.83483	14.17300	0.1049924	0.22640072	2.6661476	20	8 2.7	19.2
232530 2003 ST_{25}	15.7	X	208.42163	348.65917	10.35015	3.16340	0.1245883	0.21091712	2.7950838	20	3 31.9	20.2
232531 2003 SL_{30}	16.6	X	108.91266	46.31689	29.24215	2.24694	0.0511805	0.20449749	2.8532778	20	3 15.7	20.4
232532 2003 SW_{38}	15.7	X	353.78478	63.98413	294.31825	9.11005	0.1801446	0.17461371	3.1701793	20	10 12.8	19.4
232533 2003 SC_{43}	15.6	X	304.25113	22.68326	282.45152	6.66322	0.0599958	0.22112970	2.7083492	20	5 21.3	19.0
232534 2003 SC_{61}	16.0	X	232.57701	225.23791	127.88913	4.69780	0.1917227	0.21567112	2.7538570	20	4 14.7	20.5
232535 2003 SF_{62}	15.7	X	39.75379	152.81172	222.60288	9.61792	0.0867787	0.18667285	3.0321355	20	—	—
232536 2003 SZ_{72}	15.5	X	303.36022	346.44981	347.22485	9.35208	0.1885251	0.22395997	2.6854833	20	6 8.9	18.9
232537 2003 SO_{75}	15.7	X	271.33843	188.49942	184.40176	5.04723	0.1196305	0.22276322	2.6950928	20	6 28.0	19.4
232538 2003 SV_{87}	15.8	X	336.83331	159.66130	155.33415	12.68780	0.1273141	0.22681376	2.6629098	20	7 21.9	18.7
232539 2003 SG_{103}	15.9	X	213.09894	33.81022	319.47516	2.89634	0.1121271	0.21043161	2.7993813	20	3 28.8	20.3
232540 2003 SV_{108}	15.4	X	174.15806	313.18967	340.36312	9.95284	0.0286451	0.19236838	2.9719871	20	—	—
232541 2003 SU_{118}	16.1	X	282.67314	176.59774	178.40702	6.32056	0.0332830	0.22142867	2.7059108	20	7 2.5	19.7
232542 2003 SW_{119}	16.7	X	222.06655	1.70162	343.82008	3.29438	0.1064836	0.21226341	2.7832526	20	3 28.8	21.0
232543 2003 SF_{129}	15.2	X	220.62937	106.67697	203.38809	12.23855	0.0383826	0.20542683	2.8446660	20	2 13.9	19.5
232544 2003 SR_{151}	15.2	X	10.12458	312.73404	141.39036	11.09734	0.0706088	0.19314589	2.9640059	20	—	—
232545 2003 SM_{173}	16.0	X	346.89544	118.09960	165.08798	5.78882	0.0114330	0.22220800	2.6995804	20	6 27.3	19.6
232546 2003 SJ_{178}	15.1	X	43.22028	25.49981	328.66759	9.22667	0.0651776	0.18209177	3.0827798	20	12 11.7	19.5
232547 2003 SW_{178}	16.1	X	180.76701	48.39805	329.61374	3.45612	0.1181757	0.20954705	2.8072538	20	3 27.4	20.5
232548 2003 SR_{190}	16.1	X	288.09023	121.50370	194.91567	4.77349	0.1150970	0.21812794	2.7331398	20	5 7.2	19.7
232549 2003 SO_{200}	16.6	X	39.53133	126.79223	288.78174	19.81701	0.1301543	0.36985799	1.9221151	20	—	—
232550 2003 SP_{200}	14.8	X	349.16172	168.39127	223.44228	27.93312	0.1709801	0.17962993	3.1108824	20	11 23.2	18.4
232551 2003 SJ_{206}	15.5	X	115.65147	101.19769	336.36885	24.54468	0.1258958	0.20939040	2.8086538	20	3 24.2	19.9
232552 2003 SD_{209}	15.8	X	65.08334	61.42434	289.23760	5.59545	0.1525985	0.18899742	3.0072218	20	—	—
232553 Randypeterson	16.1	X	264.63585	111.89468	198.61693	3.96970	0.0523908	0.21178689	2.7874259	20	4 7.9	20.0
232554 2003 SZ_{222}	15.1	X	21.89811	139.63924	201.75778	15.35325	0.1979844	0.17718677	3.1394135	20	11 17.4	19.1
232555 2003 SA_{236}	16.2	X	220.28978	10.46918	15.73876	3.63362	0.1027075	0.21733386	2.7397933	20	5 17.1	20.4
232556 2003 SK_{242}	16.2	X	203.03478	24.82317	321.22803	1.33193	0.0378638	0.20516116	2.8471212	20	3 12.4	20.1
232557 2003 SD_{248}	16.1	X	223.05722	163.85938	196.12724	4.92968	0.0705774	0.21352242	2.7723011	20	4 20.4	20.2
232558 2003 SX_{252}	16.0	X	197.29211	139.26845	208.80704	3.15693	0.1100919	0.21021163	2.8013340	20	3 7.2	20.4
232559 2003 SO_{271}	15.6	X	327.52819	284.52238	47.92955	14.43261	0.1347486	0.22479751	2.6788088	20	8 5.9	18.8
232560 2003 SN_{274}	16.4	X	284.50085	339.98503	342.75773	5.64142	0.1052175	0.21758540	2.7376813	20	5 9.3	20.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
232561 2003 SS_{274}	16.3	X	299.78642	308.64921	43.03426	2.90380	0.1664130	0.22371242	2.6874640	20	7 3.9	19.4
232562 2003 SE_{275}	15.3	X	25.91801	123.97235	231.31388	17.97886	0.1929948	0.18007322	3.1057748	20	12 8.6	19.4
232563 2003 SB_{279}	16.2	X	314.98713	347.56179	305.44882	4.09787	0.1391915	0.22030456	2.7151077	20	5 8.8	19.6
232564 2003 SQ_{286}	15.3	X	82.29936	295.87941	331.15062	12.47802	0.1620316	0.23458358	2.6037801	20	10 28.0	19.4
232565 2003 SU_{288}	16.2	X	325.94201	259.21514	55.31528	5.94720	0.0572286	0.22246337	2.6975140	20	7 8.4	19.6
232566 2003 SA_{290}	15.7	X	321.34843	209.57479	68.68341	7.10509	0.0304952	0.21572576	2.7533920	20	5 14.9	19.2
232567 2003 SY_{292}	15.7	X	167.05312	100.63800	346.75195	17.06618	0.1140192	0.21641992	2.7475013	20	6 7.1	20.3
232568 2003 SW_{295}	15.5	X	274.72631	220.66088	253.16726	9.11520	0.1874340	0.17741634	3.1367048	20	10 25.8	19.7
232569 2003 SH_{300}	15.7	X	98.54613	201.04854	260.71071	5.34883	0.0076227	0.21044008	2.7993062	20	3 25.5	19.6
232570 2003 SX_{302}	16.2	X	40.83273	334.18530	92.99488	2.39422	0.1962888	0.19074671	2.9888080	20	—	—
232571 2003 SJ_{308}	17.0	X	14.65295	76.95922	340.94819	18.55703	0.1145675	0.36207855	1.9495491	20	—	—
232572 2003 SE_{313}	15.3	X	27.43282	77.83727	272.87288	9.61771	0.1147433	0.17799288	3.1299276	20	11 22.9	19.5
232573 2003 SB_{322}	15.2	X	1.37923	221.90601	136.12800	10.35575	0.0806708	0.17432325	3.1736997	20	10 26.6	19.5
232574 2003 SH_{324}	16.4	X	164.24601	101.89651	306.19600	3.17051	0.1031401	0.21126097	2.7920500	20	4 15.9	20.7
232575 2003 SK_{333}	15.6	X	201.88303	216.24502	128.75387	10.39329	0.1731308	0.20953743	2.8073397	20	3 11.4	20.3
232576 2003 ST_{337}	15.1	X	194.47704	321.96052	191.78525	15.22055	0.1039470	0.17336600	3.1853715	20	9 24.4	20.1
232577 2003 SK_{338}	16.4	X	99.02533	116.18826	14.53552	3.99074	0.0456377	0.21379722	2.7699250	20	5 10.3	20.3
232578 2003 SQ_{344}	16.5	X	263.63197	142.96517	170.05278	3.13053	0.0726260	0.21296695	2.7771196	20	4 7.8	20.4
232579 2003 SM_{351}	15.9	X	269.68049	203.28913	92.65156	5.52579	0.0442445	0.21078089	2.7962879	20	3 30.8	19.9
232580 2003 SZ_{356}	15.7	X	84.18355	252.39359	346.61662	13.28274	0.1306939	0.23190667	2.6237788	20	9 24.0	19.5
232581 2003 SF_{363}	16.4	X	31.01273	203.01269	320.09092	1.18505	0.0118477	0.20534119	2.8454569	20	3 19.8	20.3
232582 2003 SA_{412}	17.1	X	139.47212	277.90250	176.37413	3.79389	0.0614064	0.21465451	2.7625450	20	5 16.7	21.1
232583 2003 SA_{414}	16.6	X	118.92912	246.93386	150.82080	2.63208	0.0875981	0.20165715	2.8800076	20	2 14.4	20.6
232584 2003 TX_{13}	17.1	X	96.90458	63.22550	303.12737	17.30660	0.0628391	0.37109217	1.9178510	20	—	—
232585 2003 TQ_{14}	15.2	X	34.46561	282.82994	47.22291	22.01546	0.1609197	0.17655047	3.1469521	20	11 13.1	19.4
232586 2003 TK_{30}	15.4	X	285.30630	91.37001	22.99459	13.29054	0.0623195	0.18019066	3.1044251	20	11 26.5	19.8
232587 2003 TK_{38}	15.7	X	181.40033	8.94783	230.46805	11.48122	0.0264081	0.18479734	3.0526165	20	12 28.5	20.2
232588 2003 TL_{51}	15.3	X	244.68865	33.77205	285.23523	13.71851	0.1744875	0.21192615	2.7862046	20	3 7.6	20.1
232589 2003 TO_{51}	15.4	X	171.51180	76.68266	281.04918	13.45124	0.1686805	0.20436175	2.8545411	20	2 21.1	20.2
232590 2003 TA_{53}	16.5	X	209.57352	220.90283	154.08741	5.63617	0.0782711	0.21155818	2.7894345	20	4 25.6	20.7
232591 2003 TE_{55}	16.0	X	355.45373	282.22888	102.87215	5.83083	0.1307381	0.17792010	3.1307811	20	11 22.8	19.8
232592 2003 UZ_{1}	16.4	X	193.37189	87.65063	286.55160	2.27688	0.0909622	0.20887696	2.8132545	20	4 4.1	20.7
232593 2003 UU_{4}	15.3	X	345.69941	266.92011	109.54832	17.60266	0.2766545	0.17454421	3.1710208	20	11 10.2	18.6
232594 2003 UJ_{9}	14.7	X	330.02164	295.71594	103.33801	27.72575	0.2164519	0.17331222	3.1860305	20	11 8.9	18.6
232595 2003 UP_{9}	15.6	X	20.78773	285.06108	12.95564	11.28919	0.1978032	0.22774659	2.6556334	20	9 30.2	18.3
232596 2003 UR_{24}	16.5	X	228.45673	357.17769	245.65829	18.04370	0.0848245	0.36745462	1.9304871	20	—	—
232597 2003 UT_{49}	15.9	X	198.66396	197.17521	296.30027	10.19528	0.1062429	0.22486992	2.6782337	20	9 5.6	20.1
232598 2003 UN_{52}	15.1	X	296.03936	97.94267	337.62917	15.10062	0.0896076	0.17399159	3.1777315	20	10 15.9	19.6
232599 2003 UY_{52}	15.4	X	72.88804	100.60682	341.97442	10.60989	0.0737540	0.19713031	2.9239309	20	2 12.2	19.2
232600 2003 UC_{54}	15.6	X	58.37121	131.90346	314.79045	10.60823	0.2270203	0.19279060	2.9676463	20	2 12.9	18.7
232601 2003 UZ_{55}	15.8	X	252.40357	22.14255	317.05445	5.29694	0.0717074	0.21324993	2.7746622	20	4 24.9	19.8
232602 2003 UX_{71}	15.8	X	318.55304	259.98663	227.36624	4.58655	0.1111182	0.18787130	3.0192269	20	—	—
232603 2003 UZ_{71}	16.0	X	107.13744	200.86823	283.05828	1.79498	0.0882745	0.21196253	2.7858858	20	5 18.4	20.0
232604 2003 UK_{75}	15.8	X	312.42175	353.97779	308.10823	4.27785	0.1003961	0.21840714	2.7308101	20	5 23.8	19.1
232605 2003 UB_{76}	15.9	X	260.64257	3.40623	324.02378	3.76107	0.0726964	0.21321423	2.7749719	20	4 20.3	20.0
232606 2003 UH_{86}	15.7	X	36.93423	147.67320	278.77140	4.06510	0.2662236	0.18649003	3.0341169	20	—	—
232607 2003 UD_{92}	15.3	X	348.55058	330.80932	96.16112	6.98602	0.0487902	0.18249609	3.0782248	20	12 28.4	19.2
232608 2003 US_{93}	16.2	X	133.29200	97.04476	290.96324	0.92978	0.0821429	0.20108463	2.8854715	20	2 18.2	20.4
232609 2003 UJ_{96}	15.9	X	141.71548	167.30518	178.33864	5.38683	0.1486430	0.19644461	2.9307311	20	1 14.9	20.4
232610 2003 UY_{99}	15.7	X	254.16004	179.73920	191.25742	11.21623	0.1742849	0.21665667	2.7454993	20	5 29.2	20.0
232611 2003 UQ_{111}	16.4	X	290.62660	154.71733	177.88403	6.03023	0.0384148	0.21753674	2.7380895	20	6 13.1	20.1
232612 2003 UL_{118}	15.6	X	77.98013	91.86420	224.22136	9.06157	0.0631578	0.18098425	3.0953435	20	12 7.1	20.1
232613 2003 UX_{118}	15.3	X	135.27757	45.71727	210.24297	13.77683	0.0765769	0.18083780	3.0970146	20	11 28.4	20.1
232614 2003 UD_{122}	15.5	X	8.64747	11.17660	342.36744	18.44261	0.1435691	0.17613776	3.1518660	20	10 25.0	19.7
232615 2003 UJ_{126}	15.8	X	133.82657	63.30131	320.38619	6.22603	0.1378772	0.19883040	2.9072398	20	2 19.8	20.2
232616 2003 UY_{134}	15.3	X	12.76303	101.83663	258.16728	4.51661	0.1855077	0.17522690	3.1627791	20	11 22.8	19.1
232617 2003 UY_{148}	16.1	X	171.19430	230.97183	163.68656	9.15041	0.2238438	0.20520958	2.8466733	20	4 14.3	21.0
232618 2003 UV_{150}	15.3	X	60.98454	126.83682	197.41541	8.86654	0.0814402	0.17966494	3.1104782	20	11 30.2	19.8
232619 2003 UO_{151}	15.8	X	231.29859	245.08104	90.60841	8.20591	0.2331421	0.20971555	2.8057500	20	3 23.8	20.7
232620 2003 UR_{153}	15.8	X	164.37520	64.93772	301.66133	12.09602	0.1323615	0.20526072	2.8462004	20	2 24.9	20.4
232621 2003 UR_{163}	15.7	X	259.23474	226.21555	201.31505	11.08001	0.1623146	0.22431855	2.6826206	20	8 15.3	19.6
232622 2003 UJ_{170}	16.6	X	101.42339	41.12395	51.61857	2.23361	0.1441731	0.20190141	2.8776843	20	4 10.4	20.7
232623 2003 UH_{171}	16.2	X	358.62795	20.88961	96.92114	2.19847	0.2542329	0.18608396	3.0385293	20	—	—
232624 2003 UK_{171}	16.4	X	60.61696	333.28211	68.89574	1.71283	0.1854822	0.18878447	3.0094828	20	—	—
232625 2003 UQ_{177}	15.9	X	174.92713	47.87324	9.75510	6.27157	0.0305128	0.21241801	2.7819020	20	5 7.1	19.9
232626 2003 UO_{179}	15.8	X	185.77773	296.37915	100.98566	5.03815	0.1082488	0.20935438	2.8089759	20	4 28.2	20.2
232627 2003 UU_{189}	15.4	X	20.73649	329.34071	59.15145	10.65612	0.2193692	0.18092957	3.0959672	20	—	—
232628 2003 UY_{198}	15.4	X	72.39439	181.94745	217.66915	10.14584	0.1315059	0.19140578	2.9819431	20	—	—
232629 2003 US_{201}	15.4	X	342.12623	44.46275	48.61477	10.79348	0.2311392	0.18193704	3.0845274	20	—	—
232630 2003 UH_{205}	15.8	X	344.76030	310.54657	327.16834	6.37338	0.1004436	0.21840962	2.7307894	20	6 13.2	19.0
232631 2003 UU_{211}	16.5	X	22.50289	25.64814	26.88274	1.51219	0.1825934	0.18337252	3.0684087	20	—	—
232632 2003 UY_{221}	15.8	X	67.71328	63.34076	71.69891	6.82788	0.1486896	0.20345566	2.8630100	20	4 22.8	19.4
232633 2003 UB_{225}	15.8	X	17.91324	84.46079	7.97861	6.27786	0.2392142	0.18738773	3.0244189	20	—	—
232634 2003 UO_{225}	15.7	X	349.19840	142.20223	236.71320	8.48616	0.0761712	0.17426106	3.1744548	20	10 29.6	19.7
232635 2003 UO_{229}	16.1	X	172.59580	126.41886	293.43443	3.19595	0.0953666	0.20940792	2.8084971	20	5 9.7	20.5
232636 2003 UY_{248}	15.9	X	25.24428	358.45018	346.96516	5.66483	0.1798741	0.17770925	3.1332571	20	11 21.8	20.0
232637 2003 UO_{250}	16.2	X	64.16633	76.11301	345.84466	4.35492	0.1425375	0.19099828	2.9861830	20	1 12.7	19.7
232638 2003 UU_{256}	16.2	X	28.92335	163.62432	206.77288	11.36886	0.1449100	0.23789170	2.5795851	20	—	—
232639 2003 UC_{276}	15.6	X	14.58158	43.74186	34.97211	7.82622	0.2402854	0.18429142	3.0582006	20	—	—
232640 2003 UA_{293}	14.5	X	343.29978	266.99387	105.06968	17.73280	0.2157990	0.17126755	3.2113379	20	10 26.1	18.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
232641 2003 UK_{296}	16.2	X	132.57549	43.37332	26.23098	2.81034	0.0475195	0.20694267	2.8307577	20	4 4.9	20.1
232642 2003 UQ_{304}	15.2	X	240.07438	279.72941	263.56142	9.75505	0.1777009	0.18306730	3.0718184	20	12 10.4	19.5
232643 2003 UX_{309}	15.7	X	220.35004	70.26372	281.61378	6.85996	0.0778126	0.20963602	2.8064595	20	4 2.9	20.0
232644 2003 UR_{355}	16.3	X	33.26504	96.10952	12.97003	6.60150	0.1506009	0.19340415	2.9613668	20	1 22.8	19.6
232645 2003 UG_{372}	16.0	X	120.40319	247.78424	259.16660	10.84845	0.2156574	0.22302312	2.6929986	20	7 13.8	20.4
232646 2003 UV_{377}	16.7	X	339.98836	95.17698	182.42328	5.15737	0.0823764	0.22040300	2.7142992	20	6 6.8	20.0
232647 2003 UT_{416}	15.7	X	23.85019	264.53552	181.57266	10.00889	0.0783303	0.18856275	3.0118415	20	—	—
232648 2003 VJ_{10}	15.0	X	266.79467	305.30584	357.89401	12.16051	0.1010418	0.20637239	2.8359701	20	3 25.2	19.0
232649 2003 WC_{1}	15.4	X	12.88142	278.34010	67.14650	8.36288	0.1131605	0.17132481	3.2106222	20	10 28.4	19.5
232650 2003 WY_{4}	16.1	X	136.99419	135.41203	327.91388	4.94673	0.0163368	0.20974466	2.8054904	20	5 18.7	20.1
232651 2003 WG_{15}	15.9	X	341.54635	327.58952	53.70056	4.47337	0.0750715	0.17244052	3.1967586	20	10 22.9	20.0
232652 2003 WE_{17}	15.5	X	55.66434	259.23307	150.34566	10.72611	0.0939523	0.18665850	3.0322910	20	—	—
232653 2003 WW_{18}	15.4	X	86.03439	123.71395	280.83620	10.17076	0.1674845	0.19191589	2.9766568	20	1 23.9	19.2
232654 2003 WQ_{19}	16.1	X	136.29650	189.46808	296.30727	7.12113	0.1667255	0.20933950	2.8091090	20	6 30.2	20.5
232655 2003 WM_{20}	15.9	X	325.69652	94.41564	29.23919	11.96633	0.2856520	0.17938769	3.1136822	20	—	—
232656 2003 WM_{29}	15.4	X	20.55369	66.75026	26.77720	10.12478	0.0482352	0.18803810	3.0174412	20	—	—
232657 2003 WV_{37}	15.7	X	327.81400	80.11575	7.39633	9.50196	0.2096989	0.17695503	3.1421539	20	12 27.4	19.1
232658 2003 WR_{43}	15.5	X	310.20133	16.41736	299.10521	10.52728	0.0964409	0.21581387	2.7526425	20	6 9.5	19.1
232659 2003 WP_{44}	15.5	X	358.98290	123.54991	307.79001	9.54479	0.1601901	0.18138380	3.0907963	20	—	—
232660 2003 WN_{46}	15.3	X	287.36567	238.41940	217.31368	13.92967	0.0339024	0.17542038	3.1604531	20	11 11.9	19.6
232661 2003 WU_{73}	15.2	X	66.57124	69.61878	309.68566	11.17069	0.2038239	0.18499128	3.0504826	20	—	—
232662 2003 WH_{125}	15.4	X	6.02139	35.36086	23.48953	5.33699	0.1532313	0.17725066	3.1386591	20	—	—
232663 2003 WE_{126}	14.7	X	290.36568	71.09550	81.36964	24.47252	0.1733865	0.17428710	3.1741385	20	—	—
232664 2003 WM_{140}	15.7	X	15.23569	355.13127	47.79597	3.15976	0.1854448	0.17909064	3.1171243	20	—	—
232665 2003 WA_{161}	16.4	X	8.80626	349.43497	226.24299	2.57721	0.1335477	0.20379703	2.8598120	20	4 28.6	19.6
232666 2003 WQ_{163}	15.8	X	298.24389	102.70940	65.07908	6.71609	0.2250610	0.18110394	3.0939796	20	—	—
232667 2003 WV_{171}	15.1	X	331.46916	280.18252	209.78161	25.42598	0.2212427	0.18161975	3.0881188	20	—	—
232668 2003 XJ_{2}	16.0	X	68.46794	242.24694	159.78400	5.33585	0.1975353	0.18851233	3.0123785	20	—	—
232669 2003 XV_{12}	15.5	X	41.14286	96.97870	358.56083	12.51897	0.1196498	0.18659371	3.0329928	20	1 20.6	19.4
232670 2003 XN_{16}	15.8	X	49.29747	271.53986	139.33157	5.37345	0.2283032	0.18585016	3.0410770	20	—	—
232671 2003 XO_{18}	15.5	X	13.94929	94.48558	324.20443	8.28142	0.0825265	0.17997779	3.1068725	20	—	—
232672 2003 XF_{41}	16.4	X	20.10795	173.99592	260.85753	1.78145	0.1703773	0.18329472	3.0692769	20	—	—
232673 2003 YU_{32}	15.6	X	3.67426	226.67389	225.42494	13.14615	0.1365615	0.18321886	3.0701241	20	—	—
232674 2003 YF_{45}	15.1	X	76.79578	266.55235	122.54695	10.73213	0.1034446	0.18216591	3.0819433	20	—	—
232675 2003 YB_{55}	15.1	X	296.38491	94.25523	79.23888	21.33494	0.1364706	0.18223204	3.0811976	20	—	—
232676 2003 YZ_{58}	16.2	X	43.53275	350.68612	98.94191	3.79686	0.1948090	0.18821320	3.0155695	20	1 18.2	19.3
232677 2003 YG_{65}	15.3	X	335.83123	11.82632	117.59240	19.86620	0.1836163	0.17697261	3.1419457	20	—	—
232678 2003 YD_{77}	15.3	X	352.56649	9.30031	75.51988	11.39944	0.1120686	0.17754320	3.1352104	20	—	—
232679 2003 YC_{99}	15.1	X	41.23734	331.84330	106.90703	12.18466	0.0677690	0.18349405	3.0670538	20	—	—
232680 2003 YO_{115}	15.2	X	203.05355	142.74663	120.87290	6.52888	0.0945056	0.17753124	3.1353511	20	—	—
232681 2003 YO_{116}	15.4	X	277.82511	269.74704	262.25585	3.58143	0.1513505	0.17434787	3.1734010	20	—	—
232682 2003 YR_{119}	15.4	X	343.58656	152.69383	309.10598	10.05224	0.0826224	0.17605698	3.1528300	20	—	—
232683 2003 YR_{132}	14.9	X	207.99708	150.22696	74.40264	15.18005	0.1025535	0.17203849	3.2017369	20	12 30.5	19.7
232684 2003 YN_{133}	15.8	X	9.22878	115.57871	321.17162	6.11870	0.1584794	0.17845678	3.1245011	20	—	—
232685 2003 YR_{140}	15.3	X	17.70226	61.79199	334.12196	9.63774	0.3041713	0.17916190	3.1162977	20	—	—
232686 2003 YR_{143}	15.4	X	332.90271	112.61460	9.08702	10.36534	0.0484346	0.17905361	3.1175540	20	—	—
232687 2003 YL_{151}	14.4	X	265.61391	236.13317	328.07390	25.70789	0.2038241	0.17584692	3.1553403	20	—	—
232688 2003 YQ_{152}	15.5	X	335.63578	320.98978	107.14727	10.90635	0.0501237	0.17062512	3.2193935	20	12 10.5	19.8
232689 2003 YN_{158}	14.5	X	57.28511	16.89926	277.47741	21.44162	0.0848207	0.17152103	3.2081732	20	10 9.2	19.4
232690 2003 YJ_{180}	15.4	X	347.11140	0.86910	112.87642	11.13527	0.0720801	0.17863521	3.1224201	20	—	—
232691 2004 AR_{1}	19.8	X	129.64330	50.27966	336.52619	9.07741	0.4694442	0.49815335	1.5760162	20	2 29.9	21.1
232692 2004 AM_{6}	15.1	X	94.47651	64.87133	301.07927	15.08489	0.0990378	0.17975000	3.1094968	20	—	—
232693 2004 AU_{8}	15.0	X	330.73099	192.14248	261.35482	8.62226	0.0780831	0.17003923	3.2267845	20	—	—
232694 2004 AC_{26}	15.9	X	345.82759	107.40466	358.89197	4.25414	0.2261823	0.17723085	3.1388929	20	—	—
232695 2004 AU_{26}	14.7	X	230.69065	261.25282	286.11306	18.79246	0.0615303	0.16880978	3.2424328	20	12 17.6	19.4
232696 2004 BD	15.4	X	340.60288	115.67540	304.32284	21.67688	0.2329756	0.17130116	3.2109178	20	12 17.9	19.0
232697 2004 BA_{13}	15.8	X	18.61539	331.53868	129.86537	6.79736	0.1416807	0.18080978	3.0973345	20	—	—
232698 2004 BT_{13}	15.5	X	224.35870	250.33430	325.42240	5.95550	0.0685866	0.17154458	3.2078795	20	—	—
232699 2004 BS_{14}	15.3	X	7.23623	112.73166	294.03129	3.94435	0.2219254	0.17386243	3.1793052	20	—	—
232700 2004 BZ_{14}	15.6	X	336.09118	305.12394	140.26802	6.24955	0.1562558	0.17182442	3.2043956	20	—	—
232701 2004 BC_{20}	15.2	X	257.22506	112.38420	101.96857	12.70361	0.1705150	0.17340635	3.1848774	20	—	—
232702 2004 BW_{27}	17.5	X	2.14063	81.41541	94.92822	2.48782	0.0652208	0.30846186	2.1693772	20	2 10.2	19.7
232703 2004 BV_{29}	15.1	X	278.74072	222.05128	332.45498	8.21091	0.1877473	0.17403984	3.1771442	20	—	—
232704 2004 BY_{35}	15.6	X	306.26656	145.30217	326.48091	9.10131	0.1035716	0.16967494	3.2314014	20	12 19.9	19.8
232705 2004 BE_{48}	15.4	X	38.05615	220.78456	120.70502	17.47626	0.2310913	0.22787867	2.6546072	20	12 25.6	19.3
232706 2004 BO_{48}	15.8	X	358.60260	162.58623	299.37715	8.51318	0.1878818	0.17857219	3.1231548	20	—	—
232707 2004 BV_{49}	15.0	X	71.34755	74.39764	296.66944	9.89152	0.0851267	0.17540017	3.1606959	20	—	—
232708 2004 BF_{53}	15.3	X	271.14352	98.28848	120.38202	11.96657	0.2198653	0.17877203	3.1208268	20	—	—
232709 2004 BN_{59}	16.0	X	9.11120	4.21108	141.54452	8.73104	0.2149795	0.18408641	3.0604708	20	1 23.2	19.0
232710 2004 BY_{71}	15.4	X	311.07828	252.97671	223.12945	4.38613	0.1546846	0.17155203	3.2077867	20	12 30.4	19.1
232711 2004 BP_{73}	14.9	X	346.27579	149.83628	307.51157	12.57982	0.0216388	0.17251848	3.1957953	20	—	—
232712 2004 BK_{76}	15.4	X	291.85941	355.79593	164.94489	6.18868	0.0921237	0.17340141	3.1849379	20	—	—
232713 2004 BP_{90}	15.0	X	279.15657	70.64924	144.30771	10.71013	0.1650955	0.17681272	3.1438396	20	—	—
232714 2004 BX_{91}	15.9	X	5.09611	257.50031	208.44031	4.29441	0.1234827	0.17880286	3.1204681	20	—	—
232715 2004 BP_{92}	14.6	X	59.48772	260.34810	151.16648	23.10998	0.0521475	0.17876162	3.1209480	20	—	—
232716 2004 BU_{98}	15.8	X	9.65026	148.22001	352.34473	16.99369	0.2204545	0.18050460	3.1008246	20	1 24.7	19.2
232717 2004 BQ_{120}	15.1	X	307.31919	132.65799	5.63877	11.31755	0.1766687	0.17439987	3.1727701	20	—	—
232718 2004 BC_{126}	15.8	X	215.10191	231.45137	42.06949	2.50297	0.0254560	0.18123848	3.0924483	20	1 2.5	20.2
232719 2004 BN_{142}	15.6	X	281.86212	90.92325	105.53542	2.36962	0.1249127	0.17689191	3.1429012	20	—	—
232720 2004 CG_{3}	15.2	X	277.53985	205.69029	13.23195	13.71692	0.1052242	0.17917890	3.1161006	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
232721 2004 CC_{6}	15.5	X	84.12630	95.26152	316.82798	9.00655	0.0744361	0.18204418	3.0833170	20	1 21.9	19.7
232722 2004 CA_{11}	15.8	X	334.23596	241.66942	229.16682	1.31985	0.1029562	0.17293660	3.1906422	20	—	—
232723 2004 CC_{32}	15.6	X	13.53582	249.60481	212.79423	2.85016	0.0278580	0.17916738	3.1162342	20	—	—
232724 2004 CA_{57}	15.6	X	113.85148	84.55333	33.74116	5.59314	0.1005350	0.19926570	2.9030043	20	5 20.4	19.9
232725 2004 CY_{57}	15.0	X	342.97393	60.13968	90.33169	10.45907	0.0601780	0.18144664	3.0900827	20	1 2.5	19.0
232726 2004 CK_{65}	15.3	X	212.99655	160.01240	65.17533	4.38307	0.2762951	0.16582013	3.2812895	20	12 18.6	20.6
232727 2004 CU_{115}	16.0	X	331.65742	76.77033	78.35830	2.12763	0.1173252	0.18005420	3.1059935	20	—	—
232728 2004 DP_{6}	15.9	X	342.75449	209.26437	49.03543	1.39246	0.1676438	0.19274972	2.9680659	20	5 8.4	19.2
232729 2004 DQ_{16}	17.4	X	19.59809	286.42557	245.51397	5.32976	0.0416165	0.30965751	2.1637893	20	2 29.8	19.8
232730 2004 EX_{9}	15.3	X	341.70878	303.29281	174.73690	11.13274	0.0443004	0.17108193	3.2136602	20	—	—
232731 2004 EH_{15}	15.3	X	352.86578	71.00240	122.13179	10.70939	0.0595604	0.18362861	3.0655553	20	3 11.8	19.4
232732 2004 EO_{15}	15.0	X	27.33401	243.74976	175.98559	12.03661	0.1074389	0.17195299	3.2027982	20	—	—
232733 2004 ES_{43}	15.3	X	26.01419	31.20006	86.17233	14.66048	0.2621874	0.18182255	3.0858221	20	1 24.3	18.2
232734 2004 EQ_{73}	15.6	X	53.56745	79.54220	85.05694	6.85153	0.1518689	0.19022435	2.9942771	20	5 11.2	19.3
232735 2004 FB_{27}	17.0	X	169.41342	95.18689	194.88766	1.24146	0.1020915	0.28835606	2.2690810	20	—	—
232736 2004 FD_{28}	16.2	X	207.29391	44.34198	199.25258	23.02521	0.1439803	0.28431898	2.2905098	20	—	—
232737 2004 FS_{30}	17.0	X	252.02140	191.23411	118.31538	7.36454	0.1757824	0.30393545	2.1908626	20	3 5.1	20.2
232738 2004 FJ_{34}	15.4	X	347.38230	10.34754	192.24577	22.18159	0.0603988	0.18310418	3.0714059	20	3 10.1	19.7
232739 2004 FM_{62}	15.4	X	269.39451	105.61936	170.97813	12.18233	0.1546954	0.18067090	3.0989215	20	2 20.6	20.3
232740 2004 FW_{84}	17.2	X	42.34701	64.04234	13.41247	4.16042	0.1238812	0.29545153	2.2326049	20	—	—
232741 2004 FP_{94}	14.7	X	313.71970	133.48422	95.60400	11.77675	0.0696463	0.18443815	3.0565784	20	3 3.4	19.0
232742 2004 FP_{101}	16.0	X	341.30813	323.62918	92.18824	7.20206	0.0396135	0.21809700	2.7333983	20	12 14.0	19.5
232743 2004 FO_{120}	16.9	X	272.44388	175.82901	105.10699	6.66665	0.1718207	0.30162624	2.2020304	20	2 17.7	20.0
232744 2004 GK_{24}	16.6	X	252.26259	13.56611	196.05042	23.92479	0.0941955	0.28700041	2.2762207	20	—	—
232745 2004 HL_{18}	14.8	X	266.08239	135.63059	52.84496	23.46085	0.1610579	0.16198997	3.3328106	20	—	—
232746 2004 HH_{63}	17.1	X	91.68196	65.92485	127.89316	24.31617	0.0707698	0.38171055	1.8821170	20	8 14.2	18.9
232747 2004 JK_{11}	15.1	X	207.47876	199.79034	92.32092	10.38071	0.1246174	0.16783547	3.2549692	20	1 17.3	20.3
232748 2004 JX_{19}	17.0	X	155.97279	326.47604	281.14539	5.72961	0.2134898	0.27545491	2.3393886	20	12 20.9	20.7
232749 2004 JY_{20}	15.9	X	323.10409	40.20259	152.98966	1.39627	0.1153028	0.17565018	3.1576960	20	1 21.9	20.2
232750 2004 JU_{37}	16.8	X	231.13685	190.83564	104.47722	8.39836	0.1854233	0.29279967	2.2460651	20	1 26.8	20.3
232751 2004 KJ	15.3	X	224.35617	254.37111	39.46660	14.07744	0.1617983	0.17111414	3.2132569	20	2 6.3	20.8
232752 2004 KF_{8}	16.1	X	250.53040	69.05061	243.05552	14.87852	0.2278940	0.23486478	2.6017014	20	2 28.3	20.8
232753 2004 LE_{16}	16.0	X	73.49838	73.67579	253.05234	6.42917	0.2272712	0.26285607	2.4135559	20	—	—
232754 2004 NN_{2}	16.9	X	130.58432	185.20609	161.31015	5.95197	0.2088124	0.27546706	2.3393198	20	—	—
232755 2004 NM_{3}	17.7	X	345.21499	249.66492	355.96982	1.14121	0.1636648	0.30201628	2.2001341	20	4 16.1	19.2
232756 2004 NS_{6}	16.1	X	134.39207	358.82044	342.02733	10.09199	0.2187373	0.27343042	2.3509217	20	—	—
232757 2004 NJ_{7}	16.9	X	284.65759	31.45820	237.57643	4.31479	0.3069393	0.29201568	2.2500833	20	1 29.8	20.6
232758 2004 OS_{11}	16.2	X	304.17452	38.51953	276.07951	13.85079	0.1739906	0.23966523	2.5668433	20	5 15.3	19.4
232759 2004 PM_{3}	17.0	X	234.93974	301.61242	331.88215	6.54679	0.2124466	0.28512220	2.2862060	20	1 3.8	20.8
232760 2004 PY_{8}	16.6	X	100.75344	165.63397	146.52283	5.69632	0.2067952	0.26490170	2.4011146	20	—	—
232761 2004 PQ_{23}	17.3	X	194.20551	302.79827	10.49458	1.20168	0.2322256	0.28258101	2.2998918	20	1 19.5	21.2
232762 2004 PV_{24}	17.2	X	205.11908	278.61568	1.35984	1.80393	0.1233379	0.27930982	2.3178140	20	—	—
232763 Eliewiesel	16.5	X	201.33459	335.98355	335.83653	5.64584	0.1922579	0.28019951	2.3129050	20	1 23.3	20.1
232764 2004 PN_{28}	17.1	X	23.12435	30.80072	323.27245	12.59705	0.1799380	0.25677937	2.4514853	20	12 23.4	20.4
232765 2004 PT_{31}	16.3	X	55.23016	14.71671	339.76083	6.34344	0.1273629	0.26288034	2.4134074	20	—	—
232766 2004 PR_{35}	16.8	X	247.71071	160.18972	115.13921	3.75314	0.1531287	0.28535812	2.2849457	20	1 18.5	20.2
232767 2004 PQ_{39}	16.2	X	64.16095	12.31107	303.30142	5.08366	0.0625462	0.25752530	2.4467492	20	12 6.6	19.6
232768 2004 PY_{40}	16.4	X	225.11573	313.16501	5.40968	6.32017	0.2614121	0.28576122	2.2827965	20	2 19.4	20.4
232769 2004 PJ_{51}	16.7	X	308.11305	269.52472	82.45056	3.80690	0.2380778	0.24314330	2.5423061	20	7 8.8	19.2
232770 2004 PD_{53}	17.3	X	146.24749	334.66979	308.32904	2.02948	0.1579813	0.26988781	2.3714494	20	—	—
232771 2004 PV_{56}	16.7	X	208.42098	72.44986	307.98137	15.81600	0.2853687	0.22953054	2.6418556	20	4 13.8	21.8
232772 2004 PG_{61}	15.7	X	163.91100	317.83290	4.97102	11.44145	0.2888389	0.27602187	2.3361840	20	1 13.3	19.8
232773 2004 PC_{72}	17.1	X	120.01340	198.43461	115.63111	2.40680	0.1931898	0.26951280	2.3736488	20	—	—
232774 2004 PF_{73}	16.2	X	21.91847	57.68066	335.78477	7.03706	0.1432357	0.26293361	2.4130814	20	—	—
232775 2004 PA_{75}	17.1	X	177.35876	284.84134	344.09283	4.91933	0.2058685	0.27385267	2.3485045	20	—	—
232776 2004 PU_{75}	17.3	X	119.69592	149.13661	196.59710	4.17121	0.2410891	0.27185929	2.3599706	20	—	—
232777 2004 PN_{76}	16.5	X	29.59129	39.80050	322.90846	5.52514	0.1289143	0.26106603	2.4245760	20	—	—
232778 2004 PH_{80}	16.2	X	269.08043	61.61841	330.55071	27.06687	0.2410055	0.23946821	2.5682510	20	7 12.4	20.2
232779 2004 PM_{85}	17.1	X	142.84144	268.59529	71.92742	3.08883	0.2364836	0.27317564	2.3523832	20	1 9.6	20.5
232780 2004 PD_{98}	16.5	X	166.10244	328.16192	16.18591	8.37180	0.2455872	0.21882304	2.7273488	20	2 12.7	21.2
232781 2004 PX_{108}	17.0	X	148.43472	337.75531	316.27120	2.41849	0.2101530	0.27080787	2.3660751	20	—	—
232782 2004 PT_{111}	16.4	X	197.27584	223.52107	172.27057	4.68681	0.3352737	0.22586543	2.6703583	20	5 2.9	21.4
232783 2004 QF_{3}	16.5	X	205.21597	256.05937	94.76397	6.10656	0.2509182	0.22573224	2.6714086	20	3 19.3	21.3
232784 2004 QT_{6}	16.9	X	146.63203	33.93161	264.44753	1.76037	0.1728594	0.26965853	2.3727935	20	—	—
232785 2004 QB_{10}	16.1	X	270.09603	34.82405	0.76659	15.23371	0.1320571	0.24232105	2.5480540	20	8 2.7	19.6
232786 2004 QT_{13}	15.4	X	219.45472	356.44165	290.09290	24.42813	0.1605541	0.27918417	2.3185094	20	1 7.6	19.0
232787 2004 RM_{15}	17.5	X	120.54062	129.84208	192.21552	0.95829	0.1947889	0.26950857	2.3736736	20	—	—
232788 2004 RF_{19}	15.9	X	100.86940	258.80928	120.83771	5.31063	0.0888251	0.21135946	2.7911826	20	—	—
232789 2004 RN_{32}	17.0	X	267.61568	262.18715	135.30091	5.43937	0.2621206	0.24049976	2.5609019	20	7 5.8	20.6
232790 2004 RO_{69}	16.6	X	202.47508	89.86162	156.51368	7.86964	0.1001861	0.27015381	2.3698925	20	—	—
232791 2004 RG_{75}	16.6	X	153.70567	247.40990	169.64142	12.41689	0.3133540	0.22045971	2.7138337	20	5 1.3	21.7
232792 2004 RX_{78}	17.0	X	118.37592	327.26780	348.99684	3.65078	0.2561065	0.26647566	2.3916503	20	—	—
232793 2004 RN_{95}	17.0	X	246.59602	113.25295	190.81792	7.33175	0.1354457	0.28914862	2.2649327	20	2 21.5	20.3
232794 2004 RW_{100}	16.3	X	167.72871	77.16957	304.82854	3.25358	0.1149777	0.22176596	2.7031665	20	3 18.2	20.5
232795 2004 RY_{101}	16.6	X	142.52800	315.80213	335.01753	5.52296	0.1140508	0.26649735	2.3915206	20	—	—
232796 2004 RB_{112}	16.0	X	343.00034	297.60068	346.05453	11.71510	0.2681089	0.24408645	2.5357529	20	6 4.6	18.1
232797 2004 RY_{180}	16.5	X	248.37486	78.92764	322.53394	12.51818	0.1535337	0.23665297	2.5885789	20	7 5.4	20.3
232798 2004 RT_{191}	16.6	X	251.29248	45.11113	315.45985	5.87809	0.1883735	0.23104872	2.6302700	20	5 7.4	20.7
232799 2004 RS_{193}	16.9	X	72.83874	157.89235	206.23021	4.42789	0.2408695	0.26373255	2.4082056	20	—	—
232800 2004 RH_{196}	16.7	X	100.48726	343.47399	308.62242	7.74065	0.1267361	0.25811049	2.4430496	20	12 23.5	20.5

ELEMENTS AND OPPOSITION DATES IN 2020

ECLIPTIC AND EQUINOX 2000.0, EPOCH 2020 MAY 31.0 TT

Planet		H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
		m		°	°	°	°		°				
232801	2004 RY_{198}	15.9	X	358.97717	343.35828	326.27385	10.10409	0.1402950	0.24065271	2.5598168	20	8 29.4	18.3
232802	2004 RV_{199}	15.8	X	163.19663	107.51452	286.61794	8.19206	0.2388646	0.21718327	2.7410596	20	4 1.1	20.6
232803	2004 RX_{216}	16.5	X	201.17140	99.98813	279.95983	7.63776	0.2262618	0.22508812	2.6765026	20	4 13.8	21.2
232804	2004 RA_{220}	16.6	X	195.05238	104.74224	288.22865	11.51016	0.2764075	0.22431971	2.6826113	20	4 23.2	21.6
232805	2004 RF_{220}	15.8	X	206.89935	115.51536	276.39819	14.88930	0.1677111	0.22531136	2.6747344	20	5 4.9	20.4
232806	2004 RM_{231}	17.0	X	142.16124	274.01680	193.34071	7.63384	0.2508707	0.22387683	2.6861481	20	6 17.1	21.7
232807	2004 RO_{231}	16.6	X	189.76841	187.69649	13.41026	6.01499	0.0903009	0.25363155	2.4717272	20	11 30.4	20.1
232808	2004 RN_{249}	16.6	X	237.16441	240.37167	207.28511	6.56679	0.1510744	0.24320891	2.5418489	20	8 19.4	20.2
232809	2004 RD_{257}	16.2	X	129.65054	100.87916	329.83426	8.37649	0.1234455	0.22346175	2.6894734	20	4 6.5	20.3
232810	2004 RM_{270}	16.8	X	254.55640	3.34013	174.05776	5.83494	0.1738759	0.26549409	2.3975415	20	—	—
232811	2004 RY_{273}	17.0	X	269.74971	43.73503	120.02835	3.09686	0.1428769	0.26509078	2.3999727	20	—	—
232812	2004 RG_{298}	17.3	X	0.08522	90.70616	14.40570	2.42739	0.0016505	0.26985609	2.3716353	20	—	—
232813	2004 RP_{305}	17.0	X	261.21949	252.66066	132.48263	5.35956	0.1881215	0.23695993	2.5863429	20	6 22.2	20.6
232814	2004 RZ_{310}	16.8	X	282.50072	7.32647	13.31080	3.41305	0.1536230	0.23796226	2.5790751	20	7 21.6	19.8
232815	2004 RH_{312}	16.2	X	123.06774	359.04335	44.50654	5.19516	0.1588367	0.21692357	2.7432469	20	3 7.1	20.2
232816	2004 RW_{313}	16.3	X	97.76884	100.67263	354.26955	5.08988	0.0257457	0.22160502	2.7044751	20	3 19.9	20.0
232817	2004 RA_{322}	16.3	X	214.42287	234.93875	200.72596	8.28814	0.1610033	0.23430551	2.6058398	20	7 9.2	20.6
232818	2004 RP_{325}	16.3	X	265.09082	73.06847	348.40319	11.63434	0.1702194	0.23924396	2.5698557	20	8 21.7	19.5
232819	2004 RF_{326}	15.9	X	261.00783	99.05910	291.34209	7.72337	0.1602237	0.23447556	2.6045798	20	7 3.2	19.4
232820	2004 RG_{336}	17.3	X	140.75952	58.08041	228.99571	4.03872	0.2140110	0.26435835	2.4044036	20	—	—
232821	2004 RY_{340}	15.6	X	206.22265	227.91002	104.33669	16.23054	0.2078567	0.22045255	2.7138924	20	2 29.9	20.4
232822	2004 RU_{345}	17.4	X	224.81862	160.38246	140.88182	5.97988	0.2236653	0.28325397	2.2962476	20	1 28.1	21.3
232823	2004 ST_{22}	16.6	X	165.23346	63.27664	7.94592	12.67586	0.2570975	0.22316381	2.6918666	20	5 18.1	21.6
232824	2004 SQ_{25}	16.8	X	240.91805	212.88329	216.55694	3.54283	0.2308672	0.23583554	2.5945570	20	7 21.6	20.7
232825	2004 SE_{40}	16.3	X	154.31287	253.73223	197.07084	12.52573	0.2246899	0.22461677	2.6802456	20	6 5.9	21.0
232826	2004 SD_{50}	15.8	X	216.15022	308.62850	20.86082	5.46452	0.0657251	0.22032843	2.7149116	20	3 6.6	19.7
232827	2004 SX_{51}	15.9	X	163.36133	309.35228	73.45492	7.66552	0.2698497	0.21616432	2.7496666	20	3 28.2	20.8
232828	2004 SR_{60}	15.7	X	27.74723	170.86910	225.96085	14.17022	0.0963636	0.19603918	2.9347704	20	—	—
232829	2004 SS_{60}	16.0	X	121.77246	77.65872	296.04067	7.89783	0.1494121	0.20650242	2.8347795	20	1 26.4	20.0
232830	2004 TG	17.3	X	165.27295	280.09522	33.08415	3.04140	0.1887178	0.27363474	2.3497513	20	—	—
232831	2004 TY_{2}	16.7	X	233.08098	218.11664	13.71066	4.34048	0.1114781	0.26785211	2.3834498	20	—	—
232832	2004 TC_{7}	16.0	X	194.41622	289.41196	155.55102	15.11702	0.3424370	0.22961123	2.6412366	20	6 27.6	21.2
232833	2004 TA_{21}	17.3	X	295.81235	358.36881	1.01633	1.96132	0.0958359	0.23660078	2.5889596	20	7 20.9	20.2
232834	2004 TC_{29}	17.2	X	209.17139	93.36951	156.84134	1.53314	0.1500330	0.26958769	2.3732091	20	—	—
232835	2004 TQ_{30}	17.8	X	229.23676	290.32192	118.10041	1.95589	0.1858127	0.23318652	2.6141695	20	6 18.1	21.9
232836	2004 TF_{47}	16.9	X	184.35344	210.82197	221.83219	1.10797	0.0556186	0.22789829	2.6544548	20	6 9.1	20.8
232837	2004 TZ_{50}	16.2	X	206.70842	202.43829	238.28030	4.11203	0.1350704	0.23094176	2.6310821	20	7 10.3	20.2
232838	2004 TE_{52}	16.7	X	20.95922	33.32041	288.25246	0.66816	0.0896196	0.24450483	2.5328594	20	10 18.9	19.5
232839	2004 TV_{61}	16.5	X	223.47391	19.91083	30.62939	8.25509	0.1807869	0.23310707	2.6147635	20	6 14.8	20.7
232840	2004 TE_{65}	16.8	X	282.00322	254.30743	129.03622	4.26993	0.2008488	0.23866764	2.5739910	20	7 15.5	19.9
232841	2004 TL_{66}	16.6	X	279.82798	228.69279	119.17734	5.88392	0.2057247	0.23402824	2.6078976	20	5 24.8	20.1
232842	2004 TB_{70}	16.4	X	123.85930	272.91663	55.83310	6.33491	0.2461790	0.26729007	2.3867898	20	—	—
232843	2004 TK_{76}	16.3	X	112.27531	38.79279	9.17087	6.35134	0.1006692	0.21402786	2.7679347	20	2 21.5	20.1
232844	2004 TT_{80}	17.0	X	218.64066	144.52429	270.04822	1.91021	0.1398017	0.23247679	2.6194874	20	6 19.1	21.1
232845	2004 TH_{135}	16.5	X	152.13750	200.82596	139.03954	5.39216	0.2031504	0.21120734	2.7925227	20	1 21.5	21.1
232846	2004 TS_{137}	16.4	X	289.72496	310.56034	115.63442	2.34630	0.1388450	0.24508398	2.5288676	20	10 11.6	19.0
232847	2004 TO_{142}	16.9	X	215.88794	225.83832	356.13182	2.12669	0.1799214	0.26312227	2.4119278	20	—	—
232848	2004 TD_{157}	17.3	X	231.51118	180.33439	54.66113	1.92717	0.1441754	0.26884627	2.3775703	20	—	—
232849	2004 TK_{161}	15.6	X	31.70933	138.84980	215.25350	5.09286	0.1372924	0.18901500	3.0070353	20	12 9.8	19.6
232850	2004 TP_{161}	16.4	X	227.46468	225.97317	214.23659	4.41954	0.0627847	0.23575907	2.5951180	20	8 9.0	19.9
232851	2004 TP_{165}	16.6	X	239.33230	334.32885	221.06689	3.92742	0.1732441	0.26379784	2.4078082	20	—	—
232852	2004 TV_{167}	16.8	X	210.68230	263.52435	352.76702	2.04293	0.1607391	0.27207720	2.3587104	20	—	—
232853	2004 TQ_{170}	15.7	X	193.08094	305.42203	62.22496	9.51868	0.2820361	0.22105197	2.7089841	20	3 31.7	20.7
232854	2004 TZ_{180}	17.5	X	302.01530	86.78848	166.34441	2.79956	0.1507220	0.28744133	2.2738924	20	2 17.5	20.3
232855	2004 TL_{201}	16.5	X	211.31635	162.09680	254.98519	4.54499	0.1074156	0.22782408	2.6550312	20	6 16.9	20.5
232856	2004 TD_{208}	17.1	X	175.20730	355.30754	141.90671	2.10853	0.0494449	0.23508668	2.6000639	20	8 24.1	20.7
232857	2004 TQ_{217}	16.6	X	150.50195	352.05293	7.11887	4.04385	0.0879599	0.21323679	2.7747762	20	2 2.9	20.6
232858	2004 TC_{223}	15.9	X	191.90304	247.53008	131.04389	13.98820	0.2302742	0.22050799	2.7134376	20	4 13.9	20.8
232859	2004 TO_{243}	16.7	X	203.27800	224.71983	228.72102	2.21638	0.1790165	0.23195541	2.6234113	20	7 20.7	20.8
232860	2004 TW_{263}	16.5	X	281.94369	156.69455	239.74864	4.34715	0.0896367	0.23878658	2.5731362	20	8 19.6	19.6
232861	2004 TE_{273}	16.2	X	243.14057	151.29709	258.76829	2.89132	0.1307516	0.23268908	2.6178940	20	7 11.1	19.8
232862	2004 TV_{274}	17.2	X	119.28849	213.42308	243.42277	3.25932	0.2549331	0.21636992	2.7479245	20	5 15.9	21.6
232863	2004 TC_{281}	16.9	X	122.33730	48.11883	99.01558	3.07810	0.0144758	0.22855095	2.6493989	20	6 28.9	20.5
232864	2004 TQ_{283}	17.2	X	128.14692	75.02306	200.96748	0.05738	0.1986888	0.26144508	2.4222320	20	12 30.2	21.1
232865	2004 TG_{295}	16.3	X	189.31444	225.83224	250.64603	4.42767	0.0735551	0.23349035	2.6119013	20	8 10.1	20.1
232866	2004 TZ_{295}	16.7	X	161.78526	201.66557	227.56762	4.21485	0.1486183	0.22108292	2.7087313	20	5 13.2	20.9
232867	2004 TA_{344}	16.7	X	213.87856	43.63650	44.07873	3.93904	0.1296982	0.23596494	2.5936083	20	7 29.7	20.7
232868	2004 TS_{354}	16.4	X	253.40474	329.54879	64.38596	4.54358	0.0584374	0.23094543	2.6310542	20	7 13.4	19.9
232869	2004 TN_{359}	17.1	X	306.72632	198.88530	215.71539	2.58522	0.1467420	0.24806537	2.5085646	20	10 25.2	19.5
232870	2004 UQ_{3}	16.4	X	113.81310	15.48463	240.57015	24.40195	0.0459865	0.37041007	1.9202047	20	12 12.5	18.6
232871	2004 VM_{6}	16.3	X	220.00194	296.40518	134.88227	2.18897	0.1205115	0.23132583	2.6281690	20	7 13.9	20.1
232872	2004 VN_{22}	16.8	X	250.49710	75.43073	287.69603	1.22667	0.2425973	0.22935641	2.6431925	20	5 6.2	21.0
232873	2004 VY_{23}	16.2	X	193.54362	270.74448	141.79735	13.16978	0.2173839	0.22481766	2.6786488	20	5 24.3	21.0
232874	2004 VP_{28}	16.4	X	244.87078	77.45617	36.73317	5.52494	0.2631943	0.23973537	2.5663427	20	9 21.6	20.0
232875	2004 VO_{29}	16.3	X	259.26727	335.07978	60.76126	5.94321	0.0864476	0.23346803	2.6120677	20	7 20.4	19.8
232876	2004 VC_{37}	17.0	X	255.51376	118.84596	233.32983	1.03682	0.0930695	0.22642723	2.6659394	20	5 14.9	20.7
232877	2004 VJ_{38}	16.1	X	137.98604	119.83061	52.70209	19.10004	0.1787753	0.23220467	2.6215335	20	9 11.3	20.8
232878	2004 VW_{40}	15.5	X	295.58645	294.23841	53.41586	22.27676	0.0654329	0.23172931	2.6251174	20	7 7.2	19.2
232879	2004 VX_{56}	16.0	X	187.64789	23.80606	355.15908	5.85504	0.1625058	0.21946752	2.7220068	20	4 4.1	20.4
232880	2004 VO_{58}	15.5	X	61.17493	120.55491	260.65864	9.49373	0.0531667	0.19645656	2.9306123	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
232881 2004 VO_{59}	16.3	X	250.78814	105.71967	291.03669	2.83575	0.1090617	0.23111259	2.6297854	20	7 5.9	19.9
232882 2004 VR_{76}	15.8	X	91.02949	347.50281	84.42934	5.17599	0.0868071	0.20991106	2.8040075	20	2 23.4	19.5
232883 2004 VT_{77}	16.3	X	244.28834	315.48001	115.15238	5.50388	0.1307377	0.23499083	2.6007709	20	8 10.5	19.8
232884 2004 VU_{86}	16.0	X	193.51630	230.50893	287.05240	5.85901	0.1060564	0.24125150	2.5555793	20	10 4.4	19.9
232885 2004 XT_{3}	16.0	X	207.35486	172.63583	269.15893	3.64431	0.0894194	0.22921405	2.6442868	20	7 15.9	19.9
232886 2004 XD_{8}	16.1	X	71.49939	359.15042	142.42581	3.83166	0.1564266	0.21398236	2.7683271	20	5 6.9	19.6
232887 2004 XE_{9}	15.8	X	245.12493	97.75759	289.57690	5.36781	0.1005946	0.22743236	2.6580789	20	6 17.2	19.6
232888 2004 XG_{17}	15.7	X	221.98143	297.62940	86.64496	6.20263	0.0860698	0.21992471	2.7182331	20	5 19.6	19.8
232889 2004 XQ_{18}	14.9	X	205.97513	78.13792	78.30496	8.40490	0.1551555	0.17600937	3.1533985	20	10 10.4	19.9
232890 2004 XC_{23}	15.7	X	29.70262	283.16520	108.10431	4.40508	0.2827536	0.19191781	2.9766370	20	—	—
232891 2004 XH_{25}	16.0	X	195.26582	251.29476	295.60931	7.89908	0.1047386	0.23888370	2.5724387	20	11 13.3	19.9
232892 2004 XR_{29}	16.4	X	331.92554	295.85963	68.30519	5.03973	0.2473586	0.24222971	2.5486945	20	10 2.9	18.1
232893 2004 XB_{31}	15.0	X	268.44675	299.33904	251.29673	16.32694	0.1519389	0.19203239	2.9754527	20	—	—
232894 2004 XJ_{32}	16.3	X	277.11244	146.05031	212.74220	1.89623	0.1997777	0.23035565	2.6355432	20	6 4.7	19.8
232895 2004 XV_{35}	15.6	X	18.87913	343.26175	73.73003	9.50177	0.1196510	0.19177993	2.9780635	20	—	—
232896 2004 XC_{36}	16.6	X	112.99902	233.14502	275.61877	5.03508	0.2359221	0.21884897	2.7271334	20	7 12.3	20.9
232897 2004 XT_{39}	16.6	X	232.06459	285.41780	121.67179	1.40492	0.1212450	0.22817996	2.6522699	20	6 25.5	20.5
232898 2004 XM_{41}	15.2	X	338.40637	277.81776	100.97266	20.67894	0.1017602	0.17396195	3.1780925	20	10 25.7	19.6
232899 2004 XG_{49}	16.1	X	173.22585	277.74815	143.76255	2.74082	0.2818270	0.21927103	2.7236328	20	5 17.2	21.0
232900 2004 XG_{51}	16.3	X	135.92480	137.44361	284.43425	5.40279	0.1890186	0.21039990	2.7996626	20	4 10.0	20.9
232901 2004 XX_{81}	15.4	X	270.22078	38.50923	114.65681	15.41110	0.2430305	0.17926416	3.1151125	20	12 4.7	19.6
232902 2004 XX_{84}	16.2	X	125.40683	0.78112	102.66722	9.33946	0.1874276	0.21297015	2.7770917	20	5 25.7	20.6
232903 2004 XO_{87}	16.8	X	243.18108	326.15518	92.55938	1.98102	0.1461010	0.23273068	2.6175820	20	7 21.3	20.3
232904 2004 XL_{92}	14.8	X	340.81540	301.33997	72.57191	24.41119	0.1855825	0.17917968	3.1160916	20	10 27.7	18.6
232905 2004 XS_{101}	15.6	X	95.00044	98.38643	105.74540	13.86671	0.2146060	0.22220712	2.6995875	20	9 6.6	20.0
232906 2004 XG_{121}	16.0	X	51.31373	233.72371	273.30436	5.59834	0.2439622	0.20541060	2.8448158	20	4 22.7	19.1
232907 2004 XQ_{129}	15.7	X	66.01840	116.33723	276.04951	9.91693	0.1052002	0.19523787	2.9427950	20	—	—
232908 2004 XE_{136}	16.6	X	180.83462	80.27244	314.44025	4.41462	0.2111220	0.21822834	2.7323014	20	4 17.0	21.3
232909 2004 XM_{136}	15.7	X	146.88215	289.48565	272.07567	27.78024	0.3361635	0.23161114	2.6260103	20	10 2.1	21.3
232910 2004 XH_{137}	16.2	X	152.02920	168.76149	317.82569	7.69018	0.0692918	0.22296843	2.6934389	20	7 13.6	20.1
232911 2004 XK_{147}	15.6	X	102.90663	164.73815	309.05810	8.60338	0.1109893	0.21501076	2.7594927	20	4 29.6	19.7
232912 2004 YR_{3}	16.5	X	144.08599	19.45206	72.74727	0.58590	0.0310609	0.21394900	2.7686149	20	5 15.9	20.3
232913 2004 YJ_{4}	14.7	X	284.63922	213.79226	328.61281	16.51772	0.2216212	0.18027166	3.1034951	20	—	—
232914 2004 YG_{15}	15.9	X	186.71886	304.26484	94.16389	5.67044	0.0782616	0.21314793	2.7755473	20	4 30.5	20.1
232915 2004 YN_{23}	16.4	X	59.60779	12.36691	112.01350	2.28226	0.0420986	0.20241557	2.8728091	20	3 12.6	20.1
232916 2004 YV_{25}	15.7	X	329.14018	289.84379	107.34338	10.16628	0.0722987	0.17422069	3.1749452	20	10 28.9	20.0
232917 2004 YF_{32}	15.5	X	316.39619	100.95604	357.77836	15.16780	0.3433837	0.18161533	3.0881689	20	12 11.1	18.1
232918 2005 AN_{7}	15.1	X	182.07395	97.45848	105.54692	12.93697	0.1374542	0.17207299	3.2013089	20	11 12.6	20.4
232919 2005 AQ_{10}	15.6	X	112.16253	115.62601	87.93966	13.73387	0.1312965	0.22537224	2.6742526	20	9 18.2	20.0
232920 2005 AQ_{16}	15.8	X	310.18701	16.65218	115.94816	6.29389	0.1527637	0.18641262	3.0349567	20	—	—
232921 2005 AH_{21}	15.8	X	124.98123	292.15521	103.36098	11.32687	0.1134076	0.20119846	2.8843832	20	2 25.6	20.1
232922 2005 AP_{26}	16.0	X	218.74556	102.62574	230.16402	4.07761	0.2584504	0.27396616	2.3478559	20	2 28.9	20.2
232923 Adalovelace	16.7	X	174.18424	64.08692	11.50336	1.09964	0.0583361	0.21604293	2.7506965	20	5 31.7	20.5
232924 2005 AB_{30}	15.8	X	299.18295	0.29813	71.00313	13.69594	0.1777226	0.23863845	2.5742009	20	11 3.1	18.4
232925 2005 AL_{30}	15.4	X	322.04154	157.53893	14.54787	15.81791	0.1091893	0.19065837	2.9897311	20	—	—
232926 2005 AN_{34}	15.7	X	218.65816	242.23413	290.46025	5.17856	0.1010556	0.17517654	3.1633853	20	11 10.9	20.4
232927 2005 AO_{36}	15.5	X	8.45353	280.40623	306.08980	16.23902	0.0918803	0.21108391	2.7936112	20	5 6.6	19.2
232928 2005 AO_{41}	16.2	X	217.90857	295.11487	113.61937	3.85137	0.0910134	0.22077300	2.7112657	20	6 14.6	20.2
232929 2005 AB_{49}	16.5	X	165.81136	300.34549	107.05272	3.16383	0.0772577	0.21168450	2.7883247	20	4 18.5	20.7
232930 2005 AM_{49}	15.2	X	307.99626	304.56954	137.05143	17.65846	0.0988867	0.17828637	3.1264917	20	11 22.9	19.5
232931 2005 AF_{51}	15.3	X	181.45175	48.52625	135.72178	10.96107	0.0240162	0.17245795	3.1965432	20	10 27.0	20.1
232932 2005 AY_{51}	16.0	X	233.18578	48.77517	106.52358	11.60522	0.1489505	0.17393393	3.1784338	20	11 6.1	20.9
232933 2005 AM_{72}	16.3	X	153.36648	297.46170	105.86146	3.07402	0.0824554	0.20649450	2.8348520	20	3 31.5	20.6
232934 2005 AM_{81}	15.1	X	255.41373	128.23617	23.92428	14.65007	0.1073882	0.17870070	3.1216572	20	11 26.8	19.7
232935 2005 AX_{82}	16.1	X	125.70238	92.00598	319.88284	13.95528	0.1469373	0.20461117	2.8522209	20	3 12.1	20.5
232936 2005 BX_{2}	15.1	X	343.30179	311.60543	132.31734	9.67320	0.0819627	0.17494274	3.1662031	20	—	—
232937 2005 BM_{13}	15.6	X	273.84604	180.84607	302.87113	4.17133	0.1031754	0.17624957	3.1505328	20	11 18.6	19.7
232938 2005 BL_{28}	15.3	X	257.71258	217.69255	291.67143	8.46006	0.0819388	0.17690955	3.1426924	20	12 2.3	19.7
232939 2005 BB_{31}	16.4	X	33.93752	107.28557	116.07842	2.97421	0.0969522	0.21437630	2.7649346	20	6 20.5	19.5
232940 2005 BD_{36}	16.4	X	206.25750	253.98120	134.91207	4.25899	0.1035251	0.21464355	2.7626391	20	5 8.0	20.7
232941 2005 CD_{11}	15.9	X	196.71461	198.88675	131.83050	12.90899	0.0555590	0.19648940	2.9302857	20	2 17.9	20.3
232942 2005 CV_{18}	16.5	X	68.34629	297.03241	137.53802	11.31143	0.1051792	0.19601521	2.9350097	20	1 28.3	20.2
232943 2005 CD_{31}	16.2	X	104.39733	327.03790	77.38186	2.91327	0.1011082	0.19556733	2.9394890	20	2 8.9	20.3
232944 2005 CL_{34}	15.0	X	13.99527	299.64062	342.03801	7.75032	0.1127900	0.15470108	3.4366910	20	8 5.7	19.3
232945 2005 CD_{45}	16.2	X	255.35113	226.41620	102.20187	3.34844	0.0436570	0.20666993	2.8332475	20	4 22.7	20.1
232946 2005 CQ_{51}	15.5	X	328.31227	159.76353	334.68416	11.82659	0.1046419	0.18542396	3.0457352	20	—	—
232947 2005 EP_{5}	15.6	X	321.48510	4.25789	132.89931	3.68040	0.1255519	0.18170906	3.0871068	20	—	—
232948 2005 EX_{6}	15.4	X	266.85388	207.28166	354.06519	10.01064	0.0384904	0.18210300	3.0826531	20	—	—
232949 Muhina	16.1	X	245.21968	200.57926	31.12460	1.57233	0.1917528	0.18198924	3.0839375	20	—	—
232950 2005 EU_{9}	15.8	X	285.38049	167.75752	334.26981	4.15310	0.0903744	0.17641910	3.1485141	20	12 29.9	19.8
232951 2005 EF_{10}	15.2	X	284.67316	157.91764	343.79059	17.35529	0.1733414	0.17686482	3.1432222	20	12 19.2	19.4
232952 2005 EC_{17}	15.6	X	88.65272	334.62412	4.45856	2.07177	0.0798913	0.17454648	3.1709932	20	—	—
232953 2005 EO_{18}	15.9	X	201.89506	213.82244	37.12793	1.27663	0.1344691	0.17624316	3.1506092	20	—	—
232954 2005 EM_{19}	16.3	X	337.57360	325.49462	147.52239	1.38601	0.1395360	0.18113577	3.0936171	20	—	—
232955 2005 ER_{19}	15.4	X	292.60643	43.36533	227.71185	1.19498	0.0994461	0.19761528	2.9191452	20	3 17.6	19.4
232956 2005 ED_{21}	15.1	X	162.35761	139.40705	149.32176	11.35519	0.0139580	0.18033769	3.1027376	20	—	—
232957 2005 EU_{24}	15.9	X	75.44336	219.79015	22.34705	8.45448	0.2239496	0.21669445	2.7451802	20	10 1.5	20.0
232958 2005 EG_{25}	15.2	X	33.49514	300.02338	151.53009	11.58937	0.0289210	0.18624245	3.0368052	20	—	—
232959 2005 EJ_{27}	16.2	X	143.31659	331.06595	167.71529	17.45422	0.1872604	0.21550954	2.7552334	20	7 22.2	21.0
232960 2005 ES_{35}	14.9	X	308.10889	150.38905	343.63507	16.01743	0.0808871	0.17808197	3.1288836	20	—	—

ELEMENTS AND OPPOSITION DATES IN 2020

ECLIPTIC AND EQUINOX 2000.0, EPOCH 2020 MAY 31.0 TT

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
232961 2005 EZ_{36}	15.2	X	317.94932	157.45420	19.89593	8.79080	0.1246900	0.18496585	3.0507622	20	—	—
232962 2005 ES_{38}	17.0	X	25.09980	273.48404	141.57804	23.87544	0.1074839	0.37262314	1.9125942	20	—	—
232963 2005 EV_{48}	15.1	X	294.36364	236.71820	341.61766	11.88002	0.1255366	0.19018891	2.9946489	20	1 15.9	19.5
232964 2005 EA_{50}	15.5	X	4.08734	24.24091	83.49941	3.59244	0.0680964	0.18443985	3.0565596	20	—	—
232965 2005 EF_{66}	15.7	X	92.36145	106.42416	106.33263	15.97334	0.1018819	0.21634109	2.7481686	20	9 1.7	19.9
232966 2005 EG_{67}	15.2	X	281.27790	176.58151	358.22188	6.55729	0.0853721	0.18012028	3.1052338	20	—	—
232967 2005 EY_{70}	16.5	X	270.76499	300.24910	357.79823	5.61349	0.0543012	0.20057233	2.8903828	20	3 30.4	20.6
232968 2005 EG_{76}	17.2	X	235.97676	259.41320	305.71567	0.85956	0.0350525	0.24204443	2.5499950	20	—	—
232969 2005 EX_{83}	15.4	X	317.24473	131.54768	324.21403	16.15666	0.2075465	0.17784381	3.1316764	20	12 16.8	19.0
232970 2005 EB_{84}	15.4	X	267.21336	16.78094	187.52155	10.46641	0.0392511	0.18270684	3.0758572	20	—	—
232971 2005 ET_{86}	14.6	X	222.49206	85.79899	143.48239	25.08338	0.2640628	0.17456771	3.1707362	20	—	—
232972 2005 EZ_{91}	16.1	X	111.88755	46.59499	146.88297	8.13734	0.0684756	0.21595354	2.7514556	20	8 21.9	19.9
232973 2005 EK_{92}	15.8	X	325.00496	207.26732	328.21629	3.07623	0.1653264	0.18705217	3.0280350	20	—	—
232974 2005 EC_{99}	15.5	X	253.93374	250.48612	327.20913	9.18463	0.0521388	0.18387250	3.0628438	20	—	—
232975 2005 ER_{101}	15.1	X	212.26176	98.29603	130.47254	10.17403	0.0441937	0.17497424	3.1658231	20	—	—
232976 2005 ET_{102}	16.0	X	114.46791	300.86358	132.22609	7.27759	0.0512075	0.20316955	2.8656972	20	3 21.4	20.1
232977 2005 EF_{104}	15.3	X	52.54588	224.79808	166.13401	11.85285	0.2410860	0.18278713	3.0749565	20	—	—
232978 2005 EF_{118}	15.3	X	269.22119	306.24235	265.40436	10.41815	0.1991833	0.18307872	3.0716906	20	—	—
232979 2005 EG_{124}	16.2	X	336.19043	58.05804	135.27375	3.59930	0.1193227	0.19116715	2.9844241	20	2 6.4	19.9
232980 2005 EO_{124}	15.3	X	325.84061	317.68844	184.27140	11.31216	0.2055924	0.18336246	3.0685210	20	—	—
232981 2005 EP_{126}	15.1	X	273.13983	218.76079	13.45408	7.89331	0.2079696	0.18300341	3.0725333	20	—	—
232982 2005 ER_{131}	15.5	X	352.25981	147.81235	359.13304	9.83677	0.0290516	0.19157790	2.9801568	20	1 13.6	19.7
232983 2005 EM_{132}	16.3	X	327.81645	335.06050	218.63938	3.34929	0.2037256	0.19152274	2.9807290	20	1 12.9	20.0
232984 2005 ET_{132}	16.0	X	50.65294	330.50521	323.77700	9.95984	0.1940730	0.22098883	2.7095001	20	10 30.4	19.9
232985 2005 ES_{134}	15.8	X	218.09385	347.26052	257.03097	1.58985	0.0662950	0.18162909	3.0880130	20	—	—
232986 2005 EF_{136}	15.2	X	306.35939	164.56046	357.77001	17.73283	0.0692671	0.18156639	3.0887238	20	—	—
232987 2005 EJ_{138}	15.3	X	238.22050	88.40568	142.16945	12.75381	0.1662938	0.17884059	3.1200292	20	—	—
232988 2005 EY_{142}	15.9	X	355.81110	354.06745	138.10662	5.13166	0.2432031	0.18718899	3.0265593	20	—	—
232989 2005 EP_{143}	15.8	X	325.89715	291.74450	163.78035	5.45309	0.1339404	0.17648786	3.1476963	20	12 31.8	19.5
232990 2005 EG_{146}	16.2	X	268.58616	76.91200	135.86128	2.10374	0.1146407	0.18212156	3.0824436	20	—	—
232991 2005 ES_{147}	15.9	X	198.24357	158.55809	108.65840	2.60933	0.1229242	0.17690270	3.1427734	20	—	—
232992 2005 EW_{155}	15.4	X	233.11536	267.08627	15.72823	10.32514	0.0786466	0.18626679	3.0365406	20	2 2.4	20.1
232993 2005 EM_{158}	16.0	X	26.45899	87.11492	357.17692	3.70731	0.1346729	0.18493983	3.0510483	20	—	—
232994 2005 ES_{160}	15.8	X	26.86020	118.51198	19.98456	9.90017	0.0801070	0.19091770	2.9870231	20	2 20.4	19.7
232995 2005 EC_{162}	15.6	X	45.20172	91.26900	25.36817	9.38017	0.0605257	0.18992545	2.9974177	20	2 18.4	19.6
232996 2005 EW_{162}	15.8	X	306.73666	148.12004	19.43116	4.28777	0.0514113	0.18260922	3.0769533	20	—	—
232997 2005 ER_{174}	16.1	X	348.31733	103.72032	345.00126	11.04055	0.2786216	0.18188977	3.0850618	20	—	—
232998 2005 EO_{177}	15.9	X	320.60856	11.98145	184.91955	3.23394	0.0999899	0.18725804	3.0258152	20	1 22.7	19.9
232999 2005 EC_{180}	16.0	X	15.08150	238.06779	195.02898	5.93538	0.0908412	0.18102282	3.0949039	20	—	—
233000 2005 EX_{181}	15.9	X	338.43366	16.74060	111.20831	4.47281	0.0505331	0.18358394	3.0660525	20	—	—
233001 2005 EF_{184}	15.5	X	149.63105	36.86753	303.82798	0.63064	0.1159396	0.18370395	3.0647171	20	1 16.4	20.1
233002 2005 EJ_{185}	15.1	X	221.63527	337.33815	258.26573	9.15411	0.1698338	0.17553190	3.1591144	20	—	—
233003 2005 EG_{189}	15.4	X	341.62466	297.12343	236.73662	11.31896	0.1170601	0.19099706	2.9861957	20	1 18.0	19.4
233004 2005 ED_{194}	16.0	X	319.63588	330.54437	187.71984	4.18106	0.1381794	0.18424240	3.0587431	20	—	—
233005 2005 EA_{200}	15.9	X	10.22387	1.65946	89.05969	6.59025	0.1505977	0.18639923	3.0351021	20	—	—
233006 2005 EY_{203}	15.5	X	203.42996	150.76698	128.34362	10.64702	0.0682017	0.19002867	2.9963322	20	—	—
233007 2005 EE_{206}	15.7	X	342.90637	210.14863	327.81225	3.02868	0.1079957	0.18945615	3.0023656	20	1 29.9	19.5
233008 2005 EG_{206}	15.9	X	310.69904	168.46510	358.54241	9.86961	0.1531008	0.18225655	3.0809214	20	—	—
233009 2005 EQ_{207}	15.4	X	217.71504	296.64853	336.31143	4.49066	0.0726971	0.18424322	3.0587339	20	1 3.6	20.0
233010 2005 EY_{208}	15.6	X	146.76158	111.66447	189.00266	4.64229	0.1166781	0.17775484	3.1327213	20	—	—
233011 2005 EX_{213}	15.0	X	220.66288	16.99851	241.17306	7.92497	0.0941690	0.18203629	3.0834061	20	—	—
233012 2005 EG_{214}	15.3	X	41.26720	111.72187	337.55564	8.75117	0.0407563	0.18624657	3.0367604	20	1 7.1	19.4
233013 2005 EH_{216}	15.7	X	140.38369	133.50146	162.97130	1.06722	0.1752194	0.16967747	3.2313694	20	—	—
233014 2005 EJ_{216}	15.7	X	37.32760	72.19582	11.62643	9.68894	0.0645064	0.18313868	3.0710201	20	—	—
233015 2005 EP_{219}	15.6	X	327.18137	280.81062	198.75627	4.82944	0.0985683	0.17685258	3.1433672	20	—	—
233016 2005 EZ_{224}	14.5	X	239.47159	90.50040	110.23969	32.86663	0.0349412	0.16996185	3.2277638	20	—	—
233017 2005 EC_{247}	16.3	X	272.42905	153.51710	60.61120	0.65085	0.1196468	0.18296203	3.0729965	20	—	—
233018 2005 EP_{248}	15.5	X	111.31124	160.53298	181.24090	6.34778	0.0857377	0.17825292	3.1268829	20	—	—
233019 2005 EG_{251}	15.2	X	247.19302	5.77959	274.19065	2.86890	0.1758579	0.19151140	2.9808466	20	2 1.3	19.9
233020 2005 ER_{257}	15.8	X	291.31382	191.37979	342.72588	4.42938	0.1121932	0.18017694	3.1045828	20	—	—
233021 2005 EY_{257}	15.8	X	239.68010	91.73868	212.78088	3.65877	0.0628983	0.19284928	2.9670443	20	3 1.5	20.3
233022 2005 EG_{261}	15.4	X	90.16109	47.92450	17.84745	10.20160	0.0909848	0.19286262	2.9669075	20	2 19.4	19.5
233023 2005 ER_{264}	15.7	X	314.33236	306.23483	267.71939	1.71641	0.0983653	0.19081862	2.9880570	20	2 4.4	19.7
233024 2005 EN_{269}	16.2	X	14.55062	341.31174	326.03005	2.97425	0.1687973	0.21395084	2.7685989	20	9 22.9	19.2
233025 2005 EX_{270}	15.9	X	93.20332	221.76833	19.76827	13.45837	0.2138885	0.22232430	2.6986388	20	10 15.6	20.3
233026 2005 ET_{271}	15.8	X	322.29389	118.69430	87.21893	4.67482	0.0657777	0.19272457	2.9683241	20	2 11.0	19.7
233027 2005 EQ_{274}	14.9	X	282.41360	275.79040	307.94594	10.82421	0.0900556	0.18687647	3.0299326	20	1 12.2	19.2
233028 2005 EP_{278}	16.1	X	38.40992	172.72022	95.65286	9.82407	0.2719797	0.21272887	2.7791912	20	10 1.6	19.8
233029 2005 EE_{280}	15.3	X	306.56825	51.83919	141.77133	10.80230	0.1353918	0.18504828	3.0498561	20	—	—
233030 2005 EC_{284}	15.3	X	246.14423	92.66077	136.07824	16.72819	0.0383344	0.18525982	3.0475340	20	—	—
233031 2005 EJ_{290}	15.6	X	280.24554	198.26678	329.68498	16.54971	0.1611945	0.17669608	3.1452230	20	—	—
233032 2005 EM_{292}	16.1	X	34.09608	143.07555	115.91585	9.01651	0.1812174	0.20966600	2.8061919	20	8 24.1	19.4
233033 2005 ER_{293}	15.3	X	330.70411	32.46345	127.42104	11.31758	0.0269452	0.18859063	3.0115447	20	—	—
233034 2005 EM_{295}	15.6	X	273.18746	209.09670	6.99123	2.36129	0.0430984	0.18339161	3.0681958	20	—	—
233035 2005 EQ_{318}	15.3	X	313.70102	112.70618	104.68044	11.41032	0.0726120	0.19074289	2.9888478	20	2 14.3	19.4
233036 2005 EG_{330}	15.3	X	308.29756	51.47799	105.77366	10.74498	0.1142088	0.18291307	3.0735448	20	—	—
233037 2005 FA_{8}	14.9	X	146.25607	142.40258	148.00000	19.03351	0.0989977	0.17025496	3.2240582	20	—	—
233038 2005 GE_{3}	15.5	X	66.14993	139.89873	98.43228	16.54532	0.1429328	0.21462023	2.7628393	20	9 10.9	19.7
233039 2005 GB_{13}	15.4	X	338.40514	330.72688	130.18561	6.95739	0.1573714	0.17609578	3.1523668	20	—	—
233040 2005 GC_{19}	15.8	X	297.62664	199.96621	353.30156	3.95833	0.1577204	0.18345159	3.0675270	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
233041 2005 GH_{22}	15.2	X	237.14029	95.56183	143.25469	11.59532	0.0667013	0.17860036	3.1228263	20	—	—
233042 2005 GN_{27}	15.8	X	250.20884	36.63365	160.03117	1.94930	0.1325946	0.17427867	3.1742410	20	—	—
233043 2005 GQ_{28}	15.3	X	316.15727	332.25548	215.41094	8.38083	0.0506397	0.18482581	3.0523029	20	1 12.0	19.6
233044 2005 GF_{33}	14.6	X	242.59783	74.62994	159.47898	25.94312	0.2357348	0.17482684	3.1676022	20	—	—
233045 2005 GE_{37}	14.7	X	240.04369	76.94122	142.80583	18.14869	0.1313433	0.17523702	3.1626573	20	—	—
233046 2005 GO_{41}	16.8	X	163.26985	338.92555	203.76335	2.21995	0.1292673	0.22876281	2.6477630	20	10 5.2	21.0
233047 2005 GB_{47}	15.6	X	186.41874	72.71800	194.88406	1.82315	0.0536917	0.17633160	3.1495556	20	—	—
233048 2005 GK_{49}	15.6	X	297.25471	80.97065	63.07875	2.19739	0.1606032	0.17539833	3.1607180	20	—	—
233049 2005 GT_{57}	15.3	X	97.84120	325.89617	39.28560	8.78728	0.1187009	0.17593854	3.1542448	20	—	—
233050 2005 GU_{67}	15.0	X	257.73452	76.42545	87.61524	22.80782	0.0752288	0.17121104	3.2120444	20	12 19.9	19.3
233051 2005 GP_{77}	15.3	X	353.73481	333.78509	158.50698	13.46987	0.1339155	0.18497757	3.0506333	20	—	—
233052 2005 GG_{79}	15.4	X	350.58981	14.34549	120.81531	16.88585	0.2153075	0.18368259	3.0649547	20	—	—
233053 2005 GW_{80}	15.2	X	8.93224	53.26850	35.07703	11.80790	0.0565938	0.17463224	3.1699550	20	—	—
233054 2005 GA_{88}	15.8	X	359.26590	168.36313	359.83236	8.83518	0.1061358	0.19029238	2.9935634	20	2 13.8	19.5
233055 2005 GA_{111}	16.1	X	272.01488	235.32371	15.94598	1.12249	0.0358988	0.18830143	3.0146274	20	2 8.1	20.4
233056 2005 GP_{112}	15.7	X	301.73676	233.41253	333.48007	4.73346	0.0630165	0.18464217	3.0543265	20	1 18.3	20.0
233057 2005 GV_{114}	15.9	X	282.42762	9.68692	176.59332	0.41054	0.1234271	0.17810927	3.1285639	20	—	—
233058 2005 GU_{127}	15.3	X	239.35913	96.44177	144.05340	25.39222	0.2600274	0.17530986	3.1617813	20	—	—
233059 2005 GH_{136}	15.6	X	203.70190	111.99363	177.55211	9.96871	0.1927340	0.17634582	3.1493863	20	1 8.6	21.1
233060 2005 GX_{141}	14.9	X	281.88694	89.18816	70.21045	23.68198	0.1762189	0.17291938	3.1908541	20	—	—
233061 2005 GH_{146}	16.1	X	309.91399	272.74465	215.09144	4.32629	0.1806098	0.17551416	3.1593273	20	—	—
233062 2005 GO_{149}	15.6	X	247.39924	87.50970	186.27757	9.21330	0.1594832	0.18235278	3.0798374	20	1 26.2	20.6
233063 2005 GD_{162}	16.4	X	309.52285	112.42267	41.00883	1.53332	0.1323679	0.17712921	3.1400936	20	—	—
233064 2005 GJ_{166}	16.2	X	318.99777	61.06027	103.98084	1.87802	0.2045059	0.18249670	3.0782180	20	—	—
233065 2005 GL_{167}	15.7	X	255.59860	158.37410	49.10306	5.82482	0.1307523	0.17409725	3.1764458	20	—	—
233066 2005 GT_{208}	15.0	X	297.02185	16.57938	92.53838	18.03588	0.0620769	0.17164993	3.2065668	20	12 8.5	19.3
233067 2005 JR	15.3	X	239.63062	143.64562	101.60300	3.65007	0.1336950	0.17685630	3.1433231	20	—	—
233068 2005 JT_{3}	15.5	X	289.61055	280.59058	290.81058	6.72933	0.1595798	0.18140167	3.0905933	20	—	—
233069 2005 JJ_{67}	14.9	X	185.47561	98.91745	113.02063	14.11323	0.0252706	0.16216685	3.3303867	20	11 30.1	19.9
233070 2005 JS_{68}	15.2	X	309.10432	12.89633	122.12121	12.28099	0.2171268	0.17531817	3.1616813	20	—	—
233071 2005 JY_{70}	15.3	X	154.06479	143.70623	175.16451	7.75689	0.1825952	0.17230052	3.1984900	20	1 2.1	20.5
233072 2005 JC_{80}	17.9	X	0.22019	324.46463	315.19401	0.65270	0.1810928	0.26756197	2.3851725	20	7 23.6	19.5
233073 2005 JP_{106}	15.0	X	277.53410	185.57562	335.46637	22.06688	0.1460311	0.17462958	3.1699872	20	—	—
233074 2005 LQ_{10}	15.3	X	159.00747	231.64766	199.82691	11.62011	0.0391050	0.19457608	2.9494639	20	5 9.7	19.6
233075 2005 NX_{14}	15.1	X	236.11226	177.73058	123.99715	11.77136	0.2053158	0.17603599	3.1530806	20	2 18.6	20.4
233076 2005 ND_{15}	14.8	X	216.10723	29.30009	280.13806	14.88807	0.2689251	0.17254261	3.1954975	20	2 4.9	20.6
233077 2005 NE_{26}	15.3	X	202.77279	215.06808	103.26306	10.47274	0.1884686	0.17084358	3.2166485	20	2 12.6	20.7
233078 2005 NF_{63}	16.4	X	19.73455	77.59676	282.27851	21.77872	0.1747116	0.27498564	2.3420493	20	12 30.3	19.1
233079 2005 NM_{123}	17.4	X	16.05486	223.93448	139.54846	2.88289	0.2008177	0.27494478	2.3422814	20	—	—
233080 2005 PG	16.1	X	68.64684	294.64449	72.99795	3.55139	0.3465285	0.27965776	2.3158911	20	—	—
233081 2005 QW_{16}	17.1	X	310.10760	334.70573	107.97645	1.55027	0.2501930	0.27033347	2.3688424	20	12 25.4	18.3
233082 2005 QX_{74}	16.8	X	110.66697	65.12316	245.64438	11.60200	0.1305467	0.28590139	2.2820503	20	—	—
233083 2005 QA_{75}	17.2	X	138.89731	34.38771	346.58066	6.58199	0.1758779	0.29792488	2.2202312	20	2 17.0	20.1
233084 2005 QH_{86}	17.1	X	17.25511	107.50634	286.66467	3.54864	0.1377779	0.27238451	2.3569360	20	—	—
233085 2005 QV_{89}	17.4	X	39.95457	45.42636	318.42184	5.32161	0.1372582	0.27928857	2.3179316	20	—	—
233086 2005 QQ_{114}	16.9	X	109.85409	70.14564	342.00398	6.28410	0.1183522	0.29616631	2.2290114	20	2 14.3	19.3
233087 2005 QZ_{188}	18.0	X	149.11772	230.67000	208.89355	2.40882	0.0197755	0.31007078	2.1618662	20	5 1.2	20.2
233088 2005 RZ_{3}	17.2	X	67.57446	31.74367	2.23192	7.45649	0.1649123	0.28587953	2.2821666	20	—	—
233089 2005 RZ_{17}	17.3	X	316.60782	47.96962	68.08875	3.42392	0.1160317	0.28163334	2.3050481	20	—	—
233090 2005 RM_{26}	17.1	X	114.95037	60.39391	337.85483	6.50880	0.1697011	0.29595626	2.2300659	20	2 10.2	19.7
233091 2005 RF_{28}	17.2	X	209.58662	14.03814	318.47623	6.15540	0.2142112	0.30263700	2.1971246	20	2 20.9	20.9
233092 2005 RO_{30}	16.4	X	3.35441	91.10982	311.52961	11.26851	0.2179071	0.27235927	2.3570816	20	—	—
233093 2005 RV_{33}	15.5	X	223.07708	32.46879	312.74679	12.58526	0.2104483	0.23774876	2.5806189	20	3 17.9	20.1
233094 2005 RN_{45}	17.3	X	73.90682	104.54256	325.17996	2.10072	0.1405364	0.29222658	2.2490006	20	1 15.4	19.1
233095 2005 SJ_{3}	17.2	X	205.62809	353.66048	322.82292	3.06110	0.1753225	0.29885874	2.2156037	20	1 29.6	20.7
233096 2005 SX_{8}	16.9	X	72.91972	210.99765	182.76187	5.85945	0.1008623	0.28492609	2.2872549	20	—	—
233097 2005 SL_{24}	17.0	X	138.49097	264.10674	118.34949	5.22918	0.1776649	0.29665206	2.2265774	20	2 18.8	20.0
233098 2005 SC_{27}	16.9	X	295.55797	244.27307	272.98616	4.97687	0.1110384	0.28251362	2.3002575	20	—	—
233099 2005 SA_{48}	17.7	X	17.05942	245.66065	320.55483	2.33035	0.0575011	0.30783327	2.1723294	20	4 20.4	19.9
233100 2005 SR_{56}	17.9	X	309.25750	241.90134	168.65398	5.22932	0.2265278	0.26666674	2.3905077	20	10 27.3	19.5
233101 2005 SE_{78}	17.1	X	91.69777	231.57920	177.93979	4.66678	0.1207824	0.29185622	2.2509028	20	1 12.8	19.3
233102 2005 SF_{81}	17.2	X	34.39091	72.09171	9.71999	5.50514	0.1291425	0.28686299	2.2769476	20	—	—
233103 2005 SA_{90}	17.4	X	40.98196	248.45539	208.46319	3.14220	0.1285721	0.28811899	2.2703255	20	—	—
233104 2005 SX_{94}	16.2	X	293.06741	215.97740	213.51304	22.74201	0.2263347	0.26493663	2.4009036	20	10 13.2	18.3
233105 2005 SO_{103}	16.9	X	2.46497	162.72474	186.53136	9.18438	0.1418767	0.26538406	2.3982042	20	11 12.5	19.4
233106 2005 SB_{104}	16.6	X	66.17636	23.70408	352.13869	8.55538	0.1617156	0.27980785	2.3150629	20	—	—
233107 2005 ST_{115}	18.0	X	5.65064	129.47776	3.33595	3.70259	0.1540633	0.28900425	2.2656869	20	—	—
233108 2005 SG_{134}	17.8	X	69.88587	45.54536	29.90401	2.38624	0.1369770	0.28971856	2.2619613	20	1 16.9	19.7
233109 2005 SA_{137}	17.0	X	249.44187	352.46851	189.98438	11.60135	0.0798055	0.27966989	2.3158241	20	—	—
233110 2005 SG_{158}	17.4	X	323.37173	185.48868	225.60053	2.11373	0.1713437	0.26793172	2.3829776	20	12 1.5	19.2
233111 2005 SW_{162}	17.2	X	342.47730	262.41403	93.33331	5.91719	0.2438497	0.26489667	2.4011450	20	10 27.4	18.8
233112 2005 SM_{165}	17.5	X	150.02844	255.40242	171.92631	4.28161	0.0616758	0.30793996	2.1718276	20	4 20.1	20.2
233113 2005 SP_{218}	16.5	X	101.87770	324.17512	72.30165	5.91651	0.1280330	0.28937484	2.2637521	20	1 13.7	18.8
233114 2005 ST_{221}	15.8	X	20.22768	204.56862	238.96135	24.38430	0.1990689	0.28025786	2.3125840	20	—	—
233115 2005 SY_{226}	17.9	X	146.15419	17.00247	59.83521	1.47028	0.0608556	0.30704600	2.1760410	20	4 27.6	20.5
233116 2005 SZ_{232}	17.7	X	234.69970	225.49951	248.54916	0.33554	0.1374822	0.25837755	2.4413658	20	9 26.9	21.0
233117 2005 SQ_{257}	16.6	X	40.65896	135.32873	238.96305	4.24526	0.2403639	0.27515571	2.3410842	20	—	—
233118 2005 TW_{7}	17.6	X	17.70212	339.99288	155.72808	2.88013	0.1032770	0.29178131	2.2512880	20	1 6.2	19.6
233119 2005 TH_{21}	17.8	X	66.93558	274.67912	146.45132	3.29875	0.1745205	0.28764224	2.2728334	20	—	—
233120 2005 TN_{24}	17.0	X	48.69493	311.49337	62.10440	0.55528	0.2214795	0.27656475	2.3331259	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
233121 2005 TD_{40}	17.3	X	64.29757	93.30644	47.00965	7.46104	0.0961378	0.30030297	2.2084944	20	4 9.5	19.5
233122 2005 TP_{59}	17.3	X	359.11175	295.52090	208.22925	5.61238	0.1050959	0.28940384	2.2636009	20	—	—
233123 2005 TB_{60}	17.5	X	27.50598	268.36131	212.95125	4.39219	0.0965908	0.29041520	2.2583426	20	1 2.9	19.6
233124 2005 TF_{83}	17.2	X	166.40815	18.91374	337.19868	3.84721	0.1621805	0.29589445	2.2303764	20	2 11.7	20.2
233125 2005 TB_{86}	16.9	X	167.05719	92.95439	266.91569	6.35269	0.1720879	0.29672548	2.2262102	20	2 14.7	20.3
233126 2005 TY_{103}	17.2	X	81.46817	123.14019	333.85530	4.42846	0.0550369	0.29721413	2.2237694	20	2 24.4	19.4
233127 2005 TB_{128}	18.0	X	9.58238	93.89308	7.89307	2.65437	0.1455851	0.28316264	2.2967413	20	—	—
233128 2005 TY_{187}	17.1	X	246.62086	15.67738	151.22308	5.52513	0.1622364	0.27261410	2.3556125	20	12 24.5	19.7
233129 2005 UT_{18}	17.1	X	54.95969	221.93715	163.57342	2.27178	0.1431686	0.27746185	2.3280941	20	—	—
233130 2005 UD_{41}	17.3	X	17.46997	195.26885	204.36524	1.92213	0.1932556	0.27207557	2.3587198	20	—	—
233131 2005 UO_{41}	15.7	X	160.16117	345.57735	60.09759	35.20074	0.2189795	0.23229642	2.6208432	20	4 29.0	20.5
233132 2005 UB_{51}	17.1	X	148.08042	30.13601	337.83732	3.26211	0.1825510	0.29407132	2.2395853	20	2 10.4	20.3
233133 2005 UZ_{58}	16.9	X	31.03846	153.95197	254.46779	3.51934	0.0985600	0.27641023	2.3339953	20	—	—
233134 2005 UN_{77}	16.9	X	322.77327	319.45423	149.07962	4.96549	0.1577527	0.27222538	2.3578544	20	—	—
233135 2005 UF_{84}	17.8	X	341.32663	268.29284	202.10070	1.86171	0.1877282	0.27698980	2.3307384	20	—	—
233136 2005 UF_{106}	17.6	X	276.20101	48.58537	140.40944	3.38376	0.1060963	0.27911290	2.3189041	20	—	—
233137 2005 UU_{109}	16.9	X	356.95120	280.85099	260.35694	5.84867	0.0242371	0.29340334	2.2429832	20	2 12.2	19.5
233138 2005 UC_{110}	17.2	X	35.38096	178.20294	280.86219	3.51579	0.0677197	0.28451730	2.2894453	20	—	—
233139 2005 UC_{112}	17.2	X	339.84329	87.37320	27.77159	4.16747	0.1051499	0.27653017	2.3333203	20	—	—
233140 2005 UY_{131}	16.8	X	162.56508	190.29277	137.04312	7.55176	0.1962677	0.28989065	2.2610660	20	1 5.5	20.1
233141 2005 UG_{132}	16.7	X	343.66218	347.47366	101.61997	13.21652	0.1372903	0.27322138	2.3521207	20	—	—
233142 2005 UP_{161}	15.7	X	326.53961	154.32444	110.78696	9.78241	0.1020216	0.24015548	2.5633488	20	4 29.1	18.8
233143 2005 UK_{163}	17.2	X	346.98886	311.63322	106.28847	2.16263	0.1793660	0.26895607	2.3769232	20	—	—
233144 2005 UH_{165}	18.0	X	3.17132	252.33203	226.04146	2.13035	0.1218082	0.28345998	2.2951349	20	—	—
233145 2005 US_{178}	17.3	X	324.15068	292.10479	207.07653	4.75290	0.0837545	0.27835356	2.3231194	20	—	—
233146 2005 UC_{183}	18.0	X	292.37857	60.54119	62.12493	3.05481	0.1387446	0.26799681	2.3825917	20	—	—
233147 2005 UB_{214}	16.6	X	309.38000	155.14093	302.57146	4.21708	0.1891825	0.26705508	2.3881897	20	—	—
233148 2005 UP_{214}	16.8	X	205.17228	46.52806	281.71320	5.32392	0.1401164	0.29698435	2.2249163	20	2 10.7	20.3
233149 2005 UM_{224}	17.3	X	232.16492	165.85207	346.28298	2.43472	0.1262126	0.26519115	2.3993671	20	11 16.3	20.4
233150 2005 UR_{230}	15.9	X	149.16840	242.62981	165.66997	4.43256	0.1442873	0.23053838	2.6341503	20	4 5.1	19.9
233151 2005 UX_{241}	16.9	X	252.34459	287.41018	343.22586	2.96106	0.0472835	0.22309683	2.6924054	20	2 3.1	20.6
233152 2005 UZ_{244}	17.1	X	0.92518	164.58696	269.91613	6.07729	0.2052887	0.27339802	2.3511074	20	—	—
233153 2005 UB_{260}	17.5	X	5.78605	54.60857	115.91673	2.00327	0.0735069	0.29479884	2.2358991	20	2 8.9	19.7
233154 2005 UC_{321}	17.4	X	96.13268	212.86207	163.43643	2.47384	0.0580036	0.28334055	2.2957798	20	—	—
233155 2005 UW_{342}	16.7	X	73.73665	69.21783	317.94455	2.31302	0.1666648	0.28120731	2.3073757	20	—	—
233156 2005 UO_{354}	16.4	X	70.24851	35.15250	341.57079	6.06778	0.1664914	0.27939976	2.3173166	20	—	—
233157 2005 UJ_{364}	17.5	X	292.50255	109.01017	95.39652	3.43360	0.1113340	0.28662811	2.2781914	20	—	—
233158 2005 UZ_{378}	17.9	X	345.04528	31.01048	90.44590	1.42725	0.1635800	0.28133541	2.3066752	20	—	—
233159 2005 UD_{387}	17.2	X	309.86774	2.49049	275.03679	1.75444	0.0324684	0.30352867	2.1928196	20	4 21.4	19.4
233160 2005 UT_{428}	17.6	X	14.87072	202.74323	289.04851	0.90531	0.0718080	0.28676234	2.2774804	20	—	—
233161 2005 UQ_{442}	15.7	X	84.56432	136.48584	356.96454	11.54325	0.0670504	0.23353349	2.6115796	20	4 23.6	19.2
233162 2005 UZ_{443}	17.0	X	17.29696	89.37778	334.45821	5.11506	0.1672814	0.27589552	2.3368972	20	—	—
233163 2005 US_{449}	17.1	X	116.20951	76.71791	301.79987	5.10934	0.1749249	0.28761345	2.2729851	20	1 17.1	19.7
233164 2005 UN_{475}	17.6	X	353.71898	183.85574	292.26008	2.37400	0.1018772	0.28076562	2.3097950	20	—	—
233165 2005 UN_{477}	16.7	X	269.74030	206.44352	24.86284	7.23529	0.0701555	0.28875066	2.2670132	20	—	—
233166 2005 UF_{508}	16.3	X	343.26616	234.85912	137.15846	5.24163	0.1126166	0.24462512	2.5320290	20	11 2.7	19.0
233167 2005 UL_{509}	17.7	X	269.18002	119.82733	15.76197	2.50678	0.1472952	0.26490033	2.4011229	20	12 17.6	19.9
233168 2005 VJ_{4}	17.1	X	157.68262	79.02933	335.17336	7.68623	0.1056302	0.30132385	2.2035033	20	4 10.4	20.3
233169 2005 VF_{15}	17.2	X	127.65938	2.52713	35.18605	6.88736	0.1656380	0.29347228	2.2426319	20	2 27.7	20.2
233170 2005 VT_{16}	17.5	X	1.90898	262.39030	116.22982	5.23529	0.2877969	0.26845894	2.3798567	20	—	—
233171 2005 VE_{21}	17.3	X	79.09782	216.93345	199.40010	6.40339	0.0919259	0.28747417	2.2737192	20	—	—
233172 2005 VL_{21}	17.9	X	16.95137	60.50500	82.45272	4.66535	0.0536308	0.29121372	2.2542124	20	1 20.7	20.3
233173 2005 VJ_{41}	16.9	X	37.84374	244.85656	176.86398	2.68790	0.1634370	0.27875560	2.3208852	20	—	—
233174 2005 VX_{69}	16.9	X	172.02096	28.53046	178.72443	3.85970	0.1852576	0.26101798	2.4248736	20	11 15.8	20.8
233175 2005 VJ_{78}	15.8	X	233.00302	41.96023	313.30487	3.47996	0.1786547	0.23808790	2.5781677	20	4 13.9	19.9
233176 2005 VX_{119}	15.4	X	177.85056	107.65111	317.55270	21.56198	0.0466835	0.22628881	2.6670265	20	5 16.5	19.8
233177 2005 VQ_{123}	18.1	X	286.11175	190.02302	313.15689	1.80457	0.1413578	0.26850328	2.3795947	20	—	—
233178 2005 VG_{125}	16.2	X	112.65222	228.47254	298.28632	12.24824	0.1969232	0.22928644	2.6437302	20	7 31.2	20.3
233179 2005 WJ_{24}	17.4	X	301.26336	144.56848	327.60323	1.80220	0.1739685	0.26703598	2.3883036	20	—	—
233180 2005 WU_{25}	17.3	X	308.30280	187.40583	290.02526	2.68660	0.1320075	0.26927921	2.3750212	20	—	—
233181 2005 WX_{29}	17.5	X	30.32113	67.60195	16.35697	1.73389	0.1165428	0.27963787	2.3160009	20	—	—
233182 2005 WF_{41}	17.0	X	105.17156	111.96546	245.50703	4.59943	0.1913194	0.28267412	2.2993867	20	—	—
233183 2005 WW_{55}	16.6	X	164.13871	41.14958	282.50705	4.72343	0.2462717	0.28762606	2.2729187	20	1 7.3	20.1
233184 2005 WZ_{60}	17.7	X	326.87965	71.74277	5.30696	2.35389	0.1692469	0.26693769	2.3888898	20	—	—
233185 2005 WC_{62}	16.4	X	244.87030	237.46275	114.63549	12.01377	0.2075066	0.24003297	2.5642210	20	4 25.9	20.7
233186 2005 WU_{80}	17.1	X	66.30630	0.53866	61.24536	6.54544	0.1777836	0.28358572	2.2944564	20	—	—
233187 2005 WF_{82}	17.6	X	301.35855	75.77458	69.37214	3.20934	0.1448896	0.27429831	2.3459601	20	—	—
233188 2005 WM_{89}	16.5	X	63.95227	144.24917	253.33145	6.22861	0.1100619	0.27876288	2.3208448	20	—	—
233189 2005 WR_{100}	15.9	X	82.37048	103.98382	72.95577	13.76015	0.1909657	0.23564739	2.5959379	20	7 13.4	19.6
233190 2005 WQ_{112}	16.2	X	208.50369	122.78230	273.79426	12.69919	0.1694497	0.23423125	2.6063905	20	5 13.4	20.5
233191 2005 WM_{137}	18.5	X	356.92366	192.21029	59.46589	1.00784	0.0779961	0.30752239	2.1737932	20	5 28.2	20.4
233192 2005 WD_{150}	17.3	X	303.46408	172.38792	18.03727	3.16880	0.1126135	0.28088541	2.3091382	20	—	—
233193 2005 WX_{151}	17.2	X	342.51974	90.04750	355.51233	2.57159	0.1637939	0.27126890	2.3633936	20	—	—
233194 2005 WH_{160}	17.4	X	280.06039	87.56953	53.51053	1.95331	0.1307013	0.26449203	2.4035933	20	—	—
233195 2005 WL_{164}	17.8	X	344.95893	316.04033	222.04409	2.91596	0.0767013	0.29019349	2.2594927	20	1 16.6	20.2
233196 2005 WU_{169}	16.8	X	309.81301	309.06169	238.13661	4.88178	0.1046164	0.28187496	2.3037308	20	—	—
233197 2005 WX_{170}	16.8	X	108.52769	104.49113	257.51228	2.84933	0.0804000	0.27943688	2.3171113	20	—	—
233198 2005 WZ_{178}	16.2	X	145.46342	344.78958	108.33308	13.41158	0.1054066	0.23911845	2.5707548	20	5 27.6	20.2
233199 2005 WL_{186}	16.7	X	256.20834	14.04642	152.43542	1.47712	0.1249171	0.26053296	2.4278821	20	—	—
233200 2005 WT_{189}	14.5	X	287.30050	45.30105	303.60809	12.41906	0.0955088	0.24676972	2.5173376	20	6 23.5	17.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
233201 2005 WR_{197}	17.3	X	298.82766	169.00281	342.80939	1.88412	0.1662410	0.27119756	2.3638080	20	—	—
233202 2005 WN_{198}	17.3	X	257.87074	16.68306	290.51724	2.14825	0.2073086	0.30410766	2.1900354	20	3 1.8	20.7
233203 2005 XF_{2}	17.2	X	287.63054	109.42225	65.74919	2.45617	0.1012179	0.27640437	2.3340283	20	—	—
233204 2005 XQ_{11}	17.0	X	207.97628	193.07875	111.48153	5.87722	0.1114527	0.28846094	2.2685309	20	1 16.7	20.2
233205 2005 XZ_{22}	17.8	X	315.70027	282.91202	229.28115	1.22507	0.1597264	0.27525946	2.3404959	20	—	—
233206 2005 XJ_{27}	17.7	X	295.69702	203.50173	288.03757	4.23624	0.1393137	0.26879360	2.3778809	20	—	—
233207 2005 XR_{57}	16.9	X	344.78992	48.33321	115.82960	3.08714	0.0900224	0.28450286	2.2895227	20	—	—
233208 2005 XT_{61}	16.2	X	32.88110	125.60476	154.03393	9.06525	0.1275234	0.23262430	2.6183799	20	9 14.1	19.3
233209 2005 XA_{62}	16.6	X	91.22708	297.06732	92.32864	10.94371	0.0459069	0.28148453	2.3058605	20	—	—
233210 2005 XC_{62}	17.1	X	125.61352	69.67556	291.35641	2.71870	0.2080376	0.28570359	2.2831034	20	1 11.0	20.0
233211 2005 XL_{65}	16.2	X	254.75494	286.81932	123.42370	5.58304	0.0133827	0.23372771	2.6101327	20	8 14.1	19.6
233212 2005 XU_{65}	17.2	X	352.99893	271.35887	190.28258	2.32468	0.0868438	0.27525240	2.3405359	20	—	—
233213 2005 XE_{73}	17.1	X	125.73553	331.58893	331.19850	3.90568	0.1346845	0.26998267	2.3708939	20	—	—
233214 2005 XT_{110}	16.8	X	266.63733	15.21439	1.91929	1.92126	0.1451133	0.23029099	2.6360365	20	6 24.2	20.3
233215 2005 XO_{115}	16.3	X	86.58406	146.72962	345.31308	11.97636	0.0803859	0.21798035	2.7343734	20	4 26.2	20.2
233216 2005 XW_{116}	16.2	X	255.00271	260.37039	92.85361	7.34516	0.1787802	0.23601097	2.5932711	20	5 7.4	20.1
233217 2005 YM	17.1	X	249.80295	84.92645	90.38571	7.37770	0.1178391	0.26609789	2.3939133	20	—	—
233218 2005 YU_{9}	16.9	X	147.27810	188.86895	117.55436	4.21273	0.1813281	0.27817759	2.3240990	20	—	—
233219 2005 YL_{11}	16.8	X	249.94927	158.02937	45.61696	2.77445	0.1447675	0.26988553	2.3714628	20	—	—
233220 2005 YO_{12}	16.9	X	249.97449	230.99414	279.08143	1.45735	0.1352906	0.26091290	2.4255246	20	12 6.9	19.8
233221 2005 YH_{13}	16.8	X	238.16093	242.00370	280.04619	0.51011	0.1229776	0.25784764	2.4447096	20	12 7.2	19.5
233222 2005 YO_{13}	17.1	X	344.52815	235.45372	117.84182	2.69037	0.0282011	0.24817216	2.5078449	20	10 4.2	20.1
233223 2005 YS_{26}	15.7	X	145.13104	140.82736	292.12588	21.18577	0.0483133	0.22742139	2.6581644	20	4 12.4	20.0
233224 2005 YU_{26}	17.2	X	280.52592	173.06956	335.64548	3.68284	0.2717788	0.26300343	2.4126543	20	—	—
233225 2005 YZ_{30}	17.0	X	219.87724	238.09915	300.75047	1.18623	0.1753018	0.25634321	2.4542653	20	11 27.5	20.1
233226 2005 YZ_{34}	16.1	X	339.91472	272.22662	280.15386	4.37751	0.0436128	0.21444095	2.7643789	20	2 14.2	19.7
233227 2005 YK_{38}	16.2	X	324.26211	37.40328	35.59959	8.83459	0.1118064	0.26149388	2.4219306	20	12 29.6	18.8
233228 2005 YW_{38}	17.0	X	263.41766	99.74620	21.87977	1.39510	0.1394850	0.25986465	2.4320430	20	11 17.3	19.4
233229 2005 YD_{39}	16.2	X	337.70617	203.18696	185.04330	7.91694	0.2365334	0.25842888	2.4410425	20	12 2.4	18.1
233230 2005 YQ_{45}	17.1	X	233.20063	299.17806	264.03445	2.48584	0.1900741	0.26316031	2.4116954	20	—	—
233231 2005 YB_{46}	16.8	X	16.56262	222.70651	142.21663	3.65230	0.2411227	0.26208706	2.4182749	20	—	—
233232 2005 YB_{47}	16.8	X	281.46783	171.12663	337.42728	2.18942	0.1414720	0.26356692	2.4092144	20	—	—
233233 2005 YW_{48}	16.8	X	301.99814	334.33270	99.37138	3.59753	0.1660571	0.25696649	2.4502951	20	11 16.1	19.0
233234 2005 YM_{52}	16.3	X	138.67765	135.37332	264.69981	5.16367	0.0775986	0.21902375	2.7256823	20	3 5.3	20.3
233235 2005 YT_{58}	16.3	X	26.79885	215.27371	301.29451	4.02196	0.0999259	0.21871781	2.7282235	20	3 5.3	19.4
233236 2005 YX_{61}	16.9	X	182.15756	148.95803	74.44547	2.20003	0.1389106	0.25939663	2.4349675	20	12 17.7	20.2
233237 2005 YQ_{67}	16.6	X	279.42907	237.17205	301.30933	6.69266	0.0415325	0.27094474	2.3652782	20	—	—
233238 2005 YS_{75}	16.8	X	225.12098	234.16788	309.57698	5.49157	0.0737117	0.26177479	2.4201977	20	12 27.4	19.7
233239 2005 YL_{76}	17.3	X	247.56448	254.99860	329.73455	3.05734	0.1433660	0.27215161	2.3582804	20	—	—
233240 2005 YB_{83}	17.0	X	25.38493	231.04874	137.59350	2.95241	0.1863509	0.26254367	2.4154702	20	—	—
233241 2005 YC_{83}	16.9	X	235.43708	82.97698	131.76532	3.50971	0.1229591	0.26633880	2.3924696	20	—	—
233242 2005 YD_{87}	17.2	X	238.34330	146.63072	103.15858	0.85386	0.0935883	0.27613293	2.3355576	20	—	—
233243 2005 YB_{92}	16.5	X	190.35473	81.77354	131.67098	3.21572	0.1347378	0.25791261	2.4442990	20	12 14.3	20.1
233244 2005 YL_{106}	16.7	X	208.95417	147.03275	112.19642	6.00558	0.2038147	0.27244229	2.3566027	20	—	—
233245 2005 YG_{111}	17.2	X	281.35334	19.69177	156.67628	2.76262	0.1576798	0.26871866	2.3783230	20	—	—
233246 2005 YY_{111}	17.2	X	268.31867	243.60447	235.04628	0.52255	0.1458083	0.25830187	2.4418427	20	11 20.0	19.6
233247 2005 YA_{115}	16.4	X	150.41848	326.42658	48.29317	2.52175	0.1016893	0.21680131	2.7442781	20	2 22.5	20.4
233248 2005 YC_{115}	17.3	X	140.64550	8.35416	59.19071	3.06830	0.1963616	0.22607639	2.6686969	20	4 24.6	21.5
233249 2005 YS_{118}	17.6	X	337.31642	109.61868	342.75014	2.89835	0.1598220	0.26731290	2.3866538	20	—	—
233250 2005 YF_{120}	17.2	X	295.48298	23.92084	123.30549	4.01619	0.1819031	0.26681831	2.3896023	20	—	—
233251 2005 YO_{122}	16.8	X	195.79016	171.81072	81.68884	6.71965	0.0605941	0.27107649	2.3645118	20	—	—
233252 2005 YS_{123}	16.1	X	236.25515	248.46077	97.21469	13.72718	0.1919093	0.23119748	2.6291416	20	4 13.2	20.6
233253 2005 YF_{126}	17.0	X	244.27666	189.13597	341.35652	3.72041	0.0816108	0.26213548	2.4179771	20	—	—
233254 2005 YH_{127}	17.6	X	348.92136	101.10870	7.63370	2.38138	0.1686576	0.27298857	2.3534578	20	—	—
233255 2005 YB_{144}	16.9	X	214.67248	244.14490	0.27023	1.90502	0.1749992	0.26583893	2.3954677	20	—	—
233256 2005 YZ_{151}	16.5	X	175.81340	155.19649	267.48325	3.12207	0.1434344	0.23237772	2.6202319	20	5 17.5	20.7
233257 2005 YZ_{155}	15.2	X	121.12507	20.17383	262.66726	8.21808	0.0206053	0.19312093	2.9642613	20	12 14.8	19.5
233258 2005 YA_{157}	16.1	X	87.99578	41.60177	109.45721	12.88731	0.1436293	0.22893381	2.6464443	20	6 9.3	19.8
233259 2005 YP_{163}	17.4	X	300.10363	121.62390	344.81588	2.23270	0.1498045	0.26532759	2.3985445	20	—	—
233260 2005 YH_{185}	16.9	X	215.11972	133.05146	134.86135	2.93826	0.1494266	0.27270309	2.3551000	20	—	—
233261 2005 YU_{191}	16.2	X	209.09817	201.32090	109.71520	7.10827	0.0615958	0.21235010	2.7824951	20	2 5.5	20.3
233262 2005 YD_{193}	17.4	X	207.46192	236.61073	313.54055	0.88423	0.1382175	0.25536385	2.4605362	20	12 2.4	20.8
233263 2005 YE_{193}	16.8	X	228.58365	204.84901	4.74109	0.63461	0.1326719	0.26271016	2.4144496	20	—	—
233264 2005 YP_{206}	16.1	X	148.29244	149.39322	277.18572	11.69702	0.1655218	0.22696095	2.6617583	20	4 23.7	20.5
233265 2005 YR_{210}	16.0	X	283.45256	91.78630	130.13998	12.79415	0.2163067	0.27291640	2.3538727	20	—	—
233266 2005 YT_{210}	16.3	X	187.43303	201.52151	347.50129	6.43986	0.1586085	0.25356208	2.4721786	20	11 5.2	20.2
233267 2005 YA_{211}	15.6	X	186.71690	121.53482	300.85170	21.41832	0.0463024	0.22901145	2.6458461	20	5 28.1	19.8
233268 2005 YT_{220}	15.9	X	214.38656	278.09422	87.17264	13.88822	0.1253286	0.22882454	2.6472867	20	4 20.3	20.2
233269 2005 YF_{253}	16.8	X	219.16184	129.63142	94.38462	4.99167	0.1294387	0.26437870	2.4042802	20	—	—
233270 2005 YF_{270}	16.8	X	232.87551	0.49740	140.98428	5.03846	0.0322200	0.25461541	2.4653557	20	11 17.5	19.9
233271 2006 AP_{1}	16.0	X	42.41581	26.82975	101.55173	16.56353	0.1205344	0.21269694	2.7794693	20	3 3.5	19.5
233272 2006 AY_{9}	16.7	X	209.24365	341.53956	202.22966	4.83581	0.1463597	0.25599716	2.4564765	20	11 26.2	20.2
233273 2006 AT_{10}	16.5	X	324.50181	125.93911	341.86191	6.32508	0.1332155	0.26496154	2.4007531	20	—	—
233274 2006 AK_{16}	15.7	X	118.23578	9.69851	145.12541	15.94549	0.0752725	0.22898145	2.6460772	20	7 10.7	19.6
233275 2006 AB_{37}	17.0	X	176.41262	204.89027	82.60258	2.47186	0.1848784	0.26873545	2.3782239	20	—	—
233276 2006 AK_{43}	17.4	X	5.97198	226.43647	169.17814	2.35606	0.2026872	0.26295203	2.4129688	20	—	—
233277 2006 AX_{43}	16.5	X	288.80919	129.51086	37.33269	6.99615	0.0937088	0.26843423	2.3800027	20	—	—
233278 2006 AC_{46}	17.2	X	185.21120	317.62020	274.87325	5.41769	0.1000144	0.26126087	2.4233704	20	—	—
233279 2006 AK_{48}	16.0	X	21.93657	288.80503	312.51447	11.45402	0.1487352	0.22440295	2.6819480	20	7 3.5	18.9
233280 2006 AZ_{60}	17.5	X	261.37778	334.95583	154.16208	3.01513	0.1680544	0.25706093	2.4496949	20	11 20.4	20.1

ELEMENTS AND OPPOSITION DATES IN 2020

ECLIPTIC AND EQUINOX 2000.0, EPOCH 2020 MAY 31.0 TT

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
233281 2006 AO_{77}	16.9	X	192.61931	7.16609	215.64879	1.51464	0.1713254	0.25778439	2.4451095	20	12 24.2	20.5
233282 2006 AP_{79}	16.2	X	49.60799	269.92992	275.49958	11.35811	0.2082603	0.22347542	2.6893637	20	6 9.7	19.3
233283 2006 AN_{85}	16.1	X	306.73554	33.22584	149.10740	10.78263	0.1320943	0.27096355	2.3651688	20	—	—
233284 2006 AC_{90}	16.9	X	121.78128	184.54946	339.31270	1.51021	0.1367285	0.22931441	2.6435153	20	8 2.0	20.8
233285 2006 AS_{90}	15.4	X	91.08063	176.09769	128.06232	10.11512	0.0904786	0.19131199	2.9829176	20	12 13.1	20.0
233286 2006 AS_{93}	16.4	X	134.82853	314.72484	334.25414	4.51386	0.1707380	0.25712575	2.4492832	20	—	—
233287 2006 AU_{93}	15.8	X	144.97096	119.92992	333.75325	13.92062	0.0528207	0.22289012	2.6940698	20	5 15.9	20.0
233288 2006 AV_{93}	15.7	X	17.99668	345.24120	335.35178	14.55096	0.1155801	0.24005118	2.5640913	20	10 8.8	18.9
233289 2006 AL_{96}	15.7	X	46.21769	358.11112	131.07197	10.16102	0.1053320	0.21393380	2.7687460	20	3 5.5	19.0
233290 2006 AM_{96}	16.5	X	251.52456	206.88695	205.19916	5.67227	0.2175741	0.24204743	2.5499739	20	7 11.9	20.2
233291 2006 AO_{97}	16.0	X	189.61558	340.88733	136.49005	13.30085	0.0569143	0.23888414	2.5724355	20	8 15.3	19.6
233292 Brianschmidt	17.0	X	148.63013	100.68861	102.55750	5.00149	0.1398462	0.24538674	2.5267871	20	10 21.3	21.0
233293 2006 BP_{1}	17.1	X	206.80323	280.64125	334.61908	0.76222	0.2037916	0.26484405	2.4014630	20	—	—
233294 2006 BX_{1}	16.4	X	310.66417	23.59729	313.29470	4.66956	0.1707645	0.23728812	2.5839576	20	7 1.8	19.0
233295 2006 BC_{7}	17.1	X	244.40021	151.52547	306.50249	4.18682	0.0688359	0.24754866	2.5120541	20	9 24.7	20.4
233296 2006 BO_{10}	17.4	X	265.58600	57.87775	14.70498	1.10445	0.0926509	0.24754247	2.5120960	20	9 18.2	20.2
233297 2006 BS_{20}	17.0	X	220.54263	67.70061	147.19734	2.85382	0.1525855	0.26116218	2.4239809	20	—	—
233298 2006 BU_{24}	17.1	X	229.43325	26.70436	177.05310	1.11131	0.1229849	0.26220497	2.4175498	20	—	—
233299 2006 BE_{29}	16.6	X	276.64487	40.68099	317.54710	8.03982	0.1752603	0.23361426	2.6109776	20	6 6.2	20.2
233300 2006 BS_{29}	17.3	X	317.96868	72.42992	334.03223	6.13249	0.0735719	0.25234562	2.4801172	20	11 3.9	20.2
233301 2006 BO_{39}	16.5	X	91.55821	96.55232	22.18135	2.47281	0.1419234	0.22214119	2.7001216	20	4 29.4	20.2
233302 2006 BK_{45}	16.7	X	288.88527	323.87684	154.84231	1.47780	0.0923397	0.18772210	3.0208265	20	12 9.0	20.4
233303 2006 BG_{46}	16.7	X	74.36924	135.24051	150.72212	5.99608	0.1479159	0.24439682	2.5336056	20	11 19.9	20.4
233304 2006 BW_{56}	16.3	X	122.82141	232.20168	140.19871	4.41513	0.1078158	0.20929760	2.8094839	20	1 20.4	20.3
233305 2006 BD_{69}	16.3	X	41.88529	55.43368	101.35384	8.13295	0.0221283	0.21822564	2.7323240	20	3 30.4	20.0
233306 2006 BL_{72}	15.9	X	307.61319	150.82280	88.57173	5.71343	0.0406883	0.21478284	2.7614446	20	3 6.9	19.6
233307 2006 BP_{72}	16.9	X	202.64043	113.58065	20.14077	4.05486	0.1177422	0.24467667	2.5316734	20	9 17.4	20.7
233308 2006 BP_{78}	15.9	X	179.99441	352.08916	131.54723	13.16611	0.1389576	0.23625729	2.5914683	20	8 8.9	20.0
233309 2006 BA_{79}	16.9	X	160.38507	19.80098	109.90398	5.58105	0.1714284	0.23383595	2.6093271	20	7 28.7	21.2
233310 2006 BR_{87}	16.8	X	150.17011	249.68259	356.51726	2.43517	0.1287354	0.25296633	2.4760585	20	12 13.4	20.6
233311 2006 BC_{91}	16.5	X	126.44177	148.58795	159.86724	6.67681	0.1188899	0.26046544	2.4283017	20	—	—
233312 2006 BH_{129}	16.1	X	15.28004	20.93204	136.89792	4.60926	0.0385149	0.21182564	2.7870860	20	2 21.4	19.5
233313 2006 BM_{129}	17.1	X	221.52143	242.85498	149.46533	2.72839	0.1068130	0.22988157	2.6391654	20	5 27.4	21.0
233314 2006 BL_{130}	16.8	X	318.08659	34.86994	283.28512	1.06975	0.0852692	0.22881686	2.6473460	20	6 27.9	20.0
233315 2006 BW_{132}	17.0	X	130.32285	218.54390	250.88250	0.76085	0.0632375	0.22318147	2.6917246	20	5 24.7	20.7
233316 2006 BO_{135}	16.7	X	296.38645	230.99649	133.64721	15.20125	0.1882237	0.24063490	2.5599431	20	7 14.0	19.6
233317 2006 BW_{144}	15.6	X	120.74908	306.40643	259.19795	10.44054	0.1321155	0.23932236	2.5692943	20	9 18.4	19.7
233318 2006 BZ_{165}	16.8	X	210.17494	83.88918	336.83666	2.63977	0.2175008	0.23471803	2.6027857	20	6 13.8	21.1
233319 2006 BY_{168}	16.3	X	225.63161	222.01278	144.93462	6.98694	0.0507235	0.22180827	2.7028227	20	5 5.8	20.2
233320 2006 BT_{183}	17.3	X	134.01790	61.08827	161.46296	4.50701	0.2112577	0.23838398	2.5760325	20	10 30.6	21.6
233321 2006 BP_{194}	16.9	X	3.10954	262.95147	156.39208	5.10632	0.2166197	0.26504024	2.4002778	20	—	—
233322 2006 BD_{199}	17.0	X	80.66877	329.38661	316.22045	5.12345	0.1957445	0.24455133	2.5325384	20	11 27.7	21.0
233323 2006 BL_{212}	16.6	X	28.83016	306.53216	345.00425	7.26928	0.1906225	0.23443730	2.6048631	20	10 1.5	19.6
233324 2006 BP_{219}	16.0	X	156.46519	337.46732	124.88390	12.17726	0.1532631	0.22864128	2.6487011	20	6 20.0	20.3
233325 2006 BF_{223}	16.8	X	191.07923	72.40064	149.95507	2.91383	0.1488004	0.25508296	2.4623423	20	12 23.8	20.4
233326 2006 BU_{247}	15.8	X	100.02572	191.65613	131.43861	5.40815	0.0407644	0.19012031	2.9953692	20	—	—
233327 2006 BM_{251}	17.0	X	215.55526	259.82408	155.13068	2.59151	0.1348374	0.23299141	2.6156288	20	6 16.9	21.0
233328 2006 BE_{255}	16.9	X	225.10603	269.66120	156.79582	2.96842	0.1134502	0.23669677	2.5882595	20	7 14.1	20.6
233329 2006 BC_{266}	15.8	X	256.10727	318.73020	191.64747	10.24678	0.1605158	0.17945669	3.1128841	20	11 23.0	20.2
233330 2006 BB_{279}	16.7	X	7.08151	98.48799	231.45484	0.56355	0.1722703	0.24019838	2.5630436	20	10 19.4	19.1
233331 2006 BP_{282}	17.2	X	165.97315	139.82177	2.78165	4.29335	0.0988723	0.23726814	2.5841027	20	8 20.9	21.0
233332 2006 CS_{10}	15.5	X	164.40030	306.12332	148.23117	22.23615	0.0408359	0.22579365	2.6709242	20	6 16.9	19.8
233333 2006 CB_{26}	17.1	X	357.73666	35.52137	353.98615	2.17756	0.2130230	0.25953590	2.4340963	20	—	—
233334 2006 CO_{30}	16.9	X	1.79381	245.82129	184.97279	4.65222	0.0869723	0.26363670	2.4087892	20	—	—
233335 2006 CN_{40}	15.9	X	166.68797	80.51772	358.17494	9.14077	0.0599579	0.22420925	2.6834924	20	5 24.7	19.9
233336 2006 CK_{50}	16.6	X	89.81834	52.81483	137.49586	3.54217	0.0248935	0.23146519	2.6271140	20	7 15.6	20.1
233337 2006 CL_{59}	15.8	X	81.47975	197.05521	341.12448	7.96675	0.1242709	0.22437284	2.6821878	20	7 4.1	19.5
233338 2006 CM_{59}	16.1	X	137.35353	72.63942	219.92349	0.42822	0.1701955	0.25620187	2.4551678	20	—	—
233339 2006 DT	16.1	X	51.85293	159.07104	107.62675	3.31100	0.0745270	0.23358015	2.6112318	20	9 16.3	19.5
233340 2006 DA_{10}	16.0	X	5.86584	194.66468	114.32810	6.70966	0.1584198	0.23423972	2.6063277	20	9 16.5	18.7
233341 2006 DK_{10}	17.3	X	224.52997	356.97623	78.11601	3.54207	0.2048758	0.23939856	2.5687491	20	7 16.8	21.4
233342 2006 DQ_{10}	15.6	X	338.45874	146.79507	132.92146	13.73107	0.1021597	0.22562840	2.6722281	20	6 7.9	18.9
233343 2006 DH_{13}	16.5	X	108.69996	227.37017	217.95783	3.12240	0.1056821	0.21710861	2.7416879	20	4 2.1	20.2
233344 2006 DF_{19}	16.4	X	306.73596	200.81331	87.23356	3.28732	0.0422022	0.22210818	2.7003891	20	5 6.1	19.9
233345 2006 DU_{20}	16.2	X	25.00035	340.86062	318.44065	5.47371	0.0941558	0.23929704	2.5694756	20	9 21.8	19.3
233346 2006 DL_{28}	16.6	X	287.48040	279.08676	142.03985	2.81119	0.0558627	0.24273315	2.5451692	20	10 10.4	19.5
233347 2006 DM_{32}	16.4	X	111.56615	339.34949	168.12029	2.78023	0.1566868	0.22558445	2.6725752	20	7 2.0	20.3
233348 2006 DW_{33}	16.4	X	119.92581	350.51649	159.69012	3.71826	0.0373193	0.22567585	2.6718536	20	7 2.2	20.0
233349 2006 DM_{41}	15.5	X	93.40187	271.34764	288.08079	13.74914	0.0530494	0.23255835	2.6188749	20	8 3.3	19.1
233350 2006 DT_{61}	15.6	X	105.79351	73.93803	158.25525	13.25235	0.2197073	0.23026573	2.6362293	20	10 20.6	20.1
233351 2006 DU_{61}	15.4	X	105.10967	188.86977	57.61733	9.35840	0.2178932	0.23409633	2.6073919	20	11 4.3	19.8
233352 2006 DJ_{71}	16.4	X	63.89656	280.79639	344.34755	7.85052	0.0975798	0.23674108	2.5879366	20	9 30.4	19.8
233353 2006 DX_{71}	16.7	X	302.39616	268.06933	121.68500	2.40259	0.0510168	0.23797112	2.5790111	20	9 18.9	19.7
233354 2006 DA_{72}	16.6	X	26.83642	316.52197	15.95918	2.43387	0.0485587	0.24255049	2.5464468	20	11 4.6	19.9
233355 2006 DX_{83}	17.2	X	146.67908	143.13843	308.96558	1.90119	0.1572104	0.22413950	2.6840491	20	5 27.5	21.5
233356 2006 DQ_{86}	17.2	X	151.50393	120.57346	109.07661	2.01055	0.2219690	0.24408502	2.5357628	20	11 21.4	21.5
233357 2006 DR_{92}	15.3	X	117.73746	228.36982	10.85758	14.63879	0.2254831	0.23670031	2.5882337	20	11 1.2	19.8
233358 2006 DT_{94}	16.4	X	329.40314	218.07751	22.80695	2.67969	0.0398305	0.21207434	2.7849066	20	4 4.9	19.9
233359 2006 DA_{96}	16.7	X	136.94128	152.25450	4.19891	5.96292	0.1165849	0.22964807	2.6409541	20	8 8.7	20.8
233360 2006 DE_{97}	16.6	X	112.31259	120.45530	51.91362	3.38114	0.0390385	0.22830672	2.6512881	20	7 23.9	20.2

Planet		H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
		m		°	°	°	°		°				
233361	2006 DO_{106}	16.8	X	287.80461	217.63091	63.97645	1.02110	0.0286477	0.21406439	2.7676198	20	4 3.8	20.4
233362	2006 DZ_{117}	17.3	X	122.93855	136.95587	13.50447	4.45682	0.2189051	0.22717914	2.6600538	20	7 24.0	21.7
233363	2006 DA_{124}	16.9	X	258.94651	157.19128	183.16213	2.48722	0.0991031	0.22200579	2.7012193	20	5 3.5	20.6
233364	2006 DE_{124}	16.6	X	348.96092	304.96169	325.76845	2.79979	0.0556405	0.22460816	2.6803141	20	6 12.0	19.8
233365	2006 DT_{124}	16.9	X	195.41783	230.20563	184.36810	1.85753	0.0817581	0.22536784	2.6742875	20	5 28.7	20.9
233366	2006 DH_{138}	16.5	X	187.94284	313.57094	91.43862	3.62866	0.0996443	0.22222203	2.6994667	20	5 8.7	20.6
233367	2006 DX_{144}	16.8	X	194.69320	74.81394	13.30579	2.77263	0.1481197	0.23281004	2.6169871	20	7 8.3	21.0
233368	2006 DH_{152}	16.3	X	137.14668	272.09552	186.49959	6.59186	0.0858410	0.22022387	2.7157708	20	5 22.0	20.3
233369	2006 DU_{152}	16.9	X	351.06882	280.99859	356.37581	1.25653	0.1020775	0.22210808	2.7003899	20	6 24.4	19.8
233370	2006 DL_{161}	17.3	X	129.46733	214.22858	350.67274	2.48069	0.0626464	0.23903380	2.5713617	20	9 28.3	20.7
233371	2006 DM_{169}	15.8	X	256.53292	166.13643	150.80394	10.83514	0.1308947	0.21324294	2.7747229	20	3 30.9	20.0
233372	2006 DQ_{182}	16.9	X	78.08559	21.45691	280.02610	1.35985	0.0528205	0.24620909	2.5211576	20	12 1.9	20.3
233373	2006 DM_{188}	16.0	X	207.60252	245.39676	152.85105	4.33319	0.0997295	0.22226669	2.6991051	20	5 21.0	20.0
233374	2006 DW_{188}	17.2	X	210.10960	103.69586	27.00673	3.51500	0.1121088	0.24102360	2.5571901	20	9 21.8	20.8
233375	2006 DH_{190}	16.4	X	302.19833	215.57854	148.12540	4.78510	0.0575698	0.23135113	2.6279774	20	8 9.9	19.4
233376	2006 DY_{193}	17.2	X	321.46146	210.62667	151.39080	2.49429	0.1261255	0.24115252	2.5562786	20	9 4.9	19.8
233377	2006 DZ_{197}	15.5	X	98.73744	266.56035	290.29518	15.39208	0.1507101	0.23127946	2.6285203	20	8 15.9	19.6
233378	2006 DP_{199}	16.2	X	186.47999	14.75063	149.33457	15.85055	0.1162654	0.24265470	2.5457177	20	10 12.4	20.2
233379	2006 DH_{210}	16.9	X	201.82434	293.11596	146.01279	3.08436	0.0990341	0.22917692	2.6445725	20	7 5.7	20.8
233380	2006 DJ_{212}	16.4	X	178.48989	93.66462	321.78992	3.74317	0.1038850	0.22113835	2.7082786	20	5 9.8	20.7
233381	2006 DY_{214}	17.0	X	57.71199	78.31197	6.23988	5.69306	0.0374960	0.20038201	2.8922127	20	1 20.3	20.9
233382	2006 DE_{217}	16.7	X	36.67218	252.14662	340.32923	2.71158	0.0558461	0.22536733	2.6742915	20	7 3.3	20.0
233383	Assisneto	17.3	X	63.26323	285.33782	345.63968	5.45531	0.1866541	0.23788556	2.5796295	20	10 19.9	20.9
233384	2006 EG_{5}	16.2	X	224.10594	218.34410	120.13824	4.23925	0.1282421	0.21476078	2.7616337	20	3 23.6	20.5
233385	2006 EH_{10}	15.6	X	355.10790	231.38273	164.25467	12.31831	0.1409368	0.18211291	3.0825413	20	12 8.3	19.5
233386	2006 EH_{19}	16.6	X	352.50740	73.02889	182.38626	4.28797	0.0363482	0.21933345	2.7231160	20	5 28.5	20.1
233387	2006 EP_{23}	17.4	X	188.85161	117.93363	337.43841	1.01578	0.1675683	0.23403899	2.6078178	20	7 10.9	21.4
233388	2006 EP_{27}	17.0	X	32.10808	121.31934	136.53051	1.43552	0.0850685	0.22713686	2.6603839	20	8 4.8	20.2
233389	2006 EL_{33}	16.4	X	194.47287	245.37551	192.98850	6.04313	0.0818809	0.22864205	2.6486951	20	6 27.2	20.4
233390	2006 EL_{34}	15.6	X	278.05204	53.27849	133.69524	4.73549	0.1294030	0.19290671	2.9664554	20	—	—
233391	2006 EU_{47}	16.2	X	336.73257	185.59774	146.18811	15.12041	0.1929112	0.23384465	2.6092624	20	8 16.7	18.4
233392	2006 FP_{6}	16.2	X	158.41092	269.51834	171.51595	13.91877	0.1383805	0.22424081	2.6832405	20	5 26.7	20.7
233393	2006 FP_{17}	16.5	X	201.36659	106.88717	193.88534	11.84881	0.3254984	0.25908055	2.4369475	20	1 12.1	21.2
233394	2006 FT_{17}	16.3	X	127.37750	309.66204	174.92706	4.38557	0.1034936	0.21981662	2.7191241	20	6 14.5	20.3
233395	2006 FH_{22}	16.8	X	202.89145	94.36720	22.15490	3.21797	0.1510501	0.23722552	2.5844122	20	8 23.0	20.7
233396	2006 FJ_{26}	16.5	X	197.23894	292.16880	191.16372	7.76551	0.1054607	0.23451558	2.6042834	20	8 25.8	20.5
233397	2006 FK_{26}	16.7	X	59.33150	19.00811	180.97331	4.80466	0.0994574	0.22024770	2.7155749	20	6 27.5	20.2
233398	2006 FW_{29}	16.0	X	325.32514	286.88904	38.10640	6.63818	0.0795404	0.22253520	2.6969335	20	7 21.9	19.3
233399	2006 FN_{34}	15.0	X	236.42644	345.93628	213.31763	21.66829	0.2992685	0.18371184	3.0646293	20	12 9.5	19.9
233400	2006 FK_{37}	15.5	X	21.69051	296.09266	357.46242	11.14559	0.1910467	0.22664794	2.6642084	20	9 22.7	18.4
233401	2006 FF_{39}	16.0	X	329.39560	193.08928	160.40033	7.84717	0.1931584	0.23795085	2.5791576	20	9 4.4	18.1
233402	2006 FL_{42}	16.6	X	309.37431	214.99437	154.76376	2.82403	0.0607445	0.23137087	2.6278280	20	8 29.6	19.5
233403	2006 FF_{45}	17.5	X	311.18023	324.54463	185.53273	5.19933	0.1759912	0.26305988	2.4123092	20	—	—
233404	2006 FT_{46}	15.8	X	26.52118	84.03937	160.12962	11.20370	0.2302693	0.21987211	2.7186666	20	7 25.3	18.7
233405	2006 FO_{48}	16.6	X	123.74525	83.91038	154.03420	14.74148	0.1697518	0.24110246	2.5566324	20	11 11.7	21.0
233406	2006 FX_{52}	15.9	X	138.44493	341.30603	207.01188	5.25114	0.0310612	0.23260186	2.6185483	20	9 13.9	19.6
233407	2006 GS_{4}	16.7	X	195.93359	26.61956	106.74475	3.44139	0.0724081	0.23680012	2.5875064	20	9 12.9	20.3
233408	2006 GY_{11}	16.0	X	48.12712	63.86607	178.17562	8.17184	0.2018401	0.22361697	2.6882286	20	8 24.0	19.4
233409	2006 GJ_{17}	16.9	X	72.58247	89.04297	107.69448	2.17310	0.0367905	0.22221986	2.6994843	20	7 2.4	20.3
233410	2006 GQ_{19}	15.7	X	278.24212	344.34206	174.24965	5.11276	0.1196398	0.18572324	3.0424623	20	—	—
233411	2006 GM_{21}	16.8	X	75.76270	266.71169	357.08256	5.02786	0.1333493	0.23568602	2.5956542	20	10 18.4	20.4
233412	2006 GL_{30}	16.2	X	254.29644	179.59533	105.27035	3.27410	0.0242302	0.20312382	2.8661273	20	2 28.6	20.2
233413	2006 GH_{38}	16.1	X	13.37929	52.66786	146.31721	12.14732	0.1342763	0.21066012	2.7973566	20	4 17.9	19.3
233414	2006 GE_{40}	15.9	X	109.09650	233.05232	358.66778	7.74562	0.2338413	0.23416407	2.6068891	20	10 18.6	20.3
233415	2006 GA_{42}	15.5	X	75.72795	121.29072	46.77647	15.00602	0.1105937	0.21797331	2.7344322	20	6 6.8	19.3
233416	2006 GJ_{47}	16.1	X	50.89672	105.48440	51.54630	8.43364	0.1645681	0.21204745	2.7851420	20	4 26.8	19.2
233417	2006 GE_{50}	15.4	X	10.08156	293.58204	289.78684	11.56439	0.1122279	0.21526389	2.7573291	20	5 7.7	18.8
233418	2006 GO_{50}	16.5	X	129.38193	250.52147	345.81086	6.99320	0.2606766	0.23754644	2.5820840	20	11 9.2	21.1
233419	2006 GZ_{52}	16.2	X	56.38787	172.33834	37.81735	10.82551	0.1231499	0.22165157	2.7040964	20	7 13.3	19.8
233420	2006 HE	16.6	X	147.56915	218.69914	208.76326	3.38121	0.0841146	0.21408698	2.7674252	20	4 22.7	20.5
233421	2006 HW_{1}	15.5	X	109.16976	36.05718	90.62754	6.05066	0.0610375	0.21613918	2.7498798	20	5 22.1	19.2
233422	2006 HS_{7}	15.9	X	92.03741	118.14388	22.92951	12.51034	0.1230034	0.21574453	2.7532323	20	5 24.2	19.8
233423	2006 HW_{7}	16.2	X	114.14176	129.80815	70.47288	14.14832	0.2156867	0.23037843	2.6353694	20	9 23.1	20.8
233424	2006 HP_{9}	16.0	X	183.05350	165.69113	126.70133	6.79585	0.1660177	0.18749908	3.0232214	20	—	—
233425	2006 HR_{12}	16.8	X	235.32885	128.21715	189.81788	2.59495	0.0164923	0.20974537	2.8054839	20	3 16.5	20.7
233426	2006 HX_{15}	16.8	X	92.21951	330.38477	166.93426	4.48198	0.0137618	0.21305343	2.7763680	20	5 7.6	20.6
233427	2006 HQ_{31}	16.6	X	352.96899	238.66551	351.95583	4.33349	0.0545376	0.21491837	2.7602835	20	4 22.3	20.0
233428	2006 HV_{31}	15.4	X	189.05529	207.78239	10.04068	3.66161	0.1252620	0.17898083	3.1183991	20	12 3.1	20.3
233429	2006 HN_{40}	15.7	X	141.26977	323.98785	221.08960	17.67511	0.1747274	0.23262768	2.6183546	20	9 13.4	20.3
233430	2006 HZ_{41}	15.6	X	237.02740	120.26065	135.16296	9.99853	0.0257380	0.19082707	2.9879688	20	1 3.9	19.9
233431	2006 HU_{44}	16.1	X	197.99954	252.10851	53.19050	2.64380	0.0456337	0.19805868	2.9147868	20	1 19.1	20.4
233432	2006 HS_{53}	15.4	X	114.15282	151.17982	71.50846	14.65227	0.1843213	0.23232938	2.6205953	20	10 17.8	19.9
233433	2006 HY_{54}	15.9	X	90.53525	58.95073	155.01514	11.60974	0.1186112	0.22566056	2.6719743	20	8 30.4	19.5
233434	2006 HZ_{55}	15.9	X	191.55587	42.95547	71.85177	13.23829	0.2054427	0.23201815	2.6229383	20	8 9.3	20.5
233435	2006 HK_{58}	16.9	X	50.67450	64.27804	154.05257	5.46395	0.0963285	0.21941943	2.7224046	20	7 9.4	20.4
233436	2006 HN_{65}	16.3	X	158.46004	247.08663	199.92316	4.04204	0.0585153	0.21439767	2.7647509	20	5 28.9	20.4
233437	2006 HF_{69}	15.9	X	300.00764	118.32559	197.24116	3.59362	0.0952158	0.21306437	2.7762729	20	5 25.9	19.4
233438	2006 HU_{70}	16.0	X	123.31377	199.67554	136.44117	2.11736	0.1774037	0.18713932	3.0270948	20	—	—
233439	2006 HJ_{72}	15.4	X	347.11447	279.84219	126.13956	6.51102	0.1361838	0.17156566	3.2076167	20	12 4.2	19.3
233440	2006 HZ_{73}	16.6	X	55.53616	44.15477	181.39311	5.41190	0.0536840	0.22021220	2.7158668	20	7 19.4	20.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
233441 2006 HE_{78}	15.5	X	334.99634	40.92916	24.35067	20.53209	0.1663919	0.18220455	3.0815076	20	12 7.2	19.3
233442 2006 HR_{79}	16.3	X	306.94976	96.26469	206.99574	3.18224	0.0672502	0.21318421	2.7752324	20	5 23.2	19.7
233443 2006 HC_{87}	16.5	X	170.48407	234.72742	120.93664	3.00534	0.0532438	0.20277928	2.8693730	20	2 18.2	20.7
233444 2006 HP_{93}	15.9	X	287.27421	171.78872	179.91292	14.36402	0.1761430	0.21595341	2.7514567	20	6 13.1	19.8
233445 2006 HT_{102}	15.6	X	264.91624	314.75499	215.33932	11.22761	0.1785392	0.18246407	3.0785850	20	12 24.7	19.8
233446 2006 HQ_{106}	16.1	X	118.54751	345.79034	121.04758	5.30612	0.1678368	0.21449383	2.7639245	20	5 20.7	20.4
233447 2006 HU_{107}	16.1	X	39.66546	67.93343	98.75261	5.47188	0.1163743	0.20879762	2.8139672	20	4 16.7	19.4
233448 2006 HY_{108}	15.7	X	3.00518	170.59828	71.14522	15.36066	0.1565235	0.21241596	2.7819199	20	5 26.1	18.5
233449 2006 HS_{110}	15.6	X	285.83195	60.64890	53.57127	14.63894	0.2912641	0.18202694	3.0835118	20	11 1.9	19.1
233450 2006 HH_{111}	16.2	X	36.75458	284.45359	347.14535	7.50494	0.2253178	0.22304279	2.6928402	20	9 20.9	19.4
233451 2006 HR_{115}	16.0	X	157.05270	95.39655	39.40820	13.37645	0.1477001	0.22743603	2.6580504	20	8 5.1	20.5
233452 2006 JT_{2}	16.5	X	257.60325	277.74014	1.55708	1.69250	0.0446594	0.20156698	2.8808665	20	2 22.6	20.4
233453 2006 JV_{15}	16.6	X	246.20700	240.38499	40.80538	2.24929	0.0396151	0.19876868	2.9078416	20	2 13.2	20.7
233454 2006 JD_{16}	16.7	X	112.22336	91.26752	41.53861	0.72060	0.0116865	0.21479597	2.7613320	20	5 26.3	20.4
233455 2006 JC_{21}	16.0	X	129.93918	300.60812	174.56088	9.06895	0.1118906	0.21437784	2.7649214	20	6 6.7	20.3
233456 2006 JS_{38}	15.9	X	234.13205	113.06339	5.82047	13.45522	0.1056672	0.23933073	2.5692345	20	10 3.6	19.4
233457 2006 JM_{42}	15.8	X	175.03905	175.86641	119.81481	3.40114	0.1219914	0.18474046	3.0532430	20	—	—
233458 2006 JW_{55}	15.9	X	136.05384	39.92577	113.27330	10.40488	0.0544290	0.22463023	2.6801386	20	7 28.7	19.8
233459 2006 JJ_{62}	15.4	X	70.84060	146.35561	149.73964	16.15094	0.1743057	0.17900216	3.1181514	20	11 22.2	20.4
233460 2006 KL_{2}	16.5	X	46.69533	287.83929	341.47114	2.30046	0.1700233	0.22597591	2.6694879	20	9 24.3	19.9
233461 2006 KF_{10}	16.2	X	45.91323	146.26708	229.73223	1.89589	0.0647386	0.17529332	3.1619802	20	—	—
233462 2006 KV_{13}	15.2	X	170.91389	137.63716	146.73693	10.57547	0.0517680	0.18399272	3.0615096	20	—	—
233463 2006 KF_{16}	15.2	X	197.29820	143.65740	133.47442	17.31364	0.2286696	0.18296249	3.0729914	20	—	—
233464 2006 KD_{18}	15.9	X	262.04160	320.90666	180.48713	15.41374	0.1316080	0.17839723	3.1251964	20	11 24.4	20.4
233465 2006 KZ_{34}	16.3	X	92.12642	29.09898	81.55002	3.18153	0.0117806	0.20389798	2.8588680	20	4 3.2	20.1
233466 2006 KK_{50}	16.8	X	60.80572	354.29576	106.25356	3.24615	0.0656726	0.19720725	2.9231704	20	2 16.0	20.5
233467 2006 KK_{73}	16.2	X	67.77900	17.80161	135.88361	9.30532	0.0819133	0.20831707	2.8182930	20	5 8.7	20.0
233468 2006 KL_{79}	16.2	X	92.29179	93.14528	43.32238	10.70885	0.1886889	0.21566771	2.7538860	20	5 29.4	20.2
233469 2006 KQ_{89}	16.3	X	96.78741	118.93424	91.98573	15.22558	0.1642040	0.22602133	2.6691302	20	9 14.9	20.6
233470 2006 KT_{109}	16.0	X	292.34606	190.37454	251.73801	5.79059	0.1412083	0.17224136	3.1992223	20	10 17.5	20.2
233471 2006 KM_{110}	16.1	X	356.95462	128.89206	303.42379	2.75387	0.0579169	0.17916283	3.1162870	20	—	—
233472 Moorcroft	16.4	X	137.65589	316.21060	62.89696	1.73696	0.0622357	0.19295225	2.9659886	20	2 12.0	20.5
233473 2006 LJ_{7}	15.4	X	205.35630	159.04384	112.46967	4.42579	0.1770737	0.18341143	3.0679748	20	—	—
233474 2006 MK_{4}	16.0	X	75.03793	359.09904	166.02763	9.61087	0.0768020	0.21214278	2.7843076	20	5 31.6	19.9
233475 2006 PQ_{25}	15.1	X	162.27149	164.34102	141.00422	11.92747	0.0710964	0.17151803	3.2082105	20	—	—
233476 2006 QJ_{39}	15.2	X	150.42716	177.39635	119.70479	6.30521	0.0956941	0.16817404	3.2505991	20	—	—
233477 2006 RV_{78}	15.2	X	326.30995	355.99864	179.67489	17.34247	0.0642381	0.17113959	3.2129384	20	1 10.9	20.0
233478 2006 SD_{7}	16.8	X	28.29326	245.13948	134.78015	31.13568	0.1850198	0.36834596	1.9273716	20	—	—
233479 2006 SV_{16}	14.8	X	148.27275	193.03575	192.03410	21.25083	0.0846949	0.17626214	3.1503830	20	3 2.2	19.7
233480 2006 SF_{20}	15.1	X	283.56697	285.95757	299.79142	11.14440	0.0412648	0.17487281	3.1670472	20	1 22.8	19.4
233481 2006 SB_{29}	15.4	X	13.90371	204.80650	271.56167	4.13195	0.1387283	0.17287603	3.1913874	20	1 1.4	19.3
233482 2006 SD_{147}	15.5	X	284.82139	54.54394	192.43158	6.47290	0.0980448	0.17760203	3.1345180	20	2 8.9	20.2
233483 2006 SC_{352}	15.1	X	151.53426	142.72058	214.96702	9.67037	0.0503137	0.17190140	3.2034389	20	1 30.7	20.0
233484 2006 SF_{360}	15.0	X	191.97958	82.97777	228.89267	5.61764	0.0922390	0.17002615	3.2269500	20	1 23.1	20.0
233485 2006 TB_{74}	15.5	X	209.23683	155.13337	191.47197	17.26015	0.1888592	0.18099530	3.0952176	20	3 16.7	20.8
233486 2006 UF_{1}	15.4	X	181.65653	62.13221	291.95947	8.23546	0.0172252	0.18057344	3.1000365	20	2 25.8	19.9
233487 2006 XA_{19}	15.2	X	138.39589	267.77390	94.14148	13.74991	0.2199689	0.23383411	2.6093408	20	2 5.8	19.3
233488 2006 YG	17.1	X	326.71333	135.37920	284.30670	16.88491	0.0930362	0.35178095	1.9874117	20	—	—
233489 2007 AM_{25}	16.8	X	53.36259	27.43512	317.10115	17.29959	0.0867213	0.35423756	1.9782127	20	—	—
233490 2007 BT_{80}	17.7	X	348.47969	272.77713	329.40381	2.36294	0.1004727	0.31325807	2.1471771	20	4 22.6	19.3
233491 2007 CL_{5}	17.8	X	9.96358	249.61514	325.00825	7.31752	0.1007018	0.31078610	2.1585478	20	4 17.2	19.8
233492 2007 CK_{21}	17.7	X	34.92874	223.12810	233.55355	3.53252	0.1177514	0.29693176	2.2251790	20	—	—
233493 2007 CJ_{23}	16.8	X	220.06178	133.05272	116.46841	7.94081	0.0519436	0.29059953	2.2573875	20	—	—
233494 2007 CW_{26}	17.2	X	348.96548	219.93217	340.32066	6.59777	0.0509997	0.30033962	2.2083147	20	2 26.6	19.4
233495 2007 DF_{48}	15.3	X	253.22481	358.05800	342.30295	16.85839	0.1688409	0.23713056	2.5851021	20	4 9.9	19.6
233496 2007 DS_{50}	17.5	X	352.16494	243.10186	330.21429	2.68651	0.1300458	0.30482421	2.1866020	20	3 11.8	19.5
233497 2007 DQ_{90}	18.0	X	264.42553	179.12299	349.79702	5.58518	0.1610398	0.27908337	2.3190676	20	—	—
233498 2007 EC_{14}	17.9	X	44.31404	228.49468	5.31887	3.45720	0.1399411	0.31606534	2.1344442	20	8 9.2	19.8
233499 2007 ER_{15}	17.5	X	300.81287	5.90889	140.67484	3.10614	0.1613178	0.28015317	2.3131601	20	—	—
233500 2007 EV_{23}	17.2	X	240.08560	84.48637	84.09861	3.30009	0.1420382	0.27113756	2.3641567	20	12 19.6	19.7
233501 2007 EQ_{27}	17.2	X	342.03446	311.86303	321.36839	3.55886	0.1074826	0.31362280	2.1455121	20	6 1.3	18.8
233502 2007 EC_{32}	17.5	X	266.55861	198.45753	105.60075	2.21383	0.1469837	0.30416517	2.1897594	20	3 14.6	20.3
233503 2007 EM_{51}	16.0	X	192.34632	315.86831	39.21864	2.94925	0.0700744	0.22070508	2.7118219	20	3 11.8	20.1
233504 2007 EA_{75}	17.5	X	120.67014	107.64859	336.24609	2.21868	0.1137458	0.30527120	2.1844670	20	4 10.1	20.3
233505 2007 EK_{82}	16.9	X	324.40809	189.02112	29.81667	8.13899	0.1692647	0.29399656	2.2399649	20	1 31.6	19.6
233506 2007 EW_{102}	16.1	X	98.33575	268.01436	108.19453	4.60797	0.1041645	0.20998433	2.8033552	20	—	—
233507 2007 ED_{142}	17.3	X	339.06129	116.37799	321.41261	3.78406	0.2029974	0.27694639	2.3309820	20	—	—
233508 2007 ET_{160}	17.3	X	266.78993	268.02236	331.78221	5.02252	0.1353945	0.28809945	2.2704282	20	—	—
233509 2007 EB_{161}	16.7	X	79.20959	185.49512	329.01050	5.99594	0.0505434	0.30714698	2.1755641	20	5 12.7	19.1
233510 2007 EK_{168}	17.3	X	323.56168	74.48080	164.07331	4.07150	0.1327327	0.29854684	2.2171465	20	2 29.6	19.7
233511 2007 EE_{181}	17.6	X	245.26510	24.08309	219.28416	1.21714	0.1091686	0.28269992	2.2992468	20	—	—
233512 2007 EU_{184}	17.1	X	0.30480	257.04891	287.28376	5.59645	0.0767359	0.29970058	2.2114527	20	2 16.4	19.3
233513 2007 EM_{204}	16.8	X	238.37220	125.87617	132.93404	6.48157	0.0828166	0.28819842	2.2699083	20	—	—
233514 2007 EY_{210}	17.7	X	14.01521	199.38725	346.25145	2.56057	0.0403453	0.30525058	2.1845654	20	3 15.8	19.8
233515 2007 FC_{13}	17.0	X	329.07350	196.00925	317.30943	6.79143	0.0355714	0.28680486	2.2772553	20	—	—
233516 2007 FZ_{32}	16.9	X	313.50099	195.53722	35.09398	3.24503	0.0774972	0.29448906	2.2374668	20	2 14.6	19.4
233517 2007 GP_{14}	16.9	X	14.44398	272.39844	175.96252	6.49753	0.0549977	0.27972360	2.3155277	20	—	—
233518 2007 GT_{27}	14.8	X	14.56495	253.04475	79.20980	16.22347	0.0820163	0.17854471	3.1234752	20	10 18.2	19.2
233519 2007 GX_{29}	16.2	X	69.13750	6.88810	196.24348	8.69359	0.0997512	0.23853814	2.5749225	20	7 15.5	19.7
233520 2007 GW_{40}	17.5	X	204.52512	84.03830	197.74877	2.14594	0.0563586	0.28029777	2.3123644	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
233521 2007 GU_{44}	17.7	X	306.61711	3.10510	146.02531	1.74175	0.1028689	0.27719539	2.3295858	20	—	—
233522 Moye	16.8	X	89.24836	186.22557	116.35817	7.14033	0.1585825	0.25805833	2.4433788	20	12 26.9	20.7
233523 2007 HD_{7}	16.6	X	57.13358	336.77220	232.08165	1.98080	0.1335082	0.23658476	2.5890764	20	7 13.0	19.7
233524 2007 HK_{11}	17.6	X	243.81070	106.61028	165.35536	3.32679	0.2382725	0.28326834	2.2961699	20	1 7.4	21.5
233525 2007 HM_{14}	16.8	X	320.98177	52.80932	268.77398	1.00802	0.1289403	0.23481623	2.6020600	20	7 3.3	19.5
233526 2007 HA_{26}	17.7	X	298.09201	120.93237	77.82638	4.27749	0.1093125	0.28364556	2.2941337	20	—	—
233527 2007 HU_{31}	16.5	X	215.99557	43.44477	258.97092	3.36129	0.0468294	0.21211439	2.7845560	20	1 31.9	20.7
233528 2007 HY_{32}	14.9	X	221.62675	192.42805	222.89116	13.23204	0.2364269	0.24075438	2.5590960	20	6 15.5	19.3
233529 2007 HJ_{35}	17.2	X	204.73705	189.79217	4.25764	2.40838	0.0476605	0.26384203	2.4075393	20	12 18.3	20.2
233530 2007 HP_{43}	15.2	X	358.34539	299.21317	61.98076	10.25319	0.1000181	0.17855991	3.1232979	20	10 27.1	19.2
233531 2007 HM_{61}	17.1	X	29.29391	285.57376	141.91539	6.67584	0.0747498	0.27395876	2.3478982	20	—	—
233532 2007 HA_{68}	16.5	X	1.33472	192.56779	107.92197	4.05915	0.2444241	0.23976926	2.5661008	20	9 4.3	18.4
233533 2007 HC_{68}	17.3	X	358.90601	49.52095	103.53294	3.65730	0.0936949	0.29093987	2.2556267	20	1 1.0	19.7
233534 2007 HN_{74}	17.8	X	289.77187	30.38415	128.64460	3.10440	0.1181697	0.27505332	2.3416652	20	—	—
233535 2007 HU_{78}	17.3	X	187.36568	210.59864	43.48108	2.05153	0.1497074	0.27149621	2.3620742	20	—	—
233536 2007 HT_{79}	16.7	X	154.56362	238.65188	190.60574	2.65486	0.0622313	0.22602179	2.6691266	20	5 1.3	20.4
233537 2007 HR_{85}	17.2	X	187.43422	106.72018	137.86427	2.64511	0.1478527	0.26854011	2.3793771	20	—	—
233538 2007 HJ_{95}	16.2	X	268.94357	207.17972	112.83707	8.44364	0.1008428	0.22245936	2.6975464	20	4 22.4	20.1
233539 2007 HW_{97}	16.6	X	223.27375	149.22577	96.40052	7.12458	0.0800239	0.27594512	2.3366172	20	—	—
233540 2007 JS_{12}	15.2	X	141.84984	174.50003	95.08049	16.03946	0.1034243	0.18612166	3.0381189	20	12 21.4	19.9
233541 2007 JQ_{15}	15.5	X	52.09911	99.35896	221.15414	16.32850	0.1317769	0.17735048	3.1374813	20	11 21.2	19.9
233542 2007 JY_{18}	17.4	X	256.38901	50.94874	137.11864	3.55691	0.0943883	0.27181411	2.3602321	20	—	—
233543 2007 JJ_{21}	17.1	X	308.32770	154.26564	21.43627	3.43449	0.0521123	0.28032613	2.3122085	20	—	—
233544 2007 JY_{22}	16.2	X	340.32936	23.46044	294.62903	1.49743	0.1416869	0.23625131	2.5915121	20	8 4.5	18.7
233545 2007 JU_{25}	16.1	X	47.87810	212.54525	142.96254	5.41535	0.0735271	0.18403990	3.0609863	20	12 21.3	20.4
233546 2007 JN_{26}	17.1	X	351.30062	19.57283	109.46575	6.53902	0.0901339	0.27931435	2.3177889	20	—	—
233547 Luxun	16.5	X	195.95391	235.26104	66.02067	6.00084	0.2543630	0.27545082	2.3394117	20	1 8.1	20.5
233548 2007 JW_{28}	17.0	X	349.77083	163.05460	48.63559	7.93280	0.1364410	0.29645325	2.2275728	20	3 10.8	19.1
233549 2007 JP_{30}	17.2	X	230.39767	129.72877	137.49390	3.15639	0.1380694	0.27915039	2.3186964	20	—	—
233550 2007 JC_{31}	15.8	X	83.79265	25.80564	176.26162	12.57889	0.1946899	0.23919206	2.5702274	20	8 15.5	19.7
233551 2007 LD_{13}	15.5	X	294.91836	237.32037	143.55442	11.15751	0.2277240	0.23683750	2.5872341	20	7 27.8	18.4
233552 2007 LC_{17}	16.8	X	216.90588	99.08076	76.30584	7.06593	0.0665303	0.26056331	2.4276936	20	12 6.0	20.0
233553 2007 MO_{13}	16.7	X	154.27730	354.98372	269.78984	2.35977	0.2074116	0.25825365	2.4421466	20	—	—
233554 2007 MF_{24}	15.6	X	97.40187	349.29315	32.27670	7.70148	0.1230182	0.18777851	3.0202215	20	1 7.6	19.8
233555 2007 NT_{3}	17.0	X	168.58520	220.42821	55.11508	3.03609	0.1750464	0.26265695	2.4147756	20	—	—
233556 2007 NX_{3}	16.7	X	234.62632	183.55206	103.46990	14.23722	0.2437195	0.27853273	2.3221230	20	1 19.4	20.7
233557 2007 NA_{5}	15.8	X	296.23967	218.77918	102.18186	4.41448	0.1573707	0.21993897	2.7181156	20	5 18.3	19.3
233558 2007 OF_{5}	16.1	X	149.33031	349.80372	36.21703	2.31411	0.0848160	0.19781102	2.9172192	20	3 6.2	20.4
233559 Pizzetti	15.8	X	336.50374	103.33378	155.97900	12.74214	0.1347624	0.21510623	2.7586761	20	5 4.8	19.2
233560 2007 PZ	16.2	X	303.21965	335.68229	322.58697	6.22071	0.1339513	0.21642169	2.7474863	20	4 27.4	19.8
233561 2007 PZ_{1}	16.1	X	180.77008	294.39468	47.84222	2.71682	0.0951000	0.20048119	2.8912588	20	2 15.8	20.5
233562 2007 PG_{6}	16.8	X	148.45995	274.34799	25.81570	2.89870	0.1677121	0.26273056	2.4143246	20	—	—
233563 2007 PM_{6}	17.0	X	203.62350	114.89846	156.91341	5.28506	0.2054616	0.26705121	2.3882127	20	—	—
233564 2007 PR_{11}	16.4	X	68.74114	141.63365	114.41751	5.75763	0.1141167	0.23274548	2.6174710	20	10 1.4	20.0
233565 2007 PD_{13}	15.1	X	119.83066	23.12743	322.31257	17.64964	0.0669588	0.18562045	3.0435854	20	—	—
233566 2007 PT_{13}	14.9	X	60.15346	48.38839	320.98573	25.55807	0.2011768	0.17446361	3.1719973	20	—	—
233567 2007 PU_{15}	16.0	X	265.23155	325.45649	357.83925	8.78127	0.1474525	0.20904267	2.8117676	20	4 10.6	20.3
233568 2007 PW_{20}	15.7	X	112.71877	214.33648	148.15477	5.21359	0.1478414	0.18248364	3.0783649	20	1 6.4	20.1
233569 2007 PB_{26}	15.5	X	153.27480	358.12546	331.55429	10.07644	0.1171665	0.18571528	3.0425493	20	1 8.7	20.2
233570 2007 PU_{29}	15.6	X	324.94932	123.85323	139.13328	8.46169	0.1820326	0.21239102	2.7821377	20	4 12.8	18.9
233571 2007 PW_{29}	16.2	X	0.92874	194.67911	125.27217	3.30184	0.2095402	0.22942759	2.6426458	20	9 26.7	18.6
233572 2007 PR_{31}	15.7	X	236.19748	335.24851	337.75727	5.25857	0.0678312	0.20430129	2.8551043	20	3 7.3	19.9
233573 2007 PX_{42}	17.0	X	204.84241	67.91254	196.63955	2.62643	0.1748421	0.26536953	2.3982917	20	—	—
233574 2007 PR_{46}	16.7	X	245.64491	83.55333	171.68351	0.51851	0.0726584	0.18954114	3.0014681	20	1 10.2	21.2
233575 2007 PZ_{46}	16.4	X	70.50410	213.26922	290.51948	2.03435	0.0630818	0.20531095	2.8457363	20	4 22.2	20.0
233576 2007 QL	15.3	X	80.63004	177.74410	177.13716	9.69253	0.0840524	0.17382241	3.1797931	20	—	—
233577 2007 QU_{1}	16.1	X	302.36782	85.77480	211.34183	5.60187	0.0784166	0.21520322	2.7578473	20	5 6.6	19.6
233578 2007 QK_{5}	12.5	X	4.11605	17.41513	352.56432	19.90042	0.0739883	0.08259109	5.2221247	20	10 14.8	19.2
233579 2007 QK_{6}	16.7	X	170.19596	15.60741	314.22375	5.80254	0.1591016	0.26758408	2.3850411	20	1 16.7	20.2
233580 2007 QW_{8}	16.0	X	96.44368	12.54576	341.71598	1.77544	0.1258666	0.17861869	3.1226126	20	—	—
233581 2007 QX_{8}	16.6	X	101.28917	97.54727	157.25478	11.81674	0.2571193	0.24201474	2.5502035	20	11 16.1	21.2
233582 2007 QH_{13}	16.1	X	327.21348	262.12756	0.46925	8.45120	0.1249347	0.21011180	2.8022213	20	4 18.0	19.6
233583 2007 RR	17.3	X	261.84472	77.48907	103.06712	3.72870	0.1178153	0.25812285	2.4429716	20	—	—
233584 2007 RQ_{2}	16.1	X	3.72012	300.75987	335.90334	7.75740	0.2323275	0.22189555	2.7021139	20	7 27.7	18.4
233585 2007 RJ_{18}	15.9	X	63.19785	279.47375	356.34148	6.97848	0.1808013	0.23294181	2.6160001	20	10 24.2	19.7
233586 2007 RA_{23}	14.8	X	102.35412	75.74976	266.96926	11.08719	0.0606340	0.17774677	3.1328161	20	—	—
233587 2007 RY_{25}	16.4	X	235.78152	27.46517	225.02154	0.61431	0.0096685	0.18859179	3.0115323	20	—	—
233588 2007 RD_{58}	16.6	X	251.15500	155.32718	142.19042	3.34601	0.1829528	0.27547440	2.3392782	20	2 17.8	20.2
233589 2007 RC_{70}	15.7	X	218.57943	184.92974	82.98439	2.52182	0.0657002	0.18578870	3.0417477	20	—	—
233590 2007 RX_{81}	16.0	X	178.25795	194.07542	147.20231	1.77188	0.0510074	0.19219339	2.9737908	20	2 9.8	20.5
233591 2007 RS_{103}	15.2	X	114.77957	13.47628	5.71737	18.57127	0.1088518	0.18222066	3.0813259	20	1 30.9	19.9
233592 2007 RT_{109}	15.3	X	21.26231	91.76845	359.91272	10.30128	0.0209662	0.17944918	3.1129710	20	—	—
233593 2007 RH_{116}	16.3	X	317.12865	45.92412	274.25572	2.29452	0.1954091	0.21716646	2.7412010	20	6 13.8	19.1
233594 2007 RD_{120}	16.0	X	301.62373	236.00934	53.57212	2.68937	0.0346834	0.20608621	2.8385950	20	5 1.9	19.6
233595 2007 RM_{134}	15.1	X	153.43012	209.88704	139.15299	10.08012	0.0756807	0.18676614	3.0311258	20	1 25.5	19.6
233596 2007 RY_{134}	15.3	X	10.82085	274.10505	353.01553	11.89159	0.1335993	0.21800896	2.7341342	20	7 21.0	18.5
233597 2007 RJ_{135}	15.5	X	206.97548	328.43502	327.86834	5.10712	0.0788371	0.18801576	3.0176802	20	1 19.6	20.1
233598 2007 RR_{137}	15.9	X	101.16659	47.61672	335.71835	4.00535	0.1517663	0.18152042	3.0892453	20	1 19.3	20.2
233599 2007 RN_{158}	16.2	X	171.72972	306.68297	61.61423	2.87992	0.1161685	0.19514082	2.9437706	20	3 10.5	20.8
233600 2007 RO_{168}	13.2	X	313.47881	20.65494	46.99010	4.24212	0.0544549	0.08144217	5.2711231	20	10 22.9	19.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
233601 2007 RT_{210}	15.1	X	30.06332	79.90460	336.82580	15.69186	0.0949799	0.17537428	3.1610069	20	—	—
233602 2007 RW_{260}	15.4	X	157.66122	190.60702	126.99513	5.08158	0.0488360	0.17888609	3.1195001	20	—	—
233603 2007 RL_{277}	15.0	X	227.97220	356.48653	280.28817	10.99639	0.0942490	0.18842946	3.0132616	20	1 15.6	19.6
233604 2007 RT_{308}	15.6	X	16.01663	320.40825	202.63662	9.17311	0.2713824	0.18911935	3.0059291	20	2 27.2	18.3
233605 2007 RE_{310}	16.3	X	211.69408	211.74352	51.93394	6.48950	0.0911191	0.26301831	2.4125634	20	—	—
233606 2007 SE_{10}	16.1	X	156.63700	215.36233	138.28526	0.94503	0.0564556	0.19075792	2.9886909	20	2 1.6	20.3
233607 2007 SX_{12}	16.3	X	78.40176	306.55019	335.68190	5.88489	0.2001904	0.23601354	2.5932523	20	11 19.7	20.4
233608 2007 SK_{16}	16.0	X	252.28365	3.95473	270.17369	2.80109	0.0753166	0.19445209	2.9507175	20	2 6.9	20.4
233609 2007 TV_{6}	16.7	X	254.14108	33.84834	262.23808	4.15856	0.2273477	0.27519800	2.3408443	20	2 13.8	20.5
233610 2007 TE_{76}	16.2	X	316.36208	151.86189	140.94959	1.86080	0.0338804	0.21249183	2.7812576	20	5 26.9	19.8
233611 2007 TH_{89}	16.1	X	93.35485	213.54145	88.02589	5.35707	0.1109622	0.23644968	2.5900624	20	12 22.2	19.9
233612 2007 TB_{135}	16.4	X	241.46640	215.55317	28.07837	2.17231	0.1306484	0.18695497	3.0290844	20	—	—
233613 2007 TT_{143}	15.4	X	316.19846	134.87194	21.85572	9.79047	0.0318090	0.17734664	3.1375265	20	—	—
233614 2007 TS_{153}	16.0	X	15.90142	271.18267	5.23038	9.59303	0.1690742	0.21912099	2.7248759	20	8 17.8	19.0
233615 2007 TM_{156}	16.6	X	194.29290	26.13808	308.05451	2.97910	0.1886067	0.26842596	2.3800516	20	2 13.2	20.3
233616 2007 TA_{168}	15.5	X	173.98301	334.33064	351.37618	5.26646	0.0357632	0.18191422	3.0847854	20	1 19.5	20.0
233617 2007 TS_{171}	15.9	X	190.74591	163.65405	145.62560	3.44305	0.1339101	0.18488170	3.0516878	20	1 19.3	20.8
233618 2007 TQ_{204}	16.7	X	252.63601	310.88816	135.04156	3.40331	0.0686139	0.21977327	2.7194817	20	9 18.7	20.2
233619 2007 TZ_{204}	16.5	X	106.21650	162.89808	128.14016	2.74868	0.1564913	0.23765872	2.5812706	20	12 24.5	20.7
233620 2007 TL_{221}	16.1	X	164.51526	98.13603	144.33102	2.79861	0.0659087	0.16964150	3.2318261	20	12 9.8	20.9
233621 2007 TP_{235}	15.5	X	231.40251	222.42426	59.21441	3.94190	0.1612397	0.18734841	3.0248421	20	1 23.4	20.4
233622 2007 TJ_{236}	16.6	X	142.17257	242.54922	141.82352	2.45696	0.0331584	0.18621322	3.0371230	20	2 20.5	21.0
233623 2007 TG_{243}	15.8	X	46.22724	310.20842	322.58937	12.02460	0.2890425	0.22991695	2.6388947	20	10 11.0	19.6
233624 2007 TS_{272}	15.6	X	193.96601	119.39084	160.84915	5.57482	0.1138016	0.17532901	3.1615510	20	—	—
233625 2007 TR_{274}	16.6	X	355.50330	269.62184	19.52640	3.96902	0.0669891	0.22041669	2.7141868	20	7 19.9	20.0
233626 2007 TO_{393}	15.9	X	285.33986	316.23681	88.88729	7.43071	0.0384257	0.22252915	2.6969824	20	9 17.1	19.5
233627 2007 TF_{440}	15.3	X	315.17129	186.01867	341.98989	12.56891	0.1143990	0.17907438	3.1173130	20	—	—
233628 2007 TD_{443}	15.4	X	224.22805	237.77871	56.88995	9.58439	0.0687060	0.18953465	3.0015366	20	2 6.9	20.0
233629 2007 UE_{52}	14.8	X	349.64541	271.90598	240.47313	14.83960	0.0489504	0.17329740	3.1862121	20	1 12.7	19.3
233630 2007 UF_{91}	17.0	X	140.70223	319.71246	284.36099	0.67681	0.1521817	0.23237863	2.6202251	20	11 28.2	21.0
233631 2007 UA_{107}	15.9	X	92.85652	225.14263	45.72969	12.55372	0.1724900	0.22782465	2.6550268	20	11 16.7	20.2
233632 2007 UC_{113}	15.1	X	276.53173	238.11277	69.31876	9.06301	0.2044988	0.20157417	2.8807979	20	4 3.3	19.5
233633 2007 VW_{10}	16.3	X	289.57569	185.09694	186.48663	5.04948	0.0887913	0.21145480	2.7903436	20	7 25.5	19.9
233634 2007 VF_{25}	15.3	X	252.13913	308.58543	12.84853	12.04365	0.1726063	0.19654208	2.9297621	20	3 26.9	19.8
233635 2007 VE_{27}	15.3	X	273.19606	183.93153	329.93978	10.17380	0.0370022	0.16817209	3.2506242	20	—	—
233636 2007 VA_{32}	16.1	X	204.50197	32.31798	289.25292	4.90638	0.1043571	0.18617966	3.0374879	20	2 13.7	20.8
233637 2007 VW_{89}	15.4	X	133.67227	353.95990	70.05537	9.45675	0.0378652	0.18889721	3.0082853	20	4 3.8	19.8
233638 2007 VP_{216}	16.3	X	35.94867	172.56437	317.70815	1.63618	0.0711215	0.17821739	3.1272985	20	2 20.4	20.4
233639 2007 WO_{17}	15.0	X	246.85607	61.16541	233.10166	13.84521	0.0304429	0.18304780	3.0720365	20	2 25.7	19.7
233640 2008 AC_{19}	16.4	X	252.36992	8.30163	113.14411	6.48160	0.1126775	0.21373084	2.7704985	20	10 28.8	20.1
233641 2008 HN_{12}	15.8	X	219.91794	283.21833	53.16848	11.91374	0.2117062	0.23121743	2.6289904	20	3 17.0	20.4
233642 2008 KW	17.1	X	57.41574	196.86017	121.61320	6.54332	0.1410997	0.27324506	2.3519848	20	12 16.5	20.5
233643 2008 MB_{1}	14.7	X	43.04107	195.74161	117.70099	16.93944	0.1383906	0.17959589	3.1112754	20	11 9.2	19.3
233644 2008 OZ_{6}	16.2	X	259.37022	55.17817	295.53598	10.85095	0.1660331	0.22971628	2.6404313	20	5 4.5	20.3
233645 2008 OO_{10}	15.6	X	71.14551	188.71884	117.59356	9.57498	0.1906436	0.18178462	3.0862513	20	12 4.3	20.4
233646 2008 OJ_{18}	16.2	X	24.65589	353.26050	50.42070	1.68486	0.1804263	0.17694892	3.1422262	20	—	—
233647 2008 PE_{2}	16.9	X	44.95984	229.79242	104.61549	3.20362	0.2066309	0.26269847	2.4145212	20	12 28.1	20.1
233648 2008 PN_{8}	16.7	X	73.45042	18.48117	314.66667	6.73560	0.1348234	0.26903394	2.3764645	20	—	—
233649 2008 PJ_{12}	15.1	X	45.85607	57.36699	324.41668	15.25713	0.2312542	0.18298056	3.0727891	20	—	—
233650 2008 PM_{15}	16.9	X	2.87637	240.84701	147.94676	5.23483	0.1956256	0.26127373	2.4232909	20	—	—
233651 2008 PV_{18}	15.7	X	12.58986	279.58659	138.08726	25.80455	0.2884511	0.18167162	3.0875309	20	—	—
233652 2008 PC_{21}	15.5	X	87.28725	28.69868	23.69990	14.71539	0.2173819	0.20061950	2.8899298	20	2 19.2	19.5
233653 Rether	15.3	X	61.42406	143.18355	178.50096	27.71082	0.1408915	0.17922412	3.1155764	20	12 6.1	20.4
233654 2008 QV_{2}	16.9	X	24.79797	196.10793	157.59751	2.95458	0.2041777	0.25763935	2.4460270	20	12 27.8	19.9
233655 2008 QH_{12}	17.3	X	56.31557	127.94118	211.71205	0.65474	0.2018730	0.26482281	2.4015914	20	—	—
233656 2008 QA_{20}	16.2	X	261.38065	301.05116	98.32879	14.96244	0.1671688	0.23890448	2.5722896	20	7 15.0	19.7
233657 2008 QE_{23}	15.6	X	95.91886	106.16406	320.56945	14.17338	0.1373363	0.20484081	2.8500888	20	2 26.1	19.5
233658 2008 QG_{28}	15.3	X	150.62737	289.54907	118.65731	9.96754	0.1488335	0.21429107	2.7656677	20	4 11.3	19.8
233659 2008 QM_{28}	16.4	X	35.35726	304.81092	43.27290	7.18494	0.1498705	0.26052287	2.4279448	20	12 26.6	19.7
233660 2008 QR_{32}	16.0	X	177.51960	81.92239	268.58807	8.79486	0.0892609	0.21379791	2.7699190	20	2 15.9	20.3
233661 Alytus	17.1	X	22.54704	152.00144	269.11591	3.80996	0.0563348	0.27314455	2.3525617	20	—	—
233662 2008 QB_{44}	15.4	X	93.55385	196.68499	101.53302	11.07355	0.1596291	0.18261631	3.0768737	20	12 12.5	20.3
233663 2008 QM_{47}	16.4	X	160.35484	283.78470	117.29851	2.36336	0.0551117	0.21493376	2.7601518	20	4 2.6	20.3
233664 2008 RA_{2}	17.2	X	66.01830	191.97141	154.20337	2.47771	0.0903999	0.26573523	2.3960909	20	—	—
233665 2008 RO_{9}	16.8	X	199.07055	315.15354	221.28082	4.79628	0.0955567	0.25419394	2.4680801	20	11 10.5	20.1
233666 2008 RK_{23}	15.6	X	264.55555	37.25409	3.74153	15.45675	0.1784813	0.23412400	2.6071865	20	7 24.8	19.4
233667 2008 RQ_{25}	16.8	X	200.94595	13.27760	355.52524	3.85797	0.1077136	0.21691291	2.7433367	20	4 4.9	21.0
233668 2008 RS_{27}	16.0	X	274.58508	207.70861	151.12229	6.53530	0.2996117	0.22983253	2.6395408	20	5 20.3	20.0
233669 2008 RC_{30}	16.9	X	318.66204	135.03736	351.26637	2.46246	0.0449449	0.27199245	2.3592003	20	—	—
233670 2008 RW_{35}	15.1	X	163.02256	165.75763	355.73230	9.24470	0.0424298	0.15960698	3.3659019	20	9 3.5	20.0
233671 2008 RY_{39}	16.4	X	75.90130	221.01341	175.06360	3.45555	0.1453386	0.19245384	2.9711072	20	—	—
233672 2008 RO_{42}	16.6	X	26.37666	43.46089	35.03828	0.68020	0.2028428	0.18698407	3.0287701	20	—	—
233673 2008 RP_{45}	17.2	X	193.98666	45.97807	30.84438	2.56300	0.0893002	0.22861273	2.6489216	20	6 24.7	21.1
233674 2008 RE_{57}	17.4	X	182.62865	13.47471	277.30873	1.56343	0.1371716	0.28299104	2.2976697	20	—	—
233675 2008 RR_{65}	16.5	X	225.86789	223.78976	143.83260	4.23248	0.2241810	0.22322136	2.6914040	20	4 23.9	21.0
233676 2008 RD_{67}	16.5	X	201.79039	274.52607	90.60308	3.39698	0.1325736	0.21699992	2.7426033	20	4 3.3	20.8
233677 2008 RJ_{70}	14.7	X	214.60018	294.44824	260.95017	11.13096	0.1142184	0.17824002	3.1270338	20	12 3.8	19.4
233678 2008 RX_{74}	17.4	X	68.16867	68.72925	288.09224	1.18762	0.2269112	0.26938443	2.3744028	20	—	—
233679 2008 RV_{79}	16.3	X	217.13579	251.52678	119.67133	6.68120	0.1480529	0.22342503	2.6897681	20	4 25.8	20.6
233680 2008 RU_{91}	16.8	X	213.55134	177.00952	350.11607	2.38250	0.1334177	0.25614258	2.4555467	20	11 10.0	20.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
233681 2008 RH_{106}	15.8	X	318.00816	111.60455	320.01766	9.44299	0.0862610	0.17883674	3.1200739	20	11 18.0	19.9
233682 2008 RV_{110}	16.4	X	359.43753	338.77521	77.85927	2.60415	0.1537575	0.17752943	3.1353725	20	—	—
233683 2008 RG_{113}	13.7	X	314.60423	121.33997	295.80850	5.94579	0.0924279	0.08319383	5.1968713	20	10 6.3	20.3
233684 2008 RV_{116}	15.4	X	355.87346	229.08863	231.46305	10.90183	0.0793094	0.17789510	3.1310745	20	—	—
233685 2008 RG_{121}	17.1	X	236.16030	327.10157	205.50269	0.53180	0.1275572	0.26151485	2.4218012	20	12 18.9	19.8
233686 2008 RN_{129}	16.4	X	237.63211	311.74214	2.86994	1.74325	0.0507004	0.20378032	2.8599683	20	3 13.0	20.3
233687 2008 RF_{134}	16.7	X	152.88513	229.66736	147.02589	6.59689	0.1945529	0.29193355	2.2505053	20	2 27.9	20.0
233688 2008 RC_{136}	16.2	X	355.79220	291.47191	261.34831	3.11216	0.0311846	0.21451670	2.7637281	20	3 8.3	19.9
233689 2008 SE_{4}	16.4	X	236.50892	274.33009	112.45194	3.36086	0.1528151	0.22784425	2.6548745	20	6 1.1	20.3
233690 2008 SZ_{5}	16.0	X	195.56448	287.21239	164.72025	13.36210	0.1337493	0.22917984	2.6445500	20	7 12.9	20.3
233691 2008 SX_{9}	15.7	X	131.51236	103.96054	201.20652	2.97390	0.0798562	0.18914029	3.0057072	20	—	—
233692 2008 SX_{11}	16.0	X	113.52513	259.98894	197.12762	1.87621	0.0612519	0.21384224	2.7695362	20	4 18.1	19.9
233693 2008 SM_{18}	16.2	X	99.89696	291.11785	154.52018	9.44713	0.2452497	0.21024978	2.8009951	20	4 15.1	20.4
233694 2008 SM_{20}	16.4	X	206.11668	95.85330	337.57402	4.16790	0.0707680	0.23038618	2.6353103	20	7 5.8	20.2
233695 2008 SB_{30}	16.2	X	141.17309	101.95626	336.94267	2.99270	0.0833359	0.21531151	2.7569224	20	4 28.7	20.3
233696 2008 SU_{33}	16.5	X	181.27499	240.97307	165.28566	3.27601	0.1783186	0.22273354	2.6953322	20	5 4.0	20.9
233697 2008 SE_{34}	17.0	X	13.87113	208.02353	152.12069	1.74806	0.2030507	0.25728031	2.4483021	20	12 21.4	19.8
233698 2008 SK_{34}	17.1	X	160.13373	231.59760	154.58319	6.48516	0.0385772	0.29854971	2.2171323	20	3 3.8	19.6
233699 2008 SW_{45}	16.1	X	50.58511	356.22548	61.70088	0.90526	0.1572621	0.18746958	3.0235385	20	—	—
233700 2008 SN_{48}	16.7	X	343.10657	126.39846	348.81479	5.28477	0.0816053	0.27332611	2.3515198	20	—	—
233701 2008 SJ_{50}	16.8	X	12.36320	223.51186	185.45457	5.42198	0.1738809	0.26357280	2.4091786	20	—	—
233702 2008 SF_{51}	16.6	X	181.68262	220.99058	186.19292	2.18232	0.0868299	0.21963067	2.7206587	20	5 4.3	20.6
233703 2008 SK_{58}	16.8	X	277.67749	225.31979	165.95385	4.14509	0.1002273	0.23558664	2.5963841	20	8 5.2	20.1
233704 2008 SY_{67}	17.1	X	179.13415	144.05065	154.64330	5.53265	0.1756480	0.28219442	2.3019918	20	—	—
233705 2008 SL_{68}	16.0	X	182.78376	203.70377	313.10528	11.72294	0.1132634	0.23803835	2.5785255	20	9 18.8	20.0
233706 2008 SF_{74}	15.8	X	184.59073	120.89055	271.35743	4.53138	0.0907353	0.21546941	2.7555754	20	4 16.4	20.0
233707 Alfons	16.9	X	359.30345	146.20590	262.94724	10.12215	0.0790217	0.26591580	2.3950061	20	—	—
233708 2008 SB_{91}	16.5	X	45.64332	282.32935	355.87297	4.15455	0.0697079	0.24284631	2.5443785	20	9 22.1	19.6
233709 2008 SS_{95}	16.4	X	190.28649	98.05399	260.44026	2.09993	0.1262313	0.20963588	2.8064607	20	3 13.1	20.8
233710 2008 SM_{97}	16.3	X	141.43002	116.01651	358.51798	4.76240	0.0903561	0.22174651	2.7033246	20	6 15.6	20.3
233711 2008 SM_{102}	15.9	X	99.10918	172.47672	70.75344	6.62150	0.0413886	0.24425950	2.5345551	20	10 14.5	19.4
233712 2008 SM_{105}	16.6	X	150.32122	293.04022	186.35654	1.94898	0.0524977	0.22432769	2.6825478	20	6 30.2	20.3
233713 2008 SG_{107}	16.3	X	29.52717	243.21138	103.48534	16.55972	0.1151646	0.25953636	2.4340934	20	12 13.6	19.5
233714 2008 SQ_{112}	16.1	X	36.87607	331.12611	112.36451	3.43133	0.1749086	0.18880293	3.0092867	20	—	—
233715 2008 SD_{129}	16.2	X	7.18876	307.18329	350.73546	3.25555	0.1745820	0.23858795	2.5745641	20	9 2.3	18.6
233716 2008 SO_{129}	16.4	X	259.27784	347.47457	10.32768	6.35657	0.0458966	0.22298093	2.6933382	20	6 1.8	20.1
233717 2008 SK_{130}	16.7	X	283.36332	276.12233	235.89934	3.18290	0.0404904	0.26404923	2.4062797	20	—	—
233718 2008 SR_{131}	16.1	X	269.97216	73.51090	272.47521	1.70178	0.0900380	0.22401791	2.6850202	20	5 25.4	19.7
233719 2008 SE_{135}	16.9	X	128.99941	5.37184	330.37413	6.37531	0.1677733	0.27606744	2.3359269	20	—	—
233720 2008 SK_{142}	15.8	X	4.14933	352.14954	101.16580	2.54389	0.1460663	0.18107361	3.0943251	20	—	—
233721 2008 SE_{143}	15.7	X	342.87987	34.37904	200.26663	8.40166	0.0854663	0.21247020	2.7814464	20	4 11.9	18.8
233722 2008 SY_{151}	16.5	X	229.39006	172.50312	20.33914	6.83084	0.0735056	0.26575879	2.3959493	20	—	—
233723 2008 SS_{153}	16.3	X	163.06267	260.72614	169.08394	4.91349	0.1488950	0.21952199	2.7215566	20	5 16.4	20.7
233724 2008 SN_{154}	16.3	X	238.82676	228.83350	137.44986	2.70825	0.1065855	0.22528494	2.6749435	20	5 13.2	20.1
233725 2008 SP_{158}	16.8	X	11.85052	146.52648	328.07334	5.17185	0.1323228	0.28032827	2.3121967	20	—	—
233726 2008 SZ_{165}	17.0	X	62.19298	232.06114	173.67447	6.53330	0.0914811	0.27469081	2.3437249	20	—	—
233727 2008 SG_{167}	16.2	X	246.04449	307.06702	60.27239	4.01305	0.1624309	0.22452411	2.6809830	20	5 15.8	20.2
233728 2008 SQ_{189}	17.0	X	189.95995	149.85791	329.07904	2.12553	0.1466520	0.23278732	2.6171574	20	8 12.0	21.0
233729 2008 SF_{192}	15.9	X	56.55738	349.16156	171.01919	6.38324	0.0108696	0.21379834	2.7699153	20	4 20.1	19.7
233730 2008 ST_{196}	16.7	X	164.74159	274.75521	181.50041	3.42066	0.1087562	0.22032063	2.7149757	20	6 18.3	20.9
233731 2008 SL_{210}	17.0	X	59.60079	307.26551	171.17962	6.85934	0.0428140	0.29230588	2.2485938	20	2 19.7	19.5
233732 2008 SD_{218}	15.8	X	58.90165	59.86770	308.01075	12.24730	0.1094631	0.17940159	3.1135214	20	—	—
233733 2008 SZ_{242}	16.6	X	260.74604	339.39465	93.46173	1.61545	0.1071315	0.23780960	2.5801788	20	9 8.4	19.7
233734 2008 SF_{243}	15.9	X	207.18997	185.36301	95.56107	2.66849	0.0253209	0.19153585	2.9805929	20	—	—
233735 2008 SK_{256}	16.9	X	135.32862	70.02299	29.05938	3.20293	0.0333258	0.21776481	2.7361773	20	5 13.6	20.6
233736 2008 SS_{256}	16.3	X	177.52737	334.28644	22.32768	2.06321	0.0857541	0.20411221	2.8568673	20	2 28.5	20.7
233737 2008 SB_{257}	16.0	X	219.82720	205.42099	117.28511	9.03741	0.2519110	0.21318203	2.7752513	20	2 26.2	20.9
233738 2008 SN_{257}	16.2	X	141.45425	4.89019	51.33474	4.66347	0.0940401	0.20929966	2.8094655	20	4 4.4	20.3
233739 2008 SJ_{258}	16.3	X	39.65234	95.24942	345.48783	1.53745	0.0604408	0.18908382	3.0063057	20	—	—
233740 2008 SJ_{269}	15.8	X	256.30369	320.13242	112.96797	10.50157	0.0915927	0.24007411	2.5639280	20	9 8.5	19.2
233741 2008 SN_{271}	17.1	X	170.07985	319.14998	104.39503	1.75165	0.0507832	0.21518066	2.7580400	20	5 11.7	20.9
233742 2008 SB_{272}	15.6	X	265.29983	209.30761	150.10552	12.94000	0.1958587	0.22595289	2.6696692	20	5 25.8	19.7
233743 2008 SO_{290}	15.8	X	89.12400	61.27389	345.85027	9.07756	0.0746470	0.19366105	2.9587472	20	1 21.7	19.9
233744 2008 SA_{298}	15.9	X	116.60411	235.50401	170.12069	2.71263	0.0257304	0.20232475	2.8736687	20	2 12.3	19.7
233745 2008 SF_{301}	16.1	X	173.51109	68.35297	331.70782	5.21552	0.1386824	0.21438609	2.7648505	20	4 15.6	20.6
233746 2008 SR_{303}	17.3	X	216.84373	345.36427	317.02602	4.49010	0.1562304	0.29081049	2.2562956	20	1 23.1	20.6
233747 2008 SL_{304}	15.9	X	36.54513	306.53744	129.91689	7.32611	0.1150078	0.18738238	3.0244765	20	—	—
233748 2008 SL_{307}	16.9	X	105.21210	202.53658	135.26309	6.81767	0.1512249	0.27143876	2.3624075	20	—	—
233749 2008 TF_{3}	16.5	X	325.09098	9.86050	337.59091	4.62977	0.1546398	0.23493395	2.6011907	20	8 18.3	19.1
233750 2008 TM_{4}	16.5	X	154.28219	230.39689	192.96186	3.65086	0.1535829	0.21447925	2.7640498	20	4 29.6	20.9
233751 2008 TW_{6}	16.4	X	212.45802	319.59848	195.57746	5.73877	0.1029329	0.25186301	2.4832844	20	10 28.9	19.7
233752 2008 TY_{8}	15.6	X	77.49028	268.91036	108.13486	6.23094	0.1876532	0.18603398	3.0390735	20	—	—
233753 2008 TN_{17}	16.7	X	212.96231	339.67916	344.00204	1.43476	0.0589529	0.20370125	2.8607084	20	2 25.2	20.9
233754 2008 TH_{18}	15.7	X	104.61423	22.35766	352.64535	1.26671	0.1945949	0.19080711	2.9881772	20	1 17.5	19.8
233755 2008 TT_{20}	16.1	X	321.75503	31.60097	92.23382	0.05043	0.1149611	0.17737251	3.1372214	20	—	—
233756 2008 TQ_{24}	16.4	X	95.19015	222.04855	266.75380	0.75248	0.0190450	0.21722061	2.7407454	20	4 29.2	20.1
233757 2008 TY_{25}	14.8	X	319.96720	130.51975	322.63723	27.18179	0.1345795	0.17427983	3.1742269	20	12 22.7	19.1
233758 2008 TV_{42}	16.3	X	113.66541	163.87054	316.00261	8.98970	0.1118158	0.21607022	2.7504649	20	5 22.2	20.4
233759 2008 TL_{51}	15.9	X	331.20871	306.55261	147.33298	1.83669	0.1503165	0.17633833	3.1494754	20	—	—
233760 2008 TT_{55}	17.0	X	201.16078	247.80652	216.22530	1.23358	0.1634625	0.23116450	2.6293917	20	8 2.2	21.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
233761 2008 TE_{67}	16.5	X	355.60374	89.89327	131.27555	2.48209	0.0201789	0.21327553	2.7744401	20	4 17.7	20.1
233762 2008 TL_{67}	16.3	X	243.02560	231.15180	150.36104	3.04821	0.1445540	0.22501491	2.6770831	20	6 2.2	20.2
233763 2008 TK_{74}	15.7	X	109.15588	7.54205	298.55063	1.60294	0.0628373	0.17514686	3.1637426	20	12 27.5	20.2
233764 2008 TF_{84}	16.3	X	111.77558	252.77425	221.27265	2.95533	0.1267272	0.21482313	2.7610993	20	5 16.6	20.3
233765 2008 TR_{99}	17.1	X	276.58321	119.16729	48.65368	1.94364	0.1240285	0.26797268	2.3827347	20	—	—
233766 2008 TL_{104}	16.8	X	342.62079	96.79182	234.29506	3.80434	0.1398173	0.24010926	2.5636778	20	8 28.2	19.4
233767 2008 TD_{112}	15.4	X	31.87751	88.27373	357.47932	9.88889	0.0731231	0.18913657	3.0057467	20	—	—
233768 2008 TM_{112}	15.7	X	332.47385	232.65104	237.31668	8.70613	0.1032690	0.18044092	3.1015541	20	—	—
233769 2008 TB_{118}	16.3	X	293.10383	113.07108	216.01847	5.67477	0.1274152	0.22602176	2.6691269	20	5 29.1	19.7
233770 2008 TK_{120}	15.9	X	119.18119	328.77940	139.56734	5.64190	0.1110544	0.21635930	2.7480144	20	5 17.4	19.9
233771 2008 TO_{124}	16.1	X	217.12972	87.19326	305.74887	3.21583	0.1005671	0.22344387	2.6896169	20	5 22.5	20.1
233772 2008 TW_{130}	18.0	X	341.17901	339.74714	291.60840	2.70736	0.1646653	0.31152747	2.1551218	20	5 21.4	19.2
233773 2008 TU_{146}	14.0	X	319.19404	274.35887	145.69375	3.22807	0.0947768	0.08371556	5.1752570	20	10 19.5	20.4
233774 2008 TE_{158}	15.3	X	118.24978	1.32617	2.23567	11.70708	0.1118821	0.19073462	2.9889342	20	1 10.5	19.8
233775 2008 TO_{158}	16.1	X	262.40256	245.55888	172.56217	11.69251	0.0572124	0.23377668	2.6097682	20	8 26.5	19.6
233776 2008 TH_{160}	16.9	X	89.45567	101.57504	81.06038	2.34161	0.0227964	0.22655304	2.6649524	20	7 4.3	20.4
233777 2008 TT_{161}	17.3	X	217.49004	140.70317	74.41069	2.30316	0.1361257	0.26563539	2.3966913	20	—	—
233778 2008 TK_{164}	14.9	X	161.19181	281.22028	148.31398	17.89779	0.2490107	0.12635228	3.9332117	20	5 21.8	21.7
233779 2008 TF_{165}	16.0	X	28.07849	177.90221	238.28103	4.73614	0.1103990	0.18003621	3.1062005	20	—	—
233780 2008 TR_{167}	15.2	X	331.14764	110.57750	317.05377	6.53283	0.0451931	0.16999286	3.2273713	20	12 1.7	19.6
233781 2008 TO_{171}	16.2	X	95.92881	243.21342	172.83816	1.08354	0.0570276	0.19091164	2.9870864	20	2 5.8	20.3
233782 2008 TP_{172}	16.0	X	155.68290	301.33597	241.81812	12.52158	0.1189416	0.24014579	2.5634178	20	9 25.2	20.2
233783 2008 TR_{180}	14.9	X	345.91163	293.38877	130.14845	15.57244	0.1302971	0.17515527	3.1636414	20	12 24.9	18.9
233784 2008 UR_{1}	15.8	X	193.86649	250.23236	180.59645	12.43550	0.1417697	0.22010470	2.7167510	20	6 15.3	20.4
233785 2008 UA_{4}	16.7	X	191.50980	228.94731	347.18360	9.35587	0.0883211	0.25421953	2.4679145	20	12 23.5	20.3
233786 2008 UH_{6}	16.1	X	281.29550	201.02319	100.78865	7.83095	0.0792225	0.21861455	2.7290825	20	4 17.4	19.9
233787 2008 UG_{15}	16.3	X	133.02940	150.69493	332.10926	4.21584	0.1073411	0.22301106	2.6930956	20	6 18.6	20.4
233788 2008 UW_{16}	17.3	X	83.29054	318.64905	26.90700	1.89632	0.2003356	0.26826521	2.3810023	20	—	—
233789 2008 UH_{22}	16.6	X	175.24534	32.49711	27.89533	1.99759	0.0724880	0.21775746	2.7362390	20	5 13.3	20.5
233790 2008 UY_{23}	13.3	X	286.42448	219.88915	234.36262	5.98429	0.0520216	0.08381972	5.1709689	20	10 19.4	20.0
233791 2008 UO_{24}	16.4	X	33.97354	26.52222	49.55712	2.87752	0.0573616	0.18591813	3.0403358	20	—	—
233792 2008 UQ_{41}	16.4	X	318.21533	255.66475	34.11397	3.67852	0.0557479	0.21832589	2.7314876	20	5 21.8	19.7
233793 2008 UH_{53}	16.7	X	139.53518	186.93108	250.54053	1.04158	0.0639065	0.20700873	2.8301553	20	4 24.4	20.7
233794 2008 UE_{59}	16.2	X	112.21354	271.54973	118.02352	3.38529	0.1230870	0.19490834	2.9461109	20	2 2.6	20.2
233795 2008 UA_{60}	15.6	X	296.70878	305.48912	259.98927	6.28818	0.0969121	0.19253591	2.9702629	20	1 3.5	19.7
233796 2008 UU_{61}	16.2	X	0.50157	143.68574	353.69635	3.82217	0.0383009	0.19062593	2.9900703	20	1 10.5	20.3
233797 2008 UW_{83}	17.3	X	126.39781	197.90562	90.95027	2.61420	0.1667364	0.26117727	2.4238875	20	—	—
233798 2008 US_{94}	15.8	X	52.98828	241.14110	36.78709	10.58768	0.1173219	0.23898269	2.5717283	20	10 11.2	19.1
233799 2008 UQ_{110}	16.0	X	210.01095	355.42879	311.34160	3.95138	0.0876449	0.19989170	2.8969403	20	2 1.6	20.2
233800 2008 UZ_{111}	16.6	X	9.96278	301.62262	324.94603	3.07813	0.1187650	0.22855781	2.6493460	20	7 14.8	19.4
233801 2008 UW_{113}	16.0	X	310.66549	92.30749	21.11779	6.67914	0.1110599	0.17265647	3.1940925	20	12 29.4	20.0
233802 2008 UJ_{114}	16.2	X	325.95217	91.98791	15.14610	5.57030	0.1231227	0.17449039	3.1716727	20	—	—
233803 2008 UH_{117}	16.7	X	117.16097	12.56613	274.68404	4.78200	0.1186275	0.25845003	2.4409094	20	—	—
233804 2008 UX_{117}	17.0	X	180.86847	306.65092	356.78604	5.85204	0.1963506	0.27946593	2.3169507	20	—	—
233805 2008 US_{127}	15.8	X	312.32175	12.90990	162.09338	1.45025	0.0907717	0.18289280	3.0737719	20	—	—
233806 2008 UO_{143}	16.3	X	58.88469	325.28917	214.55337	3.65208	0.0070198	0.21533266	2.7567419	20	5 17.5	20.0
233807 2008 UK_{144}	16.7	X	306.30583	159.65183	125.46655	1.11845	0.0324415	0.21435368	2.7651291	20	5 2.7	20.2
233808 2008 UD_{145}	16.6	X	55.48293	140.06757	86.97871	2.28303	0.0584179	0.22517280	2.6758315	20	7 24.0	19.9
233809 2008 UR_{148}	15.0	X	211.14066	211.38548	47.29706	8.68399	0.0596131	0.18346451	3.0673830	20	—	—
233810 2008 UR_{151}	16.4	X	241.28488	333.76304	46.77493	2.64673	0.0908845	0.22091414	2.7101107	20	6 4.3	20.2
233811 2008 UN_{155}	17.2	X	183.99189	350.77689	124.10929	1.30473	0.0351290	0.23095953	2.6309472	20	8 5.2	20.8
233812 2008 UW_{165}	17.4	X	178.58116	63.54667	186.46915	0.97371	0.1431105	0.26346813	2.4098166	20	—	—
233813 2008 UM_{167}	16.4	X	238.64464	140.60612	177.07538	2.88674	0.0957674	0.20853038	2.8163707	20	3 13.5	20.5
233814 2008 UF_{170}	15.7	X	130.88744	147.45081	307.07898	4.57188	0.0724904	0.21509422	2.7587788	20	5 5.3	19.7
233815 2008 UK_{174}	16.9	X	187.57626	270.60181	335.43202	0.51632	0.1624102	0.26202921	2.4186308	20	—	—
233816 2008 US_{183}	16.4	X	189.85081	212.22500	135.69873	2.68000	0.0791409	0.20513140	2.8473965	20	3 1.3	20.8
233817 2008 UC_{185}	15.9	X	107.50566	10.00115	313.41782	0.80121	0.0837498	0.17499363	3.1655892	20	—	—
233818 2008 UA_{192}	16.1	X	244.80190	300.05593	107.16845	3.75380	0.0311629	0.22927721	2.6438012	20	7 23.8	19.5
233819 2008 UB_{192}	16.2	X	152.75303	281.20416	162.34998	4.13013	0.0689148	0.21405377	2.7677113	20	5 19.1	20.3
233820 2008 UG_{201}	16.0	X	137.41053	152.16270	320.00203	4.95652	0.0493059	0.21918545	2.7243416	20	6 3.9	19.9
233821 2008 UC_{203}	17.5	X	102.68357	0.52496	341.26209	4.39452	0.1753451	0.27031811	2.3689322	20	—	—
233822 2008 UE_{203}	15.9	X	222.00177	9.75572	353.33498	6.11187	0.0261487	0.21537426	2.7563870	20	4 23.8	19.8
233823 2008 UM_{208}	16.3	X	352.73618	167.18620	0.93015	2.92734	0.0150411	0.19810126	2.9143692	20	2 7.9	20.3
233824 2008 US_{211}	17.1	X	182.75133	300.71307	359.28023	3.17414	0.1786143	0.27419899	2.3465266	20	—	—
233825 2008 UE_{240}	16.3	X	48.45679	250.13978	330.38465	5.77156	0.0561590	0.22167542	2.7039025	20	7 4.6	19.8
233826 2008 UB_{242}	15.6	X	179.86288	226.37610	134.29550	12.84591	0.1047206	0.20660924	2.8338023	20	3 9.3	20.0
233827 2008 UF_{244}	12.9	X	346.20090	281.41859	111.14410	13.19320	0.0656798	0.08118219	5.2823707	20	10 28.9	19.7
233828 2008 UP_{244}	15.6	X	296.68667	20.18049	307.17766	14.51907	0.1359905	0.22769694	2.6560194	20	5 28.4	19.3
233829 2008 UE_{248}	16.3	X	0.06885	277.76519	206.76273	1.46473	0.0428786	0.18378749	3.0637883	20	—	—
233830 2008 UQ_{248}	16.3	X	32.57076	51.69676	101.80067	3.25838	0.0208695	0.19858920	2.9095934	20	3 12.7	20.1
233831 2008 UO_{253}	16.3	X	77.43707	35.32421	218.78764	6.18396	0.0698298	0.23878971	2.5731137	20	9 29.9	19.8
233832 2008 UR_{262}	16.3	X	92.15028	290.60856	256.55690	2.38503	0.0442549	0.22263125	2.6961578	20	7 16.7	20.0
233833 2008 UY_{266}	16.5	X	107.82467	144.22519	323.53103	1.82940	0.0203651	0.21055867	2.7982551	20	4 18.0	20.4
233834 2008 UA_{267}	16.6	X	48.42699	248.54281	353.70725	3.37613	0.0293538	0.22864798	2.6486494	20	7 31.5	19.9
233835 2008 UD_{274}	16.3	X	4.09915	79.42197	34.19644	1.21442	0.1768552	0.18240960	3.0791978	20	—	—
233836 2008 UF_{277}	16.2	X	12.04297	206.55937	204.13174	0.64761	0.1727755	0.17550697	3.1594135	20	—	—
233837 2008 UX_{277}	16.2	X	20.18080	34.01414	44.33081	2.53563	0.1243775	0.18256316	3.0774709	20	—	—
233838 2008 UY_{278}	16.1	X	343.00782	56.86138	57.54065	1.96027	0.1447504	0.18050550	3.1008143	20	—	—
233839 2008 UW_{288}	16.8	X	303.72785	138.52145	77.78699	3.78578	0.0311051	0.19881962	2.9073449	20	2 3.7	20.7
233840 2008 UZ_{291}	16.4	X	228.52085	25.08998	338.91433	2.17839	0.0917703	0.21700614	2.7425510	20	4 28.5	20.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
233841 2008 UR_{296}	16.0	X	2.19171	352.14118	240.46783	4.57254	0.0205750	0.21477399	2.7615204	20	5 10.6	19.7
233842 2008 UO_{303}	16.6	X	185.62898	24.85767	251.83490	7.56972	0.2163881	0.26977106	2.3721336	20	—	—
233843 2008 UZ_{305}	15.6	X	298.95767	113.66782	19.75481	12.36610	0.1420486	0.17274163	3.1930426	20	—	—
233844 2008 UU_{307}	16.1	X	12.37881	275.60052	327.60314	6.46324	0.1779884	0.21900913	2.7258037	20	6 17.7	18.9
233845 2008 UK_{318}	16.6	X	232.41237	49.84830	331.19797	5.41600	0.0484739	0.22136979	2.7063906	20	5 29.2	20.5
233846 2008 UZ_{343}	16.1	X	25.11974	237.09574	176.66872	2.84266	0.0919047	0.17521887	3.1628758	20	—	—
233847 2008 UQ_{347}	16.9	X	48.45198	266.78242	339.09026	1.56742	0.0758117	0.23044446	2.6348660	20	8 12.1	20.1
233848 2008 UV_{347}	15.9	X	272.61018	336.41798	193.51190	1.27498	0.1264747	0.17565069	3.1576899	20	—	—
233849 2008 UH_{351}	17.3	X	135.54042	92.45696	170.65170	3.40220	0.1478263	0.25746513	2.4471303	20	12 20.9	21.1
233850 2008 UL_{354}	16.9	X	317.54870	173.98766	101.97144	0.35668	0.0325592	0.21319451	2.7751430	20	5 5.7	20.5
233851 2008 UG_{357}	16.8	X	339.10817	357.49146	297.81929	2.88663	0.0559123	0.22415198	2.6839494	20	7 1.6	19.9
233852 2008 UC_{364}	15.3	X	107.09089	44.72407	348.12298	13.66177	0.1305850	0.19339653	2.9614445	20	2 5.4	19.5
233853 2008 UU_{365}	16.6	X	238.16873	166.55509	155.27862	2.49567	0.0617746	0.20554517	2.8435740	20	3 21.8	20.8
233854 2008 UU_{367}	16.0	X	348.20536	341.62215	87.28179	5.59653	0.1618964	0.17209995	3.2009745	20	—	—
233855 2008 VG_{2}	16.0	X	301.78248	56.68555	299.37610	3.24214	0.2560035	0.23357011	2.6113067	20	6 28.7	18.9
233856 2008 VM_{3}	16.6	X	170.95909	339.33546	354.23504	8.14076	0.1405344	0.28248827	2.3003951	20	1 20.2	20.0
233857 2008 VL_{13}	15.5	X	91.52309	60.98231	298.18293	8.67292	0.1262360	0.18325317	3.0697409	20	—	—
233858 2008 VX_{13}	15.9	X	237.59394	251.16993	137.26331	4.54602	0.0907360	0.22158175	2.7046644	20	6 11.1	19.7
233859 2008 VR_{15}	15.6	X	45.14670	286.69756	54.86647	3.32587	0.0827123	0.16955914	3.2328726	20	11 28.9	20.0
233860 2008 VL_{23}	16.3	X	37.64543	211.55304	103.45473	3.22048	0.2025411	0.24448925	2.5329670	20	11 21.2	19.5
233861 2008 VG_{35}	15.7	X	79.31752	255.89597	85.05373	5.88282	0.1633403	0.17690960	3.1426917	20	—	—
233862 2008 VL_{38}	16.5	X	157.87311	152.99966	348.56102	2.17994	0.0490878	0.22557930	2.6726160	20	8 8.5	20.4
233863 2008 VN_{42}	16.7	X	37.02444	127.24010	126.83516	4.52395	0.0599181	0.22713830	2.6603727	20	8 3.7	19.9
233864 2008 VO_{59}	15.6	X	168.94621	211.54368	195.91565	2.32471	0.2829313	0.12542972	3.9524746	20	4 29.1	22.4
233865 2008 VL_{70}	16.7	X	81.81697	2.81411	160.82329	1.89806	0.0274161	0.21454946	2.7634467	20	5 29.8	20.5
233866 2008 VN_{76}	16.3	X	48.39913	115.49890	132.25122	4.38287	0.0798416	0.22789618	2.6544712	20	8 15.0	19.6
233867 2008 WK_{13}	15.9	X	23.21263	344.78328	125.03797	1.90027	0.1368520	0.18657557	3.0331894	20	1 5.4	19.3
233868 2008 WH_{15}	15.5	X	8.15089	311.54408	213.04227	6.94344	0.1454584	0.19883088	2.9072352	20	2 14.4	18.8
233869 2008 WE_{20}	16.5	X	265.50995	265.26262	59.98165	1.13746	0.0691580	0.21367944	2.7709428	20	4 25.9	20.3
233870 2008 WT_{22}	16.2	X	175.30444	27.32469	39.57723	2.37665	0.0210664	0.21650098	2.7468154	20	5 20.9	20.1
233871 2008 WQ_{23}	16.0	X	287.28276	46.54035	286.45779	3.95605	0.0660683	0.22086072	2.7105478	20	6 4.0	19.5
233872 2008 WW_{23}	16.1	X	40.59699	195.14245	15.73700	1.93333	0.0340547	0.21696206	2.7429224	20	6 5.7	19.6
233873 2008 WG_{25}	16.5	X	176.25213	330.71340	86.35170	5.58268	0.0642498	0.21310964	2.7758798	20	5 11.7	20.5
233874 2008 WL_{59}	16.0	X	236.01867	296.70116	109.79801	3.49044	0.0732629	0.22557660	2.6726372	20	7 4.9	19.7
233875 2008 WT_{59}	16.2	X	310.66893	206.20763	141.48926	4.60262	0.2308561	0.23245400	2.6196586	20	7 7.3	18.9
233876 2008 WB_{61}	15.2	X	274.39498	75.71279	71.11692	5.84447	0.0696677	0.17088664	3.2161081	20	12 21.2	19.5
233877 2008 WY_{78}	16.3	X	51.94323	176.67250	110.38633	6.24278	0.1712659	0.23986664	2.5654062	20	10 30.3	19.8
233878 2008 WQ_{81}	15.4	X	189.04376	230.80115	174.05501	4.00230	0.3165303	0.12750899	3.9093887	20	5 9.6	22.3
233879 2008 WM_{91}	15.8	X	185.14299	58.13216	296.97615	8.61945	0.1046819	0.18810242	3.0167533	20	3 3.0	20.6
233880 Urbanpriol	16.3	X	38.00929	21.30724	340.80431	5.49430	0.1642123	0.17284122	3.1918159	20	12 27.2	20.7
233881 2008 WO_{101}	16.3	X	248.26150	12.08887	20.37214	5.63664	0.0807370	0.22401994	2.6850040	20	6 30.9	20.0
233882 2008 WR_{137}	15.8	X	12.60663	180.44400	101.43202	10.19296	0.0287673	0.21975731	2.7196133	20	8 3.3	19.3
233883 2008 XO_{5}	15.5	X	146.81179	225.97022	289.01899	13.88637	0.1753630	0.21837313	2.7310936	20	8 11.8	20.1
233884 2008 XP_{10}	16.0	X	116.05536	109.28120	174.71755	9.87026	0.1457010	0.25368974	2.4713492	20	12 27.3	20.0
233885 2008 XF_{11}	16.4	X	269.80636	199.96268	169.07903	7.20001	0.0355720	0.22092179	2.7100482	20	7 3.5	20.1
233886 2008 XQ_{18}	15.9	X	63.11903	195.82264	178.62636	1.59447	0.1450917	0.17345361	3.1842988	20	—	—
233887 2008 XC_{21}	15.8	X	31.23089	97.09667	256.87496	2.88901	0.1833422	0.24606809	2.5221206	20	12 30.0	19.0
233888 2008 XZ_{22}	16.1	X	258.55137	215.51678	175.14178	2.48369	0.0821455	0.22527130	2.6750514	20	7 10.9	19.6
233889 2008 XH_{42}	15.9	X	276.05262	258.65442	336.31954	2.96939	0.1271580	0.18272124	3.0756957	20	1 14.3	20.4
233890 2008 XV_{53}	15.6	X	112.26550	269.76844	91.64409	4.83243	0.1169923	0.18316075	3.0707734	20	—	—
233891 2008 XA_{54}	15.8	X	109.48275	138.51020	169.76166	3.03750	0.0764858	0.16853983	3.2458942	20	12 29.6	20.7
233892 2008 YE_{4}	15.7	X	86.85476	298.78700	126.10014	10.19531	0.0451616	0.18319812	3.0703558	20	2 5.4	19.9
233893 Honthyhanna	15.5	X	164.26315	268.42577	151.24254	3.53302	0.2141145	0.12593368	3.9419228	20	5 8.7	22.0
233894 2008 YK_{29}	15.7	X	30.11271	170.58861	275.77862	3.34495	0.1548591	0.17533013	3.1615375	20	—	—
233895 2008 YF_{49}	17.1	X	292.12760	54.30333	12.90125	2.38733	0.1270611	0.23302395	2.6153853	20	10 14.4	20.0
233896 2008 YB_{80}	16.3	X	3.26271	153.02065	143.79470	5.71115	0.0293987	0.21411600	2.7671751	20	8 8.1	20.0
233897 2008 YJ_{127}	16.5	X	194.03736	179.18414	108.54452	10.20402	0.2060999	0.25956897	2.4338895	20	—	—
233898 2008 YF_{135}	16.1	X	343.38604	129.66493	229.42892	3.28599	0.0592120	0.23730431	2.5838401	20	10 7.3	19.3
233899 2009 AB_{19}	16.2	X	144.14761	118.82086	133.12733	4.94829	0.1695993	0.23791302	2.5794309	20	12 11.8	20.4
233900 2009 AN_{24}	15.1	X	9.80255	195.80302	296.79239	15.94360	0.0954367	0.17681178	3.1438507	20	1 16.5	19.0
233901 2009 BT	15.5	X	60.46791	145.65554	293.53484	12.50242	0.1901940	0.17902115	3.1179309	20	2 3.0	19.2
233902 2009 BM_{7}	16.9	X	290.54225	257.68142	178.56738	4.27328	0.1593732	0.23449670	2.6044232	20	10 21.9	19.5
233903 2009 BD_{47}	16.6	X	202.23641	169.81643	299.78297	2.93191	0.0573063	0.21484759	2.7608897	20	8 16.9	20.6
233904 2009 BA_{128}	14.9	X	319.06338	92.71210	122.36821	11.99993	0.0149742	0.18012091	3.1052266	20	2 27.3	19.3
233905 2009 CU_{22}	15.4	X	126.97325	347.68758	307.46708	17.66852	0.2088826	0.24048061	2.5610379	20	—	—
233906 2009 CT_{38}	15.8	X	343.07250	214.01340	346.91457	8.62469	0.0752815	0.18434715	3.0575842	20	3 3.2	19.6
233907 2009 CA_{62}	15.3	X	84.40018	264.85109	172.87369	14.90160	0.1150129	0.17802570	3.1295430	20	2 26.5	19.6
233908 2009 CD_{62}	15.0	X	162.21072	270.18707	90.08450	10.53892	0.0920051	0.17513770	3.1638530	20	2 23.6	20.0
233909 2009 DF_{36}	16.4	X	264.07103	76.70149	92.07792	10.88190	0.0561217	0.24043937	2.5613308	20	—	—
233910 2009 FJ_{20}	14.7	X	156.77681	199.65461	168.66439	23.73571	0.1409294	0.17234093	3.1979900	20	2 26.4	19.8
233911 2009 FT_{38}	17.4	X	337.99259	115.08208	160.26092	1.24167	0.1998766	0.27677512	2.3319435	20	5 18.3	19.1
233912 2009 NC	15.9	X	283.55786	161.76852	230.76774	24.00392	0.1592648	0.26400087	2.4065736	20	7 30.5	19.4
233913 2009 QD_{58}	16.7	X	261.54482	273.96365	153.95055	7.84477	0.0881542	0.26717081	2.3875000	20	9 9.9	19.4
233914 2009 RD_{60}	15.4	X	331.21457	144.44560	220.28464	16.55594	0.2280400	0.17698007	3.1418575	20	9 3.2	18.9
233915 2009 RE_{73}	13.2	X	281.95072	225.10872	222.14076	4.38868	0.0501841	0.08483518	5.1296222	20	10 7.0	20.0
233916 2009 SV_{95}	16.0	X	323.53203	11.05177	341.17728	0.23509	0.2192061	0.17181316	3.2045356	20	8 5.6	19.4
233917 2009 SL_{129}	15.6	X	77.28162	122.66302	189.04526	13.76781	0.1251954	0.19043843	2.9920326	20	12 10.5	20.3
233918 2009 SU_{146}	13.5	X	315.25490	0.15866	53.44770	7.49669	0.0731002	0.08533448	5.1095935	20	10 10.5	20.0
233919 2009 SP_{154}	17.0	X	318.22874	4.00254	47.09984	1.15129	0.1651006	0.18165157	3.0877582	20	10 22.7	20.4
233920 2009 SD_{161}	16.6	X	201.91020	155.67334	200.56416	5.83967	0.2592465	0.23100828	2.6305770	20	3 18.9	21.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
233921 2009 SC_{320}	16.5	X	191.06338	185.88443	244.15257	1.04015	0.0780761	0.23741280	2.5830529	20	6 13.0	20.1
233922 2009 TT_{1}	16.2	X	170.36566	264.87243	92.17455	2.07528	0.3016511	0.22654598	2.6650078	20	2 29.9	21.1
233923 2009 TD_{20}	15.8	X	60.42055	123.68819	202.45823	1.30112	0.1724497	0.18455370	3.0553024	20	12 13.6	20.3
233924 2009 TM_{32}	15.5	X	296.02119	220.20584	206.02961	9.03116	0.0696890	0.17867945	3.1219047	20	10 14.0	19.6
233925 2009 UL_{2}	12.4	X	306.52601	148.13442	268.79715	13.49746	0.1485443	0.08195789	5.2489875	20	9 15.4	19.1
233926 2009 UN_{4}	17.5	X	295.86204	151.22413	287.21991	0.75583	0.1603224	0.27086963	2.3657155	20	11 14.4	19.5
233927 2009 UT_{32}	15.9	X	318.62764	207.77081	48.37261	5.74198	0.2824743	0.23381496	2.6094833	20	3 4.7	19.0
233928 2009 UY_{57}	17.3	X	14.54928	337.58025	2.26374	2.24670	0.2211024	0.27267211	2.3552783	20	12 1.5	19.8
233929 2009 UN_{83}	18.0	X	9.10601	205.28437	189.00167	1.90872	0.2091237	0.27938823	2.3173803	20	—	—
233930 2009 UG_{88}	16.2	X	56.28470	48.30850	57.97985	12.77467	0.2432899	0.21134532	2.7913072	20	3 15.1	19.4
233931 2009 UF_{103}	16.4	X	132.77111	330.52153	71.74881	5.95931	0.1686250	0.21881772	2.7273930	20	3 17.3	20.6
233932 2009 UZ_{136}	15.0	X	248.74516	231.65509	259.52644	13.70586	0.0916466	0.17492385	3.1664310	20	10 25.9	19.7
233933 2009 UY_{146}	16.1	X	90.99888	281.09004	277.98818	10.17386	0.1301189	0.23092118	2.6312384	20	8 9.7	19.9
233934 2009 VT_{16}	15.2	X	44.12233	60.52560	256.93596	13.34993	0.1961709	0.17506681	3.1647070	20	11 14.9	19.7
233935 2009 VE_{31}	16.6	X	204.63785	19.53082	31.60703	8.46272	0.1584818	0.23910839	2.5708269	20	5 29.1	20.8
233936 2009 VZ_{38}	17.1	X	305.93174	156.39296	268.07389	2.59667	0.1878838	0.26736716	2.3863310	20	11 11.2	18.8
233937 2009 VC_{50}	15.9	X	73.80163	88.31261	273.91038	0.89270	0.1434212	0.19532693	2.9419004	20	—	—
233938 2009 VM_{57}	15.1	X	28.51275	278.14283	63.13117	27.60508	0.1328186	0.17650894	3.1474457	20	11 18.3	19.2
233939 2009 VR_{58}	15.0	X	89.61555	222.84618	238.89397	6.76678	0.1832976	0.12529792	3.9552457	20	4 15.1	20.6
233940 2009 VH_{81}	15.3	X	22.39597	269.35638	82.61248	17.22227	0.1520961	0.17936983	3.1138889	20	11 26.3	19.4
233941 2009 WM_{5}	16.7	X	341.32806	120.58005	306.04933	0.14577	0.1690912	0.17508676	3.1644665	20	12 22.9	20.2
233942 2009 WH_{6}	15.7	X	303.89766	281.86707	210.07784	7.65598	0.0985268	0.18783026	3.0196667	20	—	—
233943 Falera	15.6	X	22.24311	108.00062	246.24247	8.14893	0.0834076	0.17625087	3.1505173	20	11 16.2	19.9
233944 2009 WL_{45}	16.2	X	142.93323	180.12126	216.27974	5.28083	0.0490316	0.21860411	2.7291695	20	3 3.3	20.0
233945 2009 WE_{74}	17.5	X	275.79749	343.87618	133.85377	2.06115	0.1427397	0.26962197	2.3730080	20	12 6.3	19.9
233946 2009 WG_{125}	15.9	X	151.96374	266.47449	87.34530	4.49127	0.1039905	0.21096572	2.7946545	20	1 30.5	20.1
233947 2009 WM_{141}	16.0	X	56.12149	75.77175	77.33322	15.14940	0.0453516	0.22614407	2.6681643	20	4 19.2	19.7
233948 2009 WQ_{169}	16.0	X	92.08691	150.96755	276.86586	3.23779	0.0528701	0.21143102	2.7905528	20	2 11.2	19.6
233949 2009 WC_{216}	16.8	X	17.84747	314.48161	115.58582	25.96795	0.3006946	0.28823087	2.2697379	20	—	—
233950 2009 WO_{252}	15.3	X	95.33240	311.61411	143.89869	3.55282	0.1580272	0.12425934	3.9772543	20	4 13.7	20.9
233951 2009 XJ	15.9	X	293.05219	45.44124	80.48004	4.24270	0.1278929	0.18190792	3.0848566	20	12 18.9	19.5
233952 2009 XQ_{9}	16.7	X	309.41505	12.71398	121.99364	5.60885	0.1467582	0.27986482	2.3147487	20	—	—
233953 2009 XS_{15}	15.1	X	39.90190	259.93198	112.99424	13.64318	0.0484112	0.17575852	3.1563983	20	12 27.1	19.5
233954 2009 XY_{16}	15.3	X	316.07765	334.84742	111.41814	13.77990	0.0703267	0.17191160	3.2033121	20	12 7.0	19.6
233955 2009 XB_{19}	15.1	X	327.90209	355.52692	112.62231	11.22351	0.0449049	0.17890063	3.1193311	20	—	—
233956 2009 XL_{19}	16.8	X	306.89641	7.64963	104.32663	6.87658	0.0871143	0.26958740	2.3732108	20	—	—
233957 2009 YQ_{16}	17.5	X	242.04700	67.00365	191.47509	1.19340	0.0631060	0.30018552	2.2090704	20	—	—
233958 2009 YP_{21}	16.4	X	104.05296	94.64501	1.95715	3.08374	0.1496371	0.21404449	2.7677914	20	4 17.1	20.3
233959 2009 YX_{21}	17.0	X	187.38016	101.35360	302.00712	3.41428	0.1696736	0.22476178	2.6790927	20	5 3.4	21.4
233960 2010 AX_{2}	15.0	X	328.30160	311.46773	102.83100	11.59247	0.0727675	0.16865003	3.2444801	20	11 15.7	19.4
233961 2010 AA_{3}	15.7	X	145.68167	307.04405	133.14555	15.02238	0.0666968	0.21809345	2.7334279	20	5 10.8	20.0
233962 2010 AY_{25}	15.6	X	146.28101	89.55294	309.50354	11.23627	0.1093130	0.21120396	2.7925525	20	3 13.9	19.9
233963 2010 AP_{31}	16.9	X	173.00175	12.58038	127.43240	5.42614	0.1657291	0.23664976	2.5886023	20	8 22.9	21.0
233964 2010 AC_{37}	17.1	X	308.26669	139.83702	334.16082	7.26811	0.1395689	0.26832729	2.3806350	20	—	—
233965 2010 AM_{59}	16.8	X	325.30109	97.51248	109.65842	5.78121	0.0921883	0.29494047	2.2351833	20	1 26.1	19.2
233966 2010 BS_{2}	16.4	X	191.82743	136.58297	316.50054	4.62994	0.1547086	0.23350252	2.6118106	20	7 11.7	20.4
233967 Vierkant	15.9	X	56.88923	223.89488	286.81736	5.17942	0.0214659	0.21614182	2.7498574	20	4 4.6	19.6
233968 3021 T–2	16.8	X	239.34595	225.99817	148.78713	2.41234	0.1876738	0.22591504	2.6699673	20	5 16.6	21.0
233969 1979 OK_{9}	15.7	X	34.77673	194.14715	154.64565	7.64126	0.2329932	0.24566167	2.5249015	20	—	—
233970 1981 ES_{44}	16.2	X	125.96890	258.57052	330.77446	11.88641	0.1354188	0.23798877	2.5788836	20	10 22.9	20.5
233971 1991 TD_{2}	17.4	X	237.77546	128.37565	177.99769	6.56851	0.2174279	0.29304487	2.2448120	20	2 11.9	21.0
233972 1992 PZ_{5}	16.7	X	7.14627	311.44417	342.61883	6.28351	0.3567846	0.31840580	2.1239717	20	10 17.2	18.3
233973 1993 FX_{4}	15.2	X	216.95104	102.05665	168.03069	10.25686	0.1884150	0.17244970	3.1966451	20	—	—
233974 1993 FG_{45}	16.2	X	115.16833	70.81716	15.54156	5.45379	0.0295638	0.21967622	2.7202826	20	4 1.5	19.7
233975 1994 RC_{7}	16.2	X	153.34883	90.09927	345.52825	4.94219	0.0343382	0.21579904	2.7527687	20	5 4.0	20.1
233976 1994 RC_{14}	16.1	X	183.27527	36.80494	347.97418	8.95798	0.1599299	0.21348910	2.7725895	20	4 5.9	20.7
233977 1994 UK_{9}	16.1	X	76.32334	260.58865	19.30494	13.02731	0.1933156	0.22963742	2.6410357	20	11 11.7	20.3
233978 1995 FD_{9}	17.3	X	227.59035	151.72165	60.84074	4.53955	0.1238448	0.26144233	2.4222490	20	—	—
233979 1995 LS	15.4	X	353.13617	76.36889	102.25606	13.04667	0.0864852	0.19054077	2.9909612	20	2 19.9	19.3
233980 1995 NF_{1}	14.5	X	27.45207	135.07097	154.43327	7.49058	0.2235380	0.12431562	3.9760539	20	9 14.2	19.3
233981 1995 OL_{2}	15.6	X	182.71335	136.06091	159.83011	11.81523	0.1248092	0.17734475	3.1375489	20	—	—
233982 1995 PW	16.4	X	218.85943	261.57040	35.66128	0.25436	0.1540273	0.18054186	3.1003979	20	1 30.6	21.5
233983 1995 SA_{16}	15.7	X	221.61063	111.60937	174.34882	14.08891	0.1511501	0.17839078	3.1252717	20	1 18.7	21.0
233984 1995 SF_{16}	17.5	X	77.65579	88.73430	185.36267	1.82461	0.1825139	0.24160739	2.5530691	20	11 10.4	21.3
233985 1995 SX_{30}	15.8	X	159.36291	322.05317	355.96305	4.16643	0.1145489	0.17504394	3.1649827	20	1 1.3	20.8
233986 1995 SV_{33}	15.8	X	244.93955	266.92805	354.63149	15.50374	0.1616128	0.17838077	3.1253886	20	1 16.3	21.0
233987 1995 UJ_{65}	17.6	X	336.05727	248.26592	33.52965	5.14788	0.1439778	0.30791791	2.1719313	20	5 30.2	19.3
233988 1995 VO_{3}	16.7	X	236.72240	291.02307	117.93206	3.82735	0.1228207	0.22772980	2.6557640	20	7 3.1	20.5
233989 1995 VY_{6}	18.2	X	66.63572	265.57646	183.55296	0.63577	0.1191371	0.29165638	2.2519309	20	1 28.2	20.2
233990 1995 WK_{17}	17.2	X	145.64702	203.90554	322.68184	2.47318	0.1415540	0.22944587	2.6425054	20	8 29.1	21.2
233991 1995 WU_{23}	16.5	X	202.66217	104.76563	33.00239	3.17226	0.0589294	0.23409596	2.6073946	20	9 26.9	20.2
233992 1996 GN_{3}	17.1	X	336.34004	77.59782	56.05552	5.35060	0.0735929	0.27686428	2.3314428	20	—	—
233993 1996 GS_{5}	16.4	X	337.82569	136.05771	145.82953	4.96895	0.0308337	0.21080514	2.7960736	20	6 12.2	20.0
233994 1996 RT_{6}	16.5	X	54.39784	259.43787	350.87273	5.44877	0.0958675	0.24486512	2.5303743	20	9 1.3	19.5
233995 1996 RH_{16}	16.2	X	291.30311	54.60883	186.02933	2.13194	0.0369065	0.18717171	3.0267455	20	2 17.3	20.5
233996 1996 RS_{21}	17.0	X	124.46484	236.17782	89.07890	1.03497	0.1650854	0.26201969	2.4186894	20	—	—
233997 1996 SF_{1}	15.7	X	194.41031	192.15762	94.64203	1.58007	0.1256814	0.18300413	3.0725252	20	—	—
233998 1996 TZ_{16}	15.5	X	307.30743	217.99834	320.22201	8.90825	0.0738990	0.18111315	3.0938748	20	—	—
233999 1996 VG_{35}	15.2	X	244.98125	344.04196	265.59520	8.58083	0.0571301	0.17990625	3.1076961	20	1 5.0	19.8
234000 1996 XP_{13}	16.2	X	210.69919	15.88863	70.72023	6.69426	0.3172035	0.23382224	2.6094291	20	7 11.8	20.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
234001 1997 AQ_{20}	16.1	X	330.66450	202.52991	157.91172	3.25489	0.2620901	0.23723502	2.5843432	20	9 17.7	17.8
234002 1997 CG_{11}	17.1	X	268.71404	279.89515	124.04843	4.61923	0.2424207	0.23574199	2.5952433	20	7 18.8	20.7
234003 1997 CR_{11}	16.5	X	141.41557	128.51606	312.06523	10.80215	0.1701713	0.22398829	2.6852569	20	5 4.9	21.0
234004 1997 EJ_{3}	17.3	X	318.26015	263.47716	359.70479	7.36556	0.0872419	0.30115401	2.2043317	20	4 3.8	19.5
234005 1997 ER_{28}	17.1	X	140.98529	160.67862	348.08529	2.52531	0.1136926	0.22582626	2.6706671	20	8 1.2	21.0
234006 1997 EW_{30}	16.5	X	80.65730	110.08040	350.56053	3.86115	0.0269984	0.21292935	2.7774465	20	3 6.4	20.1
234007 1997 ES_{31}	17.6	X	163.30899	62.68725	3.01184	6.10032	0.0698725	0.30384532	2.1912959	20	5 2.2	20.4
234008 1997 EL_{32}	16.9	X	321.60195	119.73323	180.10822	3.87673	0.0758976	0.22075232	2.7114350	20	6 8.7	20.3
234009 1997 EX_{39}	16.3	X	223.54142	300.92591	166.42747	5.89553	0.2556171	0.23577698	2.5949866	20	8 20.1	20.4
234010 1997 FO_{4}	15.3	X	117.89102	23.82866	197.06187	33.13699	0.1731087	0.22889213	2.6467656	20	10 11.2	19.5
234011 1997 HE_{7}	16.1	X	39.75023	41.14572	217.82766	12.40096	0.1243582	0.22181978	2.7027293	20	8 18.4	19.8
234012 1997 LF	17.3	X	255.03538	163.24601	160.84781	6.49831	0.2116779	0.29433627	2.2382411	20	3 23.3	20.5
234013 1997 LR_{16}	15.5	X	77.98230	153.97937	79.57271	13.31269	0.0817703	0.22265763	2.6959448	20	9 11.8	19.5
234014 1997 WJ_{11}	17.1	X	322.13991	47.48593	47.90052	4.03598	0.1949391	0.26218979	2.4176432	20	—	—
234015 1998 FJ_{2}	15.7	X	170.38510	129.01146	357.12304	30.63883	0.2178163	0.23925874	2.5697498	20	8 16.9	20.5
234016 1998 FP_{6}	15.4	X	161.42153	286.81249	35.30966	6.45769	0.1045326	0.16878537	3.2427454	20	1 8.5	20.4
234017 1998 ON_{3}	16.8	X	111.23740	68.69641	187.87015	3.35364	0.1741752	0.23556558	2.5965388	20	11 18.9	20.9
234018 1998 QX_{44}	15.6	X	219.85110	186.80552	173.97701	13.94444	0.1979902	0.21067284	2.7972440	20	4 12.9	20.3
234019 1998 QH_{58}	17.1	X	289.97141	294.28443	349.96790	6.00490	0.0051724	0.30015666	2.2092120	20	4 5.2	19.6
234020 1998 RT_{10}	16.6	X	177.56922	308.97730	127.02362	0.69457	0.0460652	0.21365359	2.7711663	20	6 5.4	20.5
234021 1998 RV_{13}	17.4	X	149.14459	41.37537	353.15755	8.45272	0.1266208	0.29540784	2.2328251	20	3 11.2	20.5
234022 1998 RR_{44}	15.7	X	287.66364	183.73591	154.93999	12.64477	0.1804376	0.21676206	2.7446093	20	5 28.4	19.6
234023 1998 RP_{62}	16.1	X	12.73223	137.87723	171.19324	12.82594	0.2339744	0.22487641	2.6781822	20	10 7.9	18.8
234024 1998 SC_{33}	17.3	X	55.80242	66.46852	354.86693	18.02808	0.1060528	0.37720766	1.8970657	20	—	—
234025 1998 SA_{34}	15.2	X	18.64695	317.98437	353.38360	16.76477	0.2284625	0.22516272	2.6759114	20	10 12.5	18.3
234026 Unioneastrofili	17.3	X	235.50925	208.16480	141.83014	2.67932	0.2021320	0.30199550	2.2002350	20	4 7.7	20.7
234027 1998 SF_{47}	17.7	X	126.49992	8.92016	29.27388	3.39540	0.1745096	0.29042917	2.2582702	20	2 26.6	20.6
234028 1998 SY_{55}	16.9	X	215.09525	165.08600	179.27561	6.44322	0.2107500	0.29880288	2.2158798	20	3 11.9	20.6
234029 1998 SD_{78}	15.9	X	29.03073	108.72229	189.03787	12.64786	0.1940355	0.22571165	2.6715711	20	10 12.1	19.0
234030 1998 SR_{78}	16.0	X	296.90485	175.92739	191.71743	14.46208	0.2035857	0.21975279	2.7196506	20	7 12.7	19.5
234031 1998 SL_{90}	16.0	X	9.03618	141.36788	158.68602	11.79407	0.1841035	0.22323521	2.6912926	20	9 7.7	18.7
234032 1998 SS_{136}	16.5	X	61.37524	303.62934	35.73110	11.04029	0.1920677	0.27778964	2.3262623	20	—	—
234033 1998 TF_{15}	16.6	X	290.57571	102.45672	226.01494	0.97167	0.0737654	0.21131249	2.7915963	20	6 1.6	20.1
234034 1998 UE_{44}	16.5	X	229.42218	348.67044	346.66475	1.64915	0.0809889	0.20502978	2.8483373	20	3 26.5	20.7
234035 1998 VZ_{42}	16.3	X	319.57237	76.04637	46.16338	7.79680	0.1601584	0.18605115	3.0388864	20	—	—
234036 1998 VZ_{48}	16.2	X	231.83527	214.60593	87.34776	3.23630	0.0488793	0.19874029	2.9081185	20	2 21.8	20.4
234037 1998 VG_{57}	17.9	X	335.93474	60.32850	46.01033	2.49759	0.3894761	0.27495171	2.3422420	20	—	—
234038 1998 WD_{38}	16.4	X	196.32419	335.75630	55.74352	2.88911	0.0821785	0.20618738	2.8376664	20	4 30.5	20.8
234039 1998 WP_{42}	15.4	X	355.39634	305.06182	53.41786	29.57408	0.2684284	0.22499853	2.6772130	20	11 16.7	17.9
234040 1998 XF_{1}	17.3	X	357.79945	32.76630	71.87148	7.07579	0.1976881	0.27879876	2.3206456	20	—	—
234041 1998 XA_{19}	17.3	X	34.98540	2.91161	85.87059	3.59998	0.1251809	0.28207892	2.3026201	20	—	—
234042 1999 AH_{32}	16.2	X	308.98565	120.45321	103.27395	2.23389	0.1160030	0.18944247	3.0025102	20	2 8.2	20.3
234043 1999 BS_{4}	15.8	X	349.64328	177.31657	323.91659	8.50640	0.2019884	0.18293130	3.0733406	20	—	—
234044 1999 BU_{26}	15.5	X	356.58592	252.74763	298.49652	7.98783	0.0155870	0.19298861	2.9656161	20	3 8.5	19.7
234045 1999 CF_{7}	15.2	X	295.73308	115.50918	329.62870	26.02729	0.2625230	0.17306712	3.1890378	20	9 26.9	19.5
234046 1999 CH_{29}	15.6	X	330.18693	196.58645	330.60059	5.75469	0.1941959	0.18319233	3.0704205	20	—	—
234047 1999 CY_{49}	15.7	X	18.57416	102.70366	24.14355	6.61782	0.2643761	0.18579450	3.0416844	20	1 17.8	18.4
234048 1999 CL_{132}	15.4	X	298.82367	28.33409	138.62329	17.96857	0.1549000	0.17968027	3.1103012	20	—	—
234049 1999 CO_{147}	16.7	X	181.86417	319.93210	346.70093	7.29039	0.1176708	0.27223592	2.3577935	20	—	—
234050 1999 CX_{148}	17.5	X	27.28612	285.27065	174.22693	2.45039	0.1212180	0.27512627	2.3412512	20	—	—
234051 1999 EZ_{9}	17.2	X	251.08974	303.43294	325.86367	2.97004	0.1179602	0.27600786	2.3362631	20	1 17.9	20.6
234052 1999 EL_{14}	15.8	X	27.26252	93.34549	19.43782	1.46452	0.0437179	0.18137019	3.0909510	20	1 17.1	19.9
234053 1999 FR_{1}	16.9	X	226.30073	300.23361	337.36102	2.78287	0.1172505	0.27386255	2.3484480	20	1 3.5	20.3
234054 1999 FF_{12}	15.6	X	332.75142	115.09883	352.73923	9.78818	0.2400676	0.17717045	3.1396063	20	—	—
234055 1999 FO_{17}	16.2	X	251.18148	106.65899	115.21787	0.41891	0.1475713	0.17394746	3.1782691	20	—	—
234056 1999 FZ_{19}	15.3	X	188.13609	133.36474	183.53962	6.61836	0.0230193	0.18121220	3.0927473	20	1 21.9	19.9
234057 1999 FZ_{79}	17.0	X	341.55466	309.98372	135.09915	5.36643	0.1563617	0.26535394	2.3983857	20	—	—
234058 1999 FK_{84}	15.2	X	227.16634	13.73784	246.15772	7.95450	0.0188901	0.18083844	3.0970072	20	—	—
234059 1999 GT_{15}	15.3	X	309.53651	88.62241	39.00012	6.85497	0.0307495	0.16898674	3.2401688	20	—	—
234060 1999 GY_{63}	16.3	X	328.91662	57.51665	102.41690	0.17273	0.1225242	0.17944536	3.1130151	20	—	—
234061 1999 HE_{1}	17.6	X	264.10565	221.95947	65.81900	8.16638	0.5728013	0.27159123	2.3615232	20	1 27.4	22.7
234062 1999 HL_{1}	15.6	X	325.19365	309.36347	206.84447	27.03282	0.3683660	0.17911325	3.1168620	20	—	—
234063 1999 HO_{6}	15.4	X	310.93053	54.20269	109.25592	17.26908	0.2131629	0.17403355	3.1772208	20	—	—
234064 1999 JB_{70}	14.6	X	256.71325	197.22160	56.12797	18.16468	0.1531522	0.17650288	3.1475177	20	1 16.2	19.8
234065 1999 JJ_{115}	16.7	X	189.56945	241.92724	49.33975	6.31918	0.1288628	0.26452433	2.4033976	20	—	—
234066 1999 LD_{15}	15.5	X	266.23295	106.85845	100.82104	26.81612	0.2832002	0.17300085	3.1898522	20	—	—
234067 1999 LB_{30}	17.0	X	209.36883	179.38641	94.25781	3.28103	0.1980962	0.26499250	2.4005660	20	—	—
234068 1999 LU_{30}	16.5	X	173.79448	230.96174	83.03536	5.98917	0.1448000	0.26492687	2.4009625	20	—	—
234069 1999 OA	16.1	X	320.86066	197.11534	181.36014	14.75152	0.1273009	0.23889732	2.5723410	20	9 28.1	18.5
234070 1999 PV_{1}	15.4	X	333.62768	1.10864	340.14531	11.42970	0.1943382	0.23412200	2.6072013	20	8 26.0	17.6
234071 1999 RG_{141}	16.0	X	337.26180	122.91048	244.58944	1.25135	0.1902561	0.23689601	2.5868081	20	10 14.8	18.2
234072 1999 RJ_{190}	16.2	X	282.50572	256.44501	120.41444	1.91251	0.1530920	0.23033020	2.6357373	20	7 14.7	19.4
234073 1999 RT_{193}	15.8	X	322.81868	21.29378	318.16575	7.19245	0.1796494	0.23166130	2.6256312	20	7 29.2	18.4
234074 1999 RX_{251}	15.5	X	286.60153	38.63425	305.01307	18.62262	0.1988725	0.22750302	2.6575286	20	5 25.5	19.4
234075 1999 RS_{253}	15.7	X	199.52506	96.74321	352.35833	14.56736	0.0809247	0.22815206	2.6524861	20	7 22.2	19.8
234076 1999 SB_{3}	14.3	X	168.39641	60.56488	354.15151	32.03261	0.3394957	0.21432434	2.7653815	20	4 19.5	20.0
234077 1999 SH_{26}	15.8	X	173.67536	265.63969	70.29516	8.96829	0.3074952	0.21220961	2.7837230	20	2 11.5	21.0
234078 1999 TO_{12}	16.4	X	337.10765	175.97085	167.64319	4.68745	0.2520926	0.23269762	2.6178299	20	9 5.5	18.2
234079 1999 TO_{48}	17.2	X	159.76030	330.04637	143.36350	2.27115	0.1492625	0.22285088	2.6943860	20	7 6.0	21.5
234080 1999 TP_{54}	16.6	X	318.02984	334.15668	339.22394	1.78381	0.0530016	0.22435605	2.6823216	20	6 24.5	19.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
234081 1999 TE_{70}	16.3	X	352.13277	93.65038	223.62319	1.05600	0.2124117	0.23157039	2.6263183	20	8 31.2	18.3
234082 1999 TF_{70}	16.8	X	293.78305	102.49468	244.34433	0.61681	0.1233294	0.22586100	2.6703932	20	6 24.2	20.0
234083 1999 TT_{98}	16.0	X	141.62472	265.59152	155.66696	8.10907	0.3023339	0.21319019	2.7751805	20	4 27.1	20.9
234084 1999 TN_{99}	15.9	X	282.43355	184.44059	161.60843	13.52512	0.2976775	0.22634847	2.6665579	20	5 14.5	19.9
234085 1999 TE_{104}	15.4	X	312.69289	325.76374	8.07477	15.47535	0.1757729	0.22779171	2.6552827	20	6 30.9	18.7
234086 1999 TV_{113}	16.8	X	343.62520	39.42391	319.23509	2.02701	0.2447527	0.23547864	2.5971779	20	10 19.5	18.6
234087 1999 TG_{133}	15.7	X	285.77505	3.23816	9.27514	15.51670	0.1305692	0.22842224	2.6503941	20	7 22.7	19.3
234088 1999 TS_{133}	16.7	X	229.45625	213.46513	201.65423	4.69945	0.1728324	0.22489620	2.6780250	20	6 27.6	20.9
234089 1999 TS_{158}	15.9	X	357.49366	1.77922	337.60189	14.37878	0.1256871	0.23756088	2.5819793	20	10 2.6	18.9
234090 1999 TQ_{159}	16.3	X	337.62666	154.31869	206.44858	5.15919	0.2662487	0.23501668	2.6005802	20	10 8.1	17.7
234091 1999 TC_{167}	16.6	X	43.35775	302.85041	346.73617	10.38602	0.1932153	0.23636971	2.5906466	20	10 18.4	20.1
234092 1999 TU_{168}	16.4	X	330.05359	358.40619	338.51349	2.32088	0.1920740	0.23102874	2.6304217	20	8 9.1	18.5
234093 1999 TL_{170}	14.8	X	228.29624	352.25982	15.62957	2.75136	0.2498772	0.12478785	3.9660164	20	4 25.5	21.3
234094 1999 TN_{183}	16.6	X	61.34935	170.65652	171.14939	6.48911	0.1930588	0.24290924	2.5439390	20	—	—
234095 1999 TO_{184}	15.6	X	311.14387	30.98040	316.87917	12.05578	0.1799717	0.22938438	2.6429777	20	7 18.9	18.5
234096 1999 TT_{227}	16.4	X	215.40700	181.94837	219.14188	1.90598	0.1097644	0.22056187	2.7129956	20	5 31.5	20.3
234097 1999 TG_{235}	16.5	X	14.05713	171.34987	167.23544	2.88393	0.1399330	0.23641753	2.5902972	20	11 7.6	19.4
234098 1999 TJ_{243}	16.3	X	143.16133	194.37645	201.18989	4.51209	0.0534158	0.21442906	2.7644811	20	3 4.1	20.2
234099 1999 TO_{293}	16.2	X	184.77211	74.04895	14.10318	11.15426	0.2029204	0.22008797	2.7168887	20	6 27.2	21.0
234100 1999 TU_{299}	16.1	X	12.83349	273.30675	36.31827	11.01105	0.0633852	0.22988195	2.6391625	20	9 19.5	19.4
234101 1999 UK_{37}	16.7	X	46.84095	105.63928	187.35068	7.59798	0.1595447	0.23677819	2.5876662	20	10 27.9	20.2
234102 1999 UK_{42}	16.4	X	147.45008	56.91651	352.35150	8.28328	0.3234070	0.21275997	2.7789204	20	4 13.2	21.4
234103 1999 UO_{52}	16.1	X	217.53463	224.68402	172.60787	8.37506	0.2899307	0.22009952	2.7167936	20	5 20.2	21.1
234104 1999 UA_{57}	16.8	X	310.08376	117.33822	235.12380	2.62261	0.0943469	0.22710203	2.6606559	20	8 1.0	19.8
234105 1999 VP_{15}	15.9	X	159.14527	68.33087	20.11808	13.49490	0.1637012	0.21843817	2.7305514	20	6 1.4	20.5
234106 1999 VU_{39}	15.8	X	121.87747	219.92925	196.00521	4.87362	0.0656503	0.21209513	2.7847246	20	3 6.3	19.7
234107 1999 VP_{42}	16.6	X	227.55896	73.02449	337.87124	2.32960	0.1304874	0.22329886	2.6907811	20	6 24.5	20.6
234108 1999 VR_{82}	16.6	X	335.02963	160.39966	198.76199	6.11793	0.1262440	0.23521948	2.5990853	20	9 24.6	19.3
234109 1999 VA_{116}	16.3	X	43.48595	170.43125	111.77250	2.28718	0.0471686	0.22864565	2.6486674	20	9 20.2	19.6
234110 1999 VL_{126}	16.1	X	214.51724	40.48583	29.52993	9.91981	0.0433579	0.22577835	2.6710449	20	7 15.3	20.0
234111 1999 VU_{130}	16.5	X	96.42056	209.62465	30.80874	3.07109	0.1222750	0.23116965	2.6293526	20	10 11.3	20.3
234112 1999 VD_{167}	16.5	X	237.35461	93.75397	317.68305	1.86386	0.1819707	0.22275109	2.6951906	20	6 30.5	20.4
234113 1999 VY_{167}	15.5	X	113.05302	82.23687	50.75306	14.22570	0.2587489	0.21285901	2.7780583	20	6 23.9	20.2
234114 1999 VH_{186}	15.9	X	125.24032	27.72000	60.31377	11.72499	0.2439371	0.21234651	2.7825264	20	5 10.6	20.5
234115 1999 VT_{218}	16.4	X	166.34308	2.56872	196.43281	8.40805	0.1005414	0.23928730	2.5695454	20	11 1.3	20.2
234116 1999 VX_{224}	16.1	X	245.54365	221.26099	192.61515	7.76721	0.1936994	0.22482098	2.6786224	20	7 9.8	20.3
234117 1999 WZ_{12}	15.7	X	126.77045	157.17728	320.53543	12.20382	0.1928868	0.21476553	2.7615929	20	6 12.5	20.3
234118 1999 XO_{2}	16.6	X	273.96823	190.17550	208.89147	2.06860	0.0795247	0.22616374	2.6680097	20	8 12.9	20.0
234119 1999 XZ_{2}	15.3	X	198.39782	311.39083	77.41194	10.48901	0.2037899	0.21647443	2.7470400	20	4 29.6	20.1
234120 1999 XD_{23}	15.8	X	265.98409	151.70015	231.67049	12.45173	0.2602106	0.22593469	2.6698125	20	6 14.8	19.8
234121 1999 XJ_{51}	15.2	X	198.65589	346.68471	69.34558	16.07476	0.2362966	0.21822068	2.7323654	20	5 28.9	20.0
234122 1999 XP_{111}	15.4	X	136.10328	207.77325	217.87023	12.91354	0.1799699	0.21419095	2.7665295	20	4 15.6	19.8
234123 1999 XJ_{130}	15.4	X	60.10507	89.40479	303.21289	5.53414	0.3487263	0.19822376	2.9131683	20	—	—
234124 1999 XM_{140}	15.4	X	78.18557	118.15720	108.02743	14.44929	0.2364548	0.21539774	2.7561866	20	9 20.6	19.9
234125 1999 XN_{219}	16.5	X	125.99612	327.87630	100.39524	3.20964	0.0417340	0.20481642	2.8503150	20	3 27.2	20.5
234126 1999 YQ_{15}	16.2	X	101.73173	26.96692	205.99135	3.52046	0.1385985	0.22776602	2.6554824	20	10 7.7	20.3
234127 1999 YQ_{23}	17.0	X	267.51075	201.22115	151.74333	2.41799	0.0930762	0.21998009	2.7177769	20	5 31.7	20.6
234128 1999 YL_{24}	16.4	X	220.39978	277.15872	107.25064	6.23356	0.0902401	0.21270892	2.7793649	20	5 18.4	20.6
234129 2000 AN_{129}	15.2	X	31.59019	258.12743	135.45312	18.36404	0.2931290	0.23795411	2.5791340	20	—	—
234130 2000 BX_{32}	17.5	X	152.75772	297.53169	120.60362	4.65744	0.1591592	0.30444050	2.1884389	20	4 20.1	20.7
234131 2000 BY_{36}	16.4	X	267.79591	29.56644	319.25866	4.28958	0.0863173	0.21126081	2.7920515	20	5 26.2	20.3
234132 2000 BL_{37}	16.6	X	227.17146	292.96175	122.29735	3.31783	0.0880448	0.21627431	2.7487343	20	7 3.7	20.5
234133 2000 CQ_{139}	17.7	X	202.34997	214.19417	128.54613	5.99951	0.1924970	0.30043713	2.2078369	20	2 29.8	21.2
234134 2000 CO_{142}	17.0	X	133.23320	138.99247	299.64810	0.99472	0.0476320	0.20526396	2.8461705	20	4 16.6	21.0
234135 2000 DJ_{11}	15.5	X	279.86411	306.10522	177.58904	5.49683	0.1055911	0.17802161	3.1295909	20	11 29.0	19.6
234136 2000 DT_{16}	17.3	X	67.48212	137.93990	338.75156	8.15546	0.1142502	0.29665308	2.2265723	20	3 9.1	19.4
234137 2000 DC_{59}	16.1	X	107.36078	313.97708	165.02098	6.62938	0.0103253	0.20349132	2.8626755	20	5 3.8	20.1
234138 2000 DC_{100}	16.9	X	119.80679	20.42237	108.71114	3.92896	0.1087277	0.30493336	2.1860802	20	6 13.7	19.6
234139 2000 DE_{102}	16.8	X	224.70669	118.32258	108.69521	4.62868	0.1417515	0.28061224	2.3106366	20	—	—
234140 2000 DE_{103}	15.6	X	320.19533	175.59142	11.29773	10.64416	0.0617528	0.19218221	2.9739062	20	1 17.9	19.8
234141 2000 EJ_{9}	17.2	X	86.21899	328.35735	144.09014	4.67985	0.0762083	0.29834665	2.2181382	20	3 30.5	19.6
234142 2000 EA_{22}	16.6	X	291.17592	87.55970	151.87135	23.52361	0.1944484	0.28930027	2.2641411	20	1 12.1	20.2
234143 2000 EY_{44}	16.9	X	64.82890	153.65841	350.66819	5.95156	0.0836120	0.29705019	2.2245875	20	4 10.2	19.3
234144 2000 ET_{50}	16.0	X	60.65045	148.67396	99.58768	13.23723	0.1082670	0.21057425	2.7981170	20	9 9.7	20.0
234145 2000 EW_{70}	21.3	X	357.42627	125.76184	178.04587	5.42752	0.3213236	1.08568312	0.9375634	20	—	—
234146 2000 EM_{101}	16.0	X	275.97378	291.33633	346.69166	3.74788	0.1090220	0.19690361	2.9261748	20	3 5.6	20.1
234147 2000 FP	16.2	X	258.51713	164.60363	355.88007	3.06936	0.1362001	0.17827005	3.1266826	20	12 9.8	20.4
234148 2000 FF_{1}	16.3	X	301.02338	100.71035	93.75676	22.50415	0.2762692	0.28573399	2.2829415	20	—	—
234149 2000 FG_{4}	16.0	X	259.10402	246.67579	357.82296	4.92696	0.1034010	0.18720489	3.0263879	20	1 10.2	20.7
234150 2000 FO_{14}	17.5	X	155.08058	292.95410	73.57603	0.78423	0.1021280	0.28883192	2.2665880	20	2 8.0	20.5
234151 2000 FX_{18}	15.7	X	50.15172	312.43911	152.91692	17.68076	0.3247850	0.19599070	2.9352544	20	3 11.3	18.4
234152 2000 GK_{11}	16.6	X	346.99846	206.13885	11.18494	9.42849	0.1159530	0.29510330	2.2343610	20	3 14.6	18.6
234153 2000 GL_{26}	15.6	X	234.00077	103.85529	192.43059	10.55268	0.0488652	0.19139756	2.9820284	20	2 14.3	20.1
234154 2000 GP_{62}	15.8	X	7.39440	141.01918	21.04751	10.52046	0.0563377	0.19126203	2.9834370	20	2 22.3	19.8
234155 2000 GO_{150}	17.8	X	242.80090	130.64913	170.90506	1.53470	0.1651389	0.28941434	2.2635462	20	2 14.3	21.1
234156 2000 GO_{165}	15.5	X	100.66021	233.29926	195.33240	10.89520	0.0123449	0.19195548	2.9762475	20	2 18.1	19.8
234157 2000 GE_{168}	16.9	X	353.36648	152.97010	71.44111	4.58500	0.0819714	0.29563000	2.2317063	20	4 10.2	19.1
234158 2000 HQ_{4}	17.6	X	340.59712	110.99417	70.46132	4.27928	0.1114830	0.28819939	2.2699032	20	1 10.9	20.1
234159 2000 HB_{16}	16.9	X	252.80555	256.19774	42.16261	7.41064	0.1290885	0.28886458	2.2664172	20	2 26.9	20.2
234160 2000 HS_{72}	16.5	X	251.26159	323.64062	24.29795	6.95146	0.2058781	0.29683521	2.2256615	20	4 18.8	19.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
234161 2000 HP_{82}	17.4	X	311.78682	104.82302	155.88855	1.62335	0.1564721	0.29206762	2.2498166	20	3 11.8	20.0
234162 2000 HM_{103}	15.6	X	277.97542	81.04093	170.05793	12.98667	0.1886542	0.18810657	3.0167089	20	1 25.4	20.4
234163 2000 JB_{86}	15.0	X	161.25929	128.33468	157.00952	27.63658	0.2262266	0.17380381	3.1800200	20	—	—
234164 2000 KD_{2}	16.0	X	251.33578	42.78293	144.59937	23.61096	0.1899514	0.27750412	2.3278577	20	—	—
234165 2000 KF_{57}	14.7	X	202.35501	142.99092	126.18242	23.98214	0.0084562	0.18074840	3.0980356	20	—	—
234166 2000 KD_{67}	14.5	X	223.08573	71.96324	150.10857	22.86097	0.3126038	0.17548340	3.1596965	20	12 23.6	20.0
234167 2000 KV_{69}	17.2	X	248.39497	80.74915	226.77899	1.09656	0.2894696	0.28484921	2.2876665	20	2 19.9	21.2
234168 2000 LB	15.6	X	274.28031	110.22037	236.15559	7.60961	0.2088536	0.23985412	2.5654955	20	5 13.8	19.0
234169 2000 LR	16.8	X	271.28811	199.46223	43.73492	6.20371	0.1235098	0.28294305	2.2979295	20	1 4.6	20.0
234170 2000 LG_{22}	16.9	X	5.85659	29.80297	139.38816	6.69094	0.0577938	0.28740021	2.2741093	20	2 9.5	19.4
234171 2000 LB_{28}	16.8	X	247.60346	169.75084	103.24350	7.02753	0.1592718	0.28014840	2.3131863	20	1 16.0	20.3
234172 2000 ND_{18}	15.0	X	189.51676	318.28743	325.94042	13.68330	0.2352269	0.17210122	3.2009588	20	—	—
234173 2000 NO_{18}	17.0	X	233.35330	199.89943	92.21462	3.70771	0.2198357	0.27887365	2.3202301	20	1 25.2	20.8
234174 2000 OJ_{2}	17.0	X	123.22393	77.13696	269.10221	0.49027	0.1924941	0.26856143	2.3792512	20	—	—
234175 2000 OH_{36}	15.4	X	231.08262	109.05825	209.24930	6.68746	0.2159467	0.18204773	3.0832769	20	2 28.9	20.7
234176 2000 OS_{54}	17.5	X	276.29054	137.38097	127.37344	3.08891	0.2305176	0.28307332	2.2972244	20	1 26.5	21.0
234177 2000 QZ_{1}	15.7	X	257.37646	190.73478	147.91155	14.27618	0.3045407	0.23588955	2.5941610	20	4 10.9	20.2
234178 2000 QW_{6}	16.5	X	253.08847	241.03387	151.67016	13.10562	0.3183795	0.23910785	2.5708308	20	6 9.7	21.0
234179 2000 QJ_{7}	16.1	X	186.67918	305.73545	347.53623	12.42217	0.2489621	0.27156753	2.3616606	20	—	—
234180 2000 QK_{15}	17.0	X	70.89265	148.82052	213.83185	0.68416	0.2210824	0.26203872	2.4185723	20	—	—
234181 2000 QS_{16}	16.8	X	94.55000	348.43443	316.56027	1.90818	0.1928060	0.26015018	2.4302631	20	—	—
234182 2000 QT_{17}	16.9	X	211.69560	263.66376	339.96318	4.65939	0.1971104	0.26959315	2.3731771	20	—	—
234183 2000 QU_{46}	16.9	X	166.69520	333.26488	348.40074	3.53769	0.1609989	0.27130607	2.3631777	20	1 2.6	20.3
234184 2000 QT_{53}	16.7	X	185.23752	178.88282	140.54333	7.14755	0.2546039	0.27388456	2.3483222	20	1 20.8	20.8
234185 2000 QM_{70}	16.9	X	39.35670	230.76070	153.25333	23.88972	0.0994199	0.35829015	1.9632675	20	—	—
234186 2000 QB_{80}	16.6	X	138.57698	136.48058	177.27948	5.94173	0.2217402	0.26575303	2.3959839	20	—	—
234187 2000 QP_{80}	16.9	X	121.47332	152.19456	185.29510	2.35087	0.2055856	0.26531666	2.3986103	20	—	—
234188 2000 QN_{91}	16.1	X	247.89520	78.74595	330.00894	9.02334	0.3198633	0.23816304	2.5776254	20	6 24.0	20.4
234189 2000 QU_{94}	17.2	X	231.90694	278.59791	7.01109	9.59177	0.2399373	0.27748250	2.3279786	20	1 17.9	21.3
234190 2000 QM_{99}	16.5	X	174.58129	255.96839	50.72713	2.90088	0.2056510	0.26958324	2.3732352	20	—	—
234191 2000 QA_{126}	16.0	X	50.22337	359.26726	353.15926	9.87218	0.2734237	0.25669082	2.4520491	20	—	—
234192 2000 QU_{136}	16.5	X	270.32125	101.80459	172.65080	5.23680	0.2111060	0.28183225	2.3039635	20	2 2.8	20.0
234193 2000 QK_{140}	16.1	X	187.33990	233.20577	171.33382	11.81037	0.1952162	0.23020765	2.6366727	20	5 8.7	20.7
234194 2000 QS_{142}	16.3	X	183.52321	317.51999	6.57327	12.07887	0.2370658	0.27222341	2.3578657	20	1 29.0	20.4
234195 2000 QH_{153}	16.4	X	199.92296	32.46058	283.72805	2.44690	0.2403643	0.27624144	2.3349460	20	1 27.5	20.4
234196 2000 QT_{156}	16.3	X	260.72737	159.09616	211.59713	8.53706	0.1727264	0.23916658	2.5704099	20	6 4.7	20.0
234197 2000 QE_{180}	15.9	X	216.11906	79.32832	352.10087	27.89411	0.3720040	0.23485754	2.6017548	20	6 27.0	21.3
234198 2000 QN_{191}	17.1	X	217.68459	205.73146	90.13949	4.91157	0.2576522	0.27618989	2.3352365	20	1 17.5	21.2
234199 2000 QH_{203}	16.9	X	109.45615	206.62604	139.45166	6.15179	0.1456292	0.26495556	2.4007892	20	—	—
234200 2000 QA_{205}	16.9	X	110.08633	45.13230	304.58548	1.06708	0.1688331	0.26495088	2.4008175	20	—	—
234201 2000 QK_{208}	16.6	X	210.01283	145.64240	166.34941	11.73410	0.2204632	0.27481608	2.3430126	20	1 28.9	20.7
234202 2000 QP_{219}	17.0	X	173.25555	207.50084	105.34022	2.57194	0.1932111	0.27212718	2.3584216	20	—	—
234203 2000 QN_{229}	16.2	X	171.77384	227.93234	169.25007	12.64328	0.2834096	0.22643704	2.6658625	20	4 18.9	21.1
234204 2000 RM_{22}	16.8	X	124.69003	89.32908	239.15757	3.89558	0.2436379	0.26480037	2.4017271	20	—	—
234205 2000 RW_{58}	16.5	X	139.39577	117.72183	209.84249	4.80635	0.1733211	0.26534647	2.3984307	20	—	—
234206 2000 RN_{69}	16.6	X	149.94627	258.59387	56.00593	2.91120	0.2465193	0.26701094	2.3884529	20	—	—
234207 2000 RV_{88}	15.7	X	187.45921	118.28471	187.11355	20.11711	0.2567348	0.17300766	3.1897685	20	1 14.1	21.6
234208 2000 SH_{11}	16.8	X	354.12650	58.89282	6.17354	20.76234	0.1014920	0.35534752	1.9740911	20	—	—
234209 2000 SJ_{18}	16.3	X	270.59143	209.07521	218.75243	11.98546	0.2519066	0.24323466	2.5416695	20	8 17.6	19.9
234210 2000 SG_{40}	16.3	X	107.68266	181.40164	159.95078	6.92258	0.1342479	0.26199268	2.4188556	20	—	—
234211 2000 SM_{44}	16.8	X	295.50784	227.02823	232.11715	18.71783	0.1135175	0.35344560	1.9811666	20	—	—
234212 2000 SQ_{54}	16.9	X	96.33544	31.12858	318.70976	0.54280	0.2008724	0.26277207	2.4140703	20	—	—
234213 2000 SH_{63}	16.7	X	262.33478	29.27047	30.85984	5.29699	0.2658042	0.24067814	2.5596364	20	7 31.8	20.2
234214 2000 SC_{70}	17.4	X	237.83033	246.21218	159.51412	1.76323	0.2791107	0.23599475	2.5933900	20	6 14.6	21.6
234215 2000 SB_{77}	17.3	X	45.31945	340.88671	6.63453	1.28286	0.1932657	0.25541756	2.4601913	20	—	—
234216 2000 SX_{104}	15.2	X	254.85828	142.10252	192.02310	22.91106	0.1859007	0.18240447	3.0792556	20	4 13.3	20.0
234217 2000 SC_{113}	16.3	X	235.26135	236.92049	190.87472	10.03959	0.2422596	0.23717866	2.5847526	20	7 12.0	20.6
234218 2000 SD_{114}	16.7	X	167.31312	158.30502	174.10034	4.01755	0.2306704	0.26997288	2.3709513	20	1 20.8	20.6
234219 2000 SX_{114}	16.3	X	50.53529	3.95338	19.92413	7.31404	0.1615465	0.25825095	2.4421636	20	—	—
234220 2000 SK_{118}	16.3	X	131.75421	264.64810	59.16857	3.21564	0.2025327	0.26354440	2.4093516	20	—	—
234221 2000 SZ_{140}	16.4	X	142.09267	318.65278	328.69353	5.33672	0.1857750	0.26095467	2.4252658	20	—	—
234222 2000 SF_{141}	16.7	X	244.54933	47.26164	333.23868	4.04577	0.3141737	0.23495745	2.6010173	20	5 15.5	21.2
234223 2000 SR_{142}	14.6	X	146.27366	181.28809	220.73092	26.48810	0.1496747	0.17263496	3.1943577	20	3 24.4	19.9
234224 2000 SZ_{144}	16.3	X	130.71335	107.77729	209.14549	5.59432	0.1570629	0.26252091	2.4156098	20	—	—
234225 2000 SQ_{168}	16.9	X	228.43058	163.76737	265.82075	6.25562	0.3650126	0.23482989	2.6019591	20	6 30.1	21.4
234226 2000 SW_{173}	14.9	X	146.78367	189.28442	215.59743	27.15196	0.1495752	0.17427660	3.1742661	20	3 29.4	20.2
234227 2000 SR_{215}	17.4	X	261.75865	272.38219	154.55317	2.22434	0.1804531	0.24289935	2.5440081	20	8 20.5	20.5
234228 2000 SZ_{227}	17.0	X	208.28431	285.75340	43.66050	6.48801	0.2675683	0.27695225	2.3309491	20	2 21.9	21.2
234229 2000 SG_{233}	16.5	X	240.44063	61.33882	345.91286	14.59117	0.2873730	0.23639989	2.5904260	20	6 18.0	21.1
234230 2000 ST_{233}	16.4	X	255.98775	15.33894	62.70885	7.27654	0.3388572	0.24157173	2.5533203	20	8 8.3	20.4
234231 2000 SX_{235}	16.9	X	222.20945	122.46731	174.69137	4.77836	0.2330384	0.27478484	2.3431901	20	1 21.3	21.0
234232 2000 SZ_{245}	14.9	X	145.81631	261.47579	72.51029	6.12543	0.1021409	0.16796885	3.2532459	20	1 5.9	19.8
234233 2000 SH_{257}	16.5	X	175.43542	247.63606	172.14494	5.42148	0.1823850	0.22960775	2.6412633	20	5 15.9	20.9
234234 2000 SV_{258}	16.0	X	62.17114	287.73048	49.35419	7.12927	0.1090408	0.25417028	2.4682333	20	—	—
234235 2000 SR_{268}	15.7	X	39.69214	297.29249	51.98253	5.05920	0.1284304	0.25229539	2.4804464	20	12 28.4	18.9
234236 2000 SG_{272}	16.8	X	235.06374	129.96266	296.68233	3.41578	0.2456630	0.23757452	2.5818805	20	7 11.8	20.7
234237 2000 SE_{275}	15.9	X	86.13259	157.47659	197.15636	7.23478	0.1459652	0.25882028	2.4385810	20	—	—
234238 2000 SL_{285}	16.1	X	244.27469	100.60396	230.04526	10.67211	0.2171569	0.23051543	2.6343251	20	3 20.6	20.7
234239 2000 SL_{305}	16.5	X	356.11123	67.33101	324.24406	4.45279	0.1314484	0.25158062	2.4851423	20	12 24.1	19.3
234240 2000 SH_{316}	16.0	X	31.03929	47.36827	300.56387	13.89363	0.1542958	0.25386608	2.4702046	20	12 20.8	19.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
234241 2000 SJ_{327}	15.7	X	33.94579	316.23684	58.70277	9.67827	0.1980723	0.25600886	2.4564017	20	—	—
234242 2000 SC_{340}	16.3	X	254.32404	261.97033	33.05862	5.62438	0.3281242	0.28274790	2.2989867	20	2 10.1	20.5
234243 2000 ST_{352}	16.1	X	136.61404	214.92193	85.09559	12.75494	0.1616276	0.26137867	2.4226423	20	—	—
234244 2000 SS_{361}	17.1	X	82.48864	291.36754	51.36879	5.53567	0.1835410	0.25996707	2.4314041	20	—	—
234245 2000 TK_{3}	17.2	X	187.22726	265.12555	37.77170	1.71519	0.1909428	0.27094737	2.3652629	20	—	—
234246 2000 TJ_{12}	16.6	X	233.60288	275.27294	21.35819	5.43723	0.2437694	0.27578198	2.3375386	20	1 31.8	20.7
234247 2000 TF_{29}	15.7	X	268.57687	139.13992	248.19128	12.52317	0.1893075	0.23732240	2.5837087	20	7 2.5	19.2
234248 2000 TR_{40}	17.1	X	206.29992	270.76818	10.71892	5.39294	0.0934121	0.26998732	2.3708667	20	—	—
234249 2000 TZ_{44}	16.4	X	259.64355	324.66845	75.39543	6.77979	0.2461236	0.23914685	2.5705513	20	7 2.5	20.0
234250 2000 TU_{46}	15.8	X	274.34929	209.02068	14.07664	25.15301	0.1576315	0.27015985	2.3698572	20	—	—
234251 2000 TV_{59}	15.9	X	279.40721	301.76610	95.20243	14.60391	0.1442823	0.24054310	2.5605943	20	8 13.5	19.2
234252 2000 UU_{3}	16.3	X	234.58714	182.98234	233.61638	4.57839	0.2471840	0.23539655	2.5977817	20	6 27.9	20.6
234253 2000 UY_{5}	15.2	X	193.06263	59.29737	50.57066	30.27997	0.3566067	0.23229902	2.6208237	20	8 2.9	20.7
234254 2000 UE_{11}	16.7	X	164.77118	102.17362	218.81484	2.45366	0.2146912	0.26733298	2.3865343	20	1 4.4	20.3
234255 2000 UF_{27}	16.1	X	282.62150	206.25556	191.99432	8.50740	0.1598203	0.23929482	2.5694915	20	8 11.5	19.2
234256 2000 UX_{40}	16.6	X	241.35645	1.73269	37.00904	6.04283	0.2226480	0.23439951	2.6051431	20	6 13.6	20.7
234257 2000 UE_{62}	16.1	X	294.31154	111.94777	314.43362	2.80098	0.1495542	0.24567446	2.5248139	20	10 16.1	18.8
234258 2000 UU_{62}	16.0	X	260.93235	196.21939	256.75505	7.13265	0.1742169	0.24351501	2.5397184	20	9 21.6	19.3
234259 2000 UM_{75}	16.1	X	30.42260	249.77180	118.41955	6.75254	0.1273071	0.25167991	2.4844886	20	—	—
234260 2000 VV_{3}	16.6	X	298.16692	142.03015	274.25451	1.13227	0.1535995	0.24506275	2.5290137	20	10 8.7	18.9
234261 2000 VF_{11}	14.9	X	229.78988	91.92157	224.25541	24.23688	0.2609176	0.17538531	3.1608744	20	2 18.3	20.9
234262 2000 VR_{11}	16.7	X	289.63050	345.04385	49.94120	4.31905	0.2313013	0.24077068	2.5589805	20	8 11.1	19.4
234263 2000 VW_{12}	16.4	X	93.88368	140.50783	216.29072	6.13584	0.1425574	0.25949565	2.4343480	20	—	—
234264 2000 VH_{40}	17.0	X	253.41267	183.37867	237.33064	3.69944	0.2572211	0.23857410	2.5746638	20	7 20.4	20.7
234265 2000 VU_{46}	14.6	X	214.42404	90.05235	254.93538	23.69594	0.3036111	0.17542790	3.1603628	20	3 6.9	20.8
234266 2000 VG_{54}	16.3	X	220.01791	151.62594	276.39045	5.58353	0.2632347	0.23323620	2.6137983	20	6 28.6	20.8
234267 2000 VC_{55}	16.2	X	260.61045	163.79868	261.31828	4.02139	0.2110805	0.23897717	2.5717679	20	8 9.8	19.6
234268 2000 WJ_{2}	16.0	X	213.11776	73.38186	357.66947	28.87286	0.3125614	0.23187331	2.6240305	20	6 26.7	21.3
234269 2000 WW_{4}	16.1	X	193.90979	143.22489	294.26004	12.66189	0.2794118	0.22978333	2.6399176	20	6 20.0	20.8
234270 2000 WV_{7}	16.5	X	267.94529	225.76789	193.40314	8.36821	0.1501958	0.23951624	2.5679077	20	8 20.5	19.8
234271 2000 WP_{16}	15.9	X	246.79055	168.99312	244.64359	11.98241	0.1599707	0.23508281	2.6000925	20	7 14.1	19.8
234272 2000 WT_{23}	17.0	X	261.21773	234.98421	175.89442	5.59583	0.2726113	0.23710290	2.5853031	20	7 13.9	20.8
234273 2000 WZ_{37}	16.5	X	181.96735	358.06856	98.33585	7.43227	0.2040660	0.23015205	2.6370973	20	7 5.0	20.9
234274 2000 WT_{68}	16.1	X	166.21299	46.72422	273.13376	10.78527	0.2871571	0.26860154	2.3790143	20	1 8.9	20.1
234275 2000 WK_{97}	15.1	X	326.95611	103.07750	266.22654	11.94981	0.1733232	0.24045931	2.5611891	20	9 17.0	17.9
234276 2000 WL_{102}	16.2	X	184.59492	290.72937	78.13836	12.60971	0.2158655	0.22470660	2.6795313	20	3 28.7	21.0
234277 2000 WC_{109}	16.3	X	179.95908	55.63616	46.40437	13.53889	0.2139268	0.23022701	2.6365249	20	7 11.6	21.0
234278 2000 WO_{114}	16.0	X	229.30390	166.85931	266.19900	10.29092	0.1597817	0.23399315	2.6081583	20	7 20.7	19.9
234279 2000 WD_{122}	15.8	X	47.83530	297.35946	58.92680	5.13350	0.2238405	0.25194385	2.4827532	20	—	—
234280 2000 WM_{154}	15.8	X	171.58955	200.35670	257.15151	16.59299	0.1730763	0.23020658	2.6366808	20	6 26.3	20.2
234281 2000 WC_{160}	16.8	X	264.53505	245.29331	168.26465	3.43632	0.1514438	0.23803078	2.5785801	20	8 9.3	20.0
234282 2000 WY_{162}	17.1	X	250.65812	254.10674	145.56144	5.18074	0.2308207	0.23474834	2.6025617	20	6 23.9	21.0
234283 2000 WM_{173}	15.7	X	209.76785	273.76382	180.62935	12.98496	0.2730555	0.22993592	2.6387495	20	7 20.4	20.5
234284 2000 WR_{177}	16.6	X	314.03143	284.64178	111.15277	8.01592	0.2343519	0.24542933	2.5264948	20	10 9.8	18.6
234285 2000 XU_{6}	15.3	X	238.21658	175.69864	279.29910	14.48756	0.0475113	0.23837638	2.5760873	20	9 7.6	19.2
234286 2000 XE_{8}	15.4	X	282.23949	111.01967	304.73461	11.41535	0.1605313	0.23892308	2.5721561	20	9 2.6	18.5
234287 2000 XM_{11}	16.0	X	188.20684	25.98962	48.52674	16.72432	0.2406132	0.22566421	2.6719455	20	6 9.9	20.9
234288 2000 XY_{12}	16.0	X	224.56163	146.26786	289.93742	11.13388	0.1538103	0.23320047	2.6140653	20	7 21.7	19.8
234289 2000 XT_{41}	15.4	X	256.52755	19.90043	14.93573	14.24239	0.3011421	0.23469599	2.6029487	20	6 13.8	19.8
234290 2000 XS_{50}	15.4	X	156.52387	73.99589	325.21879	10.15149	0.1553253	0.22161053	2.7044303	20	3 27.8	19.8
234291 2000 YA_{7}	15.4	X	350.09732	30.97219	327.32093	4.91330	0.2516398	0.24211986	2.5494653	20	11 6.3	17.6
234292 2000 YL_{8}	16.3	X	261.30660	320.20575	83.72120	4.32956	0.1531126	0.23579402	2.5948616	20	7 23.6	19.7
234293 2000 YA_{19}	15.8	X	149.24595	260.04572	273.82527	10.91137	0.1386285	0.23452739	2.6041960	20	9 5.6	20.2
234294 Pappsándor	16.3	X	47.64484	172.79923	294.17746	3.93907	0.1225016	0.21070833	2.7969299	20	2 5.9	19.5
234295 2000 YK_{45}	15.1	X	106.25573	281.35346	282.11984	26.09290	0.0212252	0.23101824	2.6305014	20	8 11.6	19.1
234296 2000 YR_{60}	16.3	X	163.93947	164.57958	289.40684	4.85817	0.2586705	0.22472007	2.6794242	20	6 17.7	21.1
234297 2000 YX_{64}	17.0	X	257.34180	173.60017	241.02233	2.28290	0.2026910	0.23423505	2.6063624	20	7 24.3	20.6
234298 2000 YZ_{73}	15.9	X	217.06576	28.99730	111.04439	6.33760	0.2568415	0.23804451	2.5784810	20	9 28.1	20.1
234299 2000 YL_{95}	16.0	X	356.76559	23.86621	358.47593	2.54298	0.1648349	0.24405272	2.5359866	20	12 14.4	18.7
234300 2000 YO_{125}	15.8	X	254.68204	72.26147	19.76952	10.08056	0.1640862	0.23684511	2.5871788	20	9 19.2	19.1
234301 2000 YJ_{130}	16.5	X	224.62423	344.76985	99.03354	4.67827	0.1649533	0.23358079	2.6112271	20	8 1.0	20.3
234302 2001 AA	16.5	X	178.14740	287.93352	154.81176	15.03341	0.3925249	0.22798503	2.6537815	20	6 15.7	22.0
234303 2001 AA_{1}	16.6	X	213.40410	81.04208	15.08504	2.32209	0.0359819	0.22957479	2.6415160	20	8 17.9	20.3
234304 2001 AO_{10}	15.6	X	349.96781	183.39243	200.73349	4.44944	0.2514482	0.24380172	2.5377268	20	12 18.2	17.9
234305 2001 AF_{22}	16.8	X	146.57649	75.15556	65.32349	5.64027	0.2658482	0.22660822	2.6645197	20	8 2.4	21.5
234306 2001 AZ_{27}	16.9	X	146.99783	74.04411	63.11878	11.87842	0.2618302	0.22577284	2.6710883	20	7 30.7	21.8
234307 2001 AO_{37}	16.6	X	215.00062	22.74738	67.98420	8.80850	0.3459721	0.23111432	2.6297723	20	7 18.9	21.5
234308 2001 AD_{39}	16.1	X	277.38873	74.54880	315.46537	7.14507	0.0475509	0.22991269	2.6389273	20	8 11.2	19.3
234309 2001 AZ_{40}	15.7	X	211.51478	250.42153	264.95627	10.22307	0.2204757	0.23696656	2.5862947	20	10 7.6	20.1
234310 2001 AG_{46}	15.6	X	116.78588	43.15138	53.62282	26.98636	0.2073560	0.21881829	2.7273882	20	5 10.3	19.9
234311 2001 AL_{53}	15.5	X	156.08169	188.25603	303.11294	11.12052	0.1395556	0.22467916	2.6797494	20	7 25.4	19.7
234312 2001 BV_{1}	17.4	X	332.65828	246.99817	144.13218	33.14709	0.0541929	0.44090314	1.7096502	20	—	—
234313 2001 BF_{6}	16.1	X	328.39348	220.68104	195.56189	6.02743	0.1445691	0.24405161	2.5359942	20	12 9.1	18.6
234314 2001 BY_{30}	16.1	X	165.65177	170.18580	317.31449	6.19047	0.1975311	0.22645918	2.6656887	20	7 30.4	20.4
234315 2001 BA_{46}	16.1	X	133.76188	341.47782	211.57221	8.32757	0.1815553	0.22990059	2.6390199	20	9 19.6	20.4
234316 2001 BX_{51}	15.5	X	208.76360	287.08958	173.75745	14.31348	0.1711710	0.22917978	2.6445504	20	8 3.1	19.9
234317 2001 BE_{76}	15.7	X	96.42170	308.37728	269.35160	11.32069	0.1431682	0.22754585	2.6571951	20	9 7.4	20.0
234318 2001 CL_{8}	16.6	X	119.05209	73.45687	106.16557	5.31899	0.2588239	0.22351971	2.6890085	20	8 28.7	21.3
234319 2001 CR_{11}	15.7	X	257.92937	84.30260	336.24394	9.81733	0.1716502	0.23244802	2.6197036	20	8 8.9	19.4
234320 2001 CY_{18}	15.7	X	119.72617	272.75582	314.87635	11.94022	0.1465371	0.23174220	2.6250201	20	10 13.9	20.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
234321 2001 CA_{23}	16.0	X	215.35064	130.03005	309.48365	4.69361	0.1314795	0.22857520	2.6492115	20	7 19.0	20.1
234322 2001 CX_{31}	14.9	X	202.44819	79.03351	28.90143	25.92307	0.3308755	0.23070822	2.6328574	20	8 12.1	20.2
234323 2001 DR_{20}	15.6	X	40.97078	220.99301	7.65184	13.57841	0.1471581	0.21788180	2.7351978	20	7 21.5	19.2
234324 2001 DR_{36}	16.1	X	262.48277	348.33894	141.07673	9.27997	0.1029720	0.24017078	2.5632400	20	11 29.2	19.3
234325 2001 DR_{55}	16.3	X	89.47323	254.73744	340.34735	4.55001	0.2167085	0.22602248	2.6691212	20	10 4.1	20.5
234326 2001 DP_{64}	15.6	X	147.48479	339.08820	158.04345	13.86384	0.1194105	0.22367871	2.6877340	20	7 22.2	19.9
234327 2001 DG_{77}	16.0	X	353.24143	141.22210	149.92326	7.56108	0.0773863	0.22240632	2.6979753	20	7 17.5	19.3
234328 2001 DP_{93}	16.5	X	221.13184	264.32572	192.09026	4.97174	0.1670134	0.23081100	2.6320757	20	8 11.1	20.5
234329 2001 DO_{98}	15.8	X	123.78972	220.92675	318.23048	23.92381	0.1669375	0.22477891	2.6789566	20	8 21.2	20.1
234330 2001 EF	15.3	X	79.05081	181.28138	89.84651	29.07408	0.3914751	0.22205067	2.7008553	20	11 28.3	20.4
234331 2001 EN_{10}	16.6	X	182.37195	52.90017	120.80894	2.64834	0.1890626	0.23074305	2.6325924	20	10 11.2	20.8
234332 2001 EC_{15}	15.8	X	72.95789	170.03776	28.62951	17.65277	0.1526425	0.21787095	2.7352887	20	7 30.0	20.0
234333 2001 EZ_{17}	15.5	X	51.89109	144.56561	99.86502	8.70256	0.1815173	0.21789547	2.7350834	20	9 2.9	19.1
234334 2001 EJ_{25}	16.4	X	133.01770	250.59589	248.38954	10.63161	0.2685739	0.22240585	2.6979791	20	7 17.2	21.2
234335 2001 FU	15.7	X	26.30052	116.14214	139.15969	16.24068	0.2824195	0.21519307	2.7579339	20	8 21.6	18.4
234336 2001 FH_{1}	16.0	X	51.82774	57.18194	180.93915	12.49741	0.1395522	0.21814694	2.7329811	20	8 12.1	19.6
234337 2001 FX_{3}	15.9	X	98.22107	81.02024	81.16196	13.54049	0.1567648	0.21694725	2.7430472	20	7 6.3	20.0
234338 2001 FW_{25}	15.3	X	141.94737	0.65575	193.72912	12.68881	0.1955624	0.22565307	2.6720334	20	9 29.6	19.7
234339 2001 FE_{36}	15.7	X	92.90264	175.17033	350.81380	8.51677	0.1234073	0.21719996	2.7409191	20	7 1.7	19.7
234340 2001 FS_{44}	16.1	X	144.70080	106.85986	13.43499	8.93289	0.2639315	0.21951508	2.7216136	20	7 6.6	21.0
234341 2001 FZ_{57}	18.9	X	177.28175	339.97370	22.09996	20.66696	0.6041961	1.07429814	0.9441757	20	—	—
234342 2001 FF_{68}	15.1	X	338.04607	263.52595	14.28889	28.79415	0.3427586	0.21030365	2.8005168	20	4 20.9	17.9
234343 2001 FM_{84}	16.5	X	159.89356	256.75041	160.46816	4.73358	0.0611501	0.21204511	2.7851625	20	4 23.5	20.5
234344 2001 FM_{85}	16.0	X	284.38017	334.93014	24.51234	5.87436	0.0862395	0.21817354	2.7327590	20	7 3.9	19.6
234345 2001 FW_{89}	16.5	X	44.04392	40.09346	186.36252	12.64269	0.1065357	0.21566340	2.7539227	20	7 10.4	20.2
234346 2001 FK_{120}	16.1	X	76.01071	210.32214	4.92202	13.27709	0.1458995	0.21942222	2.7223815	20	8 22.7	20.0
234347 2001 FQ_{126}	16.2	X	81.67010	34.43792	151.76962	9.13272	0.1595884	0.21660509	2.7459352	20	7 17.9	20.2
234348 2001 FV_{158}	15.1	X	109.93522	247.78574	21.04926	10.98213	0.1541980	0.17822018	3.1272658	20	11 19.2	20.2
234349 2001 FT_{167}	15.6	X	131.67009	100.94534	24.80673	13.93548	0.1587106	0.21718074	2.7410808	20	6 24.6	20.2
234350 2001 GV_{4}	15.8	X	105.82491	91.19140	84.94678	10.15428	0.1559251	0.21932641	2.7231742	20	8 3.9	20.0
234351 2001 HX_{28}	16.1	X	323.84663	178.72622	52.82382	25.49114	0.1614078	0.30464988	2.1874361	20	3 2.8	19.3
234352 2001 HZ_{41}	15.7	X	26.53751	97.76800	176.98769	9.17633	0.3000919	0.21669520	2.7451739	20	9 21.8	18.6
234353 2001 HR_{43}	16.5	X	14.98625	211.24564	32.07757	2.08803	0.2022977	0.21136676	2.7911184	20	6 25.7	19.1
234354 2001 HG_{47}	16.1	X	69.78162	339.04247	218.26166	7.83854	0.2287921	0.21391669	2.7688936	20	7 26.1	20.1
234355 2001 HX_{57}	15.5	X	80.98116	97.91014	81.11157	13.20222	0.1578331	0.21471385	2.7620361	20	7 8.1	19.4
234356 2001 HD_{65}	16.5	X	333.94197	61.29226	189.23667	1.52488	0.1639486	0.20569975	2.8421492	20	4 10.7	19.8
234357 2001 JA_{5}	15.0	X	32.34806	254.06376	82.27469	17.96902	0.1533449	0.17182136	3.2044336	20	11 20.4	19.3
234358 2001 JC_{6}	15.8	X	55.71721	40.46278	181.58366	7.20715	0.2126605	0.21503549	2.7592812	20	8 8.1	19.5
234359 2001 KS_{64}	15.3	X	104.46656	33.96651	136.86225	17.11281	0.1200146	0.21497777	2.7597751	20	7 19.8	19.5
234360 2001 MV_{25}	16.9	X	290.61823	209.57368	116.38632	8.19538	0.2709168	0.30594371	2.1812647	20	4 28.7	19.7
234361 2001 NX_{2}	15.1	X	73.94821	318.93414	97.78504	17.38128	0.0667238	0.18354578	3.0664775	20	1 12.1	19.1
234362 2001 NK_{13}	16.6	X	55.49687	326.99590	58.72449	2.99885	0.2138000	0.27832977	2.3232518	20	—	—
234363 2001 NB_{14}	15.6	X	298.84278	286.33773	336.34110	7.69705	0.1950531	0.19591214	2.9360390	20	3 1.4	19.8
234364 2001 OU_{28}	15.6	X	207.66944	298.19773	24.05586	11.30114	0.1166778	0.18902133	3.0069682	20	2 23.1	20.5
234365 2001 OL_{29}	15.6	X	207.29514	299.70069	352.34560	10.55260	0.1896035	0.18516418	3.0485832	20	1 16.7	20.9
234366 2001 OR_{61}	15.0	X	180.22306	173.01867	118.16325	12.28543	0.2394413	0.18040440	3.1019726	20	—	—
234367 2001 OP_{68}	15.7	X	337.60042	321.28613	322.77818	14.40142	0.3412051	0.20473877	2.8510357	20	5 3.7	18.5
234368 2001 OL_{77}	16.2	X	250.20097	67.28189	123.72767	22.38044	0.1300696	0.28032370	2.3122219	20	—	—
234369 2001 OX_{85}	17.1	X	327.60890	106.15042	153.67190	7.11278	0.1175727	0.30228173	2.1988459	20	4 14.1	19.2
234370 2001 OF_{87}	14.9	X	105.01713	359.51377	336.18436	11.09970	0.1426091	0.17163592	3.2067413	20	—	—
234371 2001 OM_{89}	16.6	X	66.64580	104.74923	135.87045	4.99204	0.1377350	0.31678249	2.1312216	20	9 22.3	19.1
234372 2001 OA_{113}	15.4	X	180.36461	106.97638	222.73096	4.12683	0.2048238	0.18486924	3.0518249	20	2 3.7	20.6
234373 2001 PP_{26}	17.2	X	312.37431	303.25642	352.39015	4.90648	0.1965215	0.30417096	2.1897316	20	4 23.9	19.2
234374 2001 PW_{39}	16.1	X	41.08035	142.11920	262.63949	6.52828	0.1986317	0.27481912	2.3429953	20	—	—
234375 2001 PQ_{58}	16.6	X	332.91328	0.25687	7.40857	4.56984	0.2437607	0.26118641	2.4238310	20	10 15.0	18.0
234376 2001 QV_{8}	15.7	X	124.79263	183.61492	141.43243	11.49180	0.1965620	0.17503179	3.1651291	20	—	—
234377 2001 QL_{34}	16.8	X	179.24593	13.77324	316.75044	6.94449	0.2249690	0.29028942	2.2589949	20	1 27.3	20.4
234378 2001 QA_{48}	15.0	X	120.11664	237.01290	146.10628	16.53338	0.0688153	0.18253268	3.0778135	20	1 28.5	19.5
234379 2001 QD_{53}	15.8	X	150.72317	202.74190	128.00220	1.95372	0.1659856	0.18038566	3.1021875	20	1 10.7	20.8
234380 2001 QG_{58}	17.1	X	103.99892	301.45872	79.36885	2.71792	0.2465876	0.28159437	2.3052608	20	1 16.0	19.5
234381 2001 QB_{60}	16.9	X	49.59982	254.59368	123.33125	5.48902	0.2402812	0.27443161	2.3452004	20	—	—
234382 2001 QC_{67}	16.9	X	309.85454	315.86500	2.55575	4.99080	0.2557113	0.30575133	2.1821796	20	5 14.6	18.8
234383 2001 QB_{68}	16.0	X	297.77386	23.69840	88.13610	7.15737	0.2592217	0.26103200	2.4247867	20	—	—
234384 2001 QN_{97}	14.7	X	88.67188	183.99291	193.52086	27.89214	0.1664378	0.17248678	3.1961869	20	—	—
234385 2001 QX_{107}	17.2	X	137.80301	220.04770	137.12778	5.52096	0.1570925	0.28435354	2.2903242	20	1 13.4	20.1
234386 2001 QR_{113}	15.2	X	114.67098	178.81231	163.92057	15.81489	0.0191029	0.17381216	3.1799181	20	—	—
234387 2001 QP_{135}	14.9	X	227.65288	277.36696	353.32518	21.24260	0.3355702	0.18092886	3.0959753	20	1 6.9	21.0
234388 2001 QV_{161}	17.2	X	296.51358	276.22128	55.34207	2.61164	0.1403851	0.30562397	2.1827857	20	6 4.5	19.2
234389 2001 QP_{163}	16.4	X	84.08812	88.01602	290.94395	4.04765	0.2017905	0.27600152	2.3362989	20	—	—
234390 2001 QJ_{203}	15.3	X	147.25687	13.30594	329.95155	7.14835	0.0617417	0.18095673	3.0956574	20	1 13.1	19.8
234391 2001 QH_{204}	16.7	X	311.03850	298.08334	286.95804	7.68680	0.0818576	0.29338542	2.2430745	20	1 30.8	19.5
234392 2001 QH_{240}	15.1	X	343.39412	183.00823	348.86247	6.95074	0.0574236	0.18228721	3.0805759	20	1 31.0	19.3
234393 2001 QA_{246}	16.8	X	156.66044	16.66071	345.80954	5.50076	0.1680816	0.28596475	2.2817131	20	2 12.3	20.0
234394 2001 QU_{252}	15.5	X	198.13413	185.34980	141.02885	13.06564	0.1329829	0.18592345	3.0402779	20	2 14.9	20.3
234395 2001 QM_{253}	17.0	X	353.64732	271.90375	133.47964	9.39482	0.2669791	0.26849346	2.3796527	20	—	—
234396 2001 QC_{260}	16.6	X	40.18743	135.50039	293.57585	5.08035	0.2230392	0.27636986	2.3342225	20	—	—
234397 2001 QN_{265}	14.6	X	75.94094	210.30284	178.19316	28.32293	0.1984296	0.17288604	3.1912643	20	—	—
234398 2001 QG_{283}	16.6	X	18.34322	82.67667	233.61219	13.68675	0.2843558	0.26363189	2.4088186	20	11 13.2	19.2
234399 2001 QY_{286}	17.0	X	302.55628	321.97337	303.70701	5.01441	0.1913626	0.29902208	2.2147967	20	2 26.4	19.7
234400 2001 QR_{292}	14.7	X	85.99433	128.81628	210.09061	19.96555	0.1372196	0.16962060	3.2320915	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
234401 2001 QB_{330}	16.5	X	34.03271	254.63954	98.50182	6.08152	0.1309583	0.26896991	2.3768417	20	12 31.0	19.5
234402 2001 QR_{334}	15.8	X	23.66533	275.71180	192.74889	9.31110	0.0571216	0.17704157	3.1411298	20	1 6.2	20.1
234403 2001 RF_{12}	17.2	X	307.88709	278.05476	18.70549	7.23667	0.2002793	0.30338061	2.1935330	20	4 18.4	19.5
234404 2001 RF_{14}	16.0	X	157.67867	191.39650	140.69654	1.86249	0.2088421	0.18085946	3.0967672	20	1 21.3	21.2
234405 2001 RX_{16}	15.9	X	341.14703	57.28789	0.79206	22.91757	0.3082043	0.26530868	2.3986585	20	—	—
234406 2001 RO_{17}	16.8	X	31.48347	55.77276	6.67157	6.64787	0.2034666	0.27436725	2.3455671	20	—	—
234407 2001 RK_{19}	16.8	X	44.78987	59.00524	338.79834	11.80300	0.1752401	0.27591944	2.3367622	20	—	—
234408 2001 RY_{22}	15.4	X	253.78500	110.46814	169.19013	16.26065	0.1111475	0.18737493	3.0245567	20	2 11.6	20.1
234409 2001 RO_{23}	17.3	X	326.08221	251.66960	22.43430	1.22038	0.1608039	0.30324386	2.1941924	20	4 23.7	19.0
234410 2001 RJ_{25}	15.2	X	100.09509	219.50741	170.79892	16.28090	0.0221191	0.17915974	3.1163228	20	1 7.2	19.9
234411 2001 RO_{28}	17.1	X	68.01559	49.10650	338.35313	6.98685	0.1321247	0.27808994	2.3245873	20	—	—
234412 2001 RY_{48}	16.1	X	141.86783	229.95452	113.79749	22.84890	0.1790575	0.28024554	2.3126518	20	1 4.9	19.2
234413 2001 RM_{58}	17.0	X	73.18786	278.38604	133.26997	4.35188	0.1289597	0.28074520	2.3099070	20	—	—
234414 2001 RY_{58}	17.4	X	97.45844	268.99340	129.02644	5.17316	0.1535383	0.28245147	2.3005949	20	1 13.7	19.6
234415 2001 RK_{59}	15.0	X	149.09858	319.98411	9.84122	17.64737	0.1121459	0.17716857	3.1396285	20	1 6.5	20.1
234416 2001 RP_{62}	15.5	X	78.56773	308.47536	56.02690	5.99664	0.1928647	0.17086791	3.2163431	20	—	—
234417 2001 RJ_{70}	16.4	X	159.81869	35.45203	330.91078	6.73501	0.1541457	0.28664912	2.2780800	20	2 18.2	19.7
234418 2001 RQ_{83}	17.1	X	299.37297	107.57455	181.15169	6.12461	0.1962673	0.30041067	2.2079665	20	3 26.6	19.6
234419 2001 RQ_{85}	17.7	X	263.54973	325.42065	351.64587	3.16408	0.1866069	0.29807039	2.2195086	20	3 23.3	20.6
234420 2001 RE_{93}	17.1	X	180.30051	28.65616	4.55337	23.71638	0.1007697	0.39899785	1.8273526	20	3 31.9	19.2
234421 2001 RV_{94}	17.1	X	125.08206	44.48829	329.14855	5.09082	0.1850913	0.28274567	2.2989988	20	1 25.1	19.9
234422 2001 RT_{101}	17.2	X	144.52281	33.72324	17.89773	3.85702	0.1644679	0.29173547	2.2515239	20	4 1.8	20.2
234423 2001 RV_{103}	15.9	X	208.40668	140.89528	170.33323	4.84219	0.1650787	0.18548795	3.0450347	20	2 5.2	20.9
234424 2001 RT_{105}	15.6	X	130.61145	302.83614	17.68165	5.05359	0.1879664	0.17457742	3.1706185	20	—	—
234425 2001 RO_{111}	15.1	X	147.94168	146.08871	165.69223	10.47406	0.0559766	0.17493031	3.1663530	20	—	—
234426 2001 RN_{117}	15.7	X	62.74692	194.17984	172.00711	4.86570	0.1248246	0.16938058	3.2351441	20	—	—
234427 2001 RV_{132}	16.4	X	220.18274	345.38942	16.53178	8.72115	0.1764277	0.29662608	2.2267074	20	4 9.1	19.9
234428 2001 RN_{146}	15.0	X	38.43892	236.83114	205.10485	15.70642	0.1126274	0.17539173	3.1607972	20	—	—
234429 2001 RD_{147}	15.0	X	183.95301	359.58068	294.90377	16.71669	0.1541920	0.17867607	3.1219441	20	—	—
234430 2001 SM_{6}	17.2	X	341.34774	239.65032	349.49597	8.34253	0.1586147	0.29798087	2.2199531	20	3 12.9	18.8
234431 2001 SO_{9}	15.1	X	189.05475	303.48340	32.15525	12.74406	0.1566700	0.17936862	3.1139030	20	2 23.9	20.4
234432 2001 SP_{25}	15.5	X	56.99507	38.98920	7.68849	15.87572	0.0720043	0.17211140	3.2008326	20	—	—
234433 2001 SA_{26}	17.2	X	129.41120	219.45041	177.13690	3.15110	0.1007220	0.28652844	2.2787196	20	2 15.9	20.0
234434 2001 SQ_{35}	15.0	X	172.65183	277.27689	29.85694	10.46682	0.0399339	0.17451762	3.1713428	20	—	—
234435 2001 SS_{41}	17.5	X	40.79540	23.36914	27.83657	5.75278	0.2146015	0.27449819	2.3448212	20	—	—
234436 2001 SV_{47}	17.0	X	125.62354	205.32345	145.61745	6.54933	0.1488557	0.28029094	2.3124020	20	—	—
234437 2001 SG_{48}	15.0	X	257.12978	280.67272	22.35927	10.49972	0.1409491	0.18789189	3.0190063	20	3 15.7	19.6
234438 2001 SR_{65}	16.5	X	59.86494	198.57362	177.54466	7.42424	0.1632473	0.27185185	2.3600137	20	—	—
234439 2001 ST_{71}	15.5	X	183.63944	153.17861	194.70673	10.07575	0.1753052	0.18155476	3.0888558	20	2 25.6	20.7
234440 2001 SE_{85}	15.5	X	145.38276	337.86765	334.67624	8.54159	0.0569678	0.17471162	3.1689948	20	—	—
234441 2001 SG_{85}	15.9	X	16.28887	37.80967	335.56894	9.00194	0.1687440	0.16363882	3.3103848	20	12 8.6	20.2
234442 2001 SN_{87}	17.7	X	337.59456	114.61385	313.21195	3.48044	0.2410196	0.26819382	2.3814248	20	—	—
234443 2001 SK_{94}	17.1	X	161.87099	78.42526	288.00037	3.64370	0.1484205	0.28817068	2.2700540	20	2 18.4	20.4
234444 2001 SA_{99}	16.4	X	326.56370	90.31948	196.00495	2.75799	0.2669890	0.20018178	2.8941409	20	5 2.8	19.2
234445 2001 SS_{133}	15.5	X	235.26607	97.85046	192.81099	16.00774	0.1355904	0.18416710	3.0595767	20	2 3.4	20.6
234446 2001 SF_{137}	17.2	X	55.35840	159.19265	217.47474	1.77272	0.1368562	0.27307303	2.3529725	20	—	—
234447 2001 SA_{144}	17.1	X	36.58801	136.28406	312.78460	2.52898	0.1271140	0.28011856	2.3133506	20	—	—
234448 2001 SR_{146}	17.0	X	91.17496	258.30160	111.94848	3.27991	0.1455176	0.27783584	2.3260044	20	—	—
234449 2001 SV_{147}	16.4	X	190.23574	33.51257	311.57915	5.01005	0.1665942	0.28972390	2.2619335	20	2 20.0	20.0
234450 2001 SL_{148}	17.5	X	139.22182	55.65223	334.38552	6.79861	0.0966868	0.28728049	2.2747410	20	2 19.8	20.5
234451 2001 SN_{150}	15.0	X	267.97747	239.94963	7.72227	26.98181	0.2146643	0.18213312	3.0823132	20	1 21.1	20.4
234452 2001 SJ_{152}	16.8	X	116.08780	61.04761	354.80051	6.32093	0.1056445	0.28610242	2.2809811	20	2 27.5	19.5
234453 2001 SS_{156}	15.1	X	78.31667	1.62594	344.82249	18.26055	0.0924244	0.16778561	3.2556140	20	—	—
234454 2001 SE_{160}	17.0	X	35.15056	41.23569	350.50116	2.68190	0.2107615	0.27102257	2.3648254	20	—	—
234455 2001 SL_{164}	14.8	X	186.61554	138.22024	209.18153	17.47915	0.1577110	0.18147321	3.0897810	20	2 24.9	20.1
234456 2001 SR_{180}	17.2	X	270.57449	165.70232	154.48943	9.28867	0.1662091	0.30115346	2.2043344	20	4 10.1	20.2
234457 2001 SG_{181}	15.5	X	99.85522	35.41341	338.89722	9.45702	0.1385039	0.17734777	3.1375131	20	1 6.6	19.9
234458 2001 SJ_{181}	17.5	X	36.48255	43.00850	355.19594	1.36581	0.2938381	0.27340426	2.3510716	20	—	—
234459 2001 SN_{181}	15.0	X	235.13984	266.41536	342.06588	11.79386	0.1012186	0.18117566	3.0931631	20	—	—
234460 2001 ST_{191}	17.1	X	5.77361	73.37510	167.14881	3.07049	0.1249488	0.30263294	2.1971443	20	5 28.8	18.8
234461 2001 SR_{192}	17.2	X	105.30201	264.40358	174.30386	6.63789	0.0567745	0.29047059	2.2580554	20	3 5.3	19.7
234462 2001 SO_{207}	15.7	X	86.20703	188.53669	177.19213	5.27860	0.1370720	0.17186739	3.2038614	20	—	—
234463 2001 SA_{213}	17.4	X	196.90442	329.48584	15.68400	7.35713	0.1253679	0.29071082	2.2568113	20	2 28.9	20.7
234464 2001 SV_{220}	17.4	X	20.40372	265.22087	140.40910	2.91344	0.1780208	0.27098901	2.3650206	20	—	—
234465 2001 SL_{223}	17.3	X	346.91268	74.17805	13.52586	2.31307	0.1750100	0.27082634	2.3659675	20	—	—
234466 2001 SG_{229}	17.1	X	66.35627	252.00644	174.75749	6.38061	0.0869270	0.28034124	2.3121254	20	—	—
234467 2001 SV_{236}	16.9	X	97.63510	207.66075	146.92588	7.32780	0.1390643	0.27611453	2.3356613	20	—	—
234468 2001 SG_{240}	18.0	X	229.99632	295.11117	28.36399	4.54457	0.1885414	0.29286776	2.2457169	20	3 1.9	21.6
234469 2001 SB_{245}	16.0	X	170.50632	293.32560	35.13128	5.86128	0.1347774	0.17816615	3.1278981	20	1 25.9	21.0
234470 2001 SF_{255}	15.4	X	268.51530	82.27425	195.67456	16.59469	0.2009180	0.18569799	3.0427382	20	2 13.6	20.4
234471 2001 SH_{259}	15.4	X	244.78085	89.63033	154.48303	10.66714	0.0815147	0.18016270	3.1047464	20	—	—
234472 2001 SY_{267}	16.6	X	332.39316	4.15496	67.11258	5.99746	0.1847901	0.26399241	2.4066250	20	—	—
234473 2001 SR_{273}	15.3	X	291.85035	159.17794	14.72040	10.77729	0.0339986	0.17133083	3.2105470	20	—	—
234474 2001 ST_{283}	15.5	X	121.62680	219.48964	153.81076	11.08056	0.1205394	0.18171103	3.0870845	20	1 25.1	20.0
234475 2001 SJ_{298}	15.4	X	208.60794	295.54635	343.29752	6.78549	0.0678161	0.17868590	3.1218296	20	1 2.4	20.2
234476 2001 SJ_{303}	15.2	X	220.55922	48.36957	189.01238	13.18917	0.0990353	0.17289551	3.1911477	20	—	—
234477 2001 SD_{311}	15.1	X	53.26066	132.97565	242.34659	12.34583	0.0917629	0.16996822	3.2276832	20	—	—
234478 2001 SK_{315}	16.3	X	35.31725	90.16644	302.86160	8.96947	0.2048689	0.26954756	2.3734447	20	—	—
234479 2001 SZ_{317}	17.3	X	312.64048	169.09058	63.28011	3.50369	0.0534543	0.28994245	2.2607967	20	2 20.7	20.0
234480 2001 SF_{335}	15.3	X	165.00205	138.20113	176.55981	10.10555	0.0973465	0.17859463	3.1228931	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
234481 2001 TM_{6}	16.7	X	329.93902	337.26268	114.52870	6.15851	0.2032927	0.26766625	2.3845529	20	—	—
234482 2001 TS_{11}	17.4	X	154.67756	349.47021	331.50538	1.96129	0.1834999	0.28100855	2.3084636	20	—	—
234483 2001 TV_{14}	15.1	X	61.62464	233.59689	136.34156	7.00879	0.0816389	0.16717735	3.2635060	20	—	—
234484 2001 TS_{29}	17.4	X	187.88859	2.61912	346.12671	4.08452	0.1571857	0.28866466	2.2674635	20	2 23.6	20.7
234485 2001 TB_{30}	17.5	X	241.62779	104.67776	222.46135	6.08389	0.1401432	0.29330976	2.2434602	20	3 16.3	20.8
234486 2001 TK_{52}	17.2	X	158.85253	328.29778	42.14607	6.24690	0.0980750	0.28687527	2.2768826	20	2 20.2	20.4
234487 2001 TK_{56}	16.8	X	13.59167	259.22101	155.58393	5.95599	0.2005235	0.26907619	2.3762157	20	—	—
234488 2001 TK_{59}	17.4	X	348.70397	305.06137	113.76081	0.22313	0.2114611	0.26645760	2.3917584	20	—	—
234489 2001 TM_{62}	15.1	X	141.20718	315.18737	20.76316	10.46206	0.2180762	0.17495405	3.1660667	20	1 15.6	20.3
234490 2001 TO_{66}	15.6	X	217.20093	145.85931	192.48457	3.46296	0.2960342	0.18703452	3.0282254	20	3 10.8	21.2
234491 2001 TW_{66}	17.2	X	139.43481	179.12812	177.69451	3.45895	0.1408308	0.28110396	2.3079412	20	1 12.9	20.1
234492 2001 TQ_{72}	17.1	X	15.58122	32.71307	52.08458	5.57541	0.2209335	0.27224858	2.3577204	20	—	—
234493 2001 TC_{75}	17.2	X	17.68664	216.43654	165.70513	1.46111	0.2067777	0.26597082	2.3946758	20	—	—
234494 2001 TA_{83}	17.0	X	96.58379	63.80320	336.46249	6.34310	0.1034281	0.28156210	2.3054370	20	1 9.1	19.6
234495 2001 TH_{87}	17.3	X	183.08677	357.07836	316.75918	4.20780	0.1481985	0.28406536	2.2918729	20	1 6.1	20.6
234496 2001 TX_{93}	16.6	X	50.19897	65.08651	2.52341	6.78092	0.1811051	0.27660920	2.3328759	20	—	—
234497 2001 TF_{94}	15.1	X	65.16211	41.26183	8.73514	10.01426	0.1123753	0.17164431	3.2066369	20	—	—
234498 2001 TA_{95}	15.4	X	192.06855	329.22961	343.10561	5.04084	0.2818174	0.18098029	3.0953887	20	1 27.9	21.0
234499 2001 TS_{95}	17.2	X	151.84314	20.32429	328.27163	3.45474	0.2089925	0.28325310	2.2962523	20	1 24.6	20.4
234500 2001 TS_{98}	17.7	X	16.28070	193.24244	229.69432	1.62379	0.1971972	0.27089744	2.3655536	20	—	—
234501 2001 TZ_{120}	16.4	X	0.97046	118.10423	324.63153	9.50234	0.1922560	0.27027677	2.3691737	20	—	—
234502 2001 TJ_{132}	15.5	X	168.45520	158.83705	159.51115	12.02755	0.1354092	0.17622821	3.1507874	20	1 10.3	20.7
234503 2001 TL_{147}	17.4	X	33.49235	310.65023	107.19621	3.20339	0.1841788	0.27313325	2.3526266	20	—	—
234504 2001 TQ_{150}	16.2	X	339.81804	44.83879	57.53385	7.69555	0.0660147	0.27161836	2.3613659	20	—	—
234505 2001 TM_{151}	16.5	X	350.59672	3.18913	72.78253	6.88478	0.1639515	0.26860334	2.3790037	20	—	—
234506 2001 TW_{152}	17.5	X	52.97139	310.28650	106.06114	3.46901	0.1848837	0.27520937	2.3407799	20	—	—
234507 2001 TN_{154}	16.7	X	167.36106	194.26809	117.49735	6.49011	0.1788892	0.28217051	2.3021218	20	—	—
234508 2001 TJ_{157}	16.9	X	302.55112	83.63883	77.89478	3.22603	0.1508433	0.27161948	2.3613595	20	—	—
234509 2001 TD_{175}	15.6	X	174.82560	152.51393	187.99313	10.84480	0.0771345	0.17943869	3.1130922	20	2 5.7	20.5
234510 2001 TX_{179}	16.6	X	1.54973	200.18369	254.31439	3.31010	0.1212863	0.27305658	2.3530669	20	—	—
234511 2001 TC_{184}	17.0	X	250.12197	281.66801	339.57067	4.13519	0.0528287	0.28491617	2.2873080	20	1 9.6	20.0
234512 2001 TL_{216}	14.9	X	182.29528	347.00608	336.20850	10.79487	0.2004761	0.17817639	3.1277782	20	2 1.7	20.2
234513 2001 TU_{232}	17.3	X	227.72978	190.10112	137.40395	7.79657	0.1711761	0.29235684	2.2483325	20	3 5.3	20.7
234514 2001 TW_{240}	14.8	X	91.49978	278.59933	31.14376	18.96641	0.0531246	0.15878375	3.3775258	20	12 4.7	20.0
234515 2001 TP_{256}	15.1	X	186.68858	265.00626	37.80626	9.77899	0.0685554	0.17726371	3.1385050	20	1 8.4	20.0
234516 2001 UP_{12}	16.7	X	52.07845	245.19872	129.09298	2.32741	0.2599035	0.26984231	2.3717160	20	—	—
234517 2001 UP_{14}	15.2	X	150.90451	327.06194	14.42359	10.58093	0.2159008	0.17671000	3.1450578	20	1 30.9	20.5
234518 2001 UN_{24}	14.9	X	218.16852	102.23149	262.26403	11.26482	0.0737888	0.18747218	3.0235106	20	4 17.6	19.7
234519 2001 UC_{36}	16.5	X	340.89135	301.09347	120.37145	7.90174	0.2304262	0.26374850	2.4081085	20	—	—
234520 2001 UT_{40}	16.7	X	344.81067	47.94305	38.29336	6.92828	0.1836925	0.26843682	2.3799874	20	—	—
234521 2001 UH_{44}	15.1	X	103.10231	159.56710	200.18578	13.94585	0.1437537	0.17062673	3.2193734	20	—	—
234522 2001 US_{48}	16.9	X	75.92252	335.24484	62.30489	3.42975	0.2108554	0.27568605	2.3380808	20	—	—
234523 2001 UU_{72}	15.9	X	139.45503	210.87329	152.38971	23.72632	0.1642723	0.28310261	2.2970660	20	1 23.9	19.3
234524 2001 UW_{85}	17.4	X	0.27490	309.88216	152.01615	1.44385	0.1468218	0.27286416	2.3541731	20	—	—
234525 2001 UZ_{88}	17.3	X	322.58444	326.71124	124.64574	6.60352	0.2137796	0.26505118	2.4002117	20	—	—
234526 2001 UD_{127}	15.5	X	261.70917	253.49285	120.59587	5.01545	0.0783220	0.24671991	2.5176764	20	6 24.3	18.7
234527 2001 UD_{141}	15.2	X	255.88352	251.55005	49.59875	11.45023	0.0354829	0.18354736	3.0664599	20	3 26.1	19.7
234528 2001 US_{141}	16.8	X	328.54338	269.94948	205.86342	4.93963	0.1018561	0.27051168	2.3678019	20	—	—
234529 2001 UH_{154}	17.0	X	102.26789	324.19393	51.82815	5.19689	0.1525475	0.27593294	2.3366859	20	—	—
234530 2001 UD_{156}	16.8	X	321.53430	56.76431	49.31666	3.06208	0.1693111	0.26602221	2.3943674	20	—	—
234531 2001 UU_{156}	16.7	X	343.12137	313.82338	93.76188	3.99231	0.1665041	0.26275014	2.4142046	20	—	—
234532 2001 UG_{159}	16.6	X	299.86985	80.90525	54.78394	8.62938	0.1749974	0.26578662	2.3957821	20	—	—
234533 2001 UF_{161}	16.7	X	208.85712	262.18519	71.13482	7.70290	0.2132140	0.28770561	2.2724997	20	2 26.9	20.5
234534 2001 UB_{164}	17.3	X	307.17942	214.30529	101.11924	3.08877	0.1467205	0.30242011	2.1981750	20	5 28.2	19.4
234535 2001 UB_{198}	17.0	X	110.75381	313.31602	72.04621	7.20889	0.1173183	0.28142881	2.3061648	20	1 11.2	19.7
234536 2001 UW_{206}	15.2	X	106.46837	196.84558	152.58817	10.07173	0.1245657	0.17056607	3.2201366	20	—	—
234537 2001 UP_{207}	17.5	X	39.91870	44.48451	41.44793	4.92705	0.1099883	0.27827352	2.3235649	20	—	—
234538 2001 UP_{212}	17.1	X	341.51017	312.01194	202.96802	5.86032	0.0510009	0.27865179	2.3214615	20	—	—
234539 2001 UO_{217}	17.0	X	286.55669	228.45528	54.30828	7.02398	0.1277056	0.29397607	2.2400690	20	3 16.1	19.8
234540 2001 UN_{222}	17.4	X	317.09797	12.36039	90.80112	4.55690	0.1539608	0.26520163	2.3993039	20	—	—
234541 2001 UH_{229}	17.0	X	340.40451	7.58792	122.58744	6.45693	0.0523116	0.27732442	2.3288632	20	—	—
234542 2001 UQ_{229}	15.9	X	283.92285	53.16512	192.46443	4.99169	0.1099211	0.18365372	3.0652758	20	2 4.4	20.4
234543 2001 VV_{14}	16.6	X	307.76456	150.66963	308.11966	4.28477	0.1592763	0.26248755	2.4158145	20	—	—
234544 2001 VK_{19}	16.8	X	357.84017	62.21297	34.13107	5.38677	0.1300940	0.27089867	2.3655464	20	—	—
234545 2001 VH_{20}	17.5	X	348.35179	31.35250	30.91049	2.91963	0.2161822	0.26516972	2.3994963	20	—	—
234546 2001 VF_{38}	15.7	X	331.68719	295.04710	6.71296	1.55763	0.1249153	0.24670432	2.5177825	20	6 24.6	18.2
234547 2001 VE_{59}	17.0	X	2.92468	143.53765	320.35244	2.42935	0.1829643	0.27209033	2.3586345	20	—	—
234548 2001 VJ_{60}	17.1	X	326.95643	122.56504	321.34168	2.83782	0.1505818	0.26472289	2.4021957	20	—	—
234549 2001 VX_{95}	15.4	X	197.76981	247.82908	141.71510	10.23195	0.1605270	0.18572037	3.0424937	20	5 1.9	20.5
234550 2001 VT_{115}	17.3	X	316.40499	60.30407	15.60475	2.36522	0.1805740	0.26081193	2.4261506	20	12 22.0	19.2
234551 2001 VK_{116}	17.0	X	129.72066	324.22180	48.55711	5.27767	0.1726121	0.27938258	2.3174115	20	1 29.2	20.1
234552 2001 VR_{119}	17.0	X	344.19348	28.40731	40.04106	3.48693	0.1777844	0.26404047	2.4063330	20	—	—
234553 2001 WA_{6}	17.3	X	341.75467	130.51856	309.97074	0.31021	0.1610420	0.26733208	2.3865397	20	—	—
234554 2001 WC_{6}	17.2	X	312.10844	61.71531	48.94877	11.56074	0.2008543	0.26593914	2.3948659	20	—	—
234555 2001 WU_{6}	16.8	X	2.29155	116.28053	4.40637	6.42918	0.0577941	0.27527893	2.3403855	20	—	—
234556 2001 WU_{17}	17.0	X	285.30473	287.84817	26.97576	5.72778	0.1799302	0.29792650	2.2202231	20	4 16.3	19.6
234557 2001 WQ_{24}	17.1	X	336.93413	277.65078	212.48149	5.56810	0.0626790	0.27370705	2.3493374	20	—	—
234558 2001 WA_{29}	15.9	X	192.18073	322.09391	98.85861	6.28088	0.1654631	0.24092402	2.5578946	20	5 31.8	19.9
234559 2001 WL_{45}	16.9	X	131.33102	21.42680	327.80968	1.93739	0.1858838	0.27877947	2.3207527	20	—	—
234560 2001 WT_{58}	17.1	X	253.62222	176.83166	52.68832	3.65643	0.0395160	0.27676211	2.3320165	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
234561 2001 WG_{82}	15.5	X	199.95902	261.71190	62.63246	5.62642	0.1588949	0.17898778	3.1183184	20	2 16.8	20.7
234562 2001 WH_{91}	17.2	X	291.15352	128.94532	12.35890	1.81610	0.1352562	0.26549025	2.3975647	20	—	—
234563 2001 XC_{23}	16.4	X	319.19505	139.04374	284.54196	13.79891	0.1951162	0.25844295	2.4409540	20	12 8.8	18.4
234564 2001 XN_{37}	16.3	X	168.64344	205.43838	288.60957	12.54628	0.1732021	0.24537742	2.5268511	20	8 7.9	20.6
234565 2001 XM_{50}	17.1	X	320.34892	248.31534	306.56321	14.33439	0.0323166	0.38090441	1.8847715	20	—	—
234566 2001 XQ_{51}	17.4	X	334.59719	217.73447	218.27384	0.62226	0.1592087	0.26377812	2.4079282	20	—	—
234567 2001 XT_{59}	16.3	X	327.26479	349.15662	90.81618	4.34460	0.1527090	0.26163170	2.4210800	20	—	—
234568 2001 XG_{80}	16.6	X	314.56151	357.65447	150.67385	7.90292	0.1423567	0.26868898	2.3784981	20	—	—
234569 2001 XK_{90}	16.1	X	335.67648	71.40200	61.32282	10.10031	0.1910112	0.27033434	2.3688373	20	—	—
234570 2001 XZ_{105}	16.7	X	324.11933	259.22532	251.43536	2.76011	0.1346113	0.27121380	2.3637136	20	—	—
234571 2001 XO_{107}	17.5	X	295.46994	318.39172	132.97735	0.47868	0.1702293	0.25906688	2.4370333	20	11 28.8	19.4
234572 2001 XN_{111}	16.5	X	77.74964	220.21759	128.50409	8.38735	0.2582241	0.26945566	2.3739843	20	—	—
234573 2001 XQ_{137}	17.1	X	288.69562	14.28232	108.57285	3.59767	0.1334539	0.26154566	2.4216109	20	—	—
234574 2001 XR_{140}	17.0	X	1.79283	246.46197	141.34985	2.07556	0.2042121	0.26189436	2.4194610	20	—	—
234575 2001 XV_{141}	17.0	X	254.89426	252.56845	79.31235	4.18556	0.2016124	0.29320549	2.2439921	20	4 4.3	20.3
234576 2001 XF_{164}	17.2	X	309.64328	283.42308	206.29087	1.74997	0.1500695	0.26449923	2.4035497	20	—	—
234577 2001 XK_{174}	16.8	X	44.40618	156.66848	246.64900	5.28184	0.1785803	0.26802805	2.3824066	20	—	—
234578 2001 XT_{177}	17.3	X	337.62167	206.17584	184.22768	1.84615	0.1915263	0.25642712	2.4537299	20	11 28.2	19.2
234579 2001 XH_{217}	16.6	X	285.80291	18.60735	97.88780	3.67991	0.1427614	0.25823260	2.4422794	20	12 18.9	18.7
234580 2001 XF_{225}	17.4	X	359.61562	54.60806	329.06800	1.47482	0.1866385	0.26175779	2.4203024	20	12 30.7	19.9
234581 2001 XJ_{231}	17.1	X	359.41434	19.91005	11.00501	3.27797	0.1838571	0.26210824	2.4181446	20	—	—
234582 2001 XS_{242}	17.1	X	325.41367	143.66818	278.80676	1.63021	0.1781865	0.25980033	2.4324444	20	12 20.6	19.0
234583 2001 XG_{250}	16.8	X	331.69884	20.40166	92.65521	3.12249	0.1705286	0.26557209	2.3970721	20	—	—
234584 2001 XW_{256}	16.3	X	318.75091	343.88601	142.61189	13.13828	0.0978531	0.26846620	2.3798138	20	—	—
234585 2001 XA_{261}	17.7	X	39.59170	338.32340	78.51934	3.57737	0.1109485	0.27204420	2.3589011	20	—	—
234586 2001 XA_{267}	17.6	X	348.84807	257.52355	176.65585	1.48958	0.1560883	0.26329866	2.4108505	20	—	—
234587 2001 YU_{10}	17.2	X	268.11331	316.91844	291.15657	22.96210	0.0300145	0.38131466	1.8834194	20	—	—
234588 2001 YU_{25}	17.6	X	313.92131	21.70998	48.43719	2.00762	0.1677211	0.25984271	2.4321799	20	12 6.5	19.7
234589 2001 YY_{25}	15.6	X	313.51922	256.28801	57.26636	2.13838	0.1656246	0.24478396	2.5309336	20	6 2.2	18.1
234590 2001 YC_{54}	17.1	X	341.23712	38.55551	42.30212	2.91331	0.1784780	0.26368693	2.4084833	20	—	—
234591 2001 YY_{57}	17.5	X	314.05111	32.40364	54.25690	1.80777	0.1593671	0.26057069	2.4276477	20	—	—
234592 2001 YL_{63}	16.8	X	271.94575	45.20032	81.84401	3.32614	0.1631669	0.25791473	2.4442856	20	12 5.8	19.3
234593 2001 YC_{71}	16.4	X	311.80901	59.16605	98.66154	6.87851	0.0435788	0.26790304	2.3831477	20	—	—
234594 2001 YU_{80}	16.5	X	22.41712	333.02323	84.47346	5.61671	0.1097083	0.26502140	2.4003915	20	—	—
234595 2001 YB_{89}	16.0	X	242.44905	107.07610	98.89762	10.43434	0.1778934	0.26128124	2.4232445	20	—	—
234596 2001 YO_{93}	17.1	X	312.38423	107.58917	344.20979	0.96908	0.1475407	0.25882854	2.4385291	20	—	—
234597 2001 YB_{104}	16.4	X	167.70597	4.01511	112.88018	10.91860	0.1699440	0.24028861	2.5624020	20	7 19.1	20.6
234598 2001 YH_{107}	16.4	X	264.74724	53.50087	120.49881	6.00661	0.1343625	0.26046403	2.4283105	20	—	—
234599 2001 YZ_{125}	16.3	X	0.81438	338.22997	49.73366	9.29372	0.1334022	0.26017317	2.4301199	20	12 29.5	19.1
234600 2001 YU_{139}	15.3	X	108.81127	326.04341	237.54382	13.41344	0.2465944	0.23807488	2.5782617	20	9 11.8	19.9
234601 2001 YV_{152}	16.5	X	350.78105	3.69767	56.57835	7.97977	0.2104891	0.26233151	2.4167723	20	—	—
234602 2001 YS_{161}	16.0	X	122.10316	158.61322	3.72859	8.35225	0.0634482	0.23978929	2.5659579	20	7 28.1	19.7
234603 2002 AT_{37}	16.8	X	341.95737	347.20519	110.07446	7.29255	0.0908880	0.26623620	2.3930842	20	—	—
234604 2002 AS_{43}	16.7	X	78.19606	332.59415	262.12724	5.14005	0.0655939	0.24363769	2.5388657	20	9 3.7	20.2
234605 2002 AO_{45}	16.3	X	232.65365	314.18644	275.49826	8.67191	0.2016302	0.26298490	2.4127677	20	—	—
234606 2002 AG_{46}	17.6	X	267.21515	345.74260	155.89259	2.71296	0.1579759	0.25738538	2.4476358	20	12 18.9	20.0
234607 2002 AN_{47}	16.5	X	212.92561	85.51658	138.13772	5.56084	0.1631949	0.25940610	2.4349082	20	—	—
234608 2002 AW_{50}	17.3	X	271.87382	359.29013	119.72236	3.04792	0.1640398	0.25520608	2.4615502	20	11 23.8	19.8
234609 2002 AA_{54}	17.3	X	261.67779	21.57081	150.89604	2.77437	0.1559135	0.26043990	2.4284604	20	—	—
234610 2002 AG_{56}	16.5	X	255.26192	241.21885	271.73795	5.26912	0.0721390	0.25693499	2.4504953	20	12 26.9	19.5
234611 2002 AN_{67}	17.6	X	311.43888	127.44385	343.49636	2.14217	0.1563223	0.26111874	2.4242497	20	—	—
234612 2002 AZ_{78}	17.2	X	295.92033	33.03696	79.77528	4.00275	0.1401185	0.25939071	2.4350045	20	—	—
234613 2002 AZ_{87}	17.0	X	29.27697	236.36229	135.86072	3.02233	0.2215185	0.26176834	2.4202374	20	—	—
234614 2002 AC_{91}	17.6	X	291.65788	327.95962	162.48973	1.33819	0.1304928	0.26035751	2.4289727	20	—	—
234615 2002 AV_{95}	16.6	X	230.75422	170.69862	71.70605	3.97232	0.1547211	0.26574664	2.3960223	20	—	—
234616 2002 AU_{96}	16.7	X	325.23595	2.78897	87.84763	4.83534	0.0926492	0.26001805	2.4310863	20	—	—
234617 2002 AZ_{99}	16.4	X	241.30158	67.92783	85.32425	3.68890	0.1397498	0.25441321	2.4666618	20	11 26.7	19.5
234618 2002 AH_{100}	16.4	X	228.33957	243.59265	315.47420	7.75660	0.1612137	0.25754140	2.4466472	20	—	—
234619 2002 AN_{106}	17.3	X	291.54649	3.44230	113.67521	3.39529	0.1362065	0.25789689	2.4443983	20	12 31.1	19.5
234620 2002 AZ_{131}	16.6	X	190.62067	181.41242	275.10083	4.93318	0.1719828	0.24195429	2.5506282	20	7 13.8	20.6
234621 2002 AH_{145}	17.3	X	316.08996	295.51204	146.57049	3.21498	0.1528624	0.25781128	2.4449394	20	12 27.9	19.4
234622 2002 AL_{146}	17.1	X	253.90867	211.88924	291.16294	3.85688	0.1469104	0.25522841	2.4614067	20	11 29.4	19.8
234623 2002 AA_{173}	15.9	X	300.65852	268.92452	307.41769	12.36336	0.1205732	0.27139183	2.3626798	20	1 6.5	19.0
234624 2002 AH_{187}	17.0	X	306.14452	85.80627	346.85267	11.78775	0.1825963	0.25513702	2.4619944	20	11 15.7	19.5
234625 2002 AL_{199}	16.3	X	158.37168	23.81526	312.70570	5.83128	0.1613926	0.27447242	2.3449679	20	1 12.5	19.5
234626 2002 AK_{201}	16.4	X	177.36138	309.70644	308.10743	5.58797	0.0823578	0.26096156	2.4252231	20	—	—
234627 2002 BA_{11}	16.1	X	294.40384	8.89833	135.24466	6.24135	0.2170427	0.25860586	2.4399287	20	—	—
234628 2002 BS_{14}	16.6	X	343.08535	221.21318	285.91292	4.03844	0.1704308	0.26678432	2.3898052	20	—	—
234629 2002 BX_{24}	16.0	X	104.68320	129.48169	27.64583	11.27396	0.1291234	0.23280353	2.6170359	20	7 5.5	20.0
234630 2002 CD_{1}	16.4	X	165.23680	101.88435	188.82301	8.27403	0.1735071	0.26202292	2.4186695	20	—	—
234631 2002 CL_{11}	16.9	X	159.57735	227.26657	318.58867	5.10318	0.1229455	0.24464665	2.5318805	20	10 5.5	20.9
234632 2002 CP_{11}	17.2	X	61.30274	252.33000	153.88292	22.88440	0.1265064	0.37261627	1.9126177	20	—	—
234633 2002 CG_{12}	17.0	X	323.09345	55.01437	143.03481	21.76872	0.0474875	0.37981963	1.8883585	20	—	—
234634 2002 CL_{15}	16.8	X	265.30018	10.35250	163.30455	5.24388	0.1205428	0.25898426	2.4375515	20	—	—
234635 2002 CE_{18}	16.2	X	210.18540	230.49850	42.45093	7.10976	0.0941718	0.26632253	2.3925670	20	—	—
234636 2002 CD_{38}	16.3	X	90.68667	247.33836	305.87950	8.53045	0.0512152	0.23598316	2.5934749	20	7 25.5	19.7
234637 2002 CP_{46}	16.8	X	54.63559	339.55510	334.93608	3.41826	0.1210732	0.24505358	2.5290768	20	11 28.3	20.2
234638 2002 CS_{46}	16.0	X	267.26288	55.80520	353.53594	27.75189	0.3124269	0.24313225	2.5423832	20	7 27.0	20.1
234639 2002 CU_{82}	16.8	X	226.87676	202.73171	10.62032	2.80918	0.1203925	0.25708069	2.4495694	20	—	—
234640 2002 CL_{117}	16.2	X	115.94543	46.63237	116.22359	13.78609	0.2277088	0.23239220	2.6201231	20	8 2.7	20.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
234641 2002 CA_{128}	17.2	X	250.89970	28.03728	148.75963	1.79241	0.1294005	0.25766200	2.4458837	20	—	—
234642 2002 CB_{178}	17.4	X	203.41297	281.46616	300.48621	0.40965	0.1320724	0.25688848	2.4507911	20	—	—
234643 2002 CH_{179}	17.3	X	285.06158	99.53070	34.21126	1.93369	0.1446380	0.25811317	2.4430327	20	—	—
234644 2002 CG_{180}	16.6	X	208.55657	91.77139	322.14368	11.02444	0.1085664	0.23648985	2.5897691	20	6 9.2	20.7
234645 2002 CJ_{185}	16.6	X	112.50308	336.26072	344.96880	5.93534	0.1139929	0.25983952	2.4321998	20	—	—
234646 2002 CC_{198}	17.7	X	293.07569	163.53783	331.60179	0.83671	0.1390113	0.25833405	2.4416399	20	—	—
234647 2002 CX_{251}	16.7	X	338.22901	91.00540	356.17997	9.23274	0.0527877	0.25932562	2.4354120	20	—	—
234648 2002 CH_{254}	16.6	X	203.82620	94.19914	138.19338	7.78769	0.0801478	0.25907779	2.4369648	20	—	—
234649 2002 CE_{275}	16.3	X	139.49776	314.38850	314.67762	6.07891	0.1046850	0.25584828	2.4574294	20	—	—
234650 2002 CH_{304}	14.9	X	180.98858	271.92328	159.57185	11.60333	0.1966500	0.12535919	3.9539569	20	6 4.5	21.5
234651 2002 CW_{304}	16.6	X	151.73126	84.36379	157.62034	8.76746	0.1713341	0.24291011	2.5439329	20	12 7.9	20.8
234652 2002 DL_{19}	17.5	X	127.16697	354.66679	343.66633	17.98482	0.0817848	0.36937346	1.9237956	20	—	—
234653 2002 EN_{5}	17.1	X	357.75489	321.60645	171.24744	23.32695	0.0765567	0.37386797	1.9083464	20	—	—
234654 2002 EP_{8}	16.4	X	81.33407	124.57517	166.42211	7.27407	0.0497076	0.24617359	2.5214000	20	11 23.8	19.9
234655 2002 EJ_{38}	16.9	X	168.07203	282.50751	343.46332	2.18024	0.1443019	0.25586010	2.4573537	20	—	—
234656 2002 EN_{53}	17.3	X	270.23524	332.74355	163.38024	3.86736	0.1834504	0.25435913	2.4670114	20	12 11.9	19.7
234657 2002 EJ_{103}	15.8	X	248.67008	301.07276	15.01460	7.48372	0.0917546	0.22065087	2.7122660	20	3 22.9	19.6
234658 2002 ER_{103}	17.6	X	235.65605	342.40281	205.83848	0.99275	0.1231700	0.25498581	2.4629676	20	—	—
234659 2002 EG_{115}	16.6	X	109.44815	134.87844	116.72929	5.56898	0.2309471	0.23965579	2.5669107	20	11 15.6	21.0
234660 2002 ET_{128}	16.5	X	54.94373	130.85892	156.55733	6.47398	0.1236767	0.24073341	2.5592447	20	10 27.3	20.0
234661 2002 EH_{134}	15.9	X	300.09448	244.06842	186.92113	1.68498	0.0609096	0.24590006	2.5232694	20	11 11.6	18.8
234662 2002 EJ_{136}	16.9	X	91.98989	62.68626	152.73816	4.99970	0.1413661	0.23547247	2.5972233	20	9 7.0	20.7
234663 2002 EO_{145}	16.3	X	255.16787	284.15628	186.65885	14.86833	0.1001661	0.24481327	2.5307316	20	10 25.8	19.5
234664 2002 EP_{146}	17.0	X	219.48401	194.81900	35.82018	4.44383	0.2217954	0.25426512	2.4676195	20	—	—
234665 2002 ER_{148}	16.4	X	46.82591	102.47502	164.06205	3.38517	0.0565752	0.23589742	2.5941032	20	9 4.7	19.7
234666 2002 FH_{12}	15.9	X	33.26590	337.74167	11.57678	7.38581	0.0551277	0.24702658	2.5155923	20	12 6.8	19.3
234667 2002 FW_{28}	15.2	X	8.74931	283.25249	45.62592	11.98344	0.2068197	0.23798907	2.5788814	20	10 27.5	17.9
234668 2002 FT_{33}	16.5	X	121.60580	98.76791	59.51462	10.17240	0.2159462	0.23201446	2.6229661	20	8 3.6	20.9
234669 2002 FW_{34}	16.2	X	228.49081	208.35341	297.36285	2.96414	0.1007657	0.24555354	2.5256427	20	11 2.3	19.6
234670 2002 GM	17.0	X	322.90796	319.44785	173.38281	22.86208	0.0634306	0.36626956	1.9346489	20	—	—
234671 2002 GA_{5}	17.4	X	262.59818	40.79691	198.73012	23.61367	0.0877640	0.37035360	1.9203999	20	—	—
234672 2002 GE_{14}	16.7	X	187.41889	337.88955	203.38735	5.50969	0.1312424	0.24242014	2.5473596	20	10 29.8	20.4
234673 2002 GQ_{14}	16.3	X	33.42232	1.77687	1.82254	20.09833	0.0699403	0.35885697	1.9611996	20	—	—
234674 2002 GP_{38}	14.2	X	45.30952	95.11823	190.89258	8.46466	0.1991566	0.12465974	3.9687332	20	10 1.7	19.4
234675 2002 GY_{41}	16.6	X	199.41680	285.10804	204.69009	8.02091	0.1107894	0.23944673	2.5684046	20	9 5.2	20.5
234676 2002 GA_{52}	16.5	X	117.87443	171.83945	93.08559	1.27128	0.1205753	0.24332325	2.5410525	20	12 3.9	20.4
234677 2002 GH_{52}	16.2	X	144.23637	207.64882	24.79701	6.84882	0.0621134	0.24336170	2.5407849	20	11 18.9	19.8
234678 2002 GJ_{64}	16.5	X	99.07652	153.88242	114.38754	2.81314	0.1369209	0.23967771	2.5667542	20	11 20.4	20.3
234679 2002 GW_{64}	15.7	X	357.67535	336.82687	42.36804	15.56204	0.0599161	0.24239637	2.5475261	20	11 24.9	18.9
234680 2002 GQ_{66}	16.3	X	82.08227	239.14882	66.93686	4.22152	0.3168555	0.23996561	2.5647008	20	12 31.5	20.8
234681 2002 GT_{82}	16.4	X	172.38130	29.86464	158.21723	5.57256	0.0970083	0.24139313	2.5545797	20	10 26.3	20.2
234682 2002 GF_{83}	16.7	X	111.26243	107.55394	141.32061	5.99383	0.1330633	0.23942935	2.5685289	20	11 9.6	20.7
234683 2002 GF_{85}	16.6	X	79.73630	166.57655	114.39554	4.01819	0.1921247	0.23916082	2.5704511	20	11 21.9	20.6
234684 2002 GD_{89}	16.6	X	141.41100	137.31165	93.64424	12.41575	0.2338771	0.24129743	2.5552550	20	11 17.5	21.1
234685 2002 GS_{97}	16.6	X	139.40168	241.19108	214.96339	1.57141	0.1739955	0.22602338	2.6691141	20	5 27.2	20.8
234686 2002 GJ_{99}	16.9	X	166.89772	8.79021	186.31001	3.62207	0.1224329	0.24295604	2.5436123	20	10 27.2	20.9
234687 2002 GD_{101}	16.4	X	105.95251	154.56012	344.90685	2.47069	0.1508543	0.22660246	2.6645649	20	6 14.7	20.3
234688 2002 GE_{104}	16.3	X	138.68817	2.13105	149.01724	8.18273	0.1651841	0.23141109	2.6275235	20	8 3.5	20.5
234689 2002 GC_{110}	16.1	X	104.86251	71.31300	154.91016	5.07106	0.1163068	0.23706233	2.5855980	20	10 3.6	19.9
234690 2002 GG_{110}	15.3	X	332.11666	202.22201	183.60330	15.20862	0.1878814	0.24183011	2.5515013	20	11 5.6	17.7
234691 2002 GO_{115}	16.6	X	91.11977	220.49202	71.93918	8.00834	0.2585288	0.24124050	2.5556570	20	12 18.9	20.9
234692 2002 GG_{121}	16.7	X	116.36318	156.96511	109.45361	6.94194	0.1951031	0.24090884	2.5580020	20	12 6.7	21.1
234693 2002 GD_{124}	16.1	X	266.43357	303.31675	190.47821	9.64602	0.1123086	0.25163897	2.4847581	20	12 11.5	19.1
234694 2002 GG_{125}	15.9	X	342.99605	145.09489	229.82185	4.02946	0.0753532	0.24366293	2.5386904	20	10 31.7	18.7
234695 2002 GF_{129}	16.6	X	108.37045	256.82582	11.47685	16.53494	0.1418647	0.24216619	2.5491401	20	11 24.6	20.9
234696 2002 GW_{129}	16.8	X	119.43510	194.94791	39.75683	1.15733	0.0867903	0.24017092	2.5632390	20	10 27.0	20.6
234697 2002 GJ_{134}	15.7	X	334.72616	177.63051	203.90455	12.41065	0.1086527	0.24178099	2.5518469	20	10 29.6	18.3
234698 2002 GP_{143}	16.8	X	128.68653	8.60140	206.45552	5.22608	0.1254610	0.23766646	2.5812146	20	10 12.9	20.7
234699 2002 GR_{144}	15.9	X	123.01930	108.15533	86.84952	13.67534	0.1070075	0.23441453	2.6050318	20	9 18.0	20.1
234700 2002 GW_{144}	15.9	X	199.41307	271.94069	91.48095	6.58309	0.0903215	0.21930108	2.7233839	20	4 1.1	20.1
234701 2002 GW_{146}	16.4	X	112.77988	89.96832	159.87600	10.76269	0.0557225	0.24232861	2.5480010	20	11 9.6	20.1
234702 2002 GT_{158}	16.9	X	129.19412	69.64570	165.57416	7.97228	0.1983989	0.23938438	2.5688506	20	11 11.4	21.3
234703 2002 GJ_{159}	16.3	X	148.11423	8.53584	210.13263	9.77505	0.0909700	0.24123013	2.5557302	20	11 7.1	20.0
234704 2002 GG_{163}	15.2	X	325.67390	321.93380	50.27736	6.58225	0.3335769	0.23678739	2.5875992	20	9 22.1	16.3
234705 2002 GG_{169}	16.5	X	62.57611	40.83184	227.04075	3.71040	0.2113413	0.23335977	2.6128755	20	10 18.9	20.1
234706 2002 GQ_{171}	16.1	X	97.79329	241.84643	29.34342	7.04273	0.0636555	0.24282499	2.5445274	20	11 15.8	19.8
234707 2002 HB_{10}	16.0	X	164.75184	303.23799	199.08069	15.17329	0.0852408	0.23418514	2.6067326	20	8 13.5	20.2
234708 2002 HZ_{12}	16.8	X	153.75268	72.78504	173.25048	23.67601	0.0531045	0.35351630	1.9809024	20	—	—
234709 2002 JC_{7}	16.4	X	191.09569	41.05869	153.48844	6.44919	0.1098798	0.24406095	2.5359295	20	11 22.6	20.2
234710 2002 JD_{8}	16.1	X	59.19445	180.38602	116.45008	7.18537	0.2015137	0.23662779	2.5887625	20	11 22.4	19.9
234711 2002 JD_{16}	15.7	X	75.48898	241.49908	29.27593	15.81008	0.1125387	0.23571646	2.5954307	20	10 25.3	19.4
234712 2002 JY_{18}	16.6	X	137.71008	87.11762	150.41260	5.22537	0.0843095	0.24071135	2.5594010	20	11 20.4	20.4
234713 2002 JT_{36}	16.2	X	115.71295	111.19778	134.51708	6.95970	0.1309824	0.23820187	2.5773453	20	11 10.2	20.2
234714 2002 JX_{67}	16.5	X	123.44055	88.52409	151.69123	4.57885	0.1417223	0.23887599	2.5724941	20	11 10.3	20.5
234715 2002 JJ_{83}	16.0	X	143.47617	98.64933	36.94566	13.31560	0.2082721	0.23036352	2.6354832	20	7 25.2	20.7
234716 2002 JY_{85}	15.8	X	1.98015	157.48481	22.28721	4.75181	0.0066861	0.21183362	2.7870160	20	3 4.8	19.5
234717 2002 JM_{94}	16.2	X	193.59964	293.27981	239.06056	5.89019	0.1301832	0.24034397	2.5620085	20	10 23.1	20.1
234718 2002 JD_{99}	15.8	X	144.63323	118.41611	105.63784	15.22223	0.0575073	0.24224709	2.5485726	20	11 15.4	19.7
234719 2002 JB_{119}	15.8	X	79.30936	135.13086	132.10694	16.17274	0.1167671	0.23549073	2.5970890	20	11 1.7	19.9
234720 2002 JF_{119}	16.4	X	186.27771	9.77994	150.83257	12.75346	0.1666609	0.23925458	2.5697796	20	10 2.7	20.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
234721 2002 JC_{120}	16.0	X	53.01022	149.12913	157.38576	15.36972	0.1374289	0.23775369	2.5805832	20	11 21.5	19.9
234722 2002 JU_{127}	16.0	X	128.58299	330.45779	196.93250	12.78664	0.1081816	0.23042492	2.6350150	20	8 7.9	20.3
234723 2002 JR_{136}	16.2	X	331.21169	291.31619	49.81956	3.88748	0.0375795	0.23090246	2.6313806	20	8 26.4	19.5
234724 2002 JL_{144}	16.4	X	78.55553	182.61102	129.18460	6.67334	0.2942471	0.23665083	2.5885945	20	—	—
234725 2002 KL_{8}	15.6	X	87.97818	81.00295	158.15533	27.41405	0.2839853	0.23281651	2.6169386	20	10 20.7	20.4
234726 2002 KN_{11}	16.1	X	265.99000	295.62825	63.24497	7.23905	0.0437201	0.22321909	2.6914222	20	6 13.4	19.6
234727 2002 KK_{12}	15.7	X	138.93360	88.73995	145.87574	9.58946	0.1339672	0.23917449	2.5703532	20	11 19.1	19.9
234728 2002 KB_{16}	16.8	X	17.34368	169.34270	141.38856	1.43443	0.2065521	0.22950154	2.6420781	20	10 13.8	19.6
234729 2002 KF_{16}	16.4	X	81.12664	69.27813	159.99054	5.99977	0.1061530	0.22954698	2.6417294	20	9 7.1	20.1
234730 2002 LW_{1}	16.6	X	42.02744	138.62391	140.12649	3.10471	0.1732640	0.22891423	2.6465952	20	10 3.2	19.9
234731 2002 LT_{22}	15.3	X	143.59406	27.69482	253.43104	9.80402	0.1036102	0.18923258	3.0047299	20	—	—
234732 2002 LH_{31}	17.0	X	87.53528	45.32756	256.09573	3.81233	0.3530469	0.23480079	2.6021741	20	12 30.6	21.7
234733 2002 LW_{32}	16.1	X	155.51359	106.24537	69.74456	12.48217	0.1286828	0.23563221	2.5960494	20	9 27.4	20.4
234734 2002 LD_{34}	16.1	X	51.58414	157.48299	142.45739	6.92776	0.1578072	0.23287373	2.6165099	20	11 11.8	19.8
234735 2002 LB_{37}	15.9	X	102.25107	338.93394	256.93288	9.95184	0.2129631	0.22977596	2.6399740	20	10 14.7	20.4
234736 2002 LW_{41}	16.1	X	15.92027	141.07043	174.05094	6.71564	0.2427726	0.22656223	2.6648803	20	10 23.9	18.9
234737 2002 LO_{47}	15.7	X	71.99551	33.85142	174.17501	12.30696	0.1919057	0.22510495	2.6763692	20	8 7.9	19.6
234738 2002 LH_{53}	15.4	X	69.67216	255.06894	91.31495	4.91852	0.2222176	0.23538219	2.5978873	20	—	—
234739 2002 LO_{54}	16.5	X	120.03365	173.95227	68.23205	5.73535	0.1425988	0.23710724	2.5852715	20	11 8.7	20.5
234740 2002 LL_{57}	16.3	X	302.02462	163.86750	170.94130	9.58631	0.1671540	0.22025986	2.7154750	20	6 13.7	19.7
234741 2002 LH_{59}	16.1	X	120.88624	92.86886	135.70458	12.90810	0.1611407	0.23151033	2.6267725	20	10 28.0	20.6
234742 2002 LM_{62}	15.2	X	309.87492	328.30481	108.79616	18.60869	0.0250968	0.17882976	3.1201552	20	11 24.4	19.8
234743 2002 NM_{11}	16.7	X	31.09503	179.12025	118.41653	4.63637	0.2572587	0.22596220	2.6695958	20	10 26.7	20.0
234744 2002 NT_{15}	16.3	X	64.50121	160.33260	98.62603	15.06073	0.2201218	0.22669858	2.6638117	20	10 18.5	20.5
234745 2002 NP_{17}	16.3	X	50.28588	176.63816	104.82242	15.33906	0.2404519	0.22742617	2.6581272	20	11 1.9	20.3
234746 2002 NF_{40}	16.3	X	304.23226	2.59816	323.85783	4.03026	0.1252018	0.21459220	2.7630798	20	6 10.9	19.6
234747 2002 NX_{43}	15.9	X	70.17821	91.95668	182.54839	14.73755	0.1126963	0.23185372	2.6241783	20	10 25.9	19.7
234748 2002 NH_{57}	16.5	X	12.27875	227.26961	79.36592	4.88313	0.0842147	0.22436631	2.6822399	20	9 13.5	19.7
234749 2002 NF_{61}	16.2	X	243.23721	330.71453	20.51601	5.07857	0.1271384	0.20906827	2.8115380	20	4 25.6	20.4
234750 Amymainzer	15.4	X	33.74497	113.47877	210.56046	19.38973	0.2048199	0.17163710	3.2067267	20	11 11.9	19.6
234751 2002 ND_{70}	15.8	X	106.32415	152.23421	158.04197	10.56869	0.0542952	0.18236905	3.0796542	20	12 30.2	20.5
234752 2002 NG_{72}	16.3	X	322.79804	171.44841	176.95118	6.05574	0.0525499	0.22201380	2.7011543	20	8 18.5	19.8
234753 2002 OQ_{1}	14.9	X	46.81165	90.80266	253.91858	9.92337	0.1566468	0.17558519	3.1584751	20	12 16.2	19.4
234754 2002 OY_{4}	16.7	X	14.80214	112.73798	180.56455	12.20964	0.1896356	0.22185622	2.7024332	20	9 7.5	19.6
234755 2002 OQ_{5}	15.4	X	25.64770	66.29049	271.93161	17.42371	0.1293658	0.17326254	3.1866395	20	11 3.2	19.9
234756 2002 OX_{15}	15.9	X	261.06788	156.48157	206.29660	10.17931	0.1413230	0.21087317	2.7954721	20	5 30.1	20.1
234757 2002 OH_{17}	16.5	X	15.09914	122.98487	170.07641	9.09181	0.2515116	0.22170637	2.7036508	20	9 19.6	18.9
234758 2002 OD_{29}	16.3	X	77.38632	69.55625	133.80603	5.59011	0.1146657	0.21837457	2.7310816	20	7 29.6	20.1
234759 2002 OB_{30}	16.7	X	96.80498	261.88290	20.04559	6.39657	0.2691731	0.23343714	2.6122982	20	12 9.9	21.3
234760 2002 OC_{31}	15.2	X	58.04075	177.72906	165.90286	16.20147	0.0612477	0.17875303	3.1210479	20	12 17.1	19.9
234761 Rainerkracht	16.1	X	64.45039	103.95722	155.05651	6.41974	0.1522397	0.22513935	2.6760966	20	10 3.0	19.8
234762 2002 PL_{1}	15.8	X	303.00087	36.56348	286.03701	11.22915	0.2534931	0.21069729	2.7970275	20	5 11.3	19.4
234763 2002 PX_{9}	15.2	X	10.51938	77.57884	276.69625	9.10201	0.0810551	0.17210324	3.2009337	20	10 27.1	19.6
234764 2002 PL_{21}	15.3	X	318.13654	141.39817	306.47873	26.36969	0.1125917	0.17855219	3.1233879	20	12 12.8	19.6
234765 2002 PJ_{29}	16.6	X	18.29946	126.40928	159.65354	9.47563	0.2069284	0.22097802	2.7095884	20	9 7.9	19.5
234766 2002 PU_{41}	15.6	X	52.31583	175.09575	166.02455	14.13406	0.2613173	0.22846675	2.6500498	20	—	—
234767 2002 PG_{49}	15.8	X	69.70310	142.25490	175.92271	13.37226	0.3539916	0.23139769	2.6276249	20	—	—
234768 2002 PT_{66}	14.9	X	53.42664	196.79643	128.92800	17.26080	0.1047557	0.17638349	3.1489379	20	11 29.1	19.6
234769 2002 PP_{68}	16.0	X	299.15368	132.20447	176.79553	4.40511	0.0576248	0.21032401	2.8003360	20	5 21.8	19.6
234770 2002 PX_{74}	15.8	X	351.99944	121.55077	162.91548	17.28568	0.3107149	0.21569902	2.7536196	20	7 5.1	18.0
234771 2002 PN_{76}	15.8	X	357.84512	287.67729	113.22741	28.97117	0.1759143	0.23251277	2.6192172	20	—	—
234772 2002 PP_{98}	15.2	X	19.64039	289.94518	6.43400	11.87586	0.2032709	0.22066117	2.7121817	20	9 25.0	18.1
234773 2002 PE_{111}	15.2	X	74.50535	198.16462	227.47413	9.85453	0.1201704	0.19013332	2.9952326	20	1 26.1	19.2
234774 2002 PM_{117}	15.8	X	59.13448	101.58064	197.04814	14.98522	0.3099851	0.22767917	2.6561577	20	12 3.7	20.2
234775 2002 PQ_{133}	16.0	X	217.34642	3.33424	322.52967	5.42726	0.0896242	0.20043842	2.8916700	20	3 1.6	20.5
234776 2002 PP_{139}	15.9	X	344.02356	107.24370	185.34900	9.20512	0.1620774	0.21409411	2.7673637	20	6 30.4	18.9
234777 2002 PV_{157}	15.5	X	43.70680	245.98463	129.29071	13.89214	0.0345477	0.18102164	3.0949173	20	—	—
234778 2002 PW_{162}	16.3	X	321.61568	163.13139	129.25616	5.26693	0.0393033	0.21139758	2.7908471	20	6 2.8	19.9
234779 2002 PQ_{169}	16.7	X	4.46392	166.78313	101.36205	3.53555	0.1476578	0.21512027	2.7585561	20	7 6.9	19.6
234780 2002 PK_{178}	15.7	X	62.75746	17.48399	7.96612	4.87886	0.2205701	0.18347577	3.0672575	20	—	—
234781 2002 PP_{184}	16.2	X	152.60260	205.47799	131.44221	11.95614	0.0759562	0.19279714	2.9675793	20	1 9.7	20.7
234782 2002 PX_{184}	16.2	X	286.28991	112.29928	171.50753	6.89399	0.0066432	0.20507216	2.8479448	20	4 9.6	20.1
234783 2002 PJ_{186}	15.9	X	151.71049	34.39456	14.57160	5.82996	0.0700203	0.20181356	2.8785194	20	4 3.5	20.0
234784 2002 PN_{188}	16.3	X	350.54300	284.12690	356.71641	3.51357	0.0655481	0.21378380	2.7700409	20	6 28.8	19.8
234785 2002 PS_{188}	16.8	X	135.14182	14.08283	52.72962	2.83221	0.0201673	0.20200904	2.8766621	20	4 2.4	20.7
234786 2002 QY_{3}	15.7	X	34.55191	295.09239	312.25661	11.80989	0.1387476	0.21610228	2.7501929	20	7 31.8	18.8
234787 2002 QL_{4}	15.6	X	128.70617	45.97396	312.49128	7.82053	0.1040145	0.18980023	2.9987359	20	1 13.8	19.9
234788 2002 QD_{20}	15.6	X	125.09671	155.26974	215.66591	8.24083	0.1535856	0.18876722	3.0096662	20	1 27.6	20.2
234789 2002 QV_{22}	15.1	X	106.67935	128.52146	135.23846	10.06231	0.0587647	0.17510110	3.1642938	20	11 8.5	19.9
234790 2002 QE_{23}	15.7	X	60.86709	57.22938	328.18851	9.85590	0.1499825	0.18318146	3.0705420	20	—	—
234791 2002 QN_{37}	16.5	X	208.31274	284.50029	32.13394	2.34600	0.0565969	0.19427469	2.9525136	20	2 13.6	20.8
234792 2002 QR_{47}	16.0	X	293.63543	298.15018	46.08352	3.73867	0.1116142	0.21248174	2.7813457	20	6 21.7	19.4
234793 2002 QF_{50}	15.8	X	144.90434	348.75556	94.08538	3.12253	0.0592358	0.20341641	2.8633783	20	5 8.4	20.0
234794 2002 QX_{53}	15.1	X	118.64722	140.80150	133.72731	11.42983	0.0201346	0.17597380	3.1538234	20	11 30.7	19.8
234795 2002 QR_{61}	16.3	X	265.73892	357.46403	330.38379	1.33161	0.0722979	0.20693638	2.8308150	20	4 28.6	20.3
234796 2002 QK_{62}	15.9	X	14.79454	302.38680	325.92886	7.28331	0.1107675	0.21600896	2.7509849	20	7 25.1	19.0
234797 2002 QZ_{62}	16.6	X	303.72224	321.41135	353.05272	4.57342	0.1544878	0.21143444	2.7905227	20	5 18.8	20.2
234798 2002 QO_{69}	15.9	X	187.81241	341.54278	40.78477	2.27408	0.0625898	0.20297766	2.8675031	20	4 10.1	20.2
234799 2002 QV_{71}	16.0	X	342.63675	98.34660	161.63217	4.69001	0.0620389	0.20945342	2.8080903	20	5 19.4	19.6
234800 2002 QQ_{73}	16.4	X	24.91645	259.73184	33.34309	5.33586	0.1430085	0.22125516	2.7073253	20	9 21.4	19.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
234801 2002 QB_{78}	16.3	X	283.74326	160.23812	170.93232	5.55967	0.0902292	0.21057403	2.7981190	20	5 25.4	20.1
234802 2002 QN_{78}	16.4	X	239.34350	358.88680	331.31344	4.96107	0.1670753	0.20394155	2.8584608	20	3 22.9	20.9
234803 2002 QT_{78}	15.8	X	76.99845	95.96269	222.95603	5.42695	0.1177010	0.17821389	3.1273394	20	12 14.8	20.5
234804 2002 QD_{83}	16.2	X	313.58938	98.00330	300.36852	7.62613	0.1006281	0.16858008	3.2453774	20	9 25.7	20.5
234805 2002 QY_{85}	15.9	X	309.17273	175.99099	106.57267	6.95610	0.0305667	0.20611927	2.8382915	20	5 6.0	19.7
234806 2002 QN_{88}	16.1	X	270.19396	272.08672	95.42908	4.57789	0.1074753	0.21167565	2.7884024	20	6 21.1	19.7
234807 2002 QK_{94}	15.1	X	344.09964	92.51721	339.69485	12.70096	0.0263212	0.17874171	3.1211798	20	12 27.8	19.6
234808 2002 QT_{95}	16.1	X	30.05895	323.90825	112.64356	7.01528	0.2202511	0.18388984	3.0626513	20	—	—
234809 2002 QV_{97}	16.3	X	54.01333	43.77547	175.84178	6.24296	0.0413732	0.21374049	2.7704151	20	7 7.3	20.1
234810 2002 QX_{100}	16.4	X	227.13904	1.83464	349.93231	15.29226	0.1462991	0.20496625	2.8489259	20	4 4.5	21.0
234811 2002 QU_{101}	16.3	X	12.11385	79.69980	345.43040	15.04188	0.2470380	0.17744398	3.1363789	20	—	—
234812 2002 QQ_{102}	16.0	X	354.63798	248.84758	57.33540	5.42380	0.1254702	0.21824824	2.7321354	20	8 15.3	19.0
234813 2002 QJ_{112}	16.2	X	270.55390	149.07428	166.77582	7.80970	0.0935275	0.20657196	2.8341433	20	4 18.9	20.2
234814 2002 QD_{114}	16.0	X	318.52818	62.68201	229.30315	4.81332	0.0177134	0.20935877	2.8089367	20	5 30.5	19.8
234815 2002 QN_{114}	15.9	X	136.01846	199.96910	178.47287	10.70642	0.0938797	0.19357847	2.9595886	20	2 10.2	20.4
234816 2002 QG_{128}	16.4	X	357.64548	334.40013	98.23301	2.97499	0.2193466	0.17839664	3.1252033	20	—	—
234817 2002 QT_{132}	14.8	X	130.05336	305.07459	320.25213	14.09910	0.0809416	0.17570661	3.1570199	20	11 30.7	19.9
234818 2002 QL_{136}	16.5	X	253.77849	262.16187	54.17888	2.88620	0.0397691	0.20455236	2.8527676	20	4 5.2	20.4
234819 2002 RS_{17}	15.5	X	141.91703	28.78674	348.33661	12.41766	0.1683655	0.19214563	2.9742835	20	2 25.9	20.1
234820 2002 RV_{21}	15.8	X	232.68794	314.13506	0.93687	5.87599	0.1939443	0.19969391	2.8988528	20	2 29.5	20.7
234821 2002 RT_{34}	16.0	X	259.43041	177.31200	145.05183	5.70241	0.2037715	0.20469975	2.8513980	20	4 1.5	20.4
234822 2002 RC_{45}	15.6	X	71.35246	233.92601	134.67666	5.93696	0.1781524	0.18055824	3.1002104	20	—	—
234823 2002 RP_{58}	16.1	X	337.13743	117.59807	189.58706	8.91048	0.2636776	0.21493771	2.7601179	20	6 29.2	18.6
234824 2002 RV_{73}	15.5	X	13.40739	85.01786	338.99997	14.28935	0.2534082	0.17764586	3.1340024	20	—	—
234825 2002 RV_{79}	16.0	X	146.24459	196.26825	182.04948	4.33511	0.1656861	0.19276175	2.9679425	20	2 28.6	20.7
234826 2002 RM_{83}	15.2	X	131.38590	217.42535	174.62503	10.36584	0.1078509	0.19163856	2.9795278	20	2 24.0	19.6
234827 2002 RE_{87}	16.3	X	46.75129	106.30741	179.58050	26.37056	0.3278948	0.22337749	2.6901496	20	11 10.4	20.6
234828 2002 RG_{89}	15.6	X	33.51553	43.88524	157.94628	6.55992	0.0654835	0.20596223	2.8397340	20	5 19.3	19.3
234829 2002 RB_{98}	15.6	X	325.05002	134.36469	190.87544	13.18900	0.2191807	0.21279404	2.7786237	20	7 2.6	18.7
234830 2002 RB_{110}	15.2	X	41.17700	182.67092	213.30674	7.96517	0.1429526	0.17822454	3.1272148	20	—	—
234831 2002 RG_{120}	15.8	X	265.14902	188.33710	128.69261	12.03557	0.0730980	0.20499800	2.8486317	20	4 19.9	20.0
234832 2002 RF_{125}	15.4	X	95.34372	225.05887	164.11246	16.23134	0.0929758	0.18501090	3.0502669	20	1 8.7	19.8
234833 2002 RG_{132}	15.2	X	239.92475	20.08240	286.27908	10.86629	0.0198708	0.19631809	2.9319901	20	3 3.4	19.5
234834 2002 RV_{139}	15.2	X	50.69120	295.44479	123.09770	17.46600	0.2314801	0.18138859	3.0907419	20	—	—
234835 2002 RJ_{140}	15.6	X	296.32467	252.83099	75.65906	9.26244	0.1056286	0.21010650	2.8022684	20	6 5.0	19.1
234836 2002 RJ_{144}	15.8	X	64.96914	92.40829	349.06445	9.75420	0.1442465	0.18806001	3.0172068	20	2 10.3	19.6
234837 2002 RT_{144}	16.1	X	219.67978	98.06456	227.82655	1.07255	0.0984078	0.19737286	2.9215350	20	3 4.4	20.5
234838 2002 RL_{145}	15.8	X	237.17095	219.71816	122.47995	3.20282	0.0699004	0.20230300	2.8738747	20	4 15.6	20.0
234839 2002 RQ_{150}	15.4	X	204.82216	352.16611	321.52085	9.29897	0.0902398	0.19289770	2.9665478	20	2 5.9	19.9
234840 2002 RZ_{161}	15.8	X	177.49822	192.71972	165.26527	5.91158	0.0279498	0.19591770	2.9359834	20	2 27.4	20.0
234841 2002 RM_{174}	15.7	X	49.69088	217.60573	220.71023	4.88963	0.1813425	0.18556318	3.0442116	20	1 12.9	19.0
234842 2002 RY_{177}	15.6	X	170.25932	343.47072	333.02294	7.85396	0.1104186	0.18803663	3.0174569	20	1 8.7	20.3
234843 2002 RT_{179}	16.5	X	54.81122	269.15223	126.61756	0.11731	0.1841599	0.17960628	3.1111554	20	—	—
234844 2002 RL_{181}	15.8	X	349.62700	56.61990	358.13115	26.37716	0.2341982	0.17210060	3.2009664	20	—	—
234845 2002 RJ_{182}	15.2	X	64.42200	93.07990	296.65759	15.69569	0.1565798	0.18102946	3.0948282	20	—	—
234846 2002 RB_{187}	15.5	X	87.26226	69.94402	322.22168	8.74294	0.2187864	0.18425411	3.0586135	20	1 22.0	19.4
234847 2002 RF_{187}	15.2	X	111.85506	289.60205	347.95803	24.95386	0.2224385	0.17466283	3.1695849	20	12 1.2	21.0
234848 2002 RN_{193}	15.7	X	100.84769	249.63529	116.39383	3.36986	0.1165243	0.18487661	3.0517438	20	—	—
234849 2002 RH_{194}	15.8	X	74.85952	269.72609	162.21176	5.74315	0.1529315	0.18880156	3.0093012	20	2 10.7	19.7
234850 2002 RG_{209}	16.4	X	266.18262	311.64337	4.87078	9.91932	0.0855982	0.20256121	2.8714319	20	4 11.6	20.4
234851 2002 RG_{215}	14.8	X	122.75766	0.69271	11.26183	17.68149	0.0548438	0.18962575	3.0005752	20	1 21.6	19.4
234852 2002 RD_{216}	15.5	X	20.19419	153.77840	123.39975	9.71673	0.1200140	0.21717873	2.7410978	20	8 17.5	18.7
234853 2002 RU_{220}	16.0	X	47.71371	237.47025	28.84425	5.08911	0.1371523	0.21987458	2.7186462	20	9 17.9	19.6
234854 2002 RJ_{228}	15.2	X	133.11552	283.75451	119.93608	12.72905	0.1041743	0.19530047	2.9421661	20	3 15.9	19.7
234855 2002 RZ_{228}	15.7	X	92.22867	24.44166	343.68250	8.30135	0.1900562	0.18223824	3.0811278	20	—	—
234856 2002 RQ_{232}	15.7	X	338.30604	161.41493	342.57428	13.12734	0.1140257	0.18556364	3.0442067	20	—	—
234857 2002 RR_{235}	16.1	X	290.96835	319.39460	296.88241	2.98735	0.0634245	0.19789707	2.9163735	20	3 1.6	20.3
234858 2002 RK_{238}	15.4	X	33.06232	227.71264	356.54337	11.25201	0.1250611	0.21038757	2.7997720	20	6 24.1	18.9
234859 2002 RH_{246}	16.3	X	58.54322	1.56108	59.46443	1.94945	0.1006488	0.18740965	3.0241831	20	—	—
234860 2002 RL_{253}	16.2	X	28.57272	197.97298	321.33632	4.82281	0.0121942	0.19710867	2.9241449	20	3 11.6	20.3
234861 2002 RP_{259}	16.3	X	82.48883	337.12303	100.60528	2.70090	0.1316623	0.19162369	2.9796820	20	2 26.9	20.2
234862 2002 RA_{262}	15.7	X	355.51869	113.96831	326.65364	8.11181	0.2231085	0.17618567	3.1512945	20	—	—
234863 2002 RD_{262}	16.3	X	207.34775	169.44128	200.03298	9.13957	0.0384135	0.20129127	2.8834964	20	4 16.7	20.4
234864 2002 RN_{267}	16.6	X	22.04960	91.72318	174.45934	3.99885	0.2885173	0.21641149	2.7475726	20	8 29.0	19.1
234865 2002 RK_{268}	16.5	X	248.34234	230.53039	135.54810	0.91916	0.0898568	0.20879528	2.8139882	20	5 25.4	20.5
234866 2002 RQ_{270}	16.7	X	209.89095	101.47976	261.76991	1.28918	0.0265997	0.20314385	2.8659390	20	4 11.3	20.6
234867 2002 SS_{23}	15.1	X	145.83700	220.50446	171.76804	9.36930	0.0503781	0.19293080	2.9662085	20	3 5.9	19.3
234868 2002 SD_{25}	14.9	X	81.34463	358.35876	17.78318	22.06313	0.0461016	0.18116197	3.0933189	20	—	—
234869 2002 SC_{27}	15.3	X	70.20221	245.05283	165.03865	10.03617	0.0727484	0.18293937	3.0732502	20	—	—
234870 2002 SD_{27}	15.6	X	116.49918	226.23264	157.08341	7.17329	0.1388303	0.18664989	3.0323842	20	2 2.1	19.9
234871 2002 SK_{28}	15.0	X	184.99671	241.60398	64.63229	12.84794	0.1281812	0.18510714	3.0492095	20	1 11.5	20.0
234872 2002 SO_{29}	15.6	X	236.00964	301.69912	23.69464	8.78098	0.0884430	0.19774766	2.9178423	20	3 23.7	19.9
234873 2002 SJ_{48}	15.6	X	168.37196	333.66165	27.94078	11.73861	0.1397266	0.19287249	2.9668063	20	3 4.3	20.4
234874 2002 SW_{60}	15.5	X	66.28075	290.36400	153.89241	9.58251	0.0254506	0.19005988	2.9960042	20	1 29.2	19.7
234875 2002 SB_{61}	15.7	X	71.10832	249.61473	146.84422	8.78537	0.1453554	0.18270257	3.0759052	20	—	—
234876 2002 SZ_{64}	16.5	X	333.48122	266.04208	119.88539	6.60205	0.0663249	0.22407515	2.6845629	20	10 30.2	19.8
234877 2002 TT	15.4	X	43.40282	235.07920	170.25426	12.59955	0.1736292	0.17887142	3.1196707	20	—	—
234878 2002 TF_{30}	15.1	X	77.28888	197.76854	211.79575	11.15565	0.1540712	0.18254361	3.0776906	20	1 16.6	19.2
234879 2002 TG_{43}	15.4	X	98.67138	279.87824	153.94676	10.60156	0.0789122	0.19318855	2.9635696	20	3 5.9	19.4
234880 2002 TK_{43}	15.2	X	113.35521	147.46133	220.54423	10.82085	0.0998482	0.18243162	3.0789501	20	1 5.8	19.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
234881 2002 TS_{50}	14.9	X	216.55790	224.07609	225.27309	15.63646	0.2032452	0.14970188	3.5127820	20	7 18.6	20.9
234882 2002 TD_{56}	15.4	X	134.90351	27.94621	355.68959	9.53750	0.0941826	0.18978381	2.9989090	20	2 20.0	19.9
234883 2002 TW_{61}	15.1	X	165.64507	85.63437	258.81680	8.30842	0.0182426	0.18927152	3.0043178	20	1 26.5	19.5
234884 2002 TR_{74}	15.7	X	196.54773	322.15728	39.58437	9.80987	0.1249257	0.19766212	2.9186841	20	3 28.1	20.4
234885 2002 TC_{81}	15.3	X	164.10816	299.24749	58.94353	11.04825	0.1193760	0.19000386	2.9965930	20	2 24.7	20.1
234886 2002 TL_{88}	15.5	X	53.74540	72.47785	339.38675	7.95983	0.1834703	0.17992415	3.1074900	20	—	—
234887 2002 TB_{100}	15.2	X	9.22053	111.44342	314.50416	15.37168	0.2356939	0.17714664	3.1398876	20	—	—
234888 2002 TW_{106}	15.5	X	149.47702	316.82814	22.88831	10.08354	0.0837984	0.18559765	3.0438348	20	1 13.7	20.2
234889 2002 TB_{113}	15.3	X	271.83015	24.86418	24.37845	5.58106	0.1026208	0.15740894	3.3971636	20	8 16.0	20.1
234890 2002 TP_{113}	14.9	X	175.92040	39.96253	309.17577	10.55827	0.0828197	0.19199239	2.9758660	20	2 16.5	19.5
234891 2002 TM_{116}	14.8	X	340.74390	117.29666	354.87238	23.24590	0.2312322	0.17501273	3.1653589	20	—	—
234892 2002 TC_{128}	15.1	X	227.17055	22.28235	277.35524	8.61096	0.0693266	0.19313563	2.9641109	20	2 9.3	19.7
234893 2002 TH_{135}	15.5	X	84.56201	18.18322	342.72226	10.56048	0.1222729	0.17913774	3.1165780	20	—	—
234894 2002 TA_{137}	15.1	X	151.88427	15.97009	339.14276	9.45161	0.1294188	0.18804383	3.0173799	20	2 6.8	19.8
234895 2002 TJ_{146}	15.3	X	97.63201	157.07696	219.41210	8.84684	0.1002473	0.18347370	3.0672805	20	—	—
234896 2002 TM_{160}	15.3	X	117.80404	241.92050	152.26196	15.86266	0.1117858	0.18695517	3.0290822	20	2 13.3	19.6
234897 2002 TH_{171}	15.1	X	327.00197	97.96002	339.91375	17.70247	0.1402129	0.17015024	3.2253809	20	12 7.4	19.3
234898 2002 TK_{177}	14.8	X	36.62265	291.32594	117.14865	17.36362	0.2147911	0.17456933	3.1707165	20	—	—
234899 2002 TO_{185}	15.4	X	48.30613	85.92741	326.89332	8.54381	0.1310819	0.18066609	3.0989765	20	—	—
234900 2002 TM_{189}	15.7	X	24.32341	91.80679	315.56302	8.59811	0.2348058	0.17593596	3.1542757	20	—	—
234901 2002 TG_{194}	15.6	X	10.76615	54.03647	18.53939	7.34182	0.2194060	0.17539054	3.1608115	20	—	—
234902 2002 TH_{219}	15.2	X	116.21451	157.96130	236.45645	10.73395	0.1361235	0.18829551	3.0146906	20	2 10.9	19.9
234903 2002 TV_{228}	15.7	X	76.02877	333.83955	82.74888	4.63500	0.1129261	0.18368784	3.0648962	20	1 21.1	19.7
234904 2002 TL_{231}	15.5	X	72.74124	333.25148	66.59441	10.15220	0.0728527	0.18446969	3.0562300	20	—	—
234905 2002 TG_{244}	16.2	X	259.73063	269.88477	4.07008	2.34648	0.0356426	0.19140048	2.9819981	20	2 21.0	20.3
234906 2002 TA_{246}	15.4	X	183.82261	170.83851	168.60232	10.07499	0.0876124	0.19025119	2.9939954	20	2 13.9	20.0
234907 2002 TZ_{250}	14.8	X	102.32748	322.18309	44.97345	20.67951	0.0840835	0.17884055	3.1200296	20	—	—
234908 2002 TN_{252}	15.4	X	171.09155	167.91875	173.97599	13.01356	0.0834445	0.18975977	2.9991622	20	2 3.1	20.1
234909 2002 TZ_{265}	15.3	X	111.53512	307.29711	55.37368	19.31259	0.3669514	0.18183280	3.0857061	20	2 7.3	20.6
234910 2002 TW_{271}	15.3	X	94.21918	208.62477	217.93007	9.06434	0.0823427	0.18854617	3.0120181	20	2 17.2	19.6
234911 2002 TJ_{276}	15.3	X	154.73515	119.59980	219.17734	10.84225	0.1405353	0.18660704	3.0328484	20	1 18.2	20.2
234912 2002 TZ_{277}	15.2	X	140.47024	74.07008	270.54454	9.35926	0.1051718	0.18481071	3.0524692	20	1 9.6	19.8
234913 2002 TB_{283}	15.3	X	114.17545	91.38870	266.58459	9.66809	0.2161552	0.18220913	3.0814559	20	1 10.8	19.9
234914 2002 TZ_{299}	15.8	X	49.36829	268.18927	164.40949	10.83863	0.1609634	0.18191170	3.0848138	20	1 4.4	19.5
234915 2002 TH_{319}	16.1	X	93.64690	102.22755	317.68239	2.79071	0.1255011	0.18983552	2.9983643	20	2 17.5	20.2
234916 2002 TE_{321}	16.2	X	185.01861	8.46003	335.22319	2.37630	0.1056781	0.19413623	2.9539172	20	2 21.6	20.6
234917 2002 TK_{324}	15.7	X	329.63959	83.97643	14.92912	1.47143	0.1036615	0.17589808	3.1547284	20	—	—
234918 2002 TG_{331}	16.0	X	176.68214	324.45887	168.83377	5.68572	0.0071016	0.21370054	2.7707604	20	8 19.0	19.7
234919 2002 TJ_{333}	16.2	X	70.23859	214.18674	33.39429	8.45620	0.2239007	0.21875972	2.7278750	20	10 3.9	20.2
234920 2002 TK_{350}	15.4	X	337.91645	187.70981	196.70645	16.26939	0.0838119	0.16959697	3.2323918	20	10 20.9	19.4
234921 2002 TZ_{353}	15.4	X	167.87471	52.00234	190.20592	15.52287	0.1833359	0.17888951	3.1194603	20	12 10.5	20.8
234922 2002 TX_{364}	15.8	X	151.24169	239.89112	176.65968	12.05938	0.0063822	0.19718800	2.9233607	20	4 9.0	19.9
234923 2002 TR_{382}	15.6	X	175.55109	267.10840	82.49426	9.76560	0.1150412	0.18977186	2.9990348	20	2 24.0	20.4
234924 2002 TX_{382}	15.3	X	106.66971	187.47671	218.93482	10.29854	0.0095218	0.18592989	3.0402077	20	1 29.3	19.8
234925 2002 UK_{2}	15.2	X	41.89234	62.84270	321.63507	25.19307	0.2911757	0.17405454	3.1769654	20	—	—
234926 2002 UK_{5}	15.5	X	26.23990	16.57688	43.90824	18.15729	0.2136906	0.17649234	3.1476430	20	—	—
234927 2002 UW_{9}	17.5	X	161.12952	9.43675	64.10650	4.62886	0.1429242	0.30959373	2.1640865	20	5 16.7	20.5
234928 2002 UB_{11}	17.5	X	183.21098	54.77286	26.18405	5.07155	0.0683007	0.31486956	2.1398447	20	6 20.4	20.2
234929 2002 UP_{14}	15.6	X	242.52338	274.73785	55.52834	7.31525	0.2087802	0.19996764	2.8962068	20	3 27.7	20.4
234930 2002 UW_{21}	16.2	X	44.19777	115.30988	226.83882	3.83094	0.2910583	0.22510915	2.6763359	20	—	—
234931 2002 UZ_{24}	15.8	X	106.45296	36.28419	36.74663	12.91006	0.0931162	0.18972428	2.9995362	20	3 21.4	20.2
234932 2002 UY_{26}	15.2	X	65.81244	0.29312	52.97452	19.33862	0.0957030	0.18089509	3.0963606	20	—	—
234933 2002 UL_{27}	14.7	X	223.12614	66.90323	233.74163	10.28284	0.1005672	0.18962800	3.0005514	20	2 4.4	19.5
234934 2002 UG_{28}	15.7	X	171.88333	175.96842	179.49718	8.24122	0.1678989	0.19051289	2.9912530	20	2 24.5	20.6
234935 2002 UW_{28}	15.4	X	149.78106	286.08387	75.62917	9.50387	0.1243687	0.18756974	3.0224621	20	2 13.6	20.2
234936 2002 UC_{35}	15.4	X	85.18209	234.23573	192.88442	13.66867	0.1310512	0.18467620	3.0539512	20	2 13.9	19.7
234937 2002 UW_{69}	15.3	X	275.55133	116.31264	148.68230	9.52472	0.0601539	0.19202468	2.9755324	20	2 25.4	19.5
234938 2002 VC_{10}	15.4	X	133.38634	30.53543	13.57625	10.41149	0.1333389	0.18928530	3.0041720	20	3 17.7	19.9
234939 2002 VM_{20}	15.3	X	155.96860	118.17398	249.87949	5.15230	0.1654337	0.18673193	3.0314959	20	2 24.3	20.2
234940 2002 VT_{28}	15.5	X	64.51941	291.15662	73.16999	2.48957	0.2639842	0.17518564	3.1632757	20	—	—
234941 2002 VO_{29}	15.8	X	115.35806	70.61263	296.54964	1.89544	0.2575665	0.18254310	3.0776964	20	1 28.5	20.5
234942 2002 VC_{38}	15.3	X	146.57973	273.76086	83.65772	10.06118	0.1002460	0.18616801	3.0376146	20	2 2.1	19.9
234943 2002 VT_{38}	15.1	X	66.47101	328.51771	69.13873	17.98573	0.2071533	0.17833450	3.1259292	20	—	—
234944 2002 VB_{42}	15.2	X	138.49237	246.06708	88.59692	9.34369	0.2116343	0.18224788	3.0810191	20	1 8.2	20.1
234945 2002 VY_{50}	15.7	X	156.79282	178.79199	184.58699	7.47445	0.1985911	0.18947863	3.0021282	20	2 22.4	20.6
234946 2002 VE_{56}	15.4	X	115.39101	300.14025	76.95080	11.40430	0.1177642	0.18309250	3.0715365	20	1 24.7	19.9
234947 2002 VV_{66}	15.1	X	32.19708	34.97212	49.88008	10.90386	0.0577478	0.17863698	3.1223995	20	—	—
234948 2002 VF_{68}	15.8	X	157.12249	168.46678	189.92124	4.13169	0.1963374	0.18842028	3.0133595	20	2 17.3	20.8
234949 2002 VL_{68}	15.1	X	22.81863	45.91720	22.55072	26.38672	0.1671547	0.17516312	3.1635468	20	—	—
234950 2002 VH_{69}	15.4	X	97.24252	339.71897	40.81700	17.01932	0.1567990	0.18025117	3.1037304	20	1 13.7	20.0
234951 2002 VL_{86}	15.1	X	104.16882	124.57012	241.12523	5.38008	0.1433496	0.18076264	3.0978729	20	—	—
234952 2002 VQ_{95}	15.3	X	158.08213	9.54082	338.80078	8.92290	0.1463635	0.18621452	3.0371089	20	2 6.1	20.1
234953 2002 VB_{97}	15.2	X	64.00999	6.91268	26.65017	17.50762	0.1637351	0.17678744	3.1441392	20	—	—
234954 2002 VL_{124}	15.6	X	129.65220	192.19056	184.87929	9.45062	0.0871244	0.18430712	3.0580269	20	2 1.9	20.1
234955 2002 VF_{140}	15.2	X	42.63121	167.32098	272.88978	8.97888	0.0228363	0.18031858	3.1029568	20	—	—
234956 2002 VL_{140}	15.8	X	176.32406	11.98628	347.49629	8.76130	0.1324857	0.19043540	2.9920644	20	3 4.4	20.5
234957 2002 VK_{147}	16.0	X	54.58362	80.70725	353.40828	2.29091	0.0524014	0.18232060	3.0801997	20	1 6.6	20.0
234958 2002 WD_{4}	15.5	X	359.10882	48.56601	62.51325	5.91383	0.1695333	0.17348534	3.1839106	20	—	—
234959 2002 WC_{8}	15.5	X	70.78455	250.08972	116.16488	2.13353	0.1610838	0.17352425	3.1834346	20	—	—
234960 2002 WS_{13}	17.0	X	244.02456	193.84786	163.53004	4.04179	0.1570796	0.31093642	2.1578520	20	4 29.9	20.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
234961 2002 WO_{14}	15.3	X	130.52106	213.19794	163.00117	8.19777	0.2362196	0.18484616	3.0520789	20	2 18.9	20.2
234962 2002 WG_{18}	15.1	X	45.43235	239.30418	158.37447	9.49315	0.0774207	0.17420133	3.1751804	20	—	—
234963 2002 WU_{29}	16.1	X	62.17213	301.03560	106.12650	3.93471	0.1945166	0.17863161	3.1224621	20	—	—
234964 2002 XH_{5}	15.9	X	299.50686	66.44671	77.28128	24.05057	0.2868007	0.27468038	2.3437842	20	—	—
234965 2002 XQ_{5}	15.4	X	115.91546	188.94278	175.62745	9.31670	0.1800451	0.18131362	3.0915938	20	1 15.7	20.0
234966 2002 XM_{7}	15.6	X	12.61176	60.54003	325.96839	7.30408	0.1903523	0.16916456	3.2378977	20	12 25.2	19.7
234967 2002 XQ_{15}	15.2	X	173.39617	348.01542	338.12042	10.16120	0.2101610	0.18625770	3.0366394	20	1 28.8	20.4
234968 2002 XR_{65}	16.0	X	325.59015	172.22576	318.81947	19.59146	0.1494225	0.28310939	2.2970293	20	—	—
234969 2002 XV_{76}	15.4	X	34.18168	71.23046	348.06109	4.27155	0.1428197	0.17305310	3.1892101	20	—	—
234970 2002 XG_{89}	15.1	X	31.63360	175.69807	236.44644	11.26898	0.0982360	0.17175459	3.2052641	20	—	—
234971 2002 XS_{105}	17.3	X	82.13694	60.12977	39.83836	4.45926	0.1642974	0.29844118	2.2176698	20	3 20.5	19.5
234972 2002 YH_{2}	16.0	X	291.17815	124.39640	19.07752	21.96239	0.2063376	0.27553012	2.3389629	20	—	—
234973 2002 YA_{5}	16.0	X	339.50087	3.55260	54.99268	24.74577	0.2637475	0.27386357	2.3484422	20	—	—
234974 2002 YD_{5}	15.7	X	59.43570	358.40783	27.67814	24.50759	0.1995583	0.28029130	2.3124001	20	—	—
234975 2002 YG_{14}	16.9	X	341.48460	202.32873	152.36019	2.06308	0.1741141	0.32300946	2.1037424	20	11 1.7	18.1
234976 2002 YW_{24}	16.8	X	125.93366	154.51626	290.78681	2.98167	0.1219498	0.30099764	2.2050951	20	4 19.6	19.7
234977 2002 YX_{25}	17.3	X	138.48983	332.15115	103.18644	5.74942	0.0908836	0.30136277	2.2033136	20	4 21.9	20.2
234978 2003 AL_{3}	15.0	X	313.63222	303.99699	74.58023	34.66400	0.2058232	0.21622564	2.7491468	20	9 28.5	18.8
234979 2003 AR_{14}	16.4	X	273.40964	280.42496	238.95592	7.39981	0.1764223	0.27322092	2.3521233	20	—	—
234980 2003 AO_{16}	15.2	X	97.60283	331.16584	109.30376	18.02153	0.2611181	0.18152730	3.0891672	20	4 15.7	20.2
234981 2003 AB_{33}	16.9	X	83.83174	10.56926	64.37405	3.79286	0.1490369	0.29227269	2.2487640	20	2 13.1	19.0
234982 2003 AE_{33}	17.2	X	284.63388	90.40228	48.24668	3.14157	0.1026370	0.27490404	2.3425128	20	—	—
234983 2003 AJ_{33}	17.1	X	103.17983	92.95306	312.39230	3.49250	0.2153493	0.29195695	2.2503851	20	2 10.4	19.6
234984 2003 AM_{52}	14.7	X	306.88724	345.61570	99.55454	17.75018	0.0662345	0.15756323	3.3949455	20	11 22.3	19.4
234985 2003 AS_{59}	16.1	X	297.96405	7.51452	124.86266	24.47961	0.2032019	0.27323797	2.3520254	20	—	—
234986 2003 AY_{63}	15.8	X	317.56135	113.99273	324.49844	23.42330	0.2482302	0.27267515	2.3552608	20	—	—
234987 2003 AJ_{82}	15.9	X	69.88842	13.98696	78.97645	24.69893	0.1983193	0.28967977	2.2621632	20	3 8.0	18.8
234988 2003 AE_{94}	16.9	X	302.93310	191.93345	6.39068	7.50810	0.1551183	0.28371608	2.2937535	20	—	—
234989 2003 BA_{6}	17.7	X	24.91906	353.31420	138.84341	0.85770	0.1593575	0.28902127	2.2655980	20	1 11.3	19.5
234990 2003 BX_{9}	16.8	X	92.77687	203.21266	226.51237	4.59805	0.1325138	0.29226570	2.2487999	20	2 13.3	19.2
234991 2003 BW_{15}	16.6	X	349.16486	110.09660	12.31277	6.80757	0.1239143	0.27992688	2.3144065	20	—	—
234992 2003 BE_{17}	16.3	X	254.38201	247.52957	333.13059	22.33247	0.1334248	0.27729032	2.3290541	20	—	—
234993 2003 BY_{41}	14.9	X	48.97412	342.23520	151.99686	22.89664	0.0097455	0.17897191	3.1185027	20	3 11.4	19.3
234994 2003 BX_{44}	16.5	X	297.49123	15.10001	104.09087	3.58043	0.0750818	0.27250443	2.3562444	20	—	—
234995 2003 BP_{60}	15.3	X	190.25002	258.69633	143.10860	14.50211	0.0991230	0.18774679	3.0205616	20	5 11.6	20.3
234996 2003 BM_{61}	15.3	X	67.12203	128.66212	340.66472	27.15180	0.2150168	0.17734671	3.1375257	20	3 19.4	19.5
234997 2003 BR_{61}	16.3	X	339.39459	43.33963	149.29041	22.52059	0.1237961	0.28628375	2.2800179	20	1 22.3	19.0
234998 2003 BQ_{67}	16.9	X	117.14931	116.63248	307.28345	5.90270	0.1154261	0.29436378	2.2381016	20	3 7.9	19.7
234999 2003 BB_{74}	17.4	X	14.07080	50.94721	74.55179	6.97780	0.1275182	0.28574124	2.2829029	20	—	—
235000 2003 BR_{82}	17.1	X	48.31467	55.78914	53.42140	5.04603	0.1779864	0.28994713	2.2607724	20	1 29.9	18.7
235001 2003 BT_{83}	16.8	X	44.24793	78.98523	27.19106	6.19970	0.0832342	0.28685927	2.2769673	20	1 13.6	19.1
235002 2003 BK_{87}	16.9	X	349.58685	36.56640	149.04380	9.16933	0.1635386	0.28724073	2.2749509	20	1 22.3	19.0
235003 2003 CL_{7}	14.8	X	119.01016	279.01951	143.35072	18.59876	0.2472548	0.18006005	3.1059262	20	4 9.9	20.0
235004 2003 CJ_{12}	16.8	X	259.80596	164.82829	300.01054	4.19700	0.1118771	0.26469246	2.4023798	20	10 22.5	19.6
235005 2003 CW_{17}	17.4	X	9.69467	81.70807	155.85671	5.50511	0.1418517	0.29909860	2.2144190	20	6 2.8	19.1
235006 2003 CX_{25}	17.2	X	32.96681	318.02546	160.04896	6.88724	0.1048875	0.28636257	2.2795995	20	1 8.7	19.4
235007 2003 DD_{8}	16.9	X	256.21170	287.22239	341.46987	7.51338	0.0965291	0.28496773	2.2870321	20	1 24.2	20.0
235008 2003 DQ_{9}	16.7	X	303.30223	61.01817	161.85085	7.41569	0.2150201	0.28179080	2.3041894	20	1 2.1	19.9
235009 2003 DB_{12}	17.0	X	234.92670	122.18735	155.85819	8.09345	0.1001628	0.28305512	2.2973229	20	1 10.9	20.5
235010 2003 DV_{13}	16.7	X	113.14742	82.94174	12.29908	5.91775	0.0702094	0.29536211	2.2330556	20	4 10.6	19.4
235011 2003 DR_{21}	16.7	X	250.74995	85.70612	166.11857	7.12780	0.2487134	0.27832916	2.3232551	20	—	—
235012 2003 EZ_{2}	17.0	X	218.27968	168.51031	6.23424	4.97304	0.1683642	0.26624568	2.3930274	20	11 22.3	20.3
235013 2003 EM_{4}	16.6	X	359.98014	202.53436	322.52564	6.19650	0.1002126	0.28537740	2.2848428	20	1 21.7	19.0
235014 2003 ES_{4}	16.8	X	237.48410	275.83076	4.86568	6.74414	0.1127507	0.28247427	2.3004711	20	1 19.1	20.2
235015 2003 EC_{11}	16.4	X	327.40112	29.21814	188.36376	6.64987	0.1431110	0.28611185	2.2809310	20	2 3.7	19.0
235016 2003 EC_{18}	16.2	X	241.95432	285.51447	356.69198	7.30265	0.2281222	0.28248047	2.3004375	20	1 20.9	20.2
235017 2003 EY_{19}	17.5	X	346.40865	273.44245	248.48410	1.54515	0.1633684	0.28331759	2.2959038	20	—	—
235018 2003 EE_{26}	17.1	X	339.41322	312.58129	211.54447	4.40867	0.1347793	0.28181842	2.3040389	20	—	—
235019 2003 EF_{26}	17.3	X	350.48064	256.36256	276.67221	2.36552	0.1296090	0.28470430	2.2884427	20	1 12.2	19.3
235020 2003 EF_{31}	17.1	X	293.31631	108.35492	152.29885	4.11585	0.1448606	0.28755029	2.2733179	20	2 17.7	20.0
235021 2003 EM_{32}	17.0	X	240.23782	310.88684	311.61933	2.72695	0.1396520	0.27960735	2.3161694	20	—	—
235022 2003 EM_{44}	16.9	X	21.39471	236.24373	272.99818	5.42907	0.0598701	0.28759417	2.2730867	20	2 3.8	19.2
235023 2003 EG_{49}	17.7	X	330.49706	251.60275	293.10856	2.52299	0.1480263	0.28233384	2.3012339	20	—	—
235024 2003 EM_{49}	17.0	X	283.23318	31.67001	182.98295	6.99880	0.1951388	0.27772653	2.3266147	20	—	—
235025 2003 EJ_{57}	16.1	X	227.59662	148.16517	115.72812	12.76765	0.1714873	0.27467883	2.3437930	20	—	—
235026 2003 FC_{2}	17.1	X	35.08084	45.12235	45.92865	6.79704	0.1376314	0.28203461	2.3028613	20	—	—
235027 Pommard	17.4	X	37.10276	320.89526	139.18757	0.22702	0.1800497	0.28263378	2.2996055	20	—	—
235028 2003 FA_{6}	16.9	X	230.59246	222.93961	346.99383	4.16459	0.1447511	0.26845483	2.3798810	20	—	—
235029 2003 FC_{6}	17.0	X	298.22081	232.60097	1.03366	7.39905	0.0676776	0.28309512	2.2971065	20	2 2.2	19.9
235030 2003 FO_{6}	16.8	X	229.16451	155.88477	75.99852	8.04876	0.0699646	0.27249533	2.3562969	20	—	—
235031 2003 FW_{11}	16.6	X	175.18556	298.95026	2.68280	6.96395	0.1138366	0.27355775	2.3501921	20	—	—
235032 2003 FH_{14}	17.1	X	273.87239	53.85062	200.90407	4.00888	0.1415998	0.28264193	2.2995613	20	1 18.9	20.5
235033 2003 FT_{15}	16.6	X	269.77709	207.58431	6.89332	6.82325	0.0948753	0.27612360	2.3356102	20	—	—
235034 2003 FX_{17}	17.5	X	339.25988	283.47204	220.60847	1.23028	0.1893221	0.27963962	2.3159912	20	—	—
235035 2003 FU_{19}	16.7	X	20.22490	352.18125	162.43269	5.03114	0.1474246	0.28628947	2.2799875	20	2 6.7	18.5
235036 2003 FH_{28}	16.8	X	272.18217	103.18261	84.21830	7.79784	0.0796740	0.27201828	2.3590510	20	—	—
235037 2003 FD_{36}	17.4	X	305.27654	20.79660	188.58272	2.84910	0.0987322	0.28105236	2.3082237	20	1 2.7	20.2
235038 2003 FS_{36}	17.3	X	224.95975	109.04378	182.68851	2.01676	0.2014288	0.27833026	2.3232490	20	1 17.4	21.1
235039 2003 FN_{40}	17.0	X	257.23113	154.71448	61.06709	4.69842	0.1115747	0.27610752	2.3357009	20	—	—
235040 2003 FV_{47}	16.5	X	201.51695	312.39004	359.32995	4.59731	0.1750267	0.27808740	2.3246015	20	1 23.4	20.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
235041 2003 FA_{55}	16.1	X	340.15936	77.94570	37.38939	21.45444	0.3074500	0.27586211	2.3370859	20	—	—
235042 2003 FS_{56}	17.7	X	27.34250	331.11977	176.44794	1.69863	0.0901834	0.28736823	2.2742780	20	2 12.0	19.6
235043 2003 FH_{57}	17.2	X	283.54798	200.83921	28.06622	5.00932	0.1117407	0.28141633	2.3062330	20	1 1.1	20.5
235044 2003 FK_{59}	16.1	X	311.36518	245.30522	15.04478	22.48184	0.1924042	0.28842806	2.2687033	20	3 13.8	18.9
235045 2003 FU_{62}	16.5	X	282.90806	100.46135	112.86326	5.15072	0.0849074	0.27836513	2.3230550	20	—	—
235046 2003 FG_{67}	16.8	X	353.12836	49.93878	114.47205	4.16720	0.0738683	0.28233257	2.3012408	20	1 12.7	19.0
235047 2003 FS_{67}	17.1	X	201.42505	153.67783	102.46201	3.60586	0.1629745	0.26949652	2.3737444	20	—	—
235048 2003 FF_{69}	17.0	X	326.39977	0.71486	157.07494	7.51070	0.0932781	0.27711881	2.3300149	20	—	—
235049 2003 FU_{69}	16.8	X	248.73743	169.93408	74.38104	3.56102	0.1333784	0.27570470	2.3379754	20	—	—
235050 2003 FA_{70}	17.3	X	224.43405	147.13421	76.76445	5.90669	0.0475821	0.27046648	2.3680657	20	—	—
235051 2003 FW_{70}	16.9	X	253.47205	117.69626	106.68849	3.14704	0.1380469	0.27429436	2.3459827	20	—	—
235052 2003 FJ_{72}	16.7	X	219.32151	149.62973	68.48878	7.95305	0.0545917	0.26800903	2.3825193	20	—	—
235053 2003 FM_{72}	16.0	X	202.36546	213.84850	64.08043	10.48545	0.2133644	0.27168905	2.3609563	20	—	—
235054 2003 FV_{74}	16.6	X	305.84756	77.48826	92.34936	6.73220	0.1439814	0.27480963	2.3430493	20	—	—
235055 2003 FF_{75}	17.3	X	247.91825	288.28327	327.99384	5.84259	0.2395760	0.27574330	2.3377572	20	—	—
235056 2003 FU_{75}	16.4	X	281.96988	305.73278	298.60304	6.75510	0.1347292	0.28306642	2.2972618	20	1 16.2	19.5
235057 2003 FU_{77}	16.4	X	0.13770	4.98091	158.50869	5.53818	0.0947956	0.28353588	2.2947253	20	1 18.9	18.8
235058 2003 FX_{98}	16.1	X	164.85672	279.76105	22.30721	9.21159	0.2497801	0.27124392	2.3635386	20	—	—
235059 2003 FF_{99}	17.1	X	210.85587	177.33269	79.23163	2.31681	0.1588053	0.27180075	2.3603095	20	—	—
235060 2003 FL_{101}	16.9	X	300.07495	318.85179	251.40881	4.69201	0.1524819	0.28121454	2.3073361	20	—	—
235061 2003 FL_{104}	16.6	X	261.56786	277.86061	349.45488	5.05920	0.1946091	0.27933163	2.3176933	20	1 20.8	20.3
235062 2003 FX_{108}	16.4	X	256.99423	122.17440	95.92337	6.92682	0.0890825	0.27529986	2.3402669	20	—	—
235063 2003 FR_{116}	16.7	X	246.99125	210.46006	16.98981	6.26522	0.2065887	0.27224858	2.3577204	20	—	—
235064 2003 FJ_{118}	16.9	X	326.71543	161.24223	11.13170	5.88369	0.0997218	0.27855477	2.3220005	20	—	—
235065 2003 FX_{118}	16.9	X	294.01252	213.83550	41.34348	2.63318	0.1297554	0.28429554	2.2906357	20	2 15.2	19.7
235066 2003 FU_{130}	17.1	X	311.92004	54.75802	92.67976	5.34355	0.1707541	0.27333800	2.3514516	20	—	—
235067 2003 FN_{131}	17.2	X	270.42698	89.44981	164.49982	3.01599	0.1552003	0.28039188	2.3118470	20	1 13.9	20.5
235068 2003 GF_{1}	17.0	X	244.20735	128.07376	144.20760	2.11233	0.1951233	0.27872638	2.3210474	20	1 10.3	20.8
235069 2003 GF_{12}	17.6	X	280.38886	192.72964	13.16577	4.70375	0.1739446	0.27670317	2.3323477	20	—	—
235070 2003 GU_{13}	17.4	X	321.20579	317.30905	179.42615	2.27785	0.1297356	0.27309940	2.3528210	20	—	—
235071 2003 GK_{14}	16.6	X	313.15785	79.38695	101.89432	5.88422	0.0451870	0.27929571	2.3178921	20	—	—
235072 2003 GJ_{16}	17.3	X	292.05817	62.87109	101.77700	6.39245	0.1277017	0.27372279	2.3492474	20	—	—
235073 2003 GS_{23}	17.0	X	251.89371	216.26241	5.13477	6.07639	0.1724820	0.27236896	2.3570256	20	—	—
235074 2003 GU_{28}	16.6	X	231.63784	139.14145	138.12081	10.31223	0.2733956	0.27335203	2.3513711	20	1 5.1	20.8
235075 2003 GF_{29}	16.4	X	286.67566	104.21129	104.49597	6.76550	0.0632197	0.27572757	2.3378461	20	—	—
235076 2003 GJ_{32}	17.1	X	239.71735	112.15371	140.04709	3.11755	0.1494481	0.27521197	2.3407651	20	—	—
235077 2003 GG_{35}	16.6	X	204.68267	237.52308	18.41594	4.28641	0.1671022	0.26996088	2.3710215	20	—	—
235078 2003 GG_{47}	17.2	X	306.16232	62.88649	83.15134	4.90536	0.1491077	0.27241942	2.3567346	20	—	—
235079 2003 GT_{50}	16.8	X	206.63960	233.04490	46.32556	3.47545	0.2083290	0.27295317	2.3536612	20	—	—
235080 2003 GS_{51}	17.5	X	30.35637	104.42915	40.17996	3.03884	0.1093287	0.28610551	2.2809647	20	2 15.4	19.5
235081 2003 GJ_{52}	16.8	X	175.33523	270.92593	39.17547	3.60911	0.2195968	0.27136794	2.3628184	20	—	—
235082 2003 GC_{56}	16.9	X	270.81804	118.48990	109.20484	6.48272	0.1032278	0.27434020	2.3457213	20	—	—
235083 2003 HM_{3}	16.7	X	281.60245	179.98201	46.66507	4.94620	0.0956744	0.27788621	2.3257233	20	—	—
235084 2003 HL_{5}	16.7	X	204.89382	197.48084	69.80343	4.99972	0.0877399	0.27046191	2.3680924	20	—	—
235085 2003 HM_{11}	16.5	X	203.15479	170.38359	111.08945	6.29632	0.1052185	0.27193550	2.3595297	20	—	—
235086 2003 HW_{11}	17.4	X	232.48760	154.26688	150.38772	7.40150	0.4663574	0.27337760	2.3512245	20	2 2.1	22.2
235087 2003 HX_{13}	16.9	X	215.44969	59.46990	162.41684	6.31254	0.0991482	0.26544210	2.3978546	20	—	—
235088 2003 HD_{22}	16.1	X	34.07252	184.05293	59.26359	15.96260	0.1601220	0.23860790	2.5744206	20	8 5.0	19.3
235089 2003 HG_{29}	17.3	X	280.38846	251.73100	325.94017	2.15476	0.1878659	0.27580769	2.3373933	20	—	—
235090 2003 HG_{39}	16.0	X	121.50135	124.08734	45.75887	8.21986	0.0392596	0.24211744	2.5494823	20	8 4.8	19.6
235091 2003 HC_{46}	17.1	X	247.02471	191.23810	78.76501	3.03236	0.2073932	0.27700965	2.3306271	20	1 10.0	20.9
235092 2003 HA_{58}	16.6	X	251.64754	162.44694	97.26794	11.23237	0.2021735	0.27438660	2.3454568	20	1 1.8	20.5
235093 2003 JA_{7}	16.5	X	216.50515	213.18290	71.93362	8.23906	0.1275318	0.27281393	2.3544620	20	1 3.3	20.0
235094 2003 JU_{7}	16.8	X	222.23876	160.72680	95.92289	7.00231	0.0994095	0.27125686	2.3634635	20	—	—
235095 2003 JB_{8}	16.8	X	214.24750	142.23422	131.16701	4.77501	0.1856137	0.27062790	2.3671240	20	—	—
235096 2003 JT_{11}	16.7	X	314.65537	58.92435	140.96101	6.43949	0.0646142	0.27874753	2.3209299	20	1 7.8	19.6
235097 2003 KO_{5}	16.3	X	292.93924	242.23728	117.06060	5.58913	0.2830258	0.23600029	2.5933494	20	6 14.2	19.4
235098 2003 KM_{7}	16.6	X	243.99588	107.14173	94.13150	7.39924	0.1234288	0.26549576	2.3975315	20	—	—
235099 2003 KH_{18}	16.9	X	224.08474	12.49137	250.58516	0.45626	0.1646846	0.27003389	2.3705941	20	—	—
235100 2003 KH_{35}	17.0	X	169.94772	199.54456	84.41058	2.70069	0.1273251	0.26553021	2.3973241	20	—	—
235101 2003 LK_{3}	17.4	X	216.86828	215.64240	67.94439	2.21708	0.1799918	0.27219927	2.3580051	20	1 2.1	21.0
235102 2003 LO_{9}	16.2	X	168.62752	12.11509	249.77902	9.50415	0.1340386	0.25606647	2.4560332	20	—	—
235103 2003 MQ_{1}	16.4	X	265.67643	95.28576	134.96848	22.93409	0.2123097	0.27172839	2.3607285	20	—	—
235104 2003 MH_{8}	15.4	X	311.52277	226.48847	163.35988	12.04160	0.1826016	0.23732849	2.5836646	20	9 23.1	17.7
235105 2003 NW_{4}	16.3	X	120.36318	238.74787	63.51275	5.62852	0.1954049	0.25421796	2.4679247	20	—	—
235106 2003 ON_{5}	17.1	X	83.82015	326.21092	324.16293	6.39979	0.2437264	0.24563817	2.5250626	20	12 10.4	21.3
235107 2003 OF_{14}	16.3	X	177.49483	132.57300	161.87984	23.44714	0.1935193	0.26478191	2.4018387	20	—	—
235108 2003 OO_{19}	15.6	X	255.94909	35.81395	321.99237	15.94516	0.1887088	0.22035175	2.7147200	20	5 4.5	20.1
235109 2003 OB_{24}	15.9	X	348.44639	336.72030	261.68367	9.23164	0.0731966	0.22229141	2.6989050	20	4 23.3	19.3
235110 2003 OG_{26}	16.5	X	32.56186	91.62142	221.37616	2.71076	0.1862978	0.23978181	2.5660112	20	11 7.7	19.5
235111 2003 OS_{27}	15.7	X	317.06925	227.05973	132.53204	13.70008	0.1769546	0.23181422	2.6244763	20	8 17.9	18.3
235112 2003 OJ_{29}	15.9	X	63.89043	279.77069	334.86632	14.48784	0.0941879	0.23455191	2.6040145	20	9 14.2	19.5
235113 2003 PX	15.9	X	351.56153	174.78902	160.81987	14.93912	0.1584015	0.23246969	2.6195407	20	9 26.6	18.5
235114 2003 PV_{1}	16.0	X	230.15947	36.71365	318.07534	7.26416	0.3102777	0.21654265	2.7464630	20	4 2.8	21.0
235115 2003 PW_{4}	16.0	X	236.44269	24.05716	325.21745	7.31228	0.3604236	0.21770936	2.7366419	20	3 29.5	21.2
235116 2003 PH_{7}	16.2	X	326.09638	166.01033	193.37362	3.47015	0.1845551	0.23286031	2.6166104	20	9 4.1	18.6
235117 2003 QL_{6}	16.2	X	262.64041	23.43997	352.83291	6.07574	0.2019575	0.22248006	2.6973791	20	6 9.1	20.3
235118 2003 QU_{7}	16.4	X	187.37206	52.32678	336.69837	6.71069	0.2347367	0.21277360	2.7788017	20	4 15.0	21.3
235119 2003 QF_{11}	15.8	X	220.88039	208.36122	144.00503	10.22220	0.1787306	0.21449065	2.7639519	20	4 5.5	20.4
235120 2003 QQ_{12}	15.9	X	224.79425	32.16923	346.90505	11.26060	0.2515793	0.21818620	2.7326532	20	4 29.4	20.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
235121 2003 QK_{21}	15.7	X	250.79109	341.31112	11.07267	13.07023	0.1329031	0.21782534	2.7356704	20	5 1.2	19.8
235122 2003 QJ_{26}	15.9	X	261.23316	212.38045	166.95036	13.59853	0.1601160	0.22459893	2.6803875	20	6 18.7	20.0
235123 2003 QY_{26}	14.8	X	11.84308	37.61429	349.12287	17.28717	0.2099121	0.18069423	3.0986548	20	—	—
235124 2003 QS_{33}	16.8	X	143.31845	314.98912	311.97177	2.74338	0.3264519	0.25365541	2.4715722	20	12 27.7	21.3
235125 2003 QU_{38}	16.3	X	36.90775	171.95520	146.91865	6.17516	0.1250471	0.23852567	2.5750123	20	11 13.7	19.7
235126 2003 QB_{42}	15.8	X	319.17073	188.39797	168.29725	15.53182	0.1557202	0.22833606	2.6510610	20	8 16.4	18.7
235127 2003 QV_{42}	15.8	X	200.32065	245.98952	154.86176	7.13958	0.1629754	0.21654131	2.7464743	20	5 15.6	20.3
235128 2003 QL_{45}	16.3	X	100.44297	296.02386	328.94651	6.74360	0.1480030	0.24283158	2.5444814	20	11 16.1	20.4
235129 2003 QJ_{47}	17.0	X	325.04762	6.48173	145.62902	23.91767	0.0413075	0.37567980	1.9022057	20	—	—
235130 2003 QY_{53}	16.7	X	42.02553	206.23879	123.96262	5.26218	0.2581674	0.24147413	2.5540084	20	12 21.6	20.4
235131 2003 QL_{57}	16.3	X	357.04729	221.90108	92.07238	3.26409	0.2138466	0.23326723	2.6135665	20	9 10.2	18.4
235132 2003 QP_{57}	16.4	X	115.20105	114.98562	141.12580	8.75553	0.1713835	0.24381510	2.5376340	20	11 24.6	20.6
235133 2003 QN_{59}	16.0	X	310.92796	3.65421	355.29624	14.77464	0.1207996	0.22843559	2.6502909	20	8 15.7	19.1
235134 2003 QR_{60}	16.2	X	312.64377	215.40599	141.40938	7.25208	0.2325108	0.22796980	2.6538997	20	7 24.8	18.7
235135 2003 QF_{63}	15.7	X	301.68732	201.12134	164.14424	13.20299	0.1936636	0.22629697	2.6669624	20	7 20.9	18.8
235136 2003 QJ_{63}	15.4	X	201.49370	205.89698	166.46774	22.29594	0.1962030	0.21087653	2.7954424	20	4 12.8	20.3
235137 2003 QK_{63}	16.1	X	28.01131	161.32829	157.62295	14.00599	0.2642623	0.23615230	2.5922364	20	11 24.1	19.7
235138 2003 QP_{68}	15.7	X	279.20211	185.80509	178.62924	14.40057	0.2593220	0.22422745	2.6833472	20	6 7.2	19.7
235139 2003 QC_{69}	15.4	X	254.74446	329.92248	24.88879	10.47603	0.2605956	0.22042700	2.7141021	20	4 27.4	19.8
235140 2003 QB_{71}	15.5	X	184.16694	351.29795	21.72153	10.26989	0.2228032	0.21021555	2.8012992	20	3 28.9	20.4
235141 2003 QC_{74}	17.0	X	243.78558	65.77552	211.93325	4.18078	0.2155507	0.26927906	2.3750221	20	1 16.0	21.0
235142 2003 QR_{77}	15.3	X	264.24843	17.06761	357.44695	35.73188	0.1277261	0.22083282	2.7107761	20	6 19.6	20.0
235143 2003 QY_{77}	14.8	X	327.90701	48.71087	1.29363	26.73443	0.2451753	0.17540459	3.1606428	20	10 22.6	18.3
235144 2003 QQ_{81}	16.1	X	39.21266	281.72134	341.51888	11.67131	0.1492955	0.23226127	2.6211076	20	9 3.2	19.2
235145 2003 QL_{88}	17.1	X	51.46890	308.83729	12.14064	5.16046	0.2349124	0.24114369	2.5563410	20	12 16.7	21.0
235146 2003 QE_{96}	16.0	X	351.81063	220.72764	124.38719	14.43118	0.1967942	0.23401778	2.6079753	20	10 21.0	18.8
235147 2003 QP_{101}	15.8	X	267.09471	0.28948	20.58398	14.05628	0.1876046	0.22360210	2.6883479	20	6 22.8	19.8
235148 2003 QA_{103}	16.8	X	32.71937	156.22717	150.62270	2.20514	0.1887180	0.23776798	2.5804799	20	10 31.5	19.9
235149 2003 QS_{104}	15.9	X	297.20149	339.66258	342.81388	14.67719	0.1048879	0.22209063	2.7005313	20	5 24.9	19.7
235150 2003 QT_{114}	15.4	X	232.70098	37.42348	343.60799	25.35917	0.1228983	0.22064859	2.7122847	20	5 12.1	20.1
235151 2003 RD	16.9	X	306.69419	54.14854	170.59704	26.42353	0.0817453	0.38355557	1.8760764	20	1 8.4	19.6
235152 2003 RE_{1}	15.7	X	55.66676	290.08317	74.72595	5.84417	0.2261773	0.18623793	3.0368543	20	—	—
235153 2003 RP_{1}	15.6	X	289.12778	228.10982	108.60363	12.81854	0.2054071	0.22392571	2.6857572	20	5 24.3	19.3
235154 2003 RM_{5}	15.8	X	214.49805	32.93839	347.56106	10.98871	0.0695939	0.21785624	2.7354118	20	5 1.9	20.0
235155 2003 RL_{6}	16.2	X	47.19194	181.26354	128.38061	3.60032	0.0640155	0.23911563	2.5707751	20	11 5.5	19.6
235156 2003 RR_{9}	15.6	X	66.11207	108.75501	248.36845	8.15703	0.1240508	0.18841772	3.0133869	20	—	—
235157 2003 RH_{23}	16.0	X	1.44539	47.26176	292.45023	3.76691	0.0955622	0.23504970	2.6003367	20	10 10.4	19.0
235158 2003 SL_{1}	16.6	X	141.42075	77.63138	346.66307	6.52726	0.0609591	0.21110397	2.7934342	20	4 7.5	20.7
235159 2003 SG_{3}	15.7	X	307.09214	18.35974	348.96161	8.97793	0.0242184	0.22754364	2.6572123	20	8 27.2	19.1
235160 2003 SQ_{4}	16.4	X	342.10635	184.97946	153.05619	14.36970	0.1772965	0.23134363	2.6280343	20	9 9.7	18.7
235161 2003 SC_{6}	15.5	X	337.83695	247.19036	182.84738	13.19762	0.1916799	0.18061496	3.0995613	20	12 24.2	19.1
235162 2003 ST_{7}	15.5	X	29.14772	97.80265	335.51402	9.50676	0.1578192	0.19209517	2.9748044	20	—	—
235163 2003 SK_{8}	16.8	X	346.17717	50.94883	278.10255	0.70222	0.1350178	0.22958646	2.6414266	20	9 1.0	19.4
235164 2003 SG_{11}	16.4	X	16.01911	170.19417	250.01532	18.53485	0.0825653	0.36418465	1.9420256	20	—	—
235165 2003 SO_{24}	15.7	X	240.38675	228.91122	152.19466	16.29392	0.0914317	0.21963980	2.7205832	20	6 7.0	20.0
235166 2003 SG_{31}	16.2	X	242.50764	27.70231	5.45627	4.69522	0.1203127	0.21892895	2.7264692	20	6 18.9	20.3
235167 2003 SC_{36}	15.7	X	260.47712	280.42658	52.11020	8.18793	0.2882444	0.21749429	2.7384457	20	4 6.9	20.2
235168 2003 SF_{43}	16.4	X	262.65807	64.01485	324.89505	12.59755	0.2059819	0.22446480	2.6814552	20	6 27.5	20.4
235169 2003 SW_{43}	15.6	X	81.34985	203.96811	175.60872	10.63448	0.1528145	0.19502815	2.9449043	20	—	—
235170 2003 SM_{46}	15.8	X	264.85066	5.98489	358.46831	4.92797	0.1730141	0.22113337	2.7083193	20	5 30.7	19.8
235171 2003 SH_{47}	15.2	X	156.06295	134.20453	278.93705	6.47126	0.1528672	0.21042644	2.7994272	20	4 15.4	19.8
235172 2003 SV_{51}	15.5	X	214.27522	32.01738	18.91451	9.81191	0.1095047	0.21800378	2.7341774	20	6 10.5	19.8
235173 2003 SW_{60}	16.2	X	206.32854	76.46725	323.40303	3.60127	0.1834385	0.21611269	2.7501045	20	5 15.9	20.8
235174 2003 SM_{61}	16.2	X	225.37471	350.69865	38.62948	5.76316	0.1724762	0.21853952	2.7297071	20	5 21.3	20.4
235175 2003 SG_{62}	15.7	X	259.34971	14.89733	12.65157	14.69760	0.1180168	0.22402807	2.6849390	20	7 4.6	19.7
235176 2003 SP_{64}	16.9	X	51.66623	118.36501	193.81133	2.30791	0.1725404	0.23828158	2.5767705	20	11 28.4	20.4
235177 2003 SY_{65}	15.8	X	289.47636	210.54656	124.83356	4.98422	0.1877180	0.22143565	2.7058540	20	5 23.6	19.3
235178 2003 SN_{66}	16.2	X	94.23682	300.91148	299.00027	5.95504	0.0228548	0.23381198	2.6095055	20	9 23.9	19.8
235179 2003 SH_{68}	15.5	X	51.87393	112.26946	274.92529	4.90131	0.1631427	0.18991947	2.9974806	20	—	—
235180 2003 SD_{71}	16.3	X	36.55417	92.55161	223.11686	9.18080	0.0904808	0.23655637	2.5892836	20	10 31.9	19.5
235181 2003 SW_{77}	15.5	X	158.84471	246.18350	332.01053	13.40776	0.1748118	0.24121353	2.5558475	20	11 8.9	19.9
235182 2003 SV_{82}	16.3	X	143.78913	259.75028	181.37671	8.77916	0.1275899	0.21132114	2.7915200	20	5 11.1	20.7
235183 2003 SW_{92}	16.8	X	46.05496	314.01728	339.84926	2.12438	0.0335185	0.23200086	2.6230687	20	10 5.9	20.3
235184 2003 SL_{93}	16.0	X	268.86428	13.82864	2.68004	2.14290	0.1808613	0.22107323	2.7088104	20	6 20.5	19.6
235185 2003 SE_{94}	15.9	X	244.80941	237.56837	106.98003	7.25367	0.0586921	0.21401206	2.7680709	20	4 29.8	19.9
235186 2003 SN_{99}	15.7	X	325.26561	321.46967	7.85766	8.80500	0.1173452	0.22550187	2.6732277	20	7 26.6	18.8
235187 2003 SM_{100}	16.4	X	192.10544	292.52334	160.65838	3.70517	0.0219071	0.22680911	2.6629461	20	7 16.9	20.1
235188 2003 SF_{106}	16.2	X	38.87041	336.45784	329.27071	12.91933	0.2018971	0.23618301	2.5920116	20	11 2.2	19.9
235189 2003 SW_{107}	15.4	X	125.38051	273.06763	341.24817	14.20697	0.2045600	0.24022195	2.5628759	20	11 25.5	20.1
235190 2003 SF_{108}	14.6	X	28.98262	324.31023	4.25323	16.42088	0.1893323	0.17616304	3.1515644	20	11 2.9	18.9
235191 2003 SG_{129}	16.1	X	263.54770	20.45892	33.32841	3.42028	0.0454966	0.22773854	2.6556960	20	8 26.4	19.6
235192 2003 SK_{129}	15.9	X	305.36539	91.46659	244.66925	8.16185	0.0814572	0.22479666	2.6788155	20	7 2.5	19.2
235193 2003 SE_{134}	16.8	X	327.41983	60.02470	268.31510	3.11539	0.0980746	0.22793100	2.6542009	20	7 26.8	19.8
235194 2003 SR_{134}	16.2	X	134.28923	39.41674	30.84400	3.93055	0.0802292	0.20927833	2.8096564	20	4 11.4	20.1
235195 2003 SC_{138}	15.6	X	248.55999	258.18514	179.08756	21.87676	0.0563446	0.22986546	2.6392888	20	9 1.7	19.3
235196 2003 SR_{138}	16.0	X	325.94979	353.41093	342.66291	11.70771	0.1832586	0.22575864	2.6712003	20	8 1.7	18.6
235197 2003 SF_{146}	15.7	X	232.47998	28.95809	6.12700	10.31412	0.1193029	0.21614615	2.7498207	20	6 8.8	20.0
235198 2003 SL_{148}	15.6	X	210.62902	235.42357	131.44894	14.17437	0.2113969	0.21269602	2.7794774	20	4 15.4	20.6
235199 2003 SQ_{148}	16.3	X	342.37320	346.45177	353.23266	4.88473	0.1778166	0.22934438	2.6432850	20	9 11.2	18.5
235200 2003 SP_{154}	15.8	X	210.42167	21.89112	342.33305	7.10487	0.1671659	0.21088692	2.7953506	20	4 5.5	20.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
235201 Lorántffy	15.7	X	29.23895	302.39613	49.67674	28.18993	0.3058131	0.17913543	3.1166047	20	12 21.4	20.3
235202 2003 SP_{158}	16.4	X	90.09164	128.68694	165.34815	17.45151	0.2078679	0.24322771	2.5417179	20	12 18.8	20.9
235203 2003 SE_{164}	16.4	X	182.40356	212.41537	207.40875	3.70245	0.0557444	0.21290036	2.7776986	20	5 21.4	20.3
235204 2003 SH_{167}	15.8	X	229.74574	71.79650	322.46522	7.91411	0.0633005	0.21669229	2.7451985	20	6 11.6	19.8
235205 2003 SQ_{167}	15.5	X	195.70980	265.67162	126.82731	6.82028	0.0639282	0.21391659	2.7688945	20	5 3.6	19.6
235206 2003 SV_{174}	16.4	X	212.99427	183.77472	176.76048	3.87231	0.1129423	0.21234930	2.7825021	20	4 8.3	20.7
235207 2003 SW_{175}	16.3	X	227.49229	61.19374	346.95669	4.89999	0.0771788	0.22004914	2.7172083	20	6 26.4	20.3
235208 2003 SS_{183}	15.9	X	354.86620	168.32366	244.22771	7.25772	0.1451463	0.18213786	3.0822597	20	12 27.7	19.6
235209 2003 SK_{186}	16.9	X	19.70513	177.29344	145.06991	4.28777	0.1295325	0.23553855	2.5967375	20	10 24.3	19.9
235210 2003 SB_{189}	16.0	X	0.17397	295.19130	20.12758	4.23089	0.0544846	0.22865824	2.6485701	20	9 3.3	19.2
235211 2003 SP_{189}	16.2	X	241.56528	11.44392	26.33248	5.20234	0.1912974	0.21865409	2.7287536	20	6 15.7	20.5
235212 2003 SZ_{192}	15.5	X	30.93949	89.22204	313.74225	7.25577	0.0939195	0.18652566	3.0337304	20	—	—
235213 2003 ST_{201}	15.6	X	204.84486	197.43883	199.46331	8.58470	0.1631974	0.21236231	2.7823884	20	5 13.9	20.1
235214 2003 SX_{208}	15.8	X	242.77568	121.44229	242.72202	4.32938	0.0528840	0.21684936	2.7438727	20	5 20.3	19.7
235215 2003 SL_{217}	16.3	X	163.73869	70.56761	26.89689	6.56685	0.0301886	0.21586123	2.7522399	20	6 15.9	20.2
235216 2003 SR_{217}	16.5	X	38.54336	294.33982	1.02499	6.00450	0.0707655	0.23394232	2.6085362	20	10 3.6	19.8
235217 2003 SZ_{223}	15.9	X	216.26504	14.10771	338.23106	12.82194	0.1678261	0.20964477	2.8063814	20	3 25.6	20.6
235218 2003 SX_{230}	16.1	X	246.24837	210.29120	154.43773	7.26554	0.1025537	0.21926876	2.7236515	20	5 21.3	20.1
235219 2003 SU_{231}	16.0	X	229.31566	245.37689	116.18680	5.56041	0.1279878	0.21531217	2.7569168	20	4 26.8	20.3
235220 2003 SE_{232}	16.3	X	205.82511	225.84795	160.56889	9.36555	0.1750657	0.21347875	2.7726791	20	5 3.2	21.0
235221 2003 SZ_{236}	16.4	X	194.61426	212.70921	148.18117	2.13294	0.1043051	0.20896587	2.8124564	20	3 21.8	20.8
235222 2003 SU_{237}	15.9	X	352.33738	309.85849	21.46135	5.33538	0.1369033	0.22895403	2.6462885	20	9 18.5	18.5
235223 2003 SA_{238}	16.7	X	297.68123	99.29674	212.80942	2.43404	0.0742820	0.21606233	2.7505319	20	5 20.6	20.4
235224 2003 SM_{238}	16.1	X	204.57736	125.56288	243.08105	3.37253	0.0898073	0.21227893	2.7831169	20	4 8.7	20.4
235225 2003 SZ_{244}	16.6	X	231.71140	359.29686	6.92350	3.04521	0.1038048	0.21604349	2.7506917	20	5 3.9	20.6
235226 2003 SE_{246}	16.4	X	279.78129	171.63375	146.48122	2.90413	0.0775894	0.21684187	2.7439359	20	5 4.4	20.0
235227 2003 SX_{247}	16.5	X	22.37266	324.08827	0.12325	10.74101	0.1322703	0.23577011	2.5950370	20	10 25.8	19.8
235228 2003 SK_{251}	16.8	X	125.28154	119.19406	208.23873	21.32958	0.0682067	0.36645118	1.9340096	20	—	—
235229 2003 SY_{252}	16.1	X	301.36758	170.35975	174.72293	13.18310	0.0992527	0.22650447	2.6653334	20	7 6.2	19.7
235230 2003 SF_{255}	16.4	X	16.01773	141.50172	163.37638	3.28169	0.0973273	0.23037115	2.6354250	20	9 17.0	19.5
235231 2003 SU_{256}	16.6	X	317.75807	146.52494	213.57984	2.32889	0.1016210	0.22985431	2.6393741	20	8 24.8	19.6
235232 2003 SL_{258}	16.1	X	351.72631	19.96884	25.66385	5.62049	0.1796578	0.17978662	3.1090746	20	12 16.5	19.7
235233 2003 SZ_{258}	15.0	X	328.06204	37.27978	23.95312	11.28432	0.1407298	0.17705890	3.1409248	20	11 19.5	18.7
235234 2003 SV_{260}	16.8	X	68.80690	83.15639	226.43405	4.35731	0.0562763	0.24085313	2.5583965	20	11 30.6	20.2
235235 2003 SB_{263}	15.8	X	186.54285	255.79005	169.96144	13.95499	0.1572330	0.21524219	2.7575144	20	6 2.9	20.5
235236 2003 SS_{267}	16.8	X	236.78242	156.03152	194.96431	1.90974	0.0889008	0.21432149	2.7654060	20	4 22.6	20.7
235237 2003 SE_{276}	16.7	X	41.77967	44.30957	231.15649	5.31009	0.0508297	0.22685729	2.6625691	20	9 5.1	20.3
235238 2003 SF_{280}	16.0	X	185.25611	325.31656	80.27446	5.86263	0.1814346	0.21207960	2.7848605	20	5 7.3	20.6
235239 2003 SO_{290}	16.3	X	284.92371	135.73345	218.10454	5.63442	0.0358950	0.21842851	2.7306320	20	7 3.4	19.9
235240 2003 ST_{290}	16.4	X	215.23543	70.89421	255.98366	1.02440	0.0671958	0.20342326	2.8633140	20	3 1.7	20.8
235241 2003 SA_{301}	16.3	X	297.81967	34.30618	308.57324	5.51726	0.0396729	0.22323022	2.6913327	20	7 7.6	19.8
235242 2003 SL_{302}	15.8	X	125.31095	176.62134	278.14557	7.61842	0.1098498	0.21134261	2.7913310	20	5 2.9	20.0
235243 2003 SS_{302}	16.3	X	165.80554	142.07623	258.49116	3.02256	0.1058379	0.20964316	2.8063957	20	4 8.6	20.7
235244 2003 ST_{308}	15.9	X	50.81505	55.57112	302.17392	16.76754	0.1984332	0.18287281	3.0739960	20	—	—
235245 2003 ST_{310}	16.2	X	20.09442	322.16051	350.26746	13.51514	0.1908789	0.23615822	2.5921930	20	10 13.7	19.3
235246 2003 SD_{317}	16.1	X	226.62834	44.17893	317.99869	4.21627	0.0754238	0.21560625	2.7544093	20	4 24.4	20.2
235247 2003 SG_{319}	16.5	X	274.81909	208.27467	185.43317	7.94234	0.0430077	0.22626878	2.6671839	20	8 11.1	20.0
235248 2003 SV_{319}	16.7	X	57.66297	237.83103	56.67654	8.27932	0.1738670	0.23568071	2.5956932	20	11 12.7	20.3
235249 2003 SF_{320}	16.3	X	266.11895	229.35009	145.56897	17.15807	0.1643288	0.22210077	2.7004492	20	6 19.3	20.4
235250 2003 SR_{320}	16.4	X	324.37699	325.21496	178.63417	4.53081	0.1225829	0.19335428	2.9618759	20	—	—
235251 2003 SU_{320}	17.0	X	43.45027	59.71182	14.96645	3.42628	0.2642901	0.19222930	2.9734205	20	1 1.8	19.7
235252 2003 SN_{321}	16.3	X	234.28592	21.32589	333.29493	8.90840	0.1765872	0.21247227	2.7814284	20	4 13.3	20.9
235253 2003 SU_{321}	15.9	X	178.03161	189.85559	172.99000	9.54044	0.0789882	0.20365521	2.8611395	20	3 6.2	20.2
235254 2003 SH_{322}	15.9	X	220.51559	243.64985	171.09288	7.91945	0.0922698	0.21915471	2.7245964	20	6 24.9	20.0
235255 2003 SR_{323}	16.0	X	108.78221	155.92258	350.83944	11.60228	0.0923580	0.21867697	2.7285632	20	6 20.6	20.1
235256 2003 SS_{353}	16.3	X	327.11602	194.74925	150.27975	7.70004	0.1427097	0.22764128	2.6564524	20	8 17.4	19.1
235257 2003 SR_{354}	15.6	X	339.91643	253.91907	24.20511	13.74045	0.0178618	0.21917803	2.7244031	20	6 7.8	19.4
235258 2003 ST_{378}	16.5	X	110.36684	26.11667	165.27327	2.57329	0.0393436	0.22610148	2.6684994	20	8 14.6	20.2
235259 2003 SV_{414}	16.9	X	142.33836	56.65292	32.31052	4.42551	0.0276885	0.21394445	2.7686541	20	5 8.6	20.8
235260 2003 SE_{415}	16.6	X	331.45782	174.18735	158.89794	4.53938	0.0868905	0.22696358	2.6617377	20	8 10.4	19.5
235261 2003 SU_{420}	16.5	X	185.40944	246.91958	171.26011	6.12280	0.0989818	0.21530988	2.7569364	20	5 23.3	20.7
235262 2003 SB_{428}	16.5	X	99.20193	8.62800	220.04191	2.10564	0.0339297	0.23251810	2.6191772	20	9 18.9	19.9
235263 2003 SN_{428}	16.3	X	59.54109	303.00903	287.00947	1.46957	0.0699580	0.22535388	2.6743979	20	8 4.1	19.7
235264 2003 TD_{4}	15.9	X	111.91978	344.06395	236.92822	8.45939	0.1359908	0.23189773	2.6238463	20	9 30.8	20.0
235265 2003 TY_{8}	15.6	X	194.24003	317.74560	86.60444	9.33248	0.1693232	0.21412779	2.7670735	20	5 14.4	20.2
235266 2003 TD_{9}	15.9	X	107.97802	297.74989	329.86991	12.67782	0.2519157	0.23906604	2.5711306	20	11 30.3	20.6
235267 2003 TU_{11}	15.2	X	52.18450	331.69094	23.41771	6.79887	0.0723287	0.18276722	3.0751797	20	12 25.3	19.7
235268 2003 TK_{12}	16.1	X	323.47150	133.21061	190.21317	11.14269	0.0293669	0.22175666	2.7032420	20	7 16.4	19.8
235269 2003 TA_{21}	15.4	X	346.32872	307.09921	93.93950	8.16879	0.1114271	0.17836657	3.1255545	20	11 27.2	19.2
235270 2003 TN_{31}	17.0	X	133.40551	102.56126	27.91411	4.35868	0.1533122	0.21492819	2.7601994	20	7 2.6	21.3
235271 2003 TX_{37}	16.1	X	60.96199	309.99117	260.94379	7.87605	0.0902812	0.21915927	2.7245586	20	7 12.7	19.6
235272 2003 TK_{44}	15.3	X	12.79736	5.59882	63.43087	17.28597	0.1271935	0.18735460	3.0247754	20	—	—
235273 2003 TA_{50}	17.6	X	99.76324	3.39541	4.99291	19.69155	0.0963499	0.36884979	1.9256160	20	—	—
235274 2003 TE_{50}	16.3	X	130.93384	235.15035	145.65445	11.34554	0.1977339	0.20015525	2.8943968	20	2 20.5	20.8
235275 2003 TO_{57}	16.7	X	267.78651	17.89306	10.65672	1.91463	0.0945081	0.22367453	2.6877675	20	7 19.4	20.3
235276 2003 TR_{58}	16.4	X	197.61204	171.80329	176.65939	1.43277	0.1250486	0.20475165	2.8509161	20	3 9.3	21.0
235277 2003 UO_{8}	15.6	X	333.44911	159.34883	203.75123	13.93009	0.1302069	0.22809352	2.6529400	20	9 24.4	18.5
235278 2003 UE_{11}	17.3	X	152.33989	279.38721	40.68510	21.45984	0.0908676	0.37036954	1.9203448	20	—	—
235279 2003 UL_{17}	15.3	X	33.87105	191.57669	278.11210	9.52664	0.2366181	0.19172189	2.9786645	20	1 24.9	18.0
235280 2003 UU_{17}	16.0	X	276.58765	338.68140	15.06502	5.13617	0.1271018	0.21945876	2.7220793	20	6 7.4	19.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
235281 Jackwilliamson	15.0	X	270.58922	105.48017	27.85254	26.10038	0.2265371	0.17619830	3.1511439	20	11 4.0	19.3
235282 2003 UO_{19}	15.6	X	1.71121	295.41063	7.98510	8.79897	0.1525951	0.22628509	2.6670557	20	8 28.8	18.4
235283 2003 UC_{29}	15.6	X	317.38450	234.34879	221.88133	14.40896	0.2083509	0.17786130	3.1314711	20	12 16.4	19.0
235284 2003 UF_{32}	16.6	X	343.28780	119.84917	209.14770	5.61122	0.0731896	0.22598766	2.6693954	20	8 22.9	19.8
235285 2003 UF_{34}	16.7	X	31.80021	324.26959	279.66616	3.42487	0.0398646	0.21932219	2.7232091	20	7 9.4	20.3
235286 2003 UQ_{36}	15.9	X	323.07766	148.24819	276.88183	9.32694	0.2157886	0.17648622	3.1477158	20	11 14.3	19.3
235287 2003 UL_{41}	16.7	X	63.27026	158.51701	15.96297	3.46991	0.0264856	0.21449621	2.7639041	20	5 17.7	20.4
235288 2003 UQ_{43}	16.2	X	289.28535	162.05854	183.28724	6.04127	0.0329645	0.22023627	2.7156689	20	6 28.7	19.9
235289 2003 UJ_{49}	16.1	X	53.16648	321.04091	355.32724	12.73304	0.2578287	0.23823321	2.5771192	20	12 14.1	20.3
235290 2003 UU_{50}	16.0	X	167.90681	77.76821	332.61240	4.99074	0.0699167	0.21043940	2.7993123	20	4 20.6	20.3
235291 2003 UY_{56}	15.0	X	75.37012	85.37284	223.35348	25.04672	0.2215162	0.17864424	3.1223149	20	12 10.5	20.2
235292 2003 UG_{58}	16.2	X	290.02476	49.83154	282.41874	4.80891	0.0524037	0.21858364	2.7293399	20	6 9.1	19.9
235293 2003 UK_{66}	15.7	X	73.74482	192.75498	163.90145	14.80007	0.1448540	0.18582503	3.0413512	20	—	—
235294 2003 UC_{69}	16.8	X	183.80564	212.35841	179.94371	4.33808	0.0805122	0.21129112	2.7917845	20	4 18.4	21.0
235295 2003 UU_{71}	16.4	X	155.01889	76.67427	342.82520	2.94160	0.0621852	0.20987988	2.8042852	20	4 18.3	20.5
235296 2003 UW_{73}	17.2	X	242.03292	186.96123	37.14340	20.83154	0.0367306	0.36808741	1.9282740	20	—	—
235297 2003 UN_{80}	16.2	X	340.91513	276.98606	42.07730	5.56191	0.0936248	0.22511040	2.6763260	20	8 9.3	19.3
235298 2003 UQ_{80}	16.8	X	347.89255	281.37372	49.14602	4.56434	0.1611918	0.22885635	2.6470414	20	9 10.8	19.3
235299 2003 UO_{83}	15.8	X	156.37636	100.87478	341.74309	6.27050	0.0750620	0.21093316	2.7949421	20	5 19.4	20.1
235300 2003 UN_{86}	15.8	X	330.69420	239.98725	83.65351	9.67855	0.1118253	0.22221227	2.6995457	20	7 26.5	18.9
235301 2003 UP_{91}	16.3	X	269.99244	164.47505	121.35499	3.01590	0.0336776	0.20640844	2.8356399	20	3 18.4	20.2
235302 2003 UD_{93}	15.9	X	15.37661	323.99503	351.73399	9.32818	0.1877784	0.23196537	2.6233361	20	10 11.2	18.8
235303 2003 UK_{94}	16.3	X	3.87335	309.92016	21.70750	4.82251	0.1881773	0.23160667	2.6260441	20	10 15.9	19.0
235304 2003 UA_{96}	16.2	X	261.17200	332.03648	30.53343	5.50759	0.1288098	0.21817771	2.7327242	20	5 29.9	20.2
235305 2003 UE_{97}	16.2	X	347.10697	286.72429	29.74430	13.73717	0.1421911	0.22523087	2.6753716	20	8 22.9	19.3
235306 2003 UM_{109}	14.8	X	7.24760	104.35075	227.17938	17.65003	0.1560821	0.17013683	3.2255504	20	9 29.0	18.8
235307 2003 UX_{112}	16.1	X	344.46665	216.91970	131.54578	5.86644	0.0384471	0.22820713	2.6520594	20	9 25.3	19.4
235308 2003 UO_{114}	16.9	X	221.49156	76.09774	306.20087	2.37569	0.1069079	0.21441685	2.7645860	20	5 13.2	21.0
235309 2003 UL_{122}	16.3	X	220.77214	2.03498	25.28194	4.33445	0.0822444	0.21398052	2.7683430	20	5 20.7	20.5
235310 2003 UC_{126}	16.5	X	225.61674	322.59570	64.53302	5.19286	0.0832527	0.21525026	2.7574454	20	5 26.6	20.5
235311 2003 UY_{128}	16.5	X	115.08600	82.72931	32.56451	6.22371	0.0848362	0.20851596	2.8165006	20	5 15.8	20.5
235312 2003 UL_{133}	15.8	X	76.77683	313.00793	335.37037	13.76154	0.1465538	0.23696800	2.5862842	20	11 17.9	19.9
235313 2003 UJ_{134}	16.1	X	182.70907	77.94796	343.23769	6.03303	0.1134238	0.21209789	2.7847004	20	5 21.2	20.5
235314 2003 UV_{140}	15.5	X	113.18260	157.14768	64.95716	16.03048	0.0336383	0.23017760	2.6369021	20	10 7.2	19.4
235315 2003 UP_{144}	16.0	X	201.95438	120.33915	281.45835	3.86471	0.1598801	0.21100005	2.7943514	20	5 15.6	20.5
235316 2003 UV_{144}	15.9	X	336.77601	43.20396	275.93373	7.65283	0.2669299	0.22490503	2.6779550	20	7 19.4	17.9
235317 2003 UK_{165}	15.9	X	207.27176	197.98023	225.04023	3.09064	0.0841597	0.21550653	2.7552590	20	6 21.4	19.9
235318 2003 UD_{171}	16.2	X	180.23176	119.38953	302.35166	2.36413	0.0843532	0.21064495	2.7974908	20	5 20.5	20.5
235319 2003 UG_{173}	15.4	X	56.08234	110.02079	230.52971	10.42308	0.1177088	0.18000183	3.1065954	20	12 17.5	19.9
235320 2003 UA_{175}	16.6	X	104.47510	264.75227	170.25727	2.61566	0.1487953	0.20080693	2.8881312	20	3 23.1	20.5
235321 2003 UA_{178}	15.2	X	334.21684	21.95235	27.83510	15.74839	0.1080210	0.17640205	3.1487171	20	11 13.8	19.2
235322 2003 UM_{178}	15.8	X	152.37939	33.20321	343.92658	1.90533	0.1935165	0.20177842	2.8788536	20	3 5.7	20.4
235323 2003 UU_{181}	16.7	X	241.47148	135.59740	235.17029	1.24699	0.0696235	0.21556519	2.7547591	20	5 25.5	20.5
235324 2003 UM_{185}	15.4	X	133.49077	33.42604	33.89677	13.94235	0.1451011	0.20410476	2.8569368	20	4 14.8	19.7
235325 2003 UF_{186}	16.4	X	206.33634	272.21541	151.58189	3.25824	0.1576991	0.21551243	2.7552087	20	6 17.3	20.9
235326 2003 UY_{189}	16.1	X	111.11296	30.55727	356.14543	1.74796	0.1018789	0.19482623	2.9469387	20	1 26.1	20.1
235327 2003 UY_{191}	15.3	X	272.10517	263.68629	229.58224	26.10595	0.3313419	0.17277919	3.1925798	20	10 24.4	19.8
235328 2003 UA_{195}	16.0	X	4.01433	328.81644	336.20412	2.20425	0.0823250	0.22265176	2.6959922	20	8 25.5	19.2
235329 2003 UG_{196}	16.5	X	256.81388	5.71347	353.20491	2.92827	0.1202585	0.21585498	2.7522930	20	5 21.2	20.3
235330 2003 UJ_{197}	15.9	X	22.01667	276.91528	99.45727	2.56888	0.1149045	0.17957420	3.1115259	20	12 18.3	19.8
235331 2003 UM_{198}	15.9	X	215.39703	207.30320	182.48237	11.61085	0.0853441	0.21242099	2.7818760	20	5 20.4	20.2
235332 2003 UT_{199}	16.0	X	212.27580	12.52490	56.29606	3.06770	0.1207299	0.21813759	2.7330593	20	7 2.1	20.1
235333 2003 UE_{201}	15.6	X	125.07117	285.81944	198.86808	12.04906	0.1242823	0.21139025	2.7909116	20	6 13.8	20.0
235334 2003 UK_{203}	15.4	X	90.49815	110.72372	30.19890	12.43917	0.0612936	0.20868304	2.8149971	20	5 13.5	19.3
235335 2003 UO_{207}	16.2	X	215.29457	150.49268	252.84518	3.30911	0.0677902	0.21457530	2.7632249	20	6 6.2	20.2
235336 2003 UT_{210}	15.4	X	293.91779	80.01496	237.36612	12.07353	0.1592015	0.21509216	2.7587965	20	5 8.4	19.1
235337 2003 UY_{215}	15.6	X	74.59516	78.47530	46.47194	15.54259	0.1041746	0.20394354	2.8584422	20	4 14.6	19.4
235338 2003 UL_{216}	16.0	X	219.58696	83.08955	340.20324	4.38679	0.0492143	0.21934865	2.7229902	20	7 10.3	19.8
235339 2003 UG_{222}	16.3	X	65.95145	337.10179	343.48847	3.77370	0.2859705	0.23963072	2.5670897	20	—	—
235340 2003 UP_{224}	16.1	X	331.83299	327.24926	3.95673	6.12736	0.0343579	0.22239145	2.6980955	20	8 12.8	19.5
235341 2003 UB_{238}	16.2	X	259.86582	280.03658	81.58641	5.29451	0.2486409	0.21699696	2.7426282	20	5 14.3	20.4
235342 2003 UF_{242}	16.5	X	358.36169	158.10145	181.85878	2.37122	0.1281438	0.22946310	2.6423731	20	10 10.2	19.2
235343 2003 UR_{242}	16.2	X	340.18283	268.73689	58.90342	7.93654	0.1712529	0.22494366	2.6776484	20	8 21.7	18.9
235344 2003 UC_{248}	16.6	X	318.10155	347.75085	28.28217	4.72154	0.1060908	0.22846880	2.6500340	20	9 19.7	19.4
235345 2003 UL_{255}	16.3	X	9.97995	255.22930	62.97762	6.47222	0.1889614	0.23036271	2.6354894	20	10 11.0	19.0
235346 2003 UH_{259}	16.0	X	264.13651	55.60347	279.20607	2.86302	0.1482367	0.21296160	2.7771661	20	4 24.7	20.0
235347 2003 UP_{260}	16.2	X	318.70046	302.73588	33.35691	6.28456	0.0393967	0.22160334	2.7044888	20	7 30.8	19.7
235348 2003 UQ_{266}	15.9	X	19.79005	226.05444	46.23533	7.65201	0.0570065	0.21996982	2.7178614	20	8 4.9	19.4
235349 2003 UM_{268}	16.0	X	313.97850	90.44066	226.69210	5.65747	0.0819824	0.21691107	2.7433522	20	6 19.6	19.5
235350 2003 UW_{268}	16.7	X	128.39000	246.50147	349.10671	4.54435	0.1990612	0.23656543	2.5892175	20	11 7.2	21.0
235351 2003 UD_{273}	15.8	X	2.94855	12.54695	37.05163	15.90247	0.0869404	0.18055604	3.1002356	20	12 29.5	20.1
235352 2003 UN_{282}	15.9	X	56.34528	162.12069	186.44744	8.83729	0.1740100	0.23893799	2.5720490	20	—	—
235353 2003 UZ_{303}	16.3	X	225.49188	38.92674	350.32991	4.69083	0.0597737	0.21502873	2.7593389	20	5 30.5	20.4
235354 2003 UP_{315}	16.0	X	336.83985	262.08187	150.23683	10.26677	0.2171155	0.17593964	3.1542317	20	11 30.6	19.4
235355 2003 UE_{323}	15.5	X	125.50726	59.12758	226.49647	8.48240	0.1279900	0.18364751	3.0653450	20	12 23.9	20.5
235356 2003 UZ_{329}	16.6	X	36.61751	292.87851	348.01015	4.33939	0.1354390	0.22827440	2.6515383	20	9 20.3	19.7
235357 2003 UH_{337}	17.0	X	106.71534	41.63013	184.74355	5.03600	0.0819057	0.23205233	2.6226807	20	9 30.9	20.6
235358 2003 UJ_{343}	16.0	X	16.22717	344.89874	198.33354	11.16007	0.1440918	0.21130542	2.7916585	20	3 26.0	18.9
235359 2003 US_{343}	16.9	X	277.73265	180.50010	170.46160	6.20601	0.0640080	0.21979104	2.7193351	20	6 16.2	20.6
235360 2003 UE_{359}	16.4	X	313.09517	110.71468	188.27738	4.14246	0.0375125	0.21508955	2.7588188	20	5 30.5	20.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
235361 2003 UT_{365}	16.6	X	359.29274	298.67783	232.58661	1.10117	0.0107896	0.19954098	2.9003338	20	2 18.8	20.6
235362 2003 UQ_{378}	16.7	X	102.18665	216.51757	28.32459	1.62302	0.1229680	0.23531970	2.5983472	20	10 23.1	20.6
235363 2003 VU_{2}	14.8	X	146.61934	28.83831	9.01354	27.77672	0.1987238	0.19906702	2.9049356	20	3 27.1	19.5
235364 2003 WU_{6}	16.4	X	269.21281	3.43422	322.89246	2.81918	0.2312350	0.21483563	2.7609921	20	4 9.3	20.7
235365 2003 WF_{9}	15.3	X	73.82407	323.40246	9.31670	8.02706	0.2212049	0.18138557	3.0907762	20	—	—
235366 2003 WN_{11}	14.8	X	286.27965	167.53207	265.38900	18.39474	0.1322146	0.16948611	3.2338012	20	9 19.7	19.5
235367 2003 WL_{20}	15.4	X	107.40786	292.44460	23.98668	11.54166	0.0614133	0.18062037	3.0994994	20	—	—
235368 2003 WY_{23}	16.0	X	245.67554	256.83147	108.86749	5.43814	0.0872768	0.21258993	2.7804020	20	5 23.0	20.0
235369 2003 WZ_{23}	16.0	X	186.80104	310.34660	121.03588	5.37065	0.0500749	0.21204784	2.7851386	20	6 10.7	20.0
235370 2003 WX_{24}	16.9	X	163.16025	255.97455	35.85258	23.50628	0.0577314	0.36457129	1.9406523	20	—	—
235371 2003 WS_{27}	16.4	X	290.60929	36.09858	302.62596	4.12093	0.1700137	0.21778891	2.7359755	20	5 30.8	20.1
235372 2003 WP_{37}	15.5	X	332.51628	53.99699	6.70812	10.45458	0.0438362	0.17471737	3.1689252	20	11 24.4	19.9
235373 2003 WU_{38}	15.2	X	325.48768	76.21207	43.82170	12.76732	0.2617801	0.17655179	3.1469364	20	—	—
235374 2003 WE_{39}	15.9	X	337.20285	331.70819	0.48011	6.25034	0.1667090	0.22444415	2.6816197	20	8 19.9	18.4
235375 2003 WJ_{42}	16.0	X	30.95091	251.29364	65.24589	12.28142	0.2076789	0.23035958	2.6355132	20	11 12.9	19.3
235376 2003 WK_{44}	15.2	X	260.55606	176.80865	309.29181	11.73869	0.0488627	0.17435233	3.1733469	20	11 8.3	19.8
235377 2003 WL_{44}	15.3	X	316.68394	68.24039	351.81378	11.75175	0.1110503	0.17332098	3.1859231	20	10 27.9	19.5
235378 2003 WT_{48}	16.2	X	251.72719	179.61629	191.91191	3.98897	0.1327976	0.21504981	2.7591587	20	5 31.4	20.1
235379 2003 WY_{57}	15.7	X	252.16425	320.82707	49.91255	7.12532	0.0862131	0.21404613	2.7677772	20	6 4.7	19.6
235380 2003 WL_{62}	16.1	X	245.16619	150.50933	220.06817	4.83936	0.0937601	0.21285246	2.7781153	20	5 27.1	20.1
235381 2003 WK_{66}	15.0	X	351.45537	44.56769	45.46965	17.47196	0.2073173	0.17883722	3.1200683	20	—	—
235382 2003 WV_{77}	15.3	X	253.58600	10.01053	358.91029	13.36827	0.0744237	0.21622108	2.7491854	20	6 3.7	19.4
235383 2003 WE_{80}	15.3	X	41.08100	243.58746	56.67079	28.17845	0.2528565	0.22939072	2.6429289	20	11 12.6	18.9
235384 2003 WQ_{81}	16.1	X	66.84305	251.92964	20.90296	11.58719	0.1815808	0.23258379	2.6186839	20	10 25.2	19.9
235385 2003 WB_{83}	15.6	X	352.91830	289.16174	173.63725	13.96533	0.2521280	0.18292793	3.0733784	20	—	—
235386 2003 WL_{83}	14.9	X	102.50640	19.95846	12.45775	12.16659	0.1423903	0.19263992	2.9691937	20	2 1.7	19.2
235387 2003 WC_{96}	16.1	X	327.23880	3.72116	61.25621	2.70012	0.1889163	0.17598774	3.1536569	20	11 24.9	19.5
235388 2003 WG_{96}	16.2	X	213.09131	334.53394	48.60375	3.63187	0.1279088	0.21086241	2.7955672	20	5 5.2	20.5
235389 2003 WV_{96}	15.9	X	190.42138	328.88441	73.77087	5.00620	0.1039007	0.20919969	2.8103604	20	5 8.5	20.3
235390 2003 WG_{99}	15.3	X	285.76770	67.49350	53.18677	26.53045	0.1951324	0.17404767	3.1770489	20	11 19.0	19.0
235391 2003 WT_{101}	16.2	X	96.95965	349.35059	63.08305	4.95912	0.1208027	0.19541390	2.9410275	20	2 13.4	20.2
235392 2003 WS_{125}	14.7	X	310.40458	237.08688	280.03839	15.62863	0.1675315	0.17892880	3.1190037	20	—	—
235393 2003 WF_{130}	15.1	X	166.13505	203.74467	51.57657	11.23168	0.0739017	0.17805267	3.1292269	20	12 27.1	19.9
235394 2003 WX_{134}	16.0	X	104.58640	348.75167	69.95295	7.28388	0.2079316	0.19588215	2.9363387	20	3 15.0	20.3
235395 2003 WS_{151}	16.2	X	131.68354	233.76378	189.84517	7.56591	0.0849327	0.20136612	2.8827818	20	3 31.8	20.5
235396 2003 WH_{155}	15.6	X	82.87332	310.60567	111.72360	10.09579	0.0717457	0.19323413	2.9631035	20	1 30.4	19.6
235397 2003 WD_{161}	16.2	X	238.75833	262.21154	82.02129	3.19804	0.0805662	0.20682913	2.8317935	20	4 18.5	20.4
235398 2003 WV_{162}	15.7	X	349.70457	235.71921	71.54584	12.77166	0.1556887	0.22118094	2.7079309	20	8 10.5	18.7
235399 2003 WN_{163}	16.5	X	175.22830	78.48057	303.91422	1.74239	0.0723941	0.20191121	2.8775912	20	3 26.6	20.8
235400 2003 WE_{169}	15.5	X	24.81646	172.74967	184.04849	10.67523	0.2072504	0.17605673	3.1528329	20	12 11.1	19.7
235401 2003 WL_{169}	14.9	X	351.83902	339.95591	66.82527	16.49625	0.2587134	0.17335325	3.1855277	20	12 24.3	18.3
235402 2003 WR_{173}	15.2	X	98.01979	235.97906	60.92667	12.26177	0.2129755	0.17873635	3.1212421	20	12 16.4	20.5
235403 2003 WM_{185}	16.1	X	286.66491	223.18335	75.68990	3.16344	0.0376223	0.20322892	2.8651391	20	4 24.7	19.9
235404 2003 XU_{1}	16.3	X	162.71244	212.97782	163.01380	3.14805	0.2556210	0.20223422	2.8745263	20	3 16.4	21.3
235405 2003 XK_{2}	15.9	X	25.51846	300.70971	160.39645	4.79062	0.2208112	0.18728399	3.0255357	20	—	—
235406 2003 XX_{14}	15.5	X	317.48445	101.62664	8.19142	25.59103	0.2732332	0.17723913	3.1387952	20	—	—
235407 2003 XX_{18}	15.9	X	92.21085	291.71142	98.77986	2.64717	0.2129008	0.19093069	2.9868877	20	1 23.6	19.7
235408 2003 XF_{20}	16.0	X	330.23335	93.82915	79.82674	15.60994	0.2154874	0.18283787	3.0743876	20	—	—
235409 2003 XS_{22}	15.8	X	301.97086	331.38505	15.61974	9.64159	0.1563443	0.22053321	2.7132307	20	7 3.2	19.2
235410 2003 XR_{33}	16.7	X	295.50893	105.89739	199.99688	3.22459	0.0797676	0.20981058	2.8049026	20	5 8.7	20.4
235411 2003 XJ_{34}	16.6	X	24.73048	223.28515	236.27077	0.79565	0.1869603	0.18676700	3.0311164	20	—	—
235412 2003 XM_{38}	15.4	X	21.19881	93.27845	340.52541	14.42280	0.2470606	0.18244947	3.0787492	20	—	—
235413 2003 YY_{2}	15.7	X	355.26176	351.10555	110.38625	2.67556	0.1639455	0.17944942	3.1129682	20	—	—
235414 2003 YM_{11}	15.3	X	4.87550	20.40864	65.15685	15.21271	0.1436985	0.17981794	3.1087135	20	—	—
235415 2003 YL_{16}	14.8	X	343.73166	37.95211	96.72224	18.58051	0.1783451	0.17878487	3.1206774	20	—	—
235416 2003 YO_{19}	16.2	X	136.66064	213.97544	213.85922	1.18338	0.0949864	0.20146953	2.8817953	20	4 12.5	20.3
235417 2003 YF_{24}	16.3	X	358.74682	124.64129	317.42772	2.44993	0.1900892	0.18040836	3.1019272	20	—	—
235418 2003 YB_{31}	15.3	X	47.82568	335.62798	82.78477	11.32060	0.0557517	0.18398567	3.0615878	20	—	—
235419 2003 YJ_{31}	14.8	X	212.44498	110.24165	77.08571	22.98237	0.0934456	0.17100755	3.2145919	20	11 25.8	19.7
235420 2003 YA_{34}	15.1	X	222.22560	289.68260	26.40501	12.25742	0.0361524	0.19730999	2.9221556	20	3 4.1	19.4
235421 2003 YW_{37}	15.1	X	32.81698	138.09596	319.30230	9.24206	0.0871055	0.18272882	3.0756106	20	1 7.1	19.0
235422 2003 YQ_{41}	15.6	X	270.10542	78.36173	108.10912	15.32296	0.2136105	0.17336534	3.1853797	20	—	—
235423 2003 YQ_{45}	15.5	X	357.75009	45.22732	79.93671	7.35602	0.1771327	0.18622847	3.0369572	20	—	—
235424 2003 YF_{51}	16.3	X	33.98853	0.53778	81.47696	2.82901	0.2918837	0.18444439	3.0565095	20	—	—
235425 2003 YA_{69}	16.0	X	183.28644	232.92595	179.96151	6.73273	0.0968122	0.20870987	2.8147558	20	5 14.6	20.3
235426 2003 YH_{70}	15.3	X	350.41185	22.56715	114.11385	13.41444	0.1120483	0.18104496	3.0946516	20	—	—
235427 2003 YP_{70}	16.8	X	88.23365	46.45427	272.59606	17.70166	0.0499051	0.35156174	1.9882378	20	—	—
235428 2003 YK_{71}	14.9	X	209.95371	267.28462	271.62162	7.38750	0.0459701	0.17069497	3.2185153	20	11 14.3	19.7
235429 2003 YM_{79}	15.7	X	65.85066	97.54722	316.31586	5.00007	0.1492673	0.18496518	3.0507695	20	1 6.9	19.4
235430 2003 YL_{81}	15.7	X	10.85720	15.29623	88.81555	9.64747	0.1665635	0.18236553	3.0796938	20	—	—
235431 2003 YW_{87}	15.4	X	356.75818	318.80494	101.64155	15.84422	0.2782997	0.17465033	3.1697361	20	—	—
235432 2003 YF_{92}	15.2	X	312.20763	45.21973	61.54016	16.76001	0.1029864	0.17922591	3.1155557	20	12 24.4	19.2
235433 2003 YW_{93}	15.2	X	298.56872	222.30838	299.24409	26.39804	0.1851783	0.17500622	3.1654374	20	—	—
235434 2003 YM_{97}	16.0	X	220.65660	311.59488	106.70857	4.90383	0.0786249	0.21435003	2.7651606	20	7 1.1	19.8
235435 2003 YP_{106}	15.2	X	79.42289	325.43574	103.88723	12.31294	0.0400496	0.18605273	3.0388693	20	2 1.1	19.4
235436 2003 YS_{109}	16.0	X	35.62124	177.17895	224.06012	3.08429	0.1834494	0.17767308	3.1336823	20	—	—
235437 2003 YZ_{111}	15.8	X	355.56246	54.61531	61.44473	15.73117	0.2573338	0.18226880	3.0807834	20	—	—
235438 2003 YG_{112}	15.7	X	10.39413	141.56879	285.82973	11.01242	0.3378210	0.18066544	3.0989839	20	—	—
235439 2003 YN_{115}	15.1	X	285.52635	114.77722	80.71003	17.50334	0.2143580	0.17766180	3.1338149	20	—	—
235440 2003 YK_{120}	16.0	X	67.17828	289.39349	154.98037	1.26040	0.1340758	0.18905453	3.0066162	20	2 13.2	19.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
235441 2003 YV_{123}	16.5	X	133.54429	231.04231	212.12350	1.38056	0.0359034	0.20301228	2.8671770	20	4 21.9	20.3
235442 2003 YZ_{131}	15.6	X	115.58823	0.47948	43.17913	10.49237	0.0791961	0.19073766	2.9889025	20	2 23.1	20.0
235443 2003 YE_{132}	15.2	X	185.19300	13.01364	339.17111	11.17509	0.0315721	0.19238771	2.9717881	20	2 29.9	19.6
235444 2003 YF_{132}	15.1	X	35.40068	105.85340	336.99020	11.88513	0.0512262	0.18228656	3.0805833	20	—	—
235445 2003 YF_{134}	15.2	X	190.04195	231.29292	69.83316	17.20005	0.0323786	0.18327757	3.0694685	20	1 6.6	19.8
235446 2003 YT_{139}	15.4	X	26.37631	357.31823	104.47784	14.01168	0.1534653	0.18380948	3.0635439	20	1 1.3	18.9
235447 2003 YB_{141}	15.5	X	69.30903	40.02251	28.18311	10.73216	0.1076876	0.18820743	3.0156310	20	1 27.5	19.5
235448 2003 YH_{141}	15.7	X	141.53931	40.51061	9.96288	10.39797	0.0826713	0.19760230	2.9192730	20	3 26.9	20.0
235449 2003 YZ_{145}	16.1	X	356.44672	91.09870	22.96252	9.90544	0.1945904	0.17955781	3.1117153	20	—	—
235450 2003 YB_{147}	15.5	X	194.46705	6.20307	14.79798	12.99130	0.0953059	0.20461834	2.8521543	20	4 13.5	19.8
235451 2003 YL_{148}	15.9	X	337.41535	85.81913	342.21557	12.36849	0.2936092	0.17359035	3.1826265	20	12 26.6	19.0
235452 2003 YZ_{148}	14.6	X	223.14579	18.96909	76.16984	22.40417	0.0596831	0.15567895	3.4222845	20	8 26.6	20.0
235453 2003 YN_{149}	15.1	X	344.27002	109.98434	351.95472	16.00841	0.1872797	0.17670170	3.1451563	20	—	—
235454 2003 YA_{150}	15.4	X	357.30667	152.01759	345.48518	8.65926	0.0756648	0.18499947	3.0503925	20	1 5.2	19.4
235455 2003 YS_{150}	15.6	X	281.37243	88.16402	55.45617	11.49207	0.2654339	0.16950863	3.2335147	20	11 29.6	19.4
235456 2003 YC_{151}	15.3	X	357.10545	72.13423	35.15671	13.71997	0.1968701	0.17884546	3.1199726	20	—	—
235457 2003 YP_{153}	15.0	X	24.42889	24.67065	51.68729	16.31941	0.1197326	0.18128786	3.0918866	20	—	—
235458 2003 YZ_{156}	16.0	X	110.67069	209.55061	177.74062	6.80453	0.1249978	0.19219591	2.9737648	20	1 28.0	20.3
235459 2003 YP_{162}	15.7	X	49.50141	61.36756	18.45586	10.88618	0.1214556	0.18573252	3.0423610	20	1 12.8	19.6
235460 2003 YS_{162}	15.4	X	306.49683	146.00511	356.82328	7.10364	0.1377586	0.17717403	3.1395640	20	—	—
235461 2003 YG_{164}	15.4	X	236.22030	119.10376	60.27162	5.28441	0.1703967	0.17280653	3.1922430	20	11 30.1	20.0
235462 2003 YN_{165}	16.1	X	72.77773	340.59568	129.22418	2.78943	0.0538817	0.19668334	2.9283591	20	3 13.8	19.9
235463 2003 YQ_{165}	16.8	X	23.31168	282.14912	135.69180	2.66633	0.1652482	0.18166473	3.0876091	20	—	—
235464 2003 YS_{165}	15.3	X	47.95280	344.72333	85.50924	11.07626	0.0888873	0.18158637	3.0884973	20	—	—
235465 2003 YL_{174}	16.1	X	8.18829	276.18878	191.91856	1.84300	0.1724884	0.18485492	3.0519825	20	—	—
235466 2003 YB_{182}	15.7	X	73.28985	252.82911	86.52183	2.34165	0.1217950	0.17007832	3.2262900	20	—	—
235467 2004 AA_{3}	15.2	X	352.75269	355.37929	125.85004	18.48002	0.1643288	0.17911351	3.1168590	20	—	—
235468 2004 AB_{3}	15.5	X	347.39001	137.84810	347.28129	12.89457	0.1307466	0.18122594	3.0925909	20	—	—
235469 2004 AH_{14}	15.5	X	104.80571	274.59144	157.04954	10.94792	0.1109050	0.19133985	2.9826280	20	3 16.0	19.7
235470 2004 AF_{22}	15.9	X	294.15407	35.57576	157.97843	1.11284	0.1116603	0.17994369	3.1072650	20	—	—
235471 2004 BZ_{15}	15.0	X	265.46580	97.60661	113.51119	11.44634	0.1248015	0.17445791	3.1720664	20	—	—
235472 2004 BX_{17}	15.5	X	287.69056	155.78924	23.05363	13.26905	0.0937816	0.17636426	3.1491668	20	—	—
235473 2004 BY_{17}	15.5	X	2.68290	64.38616	38.52025	12.67539	0.0966151	0.17830351	3.1262914	20	—	—
235474 2004 BH_{18}	14.9	X	47.09799	68.34705	18.26397	18.64756	0.0647657	0.18195151	3.0843639	20	1 17.1	19.3
235475 2004 BK_{25}	15.2	X	20.57802	159.19801	287.53223	8.35694	0.0669579	0.17910143	3.1169991	20	—	—
235476 2004 BG_{32}	15.7	X	28.14625	100.33842	358.22886	2.72668	0.0595294	0.18153523	3.0890773	20	—	—
235477 2004 BZ_{35}	16.1	X	338.45623	123.90984	30.54407	2.95112	0.0829780	0.18072653	3.0982856	20	—	—
235478 2004 BM_{36}	15.7	X	262.87214	168.09760	85.66782	2.15419	0.1526824	0.18272504	3.0756530	20	1 20.2	20.5
235479 2004 BF_{38}	14.9	X	349.93173	317.76720	136.70783	28.26202	0.2727036	0.17443255	3.1723739	20	—	—
235480 2004 BL_{42}	16.0	X	356.86986	300.42931	138.14833	9.56461	0.2941511	0.17543778	3.1602442	20	—	—
235481 2004 BM_{45}	15.7	X	83.03177	308.10212	138.58288	4.32264	0.1506914	0.19158268	2.9801072	20	3 12.8	19.5
235482 2004 BS_{46}	14.8	X	15.56035	175.45113	302.01849	16.35682	0.1444236	0.18138567	3.0907751	20	1 4.9	18.4
235483 2004 BQ_{51}	14.9	X	193.41070	131.53195	131.32860	17.79508	0.0883282	0.17281098	3.1921882	20	—	—
235484 2004 BE_{53}	16.1	X	15.51180	20.67486	138.34777	3.07747	0.1563089	0.18876087	3.0097337	20	2 25.2	19.3
235485 2004 BD_{56}	15.3	X	296.21617	73.82274	143.85573	12.71484	0.0856076	0.18110753	3.0939387	20	1 20.6	19.8
235486 2004 BT_{64}	16.2	X	42.34050	116.33726	358.38414	2.00277	0.0416787	0.18669326	3.0319145	20	2 7.8	20.2
235487 2004 BC_{67}	15.6	X	74.60510	256.93604	124.97474	11.88651	0.2313801	0.18182558	3.0857878	20	—	—
235488 2004 BJ_{67}	15.8	X	73.96561	81.84681	347.50414	0.64248	0.0755111	0.18569224	3.0428010	20	1 28.4	19.8
235489 2004 BJ_{73}	15.2	X	258.03593	84.85848	144.93560	23.64564	0.2633085	0.17502316	3.1652332	20	—	—
235490 2004 BV_{73}	14.9	X	329.39396	207.07983	316.00498	16.28556	0.1620816	0.17895106	3.1187450	20	—	—
235491 2004 BX_{86}	15.3	X	258.46343	86.58639	140.30770	25.43177	0.2969790	0.17165180	3.2065435	20	—	—
235492 2004 BK_{89}	15.3	X	282.13995	39.64373	160.86010	15.05783	0.2214341	0.17418000	3.1754396	20	—	—
235493 2004 BP_{91}	14.7	X	319.72611	17.01230	150.71891	22.17555	0.0309532	0.17759852	3.1345593	20	—	—
235494 2004 BZ_{91}	15.3	X	52.46618	286.24019	146.45848	15.35843	0.0852399	0.18128594	3.0919086	20	1 4.3	19.4
235495 2004 BE_{92}	14.6	X	95.56874	232.54214	142.55938	27.92411	0.1542018	0.17939775	3.1135659	20	1 4.5	19.2
235496 2004 BN_{93}	15.3	X	298.42309	323.83652	212.93848	14.06629	0.2209108	0.17510928	3.1641953	20	—	—
235497 2004 BP_{94}	14.9	X	286.52304	283.80942	280.93759	24.16551	0.2568371	0.17497665	3.1657939	20	—	—
235498 2004 BH_{97}	14.8	X	342.18201	341.16540	160.79290	26.57692	0.1271331	0.17531876	3.1616742	20	—	—
235499 2004 BQ_{101}	15.0	X	297.31149	268.15476	266.14477	12.20484	0.1875413	0.17346201	3.1841960	20	—	—
235500 2004 BU_{101}	15.6	X	261.92228	62.91241	147.23045	10.79166	0.1721693	0.17388312	3.1790530	20	—	—
235501 2004 BK_{103}	14.8	X	269.50378	127.92891	104.27989	29.08180	0.2240501	0.17203808	3.2017420	20	—	—
235502 2004 BV_{105}	15.1	X	256.02601	110.18733	111.33863	16.76763	0.2008911	0.17437255	3.1731015	20	—	—
235503 2004 BL_{106}	15.3	X	336.86641	24.71007	114.03555	10.27801	0.0250316	0.17791685	3.1308193	20	—	—
235504 2004 BH_{114}	14.5	X	249.47633	105.79460	133.19337	26.27631	0.2514891	0.17150084	3.2084249	20	—	—
235505 2004 BY_{115}	15.2	X	204.17408	307.21644	340.60339	9.75704	0.0518267	0.18237662	3.0795690	20	1 8.6	19.9
235506 2004 BC_{119}	15.7	X	65.44863	97.78634	333.09033	8.17697	0.1311859	0.18463643	3.0543897	20	1 26.6	19.5
235507 2004 BO_{120}	15.4	X	329.01967	129.97985	1.80076	11.60064	0.1885465	0.17591907	3.1544775	20	—	—
235508 2004 BG_{132}	15.8	X	43.73660	92.32193	334.61522	13.93704	0.1237154	0.18066433	3.0989967	20	—	—
235509 2004 BH_{138}	16.2	X	79.96517	145.13042	289.17012	0.74421	0.0248035	0.18611220	3.0382219	20	2 4.6	20.3
235510 2004 BD_{146}	15.5	X	102.63274	317.76950	92.70225	6.85333	0.1214067	0.18839892	3.0135873	20	2 19.3	19.8
235511 2004 BP_{147}	15.3	X	31.01634	0.31719	91.41359	12.15699	0.1277216	0.18441212	3.0568660	20	—	—
235512 2004 BM_{148}	15.3	X	182.25650	169.39906	106.82355	11.01244	0.0723713	0.17608676	3.1524745	20	—	—
235513 2004 BM_{152}	15.3	X	145.91046	236.32945	102.11443	13.45822	0.0278275	0.18198387	3.0839982	20	—	—
235514 2004 BX_{152}	16.8	X	327.23540	50.50953	92.75936	2.62270	0.1354283	0.17801472	3.1296716	20	—	—
235515 2004 BL_{154}	16.4	X	24.70119	101.10934	317.91779	4.10041	0.1633396	0.17691638	3.1426114	20	—	—
235516 2004 BC_{158}	15.4	X	5.61844	247.41928	216.56887	12.72134	0.1100038	0.17682578	3.1436848	20	—	—
235517 2004 BU_{161}	15.8	X	89.59837	230.40427	107.45216	3.52884	0.1179824	0.17176529	3.2051310	20	—	—
235518 2004 CE_{2}	16.1	X	333.09710	299.06189	178.34935	2.98195	0.1579165	0.17377299	3.1803960	20	—	—
235519 2004 CA_{3}	15.8	X	21.38780	130.24232	343.52486	15.36371	0.1239031	0.18349090	3.0670888	20	1 12.3	19.7
235520 2004 CC_{3}	15.5	X	119.38340	236.83572	179.63970	10.27117	0.0907365	0.19100969	2.9860641	20	3 9.8	19.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
235521 2004 CR_{4}	16.0	X	356.57840	82.69831	47.37888	3.86926	0.1805585	0.17978560	3.1090863	20	—	—
235522 2004 CJ_{6}	15.1	X	33.57003	315.24341	112.35381	15.19633	0.1320220	0.17671451	3.1450043	20	—	—
235523 2004 CG_{20}	16.0	X	345.67592	81.74614	358.92170	3.97987	0.1876224	0.17278061	3.1925623	20	—	—
235524 2004 CR_{21}	15.6	X	14.35647	176.08653	297.58149	5.46754	0.0970858	0.17962937	3.1108887	20	—	—
235525 2004 CJ_{32}	15.8	X	25.09047	263.24917	137.85926	13.38455	0.1288054	0.17341448	3.1847778	20	—	—
235526 2004 CJ_{51}	14.9	X	284.31871	74.36215	152.88245	22.64846	0.1633101	0.18027640	3.1034408	20	1 9.7	19.9
235527 2004 CJ_{60}	15.4	X	59.16265	74.06647	351.77548	11.03700	0.2168158	0.18282576	3.0745233	20	1 22.9	19.0
235528 2004 CJ_{62}	15.8	X	301.17788	163.94136	65.82845	9.14344	0.0384381	0.18417939	3.0594406	20	2 21.1	20.2
235529 2004 CA_{63}	15.5	X	26.95287	76.82363	19.89408	10.59073	0.0782261	0.17936047	3.1139973	20	—	—
235530 2004 CP_{63}	14.6	X	347.07559	59.13164	25.24088	15.02489	0.0805666	0.16922827	3.2370850	20	—	—
235531 2004 CS_{67}	15.5	X	281.14425	163.73282	4.43809	4.44160	0.1210339	0.17153344	3.2080184	20	—	—
235532 2004 CD_{68}	15.1	X	263.30122	239.17842	354.67823	15.97603	0.1861981	0.17574343	3.1565789	20	—	—
235533 2004 CJ_{70}	15.4	X	313.25611	346.27303	126.12093	12.49506	0.1221617	0.17093945	3.2154457	20	12 31.0	19.3
235534 2004 CS_{70}	15.6	X	321.36078	100.37957	88.96741	2.29159	0.1055672	0.18140748	3.0905273	20	1 15.7	19.7
235535 2004 CU_{70}	15.7	X	335.02840	330.15657	137.70005	5.84961	0.1493512	0.17318938	3.1875368	20	—	—
235536 2004 CT_{82}	15.3	X	276.43513	41.53581	138.46192	9.62050	0.0374725	0.17235101	3.1978652	20	—	—
235537 2004 CW_{94}	15.5	X	296.56866	345.31682	182.61441	5.23565	0.1311326	0.17221615	3.1995345	20	—	—
235538 2004 CY_{101}	15.2	X	355.66231	306.65281	220.76529	8.35223	0.2366284	0.18303176	3.0722160	20	1 21.1	18.7
235539 2004 CX_{105}	15.4	X	25.87885	259.33919	197.50026	14.21741	0.1464897	0.17878752	3.1206466	20	—	—
235540 2004 CE_{108}	15.1	X	272.20481	244.30493	323.88268	8.05492	0.0417938	0.17414089	3.1759151	20	—	—
235541 2004 CS_{112}	15.6	X	320.03582	62.99719	87.32934	9.00071	0.1319977	0.17705224	3.1410035	20	—	—
235542 2004 DL_{4}	15.4	X	13.90188	338.31594	93.05658	7.53836	0.2052155	0.17477126	3.1682738	20	—	—
235543 2004 DG_{15}	15.3	X	359.83676	303.14079	141.79978	17.72957	0.1576676	0.17346474	3.1841626	20	—	—
235544 2004 DH_{15}	15.0	X	262.52605	68.03596	146.77934	22.51839	0.0432692	0.17481395	3.1677580	20	—	—
235545 2004 DR_{19}	16.0	X	276.68481	200.07731	1.71076	2.30456	0.1211414	0.17434032	3.1734926	20	—	—
235546 2004 DR_{26}	16.8	X	307.93753	41.41425	58.21650	1.65059	0.2782463	0.16888749	3.2414381	20	11 21.6	19.9
235547 2004 DA_{27}	16.1	X	302.51005	4.33915	99.47207	3.23677	0.2826854	0.16666433	3.2701996	20	11 14.9	19.5
235548 2004 DY_{28}	15.6	X	339.57815	81.48943	40.65121	2.33604	0.1023239	0.17357362	3.1828309	20	—	—
235549 2004 DV_{65}	15.5	X	234.65777	264.67750	330.77137	6.01261	0.1031597	0.17399349	3.1777084	20	—	—
235550 2004 EW_{11}	15.0	X	290.35411	223.34927	316.91410	8.51108	0.0472615	0.17389346	3.1789269	20	—	—
235551 2004 EW_{18}	15.0	X	310.79282	206.44522	54.19847	13.14127	0.2599653	0.18532336	3.0468374	20	3 13.3	19.2
235552 2004 EC_{50}	15.3	X	212.61001	85.56228	182.26595	5.17718	0.1330912	0.17113822	3.2129555	20	—	—
235553 2004 ED_{63}	15.5	X	282.77469	352.74114	193.65166	8.61883	0.0700530	0.17074740	3.2178563	20	—	—
235554 2004 EO_{85}	15.4	X	318.52524	166.89330	41.69836	6.00088	0.0966610	0.17931947	3.1144720	20	2 8.2	19.7
235555 2004 EA_{114}	15.4	X	9.61442	65.65493	9.19866	16.76695	0.1206246	0.16958593	3.2325320	20	—	—
235556 2004 FV_{21}	15.4	X	343.33005	304.67093	187.57259	22.53250	0.0817837	0.17299097	3.1899737	20	—	—
235557 2004 FW_{26}	15.2	X	162.78072	149.38290	181.32728	8.89291	0.0714003	0.17376631	3.1804775	20	1 14.5	20.1
235558 2004 FD_{51}	15.4	X	262.49445	74.99115	167.85684	10.87204	0.1055343	0.17299711	3.1898981	20	1 11.6	20.4
235559 2004 FL_{92}	15.8	X	79.12205	301.87896	180.08999	12.60628	0.0258088	0.18582340	3.0413690	20	4 3.7	19.9
235560 2004 FU_{98}	17.7	X	36.53580	307.52137	158.67718	3.40501	0.0956173	0.29925747	2.2136352	20	—	—
235561 2004 FU_{158}	16.2	X	330.57942	19.52732	159.97206	1.45455	0.1062665	0.18036990	3.1023682	20	1 15.7	20.2
235562 2004 GW_{1}	16.8	X	334.59753	143.24080	55.94925	4.81317	0.1419364	0.29977232	2.2110999	20	1 20.3	19.2
235563 2004 GE_{12}	16.0	X	285.63024	340.09929	231.51613	23.85801	0.1455783	0.29316464	2.2442005	20	—	—
235564 2004 GS_{17}	18.0	X	333.37343	280.26565	0.18733	3.69376	0.1348015	0.31350679	2.1460413	20	5 22.6	19.5
235565 2004 GU_{39}	16.9	X	320.65658	345.90412	329.37351	5.32961	0.1859414	0.31278580	2.1493379	20	6 18.3	18.5
235566 2004 GP_{73}	15.4	X	182.15432	175.94896	147.98366	3.22261	0.1592778	0.17435968	3.1732577	20	1 30.4	20.7
235567 2004 HK_{15}	14.6	X	128.93990	213.46168	228.20432	2.63057	0.1652131	0.12528422	3.9555342	20	4 30.6	20.7
235568 2004 HN_{33}	15.3	X	258.75873	85.23753	198.73445	24.92125	0.2539933	0.17430020	3.1739796	20	2 7.3	21.0
235569 2004 HC_{53}	14.9	X	276.27962	188.35048	54.10923	26.25520	0.2291600	0.17390975	3.1787285	20	1 14.6	20.3
235570 2004 HW_{55}	15.1	X	328.71560	105.19590	78.24740	16.98024	0.0357028	0.17305518	3.1891845	20	1 31.0	19.7
235571 2004 JC_{35}	16.0	X	292.55187	130.69986	206.95662	6.33562	0.2507071	0.24539291	2.5267448	20	5 19.9	19.2
235572 2004 JN_{45}	15.3	X	236.73181	239.06056	55.71654	26.93008	0.1676044	0.17219896	3.1997474	20	2 25.2	21.0
235573 2004 KB_{8}	16.8	X	310.52186	244.95372	89.07850	4.61774	0.2258147	0.31213017	2.1523466	20	6 20.4	17.9
235574 2004 KO_{8}	15.0	X	154.26817	82.41204	194.05924	9.76830	0.1568489	0.15451863	3.4393958	20	—	—
235575 2004 KP_{10}	17.2	X	305.77349	192.10533	122.29139	5.45753	0.0974982	0.30950401	2.1645047	20	6 2.3	19.2
235576 2004 LN_{18}	15.8	X	311.10586	181.06338	138.61815	12.66452	0.2277178	0.24542894	2.5264975	20	5 30.8	18.8
235577 2004 LO_{28}	17.4	X	331.90739	14.87494	191.52220	5.60093	0.1088727	0.29169720	2.2517208	20	1 30.6	20.0
235578 2004 MP_{2}	16.1	X	261.47047	120.05098	106.71985	22.50163	0.2084698	0.28540042	2.2847200	20	—	—
235579 2004 MR_{2}	15.1	X	168.01726	54.29878	288.80569	32.66724	0.2962589	0.21689889	2.7434549	20	2 1.5	20.3
235580 2004 NX_{27}	17.1	X	338.49317	3.32723	251.96944	3.56303	0.1196982	0.29976864	2.2111180	20	4 23.2	18.9
235581 2004 NB_{33}	16.5	X	184.70275	357.48911	267.21310	3.31684	0.0230690	0.20973759	2.8055534	20	—	—
235582 2004 NP_{33}	16.7	X	120.37815	185.19579	135.39545	7.03604	0.1309006	0.27077274	2.3662798	20	—	—
235583 2004 OG_{7}	17.2	X	238.92582	5.79727	299.04830	2.84257	0.1915658	0.29058595	2.2574578	20	2 13.2	20.6
235584 2004 OY_{12}	14.2	X	27.81798	162.42427	120.47454	15.24653	0.1965095	0.12528319	3.9555557	20	9 6.0	19.2
235585 2004 PY_{1}	16.8	X	168.57887	333.56391	346.86597	6.77051	0.1319586	0.27905685	2.3192145	20	—	—
235586 2004 PG_{3}	17.7	X	299.04263	204.36822	99.37537	3.40164	0.1975763	0.30010052	2.2094875	20	4 18.4	20.2
235587 2004 PD_{8}	17.0	X	188.44161	1.36493	318.96740	6.21295	0.0809210	0.28122380	2.3072855	20	1 16.4	20.1
235588 2004 PF_{8}	16.9	X	174.53804	148.31287	146.21161	6.77525	0.1853205	0.27587203	2.3370299	20	—	—
235589 2004 PC_{13}	17.1	X	62.28323	85.84408	312.28940	6.53364	0.1140066	0.27119512	2.3638221	20	—	—
235590 2004 PS_{16}	16.9	X	184.88035	355.12151	354.09183	8.08274	0.1692559	0.28653492	2.2786853	20	2 23.2	20.3
235591 2004 PR_{25}	16.4	X	297.16762	352.20429	335.52171	6.43473	0.1284357	0.23939506	2.5687742	20	5 31.4	19.6
235592 2004 PQ_{28}	17.3	X	133.60029	17.16573	332.56359	3.07031	0.2752470	0.27479081	2.3431562	20	1 16.3	20.6
235593 2004 PZ_{28}	17.0	X	132.34091	8.10172	322.21090	6.29542	0.1310417	0.27218256	2.3581016	20	—	—
235594 2004 PX_{40}	17.0	X	173.26384	227.35101	105.85478	3.37906	0.2368864	0.27809523	2.3245579	20	1 27.4	20.8
235595 2004 PZ_{44}	16.7	X	5.71430	10.86932	3.42258	6.51332	0.1298067	0.25644491	2.4536164	20	12 16.0	19.7
235596 2004 PP_{46}	17.4	X	109.16339	191.90559	168.28122	7.07764	0.1335427	0.27271046	2.3550575	20	—	—
235597 2004 PJ_{49}	16.9	X	5.17525	24.77109	14.39087	4.58990	0.2268347	0.25992560	2.4316628	20	—	—
235598 2004 PB_{50}	16.8	X	279.91717	283.97910	349.48441	6.89115	0.1515922	0.29143679	2.2530620	20	2 19.0	19.9
235599 2004 PB_{52}	16.5	X	146.31797	217.31443	133.25289	10.60521	0.1558011	0.27762766	2.3271670	20	1 15.4	19.7
235600 2004 PV_{55}	17.1	X	172.36126	206.87657	133.02071	7.44364	0.1871142	0.28017924	2.3130166	20	1 31.0	20.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
235601 2004 PW_{56}	16.9	X	170.46623	141.94801	195.03446	2.81939	0.2867046	0.28055529	2.3109492	20	1 31.2	20.9
235602 2004 PM_{59}	17.5	X	250.64170	154.57386	158.73146	4.41368	0.2233019	0.29200410	2.2501428	20	3 3.8	20.9
235603 2004 PP_{60}	17.3	X	203.22619	138.70550	170.47276	7.23666	0.1386008	0.28172535	2.3045462	20	1 18.1	20.9
235604 2004 PQ_{61}	16.6	X	185.10336	334.96014	11.53917	10.83103	0.1817869	0.28170868	2.3046372	20	2 23.4	20.3
235605 2004 PN_{64}	17.0	X	127.93400	159.07691	196.13665	1.77846	0.2275109	0.27243502	2.3566446	20	1 10.8	20.2
235606 2004 PA_{70}	17.1	X	196.66233	126.66750	196.01451	6.03462	0.1372542	0.28158269	2.3053246	20	1 28.1	20.7
235607 2004 PA_{73}	16.6	X	175.43408	324.93472	337.83209	7.44083	0.1195680	0.27720601	2.3295263	20	—	—
235608 2004 PC_{79}	16.0	X	216.42914	63.31752	282.56769	6.94880	0.1937211	0.22681673	2.6628865	20	3 16.6	20.6
235609 2004 PQ_{81}	17.2	X	272.61430	140.86371	149.77243	6.03406	0.1547756	0.29217869	2.2492464	20	3 3.2	20.1
235610 2004 PH_{92}	16.0	X	210.90642	189.64901	232.99829	12.72287	0.1088572	0.23738238	2.5832736	20	6 22.8	20.0
235611 2004 PU_{99}	17.2	X	272.21475	222.33877	102.47577	4.34829	0.2396794	0.29441635	2.2378352	20	4 8.8	20.4
235612 2004 PC_{101}	16.3	X	222.68723	335.91574	321.18582	7.88969	0.1858108	0.28242192	2.3007554	20	1 23.1	19.9
235613 2004 PO_{102}	16.9	X	218.77785	91.52239	206.48341	6.27194	0.1402125	0.28192145	2.3034775	20	1 18.6	20.5
235614 2004 PX_{103}	16.6	X	179.91620	348.01375	311.53578	5.44599	0.2477796	0.27450320	2.3447926	20	—	—
235615 2004 PS_{104}	15.4	X	148.68492	71.55187	335.58413	29.97040	0.1736424	0.21926090	2.7237167	20	3 21.5	20.2
235616 2004 PV_{105}	17.1	X	225.97012	224.56213	92.10868	3.87164	0.1814224	0.28498437	2.2869431	20	2 19.3	20.8
235617 2004 PB_{106}	16.1	X	1.75438	331.68533	46.64091	7.04751	0.1368336	0.25301488	2.4757417	20	12 15.3	18.9
235618 2004 QU_{7}	16.9	X	209.57509	43.70974	254.74105	3.68725	0.1655946	0.27718304	2.3296550	20	1 12.5	20.4
235619 2004 QF_{27}	16.7	X	0.52958	266.29696	118.90075	6.45047	0.2352483	0.25325743	2.4741608	20	—	—
235620 2004 RQ_{2}	17.7	X	207.72888	98.75601	207.75694	3.36439	0.0967294	0.28104366	2.3082713	20	1 18.7	21.1
235621 Kratochvíle	17.2	X	180.12232	337.26777	347.03491	6.26257	0.1181394	0.27897762	2.3196536	20	1 15.9	20.5
235622 2004 RU_{12}	15.7	X	211.59802	229.63851	116.24426	13.68181	0.2924126	0.22621435	2.6676117	20	3 19.4	20.7
235623 2004 RV_{12}	17.3	X	199.57784	288.93779	1.32865	3.53675	0.1912471	0.27779850	2.3262128	20	—	—
235624 2004 RS_{13}	16.4	X	64.43016	20.62196	2.35161	6.43084	0.1008609	0.26582443	2.3955549	20	—	—
235625 2004 RH_{17}	17.0	X	310.07944	291.37119	302.92664	2.11792	0.1230239	0.28763817	2.2728549	20	2 6.9	19.7
235626 2004 RO_{17}	16.8	X	196.03908	207.05688	123.45302	5.96666	0.2045539	0.28285033	2.2984316	20	2 10.2	20.6
235627 2004 RN_{20}	16.6	X	151.36429	195.68354	182.80159	6.24624	0.1413425	0.28121543	2.3073313	20	2 22.9	19.8
235628 2004 RJ_{32}	17.0	X	17.20618	47.76017	350.28189	5.29829	0.1669510	0.26083927	2.4259810	20	—	—
235629 2004 RH_{33}	15.9	X	227.71592	338.01708	7.66869	7.69809	0.2665596	0.22816693	2.6523709	20	3 26.2	20.5
235630 2004 RX_{38}	17.3	X	177.75393	224.69540	100.84822	2.74110	0.0123783	0.27912087	2.3188599	20	1 4.2	20.0
235631 2004 RK_{40}	17.1	X	263.52094	337.19993	183.80339	6.66904	0.0456977	0.26427247	2.4049244	20	—	—
235632 2004 RV_{49}	17.0	X	180.45114	170.15631	160.41598	6.74717	0.1320954	0.27962238	2.3160864	20	1 22.7	20.4
235633 2004 RF_{52}	17.2	X	105.53905	301.26164	53.05531	2.36260	0.1999092	0.26947144	2.3738916	20	—	—
235634 2004 RG_{52}	17.1	X	63.17780	237.09647	108.99597	2.41826	0.2009897	0.26117042	2.4239299	20	—	—
235635 2004 RN_{65}	16.8	X	94.21340	188.57903	165.26315	6.95995	0.1322200	0.26703253	2.3883242	20	—	—
235636 2004 RB_{68}	17.1	X	223.63820	98.68334	174.27966	6.84816	0.1190541	0.27909220	2.3190187	20	—	—
235637 2004 RP_{70}	16.7	X	264.18397	143.20454	130.17258	6.34432	0.1108060	0.28522547	2.2856541	20	2 5.3	19.8
235638 2004 RJ_{74}	16.7	X	71.07431	245.61523	173.41563	6.97947	0.0892759	0.27293619	2.3537588	20	—	—
235639 2004 RR_{75}	16.8	X	197.83611	214.96338	132.42972	2.50112	0.1536837	0.28374270	2.2936101	20	3 2.7	20.1
235640 2004 RS_{81}	17.3	X	296.47178	87.40967	321.57805	3.52493	0.1621067	0.24698818	2.5158531	20	9 23.0	19.8
235641 2004 RL_{90}	17.0	X	208.36676	353.19247	300.34652	6.00204	0.1119387	0.28052268	2.3111283	20	1 4.5	20.2
235642 2004 RM_{91}	16.6	X	129.57878	340.06824	322.07800	6.75070	0.1240361	0.26778043	2.3838751	20	—	—
235643 2004 RP_{98}	16.8	X	349.00031	230.32138	216.80915	5.61989	0.0987214	0.26433392	2.4045517	20	—	—
235644 2004 RO_{99}	17.4	X	242.97289	108.13420	186.75324	6.47697	0.1554769	0.28610238	2.2809813	20	2 5.5	20.9
235645 2004 RE_{106}	16.7	X	193.01963	353.01012	324.39959	3.49250	0.2748949	0.27999536	2.3140292	20	1 25.2	20.6
235646 2004 RD_{112}	17.1	X	262.46770	250.53949	346.51405	5.45665	0.1488819	0.28143695	2.3061204	20	—	—
235647 2004 RH_{118}	17.6	X	308.97404	39.36898	157.62045	5.48783	0.1053390	0.28014660	2.3131962	20	—	—
235648 2004 RA_{147}	16.5	X	355.47412	225.78134	172.70674	4.56780	0.0789315	0.25682523	2.4511935	20	12 26.6	19.5
235649 2004 RK_{148}	16.8	X	41.40670	323.17063	57.79765	3.40292	0.1763156	0.26103474	2.4247697	20	—	—
235650 2004 RP_{148}	16.3	X	120.41898	218.51561	153.04577	6.86141	0.1123726	0.27348995	2.3505805	20	1 5.7	19.2
235651 2004 RB_{149}	17.0	X	171.16167	272.44212	45.42390	5.00712	0.2202686	0.27599741	2.3363221	20	1 6.3	20.7
235652 2004 RW_{150}	16.4	X	141.16131	320.39214	32.57889	7.06375	0.1240306	0.27376204	2.3490228	20	1 10.7	19.6
235653 2004 RC_{155}	17.4	X	235.83098	47.19244	230.78014	5.08866	0.1539227	0.28213454	2.3023175	20	1 10.1	21.1
235654 2004 RO_{157}	16.3	X	227.40247	252.33420	199.43516	13.24010	0.1804113	0.24147724	2.5539864	20	8 8.7	20.5
235655 2004 RR_{169}	16.4	X	290.64046	199.50669	342.12758	6.88422	0.0370367	0.27176086	2.3605404	20	—	—
235656 2004 RB_{171}	16.7	X	70.86672	223.08112	169.48560	6.57673	0.1276610	0.27053198	2.3676834	20	—	—
235657 2004 RJ_{172}	16.3	X	131.29414	354.30824	0.83400	5.79155	0.2297021	0.27161961	2.3613587	20	1 16.6	19.6
235658 2004 RC_{180}	17.2	X	215.47360	90.03109	251.90027	4.05623	0.1578110	0.28720085	2.2751616	20	3 9.3	20.8
235659 2004 RE_{181}	16.7	X	86.23891	35.42960	338.36801	9.68779	0.1530981	0.26832160	2.3806687	20	—	—
235660 2004 RH_{191}	16.8	X	292.36489	33.51834	345.78971	18.22007	0.2574674	0.24077088	2.5589791	20	7 23.5	20.0
235661 2004 RB_{221}	15.6	X	244.49531	108.23310	330.52916	12.55883	0.1260438	0.23803322	2.5785626	20	8 22.1	19.0
235662 2004 RZ_{227}	16.9	X	302.00886	129.94399	356.82779	7.05705	0.0603595	0.25893397	2.4378671	20	—	—
235663 2004 RG_{228}	17.0	X	279.89443	163.54461	346.88265	4.41052	0.0275058	0.26025904	2.4295854	20	—	—
235664 2004 RY_{229}	17.5	X	51.04938	357.03658	0.22401	2.55298	0.1887708	0.25830171	2.4418437	20	—	—
235665 2004 RJ_{230}	17.4	X	262.56674	275.99094	353.42210	2.06670	0.2029081	0.28270629	2.2992123	20	1 22.6	20.8
235666 2004 RW_{231}	17.2	X	249.20818	76.51350	194.64696	1.45664	0.0986961	0.27861188	2.3216832	20	1 18.4	20.5
235667 2004 RH_{239}	17.0	X	24.49119	242.85370	182.14495	5.58230	0.0874469	0.26607429	2.3940549	20	—	—
235668 2004 RB_{244}	17.4	X	168.01678	282.09684	2.55600	6.10262	0.1063342	0.27013707	2.3699904	20	—	—
235669 2004 RT_{245}	16.3	X	187.37029	120.64901	356.23761	26.54052	0.2415899	0.23797565	2.5789784	20	8 15.3	21.1
235670 2004 RP_{250}	16.3	X	56.87603	245.28837	219.20507	19.31144	0.1683544	0.27444180	2.3451424	20	2 3.2	19.0
235671 2004 RU_{253}	15.9	X	230.92935	222.50155	238.43399	11.76678	0.1813000	0.24263045	2.5458874	20	8 22.8	19.9
235672 2004 RR_{259}	16.9	X	280.84086	283.92012	318.83729	2.17072	0.1686449	0.28364944	2.2941128	20	1 9.4	20.2
235673 2004 RO_{264}	17.7	X	253.84543	268.15581	18.95420	2.92806	0.1984679	0.28716307	2.2753611	20	2 5.9	21.2
235674 2004 RR_{279}	17.6	X	329.54480	163.93807	249.48751	1.82582	0.1786613	0.25312450	2.4750269	20	12 12.9	19.7
235675 2004 RA_{282}	17.1	X	295.48730	236.36305	344.36154	2.90829	0.0714874	0.28033451	2.3121624	20	1 10.2	20.1
235676 2004 RZ_{287}	16.5	X	98.51243	221.88892	192.75270	9.69663	0.2266999	0.20955579	2.8071757	20	2 27.2	20.5
235677 2004 RN_{305}	17.0	X	130.84336	226.90689	115.04935	3.06418	0.2206438	0.27095752	2.3652039	20	—	—
235678 2004 RY_{312}	17.0	X	211.54110	321.77457	301.80728	1.41949	0.1930623	0.27476756	2.3432884	20	—	—
235679 2004 RL_{313}	17.6	X	269.90901	272.85620	313.17805	1.75357	0.1578623	0.27718759	2.3296295	20	—	—
235680 2004 RD_{316}	17.2	X	157.27681	96.75022	238.44235	1.95460	0.1893078	0.27346871	2.3507022	20	1 11.7	20.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
235681 2004 RF_{333}	16.7	X	98.76963	208.06502	116.47662	7.61373	0.1370815	0.26414437	2.4057019	20	—	—
235682 2004 RM_{333}	17.0	X	219.76921	197.14301	94.13774	4.81429	0.1189152	0.27984988	2.3148310	20	1 13.2	20.3
235683 2004 RT_{336}	17.2	X	275.19667	75.78912	350.65760	4.71006	0.1637897	0.24300833	2.5432474	20	9 11.7	20.0
235684 2004 RO_{337}	16.8	X	252.11637	235.55874	201.01005	5.14552	0.2175418	0.23949428	2.5680647	20	8 13.6	20.5
235685 2004 SR_{12}	16.4	X	145.24228	334.14499	18.02650	8.05167	0.1398338	0.27683128	2.3316281	20	1 16.9	19.7
235686 2004 SG_{13}	17.3	X	254.59134	259.29232	42.79092	6.23607	0.1802583	0.29096050	2.2555201	20	2 28.5	20.7
235687 2004 SU_{15}	16.8	X	115.46617	283.95143	56.38734	6.19764	0.0973186	0.26856388	2.3792367	20	—	—
235688 2004 SM_{17}	16.0	X	158.53517	235.44152	143.77185	15.13658	0.1629989	0.21829893	2.7317124	20	3 13.0	20.4
235689 2004 SL_{20}	16.1	X	161.17628	171.32991	201.42013	3.41258	0.2119196	0.21598475	2.7511905	20	3 7.3	20.7
235690 2004 SR_{22}	16.4	X	188.76943	296.54083	19.69201	7.72623	0.1241639	0.27607270	2.3358973	20	1 15.9	19.9
235691 2004 SE_{24}	17.0	X	256.80890	73.89949	111.06853	2.27272	0.1281625	0.26170013	2.4206579	20	—	—
235692 2004 SP_{25}	16.8	X	190.79961	255.66816	159.70459	13.98683	0.3629464	0.22397947	2.6853274	20	5 23.4	22.2
235693 2004 SL_{31}	16.5	X	144.68940	179.25108	184.57064	6.14728	0.1240155	0.27587948	2.3369878	20	1 25.9	19.7
235694 2004 SB_{32}	16.3	X	249.79541	216.82721	19.30008	7.46447	0.0656417	0.27257983	2.3558099	20	—	—
235695 2004 SR_{32}	16.9	X	125.49784	295.28410	51.05218	3.08291	0.2365086	0.27044582	2.3681863	20	—	—
235696 2004 SO_{39}	16.5	X	272.74315	216.84303	191.67333	7.42194	0.1540485	0.23935061	2.5690922	20	8 12.2	19.8
235697 2004 SP_{51}	17.1	X	190.17053	295.67087	19.72051	2.17688	0.2246583	0.27853517	2.3221095	20	1 19.2	21.0
235698 2004 TY_{4}	16.1	X	145.74623	326.19845	234.35365	8.41297	0.0710710	0.24281380	2.5446055	20	10 10.0	19.8
235699 2004 TP_{5}	17.0	X	141.64362	185.97669	177.06578	4.69907	0.0822848	0.27516137	2.3410521	20	1 16.6	20.0
235700 2004 TR_{13}	18.5	X	184.34554	249.96900	12.16059	17.84517	0.7294936	0.34385715	2.0178274	20	—	—
235701 2004 TO_{32}	17.1	X	323.34981	294.63192	352.39342	4.86753	0.2273080	0.29647813	2.2274482	20	4 25.7	19.0
235702 2004 TB_{44}	16.9	X	224.87078	94.25481	7.47536	5.19189	0.2462126	0.23685095	2.5871362	20	8 17.7	21.1
235703 2004 TC_{45}	17.6	X	267.84760	61.98112	13.73611	5.94188	0.1351165	0.24224529	2.5485852	20	9 19.2	20.5
235704 2004 TN_{48}	16.0	X	224.66745	245.00358	199.02752	9.31852	0.0689331	0.23697486	2.5862343	20	8 8.8	19.9
235705 2004 TT_{49}	16.0	X	142.85224	88.71915	35.42157	18.29932	0.1080324	0.22819100	2.6521844	20	7 1.4	20.4
235706 2004 TW_{50}	17.0	X	287.46613	68.00049	354.31135	2.11377	0.1308336	0.24315099	2.5422525	20	10 1.0	19.7
235707 2004 TE_{55}	16.7	X	192.98287	228.39244	53.81901	4.75154	0.1222445	0.26824107	2.3811452	20	—	—
235708 2004 TD_{56}	16.4	X	236.06791	239.67451	183.48637	2.74883	0.1411932	0.23363102	2.6108528	20	7 18.8	20.3
235709 2004 TV_{59}	16.2	X	159.86587	6.00845	26.90641	6.71526	0.0777223	0.21989209	2.7185019	20	3 24.5	20.1
235710 2004 TQ_{66}	16.8	X	119.29727	208.84420	153.88528	8.23972	0.1417107	0.26970664	2.3725113	20	—	—
235711 2004 TL_{69}	16.3	X	315.49447	25.96429	38.55290	7.21315	0.0819282	0.25203220	2.4821729	20	11 26.8	19.1
235712 2004 TH_{96}	16.8	X	196.38144	172.02095	190.11448	4.87143	0.0750959	0.22036305	2.7146272	20	3 23.5	20.7
235713 2004 TZ_{102}	16.2	X	266.19799	79.77976	297.68018	7.72083	0.1390204	0.23227814	2.6209807	20	6 25.4	19.7
235714 2004 TD_{112}	15.4	X	232.84759	86.59003	245.61752	21.15327	0.0851043	0.22185247	2.7024637	20	3 16.7	19.9
235715 2004 TG_{122}	16.6	X	150.37543	286.45913	31.44944	7.88983	0.1346312	0.26999633	2.3708139	20	—	—
235716 2004 TK_{124}	16.6	X	329.28726	17.42370	34.98326	6.94517	0.1227288	0.25291800	2.4763739	20	12 5.3	19.2
235717 2004 TQ_{127}	17.5	X	198.90127	135.53306	180.24378	1.91868	0.2072306	0.27959796	2.3162213	20	1 25.0	21.2
235718 2004 TH_{129}	16.1	X	110.23474	19.76457	53.05890	8.59895	0.1619566	0.21561971	2.7542947	20	3 31.1	20.1
235719 2004 TJ_{142}	16.7	X	183.33586	333.64340	288.43640	2.49886	0.0986962	0.26484725	2.4014436	20	—	—
235720 2004 TS_{160}	16.3	X	200.90611	80.88734	26.19578	5.94331	0.1072099	0.23486406	2.6017068	20	8 13.0	20.2
235721 2004 TH_{161}	16.8	X	143.17054	263.86593	217.83837	6.64895	0.2499563	0.22406251	2.6846639	20	7 4.6	21.5
235722 2004 TJ_{164}	16.7	X	234.36121	340.25486	80.32084	2.63519	0.1135503	0.23356293	2.6113602	20	7 17.6	20.5
235723 2004 TT_{168}	16.5	X	161.97332	181.18767	138.69815	2.68792	0.2293988	0.27325283	2.3519401	20	1 1.1	20.2
235724 2004 TR_{169}	16.8	X	114.08340	280.20404	89.21560	3.62511	0.1956553	0.27054178	2.3676263	20	1 8.4	19.6
235725 2004 TF_{170}	16.2	X	319.64862	32.22896	77.24332	5.91987	0.1450552	0.25693328	2.4505062	20	—	—
235726 2004 TX_{171}	16.2	X	268.58452	64.36925	350.85432	9.08135	0.1837632	0.23700231	2.5860346	20	8 15.3	19.5
235727 2004 TL_{175}	16.6	X	291.11091	125.09381	163.99626	3.97584	0.1878008	0.29008931	2.2600336	20	3 18.7	19.5
235728 2004 TB_{188}	17.2	X	234.16975	125.56391	315.72244	0.85185	0.1679659	0.23811229	2.5779917	20	8 7.4	21.0
235729 2004 TQ_{205}	16.4	X	161.41666	299.32139	37.35377	5.90335	0.2761870	0.27356580	2.3501460	20	1 26.5	20.3
235730 2004 TY_{206}	16.7	X	279.00380	351.17940	50.67116	5.14861	0.2396991	0.23782828	2.5800437	20	8 1.8	19.8
235731 2004 TK_{220}	16.6	X	168.58470	160.86371	144.94942	13.83401	0.2110572	0.27312920	2.3526499	20	—	—
235732 2004 TC_{229}	17.5	X	269.92627	161.63439	22.81521	2.91003	0.0328480	0.26450432	2.4035189	20	—	—
235733 2004 TR_{237}	16.5	X	177.52090	138.04830	185.91206	3.24523	0.2043334	0.27527635	2.3404001	20	1 17.1	20.2
235734 2004 TJ_{244}	16.4	X	295.13481	297.56175	222.98330	5.96166	0.0622563	0.26495993	2.4007628	20	—	—
235735 2004 TU_{244}	16.9	X	303.65061	119.46833	268.59167	1.83788	0.1042018	0.24368727	2.5385213	20	9 11.9	19.6
235736 2004 TP_{250}	15.9	X	98.81078	5.39705	86.63766	18.51530	0.2205111	0.21449937	2.7638769	20	4 24.6	20.2
235737 2004 TH_{264}	17.3	X	152.90440	341.91401	328.68752	0.96972	0.1935962	0.26845672	2.3798698	20	—	—
235738 2004 TC_{265}	16.9	X	301.38903	94.64464	278.74890	0.60554	0.1401547	0.23925329	2.5697888	20	8 12.8	19.6
235739 2004 TF_{277}	17.1	X	175.23906	50.85632	206.09068	4.59175	0.0673934	0.25845311	2.4408900	20	—	—
235740 2004 TO_{283}	16.6	X	177.84688	74.98875	193.16251	6.03319	0.1003793	0.26684139	2.3894645	20	—	—
235741 2004 TH_{286}	16.9	X	210.46590	252.29435	209.77087	2.68695	0.0682090	0.23612137	2.5924627	20	8 17.4	20.6
235742 2004 TH_{297}	16.3	X	265.13996	32.09569	355.31365	7.79771	0.1881710	0.23355696	2.6114047	20	6 30.8	20.0
235743 2004 TU_{303}	17.2	X	266.16276	297.72633	347.73192	2.81730	0.1597523	0.28690462	2.2767273	20	2 18.4	20.5
235744 2004 TW_{306}	16.1	X	88.17643	187.81087	256.61921	7.24899	0.1643923	0.21359337	2.7716871	20	3 11.5	20.0
235745 2004 TS_{308}	16.4	X	98.79181	102.16580	0.00965	4.85751	0.0727641	0.21936836	2.7228271	20	4 6.3	20.1
235746 2004 TC_{312}	16.4	X	196.09830	194.98076	4.01508	6.12131	0.0857049	0.25665211	2.4522956	20	12 6.4	19.9
235747 2004 TY_{332}	17.2	X	272.81724	23.61285	34.13791	4.21675	0.1193125	0.23953928	2.5677430	20	9 4.5	20.3
235748 2004 TQ_{340}	16.2	X	225.45756	250.12693	152.42042	14.92053	0.2144175	0.22962278	2.6411480	20	6 7.1	20.8
235749 2004 TT_{348}	16.9	X	219.10269	158.35501	91.88134	2.21551	0.1565525	0.26483098	2.4015421	20	—	—
235750 2004 TU_{353}	16.5	X	216.77589	82.97441	70.73272	5.60676	0.1931904	0.24246029	2.5470784	20	10 20.9	20.2
235751 2004 TM_{366}	16.1	X	77.95930	63.57131	250.50917	4.82498	0.1357634	0.25259963	2.4784543	20	12 27.0	19.6
235752 2004 TN_{366}	17.0	X	205.00857	41.29650	277.78943	2.33725	0.2120076	0.27854094	2.3220774	20	2 3.1	20.7
235753 2004 UZ_{2}	16.6	X	223.18497	278.45033	167.92902	12.94460	0.2476251	0.23431331	2.6057820	20	7 23.9	21.0
235754 2004 UP_{3}	16.5	X	311.75624	334.72182	45.28442	6.01787	0.2713925	0.24070509	2.5594454	20	8 29.9	18.5
235755 2004 US_{8}	15.5	X	273.16115	341.91425	31.40430	13.03643	0.1581608	0.23144669	2.6272540	20	6 25.3	19.2
235756 2004 VC	18.7	X	30.85253	94.19644	194.16831	39.14476	0.2588901	0.81686717	1.1333614	20	—	—
235757 2004 VN_{2}	17.1	X	249.18593	204.82770	222.93728	1.81455	0.1478955	0.23702745	2.5858518	20	8 8.9	20.8
235758 2004 VX_{3}	15.7	X	87.04329	26.48805	60.52049	6.69810	0.1156435	0.21163402	2.7887680	20	3 13.8	19.4
235759 2004 VY_{3}	16.8	X	151.40624	268.75618	58.97933	6.44983	0.1883649	0.27003131	2.3706092	20	—	—
235760 2004 VE_{5}	16.9	X	256.56487	56.02310	336.99816	3.61451	0.2321534	0.23356562	2.6113401	20	6 21.3	20.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
235761 2004 VL_7	16.1	X	223.26336	305.20972	119.56247	3.81719	0.1350289	0.23091736	2.6312674	20	7 7.6	20.1
235762 2004 VP_7	16.8	X	233.31661	278.71866	120.80105	3.02233	0.2158288	0.22997889	2.6384208	20	6 8.3	21.1
235763 2004 VS_8	16.6	X	296.56351	250.89421	153.25951	4.35303	0.1135433	0.24084255	2.5584714	20	9 23.7	19.4
235764 2004 VN_{11}	17.0	X	309.37598	305.46188	109.28538	2.46069	0.1415681	0.24592064	2.5231286	20	10 31.6	19.3
235765 2004 VW_{11}	16.6	X	249.06553	80.65998	356.50326	9.11839	0.1873496	0.23674167	2.5879323	20	8 19.3	20.2
235766 2004 VV_{15}	15.8	X	209.21310	287.63605	143.85639	14.32205	0.2083955	0.22861132	2.6489325	20	6 27.5	20.4
235767 2004 VK_{17}	17.2	X	228.79178	219.62408	209.88024	1.63981	0.2229262	0.23257947	2.6187164	20	7 11.1	21.2
235768 2004 VV_{20}	16.8	X	160.60293	250.33751	45.94290	5.97803	0.1373494	0.26516122	2.3995476	20	—	—
235769 2004 VJ_{21}	16.6	X	182.49301	334.58822	86.10074	3.23197	0.1716163	0.22331467	2.6906541	20	5 22.3	20.9
235770 2004 VX_{22}	16.6	X	194.26016	193.43783	249.63787	1.81766	0.2250034	0.22705510	2.6610225	20	6 27.9	21.2
235771 2004 VC_{23}	16.3	X	252.54862	168.54035	232.16175	3.06038	0.2873387	0.23235134	2.6204302	20	6 20.6	20.3
235772 2004 VZ_{23}	16.5	X	230.07912	14.87769	60.90549	4.15614	0.1852505	0.23500010	2.6007026	20	7 25.6	20.5
235773 2004 VD_{24}	16.0	X	286.61620	281.04706	129.56449	8.33496	0.1883035	0.23991091	2.5650906	20	9 5.5	18.8
235774 2004 VS_{29}	17.0	X	203.16912	296.61687	205.61865	3.77655	0.1650033	0.23897651	2.5717726	20	9 22.1	20.9
235775 2004 VZ_{31}	17.1	X	61.72229	170.26620	167.54029	2.85909	0.1955588	0.25490056	2.4635167	20	—	—
235776 2004 VR_{42}	16.1	X	62.93808	244.20795	63.39290	4.16897	0.0621892	0.24788755	2.5097641	20	11 23.0	19.4
235777 2004 VU_{47}	16.8	X	268.91391	285.64897	121.53133	3.78328	0.1287533	0.23585094	2.5944440	20	8 11.3	19.9
235778 2004 VA_{74}	16.9	X	213.86271	241.11611	184.66202	4.59109	0.2665135	0.22910753	2.6451063	20	6 20.6	21.5
235779 2004 VO_{75}	16.6	X	174.33615	353.44569	356.67579	6.74422	0.2869530	0.27734743	2.3287344	20	2 21.3	20.6
235780 2004 VJ_{86}	17.2	X	202.05098	40.65539	80.16163	2.72169	0.0994472	0.23450297	2.6043768	20	8 31.7	20.9
235781 2004 VT_{88}	16.9	X	198.45345	82.40102	12.69280	5.27905	0.1206229	0.23073677	2.6326402	20	7 23.5	20.9
235782 2004 WH_5	15.4	X	164.35512	199.42124	247.11315	16.51389	0.1320387	0.22513111	2.6761618	20	6 5.9	19.6
235783 2004 WT_7	16.7	X	175.63465	80.28222	62.29781	5.44663	0.1285952	0.23438422	2.6052564	20	8 31.6	20.8
235784 2004 WU_9	15.5	X	305.20594	258.45843	128.26593	12.04474	0.0894197	0.23843051	2.5756973	20	9 18.7	18.6
235785 2004 WV_{10}	16.6	X	247.57988	52.28403	356.56889	3.83621	0.2567425	0.23143069	2.6273751	20	6 29.9	20.8
235786 2004 XB_2	16.1	X	162.86988	39.03970	29.94628	9.61290	0.1976151	0.21929648	2.7234220	20	5 13.9	20.7
235787 2004 XZ_2	16.1	X	109.97971	38.40014	83.74950	9.90191	0.2354739	0.21377623	2.7701063	20	6 6.4	20.5
235788 2004 XP_6	16.3	X	242.77604	349.87619	55.11512	6.74234	0.2568871	0.23031911	2.6358219	20	6 19.7	20.6
235789 2004 XY_9	16.0	X	56.90464	273.13169	72.44929	2.46062	0.1790077	0.25229741	2.4804331	20	—	—
235790 2004 XS_{11}	16.4	X	203.71873	278.42499	185.46880	12.49021	0.2234377	0.23058952	2.6337609	20	7 29.6	21.1
235791 2004 XP_{12}	15.6	X	343.46485	187.70018	253.35241	2.90114	0.2137362	0.18882520	3.0090500	20	—	—
235792 2004 XS_{12}	16.2	X	190.81977	187.95512	241.58985	3.16914	0.2604468	0.22332435	2.6905764	20	6 7.9	21.0
235793 2004 XZ_{13}	16.4	X	147.62201	52.03158	63.64005	5.92991	0.1138504	0.21941969	2.7224024	20	6 25.4	20.6
235794 2004 XD_{14}	16.3	X	181.18547	130.76084	301.02035	8.23341	0.0801230	0.22036308	2.7146270	20	6 3.3	20.4
235795 2004 XP_{18}	16.0	X	341.72865	241.43181	139.79365	0.82771	0.1518209	0.24455766	2.5324947	20	11 14.4	18.5
235796 2004 XH_{19}	15.8	X	155.35959	34.32093	81.00013	14.37397	0.1322712	0.22363554	2.6880798	20	7 3.7	20.0
235797 2004 XS_{22}	16.6	X	260.12319	261.40730	114.18527	2.99143	0.0972334	0.22821493	2.6519989	20	6 20.7	20.0
235798 2004 XJ_{23}	16.0	X	262.03351	311.81791	86.14833	8.60275	0.2145264	0.23083007	2.6319308	20	7 6.5	19.7
235799 2004 XN_{23}	15.5	X	118.64093	18.99579	111.68080	14.82731	0.1582639	0.21369647	2.7707956	20	6 18.9	19.9
235800 2004 XX_{24}	16.1	X	186.14509	251.44768	211.17002	2.29329	0.0417856	0.22641106	2.6660664	20	7 21.0	19.7
235801 2004 XT_{25}	15.7	X	81.65380	199.39655	306.78351	6.94032	0.1585206	0.21167628	2.7883969	20	5 24.7	19.5
235802 2004 XY_{33}	16.0	X	137.11126	214.12159	80.51351	16.31204	0.1239197	0.25528783	2.4610247	20	—	—
235803 2004 XE_{39}	16.4	X	270.17108	228.36684	138.59674	13.96917	0.2051222	0.23130631	2.6283169	20	6 8.5	20.4
235804 2004 XE_{43}	16.6	X	205.62362	244.60160	248.38065	3.04296	0.1562320	0.23583321	2.5945741	20	9 12.4	20.6
235805 2004 XH_{43}	15.2	X	327.17663	29.70682	75.40196	13.09326	0.0781276	0.19072027	2.9890842	20	—	—
235806 2004 XP_{44}	16.7	X	252.35241	359.44161	54.64357	3.79970	0.2027149	0.23329169	2.6133838	20	7 19.0	20.5
235807 2004 XH_{46}	17.1	X	184.87311	247.99090	179.04817	2.62579	0.3159333	0.22279257	2.6948561	20	5 31.4	22.0
235808 2004 XY_{55}	16.5	X	117.14612	143.23028	63.19139	5.33607	0.0958765	0.23034145	2.6356515	20	9 20.5	20.4
235809 2004 XJ_{58}	16.8	X	162.69434	56.11825	40.00026	5.49316	0.1308258	0.21947418	2.7219517	20	6 16.1	21.1
235810 2004 XK_{58}	16.4	X	182.49372	57.12829	16.29443	4.95233	0.0959418	0.21963365	2.7206340	20	6 6.7	20.6
235811 2004 XT_{58}	16.0	X	184.10241	208.54702	30.59701	4.73962	0.1978509	0.24471859	2.5313843	20	12 30.9	20.0
235812 2004 XW_{60}	16.7	X	107.46788	208.45914	285.28800	4.38249	0.2254982	0.21391507	2.7689076	20	6 17.3	21.0
235813 2004 XA_{66}	16.2	X	349.45462	150.60857	203.24236	2.84066	0.1981164	0.23967146	2.5667988	20	10 23.5	18.4
235814 2004 XZ_{75}	16.4	X	186.84500	44.29618	66.19916	6.34982	0.0938372	0.22894180	2.6463827	20	8 1.7	20.4
235815 2004 XS_{82}	16.6	X	303.01959	53.79607	317.27530	1.60250	0.0545807	0.23266309	2.6180889	20	8 22.2	19.7
235816 2004 XB_{85}	16.4	X	188.26036	69.48575	340.80564	1.99690	0.1893348	0.21919007	2.7243034	20	5 13.4	20.9
235817 2004 XN_{86}	15.2	X	37.28510	292.97624	108.58248	17.58597	0.1849779	0.19012177	2.9953540	20	—	—
235818 2004 XB_{89}	16.0	X	83.93999	328.53609	294.32066	7.99869	0.1353118	0.23919388	2.5702144	20	10 24.7	20.0
235819 2004 XA_{92}	16.9	X	154.93067	265.29938	282.60773	1.44438	0.1369907	0.23463498	2.6033998	20	10 3.7	21.0
235820 2004 XP_{92}	15.8	X	302.19814	311.19028	51.89030	12.35494	0.0592655	0.23312014	2.6146658	20	8 15.4	19.3
235821 2004 XD_{97}	15.1	X	148.03646	160.57727	93.78838	16.78963	0.0378119	0.17989370	3.1078406	20	12 9.9	19.7
235822 2004 XJ_{102}	15.8	X	111.02584	126.38496	306.29719	11.88715	0.1804182	0.21198889	2.7856549	20	3 24.3	20.1
235823 2004 XH_{111}	16.1	X	286.07692	50.04269	339.80461	3.52271	0.1678499	0.23597757	2.5935158	20	8 6.7	19.2
235824 2004 XL_{124}	15.6	X	150.32637	46.41510	11.63411	15.58056	0.1581430	0.21230249	2.7829111	20	4 16.2	20.1
235825 2004 XK_{127}	16.7	X	358.71974	305.77025	50.37865	1.03226	0.1847953	0.24385798	2.5373365	20	11 13.9	19.2
235826 2004 XU_{130}	15.4	X	203.64906	78.93080	18.83609	22.15717	0.0480579	0.22758401	2.6568980	20	8 17.7	19.6
235827 2004 XL_{137}	15.8	X	222.71151	335.10932	70.15085	13.18477	0.0947347	0.22241968	2.6978672	20	6 14.4	19.7
235828 2004 XZ_{141}	16.7	X	202.38984	61.18036	13.33626	3.11483	0.0741851	0.22318867	2.6916667	20	7 2.1	20.6
235829 2004 XE_{144}	15.7	X	269.89193	263.74255	133.45704	14.38899	0.1172834	0.23375921	2.6098981	20	7 30.7	18.9
235830 2004 XB_{152}	17.0	X	281.40632	3.21404	32.47690	4.85003	0.0847822	0.23454741	2.6040479	20	8 22.6	20.2
235831 2004 XR_{160}	15.6	X	105.43239	259.91174	304.93100	13.18847	0.0783679	0.22610749	2.6684521	20	8 26.7	19.6
235832 2004 XQ_{163}	15.3	X	211.15015	222.76963	303.18730	8.39109	0.0437586	0.17509407	3.1643785	20	10 30.0	20.0
235833 2004 XS_{164}	15.9	X	238.52218	101.91397	309.06960	12.83292	0.1896652	0.23113892	2.6295857	20	7 1.9	19.9
235834 2004 XX_{164}	16.6	X	185.61260	73.49454	16.75225	13.33174	0.2361879	0.22677152	2.6632405	20	6 30.5	21.5
235835 2004 XH_{184}	16.3	X	340.47030	88.88845	272.18096	3.36974	0.0577986	0.23928439	2.5695662	20	10 4.9	19.4
235836 2004 XP_{191}	15.7	X	251.08309	274.13192	118.65470	12.41600	0.0791145	0.22365952	2.6878877	20	7 4.8	19.4
235837 2004 YP_1	15.6	X	153.42200	301.64879	133.68032	20.08687	0.1639672	0.21439760	2.7647515	20	5 20.1	20.5
235838 2004 YF_2	16.4	X	250.62273	66.16621	320.49621	2.68554	0.1726759	0.22808008	2.6530442	20	6 13.5	20.2
235839 2004 YH_{11}	16.7	X	140.73217	32.75154	91.16750	3.12079	0.0822411	0.22432242	2.6825897	20	6 26.9	20.6
235840 2004 YP_{11}	16.4	X	339.12084	35.42793	70.78611	1.31442	0.1788258	0.18795476	3.0183331	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
235841 2004 YC_{12}	16.4	X	173.24923	153.68211	305.44757	4.02345	0.0714834	0.22039640	2.7143534	20	7 1.0	20.3
235842 2004 YU_{23}	14.8	X	163.02419	108.68464	122.91440	11.94795	0.0642760	0.17409927	3.1764212	20	11 28.9	19.7
235843 2004 YD_{36}	16.6	X	224.46438	318.59802	86.04054	3.08352	0.0875098	0.22161032	2.7044320	20	6 16.9	20.5
235844 2004 YH_{36}	16.4	X	165.53700	350.22761	103.22116	2.97116	0.0604788	0.21524112	2.7575234	20	6 14.3	20.4
235845 2005 AL_{1}	15.7	X	97.45869	82.02721	101.61380	14.03516	0.1440288	0.21954916	2.7213320	20	8 2.6	19.7
235846 2005 AY_{6}	15.7	X	127.81736	140.08752	344.70873	8.08377	0.0827397	0.21496739	2.7598639	20	6 12.4	19.8
235847 2005 AX_{7}	15.3	X	27.77235	317.65045	323.09610	12.07853	0.0926507	0.22372517	2.6873619	20	8 28.8	18.7
235848 2005 AC_{8}	16.1	X	106.64958	99.04828	37.83070	4.44712	0.0948408	0.21230579	2.7828822	20	6 4.5	20.0
235849 2005 AE_{15}	17.0	X	180.27397	101.82450	314.67119	1.23829	0.2010263	0.21805338	2.7337628	20	5 14.6	21.6
235850 2005 AN_{16}	16.0	X	354.17229	180.46856	282.78110	5.13197	0.1508374	0.19068308	2.9894728	20	—	—
235851 2005 AF_{25}	17.3	X	144.79252	230.67612	206.10044	4.21518	0.2598711	0.21292257	2.7775055	20	5 13.7	22.0
235852 2005 AX_{27}	16.4	X	112.59245	323.58325	158.25941	4.94032	0.0610256	0.21356599	2.7719240	20	5 20.4	20.4
235853 2005 AJ_{28}	15.6	X	151.99152	281.17526	133.79246	24.49763	0.2947146	0.21299581	2.7768687	20	5 2.9	21.0
235854 2005 AQ_{29}	15.8	X	36.95732	263.11680	296.82779	11.64397	0.1341172	0.21195870	2.7859194	20	5 26.3	19.2
235855 2005 AO_{30}	15.6	X	105.44208	109.00427	29.94873	8.72874	0.1496881	0.21235616	2.7824421	20	6 12.3	19.8
235856 2005 AV_{33}	15.1	X	358.08383	303.74946	119.31593	23.09256	0.0195078	0.18326105	3.0696529	20	—	—
235857 2005 AP_{35}	15.7	X	217.60547	325.15023	132.50871	14.51056	0.0961993	0.22819844	2.6521267	20	8 18.4	19.6
235858 2005 AW_{37}	16.6	X	201.32004	52.75134	5.34169	4.65790	0.0607723	0.21732597	2.7398595	20	6 9.0	20.7
235859 2005 AE_{39}	16.0	X	82.16966	220.27258	334.60844	4.22037	0.0933546	0.21791126	2.7349513	20	7 22.2	19.6
235860 2005 AD_{42}	15.7	X	284.87409	317.74823	61.10073	12.90137	0.2093489	0.22959884	2.6413316	20	7 12.7	19.1
235861 2005 AV_{42}	16.3	X	225.11526	93.17966	345.48738	2.85619	0.0941052	0.22612037	2.6683508	20	8 1.9	20.0
235862 2005 AU_{44}	15.9	X	346.43544	190.56031	108.78160	10.39865	0.1184591	0.21966719	2.7203571	20	7 18.1	18.9
235863 2005 AY_{53}	15.1	X	226.46503	281.85167	295.92153	9.69762	0.1752456	0.17943435	3.1131425	20	—	—
235864 2005 AR_{57}	15.9	X	88.44139	153.51084	12.37111	12.42287	0.1437035	0.21384353	2.7695251	20	6 28.4	20.1
235865 2005 AM_{58}	15.8	X	152.98989	29.55914	108.43006	14.89097	0.0685264	0.22246423	2.6975071	20	7 29.5	19.8
235866 2005 AC_{61}	15.9	X	12.48579	323.88399	317.33245	11.05471	0.1790013	0.22383720	2.6864651	20	8 15.4	18.6
235867 2005 AS_{77}	15.6	X	182.83944	85.19574	115.30026	10.78085	0.0328084	0.17217275	3.2000722	20	11 15.6	20.4
235868 2005 AP_{80}	15.8	X	295.09622	19.61893	107.80458	5.88519	0.0925222	0.18080371	3.0974038	20	12 26.7	19.8
235869 2005 AH_{82}	16.4	X	168.80745	77.95078	150.38294	6.57896	0.0864274	0.23789319	2.5795743	20	12 10.5	20.2
235870 2005 BY_{6}	16.3	X	179.40745	76.31870	20.93908	4.79975	0.1071478	0.22100050	2.7094047	20	7 5.5	20.5
235871 2005 BA_{10}	15.4	X	298.80147	247.62980	97.77374	15.07602	0.0851370	0.22302307	2.6929990	20	7 5.7	18.7
235872 2005 BZ_{10}	15.8	X	251.25213	256.54782	122.71646	11.02687	0.1565181	0.22026364	2.7154439	20	6 8.2	20.0
235873 2005 BA_{13}	16.4	X	83.62582	224.45132	305.09064	6.82483	0.1560462	0.21355806	2.7719927	20	6 28.8	20.3
235874 2005 BZ_{14}	16.1	X	22.63197	355.97596	227.77502	3.42483	0.1422868	0.21196659	2.7858503	20	6 6.2	19.1
235875 2005 BK_{16}	15.9	X	133.25735	97.80343	0.48060	6.32941	0.0431553	0.21393548	2.7687314	20	5 9.6	19.9
235876 2005 BQ_{25}	14.7	X	207.59926	249.71027	312.35046	12.43115	0.1431080	0.17428766	3.1741318	20	11 29.3	19.8
235877 2005 BW_{27}	16.3	X	59.93610	188.72977	49.22135	2.59222	0.0268616	0.22191090	2.7019893	20	8 9.9	19.8
235878 2005 BR_{29}	15.7	X	342.73676	34.95030	86.95724	14.10728	0.0958819	0.19000880	2.9965411	20	—	—
235879 2005 BX_{34}	16.6	X	352.41327	267.95572	117.16076	3.05789	0.2054250	0.17814273	3.1281722	20	11 24.1	20.0
235880 2005 BM_{48}	15.9	X	77.46149	52.97986	150.08282	4.62760	0.0325258	0.21718830	2.7410172	20	7 16.3	19.6
235881 2005 CL_{2}	16.2	X	203.72667	67.21877	355.95689	4.17937	0.0801170	0.21725153	2.7404854	20	6 17.8	20.3
235882 2005 CM_{5}	16.4	X	129.39259	358.66686	120.25311	2.25950	0.1899780	0.21184418	2.7869234	20	6 16.4	20.9
235883 2005 CV_{8}	16.6	X	145.90544	2.91237	78.51424	5.44912	0.1851087	0.21265565	2.7798291	20	5 16.3	21.1
235884 2005 CC_{9}	15.5	X	308.03113	346.09061	117.84035	8.56725	0.0850330	0.17934855	3.1141352	20	12 17.1	19.4
235885 2005 CK_{10}	15.7	X	318.84219	357.49041	344.22618	12.55406	0.1144467	0.22097239	2.7096345	20	8 2.7	18.9
235886 2005 CR_{23}	14.2	X	68.22558	16.85335	301.87699	26.69840	0.1916051	0.17455999	3.1708296	20	12 15.7	19.4
235887 2005 CB_{30}	16.1	X	183.74546	65.05955	11.88774	4.04364	0.0459107	0.21428871	2.7656880	20	6 13.6	20.1
235888 2005 CM_{36}	16.7	X	226.69365	21.39789	68.13712	1.95594	0.0799112	0.22563198	2.6721999	20	8 20.1	20.3
235889 2005 CU_{43}	16.0	X	24.51005	98.03632	145.49291	8.27805	0.2470949	0.21046204	2.7991115	20	7 22.6	18.7
235890 2005 CG_{45}	16.1	X	40.65362	75.83785	151.34484	8.55168	0.1189566	0.21368091	2.7709301	20	7 9.1	19.6
235891 2005 CA_{49}	16.5	X	160.88267	235.46393	204.73913	1.33496	0.2020408	0.21422780	2.7662123	20	5 28.0	21.2
235892 2005 CB_{57}	15.4	X	129.18058	0.26962	286.66916	6.54685	0.0251774	0.17924506	3.1153338	20	12 25.9	20.0
235893 2005 CJ_{59}	15.6	X	255.51524	330.00159	181.64154	7.25865	0.1212583	0.17574950	3.1565062	20	11 28.3	20.0
235894 2005 CD_{62}	15.5	X	272.87301	39.79549	104.91640	5.21431	0.1296585	0.17677691	3.1442642	20	12 11.1	19.5
235895 2005 CR_{63}	16.5	X	113.75630	330.44335	182.13015	4.05917	0.1431173	0.21423125	2.7661825	20	7 8.8	20.8
235896 2005 CZ_{63}	15.4	X	239.97474	198.78424	344.37818	15.96649	0.1477717	0.17621285	3.1509705	20	12 11.3	20.2
235897 2005 CW_{68}	16.3	X	128.14891	319.48775	133.75731	4.96858	0.1701312	0.21013544	2.8020110	20	5 13.9	20.7
235898 2005 CL_{69}	16.0	X	0.93082	83.03549	177.16982	4.70244	0.0108635	0.21346320	2.7728138	20	6 15.7	19.7
235899 2005 CY_{73}	16.8	X	102.17896	73.35389	16.43211	1.89594	0.0640359	0.20265341	2.8705609	20	3 26.7	20.7
235900 2005 CY_{75}	16.3	X	163.77472	276.37070	158.90809	7.99380	0.2105750	0.21458609	2.7631322	20	5 26.2	21.1
235901 2005 CV_{80}	15.3	X	84.15553	77.06098	102.70170	13.87754	0.0982514	0.21336097	2.7736994	20	7 4.2	19.0
235902 2005 DC	15.3	X	297.99950	120.45947	349.86274	16.25129	0.2045518	0.17806698	3.1290593	20	11 22.5	19.2
235903 2005 EG	14.9	X	232.74005	120.77192	79.40578	23.54575	0.2124811	0.17558598	3.1584657	20	12 15.7	19.7
235904 2005 EZ_{3}	16.3	X	240.09928	212.31533	142.13461	6.54466	0.0452798	0.20967596	2.8061031	20	5 7.8	20.3
235905 2005 EV_{9}	15.9	X	295.34248	306.39530	194.66625	2.58460	0.2305321	0.17924924	3.1152853	20	12 30.5	19.1
235906 2005 EH_{17}	15.8	X	162.35119	63.20330	355.85724	2.56697	0.0177429	0.20320495	2.8653644	20	4 24.2	19.7
235907 2005 EJ_{19}	16.9	X	42.96505	149.20633	4.02118	2.25675	0.1714192	0.19900273	2.9055612	20	4 7.7	20.1
235908 2005 EY_{22}	15.6	X	282.15075	255.29977	341.23911	10.20294	0.1334667	0.19013002	2.9952674	20	1 22.7	20.1
235909 2005 EA_{25}	15.5	X	106.91955	57.81722	15.53692	11.34702	0.0789547	0.19736325	2.9216298	20	3 16.9	19.6
235910 2005 EO_{25}	16.3	X	131.33991	291.25820	151.00848	2.60338	0.0359044	0.20310800	2.8662761	20	4 19.2	20.4
235911 2005 EM_{34}	16.1	X	96.87263	47.39409	175.18724	4.79119	0.2331202	0.21837408	2.7310856	20	9 27.8	20.6
235912 2005 EL_{36}	14.8	X	92.00552	35.49924	316.81494	20.71835	0.0166059	0.17981675	3.1087272	20	—	—
235913 2005 EU_{39}	16.3	X	43.28675	99.26131	142.00781	5.45392	0.0593412	0.21854614	2.7296521	20	7 24.8	19.8
235914 2005 EL_{43}	16.2	X	39.01847	193.94592	348.16327	9.28817	0.1498959	0.20311469	2.8662132	20	5 4.4	19.6
235915 2005 EO_{44}	15.5	X	228.65977	293.27890	351.91586	10.13300	0.0604491	0.18946648	3.0022565	20	1 31.3	20.1
235916 2005 EF_{45}	15.3	X	224.07447	27.92047	157.02455	5.26039	0.0898403	0.17412972	3.1760509	20	12 4.7	20.0
235917 2005 EW_{45}	15.5	X	124.34912	136.47530	336.76131	16.72748	0.0328575	0.20876102	2.8142960	20	5 12.5	19.8
235918 2005 EH_{49}	15.9	X	74.38611	321.70330	167.73641	16.60039	0.1870988	0.20313201	2.8660502	20	5 2.6	19.9
235919 2005 EV_{51}	14.9	X	212.92982	238.05449	14.58102	26.74909	0.1628860	0.17701404	3.1414554	20	—	—
235920 2005 EY_{54}	15.6	X	162.62713	319.24849	350.01437	14.99878	0.1981705	0.18040761	3.1019358	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
235921 2005 EN_{58}	15.0	X	211.37822	90.76790	178.40694	16.94415	0.1059735	0.18193855	3.0845103	20	—	—
235922 2005 ET_{67}	15.1	X	193.45059	273.46074	7.88105	16.29386	0.0943735	0.17968038	3.1103000	20	—	—
235923 2005 EZ_{71}	16.2	X	284.19160	308.47195	152.74402	30.83315	0.2578440	0.24004367	2.5641448	20	11 9.7	19.5
235924 2005 EF_{84}	15.0	X	246.91955	240.26419	348.86306	16.39393	0.1385968	0.18072032	3.0983565	20	—	—
235925 2005 EA_{96}	15.8	X	62.51701	308.03537	194.40503	11.73185	0.1127143	0.20501655	2.8484598	20	4 18.0	19.4
235926 2005 EL_{97}	14.9	X	285.52102	151.49140	319.01263	21.26068	0.1258074	0.17437548	3.1730660	20	11 8.3	19.5
235927 2005 EL_{100}	15.8	X	264.72420	256.58282	353.47826	10.07237	0.0892076	0.19030168	2.9934658	20	1 25.5	20.3
235928 2005 EO_{101}	15.2	X	346.80123	45.66553	126.04911	11.52952	0.0953634	0.18919291	3.0051499	20	1 28.9	19.0
235929 2005 EX_{101}	15.1	X	23.46431	90.44796	9.18059	19.04591	0.1413299	0.18479900	3.0525982	20	—	—
235930 2005 EO_{104}	16.5	X	137.07521	326.07112	138.74314	5.27808	0.0239559	0.21260885	2.7802371	20	5 24.4	20.4
235931 2005 EU_{113}	15.2	X	201.81910	227.74054	69.85795	12.42627	0.0475672	0.18716052	3.0268662	20	1 16.2	19.8
235932 2005 EE_{116}	16.0	X	253.64846	167.97289	147.20919	2.42942	0.0592468	0.19925296	2.9031281	20	4 1.4	20.0
235933 2005 EP_{119}	16.9	X	88.12885	56.12076	21.51386	19.13937	0.1566000	0.38709176	1.8646333	20	2 18.6	18.6
235934 2005 EA_{120}	16.0	X	206.83060	153.44193	232.90686	5.21672	0.0883372	0.20704705	2.8298062	20	5 4.4	20.2
235935 2005 EO_{126}	15.6	X	25.01745	255.18050	190.25473	10.04802	0.0256752	0.17957105	3.1115623	20	—	—
235936 2005 EJ_{127}	16.6	X	282.18767	151.13353	129.73510	2.95127	0.0221106	0.20426788	2.8554156	20	3 29.3	20.5
235937 2005 EY_{132}	14.6	X	231.53474	136.29382	17.59256	16.73820	0.1221597	0.17095652	3.2152316	20	10 28.5	19.4
235938 2005 EZ_{135}	15.6	X	348.13122	10.58291	116.51328	6.09072	0.1183074	0.18348993	3.0670997	20	—	—
235939 2005 EC_{137}	16.2	X	49.64370	340.99541	145.72651	1.74958	0.1353373	0.19370894	2.9582595	20	3 11.5	19.8
235940 2005 EA_{139}	15.2	X	22.75322	243.16358	191.07145	11.84539	0.0566587	0.17701113	3.1414899	20	—	—
235941 2005 EP_{139}	15.9	X	240.97933	92.51806	136.61668	2.68370	0.1337708	0.17698720	3.1417731	20	—	—
235942 2005 EU_{139}	15.8	X	294.13398	18.95651	180.47354	12.69003	0.2152274	0.18280511	3.0747548	20	—	—
235943 2005 EF_{141}	15.3	X	19.89424	253.68073	276.63078	11.46861	0.1445426	0.20011106	2.8948228	20	3 10.4	18.9
235944 2005 EH_{143}	15.3	X	114.45371	185.34921	170.32235	11.62633	0.0464451	0.17979838	3.1089389	20	—	—
235945 2005 EV_{143}	16.1	X	262.26081	268.86756	27.34754	2.10083	0.0536113	0.19738032	2.9214614	20	3 19.5	20.3
235946 2005 EY_{145}	16.2	X	305.50032	154.25858	32.56101	3.21630	0.1605551	0.18513983	3.0488506	20	—	—
235947 2005 ET_{147}	15.7	X	84.02713	20.29780	54.87614	3.72987	0.0992722	0.19147496	2.9812248	20	2 21.9	19.6
235948 2005 EW_{156}	15.9	X	27.18250	175.13406	24.18898	7.26946	0.1231977	0.20381312	2.8596615	20	5 7.2	19.2
235949 2005 EE_{159}	16.5	X	178.43939	237.92370	177.73221	1.94119	0.0661459	0.20539093	2.8449974	20	5 11.8	20.6
235950 2005 EY_{159}	16.1	X	306.87545	123.99841	181.07781	5.77039	0.0519845	0.20631110	2.8365318	20	5 28.3	19.9
235951 2005 EL_{160}	15.8	X	49.05577	311.77962	126.61261	1.76212	0.0499806	0.18363289	3.0655076	20	1 3.6	19.7
235952 2005 EX_{165}	15.4	X	233.27657	306.50732	4.61129	14.05989	0.1569795	0.19258588	2.9697491	20	3 1.6	20.3
235953 2005 EN_{176}	16.0	X	46.13733	279.14765	349.02596	7.10730	0.1885769	0.21562083	2.7542852	20	9 22.8	19.5
235954 2005 EX_{180}	16.2	X	96.59000	31.25083	158.79465	5.23767	0.0475891	0.21897090	2.7261209	20	7 26.2	20.0
235955 2005 EW_{183}	16.6	X	18.90147	252.82085	339.70824	1.39958	0.0135191	0.20652470	2.8345757	20	6 2.7	20.3
235956 2005 ET_{188}	16.2	X	296.18600	167.31036	6.43748	2.20904	0.0737933	0.17911309	3.1168639	20	—	—
235957 2005 EP_{194}	16.6	X	271.41092	93.85325	191.23011	4.83902	0.0901838	0.19564870	2.9386740	20	3 10.6	20.9
235958 2005 ET_{194}	16.1	X	34.71368	95.00018	332.19813	1.95431	0.1139299	0.18241459	3.0791416	20	—	—
235959 2005 EO_{203}	16.3	X	258.16872	286.65742	100.16935	4.04050	0.0878928	0.22161482	2.7043954	20	7 4.6	19.9
235960 2005 EJ_{204}	16.6	X	27.87888	62.72905	54.46034	2.63537	0.1071866	0.18946109	3.0023134	20	1 22.8	20.1
235961 2005 EX_{205}	15.6	X	263.03963	64.23355	170.61791	8.56829	0.1494163	0.18364630	3.0653584	20	—	—
235962 2005 ER_{216}	16.2	X	266.37438	199.31548	348.29893	0.22522	0.1508190	0.17656225	3.1468121	20	—	—
235963 2005 EU_{216}	16.9	X	199.38964	100.53872	162.94227	23.59295	0.0587206	0.36996235	1.9217536	20	—	—
235964 2005 EX_{217}	15.7	X	185.70669	319.90214	20.23874	11.14359	0.0970356	0.18829522	3.0146937	20	2 22.9	20.5
235965 2005 EG_{218}	15.5	X	67.46117	84.59502	356.23057	9.43109	0.0189809	0.18646734	3.0343630	20	1 30.2	19.8
235966 2005 EB_{220}	14.9	X	298.27755	289.00146	270.15719	10.81725	0.0862866	0.18648410	3.0341812	20	—	—
235967 2005 EK_{221}	15.5	X	275.78913	320.18432	2.91378	7.85242	0.1513082	0.20056743	2.8904299	20	4 22.4	19.6
235968 2005 EY_{236}	16.6	X	68.26697	206.10211	51.06153	3.57853	0.0656122	0.22620810	2.6676609	20	9 23.0	20.1
235969 2005 EK_{239}	16.1	X	39.95780	321.70443	136.08570	2.95404	0.0640474	0.18811030	3.0166690	20	1 14.7	19.9
235970 2005 EH_{240}	16.0	X	229.26014	306.12048	7.95791	11.23374	0.0793121	0.19424147	2.9528502	20	3 4.8	20.4
235971 2005 EE_{248}	16.2	X	220.75233	229.15858	21.15109	0.61097	0.1201669	0.17942472	3.1132538	20	—	—
235972 2005 EH_{250}	15.7	X	300.56459	296.05774	195.09680	13.25688	0.2622118	0.17477158	3.1682699	20	12 22.0	19.2
235973 2005 EJ_{250}	15.0	X	165.32088	174.30053	155.52503	22.65438	0.0360325	0.18508191	3.0494866	20	1 12.8	19.7
235974 2005 EL_{256}	16.3	X	91.79225	234.56060	253.65264	1.10305	0.0287627	0.20171800	2.8794284	20	4 26.1	20.2
235975 2005 EX_{257}	15.6	X	283.76097	89.03848	200.81424	4.71807	0.0957556	0.19753506	2.9199355	20	3 30.8	19.8
235976 2005 EA_{260}	15.7	X	228.11405	176.23362	45.41137	1.67809	0.1458238	0.17393814	3.1783825	20	—	—
235977 2005 ER_{260}	15.7	X	231.55079	274.78558	2.87653	3.31222	0.0293128	0.18839243	3.0136566	20	1 25.4	20.0
235978 2005 ER_{262}	16.3	X	17.02476	245.71593	303.05316	2.82081	0.0999020	0.19898795	2.9057051	20	4 4.2	19.7
235979 2005 EJ_{269}	15.3	X	323.17696	276.88989	209.02481	24.88977	0.2337657	0.17820722	3.1274174	20	—	—
235980 2005 EA_{272}	15.4	X	168.79916	285.85798	115.73133	7.80844	0.0749454	0.20198279	2.8769113	20	4 17.1	19.8
235981 2005 EM_{282}	16.4	X	278.50931	179.39146	3.28442	1.93970	0.1626697	0.17825454	3.1268639	20	—	—
235982 2005 EE_{293}	15.1	X	294.32011	90.08191	95.70085	13.22195	0.1257204	0.18088472	3.0964790	20	—	—
235983 2005 EH_{306}	16.2	X	205.82621	279.97671	351.73930	5.88328	0.0454466	0.18353825	3.0665614	20	—	—
235984 2005 ET_{315}	16.0	X	22.48581	76.02366	22.89249	5.21626	0.1907407	0.18717120	3.0267510	20	—	—
235985 2005 ER_{317}	16.4	X	190.18519	147.05569	211.00214	0.91479	0.1070790	0.19486201	2.9465779	20	3 14.2	20.9
235986 2005 EY_{326}	15.9	X	191.57207	273.49789	106.28732	3.04274	0.0830899	0.20268747	2.8702393	20	4 12.2	20.2
235987 2005 ET_{327}	15.8	X	257.37450	14.12871	203.18033	9.38145	0.0802719	0.17767569	3.1336516	20	—	—
235988 2005 EJ_{330}	15.2	X	295.47482	125.87019	90.28644	11.19777	0.0476326	0.19014521	2.9951078	20	1 23.4	19.4
235989 2005 EO_{330}	15.4	X	259.12059	133.65428	103.78192	11.13355	0.1163166	0.18389772	3.0625639	20	—	—
235990 Laennec	15.8	X	9.91611	63.97832	4.56266	15.69859	0.2160818	0.17989818	3.1077890	20	—	—
235991 2005 FD_{7}	15.7	X	280.34915	78.81088	176.66251	11.82143	0.0521720	0.19163167	2.9795993	20	2 18.4	20.1
235992 2005 FC_{10}	16.0	X	328.50340	18.68419	204.32669	1.52349	0.0348135	0.19391292	2.9561846	20	3 13.3	19.8
235993 2005 FQ_{12}	15.3	X	295.54096	191.20229	35.78736	10.84276	0.0458725	0.19246439	2.9709987	20	2 9.1	19.6
235994 2005 GY_{1}	15.1	X	279.48533	113.04189	29.96091	27.39381	0.1455683	0.17621746	3.1509155	20	12 9.0	19.6
235995 2005 GA_{9}	15.2	X	227.71359	85.48726	174.31175	10.56085	0.0365921	0.18184154	3.0856073	20	—	—
235996 2005 GF_{9}	16.0	X	244.56031	74.93924	164.04586	12.30753	0.2060732	0.17570537	3.1570347	20	—	—
235997 2005 GQ_{18}	15.3	X	186.47576	133.15037	112.75973	11.21397	0.0255504	0.17014988	3.2253854	20	—	—
235998 2005 GZ_{21}	15.6	X	272.95155	33.06263	141.19374	8.75702	0.1271895	0.17549371	3.1595726	20	—	—
235999 Bucciantini	16.0	X	57.78347	251.87577	159.65978	9.09098	0.0827483	0.18231337	3.0802812	20	—	—
236000 2005 GK_{22}	15.4	X	43.82863	343.22001	119.78815	10.71377	0.0754439	0.18683604	3.0303697	20	1 28.0	19.2