Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
304001 2006 BJ_{241}	18.0	X	107.12934	119.74821	18.65266	2.10047	0.1163206	0.29550923	2.2323144	20	6 11.3	20.7
304002 2006 BZ_{260}	17.2	X	243.68861	2.89904	304.56564	5.01567	0.1788909	0.28334257	2.2957689	20	2 21.4	20.6
304003 2006 BM_{264}	17.9	X	200.41642	295.96068	144.77055	6.36321	0.1202698	0.30195564	2.2004286	20	7 7.8	21.0
304004 2006 BQ_{269}	17.3	X	38.43327	92.48658	69.41498	4.64979	0.1657261	0.28472259	2.2883447	20	4 4.4	19.0
304005 2006 CZ_{2}	18.1	X	288.56695	169.35425	155.93173	2.11442	0.1355653	0.29915274	2.2141518	20	5 14.5	20.4
304006 2006 CR_{15}	17.2	X	48.09192	174.15469	28.76580	4.20312	0.1471945	0.29347576	2.2426142	20	6 25.1	19.4
304007 2006 CE_{22}	17.3	X	231.72698	318.05214	260.59212	2.03570	0.1736621	0.26049058	2.4281455	20	—	—
304008 2006 CY_{26}	17.5	X	341.63388	272.45727	4.33457	1.18133	0.0831837	0.29755746	2.2220585	20	6 8.6	19.6
304009 2006 CQ_{27}	17.5	X	261.10381	13.56484	322.19324	3.60105	0.1957484	0.29676120	2.2260315	20	4 12.4	20.6
304010 2006 CK_{40}	17.4	X	42.43003	168.09223	359.69027	7.10134	0.0373424	0.28552179	2.2840725	20	4 4.8	19.9
304011 2006 CQ_{61}	17.1	X	356.97186	154.02109	51.33186	4.79038	0.1346113	0.28441237	2.2900083	20	3 15.1	19.1
304012 2006 DA_{2}	17.9	X	175.50111	287.68308	348.81592	4.97804	0.1549164	0.26184835	2.4197444	20	—	—
304013 2006 DV_{5}	16.8	X	282.80409	114.57760	121.61522	10.03370	0.1745588	0.27384417	2.3485531	20	1 3.7	20.2
304014 2006 DL_{8}	17.0	X	275.01540	299.68566	346.88651	6.69799	0.1284278	0.28326095	2.2962099	20	3 4.3	19.9
304015 2006 DO_{10}	17.3	X	63.87017	40.07900	141.96190	4.71764	0.0230997	0.29428049	2.2385239	20	5 30.0	19.9
304016 2006 DB_{11}	16.6	X	304.65745	132.86335	86.46737	6.88929	0.0533409	0.27585559	2.3371227	20	1 24.3	19.4
304017 2006 DA_{23}	17.2	X	228.65892	208.17433	66.37348	2.36310	0.1762381	0.26878031	2.3779593	20	1 1.8	21.1
304018 2006 DH_{27}	17.3	X	192.57794	122.90990	159.63063	6.07072	0.1058840	0.26381172	2.4077237	20	—	—
304019 2006 DH_{33}	17.1	X	274.33457	287.93846	357.20058	5.14644	0.0848107	0.27984601	2.3148524	20	3 7.9	20.0
304020 2006 DN_{37}	17.1	X	261.24354	222.85331	358.17727	4.59042	0.1408853	0.26466114	2.4025693	20	—	—
304021 2006 DS_{41}	17.0	X	316.95353	185.65657	15.76876	2.28859	0.1577939	0.27326118	2.3518923	20	—	—
304022 2006 DP_{45}	17.4	X	223.68221	93.04165	326.90010	4.52347	0.0964521	0.30301272	2.1953081	20	7 9.6	20.3
304023 2006 DC_{47}	16.9	X	251.65656	297.97148	348.50342	6.36750	0.1293207	0.27464962	2.3439592	20	2 9.7	20.4
304024 2006 DF_{55}	16.8	X	324.45968	51.41716	164.85484	9.04049	0.1634394	0.27717918	2.3296766	20	1 27.3	19.6
304025 2006 DR_{59}	17.3	X	80.42896	305.67745	180.40277	6.68861	0.0460176	0.28323475	2.2963514	20	4 6.1	19.8
304026 2006 DK_{67}	16.9	X	265.77030	228.25875	20.73188	5.51263	0.2538647	0.26870396	2.3784097	20	—	—
304027 2006 DM_{69}	17.4	X	311.36701	200.49241	23.80728	2.69785	0.1414830	0.27543238	2.3395162	20	1 26.3	20.2
304028 2006 DO_{69}	17.1	X	158.14280	169.25186	142.65896	5.43221	0.1897549	0.26118412	2.4238451	20	—	—
304029 2006 DV_{73}	17.4	X	310.97679	216.15801	16.14490	2.30712	0.1684723	0.27649285	2.3335303	20	2 1.1	20.1
304030 2006 DA_{74}	17.4	X	76.98243	189.51024	357.02710	3.27096	0.0701315	0.29479822	2.2359023	20	7 3.5	19.9
304031 2006 DM_{81}	17.5	X	261.46762	298.06036	352.98922	2.46812	0.1944402	0.27750784	2.3278369	20	2 18.6	21.1
304032 2006 DR_{89}	17.7	X	32.43816	0.46901	220.79613	1.34274	0.0858221	0.29259979	2.2470878	20	6 15.8	19.8
304033 2006 DX_{89}	17.7	X	178.06714	310.75699	357.84726	0.96378	0.1911228	0.26409594	2.4059960	20	—	—
304034 2006 DS_{90}	16.9	X	210.56949	320.75323	4.17665	6.71553	0.1512482	0.27455387	2.3445041	20	2 17.8	20.6
304035 2006 DY_{92}	16.4	X	51.72238	324.58785	1.69856	8.35502	0.1595966	0.24382670	2.5375535	20	12 14.6	20.1
304036 2006 DX_{101}	17.4	X	327.85764	197.01455	18.24133	3.44125	0.0958425	0.27850967	2.3222512	20	2 13.5	19.9
304037 2006 DO_{104}	17.2	X	344.20457	24.80308	176.59886	6.85265	0.1760070	0.27796419	2.3252884	20	2 4.3	19.5
304038 2006 DE_{115}	16.8	X	181.65455	289.40707	2.19110	6.44177	0.1522286	0.26168112	2.4207752	20	—	—
304039 2006 DY_{119}	17.3	X	30.26379	119.82888	57.30531	4.85231	0.1130444	0.28575443	2.2828326	20	4 6.8	19.3
304040 2006 DH_{134}	17.6	X	280.30235	199.32531	34.48062	3.04909	0.0912321	0.27332206	2.3515430	20	1 7.5	20.8
304041 2006 DL_{134}	18.2	X	203.12204	269.04414	129.62133	5.68883	0.1919102	0.29588069	2.2304456	20	5 13.1	21.7
304042 2006 DR_{140}	17.4	X	237.74555	212.79317	36.04051	5.01715	0.1937409	0.26468778	2.4024081	20	—	—
304043 2006 DN_{150}	16.9	X	284.04672	69.31618	213.25890	3.52531	0.0849531	0.28166943	2.3048513	20	3 14.9	19.7
304044 2006 DK_{153}	18.0	X	59.73364	196.12880	293.20527	2.18671	0.1686750	0.28171135	2.3046226	20	3 24.4	20.0
304045 2006 DT_{166}	17.4	X	232.59284	116.57174	152.83666	10.09385	0.1512821	0.26784505	2.3834916	20	—	—
304046 2006 DR_{189}	17.6	X	269.73938	131.69097	102.65591	1.73509	0.1511571	0.26831769	2.3806918	20	—	—
304047 2006 DL_{194}	17.4	X	214.15704	328.17878	324.19577	1.81661	0.2119491	0.27065647	2.3669574	20	1 10.9	21.4
304048 2006 DO_{216}	17.8	X	280.34099	114.61711	171.18554	3.66662	0.1021488	0.28027449	2.3124925	20	3 13.5	20.5
304049 2006 ED_{19}	17.8	X	131.42448	121.48084	354.75451	4.48310	0.0916040	0.29168200	2.2517991	20	6 6.7	20.8
304050 2006 EQ_{19}	17.6	X	50.37711	153.04949	17.57940	2.35434	0.0898394	0.28491308	2.2873246	20	4 29.2	20.0
304051 2006 ES_{33}	17.6	X	40.31046	62.59124	106.17695	4.24294	0.1642873	0.28450728	2.2894990	20	4 19.7	19.5
304052 2006 EV_{33}	17.2	X	151.70277	98.83600	25.84255	7.19838	0.0916373	0.29871467	2.2163160	20	7 16.1	20.3
304053 2006 EX_{33}	16.3	X	359.99210	95.81451	108.69816	6.82581	0.0748398	0.28215064	2.3022299	20	3 26.1	18.7
304054 2006 EB_{38}	18.2	X	169.89241	91.76706	355.94594	5.70209	0.1267529	0.29783589	2.2206734	20	6 13.5	21.4
304055 2006 EM_{48}	17.6	X	257.90655	142.73429	108.50949	3.07811	0.1177076	0.27145602	2.3623074	20	1 2.5	20.8
304056 2006 EG_{65}	17.3	X	255.17213	292.58264	309.01236	1.91573	0.1365805	0.26589262	2.3951453	20	—	—
304057 2006 EA_{66}	16.7	X	357.74832	272.72976	193.35034	7.46514	0.0575220	0.26254648	2.4154529	20	—	—
304058 2006 FH_{3}	17.4	X	48.56178	358.73107	168.25602	1.98123	0.1044824	0.28339864	2.2954660	20	4 23.6	19.5
304059 2006 FX_{3}	17.4	X	276.96308	221.73547	21.91959	5.35884	0.1646330	0.26921163	2.3754187	20	1 9.7	21.0
304060 2006 FQ_{12}	17.5	X	196.07943	196.67822	123.99065	2.09456	0.1840558	0.26688826	2.3891848	20	1 29.8	21.4
304061 2006 FB_{13}	16.8	X	177.36014	359.30625	29.42018	10.90142	0.1551489	0.28078885	2.3096676	20	4 6.3	20.3
304062 2006 FW_{15}	18.0	X	204.10034	275.23816	10.54987	2.50418	0.1835101	0.26349658	2.4096431	20	—	—
304063 2006 FY_{16}	17.2	X	51.79165	337.24736	193.23308	6.19927	0.1210362	0.28489786	2.2874060	20	5 7.9	19.4
304064 2006 FM_{22}	17.0	X	165.58396	319.18821	6.94589	5.32212	0.2371680	0.26314188	2.4118080	20	1 14.9	20.9
304065 2006 FM_{23}	17.6	X	229.58712	78.96107	162.44261	2.65347	0.1233491	0.25952298	2.4341771	20	—	—
304066 2006 FN_{24}	17.3	X	320.53781	56.07583	176.80952	4.03346	0.1270713	0.27562625	2.3384190	20	2 20.4	20.1
304067 2006 FT_{34}	17.1	X	20.25216	177.15982	18.52535	6.20430	0.0955170	0.28052868	2.3110954	20	4 13.6	19.1
304068 2006 FB_{38}	17.1	X	68.23787	101.70455	168.77868	9.77489	0.1851584	0.23442873	2.6049266	20	10 28.5	21.0
304069 2006 FR_{47}	17.3	X	47.07059	84.18706	80.64053	3.44324	0.1527664	0.28376509	2.2934894	20	4 24.9	19.2
304070 2006 FO_{49}	16.5	X	300.14570	183.00545	60.34378	23.89426	0.1758118	0.27345257	2.3507947	20	2 9.3	20.2
304071 2006 FS_{53}	17.3	X	172.45260	269.72163	34.93752	2.87550	0.1917225	0.25656224	2.4528683	20	—	—
304072 2006 GQ_{15}	18.0	X	61.03022	56.89838	87.89880	2.75673	0.1404890	0.28189776	2.3036065	20	4 18.1	20.2
304073 2006 GK_{21}	17.4	X	247.29469	63.80809	195.93482	5.38435	0.1060662	0.26853157	2.3794275	20	1 2.7	20.9
304074 2006 GR_{24}	17.6	X	130.87192	242.59786	30.73043	11.03207	0.1794087	0.24425086	2.5346149	20	12 26.3	22.0
304075 2006 GT_{25}	17.7	X	123.67095	119.13676	192.45902	6.39281	0.1089422	0.25125050	2.4873187	20	—	—
304076 2006 GP_{30}	17.6	X	286.98510	119.00721	124.15804	2.96264	0.0805836	0.27081524	2.3660322	20	1 29.1	20.7
304077 2006 GO_{31}	17.1	X	318.53533	150.76800	33.96677	7.75906	0.0559862	0.26553973	2.3972668	20	—	—
304078 2006 GW_{35}	16.4	X	253.85809	257.25101	24.53884	7.28258	0.1162024	0.27240813	2.3567997	20	2 8.8	19.9
304079 2006 GQ_{37}	17.0	X	319.46625	191.05963	27.64621	5.94532	0.1395428	0.27199514	2.3591848	20	2 1.1	19.8
304080 2006 GN_{38}	16.7	X	76.35296	352.97229	144.21510	8.90509	0.1671678	0.28354518	2.2946751	20	5 9.3	19.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
304081 2006 GK_{40}	17.0	X	271.16998	206.31002	41.62234	13.48718	0.1624111	0.26787609	2.3833075	20	1 10.2	20.8
304082 2006 GL_{40}	16.7	X	170.50534	188.45296	85.83653	5.82671	0.1536931	0.25249208	2.4791580	20	—	—
304083 2006 GW_{47}	17.6	X	274.84973	205.93516	39.00590	3.03802	0.1441759	0.26820530	2.3813568	20	1 10.9	21.1
304084 2006 GL_{54}	17.2	X	53.68211	122.16387	47.52438	7.66395	0.0384684	0.28249274	2.3003709	20	4 27.9	19.8
304085 2006 GP_{54}	17.3	X	195.20608	197.30167	99.28810	2.57277	0.1832745	0.25938372	2.4350482	20	—	—
304086 2006 HZ_{1}	16.8	X	327.56343	176.96942	66.19631	6.98127	0.0861189	0.27817657	2.3241047	20	3 28.2	19.4
304087 2006 HP_{3}	17.5	X	62.68498	107.21787	56.99472	2.86788	0.1949364	0.28562483	2.2835231	20	5 29.2	19.8
304088 2006 HX_{5}	19.2	X	350.43306	49.57234	38.03431	21.23273	0.2508497	0.46808259	1.6428115	20	—	—
304089 2006 HQ_{18}	16.9	X	0.56415	79.68849	33.67027	4.68015	0.0461032	0.26171161	2.4205871	20	—	—
304090 2006 HG_{19}	16.9	X	77.32500	256.87474	70.38996	7.51735	0.1500202	0.24355709	2.5394258	20	—	—
304091 2006 HV_{20}	17.5	X	341.57451	169.74537	39.16858	4.56850	0.1489606	0.27407319	2.3472446	20	2 19.9	19.9
304092 2006 HR_{28}	16.1	X	118.30086	163.17990	99.84920	16.80385	0.1140686	0.23754556	2.5820904	20	12 3.3	20.2
304093 2006 HM_{29}	16.8	X	13.96731	107.34591	176.53736	9.10755	0.4164953	0.21796781	2.7344783	20	10 4.9	19.2
304094 2006 HV_{32}	16.7	X	273.26522	150.76405	93.63991	8.86312	0.0871598	0.26805230	2.3822629	20	1 14.2	19.9
304095 2006 HT_{36}	17.0	X	124.99046	52.95357	217.26625	4.98747	0.2534733	0.23942723	2.5685441	20	12 17.7	21.5
304096 2006 HF_{50}	16.8	X	80.79195	188.67641	95.26195	8.05252	0.3323013	0.23323386	2.6138158	20	12 5.8	21.5
304097 2006 HK_{50}	17.6	X	240.02638	117.21751	165.68649	2.21898	0.1821973	0.26840264	2.3801894	20	1 21.1	21.5
304098 2006 HT_{51}	16.7	X	256.95706	257.67962	302.00335	9.41181	0.1880413	0.25742320	2.4473960	20	—	—
304099 2006 HG_{57}	17.1	X	233.88859	207.99625	72.71459	3.24621	0.1707422	0.26485942	2.4013701	20	1 14.7	20.8
304100 2006 HU_{57}	17.4	X	136.98498	263.25852	209.89698	22.40795	0.2205131	0.28996534	2.2606777	20	6 17.3	21.4
304101 2006 HQ_{59}	16.8	X	314.43832	5.78475	177.38151	7.14251	0.1303236	0.26717607	2.3874687	20	—	—
304102 2006 HK_{65}	17.2	X	268.79054	153.96929	61.19933	6.64649	0.0425059	0.26031466	2.4292393	20	—	—
304103 2006 HU_{71}	17.1	X	43.09252	317.86101	140.27225	5.28103	0.1076359	0.26524389	2.3990490	20	1 3.9	19.4
304104 2006 HD_{73}	17.0	X	45.12672	89.32090	86.13001	6.15221	0.0976479	0.28011970	2.3133443	20	5 1.6	19.3
304105 2006 HF_{78}	16.9	X	359.35082	175.15500	46.57562	7.05813	0.0824533	0.28035576	2.3120456	20	4 17.4	19.2
304106 2006 HX_{91}	16.7	X	65.17781	342.06337	97.67552	7.50699	0.0699738	0.26451637	2.4034459	20	1 13.7	19.2
304107 2006 HW_{93}	16.3	X	339.93972	222.11343	117.44623	12.07537	0.1924330	0.22322600	2.6913667	20	9 8.7	18.9
304108 2006 HO_{96}	17.5	X	165.94558	87.57650	216.88506	6.32610	0.0806423	0.25555925	2.4592819	20	—	—
304109 2006 HA_{100}	17.5	X	1.45451	140.30366	40.51522	3.45960	0.0757091	0.27256398	2.3559012	20	2 21.9	19.9
304110 2006 HQ_{108}	16.6	X	245.52276	145.12274	107.07357	7.38496	0.1082607	0.26248529	2.4158283	20	—	—
304111 2006 HJ_{118}	17.6	X	46.89959	259.15323	186.92903	6.41769	0.0864882	0.26764252	2.3846939	20	—	—
304112 2006 HC_{120}	17.5	X	283.67168	160.13262	62.28904	2.24544	0.0977014	0.26440216	2.4041379	20	—	—
304113 2006 JK_{5}	16.8	X	273.33108	45.69464	217.27589	6.51330	0.0844158	0.27035175	2.3687356	20	2 4.4	20.1
304114 2006 JP_{22}	16.7	X	108.25960	144.29363	163.82937	15.41006	0.1425542	0.24162823	2.5529223	20	—	—
304115 2006 JY_{23}	16.7	X	260.93564	20.93333	243.94816	5.24398	0.0810875	0.26747927	2.3856641	20	1 25.1	20.0
304116 2006 JF_{24}	17.5	X	173.63262	252.79907	44.56532	5.14974	0.1178196	0.25646562	2.4534843	20	—	—
304117 2006 JC_{32}	16.9	X	338.97895	205.67880	180.55098	5.12969	0.1020946	0.23617623	2.5920612	20	11 11.3	19.7
304118 2006 JM_{37}	17.2	X	223.29448	220.95197	70.84359	5.39737	0.1566808	0.26526830	2.3989019	20	1 19.4	21.0
304119 2006 JD_{40}	15.6	X	305.64491	195.84604	247.68773	16.52583	0.1034116	0.22702578	2.6612516	20	11 29.7	18.4
304120 2006 JG_{45}	17.0	X	98.07457	239.18201	67.28195	14.63652	0.1913485	0.23928782	2.5695416	20	—	—
304121 2006 JD_{55}	16.5	X	71.32947	281.74886	57.16768	13.13726	0.2543368	0.23868961	2.5738330	20	—	—
304122 2006 JY_{73}	17.9	X	150.08796	131.78273	253.70944	0.35812	0.1904972	0.27240445	2.3568209	20	3 7.9	21.5
304123 2006 KT_{2}	17.0	X	153.66810	183.48380	76.57502	7.00066	0.1805546	0.24414003	2.5353819	20	12 29.8	21.1
304124 2006 KM_{5}	16.9	X	85.05509	32.69467	64.12944	8.14529	0.0832265	0.27161671	2.3613755	20	3 13.4	19.8
304125 2006 KU_{7}	17.0	X	298.15551	167.84024	59.92564	7.45976	0.0735243	0.26725540	2.3869962	20	1 26.4	20.1
304126 2006 KG_{13}	16.3	X	331.10133	203.09951	157.15652	13.42207	0.2159299	0.22741972	2.6581774	20	9 18.1	18.4
304127 2006 KK_{14}	16.5	X	122.98601	105.09017	184.13648	16.24343	0.1699958	0.24306229	2.5428710	20	—	—
304128 2006 KD_{15}	16.8	X	86.69953	190.11457	98.66613	7.85686	0.2835033	0.23358308	2.6112100	20	12 12.3	21.3
304129 2006 KY_{36}	17.5	X	64.27566	53.52477	77.39642	6.02321	0.1894846	0.27644657	2.3337908	20	4 13.3	19.8
304130 2006 KJ_{40}	16.1	X	72.09355	192.93005	78.16377	15.37131	0.2273246	0.22851863	2.6496488	20	11 7.9	20.3
304131 2006 KL_{42}	17.5	X	218.59630	207.27996	53.93324	3.04425	0.1344786	0.25668279	2.4521002	20	—	—
304132 2006 KA_{47}	17.3	X	151.63702	53.35512	217.73540	3.93980	0.2343898	0.24425481	2.5345876	20	—	—
304133 2006 KC_{51}	16.2	X	106.61845	232.80879	89.57431	5.78936	0.2570784	0.24155204	2.5534591	20	—	—
304134 2006 KB_{64}	17.6	X	44.98008	91.86692	40.87677	6.37868	0.1396379	0.27525706	2.3405095	20	3 2.6	19.7
304135 2006 KE_{64}	17.1	X	79.58358	206.46022	136.38418	6.06585	0.2329830	0.24210909	2.5495409	20	—	—
304136 2006 KO_{64}	16.7	X	98.95864	240.88601	55.39533	9.49295	0.0763831	0.23969156	2.5666554	20	12 19.4	20.4
304137 2006 KP_{70}	17.2	X	55.94489	286.04362	165.61388	5.13687	0.0814302	0.26417032	2.4055444	20	1 15.4	19.8
304138 2006 KR_{77}	16.8	X	35.07310	79.79713	235.93136	11.64839	0.2642720	0.22620604	2.6676771	20	11 23.8	20.3
304139 2006 KT_{77}	16.6	X	125.06444	200.76317	70.81359	13.61739	0.2355058	0.23849305	2.5752470	20	12 18.4	21.0
304140 2006 KU_{79}	15.9	X	79.42571	232.26558	93.33869	12.54153	0.2016239	0.23751464	2.5823145	20	—	—
304141 2006 KP_{80}	17.3	X	82.11774	141.10832	161.37559	5.15352	0.1362179	0.23633398	2.5909077	20	12 14.3	21.3
304142 2006 KW_{81}	16.1	X	53.23612	253.39522	93.89252	12.46120	0.1757186	0.23744794	2.5827980	20	—	—
304143 2006 KJ_{84}	17.3	X	47.36892	189.19046	159.11235	6.35355	0.2738683	0.23471759	2.6027890	20	—	—
304144 2006 KV_{92}	16.9	X	96.10276	229.81823	81.95586	6.49167	0.1416170	0.24116042	2.5562227	20	—	—
304145 2006 KF_{99}	16.9	X	140.53214	197.25075	85.43800	10.26032	0.0958038	0.24427646	2.5344378	20	—	—
304146 2006 KH_{102}	15.9	X	60.23527	80.68659	220.48000	18.56596	0.0307858	0.23282411	2.6168816	20	11 3.7	19.4
304147 2006 KR_{115}	17.8	X	65.96072	47.37222	91.92956	5.15387	0.1780892	0.27846616	2.3224931	20	4 26.3	20.1
304148 2006 KB_{122}	16.4	X	7.59426	314.70716	348.51761	5.23920	0.3682754	0.21597299	2.7512903	20	10 6.6	18.7
304149 2006 KM_{143}	15.5	X	339.61307	306.43200	68.73503	12.43819	0.3003462	0.21422664	2.7662222	20	11 5.9	17.5
304150 2006 LL_{2}	17.0	X	54.57357	143.17532	212.94170	12.91766	0.1996510	0.23865913	2.5740522	20	—	—
304151 2006 ME_{14}	16.0	X	133.80802	206.73605	58.04995	14.27580	0.1916312	0.23568503	2.5956614	20	12 16.1	20.5
304152 2006 NH	16.4	X	102.41708	237.77820	61.88264	4.70063	0.1898712	0.23233301	2.6205680	20	12 31.9	20.7
304153 2006 OU_{10}	17.9	X	179.72615	173.44664	335.22370	33.70868	0.3496850	0.42412915	1.7544351	20	9 7.1	21.0
304154 2006 OW_{17}	16.4	X	53.51489	242.18844	64.55626	13.73316	0.2665916	0.22333434	2.6904961	20	12 1.6	20.4
304155 2006 OO_{18}	16.2	X	85.22692	257.46931	40.29146	17.70375	0.2525204	0.23105275	2.6302395	20	12 16.7	20.9
304156 2006 OU_{19}	15.6	X	333.50071	334.17193	35.97162	15.24981	0.1875816	0.21526950	2.7572811	20	10 9.0	18.3
304157 2006 OT_{20}	16.5	X	329.71581	201.15311	158.46860	2.36817	0.0922688	0.21005899	2.8026909	20	9 12.3	19.7
304158 2006 OV_{21}	16.6	X	3.17432	294.23021	39.17810	8.77454	0.2895244	0.21654080	2.7464787	20	10 29.1	18.9
304159 2006 PF	16.1	X	340.88332	88.44302	280.09811	12.04130	0.2390034	0.21651668	2.7466826	20	10 14.9	18.8
304160 2006 PG_{1}	17.6	X	86.72798	257.70599	143.85695	23.59645	0.1880369	0.38531304	1.8703674	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
304161 2006 PE_3	16.2	X	56.49590	310.37973	333.99006	11.93932	0.1989004	0.22191208	2.7019797	20	10 24.5	20.3
304162 2006 PS_6	16.5	X	26.62816	276.33130	86.18020	4.87673	0.1797685	0.22568223	2.6718033	20	12 29.3	19.8
304163 2006 PQ_7	16.5	X	338.45684	263.23640	138.31552	10.08588	0.1618386	0.22254356	2.6968660	20	12 2.7	19.5
304164 2006 PN_{10}	16.4	X	28.45349	172.67007	174.70928	6.62308	0.0471938	0.22354723	2.6887878	20	11 23.7	20.0
304165 2006 PG_{12}	16.3	X	47.27238	332.19209	324.39309	8.09571	0.1184426	0.21871555	2.7282424	20	10 18.2	20.0
304166 2006 PL_{15}	16.5	X	315.50932	54.43717	312.38832	2.98584	0.1112774	0.21130871	2.7916295	20	8 27.3	19.8
304167 2006 PX_{16}	15.9	X	52.35187	7.91090	308.08065	8.48868	0.1082908	0.22132289	2.7067729	20	11 19.3	19.7
304168 2006 PK_{20}	16.5	X	354.64964	255.21052	62.61102	20.22825	0.3082689	0.21300867	2.7767569	20	9 29.9	19.2
304169 2006 PW_{25}	16.5	X	7.44363	20.18369	338.96402	10.08505	0.1789146	0.21994274	2.7180846	20	11 22.1	19.8
304170 2006 PP_{37}	17.4	X	72.69059	51.46626	280.09492	0.75530	0.1805230	0.23172440	2.6251545	20	—	—
304171 2006 PF_{39}	16.2	X	31.18859	210.29843	98.00708	11.96948	0.0975946	0.22032995	2.7148991	20	10 19.1	19.9
304172 2006 PX_{40}	16.9	X	3.74482	177.52227	138.58723	6.49676	0.1893882	0.21454236	2.7635077	20	9 21.3	19.7
304173 2006 PN_{43}	16.3	X	354.77283	170.21485	159.20215	9.65138	0.1607155	0.21407141	2.7675593	20	9 18.8	19.0
304174 2006 PQ_{43}	16.8	X	13.63005	163.43815	185.08883	3.10696	0.1174383	0.21757617	2.7377587	20	11 12.1	20.1
304175 2006 QT_3	17.1	X	342.18967	157.11605	206.19409	0.75590	0.2118899	0.21402974	2.7679185	20	10 14.2	19.5
304176 2006 QP_5	16.0	X	18.06511	239.94739	81.86914	9.62969	0.1548304	0.21722093	2.7407427	20	10 23.3	19.3
304177 2006 QK_9	16.0	X	53.66099	305.55310	339.39505	10.92176	0.1994772	0.21751065	2.7383084	20	10 21.9	20.0
304178 2006 QH_{17}	16.7	X	145.64785	136.01791	115.68527	8.42867	0.1678510	0.23214476	2.6219845	20	12 12.2	21.0
304179 2006 QC_{18}	16.2	X	102.24834	207.05670	86.52563	5.35124	0.1722210	0.23008279	2.6376265	20	12 23.3	20.5
304180 2006 QA_{26}	15.9	X	78.19936	354.62352	287.90136	13.83460	0.1185018	0.22341804	2.6898241	20	11 7.5	20.1
304181 2006 QG_{34}	16.7	X	43.53746	4.59130	324.58026	4.31423	0.1689722	0.22197537	2.7014661	20	12 5.3	20.5
304182 2006 QV_{37}	16.4	X	88.67078	246.29040	58.99459	4.23154	0.1621315	0.22894543	2.6463547	20	12 24.2	20.6
304183 2006 QO_{41}	16.4	X	16.42524	115.54024	242.14193	6.30174	0.1836204	0.22101673	2.7092721	20	12 8.4	19.5
304184 2006 QH_{52}	16.3	X	7.66980	264.18804	64.61126	1.96669	0.0770426	0.21567786	2.7537997	20	10 2.5	19.6
304185 2006 QC_{53}	16.3	X	159.45463	253.29781	337.80325	9.89641	0.0827533	0.22697457	2.6616518	20	11 29.2	20.4
304186 2006 QN_{56}	16.6	X	20.10162	148.85647	194.86971	4.86846	0.1168276	0.21891413	2.7265922	20	11 15.7	20.0
304187 2006 QF_{57}	15.8	X	348.96699	106.82716	229.81358	12.06398	0.1883302	0.21177201	2.7875565	20	9 11.7	18.8
304188 2006 QZ_{59}	16.5	X	352.68854	16.79889	303.26104	7.12052	0.2823318	0.21108645	2.7935888	20	9 4.2	18.6
304189 2006 QU_{65}	16.9	X	310.93387	59.40283	340.05732	3.77059	0.1078494	0.21432094	2.7654107	20	10 4.3	20.1
304190 2006 QY_{65}	16.6	X	74.43255	229.43045	56.84563	5.55504	0.1992186	0.22203466	2.7009852	20	11 20.1	20.7
304191 2006 QY_{70}	16.9	X	26.73020	351.99593	352.85119	5.27045	0.0485499	0.22102301	2.7092208	20	11 14.6	20.6
304192 2006 QW_{78}	15.6	X	342.17245	0.86439	354.19361	13.75040	0.2006203	0.21278797	2.7786766	20	9 28.2	18.1
304193 2006 QM_{79}	16.2	X	336.10156	152.14122	208.68407	4.81045	0.1275108	0.21410022	2.7673110	20	9 24.1	19.2
304194 2006 QP_{80}	16.8	X	57.03855	267.10993	15.21665	1.93815	0.1297077	0.21822812	2.7323034	20	10 17.7	20.6
304195 2006 QG_{82}	16.6	X	11.91587	63.29687	330.37740	4.21190	0.0729757	0.22666607	2.6640663	20	—	—
304196 2006 QL_{92}	16.9	X	68.01233	80.66449	246.48445	1.69007	0.1005922	0.22851981	2.6496396	20	12 23.9	20.7
304197 2006 QL_{96}	15.8	X	59.17920	249.39947	31.15275	14.54867	0.2654400	0.21936616	2.7228452	20	11 3.6	19.9
304198 2006 QA_{98}	16.8	X	6.45356	93.05624	238.68402	7.02312	0.2115424	0.21619548	2.7494024	20	10 18.6	19.6
304199 2006 QF_{100}	16.2	X	16.31892	2.57756	316.46763	6.85978	0.2482572	0.21481026	2.7612096	20	10 22.6	19.4
304200 2006 QJ_{102}	16.6	X	315.71808	41.94256	319.77352	5.06952	0.0233854	0.21029409	2.8006016	20	8 27.4	20.4
304201 2006 QN_{106}	16.9	X	56.77481	99.72769	224.66776	2.17641	0.1284392	0.22443301	2.6817085	20	12 10.5	20.6
304202 2006 QQ_{106}	16.4	X	311.96920	81.93683	304.46828	4.15793	0.0630504	0.21421018	2.7663639	20	9 20.6	19.8
304203 2006 QR_{110}	16.7	X	30.27771	152.04448	182.48443	2.45128	0.0653650	0.22102675	2.7091902	20	11 10.8	20.1
304204 2006 QK_{112}	16.7	X	15.28277	118.01471	230.73593	7.60240	0.2036496	0.21994014	2.7181060	20	11 27.9	19.7
304205 2006 QB_{116}	16.0	X	13.53839	39.44532	267.38555	6.93576	0.2156301	0.21331275	2.7741174	20	9 24.0	19.1
304206 2006 QJ_{116}	16.4	X	345.00798	79.76169	267.55894	3.02538	0.2102414	0.21181480	2.7871810	20	9 23.8	19.0
304207 2006 QB_{117}	16.6	X	14.62219	166.59814	192.10704	6.28046	0.1286539	0.22042313	2.7141339	20	11 29.5	19.9
304208 2006 QY_{117}	16.5	X	63.77347	21.39621	288.16525	1.99253	0.0927520	0.22231411	2.6987213	20	11 24.7	20.3
304209 2006 QD_{120}	16.4	X	342.45119	70.75576	305.36543	7.67300	0.2580653	0.21726055	2.7404095	20	11 4.9	18.8
304210 2006 QY_{120}	17.1	X	25.81281	102.05640	196.11962	7.27844	0.2151432	0.21536253	2.7564871	20	10 8.0	20.0
304211 2006 QT_{123}	16.1	X	29.17050	96.57664	230.38636	8.39116	0.2190458	0.21775695	2.7362432	20	11 21.5	19.5
304212 2006 QN_{127}	16.3	X	84.45201	152.52903	144.63718	12.93003	0.1862128	0.22813371	2.6526284	20	12 13.9	20.7
304213 2006 QF_{130}	16.5	X	340.41077	133.59768	217.03952	8.19730	0.2107991	0.21189197	2.7865043	20	9 16.7	19.2
304214 2006 QU_{133}	16.6	X	20.04689	338.04869	306.74252	7.00120	0.1937365	0.21162883	2.7888137	20	9 2.5	19.7
304215 2006 QS_{136}	15.8	X	355.35371	204.10238	144.39599	13.54025	0.1396825	0.21478928	2.7613894	20	10 19.5	19.1
304216 2006 QU_{138}	16.7	X	334.74893	101.99081	258.17249	3.85749	0.1783876	0.21251788	2.7810304	20	9 18.8	19.4
304217 2006 QH_{142}	16.5	X	84.59663	83.46587	212.37162	4.40129	0.2538643	0.22488264	2.6781327	20	12 15.4	21.1
304218 2006 QM_{146}	16.6	X	50.92031	315.01791	1.18446	4.70837	0.1539794	0.22114431	2.7082300	20	11 25.1	20.5
304219 2006 QT_{147}	16.6	X	83.18098	65.93643	165.17864	13.45722	0.1610668	0.21045826	2.7991450	20	9 17.2	20.8
304220 2006 QE_{158}	16.7	X	339.90863	56.46132	320.87476	4.99415	0.0686949	0.21772371	2.7365217	20	10 21.5	20.1
304221 2006 QJ_{158}	16.9	X	322.78361	203.27184	229.56217	0.75765	0.1430856	0.22307322	2.6925954	20	12 13.7	19.7
304222 2006 QA_{160}	16.7	X	118.71370	72.56063	163.17539	8.15625	0.0633589	0.21800052	2.7342047	20	10 24.9	20.7
304223 2006 QN_{161}	16.5	X	23.82629	7.84586	332.33269	4.38372	0.1309088	0.21808277	2.7335172	20	11 15.9	20.1
304224 2006 QP_{162}	16.9	X	305.63307	198.70817	206.88432	7.92364	0.2222067	0.21164568	2.7886657	20	9 19.3	19.6
304225 2006 QX_{163}	16.4	X	297.58716	224.06066	193.92169	7.66109	0.2169708	0.21315155	2.7755159	20	9 23.4	19.3
304226 2006 QG_{164}	15.9	X	108.71284	358.05963	261.87693	13.15332	0.2168933	0.22579611	2.6709048	20	11 19.9	20.4
304227 2006 QD_{168}	16.6	X	291.87042	276.99402	136.96888	9.77941	0.2202156	0.21079962	2.7961223	20	9 9.2	19.7
304228 2006 QD_{183}	16.4	X	239.71051	279.60707	205.67101	3.11651	0.1200926	0.21858358	2.7293403	20	10 14.2	20.2
304229 2006 QE_{183}	16.5	X	82.06222	309.47368	346.25437	10.68160	0.0664255	0.22317189	2.6918017	20	11 22.9	20.6
304230 2006 QG_{184}	16.9	X	201.06119	28.07174	105.27518	1.77694	0.0167251	0.21079544	2.7961593	20	9 20.3	20.6
304231 2006 QH_{184}	16.7	X	290.07197	223.29586	139.13620	2.75745	0.0942280	0.20207716	2.8760155	20	7 13.3	20.3
304232 2006 QB_{185}	16.5	X	342.79012	354.17983	351.96158	21.70518	0.1852320	0.21261665	2.7801691	20	9 16.9	19.2
304233 Majaess	16.1	X	235.16044	349.58587	99.58247	12.63329	0.0692503	0.20335343	2.8639695	20	9 1.9	20.3
304234 2006 RY_4	15.7	X	44.44687	46.71711	273.43916	8.03093	0.0892273	0.21977752	2.7194466	20	11 12.1	19.4
304235 2006 RS_9	15.5	X	301.03333	73.26667	350.12669	12.29624	0.1663742	0.21436687	2.7650157	20	10 11.3	18.6
304236 2006 RH_{11}	16.1	X	70.31518	110.85162	188.64926	11.37444	0.0977231	0.22067443	2.7120730	20	11 22.1	20.1
304237 2006 RL_{11}	16.5	X	338.81607	76.79351	306.66389	3.68952	0.1302149	0.21566939	2.7538718	20	10 30.8	19.5
304238 2006 RN_{13}	16.7	X	348.72246	82.64362	190.10393	14.62412	0.1289089	0.20359578	2.8616962	20	6 12.4	20.2
304239 2006 RS_{15}	16.0	X	358.24212	104.64196	233.85530	7.08949	0.1247282	0.21306779	2.7762432	20	9 30.9	19.2
304240 2006 RK_{20}	16.0	X	335.86116	58.88828	293.39654	7.99779	0.1737038	0.21035592	2.8000528	20	9 6.9	19.0

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		°	°	°	°		°				
304241 2006 RS_{26}	17.0	X	227.77177	283.51637	173.43759	6.34611	0.0533418	0.20483292	2.8501620	20	8 30.7	20.9
304242 2006 RE_{28}	16.5	X	258.51103	269.20912	161.40173	2.93400	0.0847453	0.20513139	2.8473966	20	8 31.6	20.2
304243 2006 RJ_{29}	16.6	X	268.17496	319.60262	188.38649	11.44883	0.1306649	0.23145118	2.6272200	20	12 23.7	19.9
304244 2006 RZ_{29}	16.5	X	332.57916	215.49208	203.99766	4.77058	0.1667371	0.22315985	2.6918985	20	12 15.1	19.3
304245 2006 RD_{40}	16.5	X	356.64213	178.59467	153.49869	9.54807	0.2065851	0.21075848	2.7964862	20	10 1.5	19.2
304246 2006 RB_{43}	16.4	X	291.08581	1.87188	10.95329	12.71361	0.0814957	0.20213083	2.8755064	20	8 5.4	20.3
304247 2006 RR_{44}	16.8	X	349.78201	295.87871	53.29304	2.37109	0.0816285	0.21000867	2.8031386	20	10 1.4	20.1
304248 2006 RR_{47}	16.2	X	319.82651	4.62880	17.63258	3.60159	0.1017528	0.21004453	2.8028195	20	9 26.9	19.5
304249 2006 RS_{47}	16.3	X	23.11485	340.11797	18.08299	6.07561	0.0514406	0.21867661	2.7285662	20	11 27.2	19.9
304250 2006 RP_{49}	16.6	X	45.62404	98.47277	203.22143	4.23606	0.0286353	0.21106331	2.7937930	20	10 11.8	20.3
304251 2006 RN_{50}	16.2	X	131.54621	205.62167	17.59287	13.36711	0.1510371	0.21340993	2.7732752	20	10 21.7	20.7
304252 2006 RP_{50}	16.6	X	46.92717	299.77531	17.27392	4.43614	0.0701273	0.21506049	2.7590673	20	11 8.2	20.2
304253 2006 RA_{51}	15.7	X	260.21652	281.66829	14.42957	5.75309	0.1278561	0.18289082	3.0737942	20	3 10.6	20.4
304254 2006 RR_{56}	16.4	X	248.88873	53.27528	24.76848	2.17607	0.0130737	0.20598947	2.8394837	20	9 9.4	20.1
304255 2006 RX_{60}	16.3	X	279.08692	279.79141	154.77821	4.57018	0.2164549	0.21087005	2.7954997	20	9 15.8	19.7
304256 2006 RH_{65}	16.4	X	291.45157	64.21554	0.64596	12.75911	0.1993560	0.21201979	2.7853842	20	9 24.9	19.5
304257 2006 RP_{66}	16.4	X	144.40581	85.48266	10.80291	8.83377	0.0598651	0.18732592	3.0250842	20	5 22.0	20.9
304258 2006 RD_{69}	16.4	X	33.90454	161.09274	186.62371	6.18711	0.0372881	0.22014777	2.7163967	20	11 28.6	20.0
304259 2006 RJ_{69}	17.4	X	308.30665	196.86831	192.95571	4.21363	0.0880877	0.21020065	2.8014315	20	9 18.2	20.6
304260 2006 RX_{79}	17.2	X	68.86174	88.25430	167.61195	4.06906	0.1567148	0.21171235	2.7880801	20	10 1.9	21.1
304261 2006 RT_{80}	16.2	X	179.77212	103.23548	17.69340	2.06741	0.0127863	0.20292341	2.8680141	20	8 7.1	20.2
304262 2006 RZ_{81}	16.5	X	110.40375	76.43820	157.90576	3.25056	0.0971844	0.21416526	2.7667507	20	10 14.6	20.6
304263 2006 RP_{83}	16.6	X	300.99535	163.42789	194.79271	5.99096	0.1028155	0.20218696	2.8749742	20	7 21.5	20.3
304264 2006 RU_{85}	16.8	X	18.51035	295.31831	354.67956	1.54383	0.0472423	0.20506051	2.8480527	20	8 21.9	20.4
304265 2006 RN_{89}	16.8	X	315.45892	177.46823	231.90318	2.64321	0.1105671	0.21320422	2.7750588	20	10 26.1	20.0
304266 2006 RB_{92}	16.3	X	319.60584	39.03114	7.22186	6.26993	0.0395146	0.21447361	2.7640982	20	10 29.8	19.8
304267 2006 RQ_{93}	16.6	X	19.39619	109.44004	231.34803	3.94649	0.0779355	0.21388090	2.7692025	20	11 3.2	20.1
304268 2006 RK_{95}	16.4	X	117.13683	101.43741	5.75647	5.16379	0.1708130	0.18073475	3.0981916	20	5 17.7	21.2
304269 2006 RL_{96}	16.5	X	311.51081	119.24368	242.40538	1.04424	0.0798775	0.20347313	2.8628461	20	8 15.7	20.1
304270 2006 RF_{98}	16.3	X	279.40837	89.79188	327.79284	5.77025	0.0336272	0.21167079	2.7884451	20	9 18.5	19.9
304271 2006 RK_{102}	16.7	X	339.31390	146.95397	231.20135	3.58952	0.1485384	0.21497601	2.7597901	20	10 26.2	19.6
304272 2006 RG_{104}	17.0	X	48.43688	253.56031	52.05514	5.57623	0.1506083	0.21603384	2.7507737	20	11 8.7	20.6
304273 2006 RT_{117}	16.6	X	162.91643	190.66562	14.25050	8.21468	0.1577102	0.21631908	2.7483550	20	10 28.3	21.0
304274 2006 RF_{122}	16.8	X	266.99199	329.08004	182.70568	1.36828	0.0274568	0.22876269	2.6477639	20	—	—
304275 2006 SJ_{10}	16.6	X	310.60906	278.69738	245.49239	7.22315	0.1465396	0.24394978	2.5366999	20	—	—
304276 2006 SP_{15}	16.0	X	100.60945	299.60854	311.77835	3.52646	0.0155017	0.21341513	2.7732301	20	10 14.2	19.9
304277 2006 SL_{20}	16.6	X	318.19506	95.06067	238.22012	1.12871	0.0647121	0.19987584	2.8970935	20	7 19.5	20.4
304278 2006 SM_{24}	16.6	X	283.06069	179.22072	250.20094	7.53906	0.2074252	0.20979947	2.8050017	20	9 11.4	20.1
304279 2006 SG_{29}	16.9	X	295.40597	248.84058	206.00046	9.38054	0.3023275	0.22001457	2.7174929	20	11 2.3	19.1
304280 2006 SU_{29}	16.4	X	25.60492	101.92982	242.89168	5.19624	0.0397826	0.22215883	2.6999787	20	11 13.6	20.0
304281 2006 SG_{38}	16.3	X	241.30258	258.72941	214.44457	8.74900	0.1202355	0.21087065	2.7954943	20	9 27.6	20.4
304282 2006 SL_{47}	16.5	X	323.62458	149.18824	278.61377	2.10101	0.0630399	0.22177506	2.7030925	20	12 5.9	19.9
304283 2006 SD_{52}	16.5	X	356.51584	321.57059	14.40993	2.21478	0.1282004	0.21165689	2.7885672	20	9 27.2	19.7
304284 2006 SB_{53}	16.6	X	314.43998	196.82983	186.83709	1.96893	0.0953064	0.20930608	2.8094080	20	9 19.4	19.7
304285 2006 SO_{58}	16.4	X	124.85880	359.50648	245.74621	8.34827	0.0620000	0.22355745	2.6887058	20	11 10.5	20.3
304286 2006 SJ_{60}	16.0	X	48.89996	261.56586	42.50901	9.81869	0.1396290	0.21508006	2.7588999	20	11 5.2	19.8
304287 2006 SL_{61}	15.7	X	26.81192	256.42837	72.51232	7.18067	0.0543571	0.21422780	2.7662123	20	10 28.6	19.3
304288 2006 SJ_{64}	15.1	X	123.73503	214.48475	196.81069	27.14650	0.1978157	0.17496112	3.1659814	20	3 20.6	20.2
304289 2006 SO_{68}	16.3	X	290.90377	54.72151	17.49104	5.75460	0.0624472	0.21467812	2.7623425	20	10 22.1	19.7
304290 2006 SM_{70}	16.6	X	272.19992	48.13810	36.06290	5.34639	0.0425473	0.21061882	2.7977223	20	10 14.7	20.3
304291 2006 SW_{73}	16.4	X	319.45946	97.75351	187.69302	10.99599	0.0986541	0.19080934	2.9881539	20	5 15.6	20.3
304292 2006 SK_{77}	15.2	X	50.17061	10.51777	260.94692	19.90541	0.4604801	0.21844631	2.7304836	20	11 5.3	19.9
304293 2006 SQ_{78}	18.8	X	28.91700	33.00026	208.11582	36.05808	0.3391483	0.77692157	1.1718839	20	1 28.9*	20.5
304294 2006 SG_{82}	16.9	X	217.69453	356.99649	101.96464	1.13409	0.1679142	0.20084189	2.8877960	20	8 10.3	21.3
304295 2006 SM_{85}	16.4	X	316.68547	316.86916	58.34370	1.55910	0.0812547	0.20819481	2.8193962	20	9 13.3	19.8
304296 2006 SY_{87}	16.6	X	247.55841	236.43598	168.51384	1.12031	0.0336454	0.19790127	2.9163322	20	7 21.4	20.5
304297 2006 SZ_{87}	16.9	X	137.26396	299.99462	181.66438	6.06932	0.0867202	0.18979379	2.9988038	20	6 19.6	21.5
304298 2006 SF_{100}	16.6	X	348.39911	161.38932	171.92318	3.69593	0.1010051	0.20959248	2.8068481	20	9 6.8	19.9
304299 2006 SL_{101}	16.3	X	320.06242	146.88351	260.37758	4.10546	0.0438366	0.21755840	2.7379078	20	11 1.9	19.8
304300 2006 SS_{102}	16.9	X	282.64954	67.78761	326.82620	0.94969	0.1002943	0.20437764	2.8543932	20	8 14.7	20.6
304301 2006 SO_{106}	17.1	X	199.39452	75.12448	26.95246	0.69435	0.0909983	0.19902953	2.9053004	20	8 1.1	21.3
304302 2006 ST_{117}	16.1	X	220.05727	87.60373	19.16324	16.60057	0.0848587	0.20341807	2.8633627	20	9 7.1	20.5
304303 2006 SN_{121}	16.9	X	336.01259	74.42443	299.24998	3.70273	0.1693669	0.21160822	2.7889947	20	10 11.3	19.7
304304 2006 SZ_{129}	16.4	X	350.41045	30.50405	332.55845	2.91056	0.1070282	0.21376231	2.7702266	20	10 21.4	19.6
304305 2006 SW_{138}	16.1	X	52.02408	274.75420	33.24641	9.12200	0.2025379	0.22097333	2.7096268	20	11 22.2	20.0
304306 2006 SF_{141}	16.1	X	297.42791	171.65422	170.31041	12.30112	0.0696831	0.19688254	2.9263835	20	6 29.5	20.3
304307 2006 SN_{142}	16.4	X	120.00999	237.40604	22.29703	4.21145	0.2166456	0.22597691	2.6694800	20	11 28.6	20.9
304308 2006 SG_{144}	16.9	X	279.15746	66.38001	323.41191	1.19778	0.0750530	0.20243618	2.8726141	20	8 6.9	20.7
304309 2006 SA_{146}	16.8	X	238.91405	280.63255	199.90700	2.92483	0.0443153	0.21250429	2.7811489	20	10 17.3	20.7
304310 2006 SG_{157}	17.3	X	311.94690	82.19020	351.56498	2.84598	0.0486682	0.21952252	2.7215522	20	11 25.5	20.8
304311 2006 SL_{159}	16.3	X	163.70987	308.79677	190.45599	9.55038	0.0347030	0.19950471	2.9006853	20	8 7.1	20.7
304312 2006 SC_{161}	16.5	X	10.01401	247.00243	77.11662	2.77402	0.0820476	0.20836987	2.8178169	20	9 29.5	19.9
304313 2006 SD_{162}	16.8	X	341.02086	334.57054	15.61065	4.37274	0.0818346	0.20901585	2.8120081	20	9 18.5	20.0
304314 2006 ST_{164}	16.4	X	113.22198	328.08984	282.88408	3.53587	0.0158246	0.21693880	2.7431184	20	10 30.5	20.2
304315 2006 SU_{164}	16.2	X	141.53114	359.15337	222.06427	7.08131	0.0894580	0.21765124	2.7371291	20	10 29.7	20.2
304316 2006 SB_{167}	16.2	X	171.27343	74.94795	350.53751	9.04479	0.1199896	0.18799777	3.0178727	20	5 14.3	21.1
304317 2006 SF_{168}	17.1	X	256.76110	196.24862	196.84954	7.76434	0.2217255	0.19856907	2.9097900	20	6 21.8	21.6
304318 2006 SU_{169}	16.2	X	79.36271	316.26794	285.13756	3.16421	0.0536332	0.20902491	2.8119269	20	9 9.2	20.0
304319 2006 SE_{171}	16.8	X	244.76028	147.23229	344.09479	3.51220	0.0384349	0.21782529	2.7356709	20	11 8.1	20.4
304320 2006 SF_{171}	16.3	X	154.46223	201.53924	236.15469	1.47226	0.0657791	0.18814806	3.0162654	20	5 12.6	20.6

* The additional opposition: 11 10.4, $V = 19.6$

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
304321 2006 SS_{174}	16.7	X	20.62578	149.56749	172.23081	9.03098	0.0784579	0.21560135	2.7544511	20	10 13.5	20.1
304322 2006 SO_{178}	17.1	X	260.66822	37.89723	352.50994	1.42995	0.0731277	0.20046431	2.8914210	20	7 14.0	21.0
304323 2006 SH_{183}	16.8	X	111.21069	87.84546	192.55943	2.96529	0.0311641	0.22052076	2.7133328	20	12 7.4	20.5
304324 2006 SV_{184}	16.6	X	358.04334	348.35550	24.64880	6.81442	0.0445644	0.21470787	2.7620873	20	11 10.3	20.1
304325 2006 SM_{186}	15.7	X	212.12291	302.49369	208.62729	13.80949	0.0728539	0.21053710	2.7984462	20	10 18.9	19.5
304326 2006 SX_{187}	16.4	X	335.35726	30.67910	22.22386	6.73481	0.0246167	0.22005251	2.7171806	20	11 30.5	20.0
304327 2006 SC_{202}	16.9	X	342.77964	41.15202	328.70288	3.90699	0.0890379	0.21420470	2.7664111	20	10 16.7	20.3
304328 2006 SK_{206}	16.3	X	277.00734	53.34832	40.67260	5.56866	0.0533362	0.21385100	2.7694606	20	11 1.5	19.8
304329 2006 SD_{211}	15.7	X	335.00694	260.09598	68.69272	11.69349	0.1462510	0.20381870	2.8596093	20	8 9.9	19.0
304330 2006 SX_{217}	18.9	X	232.54940	176.17235	32.62700	21.04158	0.3100372	0.58770043	1.4115579	20	—	—
304331 2006 ST_{222}	16.8	X	30.81205	142.57802	176.52604	4.79887	0.1090817	0.21574258	2.7532489	20	10 28.4	20.2
304332 2006 SX_{223}	16.6	X	308.73771	194.55936	184.80108	1.75413	0.0756580	0.20389176	2.8589261	20	9 5.1	20.2
304333 2006 SX_{224}	16.3	X	28.51413	218.71715	106.08848	1.35385	0.0717454	0.21661385	2.7458611	20	10 26.7	19.9
304334 2006 ST_{231}	16.5	X	332.00225	43.33600	290.10321	2.97997	0.0838784	0.20467596	2.8516190	20	8 9.3	19.8
304335 2006 SD_{234}	16.1	X	11.92082	286.39996	345.67692	10.22087	0.0917126	0.20155818	2.8809503	20	7 24.4	19.7
304336 2006 SM_{249}	16.2	X	279.21725	247.22782	199.45215	8.64221	0.1682677	0.21153419	2.7896454	20	10 9.3	19.4
304337 2006 SM_{250}	16.3	X	359.37539	134.46184	205.96797	4.56315	0.0842678	0.21043247	2.7993737	20	10 3.4	19.7
304338 2006 SK_{251}	16.9	X	258.73477	230.33402	183.67731	1.79389	0.0570768	0.20298727	2.8674125	20	8 13.5	20.8
304339 2006 SO_{253}	16.5	X	113.05368	230.96547	13.40253	11.38036	0.1404077	0.21706264	2.7420750	20	10 29.3	20.8
304340 2006 SR_{256}	16.8	X	65.25054	88.23383	212.53003	8.15977	0.0297523	0.21464437	2.7626321	20	11 6.1	20.6
304341 2006 SN_{258}	16.8	X	296.30879	43.57632	347.14059	1.51859	0.0743165	0.20532134	2.8456402	20	9 2.4	20.3
304342 2006 SX_{258}	16.9	X	188.47001	218.69736	268.60395	0.89605	0.0218167	0.20317373	2.8656579	20	8 24.9	20.9
304343 2006 SF_{262}	15.6	X	295.20402	92.94480	200.60604	10.83953	0.1021337	0.18642228	3.0348519	20	4 19.9	19.8
304344 2006 SK_{263}	15.7	X	205.08992	294.44702	240.37058	10.16700	0.2778115	0.21148706	2.7900598	20	10 20.3	20.5
304345 2006 SD_{264}	15.9	X	203.29701	313.87141	235.43928	10.60647	0.1078930	0.21720756	2.7408552	20	11 22.9	19.9
304346 2006 SZ_{266}	16.5	X	245.94646	193.18209	278.56280	3.42104	0.0670963	0.20928699	2.8095789	20	10 9.2	20.3
304347 2006 SV_{274}	15.9	X	254.49690	90.46164	236.94857	8.43435	0.0809973	0.17954164	3.1119021	20	4 13.5	20.5
304348 2006 SL_{282}	16.1	X	324.55161	234.79540	128.93693	4.41663	0.1238599	0.21037657	2.7998696	20	9 8.9	19.1
304349 2006 SO_{285}	16.4	X	17.71564	292.74976	348.82909	0.46802	0.1094053	0.20414418	2.8565690	20	8 15.4	19.8
304350 2006 SX_{290}	16.7	X	29.74718	124.03033	203.16158	5.85646	0.0384030	0.21196136	2.7858961	20	10 25.7	20.4
304351 2006 SK_{295}	16.8	X	274.36838	179.14520	213.86915	1.20830	0.0716998	0.20306926	2.8666407	20	8 4.5	20.6
304352 2006 SD_{296}	16.8	X	253.72765	118.85929	340.91801	4.11231	0.0586538	0.21254124	2.7808266	20	10 6.1	20.6
304353 2006 SW_{310}	16.0	X	350.38373	126.77216	225.20148	5.33896	0.0614770	0.21056069	2.7982372	20	10 2.6	19.5
304354 2006 SB_{313}	16.7	X	168.51962	148.54832	36.83681	4.32002	0.0362550	0.21177828	2.7875015	20	10 15.5	20.7
304355 2006 SB_{315}	17.1	X	285.14959	286.76770	162.28516	3.69653	0.0601889	0.21455327	2.7634140	20	11 6.9	20.7
304356 2006 SW_{321}	16.9	X	335.06050	340.16645	37.87615	6.55355	0.0140000	0.21195112	2.7859858	20	10 16.6	20.7
304357 2006 SY_{322}	16.4	X	136.96353	150.42604	68.34159	3.78212	0.0560768	0.21286448	2.7780107	20	10 21.9	20.4
304358 2006 SJ_{329}	16.7	X	180.14898	281.49854	169.41006	3.67341	0.0469308	0.19292989	2.9662178	20	6 27.2	21.1
304359 2006 SF_{330}	16.5	X	231.13635	302.81859	82.82660	2.22175	0.0548580	0.19113968	2.9847101	20	6 3.1	20.7
304360 2006 SM_{333}	15.9	X	273.44830	260.44640	111.75776	3.09480	0.0128460	0.19821685	2.9132360	20	7 15.6	19.9
304361 2006 SA_{335}	16.3	X	303.61910	348.07469	55.97792	5.03803	0.0876804	0.21002601	2.8029842	20	10 3.1	19.7
304362 2006 SA_{336}	16.7	X	159.52224	116.92807	92.23669	4.89646	0.0351237	0.21525878	2.7573727	20	11 5.4	20.7
304363 2006 SW_{336}	15.9	X	262.33218	211.91819	81.47317	5.69911	0.1693967	0.18438167	3.0572026	20	3 6.5	20.6
304364 2006 SK_{340}	16.4	X	47.39513	261.49803	50.63046	4.87988	0.1022553	0.21597604	2.7512645	20	11 8.5	19.9
304365 2006 SJ_{341}	17.0	X	12.10294	286.05629	45.19872	5.01582	0.0778795	0.21168584	2.7883129	20	10 12.2	20.4
304366 2006 SP_{346}	16.1	X	242.58703	153.36549	209.34425	18.37331	0.0950846	0.18998430	2.9967988	20	5 14.8	20.6
304367 2006 SR_{361}	16.5	X	165.00857	347.80976	99.08774	2.57489	0.1689407	0.18431980	3.0578867	20	6 7.8	21.6
304368 Móricz	16.1	X	179.24767	56.38760	31.19925	12.91608	0.0662976	0.18825475	3.0151257	20	6 20.9	20.8
304369 2006 SZ_{363}	16.1	X	203.04054	165.10958	159.20842	6.89762	0.1408784	0.17688911	3.1429344	20	2 16.9	21.2
304370 2006 SC_{369}	18.0	X	81.75270	69.88507	25.11143	21.75812	0.0953121	0.38864815	1.8596519	20	2 27.9	19.9
304371 2006 SO_{373}	15.7	X	103.79915	287.99218	176.59514	17.34509	0.0247076	0.18370348	3.0647223	20	4 14.3	20.1
304372 2006 SD_{376}	16.6	X	162.73493	178.45128	37.25820	14.47405	0.1353298	0.21858544	2.7293248	20	11 10.9	20.9
304373 2006 SZ_{376}	15.6	X	342.71582	232.47187	67.33330	11.01228	0.0331592	0.19694256	2.9257890	20	7 13.3	19.5
304374 2006 SB_{378}	16.6	X	230.79712	290.37318	159.91848	2.08770	0.0711263	0.20602001	2.8392030	20	8 24.2	20.6
304375 2006 SD_{378}	16.4	X	270.35426	251.98975	158.50244	13.14962	0.1980203	0.20130404	2.8833745	20	8 1.7	20.4
304376 2006 SF_{381}	16.8	X	279.60010	250.42938	53.47093	2.71783	0.1058474	0.19018503	2.9946897	20	4 12.6	20.9
304377 2006 SN_{381}	16.7	X	77.18580	106.17736	110.31577	3.29879	0.0510410	0.20094741	2.8867850	20	8 5.5	20.7
304378 2006 SJ_{382}	16.1	X	191.48267	274.88422	132.52313	11.14078	0.0769344	0.18543658	3.0455971	20	5 18.9	20.9
304379 2006 SU_{383}	16.9	X	195.72514	350.65380	134.69692	7.03630	0.0880139	0.20285586	2.8686507	20	8 27.9	21.3
304380 2006 SZ_{384}	15.7	X	135.11076	254.49232	166.87550	14.20654	0.1550776	0.17628997	3.1500514	20	4 12.7	20.7
304381 2006 SA_{388}	16.2	X	69.44408	221.03156	64.85552	15.04310	0.0056077	0.21059193	2.7979604	20	10 24.5	20.2
304382 2006 SR_{392}	15.8	X	330.56798	24.68555	253.71268	7.74754	0.0579324	0.18996524	2.9969992	20	5 25.1	19.6
304383 2006 SZ_{392}	16.1	X	161.11243	10.35730	75.82876	1.69157	0.1198453	0.18115141	3.0934391	20	6 1.8	20.8
304384 2006 SD_{393}	16.1	X	260.11324	185.10075	231.94097	11.66484	0.1551540	0.20171203	2.8794852	20	7 31.6	20.4
304385 2006 SE_{393}	16.7	X	308.40253	22.94967	350.99536	1.45497	0.0795605	0.20294030	2.8678550	20	8 28.3	20.3
304386 2006 SS_{394}	17.2	X	265.81442	263.10992	196.14108	2.20486	0.1546539	0.21241415	2.7819357	20	10 8.6	20.5
304387 2006 SQ_{399}	16.5	X	53.11901	316.58145	315.86625	3.11963	0.0655965	0.20912613	2.8110194	20	9 17.8	20.4
304388 2006 SQ_{401}	16.3	X	123.06076	71.32177	54.35354	10.56586	0.0417059	0.18427201	3.0584154	20	6 2.7	20.7
304389 2006 SF_{402}	16.4	X	160.81661	84.97079	19.32206	9.57788	0.0410591	0.19079918	2.9882600	20	6 21.3	20.9
304390 2006 SH_{403}	16.3	X	327.57919	280.74207	33.65776	12.49797	0.1329950	0.19577921	2.9373678	20	7 2.8	19.9
304391 2006 SK_{403}	15.8	X	313.60498	26.46303	227.17809	8.48841	0.1174051	0.17867819	3.1219194	20	3 20.1	20.1
304392 2006 SM_{407}	17.5	X	289.06658	253.86900	186.75326	3.63876	0.0760704	0.21241442	2.7819334	20	10 29.9	20.8
304393 2006 SL_{413}	18.0	X	107.51395	19.60010	32.84882	22.59806	0.0584729	0.38581087	1.8687581	20	1 20.2	20.3
304394 2006 TA_{1}	16.3	X	229.59811	308.66647	64.33568	4.26198	0.1238952	0.18670785	3.0317566	20	5 10.5	21.1
304395 2006 TJ_{1}	16.5	X	351.18628	17.76762	354.31423	4.60182	0.1374459	0.21519105	2.7579513	20	11 6.7	19.7
304396 2006 TU_{2}	16.4	X	298.78421	215.59181	164.04732	6.59838	0.0810706	0.20389905	2.8588580	20	8 20.3	19.9
304397 2006 TD_{3}	16.3	X	28.78671	215.01516	70.64963	5.31885	0.0802052	0.20890632	2.8129909	20	9 7.4	19.9
304398 2006 TH_{8}	17.0	X	266.87867	227.13385	194.70600	1.60926	0.0525061	0.20297610	2.8675177	20	9 4.5	20.9
304399 2006 TP_{14}	16.3	X	342.82011	58.37247	325.90541	5.38865	0.0462014	0.21699992	2.7426034	20	11 3.0	19.9
304400 2006 TS_{22}	16.3	X	69.45517	221.88721	59.70645	5.61806	0.1265914	0.21067959	2.7971842	20	10 31.0	20.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
304401 2006 TW_{23}	16.1	X	144.98650	85.85220	46.57918	9.77609	0.0453131	0.19143641	2.9816250	20	7 10.3	20.5
304402 2006 TL_{27}	16.8	X	344.96107	295.93105	44.27754	2.20007	0.1405260	0.20539918	2.8449212	20	9 12.1	19.8
304403 2006 TA_{28}	16.9	X	207.72996	289.34775	168.24407	1.17708	0.1660008	0.19535911	2.9415773	20	7 29.3	21.7
304404 2006 TM_{28}	15.9	X	221.73809	116.78882	209.74757	13.56974	0.2047256	0.17984889	3.1083568	20	2 29.9	21.4
304405 2006 TE_{33}	16.4	X	17.74750	263.72674	35.55398	5.97777	0.0416141	0.20284263	2.8687755	20	9 4.1	20.2
304406 2006 TH_{40}	16.0	X	75.88456	323.01448	219.86813	5.14888	0.0926475	0.18688297	3.0298624	20	6 25.2	20.2
304407 2006 TU_{40}	16.4	X	208.74049	86.52812	9.01139	1.74629	0.0494944	0.19705460	2.9246799	20	8 6.8	20.6
304408 2006 TY_{40}	16.1	X	59.63475	330.28335	217.72365	9.56176	0.0437085	0.18607119	3.0386682	20	6 3.5	20.2
304409 2006 TT_{41}	16.3	X	128.20585	129.41396	38.60320	2.48223	0.0506797	0.19428330	2.9524263	20	8 5.6	20.6
304410 2006 TA_{47}	16.7	X	274.33749	174.67004	208.27190	1.45526	0.0646605	0.19601123	2.9350494	20	7 22.6	20.6
304411 2006 TK_{47}	15.5	X	71.90288	98.98458	49.46370	9.05489	0.0433560	0.17918135	3.1160722	20	4 30.3	19.8
304412 2006 TM_{48}	16.5	X	230.29966	308.59180	65.70568	2.38596	0.1450395	0.18710363	3.0274797	20	5 10.9	21.3
304413 2006 TW_{51}	16.6	X	190.79599	219.89352	208.47400	6.58560	0.1372125	0.18588730	3.0406720	20	6 8.8	21.6
304414 2006 TR_{52}	15.5	X	181.87058	185.22658	219.43677	12.39469	0.0173864	0.18053540	3.1004719	20	5 1.6	19.7
304415 2006 TV_{53}	16.6	X	333.55173	283.84932	57.17589	7.04598	0.1632079	0.20188658	2.8778253	20	8 23.5	19.7
304416 2006 TU_{56}	16.4	X	255.49350	30.00745	39.01109	8.93208	0.0887086	0.20265870	2.8705110	20	8 29.4	20.5
304417 2006 TP_{57}	17.8	X	161.23687	156.34013	207.67347	20.71929	0.1023713	0.38926871	1.8576749	20	1 21.5	20.4
304418 2006 TD_{58}	15.8	X	202.33728	352.02560	30.28108	11.64729	0.0871249	0.18502563	3.0501049	20	4 25.1	20.4
304419 2006 TT_{63}	16.1	X	292.22456	300.73481	69.88929	10.09510	0.0732043	0.20078908	2.8883024	20	8 2.5	20.0
304420 2006 TK_{64}	16.1	X	330.57152	178.62737	224.76854	8.69301	0.1710126	0.21721432	2.7407984	20	11 16.4	18.9
304421 2006 TY_{64}	16.2	X	319.15910	133.44793	264.40146	4.69894	0.0236663	0.21517304	2.7581051	20	10 18.5	19.8
304422 2006 TQ_{67}	16.4	X	319.08369	98.19207	197.42369	10.09808	0.0761204	0.19151761	2.9807821	20	5 30.5	20.4
304423 2006 TM_{68}	15.9	X	243.00309	118.20331	20.65700	16.07252	0.2692010	0.21105209	2.7938920	20	10 13.9	20.0
304424 2006 TJ_{74}	16.2	X	261.33466	352.16305	58.38707	14.25327	0.1241670	0.20010335	2.8948972	20	8 7.5	20.5
304425 2006 TG_{77}	16.0	X	306.72672	197.56840	161.99302	12.12614	0.0596728	0.20030004	2.8930017	20	8 6.3	19.9
304426 2006 TS_{77}	16.9	X	310.52285	196.77530	189.47026	1.81077	0.0778628	0.20608434	2.8386121	20	9 17.4	20.5
304427 2006 TX_{80}	16.2	X	133.35203	291.50024	263.21953	5.61027	0.0278850	0.20299971	2.8672954	20	9 10.3	20.3
304428 2006 TO_{81}	16.3	X	273.82736	324.76594	19.32463	10.65845	0.1132725	0.19114782	2.9846253	20	5 22.2	20.6
304429 2006 TT_{86}	15.7	X	261.50680	107.47418	241.24279	8.22425	0.0976558	0.18841840	3.0133796	20	5 17.7	20.1
304430 2006 TW_{87}	15.4	X	137.50113	33.38081	35.11117	22.24845	0.0767301	0.17684975	3.1434008	20	4 16.7	20.1
304431 2006 TY_{88}	16.1	X	188.41568	166.00553	233.91458	7.79893	0.0699777	0.18258959	3.0771738	20	5 2.6	20.6
304432 2006 TC_{90}	15.9	X	247.20191	301.23583	30.78742	9.90855	0.0634306	0.18106152	3.0944628	20	4 15.2	20.3
304433 2006 TH_{91}	16.2	X	218.35246	114.81186	232.25620	8.65973	0.0795372	0.17861759	3.1226255	20	3 28.6	21.1
304434 2006 TE_{94}	16.5	X	327.19592	356.21312	29.75213	4.85980	0.0799237	0.21148109	2.7901123	20	10 14.9	19.8
304435 2006 TQ_{97}	15.2	X	172.00687	22.07833	34.72207	16.86134	0.1235582	0.18114672	3.0934925	20	5 5.6	20.1
304436 2006 TK_{98}	15.4	X	140.20559	123.16417	29.30560	23.32654	0.4172332	0.18766245	3.0214665	20	8 25.2	21.6
304437 2006 TK_{99}	15.7	X	314.34162	50.98082	204.60712	20.72220	0.1611431	0.18391956	3.0623214	20	3 16.6	19.9
304438 2006 TM_{99}	16.1	X	227.83446	101.88347	32.80457	12.99872	0.0992081	0.20971735	2.8057339	20	10 15.2	20.1
304439 2006 TZ_{106}	16.8	X	303.21791	318.93163	39.34584	2.40059	0.1309410	0.19972033	2.8985972	20	7 23.2	20.2
304440 2006 TB_{110}	16.1	X	289.44465	76.58893	221.85950	7.19699	0.1716706	0.18508687	3.0494321	20	4 6.7	20.4
304441 2006 TV_{120}	16.0	X	277.12726	207.68409	143.08920	11.55897	0.0749269	0.19197447	2.9760512	20	6 13.9	20.3
304442 2006 TN_{121}	16.5	X	235.87709	72.69220	346.70521	3.43715	0.1846852	0.19240120	2.9716491	20	7 8.1	21.2
304443 2006 TN_{126}	16.4	X	145.26602	96.10471	28.78368	7.72628	0.1180208	0.19045113	2.9918995	20	7 4.8	21.2
304444 2006 TH_{128}	16.7	X	220.31847	84.32543	338.95672	1.83499	0.0361452	0.19567175	2.9384432	20	7 10.9	20.7
304445 2006 TD_{130}	15.4	X	303.97019	165.07745	138.02781	14.03666	0.1281311	0.19097056	2.9864719	20	5 14.7	19.6
304446 2006 UP_{3}	16.3	X	77.81387	126.94289	39.94375	2.03126	0.1496382	0.18516561	3.0485676	20	6 15.7	20.5
304447 2006 UR_{6}	15.8	X	263.58561	75.29562	48.12162	13.71166	0.1614257	0.21208293	2.7848314	20	11 5.6	19.4
304448 2006 UL_{9}	15.8	X	220.48447	148.84323	214.02173	9.78342	0.0411483	0.18118547	3.0930514	20	4 24.2	20.2
304449 2006 UX_{9}	16.6	X	341.84447	276.71211	52.33418	2.73195	0.1006865	0.19976493	2.8981657	20	8 20.6	19.9
304450 2006 UU_{11}	16.1	X	214.38176	10.53716	149.81528	2.11872	0.1723554	0.20962419	2.8065651	20	10 22.9	20.4
304451 2006 UO_{13}	16.0	X	163.83354	234.00023	210.00715	9.70443	0.0523643	0.18501700	3.0501998	20	5 31.2	20.5
304452 2006 US_{14}	16.6	X	241.43259	5.82799	87.80268	3.19088	0.0546572	0.20240709	2.8728893	20	9 14.5	20.6
304453 2006 UZ_{14}	16.4	X	259.05865	110.72072	205.84902	8.27074	0.1691631	0.18310116	3.0714396	20	3 26.9	21.2
304454 2006 UW_{20}	16.8	X	169.39239	192.10872	346.56820	3.36773	0.0384149	0.20891519	2.8129113	20	10 6.0	20.9
304455 2006 UF_{21}	16.7	X	21.38115	102.91831	232.42991	2.72405	0.1008299	0.21277105	2.7788239	20	11 1.8	20.1
304456 2006 UR_{22}	16.2	X	201.33352	121.75987	255.34012	0.67542	0.0777419	0.18783231	3.0196447	20	4 18.2	20.8
304457 2006 UB_{23}	16.4	X	216.53612	155.62201	5.17929	6.36390	0.0331921	0.21942574	2.7223523	20	11 10.4	20.2
304458 2006 UK_{27}	16.4	X	149.79763	184.55842	31.81732	4.85577	0.0136459	0.21233255	2.7826484	20	10 31.8	20.2
304459 2006 UV_{27}	16.4	X	244.52940	86.56333	26.44810	4.16167	0.0599880	0.20915072	2.8107991	20	10 12.1	20.2
304460 2006 UX_{27}	16.6	X	302.94948	161.41758	209.81606	5.48649	0.0873770	0.20201810	2.8765761	20	8 12.7	20.3
304461 2006 UZ_{30}	17.0	X	246.00573	132.91660	304.28177	0.86662	0.0483783	0.20206383	2.8761420	20	8 28.9	21.1
304462 2006 UG_{32}	16.3	X	340.90890	72.66233	214.08809	8.00950	0.0550570	0.19237976	2.9718699	20	6 20.8	20.2
304463 2006 UG_{41}	16.8	X	160.61885	30.28817	40.11539	2.34447	0.1384205	0.18114406	3.0935228	20	5 13.5	21.6
304464 2006 UP_{44}	17.0	X	303.24189	306.60782	61.24376	2.85741	0.0888514	0.19902482	2.9053462	20	8 11.5	20.6
304465 2006 UY_{46}	15.9	X	71.94644	130.82757	53.54200	16.38135	0.1142074	0.18452064	3.0556674	20	6 24.2	20.3
304466 2006 UC_{48}	16.1	X	216.38056	277.40343	223.06878	10.38939	0.1665409	0.21303924	2.7764913	20	9 28.0	20.4
304467 2006 UT_{51}	17.1	X	201.07955	54.09751	343.83341	5.23506	0.1510628	0.18596751	3.0397976	20	5 9.8	22.2
304468 2006 UV_{56}	16.1	X	197.38691	341.26710	205.78034	11.32462	0.1284258	0.22268429	2.6957296	20	11 13.7	20.2
304469 2006 UU_{65}	16.1	X	30.04870	260.38603	46.73945	6.27835	0.1112372	0.21154324	2.7895658	20	10 11.6	19.6
304470 2006 UU_{66}	15.9	X	272.51809	16.87285	66.46038	6.96771	0.0816301	0.21021435	2.8013098	20	10 10.9	19.5
304471 2006 UD_{74}	16.0	X	261.11730	297.44404	352.30966	6.30796	0.0727394	0.17900395	3.1181306	20	3 9.3	20.6
304472 2006 UC_{75}	16.1	X	250.93953	48.87682	19.35322	12.32758	0.1190106	0.20314546	2.8659238	20	8 19.3	20.3
304473 2006 US_{79}	16.2	X	331.67425	326.45609	355.86267	5.36545	0.0645062	0.19867591	2.9087468	20	7 26.9	19.9
304474 2006 UE_{84}	16.1	X	32.31769	189.32369	49.80180	9.41821	0.0504427	0.18943053	3.0026363	20	7 3.7	20.1
304475 2006 UD_{85}	15.9	X	274.42251	288.79088	49.66961	11.40857	0.1184497	0.18765890	3.0215047	20	5 16.9	20.2
304476 2006 UM_{86}	16.8	X	215.21135	161.03934	296.50265	1.01113	0.0229496	0.19749370	2.9203431	20	8 19.2	20.7
304477 2006 UY_{87}	15.7	X	170.92935	1.56075	49.70176	12.49866	0.0523318	0.17840886	3.1250606	20	4 29.2	20.4
304478 2006 UV_{88}	15.3	X	284.97258	280.45652	41.77928	15.95743	0.0859356	0.18707145	3.0278269	20	5 13.3	19.4
304479 2006 UL_{89}	16.3	X	214.10512	56.89623	14.09811	2.66342	0.0577617	0.19146750	2.9813023	20	7 11.3	20.6
304480 2006 UU_{89}	16.4	X	262.77887	0.83298	356.76288	1.61012	0.1798967	0.19054311	2.9909366	20	5 19.4	20.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
304481 2006 UC_{95}	15.9	X	83.42892	124.22817	56.86064	11.92145	0.0936831	0.18875147	3.0098336	20	7 3.4	20.2
304482 2006 UJ_{96}	16.4	X	110.86549	95.86028	58.49083	8.91954	0.1220520	0.18767922	3.0212866	20	7 5.6	21.0
304483 2006 UV_{99}	16.5	X	233.47619	203.91643	160.10512	3.91161	0.1215294	0.18585307	3.0410453	20	5 4.4	21.1
304484 2006 UP_{103}	16.9	X	215.82410	276.84151	168.31164	2.42776	0.0568255	0.19545587	2.9406065	20	7 30.9	21.0
304485 2006 UV_{105}	16.0	X	167.76583	161.21544	212.13288	16.67171	0.0241458	0.17242900	3.1969009	20	3 3.8	20.8
304486 2006 UF_{108}	15.5	X	326.37870	196.04882	65.06729	13.80018	0.0154595	0.18045746	3.1013646	20	5 4.1	19.8
304487 2006 UJ_{113}	16.1	X	74.59695	190.14752	22.23595	9.76843	0.0332612	0.19682846	2.9269196	20	7 27.5	20.3
304488 2006 UR_{113}	16.8	X	87.10525	242.70670	23.74086	4.61895	0.0353844	0.21136316	2.7911501	20	10 20.3	20.5
304489 2006 UB_{117}	16.7	X	317.50555	318.55929	26.47867	2.17271	0.0887265	0.20081436	2.8880600	20	8 2.4	20.2
304490 2006 UJ_{118}	16.8	X	249.26659	173.69512	178.23024	1.96653	0.1134451	0.18885536	3.0087297	20	5 6.3	21.2
304491 2006 UB_{121}	17.1	X	245.40511	307.27834	139.14291	2.77024	0.0392336	0.20441910	2.8540072	20	9 11.7	20.9
304492 2006 UU_{121}	16.4	X	203.52882	130.46419	40.53512	11.25962	0.1677407	0.21144752	2.7904076	20	10 25.9	20.8
304493 2006 UO_{124}	17.2	X	261.23942	125.21189	336.61261	2.60745	0.0493999	0.21433292	2.7653077	20	10 20.7	20.8
304494 2006 UF_{126}	16.0	X	179.96417	3.36383	314.70308	3.29294	0.0923379	0.16757100	3.2583931	20	1 20.7	21.1
304495 2006 UM_{136}	16.4	X	156.73003	77.63276	341.42550	4.51415	0.1605801	0.17861328	3.1226757	20	4 25.9	21.5
304496 2006 UG_{139}	16.2	X	143.90249	60.51612	358.56485	5.93396	0.1840364	0.17548088	3.1597267	20	4 16.1	21.3
304497 2006 UE_{141}	16.2	X	159.00792	4.49948	79.37385	3.26934	0.1525732	0.18122413	3.0926115	20	5 29.3	21.2
304498 2006 UW_{153}	16.4	X	23.73060	28.80401	265.94388	2.90865	0.1809746	0.21155105	2.7894971	20	9 21.9	19.6
304499 2006 UL_{157}	16.6	X	203.77360	118.03692	49.48884	4.43058	0.0350981	0.21359515	2.7716717	20	11 4.0	20.5
304500 2006 UK_{158}	16.5	X	74.42472	65.61869	152.02107	2.61535	0.0238243	0.19753547	2.9199315	20	7 29.2	20.6
304501 2006 UM_{162}	16.2	X	321.33992	322.21267	58.92374	6.08123	0.0514259	0.20829766	2.8184681	20	10 2.2	19.8
304502 2006 UZ_{163}	16.3	X	290.48852	226.42148	103.02543	3.36460	0.0337137	0.19149415	2.9810256	20	6 8.8	20.4
304503 2006 UY_{175}	16.4	X	74.17207	233.57527	68.14345	6.22726	0.0362198	0.21720189	2.7409029	20	11 19.7	20.1
304504 2006 UZ_{176}	16.5	X	286.48430	271.46611	95.47606	6.40765	0.1395467	0.19942641	2.9014445	20	7 7.4	20.3
304505 2006 UM_{179}	16.2	X	273.64444	320.41142	72.88669	8.73047	0.0943972	0.19882142	2.9073274	20	8 2.9	20.2
304506 2006 UR_{190}	16.0	X	155.36180	62.07260	323.41216	9.85299	0.2301992	0.17539258	3.1607870	20	3 18.3	21.5
304507 2006 UU_{190}	15.1	X	148.10236	31.08198	29.23293	21.76594	0.1297707	0.17819791	3.1275264	20	4 19.2	20.0
304508 2006 UP_{195}	16.7	X	236.22421	8.48278	41.91952	2.62122	0.0516939	0.19494424	2.9457493	20	7 12.2	20.8
304509 2006 UM_{197}	16.2	X	209.53420	7.88742	49.58169	2.99435	0.2023361	0.18840396	3.0135335	20	6 9.4	21.3
304510 2006 UT_{199}	16.1	X	259.21088	122.98230	309.77437	6.51439	0.0575264	0.20560928	2.8429829	20	9 6.3	20.1
304511 2006 UY_{201}	16.5	X	6.18448	292.16187	59.24237	3.03969	0.0880136	0.21530145	2.7570083	20	10 31.2	19.7
304512 2006 UY_{202}	16.1	X	284.02257	284.80648	84.15425	7.07565	0.0893645	0.19909646	2.9046492	20	7 14.7	19.9
304513 2006 UB_{208}	17.1	X	278.04610	193.55288	216.00699	1.32022	0.0618660	0.20285188	2.8686882	20	9 1.9	20.8
304514 2006 US_{208}	16.0	X	180.82833	28.57688	46.61822	10.78976	0.0637583	0.18741052	3.0241738	20	6 6.5	20.6
304515 2006 UO_{210}	16.6	X	280.95281	10.16497	305.81484	4.22351	0.0198621	0.18336689	3.0684715	20	5 10.2	21.0
304516 2006 UU_{212}	15.9	X	318.00187	286.02169	37.61118	10.36501	0.0832069	0.19234844	2.9721925	20	7 4.6	19.8
304517 2006 UH_{214}	16.7	X	298.04386	127.99632	259.48267	4.63150	0.0713218	0.20094567	2.8868016	20	8 28.9	20.6
304518 2006 UJ_{215}	16.2	X	233.14126	117.35606	26.57689	9.52884	0.1203597	0.21180596	2.7872586	20	10 28.0	20.0
304519 2006 UC_{218}	16.1	X	92.06056	149.00584	350.31506	4.57561	0.0940344	0.18110477	3.0939702	20	5 19.9	20.6
304520 2006 UJ_{219}	16.3	X	268.47952	354.67691	61.19875	10.24971	0.1213792	0.20420683	2.8559846	20	8 25.0	20.3
304521 2006 UV_{225}	15.9	X	266.19658	358.31148	46.96084	3.09202	0.0479889	0.20381657	2.8596292	20	8 15.3	19.8
304522 2006 UX_{227}	15.8	X	164.77933	234.25211	176.99031	11.16209	0.1358729	0.18121897	3.0926702	20	4 26.6	20.8
304523 2006 UC_{235}	15.8	X	173.83525	180.41211	281.23041	8.92161	0.1274104	0.18019017	3.1044308	20	7 3.3	20.7
304524 2006 UH_{235}	16.3	X	339.43245	89.69736	213.39406	5.33470	0.0815494	0.19804890	2.9148828	20	7 9.3	20.0
304525 2006 UQ_{243}	17.1	X	218.51935	39.54391	30.07388	5.87564	0.0731632	0.19623461	2.9328216	20	7 14.2	21.4
304526 2006 UD_{255}	15.5	X	170.97846	226.45392	233.06382	12.14868	0.2365503	0.18540507	3.0459421	20	6 27.5	21.0
304527 2006 UU_{256}	16.2	X	93.86174	39.76823	196.87062	12.56518	0.1797696	0.20958427	2.8069214	20	10 5.8	20.6
304528 2006 UH_{263}	16.5	X	204.26311	324.80130	56.88040	10.20599	0.1182736	0.18229576	3.0804795	20	4 27.8	21.4
304529 2006 UZ_{263}	16.2	X	343.46517	147.54272	215.05119	10.09135	0.1102805	0.21035185	2.8000889	20	10 8.2	19.3
304530 2006 UG_{267}	15.7	X	163.41199	41.71903	32.62804	8.42721	0.1246010	0.18241147	3.0791768	20	5 19.3	20.7
304531 2006 UL_{269}	16.5	X	214.48847	246.50311	226.47498	5.74733	0.0161833	0.20105490	2.8857560	20	9 6.2	20.7
304532 2006 UV_{269}	15.8	X	268.78802	352.29670	21.28981	9.87936	0.0760889	0.19282919	2.9672504	20	7 2.2	20.1
304533 2006 UJ_{270}	16.1	X	270.79663	126.76766	252.41018	7.41912	0.1191310	0.19466615	2.9485540	20	7 4.2	20.2
304534 2006 UA_{271}	16.0	X	176.05658	11.37527	50.36452	11.70445	0.0628306	0.18238760	3.0794454	20	5 16.2	20.6
304535 2006 UR_{271}	15.9	X	217.46202	121.16951	234.25450	15.98443	0.1144159	0.17919512	3.1159126	20	4 3.9	21.0
304536 2006 UT_{271}	15.6	X	120.08765	282.76465	231.59571	8.24136	0.1895757	0.18405148	3.0608579	20	7 18.7	20.7
304537 2006 US_{274}	16.4	X	301.27674	341.92308	36.05318	6.06873	0.0821439	0.20412363	2.8567607	20	8 25.5	20.0
304538 2006 UK_{276}	16.4	X	102.98122	350.11886	207.06910	6.66784	0.0151154	0.19992147	2.8966527	20	8 5.5	20.6
304539 2006 UX_{280}	16.1	X	300.85476	274.99739	53.18059	11.10011	0.0866388	0.19144683	2.9815168	20	6 12.7	20.0
304540 2006 UF_{283}	15.7	X	274.75542	228.84407	38.33065	17.34901	0.1562430	0.17604816	3.1529353	20	2 25.5	20.7
304541 2006 UJ_{283}	16.9	X	152.05182	309.58873	252.91314	1.43071	0.0261014	0.20819656	2.8193805	20	10 16.0	20.9
304542 2006 UT_{284}	16.4	X	256.17848	131.95305	221.50608	9.54911	0.1081848	0.18894359	3.0077930	20	5 16.6	20.8
304543 2006 UF_{285}	15.3	X	286.66235	211.08979	62.14625	17.97793	0.1068491	0.17369274	3.1813756	20	3 24.8	20.1
304544 2006 UP_{285}	16.3	X	264.33399	212.83716	225.75502	11.89483	0.0942254	0.20408195	2.8571497	20	9 12.8	20.4
304545 2006 UR_{287}	16.4	X	121.85108	334.95959	179.04506	0.85943	0.0591011	0.19027912	2.9937024	20	7 10.5	20.6
304546 2006 UC_{289}	16.6	X	343.72306	231.05588	25.02224	10.27242	0.0463026	0.18681098	3.0306407	20	5 13.5	20.6
304547 2006 UC_{314}	15.6	X	234.00508	240.01182	70.87555	7.62567	0.0706482	0.17291393	3.1909211	20	3 9.5	20.5
304548 2006 UO_{323}	16.8	X	9.71094	199.56701	97.25137	3.33915	0.0459258	0.20176735	2.8789589	20	8 18.6	20.6
304549 2006 UM_{325}	16.6	X	289.41097	202.67656	172.84378	13.09204	0.0590589	0.20575432	2.8416467	20	8 2.5	20.5
304550 2006 UD_{328}	16.3	X	108.39492	125.24431	49.61365	3.03897	0.0438149	0.19096678	2.9865113	20	7 20.2	20.5
304551 2006 UT_{328}	16.3	X	230.74982	97.64591	225.17304	9.06500	0.0755140	0.17486924	3.1670902	20	3 12.6	21.1
304552 2006 UB_{329}	16.2	X	155.04921	224.94287	238.83422	2.31892	0.1501767	0.18436196	3.0574204	20	6 18.7	21.2
304553 2006 UG_{332}	15.9	X	57.29132	19.83112	185.00758	17.42843	0.0576113	0.19244897	2.9711573	20	6 23.6	20.3
304554 2006 US_{332}	16.6	X	215.13670	303.28508	145.47411	9.83472	0.0702052	0.19717834	2.9234562	20	8 2.4	20.8
304555 2006 UC_{336}	15.9	X	42.79935	152.17375	43.66169	9.34120	0.1164827	0.18301936	3.0723548	20	5 28.4	19.8
304556 2006 UE_{337}	16.4	X	330.53696	216.34571	131.32541	2.91579	0.0783998	0.19968580	2.8989314	20	8 27.3	20.0
304557 2006 UL_{352}	16.6	X	263.58289	0.51380	42.27736	2.52681	0.0610297	0.19757676	2.9195246	20	8 5.5	20.6
304558 2006 UW_{359}	16.4	X	79.46881	27.17993	164.71501	3.10940	0.0872136	0.19105308	2.9856119	20	7 10.9	20.5
304559 2006 UP_{360}	16.6	X	264.92063	320.27562	104.93950	3.32294	0.0513922	0.20146507	2.8818379	20	9 8.2	20.4
304560 2006 VO_{3}	16.7	X	149.77276	83.97066	43.81703	2.73120	0.2247604	0.18742482	3.0240199	20	7 16.5	21.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
304561 2006 VO_{5}	16.8	X	295.66110	196.01533	194.53441	0.67663	0.0332203	0.20072866	2.8888820	20	9 5.2	20.7
304562 2006 VE_{6}	15.7	X	184.88719	28.18904	60.43436	9.65707	0.0941892	0.18775845	3.0204366	20	6 28.6	20.5
304563 2006 VQ_{6}	15.6	X	180.95327	354.16749	61.16761	13.23721	0.1368374	0.18190457	3.0848945	20	5 15.1	20.5
304564 2006 VG_{7}	16.4	X	188.93709	347.77712	58.82490	6.78595	0.1497654	0.18200262	3.0837864	20	5 11.5	21.3
304565 2006 VN_{8}	16.0	X	122.17806	44.31534	70.20065	10.19173	0.0723083	0.17945812	3.1128675	20	5 23.5	20.4
304566 2006 VF_{9}	16.9	X	193.52707	195.99326	197.01073	2.95160	0.1870901	0.18257558	3.0773313	20	4 28.8	22.1
304567 2006 VP_{11}	16.3	X	32.58066	232.37965	46.06669	2.58748	0.0278327	0.19842341	2.9112139	20	8 24.4	20.2
304568 2006 VE_{19}	15.3	X	176.77100	296.35947	43.48928	13.24265	0.1141325	0.16948557	3.2338079	20	2 17.9	20.6
304569 2006 VH_{19}	15.4	X	224.38088	77.38400	242.76264	13.54836	0.1983633	0.17675665	3.1445044	20	2 23.1	20.9
304570 2006 VF_{26}	15.5	X	24.40585	192.58674	51.98679	10.70790	0.0627440	0.18780232	3.0199662	20	6 30.1	19.5
304571 2006 VJ_{28}	16.6	X	170.94914	42.50885	23.05083	5.09486	0.1323070	0.18041288	3.1018755	20	5 16.4	21.6
304572 2006 VD_{29}	15.6	X	184.03041	42.11862	41.61842	7.38384	0.0293484	0.18600456	3.0393940	20	6 22.6	20.0
304573 2006 VM_{31}	16.8	X	332.97806	112.71727	265.20052	2.94175	0.1013005	0.21508772	2.7588345	20	10 12.3	20.0
304574 2006 VO_{34}	16.1	X	222.39759	336.87037	54.25307	9.36572	0.2213478	0.18691309	3.0295368	20	5 18.4	21.2
304575 2006 VL_{36}	16.1	X	90.03621	267.26658	235.48474	6.43632	0.1125179	0.17784723	3.1316363	20	5 25.9	20.5
304576 2006 VY_{36}	15.0	X	127.71327	201.45764	241.38899	12.97789	0.0450074	0.17790059	3.1310100	20	4 14.1	19.6
304577 2006 VX_{38}	16.2	X	148.55046	44.95239	43.31324	5.54152	0.1153701	0.18130170	3.0917293	20	5 22.1	20.9
304578 2006 VN_{42}	16.6	X	336.37372	148.98037	124.55810	2.36851	0.0380440	0.18637912	3.0353204	20	5 29.3	20.7
304579 2006 VS_{42}	15.6	X	208.61845	145.79089	236.87847	17.89624	0.2728684	0.18279017	3.0749224	20	4 24.4	21.1
304580 2006 VP_{44}	17.0	X	238.93876	286.05082	170.73650	2.08137	0.0258455	0.20295369	2.8677288	20	9 17.9	21.0
304581 2006 VB_{46}	16.6	X	330.34450	96.79171	254.93010	5.50034	0.0845274	0.20169586	2.8796391	20	8 29.0	20.1
304582 2006 VL_{46}	16.3	X	325.19950	221.78412	45.87204	10.31675	0.0259535	0.18206087	3.0831286	20	5 6.9	20.5
304583 2006 VY_{47}	16.5	X	358.32901	317.12063	344.57509	2.94795	0.0207369	0.19992781	2.8965914	20	8 6.9	20.4
304584 2006 VC_{49}	16.0	X	129.11985	187.90218	255.22916	6.26166	0.1120601	0.17484503	3.1673826	20	4 24.6	20.8
304585 2006 VV_{49}	16.2	X	180.55699	63.11931	33.62388	2.39159	0.0711332	0.18647162	3.0343165	20	7 4.9	20.7
304586 2006 VY_{49}	16.1	X	161.52930	37.17903	61.65741	12.57376	0.1234510	0.18276637	3.0751893	20	6 17.1	21.0
304587 2006 VV_{52}	15.8	X	243.00429	275.58488	35.34981	14.32490	0.2040049	0.17812839	3.1283400	20	3 10.7	21.1
304588 2006 VS_{53}	16.3	X	41.28942	270.51348	304.90098	4.36448	0.1043616	0.18477321	3.0528823	20	6 21.2	20.1
304589 2006 VE_{54}	16.0	X	348.97941	294.69507	17.11225	5.96072	0.0741724	0.19616005	2.9335647	20	8 9.2	19.7
304590 2006 VO_{57}	16.2	X	12.00367	231.11957	71.04081	11.83626	0.1178990	0.19909384	2.9046747	20	9 10.5	19.9
304591 2006 VU_{57}	16.5	X	291.72070	180.28181	152.76248	2.58107	0.0888501	0.18895769	3.0076433	20	6 7.2	20.6
304592 2006 VC_{60}	16.2	X	203.18421	335.59806	70.32154	10.62304	0.0324630	0.18393311	3.0621711	20	5 28.6	20.7
304593 2006 VC_{61}	16.2	X	330.88919	66.71218	247.28696	5.17458	0.2275188	0.19597093	2.9354518	20	6 27.6	19.1
304594 2006 VE_{63}	16.4	X	126.90873	64.85916	45.14641	1.91556	0.1161355	0.17826727	3.1267151	20	5 27.0	21.1
304595 2006 VW_{63}	15.6	X	251.00357	157.58744	235.07797	8.82732	0.0778593	0.19031452	2.9933311	20	7 2.2	19.9
304596 2006 VJ_{65}	15.6	X	249.75625	299.41597	65.83977	6.12051	0.2216833	0.18827211	3.0149403	20	5 12.0	20.3
304597 2006 VJ_{66}	16.2	X	228.42311	313.24788	92.19757	1.42768	0.0713507	0.18825758	3.0150954	20	6 23.4	20.5
304598 2006 VP_{69}	17.1	X	178.29777	299.71066	146.00468	1.70954	0.1466914	0.18375566	3.0641421	20	6 18.0	22.1
304599 2006 VA_{70}	16.3	X	252.96002	298.94581	77.78140	4.09551	0.1617035	0.18910069	3.0061268	20	6 4.4	20.8
304600 2006 VM_{70}	16.7	X	274.84294	201.26191	169.58078	0.83784	0.1948580	0.19314765	2.9639879	20	6 17.9	20.9
304601 2006 VW_{71}	15.5	X	350.87321	183.18000	60.75693	19.24890	0.1799151	0.18179842	3.0860951	20	5 7.2	18.9
304602 2006 VQ_{73}	16.6	X	139.21492	258.81274	212.67508	0.32770	0.1354603	0.18032847	3.1028434	20	6 12.2	21.3
304603 2006 VW_{74}	16.6	X	194.81574	226.51748	184.39310	2.56392	0.0521184	0.18307706	3.0717091	20	5 24.6	21.1
304604 2006 VF_{75}	15.9	X	148.17120	106.38078	62.47462	7.58215	0.1468853	0.19127724	2.9832789	20	9 4.3	20.8
304605 2006 VD_{77}	16.4	X	261.72269	188.25464	183.21763	3.04951	0.1468099	0.19144606	2.9815248	20	6 9.8	20.8
304606 2006 VM_{81}	16.2	X	302.43465	189.40394	157.65237	2.80182	0.2162337	0.19500242	2.9451633	20	6 22.0	19.7
304607 2006 VG_{83}	16.7	X	276.88599	307.37746	23.93934	1.97839	0.0260054	0.18564185	3.0433515	20	5 24.8	20.9
304608 2006 VQ_{83}	16.8	X	311.91992	338.30117	41.85625	6.77701	0.0762586	0.20313025	2.8660669	20	9 14.7	20.4
304609 2006 VD_{84}	16.9	X	227.49185	82.88633	33.27612	13.93030	0.2809407	0.20162166	2.8803456	20	9 6.2	21.8
304610 2006 VS_{84}	15.9	X	160.31856	119.52568	326.52554	8.77235	0.0620380	0.18369965	3.0647649	20	5 27.9	20.6
304611 2006 VY_{85}	16.3	X	50.70558	126.51848	76.91288	2.21402	0.0621696	0.18523214	3.0478376	20	6 13.4	20.3
304612 2006 VX_{86}	16.1	X	307.78617	240.07689	39.43653	12.55643	0.0905342	0.18317177	3.0706502	20	4 21.5	20.0
304613 2006 VV_{88}	15.9	X	133.95632	68.33995	34.75235	9.92583	0.1387105	0.18006929	3.1058200	20	5 26.2	20.8
304614 2006 VT_{96}	15.7	X	196.16547	164.19291	242.61596	9.01468	0.0572735	0.17969092	3.1101784	20	5 20.3	20.4
304615 2006 VO_{99}	16.3	X	190.31839	349.01864	76.56709	7.17019	0.1827758	0.18589265	3.0406136	20	6 3.8	21.3
304616 2006 VK_{105}	16.2	X	289.47847	83.58938	241.65440	9.65052	0.1087290	0.18862457	3.0111834	20	5 21.5	20.0
304617 2006 VW_{106}	15.6	X	357.43782	215.07811	98.92297	10.64972	0.0406142	0.19874365	2.9080858	20	8 25.7	19.5
304618 2006 VH_{109}	15.3	X	117.75241	232.61884	254.58772	15.35597	0.1645527	0.18077349	3.0977490	20	6 12.5	20.0
304619 2006 VA_{110}	15.9	X	159.07554	251.19431	200.31948	12.97606	0.2190443	0.18090847	3.0962079	20	6 9.8	21.4
304620 2006 VD_{114}	16.7	X	87.72445	176.96859	51.85301	3.10844	0.0006585	0.19829123	2.9125074	20	8 28.8	20.8
304621 2006 VO_{114}	16.6	X	93.07968	80.22096	21.39356	9.14455	0.0556478	0.17436338	3.1732128	20	4 1.0	20.9
304622 2006 VO_{118}	16.6	X	155.84107	79.87768	47.93956	1.84500	0.1094922	0.18782028	3.0197737	20	7 18.4	21.4
304623 2006 VN_{128}	15.7	X	314.66476	41.07326	283.65898	6.04214	0.1998215	0.19521906	2.9429840	20	6 14.6	19.0
304624 2006 VB_{134}	16.2	X	318.54558	273.49500	52.34123	9.49864	0.0655367	0.19092409	2.9869565	20	7 10.4	20.2
304625 2006 VJ_{136}	15.5	X	130.25658	174.33124	245.75530	11.20910	0.0564857	0.17143685	3.2092233	20	3 20.1	20.4
304626 2006 VA_{138}	16.3	X	94.80143	74.66509	73.98023	10.79867	0.0309468	0.18068879	3.0987170	20	5 27.9	20.7
304627 2006 VM_{139}	16.1	X	293.48976	98.37488	246.81155	8.80241	0.1067614	0.19046652	2.9917384	20	6 22.5	20.0
304628 2006 VP_{139}	15.5	X	34.56971	322.40960	248.20640	8.83307	0.0242035	0.18090556	3.0962411	20	5 27.1	19.7
304629 2006 VA_{140}	16.5	X	221.21806	324.06538	78.59466	6.91135	0.1425257	0.18626128	3.0366005	20	6 5.9	21.3
304630 2006 VR_{140}	16.6	X	167.37147	306.73576	110.12040	2.05154	0.0807680	0.17777509	3.1324834	20	5 2.6	21.3
304631 2006 VA_{141}	15.8	X	285.71473	106.81514	238.59791	8.22283	0.0892649	0.18795503	3.0183302	20	6 14.7	19.9
304632 2006 VT_{141}	16.6	X	147.06939	144.58837	35.13703	1.80956	0.0522935	0.19953909	2.9003521	20	9 11.9	20.8
304633 2006 VN_{148}	16.2	X	206.79710	305.56407	69.72808	11.00374	0.1169032	0.17838837	3.1252999	20	4 24.5	21.2
304634 2006 VU_{149}	16.1	X	7.33166	350.24059	72.80954	12.67257	0.0600161	0.22383261	2.6865018	20	—	—
304635 2006 VK_{150}	15.5	X	58.17614	141.55654	39.20845	17.92834	0.1495776	0.18113815	3.0935901	20	6 3.2	19.7
304636 2006 VM_{152}	15.3	X	68.63117	260.63753	235.75976	12.15376	0.1253752	0.17268696	3.1937164	20	4 19.9	19.7
304637 2006 VU_{155}	16.4	X	212.88398	16.54244	341.16673	7.62107	0.2122810	0.18161927	3.0881242	20	3 30.9	21.8
304638 2006 VA_{169}	15.8	X	216.47972	137.36973	269.19989	7.45283	0.0449181	0.18760589	3.0220739	20	6 13.3	20.1
304639 2006 VD_{171}	15.9	X	193.97273	323.51955	102.25940	1.79689	0.0665204	0.18318917	3.0704558	20	6 10.5	20.3
304640 2006 WW_{1}	19.1	X	282.46602	322.54735	240.37453	9.40305	0.5041566	0.58379449	1.4178471	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		°	°	°	°		°				
304641 2006 WY_1	15.8	X	224.90068	100.52341	243.44102	9.62914	0.1234569	0.17831938	3.1261059	20	3 28.2	20.9
304642 2006 WL_5	15.4	X	190.27071	316.67270	76.15251	11.36053	0.0676358	0.17949398	3.1124529	20	4 30.1	20.2
304643 2006 WM_8	15.8	X	231.70375	341.51175	77.92684	8.64176	0.1633695	0.19082077	2.9880346	20	7 5.7	20.5
304644 2006 WU_8	15.4	X	99.18115	45.42284	84.49528	10.77777	0.0646236	0.17714344	3.1399254	20	5 16.2	19.9
304645 2006 WY_8	16.0	X	68.57316	68.66487	106.27072	6.25621	0.0785190	0.17942839	3.1132114	20	6 3.9	20.2
304646 2006 WP_{11}	17.2	X	22.14639	231.46933	259.54204	19.17454	0.0103909	0.38055715	1.8859179	20	—	—
304647 2006 WY_{11}	15.6	X	279.03186	138.61633	232.86079	14.36237	0.0552869	0.19153034	2.9806501	20	7 11.9	19.9
304648 2006 WM_{14}	15.9	X	209.67273	332.04851	77.08988	18.16893	0.2716666	0.18546631	3.0452716	20	5 28.9	21.3
304649 2006 WZ_{14}	15.8	X	230.92826	350.19787	25.40246	2.64100	0.1841511	0.18426082	3.0585392	20	5 9.5	20.8
304650 2006 WS_{16}	15.4	X	9.06046	347.62037	249.90395	15.33317	0.0261397	0.18313255	3.0710886	20	5 27.5	19.6
304651 2006 WN_{22}	16.1	X	166.67301	17.59262	87.83190	8.93649	0.1390370	0.18372671	3.0644639	20	7 1.3	20.9
304652 2006 WC_{23}	15.7	X	150.73802	45.88711	85.17635	12.78283	0.0527715	0.18629131	3.0362742	20	7 14.9	20.2
304653 2006 WF_{25}	15.7	X	236.73723	182.61541	115.75589	7.26346	0.0869097	0.16836445	3.2481478	20	2 23.7	20.6
304654 2006 WB_{26}	16.1	X	224.30284	66.83866	64.24453	4.64224	0.0436061	0.21051624	2.7986310	20	10 13.9	20.0
304655 2006 WL_{26}	16.4	X	231.04994	31.34732	8.83208	5.31447	0.1050930	0.19096127	2.9865687	20	6 15.9	20.9
304656 2006 WW_{27}	15.3	X	242.86100	238.82212	65.12246	14.60997	0.1127847	0.17258281	3.1950012	20	3 10.9	20.5
304657 2006 WY_{27}	15.6	X	314.90855	227.75738	67.89351	11.13238	0.0593718	0.18416732	3.0595743	20	5 25.7	19.6
304658 2006 WV_{30}	15.5	X	299.69932	33.84251	246.13895	16.17527	0.1409499	0.17941360	3.1133825	20	3 28.1	20.1
304659 2006 WR_{33}	15.9	X	300.28244	194.93942	78.47216	11.67422	0.0475758	0.17771115	3.1332347	20	4 14.5	20.4
304660 2006 WS_{49}	16.1	X	195.22747	16.09951	55.43383	1.99325	0.1563952	0.18494755	3.0509634	20	6 15.9	21.1
304661 2006 WW_{49}	15.8	X	223.15430	184.78531	254.46816	9.92987	0.0523823	0.19201929	2.9755880	20	7 29.6	20.3
304662 2006 WZ_{54}	15.5	X	269.34179	300.38910	66.46223	11.26788	0.1587288	0.18975496	2.9992129	20	6 10.5	19.7
304663 2006 WL_{59}	15.9	X	115.86755	83.21777	38.18288	9.42903	0.0223573	0.18002219	3.1063617	20	5 16.8	20.3
304664 2006 WK_{69}	15.3	X	138.22241	8.16908	74.74884	16.96564	0.2306390	0.17390794	3.1787505	20	5 16.8	20.7
304665 2006 WB_{70}	17.0	X	303.51658	348.05159	27.90638	10.93653	0.0987249	0.20318153	2.8655846	20	8 26.7	20.7
304666 2006 WW_{72}	16.4	X	334.20280	71.44604	243.79530	8.86126	0.0201224	0.19299145	2.9655870	20	7 18.9	20.6
304667 2006 WY_{72}	16.1	X	288.36354	35.52286	282.57544	0.88015	0.1047349	0.18671051	3.0317278	20	5 11.2	20.0
304668 2006 WA_{78}	15.9	X	35.76843	140.97499	49.29737	4.99969	0.1112632	0.17727123	3.1384162	20	5 10.5	19.9
304669 2006 WK_{92}	15.9	X	8.63718	168.16155	70.75228	7.33288	0.0348876	0.18346253	3.0674051	20	5 29.1	20.0
304670 2006 WC_{93}	16.2	X	105.20024	304.66950	196.38118	2.90182	0.0290595	0.18220185	3.0815380	20	5 31.0	20.4
304671 2006 WA_{95}	16.2	X	84.45641	300.64499	226.01140	8.99087	0.0234219	0.18388297	3.0627276	20	6 5.5	20.5
304672 2006 WH_{95}	16.6	X	143.19908	54.81203	72.84441	6.65270	0.1268511	0.18520404	3.0481459	20	7 5.9	21.4
304673 2006 WP_{95}	16.6	X	211.29467	244.49812	130.95997	2.14519	0.1707845	0.18225385	3.0809519	20	4 23.9	21.6
304674 2006 WZ_{95}	16.9	X	138.85814	29.20600	73.09264	7.01067	0.1239181	0.18036328	3.1024441	20	5 30.8	21.8
304675 2006 WU_{98}	16.4	X	261.54096	317.43766	65.94898	13.08121	0.0697107	0.19099866	2.9861790	20	7 5.8	20.7
304676 2006 WH_{101}	15.8	X	135.15588	50.42519	40.68762	12.38803	0.1172487	0.17797089	3.1301854	20	5 11.5	20.5
304677 2006 WK_{103}	16.0	X	180.20190	342.76077	67.81621	6.74696	0.1613730	0.17955039	3.1118009	20	5 9.1	21.2
304678 2006 WJ_{104}	16.6	X	133.88428	89.57355	76.60497	0.77047	0.1914147	0.18787615	3.0191750	20	8 17.2	21.6
304679 2006 WM_{108}	16.1	X	213.75319	311.16137	74.86101	3.76380	0.0501852	0.18041394	3.1018633	20	5 15.1	20.6
304680 2006 WP_{109}	16.3	X	244.38771	278.89435	123.79960	0.71766	0.1352093	0.18968297	2.9999717	20	6 30.9	20.6
304681 2006 WV_{109}	15.7	X	131.99912	2.73160	83.19251	10.58089	0.0747005	0.17443194	3.1723813	20	5 2.5	20.5
304682 2006 WU_{111}	15.6	X	155.71394	49.48109	64.95822	12.85871	0.2654596	0.17852197	3.1237404	20	7 5.6	21.2
304683 2006 WW_{120}	15.3	X	255.21426	266.80291	82.72872	10.71041	0.1073946	0.18324824	3.0697960	20	5 12.8	19.8
304684 2006 WM_{126}	16.2	X	234.38430	124.38460	277.27925	8.12229	0.1098483	0.19051407	2.9912406	20	6 21.5	20.5
304685 2006 WK_{137}	16.2	X	163.29786	348.78591	73.80888	6.03962	0.1465981	0.17818657	3.1276591	20	5 8.2	21.3
304686 2006 WY_{139}	17.1	X	149.21130	335.20389	128.01123	1.79308	0.1422868	0.18092519	3.0960171	20	6 12.3	21.9
304687 2006 WC_{145}	16.2	X	289.11617	182.89470	118.38183	7.00642	0.1439177	0.18267979	3.0761609	20	4 18.7	20.6
304688 2006 WZ_{147}	16.4	X	92.53984	198.81714	289.56099	1.49575	0.0237077	0.17625106	3.1505150	20	4 27.3	20.8
304689 2006 WP_{148}	15.4	X	249.66593	77.98924	266.02333	8.88476	0.1027379	0.18100364	3.0951225	20	4 25.3	20.1
304690 2006 WM_{149}	15.7	X	82.54644	153.86052	70.22717	12.16372	0.0476641	0.19229555	2.9727375	20	8 26.2	20.1
304691 2006 WC_{162}	15.5	X	68.12647	266.02337	228.39009	7.50752	0.0104959	0.17398466	3.1778159	20	4 1.1	19.9
304692 2006 WJ_{162}	16.4	X	205.19569	112.75082	230.50362	5.43627	0.2249673	0.17657680	3.1466392	20	3 8.6	21.9
304693 2006 WF_{166}	16.5	X	98.67285	149.55760	67.40385	4.49362	0.0459876	0.19587336	2.9364265	20	9 2.9	20.7
304694 2006 WC_{167}	15.7	X	247.76846	258.88577	70.73611	10.90213	0.1179526	0.17924219	3.1153671	20	4 11.6	20.5
304695 2006 WU_{169}	15.5	X	123.50547	28.84700	72.02634	9.97694	0.0709512	0.17609869	3.1523321	20	5 9.3	20.2
304696 2006 WR_{171}	16.0	X	301.14099	91.18816	239.13724	10.49419	0.1096775	0.18956044	3.0012643	20	6 13.5	19.9
304697 2006 WM_{172}	15.5	X	98.78222	298.23554	250.32591	8.79313	0.0292779	0.18825708	3.0151008	20	7 20.9	19.8
304698 2006 WQ_{174}	15.7	X	77.79384	57.50987	81.09135	10.35493	0.0328341	0.17452559	3.1712463	20	4 27.3	20.2
304699 2006 WA_{175}	16.8	X	217.32705	330.24397	120.00227	2.28292	0.1210685	0.19252471	2.9703780	20	8 2.5	21.2
304700 2006 WF_{175}	16.0	X	309.41130	62.99984	238.04195	7.37834	0.2134738	0.18634370	3.0357051	20	5 1.4	19.7
304701 2006 WJ_{177}	16.4	X	206.97675	305.87323	108.74449	8.97531	0.1803847	0.18642049	3.0348714	20	6 6.0	21.5
304702 2006 WT_{179}	16.1	X	292.71181	236.34060	71.00892	10.81863	0.0274544	0.18190159	3.0849282	20	5 16.1	20.3
304703 2006 WL_{187}	16.2	X	230.38928	252.11023	121.11289	7.96730	0.2050433	0.18581381	3.0414737	20	5 7.9	21.3
304704 2006 WO_{189}	16.4	X	222.37189	250.47415	161.14943	6.10182	0.2577552	0.18817143	3.0160157	20	6 10.7	21.6
304705 2006 WW_{193}	16.6	X	217.69592	344.08427	56.08498	1.41249	0.1770179	0.18142874	3.0902859	20	5 28.1	21.7
304706 2006 WU_{194}	15.5	X	135.85307	344.34641	79.32905	11.18875	0.0767046	0.17306765	3.1890313	20	4 11.8	20.4
304707 2006 WD_{195}	15.3	X	224.73837	110.46335	229.45873	12.33731	0.0728575	0.17432956	3.1736232	20	3 26.7	20.2
304708 2006 WB_{198}	15.6	X	226.17261	277.96796	93.08750	10.59834	0.0934800	0.18004781	3.1060670	20	5 9.9	20.4
304709 2006 WR_{198}	15.7	X	211.47781	310.86906	101.58755	17.37100	0.1332316	0.18566983	3.0430458	20	6 10.7	20.5
304710 2006 WE_{199}	15.2	X	122.65757	180.45142	264.53287	12.62301	0.0003096	0.17123169	3.2117861	20	4 2.8	20.0
304711 2006 WO_{199}	16.6	X	118.30274	47.72920	108.60246	2.81554	0.0233498	0.18611695	3.0381702	20	7 5.2	20.9
304712 2006 WB_{200}	15.8	X	159.04701	11.12058	50.67524	9.99721	0.0736320	0.17652828	3.1472158	20	4 29.8	20.6
304713 2006 WL_{203}	15.8	X	214.73488	296.18641	87.36826	8.75533	0.2447068	0.17779041	3.1323034	20	5 5.2	21.2
304714 2006 XB_3	16.6	X	260.45037	57.52310	357.26892	1.51659	0.0635333	0.19664125	2.9287769	20	8 16.1	20.6
304715 2006 XG_5	15.2	X	133.23661	31.86335	96.19871	17.98409	0.1625456	0.17658816	3.1465043	20	6 28.5	20.3
304716 2006 XH_5	15.2	X	172.57580	332.55886	85.40773	8.61925	0.0948751	0.17463923	3.1698704	20	5 11.1	20.1
304717 2006 XU_5	15.8	X	171.39106	7.43192	23.27667	11.10090	0.2319469	0.17635273	3.1493041	20	4 9.4	21.3
304718 2006 XA_7	15.6	X	88.45395	96.79294	76.20181	15.54036	0.1053077	0.17967158	3.1104015	20	6 29.9	20.2
304719 2006 XT_{14}	16.1	X	250.22870	229.80556	98.80324	6.02772	0.0952488	0.17613499	3.1518989	20	4 13.6	20.8
304720 2006 XA_{16}	15.0	X	84.23096	46.14366	92.04009	20.06634	0.1082771	0.17087289	3.2162807	20	5 18.1	19.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
304721 2006 XZ_{18}	14.8	X	191.91753	101.92979	301.23723	26.68241	0.2042328	0.17838731	3.1253122	20	4 30.4	20.7
304722 2006 XZ_{21}	15.7	X	246.38245	260.60486	81.00347	12.96400	0.2216407	0.18159337	3.0884179	20	4 16.2	20.9
304723 2006 XR_{23}	15.6	X	59.81203	333.13093	228.54226	15.78701	0.2212844	0.18040759	3.1019361	20	7 13.8	20.0
304724 2006 XC_{25}	15.8	X	173.59934	176.48046	258.61830	8.14605	0.1084152	0.18063262	3.0993593	20	5 31.1	20.5
304725 2006 XA_{26}	15.3	X	238.39021	279.91880	85.89761	17.19747	0.2293031	0.18540869	3.0459025	20	5 7.2	20.5
304726 2006 XS_{26}	15.9	X	177.25637	325.72585	75.75493	10.63427	0.0991640	0.17656394	3.1467920	20	4 27.3	20.9
304727 2006 XR_{27}	15.3	X	167.86658	190.04996	267.57104	10.06135	0.1042687	0.18219820	3.0815791	20	6 22.2	20.0
304728 2006 XC_{29}	16.2	X	114.18022	63.71972	85.56171	11.96443	0.0405382	0.18307507	3.0717315	20	6 22.8	20.5
304729 2006 XF_{31}	16.0	X	189.46916	341.28124	51.88901	12.14235	0.1625153	0.17848782	3.1241388	20	4 27.3	21.1
304730 2006 XJ_{32}	16.2	X	163.70082	7.82494	70.63722	6.22218	0.1127023	0.17843920	3.1247063	20	5 25.8	21.1
304731 2006 XR_{34}	15.0	X	168.93899	356.12096	85.14623	28.94487	0.1212996	0.17886550	3.1197394	20	6 5.9	20.0
304732 2006 XF_{37}	15.4	X	199.73360	296.35143	105.26933	12.38949	0.0807096	0.17601430	3.1533396	20	5 20.5	20.4
304733 2006 XE_{38}	15.9	X	209.80575	330.46229	91.49870	6.94797	0.1292194	0.18175132	3.0866283	20	6 19.3	20.8
304734 2006 XH_{38}	16.0	X	150.99723	357.61917	95.81703	9.86792	0.1287028	0.17499943	3.1655192	20	6 2.2	21.0
304735 2006 XY_{39}	16.4	X	197.30943	285.32184	152.11741	2.71684	0.0660498	0.18487717	3.0517377	20	6 28.8	21.0
304736 2006 XQ_{40}	16.0	X	116.38685	254.36529	209.29812	3.38636	0.1367991	0.17218797	3.1998835	20	5 10.8	20.9
304737 2006 XK_{46}	15.9	X	162.95339	23.71434	62.44273	16.74814	0.1614938	0.18053491	3.1004775	20	6 3.6	21.0
304738 2006 XO_{47}	16.2	X	148.63057	187.12890	268.06601	3.54187	0.1060507	0.17934989	3.1141197	20	5 30.5	21.1
304739 2006 XE_{57}	16.8	X	202.66111	10.33294	98.83034	5.52705	0.1901213	0.19164033	2.9795095	20	8 7.6	21.8
304740 2006 XC_{65}	15.7	X	170.73499	268.53648	221.40503	19.64653	0.2066002	0.18782428	3.0197307	20	7 28.8	21.3
304741 2006 XT_{65}	15.2	X	269.85114	91.89464	247.66289	19.86636	0.0868067	0.18234867	3.0798837	20	5 17.6	19.6
304742 2006 XC_{70}	16.1	X	131.64214	27.52469	80.51429	8.45151	0.1399814	0.17749564	3.1357704	20	6 1.1	20.9
304743 2006 XQ_{71}	16.6	X	188.52644	283.63716	157.76616	1.90845	0.1380092	0.18021585	3.1041360	20	6 22.2	21.5
304744 2006 XZ_{71}	16.2	X	170.57339	136.36210	315.60953	3.91680	0.1022917	0.17848333	3.1241912	20	6 17.9	21.1
304745 2006 YR_{3}	15.6	X	303.96677	211.11172	73.64402	8.51303	0.0388365	0.17976531	3.1093203	20	5 1.5	19.9
304746 2006 YD_{5}	16.7	X	202.79864	324.80147	82.30864	7.42374	0.1578573	0.18425675	3.0585842	20	5 24.8	21.6
304747 2006 YL_{10}	17.1	X	112.28072	289.31778	96.70310	23.27626	0.0992661	0.37504698	1.9043449	20	—	—
304748 2006 YE_{14}	15.9	X	277.82110	212.71082	90.04394	10.88706	0.0562092	0.17873046	3.1213107	20	4 20.9	20.5
304749 2006 YZ_{17}	15.6	X	208.71918	322.82646	67.15073	10.68229	0.0932928	0.18023107	3.1039611	20	5 12.9	20.3
304750 2006 YJ_{20}	16.6	X	347.57030	358.55957	327.22954	1.12822	0.0763424	0.19782102	2.9171208	20	8 23.8	20.1
304751 2006 YX_{21}	16.6	X	230.41754	351.71695	46.46198	2.75687	0.1825126	0.18477194	3.0528962	20	6 5.8	21.5
304752 2006 YK_{38}	16.0	X	185.92838	294.35994	104.16452	10.62311	0.0548028	0.16973255	3.2306702	20	5 3.3	20.9
304753 2006 YO_{47}	15.6	X	231.48537	272.69236	71.51929	11.47143	0.0985929	0.17828799	3.1264728	20	4 14.2	20.5
304754 2006 YT_{52}	16.0	X	167.00782	275.74758	153.47163	5.41832	0.1740514	0.17359046	3.1826251	20	5 20.6	21.4
304755 2007 AW_{10}	15.3	X	186.26148	296.90328	131.94166	17.38542	0.2148203	0.17853904	3.1235414	20	6 7.1	20.9
304756 2007 AS_{11}	16.7	X	134.53264	157.97487	358.97027	1.24867	0.2416830	0.17971099	3.1099468	20	8 8.6	22.1
304757 2007 AB_{19}	15.7	X	167.79556	8.77566	78.16734	11.78945	0.1937284	0.17734020	3.1376024	20	6 10.5	20.8
304758 2007 AC_{19}	15.5	X	193.68723	303.05781	96.74666	15.38083	0.2437295	0.17626837	3.1503087	20	5 11.0	21.2
304759 2007 BO_{16}	16.0	X	188.67856	315.64697	108.43115	6.19636	0.2477080	0.17977105	3.1092540	20	5 31.6	21.4
304760 2007 BG_{21}	16.0	X	179.52718	3.68545	80.85366	4.46901	0.1654906	0.17971983	3.1098448	20	6 17.5	21.2
304761 2007 BV_{26}	16.6	X	166.13019	319.67785	110.33815	2.34171	0.1970848	0.17364446	3.1819652	20	5 20.5	22.0
304762 2007 CH	17.5	X	81.41252	266.90194	143.52194	23.08956	0.1446751	0.37266797	1.9124408	20	—	—
304763 2007 CQ_{25}	16.4	X	116.71711	21.29974	125.32729	7.48748	0.0898204	0.17702737	3.1412978	20	6 28.1	21.1
304764 2007 CF_{43}	15.9	X	109.29581	251.90777	234.30531	4.65940	0.1263784	0.17044480	3.2216638	20	5 29.5	20.7
304765 2007 DW_{4}	15.7	X	126.25746	171.87770	304.00210	5.19207	0.0620523	0.17309165	3.1887365	20	5 27.5	20.4
304766 2007 DW_{14}	16.4	X	142.60329	62.87311	33.52610	5.03165	0.1595353	0.16979966	3.2298189	20	5 28.9	21.6
304767 2007 DA_{38}	18.3	X	37.06875	284.14451	324.71815	3.45850	0.1571974	0.31812561	2.1252187	20	8 22.8	20.1
304768 2007 DB_{40}	16.4	X	183.42471	63.00176	352.84778	3.69040	0.2252086	0.17599200	3.1536060	20	5 16.2	21.9
304769 2007 DV_{77}	16.3	X	171.13264	249.98734	175.74000	1.43093	0.1934970	0.17387505	3.1791514	20	5 19.3	21.7
304770 2007 EO_{67}	12.7	X	286.76980	302.42068	2.75555	29.43864	0.0542301	0.08443278	5.1459078	20	4 21.6	19.7
304771 2007 EX_{149}	18.2	X	351.25339	165.78025	114.93056	3.11222	0.1645868	0.31451227	2.1414650	20	7 6.4	19.3
304772 2007 EQ_{184}	17.5	X	319.80242	65.68118	41.21785	23.73537	0.1103459	0.35520263	1.9746279	20	—	—
304773 2007 EF_{188}	13.5	X	228.85185	159.09558	194.87685	5.38349	0.0875397	0.08130954	5.2768538	20	4 23.6	20.7
304774 2007 GZ_{30}	13.7	X	290.12958	112.94672	209.85485	16.50182	0.0422081	0.08139607	5.2731132	20	5 29.9	20.7
304775 2007 GY_{46}	17.2	X	353.88839	91.95371	170.41220	4.16363	0.1279143	0.30594930	2.1812381	20	6 8.9	18.9
304776 2007 GZ_{62}	18.0	X	345.18971	315.09024	18.13623	2.08595	0.1531773	0.31848346	2.1236265	20	9 28.4	19.0
304777 2007 HB_{12}	16.8	X	199.13207	232.11320	46.03015	10.71246	0.2445538	0.27442968	2.3452114	20	—	—
304778 2007 HL_{17}	17.4	X	305.56922	215.73407	83.80958	7.03372	0.2219826	0.30346404	2.1931309	20	4 19.4	19.8
304779 2007 JY_{43}	17.7	X	291.56770	190.34967	86.27153	7.87542	0.1762306	0.29494923	2.2351390	20	3 7.2	20.7
304780 2007 LO_{21}	17.1	X	177.90344	132.44805	192.64690	6.46140	0.2549923	0.27570867	2.3379529	20	1 20.8	21.2
304781 2007 LM_{31}	17.1	X	189.31527	229.28853	59.35796	5.24731	0.2423583	0.27339488	2.3511254	20	—	—
304782 2007 MX_{3}	16.6	X	130.04128	75.83667	248.29613	8.38040	0.3175789	0.25873298	2.4391295	20	—	—
304783 2007 MN_{7}	17.1	X	262.48576	232.86820	84.87797	8.58926	0.1759438	0.29383861	2.2407676	20	3 29.9	20.4
304784 2007 MT_{15}	17.3	X	312.52531	7.89889	247.76487	6.13646	0.1541831	0.28865628	2.2675074	20	3 2.7	19.9
304785 2007 MK_{19}	16.7	X	231.12934	37.70257	275.57271	6.73609	0.1239576	0.28095305	2.3087676	20	2 18.0	20.3
304786 2007 ME_{26}	16.8	X	184.29538	228.92885	79.76561	8.07931	0.1428347	0.27023398	2.3694238	20	1 2.2	20.3
304787 2007 NF_{1}	17.2	X	167.25392	168.59764	138.85398	5.56590	0.2868504	0.26667976	2.3904299	20	—	—
304788 Cresques	16.9	X	150.07961	185.28079	153.27733	11.42532	0.2251829	0.26562264	2.3967679	20	1 12.9	20.6
304789 2007 NS_{3}	16.9	X	288.31246	13.61677	262.66205	4.39598	0.1403294	0.28790192	2.2714665	20	3 1.8	20.0
304790 2007 NE_{5}	17.4	X	142.03035	265.51864	82.39136	2.36552	0.2013382	0.26490400	2.4011007	20	1 15.2	20.7
304791 2007 NN_{7}	16.6	X	158.38480	259.69087	63.75045	11.94379	0.2611615	0.26509112	2.3999706	20	1 6.5	20.5
304792 2007 OD	16.9	X	167.14197	103.83502	239.77465	4.33606	0.2143314	0.26818363	2.3814851	20	2 1.6	20.7
304793 2007 OP_{9}	16.4	X	205.26763	36.82285	278.35148	11.40984	0.2104133	0.27196442	2.3593624	20	1 28.3	20.5
304794 2007 PW_{2}	17.4	X	124.60409	232.40182	104.65261	3.24507	0.2287055	0.26014162	2.4303164	20	—	—
304795 2007 PD_{3}	17.3	X	266.52165	267.30030	11.74406	4.41263	0.1790135	0.28309805	2.2970906	20	2 10.3	20.8
304796 2007 PS_{6}	17.1	X	147.31387	274.85728	86.74166	2.98919	0.2195060	0.26613507	2.3936904	20	2 8.8	20.8
304797 2007 PW_{6}	17.4	X	134.49909	66.20247	299.79155	1.79431	0.2408861	0.26574417	2.3960372	20	2 3.1	20.8
304798 2007 PF_{8}	16.7	X	173.52572	356.75858	327.92575	6.15481	0.1669399	0.26848052	2.3797291	20	1 14.4	20.3
304799 2007 PK_{10}	17.2	X	167.40858	209.09312	134.25512	1.30462	0.2298691	0.26928591	2.3749819	20	2 3.9	20.9
304800 2007 PH_{12}	17.3	X	156.81843	242.49230	93.61459	6.41753	0.2090630	0.26483063	2.4015441	20	1 16.0	20.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
304801 2007 PN_{14}	17.6	X	211.08546	207.91668	71.43321	3.26007	0.1942929	0.27047182	2.3680345	20	—	—
304802 2007 PV_{14}	17.0	X	168.05418	212.29816	123.70326	4.33294	0.1837011	0.26841585	2.3801114	20	1 23.4	20.5
304803 2007 PN_{15}	17.4	X	168.37649	295.61891	47.11273	3.06067	0.2147338	0.26894498	2.3769885	20	2 4.2	21.1
304804 2007 PY_{20}	17.2	X	128.12354	27.67651	333.57596	3.75236	0.2169832	0.26210601	2.4181583	20	1 19.9	20.6
304805 2007 PD_{27}	17.4	X	96.73805	33.28941	21.25329	4.42012	0.1458890	0.26385344	2.4074700	20	2 9.1	20.2
304806 2007 PA_{35}	17.4	X	179.66817	118.00762	211.73778	1.57638	0.2302769	0.26967923	2.3726721	20	1 28.1	21.3
304807 2007 PQ_{35}	17.5	X	182.50960	6.54087	337.94287	5.39218	0.1697825	0.27165963	2.3611268	20	2 15.5	21.1
304808 2007 PM_{36}	17.1	X	229.79177	136.63846	160.34901	10.18424	0.1513580	0.27651983	2.3333785	20	1 28.4	20.8
304809 2007 PB_{41}	16.6	X	122.82896	98.40775	278.47643	5.73304	0.1490682	0.26584551	2.3954283	20	1 22.4	19.6
304810 2007 PU_{42}	17.6	X	131.28979	214.02173	139.82371	2.86472	0.2245612	0.26364279	2.4087522	20	1 13.8	20.8
304811 2007 PJ_{45}	16.6	X	134.75806	38.55303	273.90825	1.51635	0.1575370	0.24561984	2.5251882	20	—	—
304812 2007 PO_{47}	17.6	X	166.07606	72.51751	328.02023	4.10992	0.1037630	0.27899124	2.3195781	20	4 4.3	20.9
304813 Cesarina	17.7	X	152.12297	236.13874	121.87613	1.75606	0.2127537	0.26700295	2.3885006	20	2 7.4	21.4
304814 2007 QQ_{5}	17.6	X	193.55657	116.19431	196.87424	1.54397	0.2590149	0.26955747	2.3733865	20	1 20.2	21.8
304815 2007 QE_{9}	17.3	X	297.81349	284.52112	350.57659	5.19141	0.1792909	0.28623302	2.2802873	20	3 9.3	20.2
304816 2007 QE_{10}	17.7	X	235.59791	224.71701	72.09134	2.25790	0.1951532	0.27517281	2.3409872	20	2 3.0	21.4
304817 2007 QV_{10}	17.1	X	354.06667	119.26078	338.13230	14.40385	0.0678844	0.25297824	2.4759808	20	—	—
304818 2007 QA_{11}	17.7	X	127.08936	227.01272	143.44711	2.13856	0.1959064	0.26288108	2.4134029	20	1 26.7	20.9
304819 2007 QC_{11}	17.3	X	141.67010	206.49851	154.29955	5.49993	0.1993296	0.26453395	2.4033394	20	1 29.9	20.9
304820 2007 QF_{16}	17.3	X	203.00485	100.69994	241.13221	1.50455	0.0956492	0.27674265	2.3321259	20	2 28.5	20.7
304821 2007 RB	17.5	X	176.18124	231.05840	106.21271	3.33057	0.2236696	0.27007980	2.3703255	20	2 3.9	21.3
304822 2007 RU	16.9	X	10.64409	332.17072	283.58009	4.64710	0.1486276	0.29731733	2.2232548	20	7 6.8	18.5
304823 2007 RR_{5}	16.9	X	333.52477	29.07517	237.51387	5.07660	0.1740031	0.29230089	2.2486194	20	4 24.4	18.7
304824 2007 RL_{14}	16.6	X	332.00059	209.44286	170.59786	11.51727	0.1588728	0.22986865	2.6392643	20	10 22.6	19.2
304825 2007 RA_{18}	17.3	X	97.73574	158.27751	233.12862	2.66436	0.2450266	0.25937433	2.4351070	20	1 24.2	20.0
304826 2007 RM_{19}	17.6	X	197.07337	181.63514	146.00412	2.00158	0.1979194	0.27151654	2.3619563	20	2 7.8	21.5
304827 2007 RU_{20}	17.3	X	172.02333	143.02549	155.85316	2.61752	0.2029894	0.26323836	2.4112187	20	—	—
304828 2007 RD_{21}	17.5	X	81.22220	242.69941	162.34439	3.77028	0.2434280	0.25830717	2.4418093	20	1 16.4	19.8
304829 2007 RO_{21}	17.8	X	158.99980	74.71863	233.52137	0.49485	0.1788487	0.26159259	2.4213213	20	—	—
304830 2007 RY_{22}	17.8	X	93.46099	186.86177	213.02721	1.86185	0.2169595	0.26010165	2.4305654	20	1 24.8	20.4
304831 2007 RQ_{23}	17.5	X	239.90718	27.61358	264.57959	1.65424	0.2103197	0.27561216	2.3384987	20	1 30.3	21.4
304832 2007 RW_{23}	16.7	X	170.81531	58.95899	278.55401	2.82774	0.1387804	0.26715947	2.3875675	20	1 24.4	20.1
304833 2007 RB_{24}	17.2	X	207.37972	359.62575	278.31855	3.05243	0.2609512	0.26785660	2.3834231	20	—	—
304834 2007 RR_{25}	17.8	X	171.62768	74.75512	203.65595	0.86901	0.1714980	0.26030865	2.4292767	20	—	—
304835 2007 RW_{27}	17.0	X	98.47174	327.98236	61.27822	5.91630	0.2361052	0.25983535	2.4322258	20	1 23.1	19.8
304836 2007 RP_{28}	17.3	X	261.23165	263.30174	33.92191	3.54838	0.1635956	0.28153039	2.3056101	20	2 29.7	20.7
304837 2007 RK_{32}	16.3	X	178.58488	297.95237	9.05741	12.59430	0.2598158	0.26570401	2.3962786	20	1 4.2	20.6
304838 2007 RM_{32}	16.7	X	112.07361	274.05587	113.26327	6.02713	0.2196891	0.26227623	2.4171119	20	2 4.0	19.7
304839 2007 RO_{32}	17.1	X	141.21113	251.89770	123.34274	4.54400	0.1979473	0.26620225	2.3932877	20	2 17.6	20.6
304840 2007 RJ_{36}	17.0	X	201.31755	110.01609	190.88316	5.05903	0.2360348	0.26771798	2.3842458	20	1 10.8	21.2
304841 2007 RU_{37}	17.6	X	142.54307	225.16354	102.09549	2.38462	0.1955364	0.25855705	2.4402358	20	—	—
304842 2007 RJ_{39}	15.6	X	278.95448	36.10246	39.52576	26.26801	0.1372915	0.21982793	2.7190309	20	10 11.2	19.2
304843 2007 RF_{40}	17.7	X	73.04707	275.91808	135.38709	3.17053	0.1824663	0.25656638	2.4528419	20	1 1.2	20.0
304844 2007 RD_{41}	17.2	X	108.70107	291.47070	93.38993	4.01902	0.1868069	0.26079741	2.4262406	20	1 22.5	20.0
304845 2007 RO_{41}	17.0	X	174.33248	293.32340	27.95043	6.60644	0.1484486	0.26548539	2.3975940	20	1 10.1	20.7
304846 2007 RM_{49}	17.9	X	72.91411	80.81242	353.94811	3.32379	0.1315792	0.26025457	2.4296132	20	1 27.9	20.4
304847 2007 RY_{52}	16.8	X	230.68971	354.33940	299.20754	4.33673	0.0567244	0.26844533	2.3799371	20	1 30.1	20.1
304848 2007 RD_{55}	17.3	X	307.14267	350.65267	264.45848	3.49676	0.1198330	0.27869430	2.3212255	20	3 2.6	20.0
304849 2007 RR_{55}	16.8	X	285.66460	331.72450	273.55972	3.92883	0.1175365	0.27145168	2.3623325	20	1 24.6	19.9
304850 2007 RH_{57}	16.7	X	232.01179	354.64805	313.55169	3.69158	0.1224258	0.27314799	2.3525419	20	2 15.8	20.1
304851 2007 RJ_{59}	17.6	X	240.92318	73.20121	181.11405	6.08995	0.0791295	0.26546165	2.3977369	20	—	—
304852 2007 RF_{68}	17.7	X	164.99826	165.65879	130.04889	1.80793	0.1831456	0.25963397	2.4334833	20	—	—
304853 2007 RO_{68}	17.3	X	128.07532	226.58366	144.56338	3.40459	0.2196672	0.26292088	2.4131593	20	1 31.7	20.8
304854 2007 RW_{68}	17.4	X	120.19724	264.31254	84.27303	2.46616	0.1845741	0.25779458	2.4450450	20	—	—
304855 2007 RZ_{68}	17.7	X	107.26722	268.67093	129.03619	2.74442	0.1952896	0.26231837	2.4168530	20	2 7.4	20.7
304856 2007 RA_{71}	17.5	X	133.71401	268.62128	145.40310	7.02516	0.1021644	0.27280615	2.3545068	20	3 20.1	20.7
304857 2007 RP_{72}	17.7	X	199.55688	136.36921	152.73225	2.58136	0.1646966	0.26646284	2.3917270	20	—	—
304858 2007 RQ_{77}	16.9	X	37.60477	123.12935	344.14050	3.13987	0.0835440	0.26508412	2.4000129	20	1 8.1	19.4
304859 2007 RS_{80}	16.8	X	356.35627	206.15304	167.72470	14.70136	0.1204050	0.23624362	2.5915683	20	11 26.7	20.1
304860 2007 RF_{93}	16.2	X	34.48965	290.13818	16.64337	11.89272	0.2934851	0.23333382	2.6130692	20	11 13.7	19.8
304861 2007 RY_{95}	17.7	X	170.93954	255.50050	38.90878	5.49266	0.1843909	0.25746972	2.4471012	20	—	—
304862 2007 RM_{97}	17.4	X	168.36350	255.43047	68.03523	2.81361	0.2231531	0.26294475	2.4130133	20	1 12.3	21.1
304863 2007 RS_{97}	17.3	X	131.80340	245.02376	90.81748	2.76856	0.2031555	0.25651955	2.4531404	20	—	—
304864 2007 RW_{98}	16.9	X	50.32043	354.95021	89.66861	4.71206	0.1468038	0.25605225	2.4561242	20	1 2.0	18.9
304865 2007 RF_{107}	17.0	X	132.02851	246.20731	166.37179	7.15274	0.0959378	0.27209265	2.3586211	20	3 13.9	19.9
304866 2007 RU_{114}	17.7	X	189.87331	28.29807	273.38711	2.62858	0.1938630	0.26446466	2.4037591	20	1 2.2	21.3
304867 2007 RU_{116}	17.5	X	105.44008	150.88837	205.66879	3.70490	0.1900809	0.25447305	2.4662751	20	—	—
304868 2007 RL_{131}	17.5	X	314.24113	201.34507	318.40250	4.04880	0.1295681	0.25473260	2.4645996	20	—	—
304869 2007 RO_{131}	16.9	X	166.10209	117.70579	230.55114	2.23825	0.1937939	0.26675895	2.3899568	20	2 5.7	20.6
304870 2007 RS_{137}	17.6	X	179.61706	53.48192	271.83420	1.09041	0.1909801	0.26694330	2.3888564	20	1 21.3	21.5
304871 2007 RA_{141}	17.1	X	118.87884	212.88574	162.22526	2.90830	0.1971136	0.26118398	2.4238460	20	1 23.2	20.1
304872 2007 RN_{142}	16.6	X	27.52091	164.83547	213.17464	5.94366	0.2816413	0.23772172	2.5808146	20	—	—
304873 2007 RD_{148}	16.8	X	232.46319	271.85307	27.82694	7.64900	0.1129793	0.27250879	2.3562193	20	2 9.6	20.4
304874 2007 RV_{148}	17.0	X	167.00967	257.94895	63.46416	4.16828	0.2057467	0.26329319	2.4108839	20	1 7.3	20.8
304875 2007 RH_{149}	17.5	X	150.76913	359.14206	345.46474	6.35618	0.1646516	0.26374728	2.4081159	20	1 17.4	21.0
304876 2007 RR_{151}	17.3	X	204.24248	118.29675	231.22387	4.86613	0.1673385	0.27841178	2.3227955	20	3 9.0	21.1
304877 2007 RF_{158}	17.2	X	241.86925	256.51158	53.67273	6.63773	0.1960670	0.27866158	2.3214072	20	2 27.2	20.9
304878 2007 RO_{158}	17.2	X	82.73399	39.21306	66.59814	2.32864	0.1409541	0.27155495	2.3617336	20	3 28.3	19.8
304879 2007 RE_{161}	17.8	X	202.20775	305.33892	4.00054	1.06673	0.2024701	0.27199528	2.3591839	20	1 21.4	21.8
304880 2007 RD_{166}	17.9	X	45.97191	35.88505	48.54964	1.26936	0.1878556	0.25821394	2.4423970	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
304881 2007 RB_{168}	17.4	X	152.34144	197.85935	88.64475	2.32215	0.1703140	0.25474339	2.4645300	20	—	—
304882 2007 RS_{168}	17.9	X	85.91229	23.61843	42.95367	3.20903	0.1512762	0.26353579	2.4094041	20	2 9.8	20.6
304883 2007 RZ_{174}	17.1	X	210.55093	224.16412	60.20895	5.09141	0.0798566	0.26190976	2.4193661	20	—	—
304884 2007 RW_{175}	17.2	X	333.98465	224.01297	184.29327	6.51089	0.2816261	0.23102028	2.6304859	20	12 16.6	19.2
304885 2007 RV_{176}	17.2	X	96.48970	159.00451	267.71250	0.52593	0.1661107	0.26456138	2.4031733	20	2 26.4	20.0
304886 2007 RN_{179}	17.3	X	311.31523	280.82845	212.61649	1.87018	0.0844969	0.24082038	2.5586284	20	—	—
304887 2007 RY_{182}	16.5	X	67.21781	352.17024	72.02623	7.47962	0.0854606	0.25870742	2.4392901	20	—	—
304888 2007 RE_{189}	17.2	X	8.58377	346.91998	32.19080	2.49661	0.1550417	0.23733386	2.5836256	20	12 25.4	20.3
304889 2007 RR_{193}	17.3	X	95.84570	52.22110	23.72060	2.27108	0.1730256	0.26532879	2.3985373	20	3 11.2	20.2
304890 2007 RR_{198}	17.6	X	196.14292	287.32512	22.03012	1.41448	0.1920382	0.27015909	2.3698617	20	1 16.4	21.4
304891 2007 RK_{199}	17.5	X	8.22234	65.10354	303.83593	2.43840	0.2708144	0.23540725	2.5977030	20	12 29.3	20.3
304892 2007 RR_{200}	17.1	X	307.15271	325.92767	297.14339	1.78915	0.1871614	0.28134478	2.3066240	20	3 3.7	19.7
304893 2007 RX_{200}	17.2	X	324.59366	261.82622	212.45488	3.61038	0.0885989	0.24599598	2.5226135	20	—	—
304894 2007 RJ_{209}	17.4	X	170.86743	286.46075	9.97269	14.39407	0.1682208	0.25898448	2.4375501	20	—	—
304895 2007 RJ_{213}	17.7	X	157.99833	334.77056	343.09903	2.64138	0.1995830	0.26188343	2.4195283	20	—	—
304896 2007 RS_{223}	16.7	X	50.72353	243.71891	22.89144	12.92285	0.2416069	0.22352586	2.6889591	20	10 8.3	20.2
304897 2007 RG_{225}	18.0	X	76.96189	215.20546	227.99377	2.02491	0.1291875	0.26577833	2.3958319	20	2 12.4	20.4
304898 2007 RE_{228}	17.2	X	108.84657	261.91377	46.90010	11.11776	0.2812453	0.24286401	2.5442548	20	—	—
304899 2007 RY_{235}	17.0	X	35.68610	61.87703	36.49859	7.68515	0.1036073	0.25314554	2.4748898	20	—	—
304900 2007 RV_{238}	16.5	X	113.46398	332.16865	67.06332	5.36965	0.2178825	0.26536438	2.3983228	20	2 22.6	19.7
304901 2007 RJ_{241}	17.4	X	133.15609	197.88661	125.24744	3.45781	0.2062949	0.25651913	2.4531431	20	—	—
304902 2007 RN_{245}	16.9	X	56.21566	61.06504	43.67835	6.51858	0.0764557	0.26320796	2.4114044	20	2 6.8	19.6
304903 2007 RA_{257}	17.1	X	212.18978	216.13950	83.19947	5.46883	0.2446815	0.27198416	2.3592483	20	1 18.1	21.2
304904 2007 RT_{258}	17.4	X	312.71568	42.68952	212.59914	2.75324	0.1458044	0.28001659	2.3139122	20	3 7.4	20.1
304905 2007 RK_{264}	17.6	X	311.79391	243.48391	328.24032	2.95376	0.1213539	0.27163051	2.3612955	20	1 13.3	20.4
304906 2007 RQ_{271}	16.9	X	39.54574	10.03127	42.70795	4.38798	0.1481264	0.24174665	2.5520886	20	—	—
304907 2007 RY_{277}	16.4	X	203.42541	244.06967	65.96996	11.00432	0.2535843	0.27005527	2.3704690	20	1 26.2	20.7
304908 2007 RM_{281}	16.7	X	57.62182	280.62912	102.28441	12.43603	0.3509341	0.24470924	2.5314487	20	—	—
304909 2007 RU_{283}	17.5	X	160.64981	178.13352	193.20576	3.76145	0.0963770	0.27153930	2.3618243	20	2 20.7	20.9
304910 2007 RV_{283}	16.9	X	142.47395	263.14220	61.37815	6.96488	0.1324621	0.25814811	2.4428122	20	—	—
304911 2007 RX_{284}	17.5	X	53.56076	300.75245	160.00336	2.53989	0.1590656	0.26041153	2.4286368	20	1 31.8	19.8
304912 2007 RS_{287}	17.2	X	52.04714	296.82974	152.48557	5.64603	0.1027388	0.26256855	2.4153176	20	1 7.5	19.7
304913 2007 RK_{289}	17.0	X	64.89067	114.29340	16.19275	7.24677	0.0811587	0.27156360	2.3616834	20	3 25.9	19.5
304914 2007 RD_{292}	17.3	X	284.34265	72.35288	127.76297	2.04875	0.1219823	0.25817687	2.4426308	20	—	—
304915 2007 RV_{294}	17.1	X	102.38402	109.32671	173.85230	8.78663	0.1816031	0.24163886	2.5528475	20	12 14.2	21.4
304916 2007 RA_{295}	17.9	X	57.48037	235.22984	238.31774	1.57490	0.1640001	0.26410804	2.4059225	20	2 27.2	20.1
304917 2007 RB_{296}	17.9	X	358.70837	221.74904	219.63272	3.21785	0.1513717	0.24454795	2.5325617	20	—	—
304918 2007 RK_{296}	16.7	X	208.56175	325.46465	205.80671	7.63544	0.2161071	0.22314016	2.6920568	20	10 27.8	21.1
304919 2007 RS_{296}	16.4	X	211.00251	131.16113	51.05653	16.19255	0.2178038	0.22497746	2.6773802	20	11 12.2	20.5
304920 2007 RN_{301}	17.6	X	179.64537	177.54470	131.82593	2.71933	0.2226371	0.26215103	2.4178814	20	1 4.5	21.5
304921 2007 RY_{301}	17.1	X	25.30206	241.49106	101.40290	1.64979	0.1160915	0.22927666	2.6438054	20	11 23.9	20.4
304922 2007 RQ_{302}	16.0	X	159.98254	343.23663	216.11877	14.75332	0.0676703	0.22373393	2.6872917	20	10 23.1	19.9
304923 2007 RG_{310}	17.3	X	266.01246	29.76481	244.77334	4.92107	0.2078663	0.27946407	2.3169610	20	1 29.9	21.0
304924 2007 RF_{312}	17.3	X	116.95399	311.17198	22.50762	6.19358	0.1435909	0.25473647	2.4645746	20	—	—
304925 2007 RG_{313}	16.9	X	153.36879	343.37332	39.28268	7.55558	0.1220065	0.27007855	2.3703328	20	3 5.7	20.3
304926 2007 RH_{313}	16.8	X	136.09794	239.66563	124.25026	8.81409	0.1299885	0.26269719	2.4145290	20	1 20.2	20.1
304927 2007 RC_{316}	17.3	X	175.23361	6.08113	302.30281	4.00527	0.1793822	0.26202232	2.4186732	20	—	—
304928 2007 RP_{320}	17.4	X	112.47712	287.09923	6.71339	8.57662	0.1739114	0.24435862	2.5338697	20	—	—
304929 2007 RF_{321}	16.8	X	73.81286	250.72918	198.70808	6.36846	0.0905854	0.26555444	2.3971783	20	2 9.4	19.6
304930 2007 RJ_{322}	17.6	X	109.47961	22.94117	6.48518	4.37507	0.1659677	0.26265207	2.4148056	20	1 26.9	20.5
304931 2007 RY_{322}	17.8	X	115.84879	184.82150	153.42832	3.02087	0.0988284	0.25304736	2.4755299	20	—	—
304932 2007 RB_{323}	17.3	X	93.43407	142.58617	150.24210	4.94149	0.2458644	0.24293440	2.5437633	20	12 21.1	21.6
304933 2007 RK_{324}	16.6	X	55.21734	116.44143	207.10543	24.88357	0.0976347	0.23246955	2.6195418	20	12 4.7	20.6
304934 2007 RZ_{325}	16.8	X	121.19858	56.40635	219.72271	16.83804	0.1981997	0.23761773	2.5815675	20	12 19.5	21.4
304935 2007 SE_{2}	17.3	X	236.81022	50.87876	232.13744	4.36151	0.2074140	0.27354709	2.3502532	20	1 16.5	21.2
304936 2007 SG_{2}	17.2	X	18.42724	268.81082	179.21509	32.18481	0.4144536	0.24528541	2.5274830	20	—	—
304937 2007 SM_{11}	15.8	X	327.16382	109.77669	303.04761	23.05380	0.2528812	0.22425790	2.6831043	20	11 25.8	18.6
304938 2007 SF_{16}	17.5	X	136.45314	175.29873	230.67185	1.77128	0.1717954	0.27101168	2.3648887	20	3 18.1	20.9
304939 2007 SP_{18}	17.8	X	33.10180	42.78716	317.01200	0.12282	0.1297966	0.23450332	2.6043742	20	12 29.1	21.1
304940 2007 SR_{19}	17.9	X	75.15035	61.89920	15.24814	1.58716	0.1639788	0.25871153	2.4392643	20	2 8.9	20.4
304941 2007 TC_{4}	17.2	X	258.52984	254.77822	343.14596	5.64716	0.0833360	0.26065177	2.4271443	20	—	—
304942 2007 TK_{4}	16.3	X	281.39208	245.68960	196.36520	21.60652	0.0562259	0.22818597	2.6522233	20	10 27.0	19.7
304943 2007 TO_{4}	16.8	X	214.95471	246.15230	44.99709	6.95755	0.1053959	0.26295848	2.4129293	20	1 11.3	20.5
304944 2007 TK_{6}	16.9	X	187.63581	102.29656	243.04693	5.27351	0.1384689	0.27271711	2.3550192	20	2 16.9	20.6
304945 2007 TF_{8}	14.3	X	32.21602	226.35121	293.83699	26.14080	0.2131078	0.17308483	3.1888203	20	3 17.2	18.4
304946 2007 TS_{9}	17.5	X	142.10737	322.48526	36.23277	1.35921	0.1923212	0.26225061	2.4172693	20	1 28.4	21.0
304947 2007 TZ_{9}	16.7	X	205.43914	297.85427	20.01285	6.11122	0.1196824	0.26802774	2.3824085	20	2 4.9	20.3
304948 2007 TT_{16}	17.4	X	82.86251	245.88080	150.58339	6.24749	0.1586626	0.25584547	2.4574474	20	—	—
304949 2007 TD_{17}	17.4	X	14.13131	199.57620	183.50767	4.73050	0.2474043	0.23606874	2.5928480	20	—	—
304950 2007 TA_{31}	16.6	X	8.05369	137.07245	215.19040	13.83810	0.0440163	0.22693050	2.6619964	20	11 1.4	19.9
304951 2007 TG_{37}	17.3	X	163.89334	285.35871	17.09481	1.81367	0.1820174	0.25769203	2.4456936	20	—	—
304952 2007 TY_{40}	17.0	X	348.16720	16.12014	43.31182	4.87533	0.1046256	0.23535198	2.5981097	20	—	—
304953 2007 TG_{41}	16.3	X	71.07080	285.97115	41.32023	15.45477	0.1443552	0.23716027	2.5848862	20	—	—
304954 2007 TP_{49}	17.1	X	59.50343	353.59823	355.27152	2.74999	0.1520149	0.24072329	2.5593164	20	—	—
304955 2007 TM_{51}	17.1	X	173.56516	218.10979	204.93399	1.40778	0.2617078	0.27631214	2.3345476	20	5 17.8	21.2
304956 2007 TW_{51}	16.9	X	288.00763	247.77736	229.51908	2.77524	0.0522014	0.23610462	2.5925853	20	12 23.1	20.1
304957 2007 TM_{52}	17.5	X	115.82743	132.54268	219.34247	3.88993	0.1644957	0.25321300	2.4744502	20	—	—
304958 2007 TT_{63}	17.5	X	50.28411	289.34656	55.36771	4.14529	0.2082350	0.23746796	2.5826528	20	—	—
304959 2007 TX_{66}	16.5	X	15.53509	62.23704	43.05643	9.30934	0.0616151	0.25292732	2.4763131	20	—	—
304960 2007 TT_{77}	16.7	X	171.94655	177.75877	235.84004	4.88846	0.1773066	0.27501455	2.3418852	20	5 2.1	20.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
304961 2007 TV_{83}	17.7	X	32.86905	130.88241	28.85670	2.25682	0.0788190	0.27147468	2.3621991	20	3 14.7	20.0
304962 2007 TR_{93}	17.5	X	78.68404	242.86828	168.05086	2.88241	0.1022278	0.25402200	2.4691937	20	—	—
304963 2007 TE_{94}	17.2	X	98.02844	240.41565	212.06684	8.05243	0.2579991	0.26670625	2.3902716	20	4 17.4	20.4
304964 2007 TR_{99}	17.4	X	72.00455	264.41814	151.38945	2.88164	0.1859587	0.25597233	2.4566354	20	1 6.3	19.6
304965 2007 TL_{125}	16.9	X	41.80007	188.71044	162.23150	3.36118	0.1199079	0.23634666	2.5908150	20	12 27.5	20.3
304966 2007 TM_{126}	17.0	X	63.39739	52.66858	37.55671	6.86855	0.0866966	0.25821959	2.4423614	20	1 30.8	19.8
304967 2007 TC_{130}	15.9	X	315.73015	37.41636	38.83816	22.77147	0.1106135	0.23105857	2.6301953	20	12 2.4	19.1
304968 2007 TE_{132}	17.2	X	79.23260	230.92605	194.77718	3.03719	0.1405760	0.25671153	2.4519172	20	1 25.9	19.8
304969 2007 TN_{132}	17.1	X	66.78453	233.40930	49.63417	3.22410	0.0417746	0.22558205	2.6725942	20	10 20.4	20.6
304970 2007 TG_{151}	16.8	X	245.37799	48.43857	260.41783	4.95449	0.1398593	0.27779180	2.3262502	20	2 26.6	20.3
304971 2007 TT_{151}	17.1	X	111.05785	52.90611	318.85471	3.97520	0.0896337	0.25771743	2.4455330	20	—	—
304972 2007 TF_{153}	16.6	X	60.52838	165.54238	280.80835	3.25653	0.1280214	0.25905999	2.4370764	20	1 21.3	19.1
304973 2007 TL_{160}	16.1	X	76.36747	315.58778	22.69915	10.78650	0.1460898	0.23958716	2.5674009	20	—	—
304974 2007 TG_{161}	17.0	X	135.12342	192.60831	190.74932	6.68961	0.1130771	0.26537271	2.3982726	20	2 8.7	20.4
304975 2007 TR_{162}	16.3	X	187.78045	208.52823	35.35355	5.43618	0.1253868	0.24635100	2.5201893	20	—	—
304976 2007 TF_{171}	17.2	X	42.46396	280.89156	19.85438	5.19407	0.1894779	0.23053394	2.6341841	20	11 2.4	20.7
304977 2007 TA_{177}	16.4	X	143.82324	195.96764	41.76068	10.16297	0.1681800	0.23470116	2.6029104	20	11 22.5	20.7
304978 2007 TE_{179}	16.2	X	296.32379	82.49075	56.01340	17.36556	0.0675452	0.24143427	2.5542894	20	—	—
304979 2007 TQ_{186}	16.9	X	350.88587	202.81407	183.29634	12.47356	0.1808843	0.23220517	2.6215297	20	12 8.8	19.9
304980 2007 TS_{203}	16.8	X	257.82372	19.32802	212.70221	10.02920	0.1456285	0.25323880	2.4742821	20	—	—
304981 2007 TR_{214}	17.2	X	77.53793	169.67699	168.26299	6.76300	0.2385637	0.24289486	2.5440394	20	—	—
304982 2007 TF_{215}	17.1	X	113.42952	12.50537	314.96831	2.98802	0.1392810	0.24635402	2.5201687	20	—	—
304983 2007 TH_{216}	17.0	X	359.71925	209.65831	298.21059	1.90772	0.1328284	0.25398867	2.4694097	20	—	—
304984 2007 TZ_{216}	16.9	X	36.11286	82.37024	236.32664	9.89999	0.0618409	0.22546678	2.6735051	20	10 27.6	20.5
304985 2007 TZ_{217}	17.1	X	76.84867	26.72347	327.46725	1.73181	0.1135829	0.24211433	2.5495041	20	—	—
304986 2007 TP_{218}	16.8	X	49.01629	276.91742	42.78469	4.61480	0.0900054	0.22858598	2.6491283	20	11 20.5	20.3
304987 2007 TT_{227}	16.9	X	98.90808	290.90728	4.95286	2.64686	0.0240570	0.23434922	2.6055157	20	12 14.2	20.5
304988 2007 TB_{228}	16.8	X	174.21995	192.47734	24.46392	4.52483	0.0255874	0.23366556	2.6105954	20	12 4.7	20.5
304989 2007 TU_{230}	17.8	X	69.77691	158.20750	149.16554	3.74535	0.2406911	0.23505438	2.6003022	20	12 17.3	21.9
304990 2007 TZ_{231}	17.3	X	64.23149	170.63106	211.37723	3.46124	0.1212992	0.24463246	2.5319784	20	—	—
304991 2007 TN_{239}	16.6	X	294.22859	277.72536	219.39963	21.10488	0.1191794	0.23733095	2.5836467	20	—	—
304992 2007 TV_{240}	17.4	X	88.73781	127.47102	275.73442	2.76391	0.2035451	0.25936725	2.4351513	20	1 20.1	20.0
304993 2007 TV_{244}	16.9	X	43.91667	103.57284	236.80624	12.82468	0.2073264	0.23670711	2.5881842	20	12 27.3	20.7
304994 2007 TR_{248}	17.0	X	85.20709	122.10338	314.03425	5.03773	0.0815781	0.26302809	2.4125035	20	2 9.6	19.8
304995 2007 TS_{248}	17.4	X	148.09135	253.81947	101.71832	8.65332	0.1555979	0.26448635	2.4036277	20	1 26.7	20.8
304996 2007 TG_{254}	16.2	X	218.25811	193.92282	58.46510	8.15448	0.1093718	0.25192329	2.4828882	20	—	—
304997 2007 TL_{258}	16.2	X	174.86207	233.29000	346.60297	3.71962	0.2267544	0.23985588	2.5654830	20	11 26.2	20.6
304998 2007 TS_{261}	16.9	X	56.72426	268.00738	33.00252	4.74166	0.1820868	0.22978680	2.6398910	20	11 18.7	20.6
304999 2007 TY_{262}	16.8	X	207.05979	70.86655	214.56035	5.33083	0.1085954	0.25617500	2.4553395	20	—	—
305000 2007 TJ_{263}	16.4	X	250.25861	187.99037	46.52792	3.38753	0.1324784	0.25335596	2.4735193	20	—	—
305001 2007 TQ_{267}	16.9	X	110.03959	241.68260	33.89595	4.73737	0.1475785	0.23730467	2.5838374	20	12 8.6	20.9
305002 2007 TQ_{269}	16.8	X	224.27567	34.83935	166.15434	2.91874	0.0983162	0.24184136	2.5514222	20	—	—
305003 2007 TW_{289}	16.9	X	113.24910	345.51071	50.36178	6.92161	0.1734196	0.26224961	2.4172755	20	2 12.4	20.1
305004 2007 TR_{290}	16.2	X	320.39134	280.01723	83.98007	6.77577	0.0650729	0.21919340	2.7242758	20	9 9.5	19.6
305005 2007 TX_{319}	16.9	X	40.11620	127.30679	212.52882	11.09483	0.2284439	0.23358150	2.6112218	20	12 24.9	20.8
305006 2007 TC_{322}	16.0	X	187.84409	81.92821	150.89584	5.41389	0.1197855	0.24237743	2.5476588	20	—	—
305007 2007 TT_{328}	17.1	X	30.38292	19.00359	341.60119	3.88572	0.1231965	0.23471252	2.6028264	20	12 25.9	20.6
305008 2007 TU_{330}	16.5	X	169.91246	350.68255	279.04136	3.08764	0.1690331	0.24625171	2.5208667	20	—	—
305009 2007 TL_{331}	16.9	X	49.17544	353.88563	7.85536	4.48605	0.0842350	0.23790571	2.5794838	20	—	—
305010 2007 TM_{332}	16.9	X	301.23704	135.25647	17.71865	4.17740	0.1721669	0.24167571	2.5525879	20	—	—
305011 2007 TY_{334}	16.6	X	172.00675	231.39847	27.44532	1.50982	0.1244129	0.24158984	2.5531928	20	—	—
305012 2007 TB_{339}	17.3	X	328.89652	268.04101	225.79680	11.92004	0.0935675	0.24530179	2.5273704	20	—	—
305013 2007 TN_{343}	16.8	X	156.19901	146.82534	98.10123	5.66300	0.1644121	0.23823083	2.5771364	20	12 13.8	21.0
305014 2007 TT_{355}	16.2	X	324.59093	283.15568	143.07114	15.61627	0.0566550	0.23279510	2.6170991	20	12 11.1	19.7
305015 2007 TO_{357}	16.7	X	271.42078	232.98473	20.96794	6.62179	0.0965981	0.26703953	2.3882824	20	1 25.3	20.0
305016 2007 TS_{360}	17.0	X	339.49034	185.77071	158.40189	6.72070	0.0134798	0.21589437	2.7519582	20	9 8.1	20.4
305017 2007 TS_{361}	17.3	X	356.26997	349.56390	50.25098	6.24662	0.2716239	0.23285968	2.6166151	20	—	—
305018 2007 TF_{362}	16.2	X	62.39785	195.27579	59.59596	16.86329	0.2468984	0.21574531	2.7532256	20	10 12.8	20.5
305019 2007 TH_{362}	17.6	X	288.18569	102.28562	86.12226	1.47100	0.0750103	0.24683693	2.5168807	20	—	—
305020 2007 TT_{363}	17.2	X	358.66941	343.77003	59.79756	5.02835	0.2086788	0.23298602	2.6156691	20	—	—
305021 2007 TR_{381}	17.0	X	336.53013	248.06739	82.57962	3.41881	0.2023050	0.21990421	2.7184020	20	8 13.1	19.3
305022 2007 TK_{383}	17.1	X	332.79446	321.29064	214.90718	6.14599	0.0848849	0.25670497	2.4519590	20	1 1.9	20.3
305023 2007 TD_{384}	16.6	X	77.19405	191.15946	82.41555	12.86430	0.1524553	0.22426117	2.6830782	20	11 7.0	20.7
305024 2007 TQ_{389}	16.7	X	279.43027	178.20579	87.31741	3.67290	0.1702789	0.27349231	2.3505670	20	2 7.9	20.1
305025 2007 TQ_{391}	16.5	X	345.00614	161.32017	21.48720	7.53349	0.0362003	0.26500727	2.4004768	20	2 6.4	19.5
305026 2007 TT_{395}	17.0	X	112.17347	0.31133	314.43279	4.52057	0.1759851	0.24588650	2.5233622	20	—	—
305027 2007 TW_{397}	16.8	X	320.35498	303.92563	270.82821	5.29403	0.1378334	0.26456358	2.4031599	20	1 25.9	19.7
305028 2007 TD_{400}	16.2	X	15.41387	319.12310	52.29138	15.29152	0.1959797	0.23241268	2.6199691	20	12 29.5	19.6
305029 2007 TV_{403}	16.8	X	216.10782	273.01499	346.12715	2.39818	0.1575671	0.25352298	2.4724328	20	—	—
305030 2007 TZ_{404}	17.1	X	0.45060	159.88966	296.95092	1.60640	0.0477757	0.24502769	2.5292549	20	—	—
305031 2007 TG_{414}	16.2	X	41.26105	307.67558	55.18800	14.22208	0.2014987	0.23642269	2.5902595	20	—	—
305032 2007 TT_{418}	16.6	X	214.28071	295.65955	217.97923	3.74836	0.1519517	0.22400949	2.6850875	20	10 17.5	20.7
305033 2007 TM_{419}	17.3	X	100.08613	66.66158	250.93659	3.26570	0.2392627	0.24240098	2.5474938	20	—	—
305034 2007 TC_{421}	16.0	X	332.90443	265.70346	163.90404	21.62731	0.0927830	0.23535614	2.5980791	20	12 28.9	19.5
305035 2007 TZ_{422}	17.2	X	349.43087	200.89921	243.34255	1.92917	0.1642501	0.23271809	2.6176764	20	—	—
305036 2007 TK_{425}	16.7	X	120.92622	184.79126	77.31665	6.27815	0.0176783	0.23034408	2.6356314	20	11 27.6	20.1
305037 2007 TU_{425}	17.3	X	107.78208	90.92822	190.84662	3.53710	0.0927901	0.23340441	2.6125424	20	12 11.4	21.2
305038 2007 TQ_{426}	17.5	X	15.36626	47.27782	304.93223	4.64834	0.1617668	0.22988793	2.6391168	20	11 27.8	20.6
305039 2007 TF_{434}	17.3	X	80.74994	163.37732	224.70658	9.99676	0.1502124	0.25321982	2.4744058	20	—	—
305040 2007 TP_{436}	16.9	X	334.52974	4.56498	105.97244	6.43551	0.1624889	0.24080673	2.5587252	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
305041 2007 TK_{449}	17.2	X	139.52833	71.23883	260.27884	6.14616	0.1452685	0.25194348	2.4827556	20	—	—
305042 2007 TV_{451}	16.7	X	201.95073	35.52123	147.57850	4.40444	0.1036981	0.22790911	2.6543708	20	11 17.5	20.5
305043 2007 UP_{1}	17.2	X	114.50414	357.47045	22.59586	4.50760	0.1549518	0.25794059	2.4441222	20	1 20.3	20.3
305044 2007 UB_{8}	17.0	X	44.02644	205.26868	255.46842	10.20308	0.1576341	0.25435275	2.4670527	20	1 12.1	19.3
305045 2007 UV_{12}	17.2	X	192.53900	204.03296	55.07852	3.15384	0.1794567	0.26039223	2.4287568	20	—	—
305046 2007 UL_{16}	17.3	X	345.99091	148.43707	26.58227	2.65285	0.1133643	0.26311777	2.4119554	20	1 15.8	19.9
305047 2007 UV_{21}	16.2	X	114.96328	216.38434	52.09427	8.08051	0.1659837	0.23436700	2.6053840	20	12 4.5	20.5
305048 2007 UT_{23}	16.8	X	128.38793	184.13357	76.96447	5.20519	0.2224235	0.23591115	2.5940026	20	12 8.9	21.1
305049 2007 UZ_{23}	17.0	X	278.08854	337.34308	144.07493	2.78205	0.1522435	0.23056161	2.6339734	20	12 1.7	19.9
305050 2007 UT_{40}	16.8	X	115.80336	268.55673	24.15640	4.86874	0.1587448	0.24046533	2.5611464	20	—	—
305051 2007 UB_{42}	16.7	X	122.03066	358.01172	282.87946	4.35926	0.0472496	0.23594723	2.5937381	20	12 24.3	20.4
305052 2007 US_{42}	16.7	X	54.15098	161.04921	207.11187	8.39011	0.0443017	0.23841999	2.5757731	20	—	—
305053 2007 US_{58}	17.4	X	77.16977	89.33870	230.08800	4.57059	0.2797957	0.24032719	2.5621278	20	—	—
305054 2007 UY_{60}	16.7	X	337.15285	197.09949	202.37522	1.73638	0.1437934	0.22829946	2.6513443	20	11 25.9	19.5
305055 2007 UD_{62}	17.8	X	330.31258	120.99623	318.13300	0.70106	0.1871877	0.23816052	2.5776436	20	—	—
305056 2007 UD_{65}	17.5	X	41.36603	265.36105	188.70037	1.85431	0.1433668	0.25356927	2.4721319	20	—	—
305057 2007 UL_{65}	17.2	X	47.95509	167.50076	175.67726	3.35238	0.2610926	0.23576313	2.5950882	20	—	—
305058 2007 UP_{72}	17.7	X	357.08908	214.83736	221.81101	3.59999	0.1782878	0.24054582	2.5605750	20	—	—
305059 2007 UL_{76}	16.9	X	290.37571	202.74850	277.63193	1.95511	0.0869038	0.23409930	2.6073698	20	12 27.9	19.6
305060 2007 UY_{77}	17.4	X	323.79589	62.65343	349.53565	2.07887	0.0961105	0.23138419	2.6277271	20	11 17.9	20.2
305061 2007 UA_{80}	16.7	X	306.32863	339.46849	21.00994	1.82580	0.0827502	0.21593258	2.7516336	20	8 8.2	20.1
305062 2007 UA_{83}	16.4	X	215.98200	311.95911	222.31054	13.12319	0.1022749	0.22931357	2.6435217	20	11 21.9	20.1
305063 2007 UQ_{83}	16.6	X	84.46570	38.51519	227.08519	10.47700	0.0438591	0.22300677	2.6931302	20	10 17.7	20.5
305064 2007 UM_{85}	16.6	X	233.06001	44.05271	60.01852	3.35898	0.0559682	0.21855520	2.7295766	20	9 19.5	20.3
305065 2007 UF_{86}	16.2	X	189.27757	302.19109	221.58328	7.12456	0.1983175	0.21773241	2.7364488	20	9 30.2	20.7
305066 2007 UU_{96}	17.2	X	313.69095	63.09677	49.23774	5.50122	0.1039583	0.23618856	2.5919710	20	—	—
305067 2007 UO_{98}	17.4	X	94.45638	278.62530	53.62051	6.93176	0.2373723	0.24371927	2.5382991	20	—	—
305068 2007 UY_{99}	17.1	X	55.86482	93.67465	236.82877	4.60250	0.2379862	0.23450970	2.6043270	20	12 31.3	21.1
305069 2007 UD_{100}	16.0	X	206.63234	328.89141	241.81380	6.32381	0.1509695	0.23308298	2.6149437	20	12 20.8	19.8
305070 2007 UU_{100}	17.1	X	353.75444	202.18651	242.50065	3.52707	0.2343217	0.23777777	2.5804090	20	—	—
305071 2007 UC_{102}	16.8	X	294.63131	19.40659	77.46129	2.91182	0.0484240	0.22880484	2.6474387	20	12 4.1	20.1
305072 2007 UQ_{103}	16.6	X	8.71633	329.08900	82.90134	4.21766	0.1028873	0.23590771	2.5940278	20	—	—
305073 2007 UJ_{104}	16.7	X	289.39422	272.34035	218.92990	4.99412	0.1826647	0.23105980	2.6301860	20	12 31.9	19.3
305074 2007 UK_{104}	16.0	X	325.44150	253.85405	229.78763	14.15291	0.0477471	0.24010673	2.5636958	20	—	—
305075 2007 US_{105}	16.6	X	79.66904	265.71926	73.67061	13.28469	0.2084698	0.23959842	2.5673204	20	—	—
305076 2007 UZ_{106}	16.5	X	32.57182	280.84711	44.81917	10.81008	0.0851455	0.22585306	2.6704558	20	11 5.9	20.0
305077 2007 UC_{109}	17.1	X	231.29747	111.74397	51.16540	3.03734	0.1349143	0.22945368	2.6424454	20	11 20.8	20.6
305078 2007 UC_{111}	16.9	X	116.60816	8.82274	217.34739	12.96100	0.1231917	0.22396019	2.6854815	20	10 11.5	21.1
305079 2007 UD_{116}	15.9	X	113.84336	214.36190	60.27435	22.64876	0.0170716	0.22988601	2.6391314	20	12 2.4	19.5
305080 2007 US_{118}	16.0	X	108.38136	198.09591	58.23481	12.15514	0.0389768	0.22322637	2.6913636	20	11 6.4	19.9
305081 2007 UT_{119}	17.4	X	343.12170	334.07406	209.50172	4.43437	0.1126319	0.26430655	2.4047177	20	1 20.9	20.2
305082 2007 UV_{127}	15.8	X	41.76293	39.27158	246.54378	16.43097	0.1802192	0.22001503	2.7174892	20	10 4.8	19.7
305083 2007 UA_{128}	16.7	X	118.42906	323.62887	334.21968	2.96438	0.2053291	0.24183486	2.5514679	20	—	—
305084 2007 UJ_{129}	17.2	X	333.14980	305.42441	68.34043	7.91876	0.1427171	0.22215608	2.7000009	20	10 14.3	20.1
305085 2007 UZ_{129}	17.1	X	35.09235	307.17857	24.18737	3.37290	0.0578687	0.22505876	2.6767353	20	11 11.8	20.6
305086 2007 UL_{131}	16.2	X	354.04730	33.66197	351.67025	13.04830	0.0636513	0.23046737	2.6346914	20	11 23.6	19.8
305087 2007 UC_{136}	16.4	X	73.86219	17.30861	312.53506	9.02645	0.1447682	0.23994423	2.5648532	20	—	—
305088 2007 UV_{141}	16.3	X	252.33598	321.06326	248.41817	11.51805	0.1083525	0.24378259	2.5378596	20	—	—
305089 2007 VO_{2}	16.0	X	156.78649	97.63625	171.48266	13.99327	0.0591422	0.24238846	2.5475815	20	—	—
305090 2007 VQ_{4}	16.2	X	309.04948	100.11881	58.76980	26.62088	0.5149946	0.23027700	2.6361433	20	—	—
305091 2007 VX_{11}	15.8	X	125.03418	199.10581	95.16859	14.73963	0.0999641	0.23914610	2.5705567	20	—	—
305092 2007 VG_{12}	17.2	X	117.31122	201.63005	190.21783	1.07279	0.1876399	0.26598468	2.3945926	20	2 10.2	20.4
305093 2007 VM_{14}	17.6	X	318.67847	346.72299	130.69383	1.20523	0.1054548	0.24113539	2.5563997	20	—	—
305094 2007 VM_{15}	16.9	X	350.50042	350.04369	48.75757	7.01116	0.1519681	0.22933650	2.6433455	20	12 19.4	19.8
305095 2007 VR_{30}	16.6	X	328.97529	9.57449	339.60006	5.67816	0.0418588	0.21774900	2.7363098	20	8 30.4	19.8
305096 2007 VB_{37}	16.7	X	7.56907	283.60154	154.21294	13.27555	0.1277108	0.24329124	2.5412754	20	—	—
305097 2007 VR_{42}	15.6	X	267.88325	270.57785	77.71145	12.21178	0.0193873	0.19106612	2.9854761	20	6 5.7	19.7
305098 2007 VZ_{44}	16.9	X	300.11621	139.62456	329.68432	4.09687	0.0860354	0.23366020	2.6106354	20	12 28.7	19.8
305099 2007 VE_{48}	16.6	X	279.20623	211.68659	296.90264	4.57794	0.0484674	0.23783462	2.5799978	20	—	—
305100 2007 VJ_{49}	16.4	X	54.98786	270.33228	27.52643	10.61630	0.1786050	0.22663157	2.6643368	20	11 10.5	20.2
305101 2007 VS_{49}	17.0	X	239.23016	107.14320	2.12436	4.76297	0.0998232	0.21951287	2.7216319	20	9 26.1	20.8
305102 2007 VQ_{55}	16.9	X	293.53454	338.77153	135.72453	3.42206	0.0443627	0.23348570	2.6119360	20	12 27.0	20.0
305103 2007 VT_{55}	17.2	X	285.45642	301.89186	125.80455	4.47661	0.0819060	0.22209303	2.7005119	20	10 10.2	20.5
305104 2007 VS_{57}	17.0	X	291.25496	288.42211	168.80452	4.51842	0.1561802	0.22742209	2.6581590	20	11 20.5	19.8
305105 2007 VC_{59}	16.9	X	340.16070	66.38729	357.48855	3.12424	0.1282153	0.23228506	2.6209286	20	—	—
305106 2007 VJ_{60}	15.8	X	264.25961	145.53966	44.90526	11.16798	0.2310126	0.23776147	2.5805270	20	—	—
305107 2007 VP_{60}	16.8	X	79.06292	83.90399	266.82602	4.28674	0.1680675	0.24132959	2.5550280	20	—	—
305108 2007 VZ_{60}	17.0	X	90.58940	343.76258	346.14790	2.16849	0.2255204	0.24155027	2.5534716	20	—	—
305109 2007 VS_{61}	16.5	X	119.26718	300.88441	15.73924	1.98599	0.1424378	0.24261152	2.5460198	20	—	—
305110 2007 VR_{72}	15.8	X	78.92811	96.02498	242.89766	12.40743	0.1110760	0.23678166	2.5876409	20	—	—
305111 2007 VG_{75}	16.9	X	245.35550	132.02130	54.70337	9.85176	0.1019502	0.23902055	2.5714568	20	—	—
305112 2007 VF_{77}	17.2	X	44.62807	238.86872	63.48607	2.92429	0.1132984	0.22431932	2.6826145	20	10 27.2	20.8
305113 2007 VK_{83}	16.6	X	290.24575	337.30125	86.12360	6.26487	0.1397937	0.21546548	2.7556089	20	10 4.3	19.9
305114 2007 VM_{88}	15.4	X	117.85537	20.79578	260.06766	15.24528	0.0969532	0.23242971	2.6198411	20	12 19.9	19.3
305115 2007 VG_{90}	16.4	X	253.49686	23.83544	75.78828	6.83545	0.0954817	0.22145294	2.7057132	20	10 6.6	20.1
305116 2007 VQ_{90}	16.8	X	60.34260	311.58386	69.63379	4.92533	0.0871554	0.24350713	2.5397731	20	—	—
305117 2007 VY_{93}	17.1	X	37.59322	131.71424	216.93189	1.86527	0.3062809	0.23453917	2.6041088	20	—	—
305118 2007 VH_{95}	16.9	X	270.95767	82.29881	0.61878	4.67536	0.1307434	0.22149422	2.7053769	20	9 29.3	20.1
305119 2007 VC_{98}	15.6	X	123.16385	353.08176	245.40831	12.71065	0.0359339	0.22126225	2.7072675	20	10 28.1	19.5
305120 2007 VK_{98}	17.2	X	4.49858	73.66249	15.98686	5.57009	0.0779156	0.24487827	2.5302837	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
305121 2007 VZ_{99}	16.2	X	64.09751	305.66169	41.84121	7.29884	0.1686653	0.23696899	2.5862770	20	—	—
305122 2007 VQ_{114}	17.2	X	129.47097	117.44016	195.31747	3.65293	0.2118174	0.24461912	2.5320704	20	—	—
305123 2007 VP_{116}	15.8	X	88.03190	274.27697	49.87987	13.61119	0.1909397	0.23687968	2.5869270	20	—	—
305124 2007 VB_{117}	16.6	X	34.29503	31.30689	16.36485	3.22331	0.0699456	0.23924233	2.5698673	20	—	—
305125 2007 VT_{121}	16.5	X	166.10393	165.44563	37.08922	14.20537	0.0978578	0.22490344	2.6779676	20	11 1.8	20.5
305126 2007 VU_{135}	16.6	X	321.15112	292.91115	156.40910	6.63043	0.1637905	0.23126331	2.6286427	20	—	—
305127 2007 VY_{139}	16.0	X	129.53469	65.83860	232.13785	10.67309	0.1749065	0.24122969	2.5557334	20	—	—
305128 2007 VU_{141}	17.2	X	265.12961	250.92624	180.26120	2.97722	0.1003964	0.21766572	2.7370077	20	9 9.3	20.6
305129 2007 VQ_{143}	17.5	X	347.69942	257.21278	146.97564	2.29077	0.1874717	0.23102653	2.6304384	20	12 27.5	20.0
305130 2007 VG_{144}	16.2	X	254.33345	343.80678	227.32676	14.58386	0.1022324	0.24396061	2.5366249	20	—	—
305131 2007 VX_{145}	16.4	X	298.91610	213.11375	270.71869	6.49809	0.1522522	0.23264956	2.6181904	20	—	—
305132 2007 VK_{147}	17.0	X	356.19649	277.46256	107.90454	3.41527	0.1091331	0.22737382	2.6585352	20	12 5.4	20.1
305133 2007 VJ_{148}	16.2	X	3.85685	265.64363	101.79261	7.60948	0.0484261	0.22378207	2.6869063	20	11 17.1	19.6
305134 2007 VV_{152}	16.7	X	329.86142	349.87147	64.54826	9.57532	0.1507423	0.22710031	2.6606693	20	12 2.6	19.3
305135 2007 VB_{155}	16.6	X	112.43487	318.08953	330.63021	3.84552	0.1759973	0.23676376	2.5877713	20	12 27.9	20.8
305136 2007 VO_{155}	16.6	X	246.88275	155.28303	2.29076	3.84486	0.1464289	0.23038739	2.6353011	20	12 1.9	20.0
305137 2007 VE_{156}	16.6	X	57.24557	303.25509	8.82137	4.18145	0.2318670	0.23196622	2.6233298	20	12 9.3	20.5
305138 2007 VY_{157}	16.3	X	136.45253	154.95682	78.99087	7.67905	0.1472170	0.22566118	2.6719694	20	11 12.8	20.6
305139 2007 VD_{164}	17.2	X	74.62828	315.13006	42.44808	2.75025	0.1704675	0.24148818	2.5539093	20	—	—
305140 2007 VO_{168}	16.8	X	309.18015	46.08606	65.60173	18.27420	0.1209820	0.23202433	2.6228917	20	—	—
305141 2007 VV_{168}	17.5	X	355.20960	29.99215	63.20731	3.89447	0.2224254	0.23809125	2.5781436	20	—	—
305142 2007 VY_{171}	17.1	X	183.10560	83.12537	225.88130	5.65252	0.1453219	0.26563016	2.3967227	20	1 1.6	20.9
305143 2007 VE_{173}	16.8	X	334.74811	353.54495	125.91402	5.47431	0.1495168	0.24148875	2.5539053	20	—	—
305144 2007 VN_{176}	17.9	X	131.16401	256.06696	47.76592	1.50793	0.2087703	0.25191384	2.4829504	20	—	—
305145 2007 VS_{177}	16.6	X	345.99600	16.85460	73.46669	15.92088	0.0798818	0.23873622	2.5734980	20	—	—
305146 2007 VT_{186}	16.1	X	47.34066	16.57677	34.31250	15.84850	0.1113960	0.24389123	2.5371059	20	—	—
305147 2007 VU_{191}	16.1	X	182.94009	179.33675	289.12115	4.60509	0.0123743	0.19853523	2.9101207	20	7 24.3	20.1
305148 2007 VC_{195}	17.4	X	60.15712	190.08976	318.97921	2.56585	0.1743769	0.27425068	2.3462317	20	4 26.6	19.7
305149 2007 VH_{198}	17.0	X	277.72988	182.86193	258.04404	1.76911	0.1626049	0.21487429	2.7606610	20	9 29.9	20.2
305150 2007 VM_{202}	16.3	X	6.59256	335.69493	64.65207	7.32481	0.0758556	0.22755712	2.6571073	20	—	—
305151 2007 VR_{209}	16.9	X	264.90124	200.15718	339.71668	3.36788	0.1176293	0.24043380	2.5613703	20	—	—
305152 2007 VS_{209}	17.1	X	87.59934	341.16426	354.99983	3.09991	0.1805910	0.24245151	2.5471398	20	—	—
305153 2007 VM_{210}	17.1	X	276.65211	253.21717	243.11577	2.88093	0.0575262	0.23907404	2.5710732	20	—	—
305154 2007 VY_{213}	16.1	X	86.08446	177.87325	77.61593	10.43945	0.0948576	0.22060481	2.7126436	20	10 18.8	20.1
305155 2007 VS_{214}	16.9	X	50.47673	225.92601	159.08581	4.52306	0.0281288	0.24012875	2.5635391	20	—	—
305156 2007 VK_{217}	17.0	X	354.68136	99.85789	341.84527	1.45488	0.1652563	0.23771993	2.5808275	20	—	—
305157 2007 VC_{219}	15.4	X	126.16153	318.31213	254.48095	12.21114	0.1547468	0.21380934	2.7698204	20	10 1.1	20.1
305158 2007 VQ_{220}	16.3	X	18.36361	126.28240	227.86963	5.23237	0.0441902	0.22360580	2.6883182	20	11 17.3	19.6
305159 2007 VJ_{221}	17.3	X	58.18145	230.42913	107.52187	5.72273	0.1282963	0.23457764	2.6038241	20	12 31.0	20.9
305160 2007 VP_{221}	17.1	X	338.82996	102.74678	38.19910	5.92404	0.1491470	0.24519089	2.5281325	20	—	—
305161 2007 VA_{222}	16.5	X	356.85713	337.95910	51.47073	10.31377	0.1839291	0.23077041	2.6323843	20	12 22.2	19.4
305162 2007 VM_{227}	16.8	X	14.75229	305.53499	141.75080	3.98373	0.1816663	0.24257136	2.5463008	20	—	—
305163 2007 VB_{235}	17.1	X	259.68438	19.61236	75.75370	3.24849	0.0443705	0.22024666	2.7155835	20	10 14.6	20.7
305164 2007 VY_{238}	16.3	X	38.78209	51.19368	237.64897	5.08753	0.0155083	0.21458669	2.7631271	20	9 12.3	20.1
305165 2007 VP_{248}	16.2	X	347.75027	129.37853	263.74103	12.29810	0.1828658	0.22957287	2.6415307	20	12 11.0	18.8
305166 2007 VF_{260}	16.4	X	295.08340	345.36702	133.76900	5.41100	0.0999439	0.23470135	2.6029090	20	—	—
305167 2007 VL_{264}	16.6	X	166.86573	285.78298	295.92416	2.05657	0.1202044	0.22688018	2.6623900	20	11 25.3	20.8
305168 2007 VQ_{266}	17.0	X	258.43682	310.70969	219.74510	2.08363	0.1291462	0.23189863	2.6238395	20	—	—
305169 2007 VP_{269}	16.8	X	26.54286	208.21872	187.69057	1.69051	0.1298186	0.23678058	2.5876488	20	—	—
305170 2007 VW_{276}	16.9	X	62.81762	343.46855	334.19565	3.87873	0.1741480	0.23466451	2.6031815	20	12 16.2	20.9
305171 2007 VX_{277}	17.4	X	346.51541	338.50801	131.31698	1.02661	0.1612279	0.24187474	2.5511875	20	—	—
305172 2007 VQ_{280}	17.8	X	349.03990	220.06252	244.38772	2.08702	0.1526424	0.24129134	2.5552980	20	—	—
305173 2007 VZ_{281}	16.4	X	102.80933	259.32526	62.11124	15.94608	0.2724421	0.24297843	2.5434560	20	—	—
305174 2007 VF_{284}	17.2	X	318.38079	174.13477	230.20677	3.48441	0.1058272	0.22374616	2.6871938	20	10 26.9	20.3
305175 2007 VH_{286}	17.1	X	43.57902	64.47178	295.77969	2.79667	0.1525925	0.23321435	2.6139616	20	—	—
305176 2007 VA_{292}	16.2	X	26.45177	275.02702	75.44246	10.61378	0.1325999	0.22776064	2.6555242	20	12 7.1	19.3
305177 2007 VL_{292}	16.2	X	69.98382	159.19479	81.52289	9.22384	0.1170290	0.20890628	2.8129913	20	9 12.1	20.3
305178 2007 VY_{294}	16.5	X	44.41569	317.72413	20.74088	6.97887	0.0853183	0.23193969	2.6235298	20	12 8.1	20.0
305179 2007 VW_{295}	16.9	X	33.65690	241.56637	138.25465	9.46506	0.1754146	0.23748052	2.5825618	20	—	—
305180 2007 VA_{299}	16.6	X	20.90087	266.20957	156.64954	12.27756	0.1719407	0.24108870	2.5567297	20	—	—
305181 Donelaitis	16.2	X	122.59080	275.60450	14.76029	8.75842	0.1578579	0.23870323	2.5737351	20	—	—
305182 2007 VZ_{306}	16.2	X	11.67948	254.11135	81.84325	7.92109	0.0621398	0.21373810	2.7704358	20	10 18.9	19.8
305183 2007 VA_{307}	16.9	X	351.26860	359.35517	69.54424	3.23278	0.0847194	0.23010533	2.6374542	20	—	—
305184 2007 VV_{308}	16.3	X	51.55085	241.51864	122.91761	3.05198	0.1983066	0.23698856	2.5861346	20	—	—
305185 2007 VM_{309}	16.2	X	33.51512	219.19542	90.25114	6.20013	0.0351023	0.21702203	2.7424171	20	10 11.2	19.9
305186 2007 VW_{312}	15.4	X	37.95654	171.84643	80.83797	15.03087	0.0830807	0.19824859	2.9129250	20	8 7.0	19.4
305187 2007 VV_{314}	16.5	X	271.41097	14.35997	71.38064	5.60718	0.0857618	0.21956260	2.7212210	20	10 13.1	20.0
305188 2007 VQ_{315}	17.5	X	337.49414	73.07502	33.00985	4.07032	0.2316296	0.23569188	2.5956112	20	—	—
305189 2007 VM_{319}	16.2	X	153.26635	14.10580	120.29427	3.02094	0.0293999	0.19846059	2.9108503	20	7 21.4	20.2
305190 2007 VS_{323}	16.3	X	252.42921	222.38280	222.10002	11.99251	0.1232289	0.21638079	2.7478325	20	9 1.8	20.3
305191 2007 VV_{323}	16.2	X	70.24537	273.60163	79.53095	15.66956	0.1695983	0.23942919	2.5685301	20	—	—
305192 2007 VC_{324}	17.1	X	322.50640	49.39797	67.75603	6.24293	0.1973214	0.23609864	2.5926291	20	—	—
305193 2007 VS_{325}	17.0	X	285.09160	157.79245	345.43977	3.62615	0.1332033	0.23407047	2.6075840	20	—	—
305194 2007 VT_{325}	16.0	X	268.83096	170.97199	280.13204	10.48218	0.0421824	0.22211030	2.7003719	20	10 15.5	19.8
305195 2007 VF_{326}	17.2	X	272.93785	44.52757	75.68305	8.63894	0.1743733	0.22593191	2.6698345	20	11 17.7	20.1
305196 2007 VM_{326}	16.5	X	342.90613	333.59545	78.42622	14.52795	0.1532125	0.23023919	2.6364319	20	12 24.7	19.3
305197 2007 VW_{328}	17.3	X	31.84481	245.56597	143.23944	1.81246	0.0622349	0.23400251	2.6080888	20	—	—
305198 2007 VF_{331}	16.6	X	264.98900	184.00674	260.48299	3.86445	0.0234218	0.21264503	2.7799217	20	10 5.8	20.4
305199 2007 VS_{333}	16.4	X	302.04248	15.33526	69.55248	2.88532	0.0329798	0.21900350	2.7258503	20	11 27.3	19.7
305200 2007 VY_{334}	16.4	X	34.04889	1.54973	3.67626	5.82658	0.0694560	0.22622770	2.6675068	20	12 26.4	20.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
305201 2007 WY	17.2	X	359.84922	32.55505	13.73708	8.80051	0.0921386	0.23567161	2.5957600	20	—	—
305202 2007 WC_4	17.2	X	339.48896	16.08226	68.75626	3.44378	0.1923629	0.23573090	2.5953248	20	—	—
305203 2007 WN_7	16.1	X	350.17802	162.68957	255.24254	12.31641	0.1508489	0.23321172	2.6139813	20	—	—
305204 2007 WN_{11}	15.9	X	47.31901	238.42494	81.86872	18.48913	0.1675352	0.22828103	2.6514870	20	12 2.0	19.6
305205 2007 WU_{14}	16.8	X	87.67565	147.69281	166.50860	1.79837	0.0687860	0.23263000	2.6183371	20	12 27.4	20.4
305206 2007 WX_{19}	16.5	X	186.04835	56.44175	145.50626	5.85679	0.0293419	0.22909383	2.6452118	20	11 30.6	20.2
305207 2007 WS_{20}	15.9	X	122.57635	31.95016	112.16379	10.61210	0.0118580	0.18937069	3.0032688	20	6 23.8	20.1
305208 2007 WM_{24}	17.2	X	67.35192	202.60838	125.18335	3.22568	0.1752845	0.23622306	2.5917186	20	—	—
305209 2007 WC_{26}	17.4	X	302.39512	357.73195	97.65743	3.99661	0.0809063	0.23115554	2.6294596	20	12 12.8	20.4
305210 2007 WZ_{28}	16.6	X	322.98267	333.67295	19.74314	6.97772	0.0479160	0.21377736	2.7700965	20	8 29.3	20.1
305211 2007 WJ_{29}	16.4	X	31.84212	85.18885	287.43166	6.98177	0.0851620	0.23367692	2.6105108	20	—	—
305212 2007 WS_{39}	16.0	X	94.35481	212.62845	76.78432	13.07566	0.0613363	0.23108661	2.6299825	20	12 3.7	19.7
305213 2007 WV_{47}	16.5	X	60.10529	305.05814	23.99060	8.37974	0.0683354	0.23146170	2.6271404	20	12 12.9	20.2
305214 2007 WR_{48}	16.3	X	127.32317	56.72369	219.84984	8.02662	0.0566179	0.23294031	2.6160113	20	12 23.8	20.2
305215 2007 WP_{55}	15.9	X	14.37516	313.69324	54.23091	13.73859	0.1656206	0.22892541	2.6465091	20	12 16.9	19.3
305216 2007 WA_{58}	16.5	X	22.70937	290.75607	99.50491	6.53163	0.2737104	0.23348121	2.6119695	20	—	—
305217 2007 WK_{58}	17.1	X	332.82508	9.77073	130.76747	6.12470	0.2120696	0.24120866	2.5558819	20	—	—
305218 2007 WF_{59}	16.4	X	14.55212	105.21899	243.58096	4.66390	0.0946928	0.22335074	2.6903645	20	11 11.0	19.6
305219 2007 WM_{59}	15.9	X	230.08661	91.99550	311.80270	8.78417	0.0747816	0.19179439	2.9779138	20	6 23.5	20.3
305220 2007 WG_{62}	16.2	X	352.03439	359.56232	54.57427	22.16917	0.0285601	0.23198594	2.6231811	20	12 27.2	19.9
305221 2007 XZ	17.0	X	331.19665	14.20212	51.36951	8.30806	0.1778209	0.23026937	2.6362015	20	12 24.3	19.6
305222 2007 XE_3	16.6	X	48.02589	263.15085	85.08731	6.57880	0.2647287	0.23617853	2.5920444	20	—	—
305223 2007 XJ_3	17.2	X	40.26080	255.69375	109.62120	7.57567	0.2477910	0.23920782	2.5701145	20	—	—
305224 2007 XC_9	15.8	X	286.90982	169.90963	282.82664	13.60108	0.0917233	0.22103902	2.7090899	20	11 7.8	19.3
305225 2007 XB_{11}	16.7	X	353.70379	224.69113	170.19858	8.16184	0.1931744	0.23156527	2.6263571	20	12 26.3	19.7
305226 2007 XD_{13}	16.4	X	223.53199	217.21162	273.01005	4.02664	0.0908143	0.22033652	2.7148451	20	10 3.3	20.3
305227 2007 XZ_{13}	16.9	X	324.05760	79.48667	291.93719	3.42025	0.1302467	0.21704907	2.7421893	20	9 16.6	20.0
305228 2007 XF_{14}	16.7	X	303.62825	349.31394	63.37226	5.93746	0.1096849	0.22028688	2.7152529	20	10 15.2	19.8
305229 2007 XK_{15}	15.8	X	300.29995	19.88421	61.71534	13.84062	0.1158051	0.22243905	2.6977106	20	11 16.9	18.9
305230 2007 XP_{18}	16.4	X	211.28266	166.89236	71.43110	5.36720	0.0755128	0.23825394	2.5769698	20	—	—
305231 2007 XR_{18}	16.0	X	353.03038	89.08633	270.13509	12.20082	0.1153964	0.22116285	2.7080786	20	10 19.4	19.3
305232 2007 XK_{19}	17.3	X	338.02092	113.64001	319.34743	4.50826	0.2106780	0.23310902	2.6147490	20	—	—
305233 2007 XX_{19}	16.2	X	207.79707	71.84568	317.75131	4.70392	0.0907749	0.19673742	2.9278224	20	5 8.2	20.8
305234 2007 XA_{20}	16.2	X	274.68238	289.01519	78.85011	11.69018	0.1523652	0.20606354	2.8388032	20	6 20.1	19.9
305235 2007 XC_{20}	16.3	X	241.58182	101.57608	54.01220	27.56318	0.0939451	0.22768896	2.6560815	20	11 26.9	20.0
305236 2007 XY_{24}	16.5	X	269.46364	353.81057	94.62785	7.22024	0.1080077	0.21884360	2.7271780	20	10 11.8	20.0
305237 2007 XG_{25}	17.2	X	43.16165	177.58725	225.53818	2.65612	0.1610138	0.24050079	2.5608946	20	—	—
305238 2007 XZ_{25}	16.6	X	138.98725	285.11896	267.47700	2.85896	0.0385432	0.21473107	2.7618884	20	9 17.9	20.7
305239 2007 XY_{29}	16.4	X	349.05368	271.23825	118.28141	5.99858	0.1515582	0.22778207	2.6553577	20	12 4.9	19.3
305240 2007 XE_{31}	17.5	X	297.79479	118.28120	287.18448	3.02451	0.2057319	0.21355397	2.7720281	20	9 6.9	20.6
305241 2007 XO_{31}	17.1	X	323.15744	232.41859	197.14284	1.67191	0.0957772	0.22839402	2.6506125	20	12 10.5	20.0
305242 2007 XV_{32}	16.3	X	292.14595	7.35142	86.82412	15.11175	0.1621695	0.21932855	2.7231565	20	11 17.7	19.4
305243 2007 XC_{34}	16.5	X	324.28744	13.18863	63.59531	4.86497	0.2008926	0.22673737	2.6635078	20	12 26.3	18.9
305244 2007 XS_{35}	16.0	X	82.17687	62.35219	272.59301	11.72545	0.1275447	0.23664439	2.5886415	20	—	—
305245 2007 XO_{37}	15.8	X	50.93483	309.10740	58.74283	6.47053	0.1090219	0.23419495	2.6066599	20	—	—
305246 2007 XD_{39}	16.0	X	241.60898	45.69682	70.45086	11.23323	0.1412823	0.21482333	2.7610976	20	10 7.3	20.1
305247 2007 XS_{40}	16.0	X	221.77449	70.60240	74.75438	7.37141	0.1905171	0.21067530	2.7972222	20	10 12.8	20.3
305248 2007 XP_{42}	16.3	X	277.31069	139.96154	329.92677	8.51999	0.1337271	0.22091445	2.7101082	20	11 10.6	19.7
305249 2007 XR_{44}	15.9	X	228.09017	98.94729	88.97104	12.49412	0.1401583	0.22801410	2.6535560	20	12 17.6	19.3
305250 2007 XP_{48}	16.8	X	296.77470	47.53751	84.55468	5.61753	0.1091426	0.22917434	2.6445923	20	—	—
305251 2007 XQ_{48}	16.5	X	23.98099	253.49145	89.00163	7.00127	0.0568889	0.21780093	2.7358749	20	11 11.9	20.1
305252 2007 XE_{55}	16.7	X	283.93678	239.53101	245.91776	4.04325	0.0683516	0.23067484	2.6331114	20	12 24.9	19.9
305253 2007 XM_{55}	16.1	X	354.61481	76.41863	265.76050	5.21847	0.0564521	0.21100807	2.7942805	20	9 24.3	19.7
305254 Moron	16.5	X	272.04647	336.21923	93.11830	5.07544	0.0827102	0.21110828	2.7933962	20	9 21.4	20.1
305255 2007 YP_8	16.7	X	25.64673	51.35713	326.57986	4.32593	0.0438256	0.23163604	2.6258221	20	12 29.6	20.1
305256 2007 YN_9	16.6	X	45.87648	309.91100	43.48720	6.97231	0.0250788	0.22405983	2.6846853	20	12 18.8	20.2
305257 2007 YE_{10}	15.4	X	334.09978	150.84221	110.41382	11.54173	0.0642283	0.18724767	3.0259269	20	5 11.7	19.5
305258 2007 YM_{12}	16.6	X	259.15290	26.82919	83.86361	13.99112	0.0453223	0.21620540	2.7493183	20	11 5.5	20.4
305259 2007 YP_{14}	15.8	X	229.81598	261.27202	170.85331	12.89299	0.0910474	0.19616056	2.9335597	20	7 25.6	20.3
305260 2007 YR_{22}	16.5	X	273.71381	203.01325	267.29902	3.76026	0.0701759	0.22026685	2.7154176	20	11 16.7	20.1
305261 2007 YO_{23}	16.6	X	221.28083	28.86127	43.81334	2.55911	0.0461673	0.20117661	2.8845920	20	7 24.1	20.7
305262 2007 YO_{24}	16.4	X	292.41042	357.91828	54.61137	6.94743	0.0198346	0.21115827	2.7929553	20	10 5.8	20.2
305263 2007 YQ_{29}	16.8	X	280.61239	228.75731	209.03198	3.23272	0.0273105	0.21335762	2.7737285	20	10 19.3	20.3
305264 2007 YR_{29}	16.2	X	225.61561	272.84012	246.47273	14.62076	0.1924496	0.21282030	2.7783951	20	10 28.4	20.4
305265 2007 YZ_{32}	17.1	X	266.39131	99.91740	55.60128	4.29127	0.0513548	0.23213697	2.6220432	20	—	—
305266 2007 YO_{33}	16.1	X	11.55869	278.23819	83.57660	7.07924	0.0223473	0.22328271	2.6909109	20	11 16.5	19.7
305267 2007 YO_{36}	16.5	X	290.09961	137.58877	298.12042	7.60003	0.1930948	0.21841629	2.7307338	20	10 5.8	19.8
305268 2007 YQ_{37}	16.5	X	317.65673	303.71626	87.53482	7.20421	0.0434520	0.21342453	2.7731487	20	10 12.5	20.1
305269 2007 YY_{43}	16.2	X	42.01398	98.00402	105.14005	7.31642	0.1008654	0.18350398	3.0669432	20	6 6.1	20.1
305270 2007 YK_{44}	17.3	X	283.88051	89.48560	328.94457	3.67062	0.1858597	0.21163965	2.7887186	20	9 5.0	20.7
305271 2007 YC_{48}	16.5	X	81.97940	286.42535	65.30598	6.34595	0.1370755	0.23869374	2.5738034	20	—	—
305272 2007 YJ_{48}	16.8	X	278.93499	332.22149	85.92759	4.88617	0.0341402	0.21468124	2.7623158	20	9 23.6	20.5
305273 2007 YZ_{50}	16.2	X	289.63101	288.55358	110.52966	5.88546	0.0491706	0.20820772	2.8192797	20	9 9.9	19.9
305274 2007 YW_{52}	16.6	X	295.95811	336.30542	112.22792	3.71453	0.1711705	0.22090233	2.7102074	20	11 13.4	19.4
305275 2007 YD_{56}	16.3	X	228.50754	55.65326	98.01239	10.00792	0.1078316	0.21807668	2.7335681	20	11 10.8	20.2
305276 2007 YS_{58}	16.4	X	235.01287	154.15987	329.49528	7.74586	0.1738085	0.21282662	2.7783402	20	9 25.9	20.6
305277 2007 YK_{60}	16.9	X	230.46297	95.63497	50.98582	10.80679	0.2952135	0.21484855	2.7608815	20	10 12.4	21.3
305278 2007 YE_{62}	16.4	X	104.08522	141.30250	98.95334	5.53688	0.0188976	0.21129189	2.7917777	20	10 9.1	20.3
305279 2007 YB_{63}	16.9	X	344.46024	13.64527	29.28711	2.18646	0.0644002	0.22158448	2.7046423	20	12 4.1	20.3
305280 2007 YH_{63}	16.0	X	243.53310	50.65621	295.27906	8.37248	0.1025191	0.18463411	3.0544153	20	4 19.6	20.8

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		°	°	°	°		°				
305281 2007 YR_{65}	16.1	X	235.07718	13.41093	322.63287	12.56708	0.0721242	0.17894129	3.1188585	20	3 30.3	21.0
305282 2007 YG_{67}	16.7	X	289.93156	330.66585	97.34667	6.02453	0.0972372	0.21983573	2.7189666	20	10 16.1	20.1
305283 2007 YC_{68}	16.7	X	214.40364	310.15122	125.70127	3.07257	0.0677366	0.19682818	2.9269223	20	7 16.7	21.0
305284 2007 YW_{68}	17.2	X	353.60609	45.20044	6.62752	5.80188	0.0987836	0.22737787	2.6585036	20	—	—
305285 2008 AJ	16.5	X	186.33118	83.92694	69.21471	5.19799	0.0828354	0.21292379	2.7774948	20	9 24.9	20.7
305286 2008 AD_{1}	16.4	X	138.56759	33.55447	225.45365	13.13984	0.1082655	0.22754984	2.6571640	20	12 13.3	20.6
305287 Olegyankov	15.8	X	295.11448	252.93446	79.39325	12.07193	0.0147506	0.19184189	2.9774222	20	6 20.9	19.8
305288 2008 AT_{2}	16.3	X	329.73250	322.10027	124.77567	14.63215	0.2324907	0.22795120	2.6540441	20	—	—
305289 2008 AB_{4}	16.1	X	158.89961	210.87186	317.28019	3.54104	0.2313090	0.20214807	2.8753429	20	9 9.5	21.0
305290 2008 AT_{4}	17.4	X	340.22021	47.46513	51.82916	6.87011	0.2598678	0.23219917	2.6215749	20	—	—
305291 2008 AH_{5}	15.4	X	72.39896	199.41656	309.49816	7.87606	0.0629151	0.17882899	3.1201641	20	4 30.2	19.9
305292 2008 AS_{5}	17.7	X	48.48983	289.79232	79.91373	9.81414	0.2285639	0.24046937	2.5611177	20	—	—
305293 2008 AY_{7}	17.0	X	308.82469	5.01763	102.07276	3.54497	0.1645618	0.22544772	2.6736557	20	—	—
305294 2008 AA_{8}	16.9	X	278.76419	304.31164	138.40276	2.85581	0.0404090	0.21259703	2.7803400	20	10 22.8	20.5
305295 2008 AH_{9}	17.6	X	319.39734	255.69328	164.77217	2.29976	0.1448388	0.21965354	2.7204698	20	11 19.4	20.3
305296 2008 AA_{11}	16.7	X	329.15018	259.58225	140.11924	7.03733	0.0373279	0.21534572	2.7566304	20	11 8.2	20.3
305297 2008 AX_{13}	15.9	X	255.23795	182.26602	138.92664	10.06436	0.1429673	0.18192543	3.0846587	20	4 5.2	20.7
305298 2008 AB_{15}	16.5	X	321.93231	130.58471	261.53502	2.52571	0.1034058	0.21252648	2.7809554	20	10 12.8	19.7
305299 2008 AG_{20}	15.8	X	69.58624	172.64304	322.65259	8.67490	0.0719921	0.17460421	3.1702942	20	4 9.7	20.3
305300 2008 AH_{22}	16.0	X	306.93888	189.68688	125.02905	10.34161	0.0392838	0.18629838	3.0361974	20	6 12.0	20.2
305301 2008 AY_{24}	17.2	X	277.05476	20.24669	32.30127	2.29362	0.0630970	0.20388250	2.8590127	20	9 6.1	21.0
305302 2008 AV_{26}	15.6	X	210.97169	234.10101	137.94071	10.10365	0.1060154	0.18043243	3.1016514	20	4 25.3	20.5
305303 2008 AC_{31}	16.7	X	212.89726	291.59127	207.22204	8.72767	0.0902897	0.21535300	2.7565684	20	10 2.1	20.7
305304 2008 AO_{34}	15.7	X	113.97448	188.47474	309.93444	8.77680	0.0616075	0.18730722	3.0252856	20	6 11.2	20.1
305305 2008 AE_{36}	15.9	X	12.96865	147.01833	119.08666	8.88709	0.0371268	0.19273736	2.9681928	20	7 10.4	19.7
305306 2008 AO_{36}	16.4	X	280.05587	44.07475	345.81528	1.77636	0.0268740	0.20072869	2.8888816	20	8 15.4	20.3
305307 2008 AN_{37}	16.4	X	346.36175	97.49407	126.31841	9.01011	0.0871068	0.17540297	3.1606622	20	4 9.9	20.6
305308 2008 AK_{38}	16.6	X	330.68522	225.09161	169.63658	4.55101	0.1057434	0.21618135	2.7495222	20	11 3.7	19.7
305309 2008 AP_{40}	16.5	X	69.39531	200.51970	344.99346	4.96672	0.0314300	0.18529355	3.0471641	20	6 10.7	20.7
305310 2008 AW_{40}	15.7	X	37.16036	211.51697	329.14241	9.41689	0.1524679	0.17511800	3.1640902	20	4 30.3	19.7
305311 2008 AX_{42}	17.6	X	333.29391	265.80339	169.82350	3.74260	0.2917641	0.22861915	2.6488720	20	—	—
305312 2008 AL_{43}	15.1	X	48.59509	246.16734	312.40404	21.38607	0.0623644	0.18274575	3.0754206	20	6 3.3	19.6
305313 2008 AU_{44}	15.9	X	195.50513	267.67623	142.32663	9.65581	0.0733114	0.18465130	3.0542257	20	5 25.5	20.6
305314 2008 AG_{45}	16.4	X	293.14330	125.72505	320.17704	9.88074	0.1320334	0.21792180	2.7348632	20	11 2.2	19.8
305315 2008 AH_{45}	16.7	X	86.27224	298.66222	98.69678	8.35676	0.2328816	0.24478108	2.5309534	20	1 16.8	19.3
305316 2008 AR_{50}	16.3	X	274.45843	286.68122	96.49997	6.94107	0.0715583	0.20089130	2.8873225	20	7 23.5	20.1
305317 2008 AH_{53}	16.1	X	86.00348	230.88278	299.85729	5.08071	0.1162489	0.18744347	3.0238193	20	6 26.5	20.4
305318 2008 AU_{54}	15.5	X	36.06153	240.86834	305.32905	8.99937	0.0143607	0.18139215	3.0907015	20	4 22.8	19.9
305319 2008 AQ_{64}	16.1	X	83.45571	245.54432	279.15668	6.36540	0.1810629	0.18313049	3.0711117	20	6 24.5	20.4
305320 2008 AW_{66}	16.5	X	290.74153	101.21531	334.23033	3.38574	0.0820703	0.21330171	2.7742131	20	10 22.9	20.0
305321 2008 AJ_{67}	16.2	X	279.64495	303.86557	134.31412	4.56756	0.0726106	0.21159366	2.7891226	20	10 14.7	19.8
305322 2008 AB_{76}	16.2	X	162.17915	98.25806	6.82416	9.16617	0.2004251	0.19064890	2.9898301	20	6 28.7	21.4
305323 2008 AA_{77}	16.2	X	241.23403	307.78302	92.89374	6.89669	0.0808306	0.19590244	2.9361359	20	7 1.6	20.3
305324 2008 AP_{81}	16.6	X	341.42363	161.29524	233.58388	4.19461	0.0637982	0.21816030	2.7328695	20	11 18.5	19.8
305325 2008 AX_{84}	16.4	X	356.34730	339.37567	36.63782	7.05963	0.0857332	0.21725945	2.7404187	20	11 16.6	19.8
305326 2008 AU_{86}	16.2	X	338.34533	3.43409	81.91688	15.97278	0.1780107	0.22879616	2.6475056	20	—	—
305327 2008 AY_{87}	16.8	X	346.56222	266.53746	119.51369	11.23480	0.1683541	0.22072390	2.7116678	20	11 27.2	19.8
305328 2008 AT_{93}	16.7	X	318.95158	67.32878	353.08922	4.56397	0.1044110	0.21928798	2.7234924	20	11 16.8	20.0
305329 2008 AY_{94}	16.6	X	283.80448	337.80289	124.86743	9.22174	0.1350471	0.21930307	2.7233675	20	11 17.3	19.9
305330 2008 AB_{95}	16.2	X	248.90511	57.08377	296.72312	8.99804	0.1185918	0.18859416	3.0115071	20	5 4.1	20.9
305331 2008 AM_{95}	16.5	X	267.79930	153.58650	306.89365	3.81792	0.0230152	0.21395513	2.7685620	20	10 30.6	20.2
305332 2008 AU_{97}	16.1	X	13.10848	135.56563	110.58273	11.87894	0.0498752	0.18772974	3.0207445	20	6 15.5	20.1
305333 2008 AD_{105}	15.9	X	244.08316	62.51405	310.15695	10.12347	0.0921630	0.19301196	2.9653769	20	5 26.9	20.4
305334 2008 AF_{106}	16.8	X	24.07834	44.33467	2.08145	2.63275	0.2776067	0.23583791	2.5945396	20	—	—
305335 2008 AY_{106}	15.7	X	346.77856	131.96183	119.67535	13.14327	0.0526046	0.18454983	3.0553452	20	5 18.6	19.9
305336 2008 AL_{107}	15.7	X	338.90480	283.66135	288.31170	7.50408	0.0303139	0.17466829	3.1695188	20	3 12.1	20.1
305337 2008 AM_{107}	16.5	X	342.01263	97.77168	271.30252	3.63260	0.0906116	0.21321752	2.7749433	20	10 14.2	19.8
305338 2008 AB_{111}	15.6	X	293.85722	333.08627	306.51049	14.55104	0.1119315	0.17640485	3.1486837	20	3 22.4	20.2
305339 2008 AV_{111}	16.1	X	303.88589	333.30937	331.73923	13.04488	0.0798234	0.18374258	3.0642875	20	5 14.9	20.5
305340 2008 AM_{115}	16.2	X	69.10486	278.50055	303.08646	3.69124	0.1167924	0.19008898	2.9956984	20	8 9.6	20.2
305341 2008 AT_{115}	15.7	X	257.59549	26.30059	286.39600	6.23552	0.1105437	0.17974943	3.1095033	20	3 25.2	20.4
305342 2008 AH_{116}	15.7	X	251.84115	244.12167	140.17889	10.74275	0.0467029	0.18558424	3.0439814	20	6 27.8	20.2
305343 2008 AX_{116}	15.2	X	292.09639	310.57864	319.24323	26.02896	0.1904440	0.17357026	3.1828720	20	2 26.8	20.0
305344 2008 AB_{122}	16.3	X	327.03801	118.96078	114.56191	5.62616	0.1302270	0.17283302	3.1919169	20	3 18.3	20.4
305345 2008 AS_{129}	16.0	X	143.03555	140.56500	21.29654	1.72388	0.0528463	0.19536779	2.9414902	20	8 15.1	20.3
305346 2008 AP_{134}	15.8	X	33.25871	130.13775	88.54483	12.70568	0.0751981	0.18759051	3.0222390	20	6 10.3	19.5
305347 2008 AV_{135}	15.8	X	208.73685	312.53280	88.42456	11.93098	0.1144865	0.18886517	3.0086255	20	5 25.8	20.5
305348 2008 AE_{136}	16.1	X	274.60378	227.21283	196.27730	8.71972	0.1344641	0.20942723	2.8083245	20	9 4.0	19.8
305349 2008 BG_{7}	16.6	X	295.49943	141.27198	295.66760	8.75829	0.1434659	0.21578330	2.7529025	20	10 23.4	19.9
305350 2008 BC_{9}	15.1	X	212.15504	245.23806	106.73889	20.01009	0.1303921	0.17589772	3.1547327	20	4 7.5	20.5
305351 2008 BW_{12}	16.2	X	0.39225	106.47097	257.53204	4.18481	0.0195562	0.21543862	2.7558380	20	10 31.1	19.8
305352 2008 BZ_{12}	16.4	X	85.90802	130.35755	342.23537	0.23689	0.1357777	0.17550978	3.1593798	20	4 15.9	20.7
305353 2008 BM_{13}	16.2	X	162.96950	57.56622	61.11299	10.37497	0.0474625	0.19330188	2.9624111	20	7 13.9	20.6
305354 2008 BK_{14}	16.2	X	301.30613	11.70904	60.14774	9.88471	0.1324831	0.21660042	2.7459746	20	11 3.2	19.3
305355 2008 BU_{18}	16.3	X	259.79453	308.09410	133.25379	4.55991	0.0694776	0.20977855	2.8051881	20	9 21.1	20.0
305356 2008 BB_{23}	16.0	X	140.30076	83.56436	333.71352	17.83045	0.2414298	0.17584663	3.1553438	20	4 7.8	21.6
305357 2008 BA_{28}	15.6	X	258.12694	191.50079	127.57212	9.37937	0.0797430	0.17987214	3.1080890	20	4 13.5	20.2
305358 2008 BX_{28}	16.7	X	306.36282	233.32771	208.58385	5.05515	0.1968439	0.22123605	2.7074812	20	11 22.0	19.2
305359 2008 BW_{32}	16.0	X	88.33124	213.11635	318.34454	2.92006	0.1087795	0.18257502	3.0773376	20	6 29.0	20.4
305360 2008 BQ_{34}	16.3	X	285.56260	185.83594	133.54656	3.60129	0.0236482	0.18184656	3.0855505	20	5 22.4	20.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
305361 2008 BB_{35}	16.9	X	145.48847	102.01270	12.84861	0.53381	0.1052247	0.18475947	3.0530336	20	6 20.9	21.4
305362 2008 BH_{35}	16.6	X	158.61242	312.39737	153.56089	10.99872	0.0683885	0.18515172	3.0487200	20	6 22.5	21.3
305363 2008 BO_{40}	16.2	X	109.23955	151.72563	345.37684	10.28601	0.1607811	0.18369838	3.0647791	20	6 15.5	21.0
305364 2008 BG_{41}	16.2	X	284.45210	296.94493	134.66588	13.78045	0.1494173	0.21314330	2.7755875	20	10 5.9	19.7
305365 2008 BA_{47}	16.4	X	58.23662	236.02011	316.90655	3.80028	0.0478927	0.18216936	3.0819043	20	6 7.8	20.6
305366 2008 BD_{47}	15.8	X	231.33541	7.92980	322.47693	8.30417	0.0928825	0.17107784	3.2137115	20	3 21.3	20.9
305367 2008 BL_{53}	15.4	X	3.94465	252.66926	30.88536	12.03113	0.0981754	0.19104396	2.9857069	20	7 27.8	19.3
305368 2008 BB_{54}	16.5	X	279.26458	272.37222	185.98259	14.00267	0.1833206	0.21460866	2.7629385	20	10 25.8	19.8
305369 2008 CY	16.0	X	240.19943	63.62096	265.50802	5.07556	0.0463397	0.17460299	3.1703090	20	4 2.9	20.6
305370 2008 CQ_{3}	15.8	X	343.63971	112.13321	140.86366	9.93894	0.0300985	0.17813247	3.1282922	20	5 15.9	20.2
305371 2008 CT_{4}	15.2	X	120.94566	149.53738	349.99261	17.32505	0.0410533	0.18252228	3.0779304	20	6 18.8	20.0
305372 2008 CS_{10}	16.4	X	322.91797	323.28072	149.93772	11.95564	0.2267142	0.22951252	2.6419938	20	—	—
305373 2008 CX_{10}	15.9	X	195.71751	264.39095	114.13765	7.20462	0.0989585	0.17739482	3.1369584	20	4 17.8	20.9
305374 2008 CA_{11}	16.0	X	186.31314	103.91251	1.40186	5.26694	0.0798534	0.19332702	2.9621543	20	7 23.4	20.5
305375 2008 CC_{11}	16.5	X	270.81755	81.51085	353.76418	7.18834	0.2086264	0.20958476	2.8069171	20	9 5.8	20.2
305376 2008 CS_{11}	16.3	X	255.05779	317.75231	122.41514	7.11260	0.0590551	0.20344668	2.8630942	20	9 14.9	20.2
305377 2008 CT_{13}	15.7	X	311.87132	247.32039	9.89904	4.55102	0.1050244	0.17111187	3.2132853	20	3 27.7	20.0
305378 2008 CC_{15}	16.3	X	90.00596	22.21532	133.13699	6.03736	0.0840525	0.18078945	3.0975667	20	6 7.5	20.7
305379 2008 CA_{18}	15.8	X	160.48906	95.89378	335.19083	10.31304	0.1302714	0.17952610	3.1120817	20	5 10.4	21.0
305380 2008 CK_{24}	16.1	X	161.34652	111.31192	341.70125	10.08613	0.1338474	0.18488182	3.0516864	20	6 10.0	21.1
305381 2008 CU_{29}	16.0	X	272.73849	345.69633	325.49301	17.47622	0.0744825	0.17903731	3.1177433	20	4 8.2	20.8
305382 2008 CP_{36}	15.6	X	57.26175	212.38349	316.87912	11.77771	0.0475313	0.17658667	3.1465220	20	5 2.3	20.1
305383 2008 CQ_{38}	15.6	X	237.20894	210.02920	136.60475	10.30943	0.0984479	0.17896619	3.1185693	20	4 22.2	20.5
305384 2008 CO_{39}	16.7	X	298.93890	148.38406	194.47156	1.40361	0.0838884	0.19166881	2.9792143	20	6 30.9	20.4
305385 2008 CT_{39}	16.3	X	269.21246	271.93891	147.64334	9.67539	0.1260029	0.20461091	2.8522233	20	8 25.4	20.1
305386 2008 CF_{44}	16.5	X	65.96912	0.24392	164.50027	17.44077	0.1434941	0.17354803	3.1831437	20	5 30.2	21.1
305387 2008 CX_{44}	16.4	X	100.18243	108.04803	0.32209	9.96686	0.2130054	0.17465500	3.1696797	20	5 4.6	21.3
305388 2008 CL_{45}	15.9	X	230.30412	259.91679	116.55546	5.97985	0.1754624	0.18078617	3.0976041	20	5 12.9	20.9
305389 2008 CG_{50}	15.6	X	57.54142	223.14765	7.53475	10.14728	0.0599768	0.18998368	2.9968052	20	8 1.7	19.8
305390 2008 CE_{54}	15.9	X	111.56476	339.18164	158.63602	11.06692	0.0713779	0.18494066	3.0510392	20	6 10.3	20.5
305391 2008 CP_{57}	16.3	X	239.72046	178.54115	151.09644	12.67286	0.0998609	0.17700988	3.1415047	20	4 3.5	21.1
305392 2008 CS_{57}	16.6	X	291.44354	189.50300	240.88611	2.97575	0.1488594	0.21351051	2.7724042	20	10 9.4	19.7
305393 2008 CW_{59}	16.0	X	139.90519	279.63569	160.46960	7.13889	0.0348694	0.17558206	3.1585127	20	4 29.1	20.6
305394 2008 CP_{63}	16.2	X	70.18793	301.51362	159.37505	9.36046	0.0083691	0.16798880	3.2529882	20	2 24.9	20.7
305395 2008 CW_{64}	16.0	X	73.45723	332.16325	198.00221	3.31495	0.1358155	0.18108625	3.0941811	20	6 12.4	20.2
305396 2008 CV_{67}	16.2	X	225.12249	315.50903	46.76492	7.08203	0.1560783	0.17876153	3.1209490	20	4 21.6	21.1
305397 2008 CB_{74}	16.7	X	282.20890	297.81542	136.64214	5.79136	0.1520299	0.21248597	2.7813088	20	10 2.8	20.0
305398 2008 CD_{77}	15.4	X	147.01771	2.48907	126.00311	9.72806	0.0770488	0.18913609	3.0057518	20	7 8.1	20.0
305399 2008 CG_{77}	16.0	X	211.80519	276.98002	116.78312	10.70511	0.1107927	0.18521031	3.0480771	20	5 21.4	20.8
305400 2008 CV_{77}	15.6	X	63.93250	60.31342	121.14455	14.23770	0.1167085	0.18095983	3.0956220	20	6 12.9	19.9
305401 2008 CD_{80}	15.8	X	207.02652	222.72210	135.38745	17.08415	0.0858182	0.17380602	3.1799930	20	4 7.7	20.9
305402 2008 CO_{82}	16.4	X	244.33109	128.94300	275.17883	4.86117	0.0741283	0.19679864	2.9272152	20	7 10.5	20.4
305403 2008 CR_{84}	16.1	X	202.42490	287.44640	163.41201	9.63925	0.0626670	0.19425446	2.9527186	20	7 21.2	20.5
305404 2008 CD_{85}	16.0	X	310.12030	313.72435	315.31694	6.22414	0.1073338	0.17236925	3.1976396	20	4 5.4	20.4
305405 2008 CC_{86}	16.3	X	189.50871	39.57081	12.64974	6.63956	0.1204225	0.18200591	3.0837492	20	5 17.2	21.3
305406 2008 CH_{91}	15.7	X	235.41997	19.64219	333.58868	7.89785	0.1128384	0.17838130	3.1253824	20	4 19.6	20.7
305407 2008 CZ_{91}	15.8	X	26.96662	211.60966	305.98846	10.84045	0.0542127	0.16904666	3.2394031	20	3 8.5	20.3
305408 2008 CF_{92}	15.7	X	245.19940	357.43308	354.33621	9.79406	0.0659962	0.17860820	3.1227349	20	5 3.1	20.4
305409 2008 CV_{95}	15.2	X	117.32888	310.27643	242.36624	21.54649	0.2161518	0.19058147	2.9905353	20	8 26.5	20.6
305410 2008 CX_{97}	16.1	X	215.22564	246.26400	138.72348	8.50196	0.1165684	0.18277311	3.0751138	20	5 13.6	21.0
305411 2008 CS_{104}	15.9	X	171.00011	118.96355	343.34164	14.23980	0.0630956	0.18921050	3.0049637	20	7 3.6	20.6
305412 2008 CP_{105}	16.2	X	210.16501	82.50419	352.73609	10.51501	0.0812769	0.19267432	2.9688402	20	7 12.2	20.8
305413 2008 CR_{107}	16.4	X	217.21316	263.55919	135.04225	4.17623	0.1195377	0.18656268	3.0333292	20	5 30.2	21.2
305414 2008 CG_{110}	15.6	X	171.08307	131.42389	349.64813	13.38729	0.1362203	0.18949923	3.0019105	20	7 29.0	20.6
305415 2008 CX_{113}	15.8	X	39.00283	174.29589	14.25064	5.34763	0.0771357	0.17736864	3.1372670	20	5 8.5	19.9
305416 2008 CV_{117}	16.0	X	87.05950	155.04806	18.01788	9.08158	0.0918736	0.18534385	3.0466128	20	6 27.3	20.5
305417 2008 CS_{121}	16.8	X	292.31852	96.65989	0.43350	8.73316	0.2041147	0.21909274	2.7251101	20	11 9.3	19.7
305418 2008 CE_{127}	16.0	X	144.90233	110.78356	323.21020	9.79867	0.1116139	0.17850498	3.1239386	20	4 26.9	21.0
305419 2008 CH_{133}	15.8	X	272.68818	347.47864	338.99915	9.52855	0.0787609	0.17884497	3.1199782	20	5 2.2	20.4
305420 2008 CP_{133}	16.0	X	27.43550	51.34171	144.51033	5.36204	0.0572662	0.17474042	3.1686466	20	5 2.9	20.2
305421 2008 CS_{133}	15.9	X	39.59865	3.74777	149.57429	7.94455	0.0133012	0.16854702	3.2458018	20	3 24.3	20.4
305422 2008 CF_{134}	15.9	X	293.47730	84.32660	176.23199	5.26894	0.1211333	0.16962755	3.2320032	20	3 5.5	20.4
305423 2008 CJ_{134}	15.8	X	229.48428	47.35082	279.03490	4.16797	0.1428537	0.17288039	3.1913338	20	3 12.4	20.9
305424 2008 CO_{138}	16.0	X	22.75610	124.16500	111.83259	2.82257	0.0415722	0.18182777	3.0857630	20	6 14.5	20.1
305425 2008 CY_{138}	16.4	X	157.38420	107.82023	2.92812	5.66712	0.1232812	0.18638460	3.0352609	20	6 29.1	21.3
305426 2008 CJ_{141}	16.1	X	64.24931	334.74855	173.47103	9.20721	0.0587493	0.17221770	3.1995154	20	4 23.6	20.5
305427 2008 CR_{146}	16.0	X	192.41446	75.18434	312.89522	9.58902	0.1980319	0.17999673	3.1066546	20	4 17.2	21.5
305428 2008 CU_{146}	16.7	X	204.63120	213.68940	195.81946	5.02160	0.1457193	0.18656804	3.0332710	20	5 29.7	21.6
305429 2008 CT_{147}	15.6	X	224.83238	78.09714	322.56741	15.11905	0.0779974	0.18670868	3.0317477	20	6 12.5	20.3
305430 2008 CS_{150}	15.9	X	191.71741	117.33067	325.27336	7.68029	0.0860468	0.18780798	3.0199056	20	6 29.4	20.6
305431 2008 CB_{154}	15.8	X	92.74682	140.90696	350.13278	26.77723	0.0984662	0.17560263	3.1582660	20	4 28.3	20.8
305432 2008 CK_{163}	16.5	X	272.13171	157.21634	194.17455	2.89278	0.0189761	0.19021493	2.9943758	20	6 15.3	20.6
305433 2008 CM_{163}	15.9	X	69.03482	114.49175	38.43738	4.02608	0.1579198	0.17710347	3.1403979	20	5 17.7	20.1
305434 2008 CP_{172}	16.3	X	208.00148	211.12354	165.80708	10.96474	0.0120176	0.17718637	3.1394182	20	5 1.8	20.9
305435 2008 CJ_{174}	15.8	X	18.39248	12.14039	182.57461	9.31817	0.0202358	0.17442782	3.1724312	20	4 16.8	20.1
305436 2008 CJ_{175}	16.0	X	227.34172	341.04027	97.68542	10.34544	0.0834829	0.20075182	2.8886597	20	8 4.9	20.2
305437 2008 CA_{178}	16.3	X	313.82555	337.60606	109.59732	13.55071	0.2207041	0.22256567	2.6966874	20	12 17.2	18.6
305438 2008 CU_{180}	15.3	X	184.36225	123.70399	286.19952	8.23547	0.0295058	0.18102135	3.0949207	20	5 9.0	19.9
305439 2008 CH_{186}	16.6	X	281.25866	279.93651	207.16209	11.11637	0.2689409	0.22170068	2.7036971	20	11 25.4	19.4
305440 2008 CU_{187}	15.7	X	44.90597	164.47994	44.65298	7.51590	0.0529394	0.18220871	3.0814606	20	6 10.8	19.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
305441 2008 CD_{190}	15.2	X	59.28346	129.66945	27.10287	27.45914	0.1526303	0.17501139	3.1653751	20	5 1.9	19.4
305442 2008 CQ_{192}	16.3	X	181.64444	84.97191	25.28432	1.91717	0.0215901	0.18983565	2.9983629	20	7 25.0	20.5
305443 2008 CW_{192}	16.6	X	221.19476	298.00580	154.78696	2.55251	0.0603958	0.19619335	2.9332327	20	8 16.1	20.9
305444 2008 CG_{194}	16.6	X	67.64763	354.69199	152.11880	1.54843	0.0915981	0.17025843	3.2240144	20	4 29.5	21.0
305445 2008 CM_{195}	16.5	X	99.80930	355.40232	195.08270	0.13959	0.0908817	0.18948730	3.0020365	20	8 3.9	20.8
305446 2008 CP_{195}	15.9	X	309.28687	228.21541	14.11188	1.57756	0.0827870	0.16782640	3.2550865	20	3 9.5	20.4
305447 2008 CP_{202}	16.1	X	196.18691	221.80490	160.83086	10.77586	0.0722647	0.17750174	3.1356986	20	4 23.4	20.9
305448 2008 CC_{205}	16.2	X	111.32472	340.87380	173.98591	9.34938	0.0761495	0.18442271	3.0567490	20	6 30.4	20.8
305449 2008 CL_{209}	15.8	X	115.05500	271.75200	269.66725	4.14547	0.0546214	0.19286248	2.9669090	20	8 5.3	20.1
305450 2008 CL_{211}	15.9	X	92.91133	312.26735	159.33326	13.19072	0.0654426	0.17188161	3.2036847	20	4 17.2	20.5
305451 2008 CH_{213}	15.7	X	85.57745	279.21007	275.96614	6.38532	0.0908145	0.18651344	3.0338630	20	7 22.7	19.9
305452 2008 CD_{214}	15.3	X	53.07543	155.25631	15.25114	17.48018	0.1453695	0.17555115	3.1588834	20	5 10.2	19.6
305453 2008 DC_{1}	15.7	X	265.63008	10.57043	321.58766	11.07220	0.1590018	0.18563563	3.0434196	20	4 18.6	20.5
305454 2008 DP_{4}	16.2	X	91.59818	134.02479	20.27294	9.36450	0.0873381	0.18114068	3.0935613	20	6 6.3	20.7
305455 2008 DQ_{6}	16.2	X	213.93813	93.86641	318.70421	8.57926	0.0595808	0.19078949	2.9883612	20	6 16.9	20.7
305456 2008 DU_{8}	16.5	X	147.12003	109.70371	92.00876	1.97069	0.1813812	0.20493167	2.8492464	20	10 11.8	21.2
305457 2008 DC_{10}	16.3	X	291.71788	54.90872	257.74336	1.46191	0.1151279	0.18422030	3.0589876	20	5 7.1	20.5
305458 2008 DA_{11}	16.7	X	47.18529	181.85709	104.44663	3.28351	0.0362699	0.20310802	2.8662760	20	9 25.6	20.6
305459 2008 DU_{18}	15.9	X	1.28108	84.84741	154.74427	7.40318	0.1184885	0.18017318	3.1046259	20	5 21.4	19.7
305460 2008 DD_{19}	15.9	X	327.86467	120.88250	127.05476	7.85816	0.1033433	0.17463014	3.1699804	20	4 11.1	20.1
305461 2008 DT_{23}	15.8	X	113.32756	318.69169	169.66017	11.69644	0.0386311	0.17910491	3.1169588	20	5 27.9	20.4
305462 2008 DO_{24}	15.5	X	69.29883	186.65407	34.09826	4.60452	0.0322041	0.18921000	3.0049690	20	7 28.9	19.7
305463 2008 DN_{25}	15.9	X	247.56523	67.18287	48.85251	9.78936	0.1650561	0.20986880	2.8043839	20	10 8.0	19.8
305464 2008 DB_{26}	15.8	X	303.64453	334.04181	305.21985	9.61264	0.0233505	0.17370442	3.1812329	20	4 19.5	20.5
305465 2008 DE_{30}	16.0	X	83.57742	99.90810	61.66447	17.29032	0.1509120	0.17803599	3.1294224	20	6 14.6	20.5
305466 2008 DW_{33}	15.8	X	112.09882	24.64306	121.53817	10.47008	0.0803096	0.18427333	3.0584007	20	6 21.8	20.3
305467 2008 DR_{36}	15.7	X	170.81202	100.19522	350.22866	17.07110	0.1776571	0.18452005	3.0556739	20	6 16.8	21.1
305468 2008 DU_{38}	15.6	X	48.07789	125.72606	80.64251	6.03774	0.0762417	0.17843073	3.1248052	20	6 15.2	19.7
305469 2008 DY_{38}	16.0	X	350.69697	218.83507	7.40394	5.86833	0.0610683	0.16827531	3.2492948	20	4 16.1	20.3
305470 2008 DE_{40}	15.3	X	16.98041	207.60854	23.21920	10.67786	0.1660822	0.17525189	3.1624784	20	6 4.9	19.0
305471 2008 DB_{46}	16.3	X	307.96835	186.57889	82.88049	6.09855	0.1289405	0.17133948	3.2104390	20	4 6.2	20.6
305472 2008 DM_{48}	15.5	X	93.07868	324.71810	195.77194	23.27034	0.1412139	0.17711517	3.1402595	20	6 23.1	20.5
305473 2008 DS_{48}	15.7	X	238.55552	42.07350	59.73536	15.84327	0.1063891	0.20486686	2.8498472	20	9 22.1	20.1
305474 2008 DF_{49}	15.7	X	152.05061	323.56346	127.07907	15.32929	0.0536833	0.17994078	3.1072986	20	5 29.4	20.5
305475 2008 DT_{54}	15.8	X	182.06996	11.78373	87.09521	10.84219	0.0552503	0.19137438	2.9822692	20	7 9.8	20.3
305476 2008 DY_{56}	15.7	X	0.74163	218.56554	9.18143	12.59361	0.1422520	0.17370558	3.1812188	20	4 28.3	19.6
305477 2008 DU_{59}	15.7	X	342.12227	14.26262	231.57096	4.19043	0.0901735	0.17434725	3.1734085	20	4 27.2	19.7
305478 2008 DE_{62}	15.3	X	213.89136	39.30523	348.89368	10.93182	0.0768055	0.17889816	3.1193598	20	5 11.9	20.2
305479 2008 DQ_{68}	15.8	X	152.13556	289.06743	180.21166	17.07069	0.1878675	0.18151900	3.0892614	20	6 23.9	21.2
305480 2008 DT_{71}	16.4	X	199.35209	244.22323	190.54286	2.52854	0.0743994	0.18715560	3.0269192	20	6 27.3	21.0
305481 2008 DZ_{72}	16.3	X	198.86936	239.85953	160.69894	10.63303	0.0535137	0.18117084	3.0932179	20	5 18.4	21.0
305482 2008 DG_{73}	15.9	X	216.49608	74.62378	354.36110	9.82065	0.0990626	0.19124690	2.9835944	20	7 9.3	20.6
305483 2008 DH_{74}	16.9	X	180.37162	326.76123	112.71918	2.95358	0.0577791	0.18415112	3.0597537	20	6 12.9	21.4
305484 2008 DB_{84}	15.8	X	201.54300	264.17394	160.90557	9.30664	0.1314915	0.18318352	3.0705190	20	6 15.6	20.8
305485 2008 DL_{88}	16.2	X	108.44511	92.46630	83.11917	4.17400	0.1381212	0.18428386	3.0582843	20	7 31.7	20.8
305486 2008 DC_{89}	16.4	X	177.52992	118.40461	14.39134	3.95944	0.0943765	0.19265467	2.9690421	20	8 17.2	21.0
305487 2008 EZ_{1}	15.2	X	83.07025	176.39802	348.12158	14.11075	0.0728986	0.17696281	3.1420618	20	6 5.9	19.9
305488 2008 ER_{3}	15.2	X	142.36987	312.74609	135.56592	16.60813	0.2683513	0.18060952	3.0996236	20	5 29.7	20.8
305489 2008 EN_{13}	15.7	X	183.84214	63.74986	16.18666	11.02991	0.0468346	0.18244241	3.0788287	20	6 16.5	20.4
305490 2008 EC_{14}	16.2	X	309.29960	298.44769	125.10036	6.81268	0.0061320	0.20590401	2.8402693	20	11 10.6	20.1
305491 2008 EK_{24}	16.1	X	124.00720	95.61132	37.42867	11.17979	0.0402335	0.18075532	3.0979566	20	6 12.7	20.7
305492 2008 ES_{35}	16.4	X	104.45253	102.68418	37.10340	4.09503	0.1454791	0.17905403	3.1175491	20	6 11.9	21.0
305493 2008 EQ_{40}	15.9	X	114.97070	277.38148	211.97791	8.38269	0.1591856	0.17788818	3.1311556	20	6 12.1	20.8
305494 2008 EQ_{47}	16.2	X	188.83439	18.06401	60.55048	6.12115	0.1467871	0.18034725	3.1026280	20	6 18.7	21.3
305495 2008 EK_{58}	16.4	X	228.40964	264.74304	170.02018	6.25755	0.0703734	0.19717431	2.9234959	20	7 30.5	20.6
305496 2008 EN_{68}	15.9	X	69.22911	32.60746	107.54507	5.85723	0.1000898	0.17111573	3.2132370	20	4 26.3	20.3
305497 2008 EP_{74}	16.1	X	95.91208	87.97417	114.41314	3.13376	0.0713449	0.18727273	3.0256569	20	8 12.5	20.3
305498 2008 EU_{74}	15.9	X	175.67820	97.57470	17.16107	8.84921	0.0607308	0.18698827	3.0287248	20	7 24.9	20.5
305499 2008 EJ_{87}	15.5	X	155.20362	131.41354	344.14551	10.35663	0.0340535	0.18341205	3.0679679	20	6 30.1	20.1
305500 2008 EM_{96}	16.0	X	185.02611	89.00608	336.53298	9.43351	0.1067922	0.18439938	3.0570069	20	5 28.9	21.0
305501 2008 EM_{98}	15.2	X	26.16197	219.03463	347.81132	21.93335	0.0825613	0.17843594	3.1247444	20	5 4.2	19.7
305502 2008 EU_{100}	15.0	X	147.58466	41.17131	44.04681	14.75042	0.0625003	0.17332300	3.1858983	20	5 13.3	19.7
305503 2008 EK_{108}	16.2	X	186.69447	277.06474	158.83166	9.93293	0.1590172	0.18837532	3.0138390	20	6 14.4	21.3
305504 2008 ED_{109}	15.9	X	254.60256	197.39791	151.70013	12.20090	0.1858975	0.18433194	3.0577525	20	5 4.0	20.8
305505 2008 EB_{116}	16.2	X	170.55344	93.83886	4.56991	1.44463	0.0375123	0.18171343	3.0870574	20	6 25.3	20.7
305506 2008 EL_{116}	16.4	X	116.92683	303.84723	153.24806	3.24009	0.1255235	0.17015250	3.2253522	20	5 2.9	21.2
305507 2008 EK_{117}	16.4	X	131.10707	134.10096	14.99053	11.77841	0.1072774	0.18310555	3.0713905	20	7 22.2	21.3
305508 2008 EE_{146}	15.4	X	35.79654	50.90335	140.81696	8.05867	0.0360064	0.17007199	3.2263701	20	5 8.7	19.9
305509 2008 ET_{146}	16.0	X	142.24473	14.54734	104.89568	11.20829	0.0415153	0.18116354	3.0933010	20	6 19.2	20.6
305510 2008 EX_{148}	16.2	X	164.59993	203.54340	259.74638	2.67833	0.1458015	0.18218994	3.0816723	20	6 26.8	21.2
305511 2008 EE_{150}	15.7	X	203.99488	39.21444	32.68208	9.89686	0.0514269	0.18355809	3.0663404	20	6 30.7	20.3
305512 2008 EU_{158}	15.6	X	128.02860	262.67209	86.21497	4.82566	0.0969186	0.14458500	3.5951793	20	1 7.5	20.9
305513 2008 EC_{163}	16.0	X	18.70229	278.68053	305.36717	5.69494	0.1201443	0.17384603	3.1795052	20	5 27.5	19.9
305514 2008 EB_{167}	16.1	X	137.20058	88.43892	59.86522	6.81480	0.1215445	0.18594661	3.0400253	20	7 26.8	20.9
305515 2008 FF_{4}	15.8	X	333.03582	243.86457	346.52268	7.29286	0.0386299	0.16794433	3.2535625	20	3 29.2	20.3
305516 2008 FQ_{9}	16.5	X	232.73084	18.56696	18.58974	1.94196	0.0576915	0.18655676	3.0333932	20	6 19.3	21.0
305517 2008 FB_{11}	16.1	X	231.47895	267.90855	123.98736	6.69873	0.0777496	0.18516941	3.0485259	20	6 9.7	20.7
305518 2008 FG_{12}	16.1	X	225.02689	58.60452	342.10520	12.83123	0.0588132	0.18588214	3.0407282	20	6 14.1	20.8
305519 2008 FE_{17}	16.2	X	147.48556	227.72892	185.24496	10.34808	0.0234383	0.16832239	3.2486888	20	4 2.3	20.7
305520 2008 FU_{18}	16.8	X	149.54891	13.38882	81.98415	0.36272	0.1183243	0.17993302	3.1073879	20	6 1.6	21.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
305521 2008 FV_{19}	16.4	X	178.15126	31.80851	22.74671	1.05631	0.1708182	0.17848449	3.1241777	20	5 11.0	21.4
305522 2008 FA_{35}	15.9	X	222.35970	29.92191	4.20650	3.74893	0.1277948	0.18198885	3.0839419	20	5 27.7	20.8
305523 2008 FV_{36}	15.8	X	157.22456	75.70248	2.93078	18.89694	0.1034982	0.17719910	3.1392679	20	5 11.9	20.9
305524 2008 FC_{43}	16.2	X	212.24219	218.07843	200.20751	1.59667	0.0934889	0.18359285	3.0659534	20	6 19.5	20.9
305525 2008 FB_{60}	15.8	X	81.08342	158.00854	39.79731	9.18621	0.1531958	0.18188163	3.0851538	20	8 2.2	20.4
305526 2008 FB_{64}	16.4	X	114.52830	181.40638	326.97003	4.33035	0.1130328	0.18471942	3.0534748	20	6 30.9	20.9
305527 2008 FN_{91}	15.9	X	168.67131	85.25663	6.95071	14.04702	0.0351659	0.18170637	3.0871374	20	6 13.7	20.6
305528 2008 FK_{123}	15.5	X	123.98942	266.15796	210.20844	24.87853	0.2323899	0.17302884	3.1895081	20	6 9.7	21.1
305529 2008 FS_{123}	15.7	X	135.48776	55.07107	48.35306	18.34960	0.2886195	0.17462617	3.1700285	20	6 5.9	21.3
305530 2008 FZ_{125}	17.0	X	243.89120	322.24511	115.09530	9.68383	0.1906805	0.20087211	2.8875064	20	8 8.4	21.4
305531 2008 GS_{2}	16.5	X	118.87435	133.06401	39.32924	2.33696	0.1471517	0.18527862	3.0473278	20	8 8.4	21.3
305532 2008 GS_{7}	15.8	X	47.22846	346.06023	216.77756	16.00309	0.0842780	0.17537723	3.1609714	20	6 10.1	20.1
305533 2008 GN_{10}	15.9	X	97.18479	120.83278	38.27445	13.87983	0.1431980	0.17472302	3.1688570	20	6 27.7	20.8
305534 2008 GW_{27}	16.1	X	156.22650	15.85044	60.67200	1.73416	0.1690066	0.17701168	3.1414834	20	5 18.4	21.3
305535 2008 GE_{52}	16.5	X	173.36720	287.35143	152.78504	1.42451	0.1713888	0.17934213	3.1142096	20	6 6.9	21.7
305536 2008 GU_{59}	15.7	X	208.68642	218.29497	156.12624	10.72215	0.0703356	0.17124126	3.2116664	20	4 27.2	20.7
305537 2008 GM_{64}	16.4	X	215.87719	13.70001	61.87915	3.50495	0.1086170	0.18698707	3.0287377	20	7 14.6	21.0
305538 2008 GR_{82}	15.5	X	65.64134	129.78721	48.65796	11.02341	0.0339417	0.17219136	3.1998415	20	5 27.2	20.0
305539 2008 GE_{129}	16.1	X	114.72131	111.62117	44.05342	10.49781	0.1612661	0.17660330	3.1463245	20	7 16.1	21.1
305540 2008 HB_{7}	15.9	X	130.66780	131.91058	8.06632	11.35540	0.0601501	0.18207018	3.0830235	20	7 4.3	20.6
305541 2008 HN_{20}	16.3	X	106.51854	310.50410	211.20341	11.49454	0.1423146	0.17825541	3.1268538	20	7 9.4	21.3
305542 2008 HU_{48}	16.1	X	121.29483	309.96851	182.30254	17.22789	0.2011256	0.17526127	3.1623656	20	6 25.0	21.5
305543 2008 QY_{40}	5.5	X	357.82495	331.41037	43.18435	25.16363	0.4097544	0.00200056	62.3784823	20	10 11.1	21.2
305544 2008 QS_{47}	13.2	X	301.32379	115.66695	299.56535	15.26534	0.1409231	0.08451186	5.1426971	20	9 7.5	19.9
305545 2008 SO_{73}	17.5	X	249.19289	347.78742	319.74555	6.38213	0.1144414	0.30024673	2.2087702	20	2 29.8	20.7
305546 2008 SP_{211}	18.2	X	274.60467	270.91093	71.12762	4.50875	0.1327300	0.30642650	2.1789729	20	5 18.9	20.8
305547 2008 SY_{256}	17.1	X	187.57439	302.07382	64.39974	7.65456	0.1334870	0.29675092	2.2260829	20	3 19.4	20.4
305548 2008 TO_{22}	17.7	X	129.01605	96.98168	37.71981	8.05790	0.0534893	0.30524740	2.1845806	20	6 27.7	20.5
305549 2008 UV_{38}	17.4	X	275.61132	89.10159	243.63580	3.82204	0.2118784	0.30817387	2.1707285	20	4 23.2	20.1
305550 2008 UL_{70}	17.5	X	16.78321	292.58877	335.06937	5.71527	0.1531523	0.31308241	2.1479802	20	8 14.4	19.0
305551 2008 UJ_{119}	17.6	X	268.66491	28.52164	354.14428	3.84370	0.0137625	0.31337782	2.1466301	20	8 2.8	19.8
305552 2008 UC_{126}	17.7	X	25.71061	164.37049	14.72851	6.19870	0.1197048	0.28737360	2.2742497	20	3 30.0	19.6
305553 2008 UL_{182}	18.3	X	76.05618	324.56588	183.64386	3.29109	0.0427345	0.29870372	2.2163702	20	4 30.5	20.8
305554 2008 UM_{187}	17.2	X	232.08060	225.36439	83.41347	6.81931	0.1974972	0.28874193	2.2670590	20	2 14.9	20.9
305555 2008 UM_{217}	17.4	X	279.02305	20.42906	257.05609	5.42044	0.1829847	0.29612755	2.2292058	20	2 15.2	20.6
305556 2008 UG_{270}	18.0	X	59.36175	4.91713	163.45515	3.26657	0.0884426	0.29653527	2.2271620	20	5 12.2	20.2
305557 2008 UJ_{282}	16.5	X	128.11306	232.50904	61.41271	7.93269	0.1177744	0.25960017	2.4336946	20	—	—
305558 2008 UT_{304}	17.4	X	142.25608	235.39982	181.34172	6.86667	0.0554710	0.29150331	2.2527192	20	3 25.3	20.1
305559 2008 UQ_{336}	17.2	X	302.61654	190.08821	40.59593	5.98984	0.1058900	0.28383050	2.2931370	20	1 28.6	20.1
305560 2008 UR_{370}	16.4	X	11.91877	217.52699	107.35884	10.15095	0.1408390	0.22913674	2.6448815	20	10 19.2	19.6
305561 2008 VA_{23}	17.0	X	342.08042	49.47926	90.80156	8.25167	0.0470226	0.25880943	2.4386491	20	—	—
305562 2008 VT_{39}	17.7	X	139.58792	75.42747	27.42743	6.09993	0.0839488	0.29689311	2.2253721	20	5 27.6	20.7
305563 2008 VL_{58}	16.7	X	33.58903	21.22933	105.68370	13.11298	0.1261190	0.26715437	2.3875979	20	1 29.6	19.0
305564 2008 VO_{76}	17.7	X	84.39504	44.33028	126.67761	4.06584	0.1001310	0.30056949	2.2071887	20	6 25.9	20.2
305565 2008 WH_{42}	17.5	X	284.84731	275.99081	52.23736	6.84649	0.0484954	0.30273609	2.1966452	20	5 27.2	19.9
305566 2008 WK_{45}	17.0	X	235.48949	25.72807	249.71488	6.32460	0.1728348	0.27930333	2.3178499	20	1 6.7	20.7
305567 2008 WC_{58}	17.8	X	216.19161	158.33872	215.03764	4.67917	0.1287488	0.30012429	2.2093708	20	4 22.6	20.7
305568 2008 WR_{72}	17.6	X	250.90086	79.41435	265.00685	7.55253	0.1947496	0.30122143	2.2040028	20	4 11.7	20.9
305569 2008 WG_{89}	18.1	X	118.62989	156.48503	288.15556	2.61897	0.1297284	0.28187371	2.3037376	20	4 11.7	21.0
305570 2008 WG_{113}	17.3	X	307.50375	211.34159	71.82938	8.99444	0.1851827	0.29795455	2.2200838	20	4 6.5	19.8
305571 2008 WZ_{139}	17.3	X	15.11566	216.44147	268.80148	1.67629	0.1284302	0.26185409	2.4197090	20	—	—
305572 2008 WE_{140}	16.1	X	105.86224	274.84590	312.28548	3.94280	0.0997938	0.21353070	2.7722294	20	9 28.0	20.2
305573 2008 XJ_{3}	16.1	X	152.45884	298.83616	247.17854	26.70664	0.0459828	0.23257388	2.6187583	20	9 19.1	20.5
305574 2008 XA_{30}	16.9	X	109.71723	8.84367	93.85987	6.29820	0.1050465	0.28852785	2.2681802	20	4 25.9	19.7
305575 2008 XO_{37}	17.2	X	66.02797	206.95378	36.78243	2.93825	0.1104358	0.31313460	2.1477415	20	9 20.7	19.6
305576 2008 XC_{47}	16.5	X	103.73043	358.67902	74.82540	25.60103	0.2175240	0.27803331	2.3249029	20	4 9.2	20.2
305577 2008 YY_{5}	16.3	X	194.62738	286.02982	262.59021	5.01457	0.0240999	0.24305182	2.5429440	20	11 26.4	19.8
305578 2008 YZ_{12}	17.6	X	142.95979	220.47796	142.35862	1.70049	0.1360348	0.27101572	2.3648652	20	1 26.2	20.8
305579 2008 YG_{17}	16.9	X	281.49208	264.17678	300.05206	5.49087	0.0523952	0.26002722	2.4310292	20	—	—
305580 2008 YO_{22}	16.2	X	82.84865	282.50874	291.51946	6.43300	0.1632157	0.20982577	2.8047673	20	8 23.2	20.3
305581 2008 YU_{42}	17.1	X	13.73446	328.87387	267.74214	7.03057	0.0797493	0.29845319	2.2176103	20	6 4.8	19.1
305582 2008 YX_{44}	17.6	X	335.02704	127.81000	57.93762	3.35017	0.1406194	0.26803401	2.3823713	20	1 8.2	20.3
305583 2008 YP_{46}	17.4	X	48.15756	142.16096	20.06041	2.08257	0.1375819	0.28062787	2.3105508	20	4 19.2	19.5
305584 2008 YX_{47}	17.7	X	309.48819	116.46232	72.80038	2.46757	0.1221737	0.26294500	2.4130118	20	—	—
305585 2008 YP_{50}	17.2	X	42.39369	89.65477	24.04355	2.80801	0.1249714	0.26795048	2.3828664	20	1 26.6	19.3
305586 2008 YC_{53}	17.4	X	45.99425	77.47188	40.56597	2.88246	0.1444991	0.27015180	2.3699043	20	2 10.1	19.5
305587 2008 YC_{63}	17.9	X	353.70342	332.67086	181.16549	2.91992	0.1150775	0.26548652	2.3975871	20	—	—
305588 2008 YM_{64}	17.3	X	325.26801	315.21491	246.16530	4.19477	0.1604312	0.26703647	2.3883007	20	1 11.3	20.3
305589 2008 YG_{75}	16.2	X	164.48508	254.97416	309.24508	11.61858	0.2039520	0.22868023	2.6484003	20	10 25.4	21.0
305590 2008 YD_{87}	16.9	X	267.36165	38.28980	261.06122	5.15636	0.1366266	0.28592352	2.2819325	20	3 8.0	20.2
305591 2008 YA_{88}	17.3	X	203.97727	309.47358	107.61089	7.56831	0.1380375	0.29951942	2.2123443	20	6 8.8	20.6
305592 2008 YO_{95}	16.9	X	254.23754	281.43779	293.75386	5.32243	0.0708972	0.25693476	2.4504968	20	—	—
305593 2008 YR_{95}	16.6	X	102.39862	236.84598	110.34970	7.67072	0.2586773	0.26048598	2.4281741	20	—	—
305594 2008 YL_{100}	17.0	X	176.34008	1.30729	296.12870	4.95220	0.1456914	0.25893442	2.4378643	20	—	—
305595 2008 YD_{106}	17.3	X	275.99388	210.33732	101.70342	5.55897	0.0475643	0.28539287	2.2847603	20	4 24.1	20.1
305596 2008 YQ_{108}	17.6	X	28.74573	150.49863	358.71012	1.39102	0.1198569	0.27178795	2.3603836	20	2 20.9	19.9
305597 2008 YY_{118}	18.2	X	199.02604	278.06540	108.40900	3.41279	0.2383728	0.29110978	2.2547489	20	4 22.7	21.9
305598 2008 YF_{120}	16.5	X	92.93132	243.95467	328.02946	4.07511	0.0479845	0.21905734	2.7254037	20	8 20.7	20.1
305599 2008 YB_{124}	16.7	X	275.88285	359.56278	268.00341	5.81460	0.0912528	0.27560281	2.3385516	20	2 12.1	19.8
305600 2008 YC_{127}	17.1	X	174.77687	209.92587	104.16755	6.86057	0.1481307	0.26387130	2.4073613	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
305601 2008 YC_{134}	17.4	X	341.32110	54.72020	266.09528	1.69479	0.2001170	0.31712178	2.1297012	20	8 27.7	18.3
305602 2008 YN_{135}	17.5	X	65.98415	66.87651	80.16706	6.47737	0.2460255	0.27853393	2.3221164	20	5 19.2	19.9
305603 2008 YV_{135}	17.6	X	10.36446	97.17218	16.39946	1.54874	0.1415583	0.26401239	2.4065036	20	—	—
305604 2008 YW_{144}	17.4	X	138.47461	83.83105	271.07243	5.65723	0.0884167	0.26490518	2.4010936	20	1 5.2	20.4
305605 2008 YZ_{152}	17.7	X	180.79221	35.76230	339.86057	3.13414	0.2335213	0.28212969	2.3023439	20	3 23.6	21.4
305606 2008 YF_{154}	17.1	X	142.98042	115.93991	121.68260	4.81918	0.1242826	0.23427313	2.6060799	20	11 24.2	21.2
305607 2008 YR_{156}	17.3	X	120.78626	244.32817	149.13477	4.92009	0.1409384	0.27161542	2.3613830	20	2 9.1	20.4
305608 2008 YG_{157}	18.2	X	100.67084	343.01392	127.01657	5.09720	0.0805968	0.28298635	2.2976951	20	4 20.1	21.0
305609 2008 YH_{158}	17.5	X	159.45091	282.03141	81.28660	3.68209	0.2001165	0.27562486	2.3384268	20	2 20.2	21.2
305610 2008 YL_{158}	16.7	X	28.67953	273.64522	126.88204	4.70006	0.0429699	0.24262434	2.5459300	20	—	—
305611 2008 YW_{159}	17.2	X	131.25749	323.74676	100.72626	5.55916	0.1305527	0.27710584	2.3300877	20	4 4.5	20.4
305612 2008 YY_{160}	17.6	X	127.25909	91.03603	23.16211	6.49733	0.1212063	0.28976973	2.2616950	20	6 1.3	20.7
305613 2008 YE_{170}	16.6	X	303.23524	121.83918	31.08172	15.99477	0.1453749	0.25135204	2.4866487	20	—	—
305614 2008 YV_{170}	17.3	X	332.87371	20.25236	202.14645	1.96874	0.0872641	0.27650362	2.3334697	20	3 1.8	20.0
305615 2009 AL_{1}	17.3	X	96.03957	7.26926	111.32852	7.26760	0.0530862	0.28539819	2.2847319	20	4 22.4	20.1
305616 2009 AM_{10}	17.5	X	244.06697	229.87275	97.35971	3.35547	0.0457466	0.28400600	2.2921922	20	4 1.8	20.3
305617 2009 AX_{15}	17.6	X	213.07581	341.68686	72.78376	4.20203	0.1991883	0.30221379	2.1991754	20	6 10.1	20.7
305618 2009 AN_{19}	16.8	X	189.93540	327.65383	242.00817	2.29086	0.1613492	0.23829939	2.5766421	20	12 2.6	20.7
305619 2009 AP_{23}	15.9	X	77.03418	167.58659	110.27903	13.68480	0.1700939	0.22943439	2.6425935	20	11 15.5	20.1
305620 2009 AT_{24}	17.0	X	223.54277	67.08326	127.32361	5.69857	0.1038433	0.24122451	2.5557699	20	12 28.6	20.3
305621 2009 AE_{29}	17.5	X	323.14106	135.00114	2.62969	2.46769	0.1433331	0.25648402	2.4533670	20	—	—
305622 2009 AV_{30}	17.1	X	254.81518	197.17676	110.86032	7.25644	0.1376939	0.28439661	2.2900929	20	3 11.7	20.5
305623 2009 AD_{32}	16.7	X	132.46597	309.05137	289.62324	3.06102	0.1334876	0.22900866	2.6458676	20	11 12.8	20.9
305624 2009 AD_{33}	17.2	X	203.69347	69.63890	282.22007	4.38468	0.1881925	0.28093002	2.3088938	20	3 11.1	21.1
305625 2009 AJ_{36}	16.7	X	131.28601	346.91666	305.74102	2.29035	0.1632634	0.24080003	2.5587726	20	—	—
305626 2009 AH_{41}	17.9	X	110.47965	117.03658	1.64562	3.22988	0.0685953	0.28591624	2.2819713	20	5 10.5	20.8
305627 2009 AO_{45}	15.8	X	305.09143	60.87309	181.78953	10.17875	0.0924424	0.17496495	3.1659352	20	2 29.7	20.3
305628 2009 BQ_{2}	17.3	X	28.55072	220.38762	284.70516	5.12831	0.2115454	0.27125877	2.3634524	20	2 11.7	18.7
305629 2009 BM_{8}	17.7	X	82.43318	275.27265	161.64266	2.52930	0.1856802	0.27347296	2.3506779	20	2 21.0	19.8
305630 2009 BS_{9}	16.3	X	32.44304	198.30666	304.69930	6.83804	0.1605291	0.27019402	2.3696574	20	2 17.6	18.3
305631 2009 BN_{12}	16.7	X	123.91886	250.92767	19.02102	12.01160	0.0480937	0.23602488	2.5931692	20	12 11.1	20.6
305632 2009 BB_{13}	16.8	X	359.13628	263.50576	260.50219	3.11469	0.0804599	0.26672670	2.3901494	20	1 23.4	19.3
305633 2009 BY_{22}	17.2	X	282.07070	82.95236	46.35234	3.37884	0.1101231	0.24058572	2.5602920	20	12 26.9	20.1
305634 2009 BC_{25}	16.9	X	281.46074	190.20046	76.40099	5.12939	0.0941820	0.27449620	2.3448325	20	2 22.2	20.0
305635 2009 BM_{25}	17.0	X	12.80667	57.17895	74.61291	3.27329	0.1634322	0.26222283	2.4174401	20	—	—
305636 2009 BR_{30}	17.7	X	119.20309	12.60567	27.13851	1.84694	0.1844081	0.27308557	2.3529004	20	2 22.6	20.6
305637 2009 BG_{31}	17.5	X	150.00656	259.93970	83.99816	2.62156	0.2042736	0.26514401	2.3996515	20	1 18.7	21.1
305638 2009 BD_{36}	17.4	X	179.43318	315.07204	54.30889	3.50795	0.2209714	0.27951715	2.3166677	20	3 16.9	21.2
305639 2009 BA_{39}	16.9	X	77.90055	116.80013	326.10728	6.19424	0.1090776	0.26903148	2.3764790	20	2 11.3	19.2
305640 2009 BZ_{39}	15.6	X	313.02657	292.63430	131.01203	22.44799	0.0546199	0.23283372	2.6168097	20	11 25.3	19.4
305641 2009 BD_{40}	17.0	X	116.77197	203.00655	122.10755	7.95426	0.0122199	0.24705927	2.5153704	20	—	—
305642 2009 BR_{41}	17.3	X	305.47014	164.59671	36.81047	3.03576	0.1151695	0.25999593	2.4312242	20	—	—
305643 2009 BP_{42}	17.3	X	16.59472	156.79210	341.04479	1.95882	0.1361269	0.26510089	2.3999117	20	1 12.2	19.3
305644 2009 BA_{44}	16.9	X	157.73856	132.64865	159.02790	3.77424	0.0919891	0.24621813	2.5210959	20	—	—
305645 2009 BH_{45}	16.7	X	30.83771	227.16459	144.07927	14.98067	0.0893633	0.23747420	2.5826076	20	—	—
305646 2009 BX_{47}	17.0	X	185.48250	0.55890	314.72089	5.45872	0.1278336	0.26389761	2.4072013	20	1 12.0	20.5
305647 2009 BG_{51}	16.8	X	88.45520	306.47057	340.71248	3.64554	0.0574386	0.22786251	2.6547327	20	11 21.7	20.6
305648 2009 BW_{51}	17.6	X	126.57979	269.60984	102.57239	2.31033	0.1374321	0.26609099	2.3939547	20	1 20.2	20.7
305649 2009 BF_{53}	17.2	X	125.49382	279.74737	110.47203	4.80276	0.2270073	0.27249389	2.3563052	20	2 23.7	20.4
305650 2009 BW_{54}	17.5	X	58.52346	57.93882	87.59610	3.15794	0.1563430	0.27708095	2.3302272	20	4 17.9	19.7
305651 2009 BL_{55}	16.8	X	5.61440	204.69843	316.41679	11.77110	0.1092512	0.26776770	2.3839506	20	1 28.6	19.2
305652 2009 BB_{56}	17.0	X	76.40975	119.21900	312.83171	6.36657	0.1013872	0.26881022	2.3777829	20	1 23.7	19.3
305653 2009 BW_{57}	15.8	X	106.17632	326.34067	313.44901	14.09822	0.0697109	0.23459769	2.6036758	20	12 4.9	19.9
305654 2009 BY_{61}	18.0	X	95.41355	108.33831	293.38317	1.48177	0.2157676	0.26692089	2.3889900	20	1 29.3	20.6
305655 2009 BZ_{64}	17.5	X	19.07934	121.81362	10.23008	2.41584	0.1239121	0.26454063	2.4032989	20	1 9.6	19.9
305656 2009 BU_{68}	17.1	X	293.70008	340.09878	200.14290	1.55515	0.1457741	0.25404971	2.4690142	20	—	—
305657 2009 BS_{69}	17.5	X	35.80191	126.33864	342.53428	2.22534	0.1437213	0.26681424	2.3896266	20	1 6.0	19.5
305658 2009 BD_{71}	17.1	X	46.17829	149.38429	300.30400	6.89250	0.1180868	0.26430079	2.4047526	20	—	—
305659 2009 BE_{73}	17.3	X	359.42733	158.79185	335.27564	1.83895	0.1482757	0.26068406	2.4269439	20	—	—
305660 Romyhaag	17.1	X	123.15640	165.79819	119.42078	15.65480	0.1584810	0.24347168	2.5400197	20	—	—
305661 Joejackson	19.0	X	90.08308	186.46718	203.99652	1.13107	0.1956180	0.26550927	2.3974502	20	1 1.8	21.5
305662 2009 BM_{76}	16.9	X	335.66302	116.82137	50.34294	6.68010	0.0900847	0.25961300	2.4336144	20	—	—
305663 2009 BP_{77}	17.0	X	344.53682	166.91276	335.97494	10.87528	0.2286349	0.25855090	2.4402745	20	—	—
305664 2009 BH_{80}	17.1	X	8.01027	96.66462	39.18096	4.35659	0.0724694	0.26367237	2.4085720	20	—	—
305665 2009 BM_{80}	16.7	X	354.09996	91.16998	62.65356	5.87866	0.1010166	0.26369284	2.4084474	20	—	—
305666 2009 BY_{80}	16.5	X	64.30724	130.75836	347.37980	23.42633	0.2441540	0.27367880	2.3494991	20	3 23.6	18.8
305667 2009 BF_{83}	16.6	X	297.70152	151.92854	50.91601	10.01090	0.1543456	0.25748605	2.4469978	20	—	—
305668 2009 BN_{85}	17.7	X	33.61678	259.52808	269.98685	1.48582	0.1361893	0.27621457	2.3350973	20	3 31.9	19.8
305669 2009 BZ_{89}	17.2	X	285.06244	332.99653	242.41808	0.40805	0.1361050	0.25881135	2.4386371	20	—	—
305670 2009 BL_{90}	17.2	X	179.65121	272.21394	134.04837	6.75229	0.0892424	0.28548942	2.2842451	20	5 1.2	20.5
305671 2009 BA_{93}	17.8	X	75.26665	304.18619	152.91799	4.96103	0.1480970	0.27199819	2.3591671	20	3 3.9	20.0
305672 2009 BF_{93}	17.1	X	129.27676	265.44398	149.65639	6.47475	0.0940411	0.27485493	2.3427918	20	3 14.2	20.0
305673 2009 BH_{93}	17.3	X	47.89959	270.89140	166.18709	2.22810	0.1359994	0.26101159	2.4249131	20	—	—
305674 2009 BX_{93}	17.3	X	332.10523	321.61934	202.90485	1.27079	0.1326110	0.25897456	2.4376124	20	—	—
305675 2009 BO_{99}	15.7	X	107.80758	303.90889	355.36357	9.66000	0.1665149	0.23918290	2.5702930	20	—	—
305676 2009 BF_{100}	17.1	X	178.83603	24.84800	330.38407	6.20562	0.1744763	0.27677829	2.3319257	20	2 24.3	20.6
305677 2009 BA_{104}	16.5	X	139.62253	345.43020	148.50000	7.41137	0.0899928	0.20537605	2.8451348	20	7 8.1	20.9
305678 2009 BS_{104}	16.9	X	51.13107	278.54031	147.07154	9.35664	0.0784425	0.25626690	2.4547525	20	—	—
305679 2009 BP_{106}	17.5	X	338.84006	82.35905	110.81283	3.57651	0.1195014	0.26467345	2.4024948	20	1 28.2	20.1
305680 2009 BH_{107}	17.2	X	321.41781	7.38699	144.85020	3.99641	0.0576782	0.25484921	2.4638477	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
305681 2009 BR_{107}	17.7	X	61.41905	337.85919	109.98155	3.00464	0.1584878	0.26436313	2.4043746	20	1 27.9	19.8
305682 2009 BA_{115}	17.0	X	343.26605	56.33500	105.52104	3.68137	0.0531921	0.26259524	2.4151540	20	1 1.6	20.0
305683 2009 BK_{117}	17.0	X	114.19665	212.72412	17.82792	5.07005	0.0532054	0.22165171	2.7040953	20	10 10.8	20.7
305684 2009 BB_{124}	17.5	X	6.25758	259.40971	154.82829	5.51024	0.1041583	0.24338644	2.5406127	20	—	—
305685 2009 BY_{124}	16.4	X	35.12728	129.71665	151.79656	8.64712	0.1637213	0.20959094	2.8068619	20	9 22.6	19.8
305686 2009 BF_{125}	17.4	X	177.24793	141.79106	131.90521	3.15301	0.0354263	0.24475463	2.5311357	20	—	—
305687 2009 BM_{125}	17.3	X	138.85817	266.90230	135.38023	7.10038	0.2234843	0.27726838	2.3291770	20	3 23.8	20.8
305688 2009 BF_{127}	16.5	X	124.64799	148.93521	150.00683	8.54968	0.1568967	0.24050846	2.5608402	20	—	—
305689 2009 BS_{129}	16.7	X	12.15370	291.61614	111.58912	6.28723	0.0124089	0.23959040	2.5673777	20	—	—
305690 2009 BB_{130}	16.3	X	51.38377	231.91077	57.84980	3.99477	0.2175305	0.21435698	2.7651008	20	11 1.7	20.1
305691 2009 BH_{130}	16.9	X	49.82130	340.78250	118.24847	5.66585	0.1422483	0.26329270	2.4108869	20	1 20.2	19.1
305692 2009 BT_{130}	15.5	X	256.48717	296.20684	356.17906	15.79956	0.2251577	0.17755873	3.1350276	20	2 25.5	20.6
305693 2009 BB_{131}	17.5	X	93.56682	91.03768	9.96941	6.78779	0.0636620	0.27263653	2.3554833	20	3 24.1	20.1
305694 2009 BM_{138}	16.9	X	110.53604	153.18017	149.98386	4.79774	0.0616845	0.24152519	2.5536484	20	—	—
305695 2009 BT_{146}	17.5	X	76.08493	297.71323	186.76642	4.20831	0.0977435	0.27375485	2.3490639	20	4 5.6	20.0
305696 2009 BA_{147}	16.9	X	113.43218	61.69846	258.42740	1.93496	0.0556525	0.24111275	2.5565596	20	—	—
305697 2009 BR_{149}	16.4	X	75.60050	183.84612	157.03130	9.41321	0.1724197	0.23816897	2.5775827	20	—	—
305698 2009 BE_{157}	17.1	X	222.71583	244.05809	331.19472	2.38126	0.1599727	0.23947192	2.5682245	20	—	—
305699 2009 BY_{157}	18.1	X	66.18225	140.23377	338.95122	3.76978	0.1910335	0.27185661	2.3599861	20	3 26.2	20.3
305700 2009 BR_{165}	17.9	X	73.78204	78.10672	21.40893	3.36442	0.1230514	0.27090656	2.3655004	20	3 2.1	20.3
305701 2009 BV_{166}	17.9	X	120.68334	2.60584	46.54423	3.35336	0.1913625	0.27010847	2.3701578	20	3 9.8	21.1
305702 2009 BO_{168}	16.7	X	130.11037	121.46116	281.94674	6.32138	0.0656632	0.26980167	2.3719542	20	2 21.1	19.7
305703 2009 BE_{169}	17.4	X	86.57579	244.00922	255.40548	4.28834	0.0867226	0.28105762	2.3081949	20	5 10.1	20.2
305704 2009 BG_{172}	17.4	X	136.68174	102.50524	161.42820	5.09959	0.0986039	0.23558173	2.5964202	20	12 19.4	21.3
305705 2009 BD_{175}	16.9	X	112.66095	305.03015	115.64660	7.76451	0.1627144	0.27423575	2.3463169	20	3 12.7	20.0
305706 2009 BR_{176}	16.9	X	211.44732	214.63730	341.93153	4.47667	0.0986637	0.23354342	2.6115056	20	12 15.2	20.6
305707 2009 BS_{176}	17.7	X	91.46982	253.35179	160.30309	2.63346	0.1679110	0.26308902	2.4121311	20	2 1.3	20.2
305708 2009 BA_{177}	17.5	X	3.80744	232.04799	245.92217	1.54138	0.1085391	0.25648593	2.4533548	20	—	—
305709 2009 BN_{178}	17.6	X	359.03767	270.40181	179.66330	7.50947	0.1783795	0.24506361	2.5290078	20	—	—
305710 2009 BU_{179}	17.8	X	199.43765	91.49607	242.82221	0.76113	0.0914649	0.27066389	2.3669141	20	2 16.1	21.2
305711 2009 BF_{181}	16.6	X	181.07764	83.19994	149.45638	6.37665	0.0910712	0.23723955	2.5843103	20	12 27.7	20.3
305712 2009 BJ_{181}	17.5	X	65.79637	305.97630	152.87856	6.52062	0.1156170	0.27202321	2.3590225	20	2 13.6	19.7
305713 2009 BG_{182}	16.7	X	69.66336	136.70529	134.60732	5.89413	0.0823657	0.21795625	2.7345749	20	10 15.2	20.5
305714 2009 BL_{182}	18.1	X	142.89470	10.65610	51.19412	1.11700	0.1440332	0.27953032	2.3165949	20	4 12.5	21.2
305715 2009 BU_{188}	16.1	X	340.82615	66.78068	183.99969	9.42034	0.0494043	0.18557372	3.0440964	20	5 6.5	20.2
305716 2009 CQ_{6}	17.4	X	109.79461	352.37457	108.33634	6.24183	0.1154027	0.28045644	2.3114922	20	4 25.4	20.4
305717 2009 CH_{7}	17.0	X	235.41958	84.48455	114.52375	8.07040	0.1546913	0.23918808	2.5702559	20	—	—
305718 2009 CC_{11}	17.5	X	100.66523	183.75947	285.40820	4.00754	0.1173578	0.27886814	2.3202607	20	4 20.4	20.5
305719 2009 CF_{14}	17.3	X	99.01920	80.32958	349.63943	6.12520	0.1627742	0.27379215	2.3488506	20	3 4.4	19.9
305720 2009 CM_{20}	17.2	X	188.42470	179.98606	184.27264	2.84548	0.2380677	0.28081571	2.3095203	20	3 16.4	21.1
305721 2009 CH_{26}	16.6	X	16.63472	312.73470	343.00771	11.88608	0.1418401	0.21159204	2.7891369	20	9 7.0	19.8
305722 2009 CS_{28}	17.1	X	189.85848	209.85308	348.44201	4.35457	0.0642353	0.23115105	2.6294937	20	11 25.1	20.9
305723 2009 CT_{28}	17.3	X	307.09850	97.59988	108.91686	2.47260	0.1234593	0.26009923	2.4305805	20	1 1.9	20.6
305724 2009 CX_{28}	17.7	X	54.34722	315.36145	103.82208	3.00156	0.1136204	0.25607800	2.4559595	20	—	—
305725 2009 CD_{33}	18.0	X	38.07390	4.33676	70.32468	2.18913	0.1673244	0.25542451	2.4601467	20	—	—
305726 2009 CK_{33}	16.9	X	242.81180	61.45397	130.52021	3.93021	0.0484174	0.24073257	2.5592506	20	—	—
305727 2009 CF_{37}	16.8	X	197.65640	125.29824	85.81899	5.51679	0.1776870	0.23605211	2.5929698	20	12 10.0	20.6
305728 2009 CD_{38}	17.8	X	49.74196	101.71136	29.14860	0.84632	0.1664216	0.27090948	2.3654835	20	3 9.6	19.8
305729 2009 CM_{38}	17.1	X	338.97032	348.30753	132.03718	15.12158	0.0566538	0.25305857	2.4754568	20	—	—
305730 2009 CW_{38}	17.2	X	54.73204	190.70652	282.37020	1.57978	0.1542278	0.26826467	2.3810055	20	2 19.3	19.4
305731 2009 CM_{39}	17.1	X	111.63273	65.54313	334.65920	7.49513	0.1051024	0.26958493	2.3732253	20	2 2.7	19.9
305732 2009 CM_{42}	16.8	X	240.16660	200.26483	336.46955	6.80251	0.1333724	0.23583353	2.5945717	20	12 21.9	20.2
305733 2009 CU_{44}	17.0	X	85.25967	112.04921	166.26546	1.90050	0.0336422	0.22592547	2.6698852	20	11 5.3	20.7
305734 2009 CY_{44}	17.0	X	50.28750	299.55859	156.14709	8.73648	0.1271669	0.26379357	2.4078342	20	1 14.1	19.4
305735 2009 CG_{46}	17.1	X	186.82844	149.69576	130.80022	7.62647	0.0908436	0.25462126	2.4653180	20	—	—
305736 2009 CJ_{47}	17.5	X	136.62110	28.91918	28.26328	4.34354	0.1301846	0.27436082	2.3456038	20	3 29.9	20.8
305737 2009 CM_{47}	16.5	X	76.87201	148.41698	124.90652	6.12248	0.1324143	0.21753580	2.7380974	20	11 1.4	20.5
305738 2009 CC_{48}	16.6	X	336.00181	195.94446	137.24285	5.20631	0.0711978	0.21083676	2.7957939	20	8 17.5	20.0
305739 2009 CH_{55}	17.7	X	89.16926	328.51925	120.99613	2.83581	0.1893992	0.27401827	2.3475582	20	3 22.9	20.3
305740 2009 CC_{57}	16.4	X	21.92155	195.86162	152.06393	5.24474	0.0587697	0.22409082	2.6844378	20	11 17.6	19.9
305741 2009 CP_{57}	16.4	X	267.20897	274.46123	240.85132	3.93018	0.0479202	0.24045815	2.5611974	20	—	—
305742 2009 CD_{59}	16.4	X	189.11417	17.93345	179.66063	14.03530	0.1839094	0.22376301	2.6870589	20	11 15.5	20.9
305743 2009 CC_{62}	16.1	X	177.66489	99.75989	66.10264	13.49590	0.0714727	0.20929554	2.8095023	20	10 5.9	20.5
305744 2009 CE_{62}	16.7	X	231.69996	99.94491	109.18353	3.47118	0.0697721	0.23459819	2.6036720	20	—	—
305745 2009 CC_{64}	16.7	X	15.26684	261.16116	265.70941	5.64083	0.0811335	0.26727883	2.3868567	20	2 20.6	19.4
305746 2009 CT_{65}	17.8	X	56.12387	283.26436	138.95763	1.87108	0.1677572	0.26093692	2.4253757	20	—	—
305747 2009 DF_{2}	16.8	X	96.94453	293.96286	340.98362	2.58544	0.0658994	0.22728009	2.6592660	20	11 17.1	20.5
305748 2009 DS_{3}	17.0	X	356.91476	23.59406	128.04967	4.48558	0.1385425	0.26072392	2.4266965	20	—	—
305749 2009 DF_{5}	15.9	X	94.52413	339.18377	337.29410	10.37175	0.0617978	0.23609321	2.5926688	20	—	—
305750 2009 DX_{6}	17.4	X	21.57083	177.37630	332.55546	1.89203	0.1583066	0.26593592	2.3948853	20	2 7.8	19.4
305751 2009 DR_{7}	16.0	X	305.78786	268.89067	351.39466	10.93116	0.1365876	0.17942335	3.1132696	20	3 17.2	20.2
305752 2009 DX_{7}	16.9	X	148.29338	298.25015	280.22335	1.49749	0.0793680	0.22230883	2.6987640	20	11 2.8	20.9
305753 2009 DT_{8}	17.2	X	129.45217	148.14848	274.61724	3.08994	0.2077431	0.27478653	2.3431805	20	4 4.3	20.6
305754 2009 DS_{11}	16.5	X	35.26407	309.95263	285.69359	5.07940	0.1830668	0.19576377	2.9375223	20	7 20.5	19.7
305755 2009 DX_{11}	17.3	X	324.27664	191.85054	355.91579	2.32714	0.1503970	0.26064820	2.4271665	20	—	—
305756 2009 DW_{12}	17.8	X	141.60125	123.94903	323.47122	4.25780	0.2114557	0.28295253	2.2978782	20	5 18.8	21.5
305757 2009 DR_{15}	18.0	X	100.72877	338.37748	120.94344	3.00442	0.1712762	0.27818436	2.3240613	20	4 18.6	20.9
305758 2009 DW_{15}	17.4	X	347.15828	8.61322	158.59888	1.27935	0.1488646	0.26184823	2.4197451	20	—	—
305759 2009 DC_{16}	17.3	X	63.96145	357.64756	82.31437	3.90929	0.1508496	0.26427923	2.4048834	20	1 20.5	19.6
305760 2009 DD_{17}	15.9	X	126.51730	87.72866	172.19450	22.02982	0.0230892	0.22715783	2.6602201	20	12 3.4	20.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
305761 2009 DR_{24}	16.7	X	152.51673	237.98722	7.17851	8.64608	0.0902345	0.22842992	2.6503347	20	12 10.1	20.8
305762 2009 DU_{24}	16.1	X	338.03065	225.16328	87.63837	3.51492	0.0621048	0.20281677	2.8690193	20	7 23.2	19.6
305763 2009 DW_{30}	17.0	X	50.67108	303.30083	349.71397	4.98311	0.0445930	0.22047137	2.7137380	20	10 9.9	20.5
305764 2009 DE_{31}	16.5	X	8.93939	301.53911	192.41376	4.18521	0.1366721	0.26063103	2.4272731	20	—	—
305765 2009 DS_{32}	16.8	X	130.38988	340.07556	170.03228	15.45877	0.0833975	0.20058393	2.8902714	20	7 16.7	21.4
305766 2009 DT_{32}	17.5	X	44.91590	72.18697	43.77260	2.61022	0.1306484	0.26193810	2.4191916	20	2 5.6	19.7
305767 2009 DG_{33}	16.7	X	299.30185	289.91240	151.30539	6.26889	0.0440530	0.22524339	2.6752724	20	11 21.4	20.1
305768 2009 DU_{37}	17.3	X	92.70624	134.20825	149.78439	2.43783	0.0615593	0.22767528	2.6561879	20	11 24.6	21.1
305769 2009 DH_{40}	15.3	X	35.83959	347.70654	156.53957	17.15601	0.0575364	0.18162104	3.0881042	20	3 8.7	19.3
305770 2009 DZ_{40}	16.7	X	130.67564	152.65576	157.82049	4.93192	0.0269743	0.24437352	2.5337666	20	—	—
305771 2009 DS_{41}	17.3	X	8.11055	209.14361	273.12927	0.52240	0.1391350	0.25816805	2.4426864	20	—	—
305772 2009 DF_{42}	16.2	X	268.45415	297.11812	172.23478	13.20358	0.2231870	0.23127540	2.6285511	20	10 21.7	19.4
305773 2009 DQ_{42}	17.7	X	91.09031	190.50821	279.40814	1.46208	0.1290953	0.27687773	2.3313673	20	4 11.1	20.3
305774 2009 DY_{45}	17.3	X	224.82932	344.47419	207.22933	1.07601	0.1593453	0.23624633	2.5915485	20	12 17.6	20.6
305775 2009 DC_{46}	16.4	X	127.56126	295.76805	119.10699	7.27513	0.0774527	0.27303832	2.3531719	20	3 11.2	19.5
305776 2009 DE_{46}	17.0	X	65.34094	321.62017	147.00232	6.03812	0.0610248	0.26693422	2.3889105	20	2 21.8	19.4
305777 2009 DO_{47}	17.2	X	97.73683	96.88026	343.62299	9.44773	0.2132625	0.27288869	2.3540320	20	3 22.6	20.0
305778 2009 DM_{49}	18.0	X	41.40707	107.00697	11.31522	1.66733	0.1469403	0.26203438	2.4185990	20	2 2.5	19.9
305779 2009 DV_{49}	16.8	X	207.81718	86.45752	13.89852	4.90162	0.1279691	0.20956317	2.8071099	20	8 7.5	21.2
305780 2009 DW_{49}	17.6	X	93.72359	305.65025	148.09657	3.44717	0.1294126	0.26867560	2.3785771	20	3 25.8	20.3
305781 2009 DE_{50}	18.2	X	71.67436	307.97172	198.16660	1.61298	0.1711661	0.27545456	2.3393906	20	5 12.9	20.6
305782 2009 DS_{51}	17.3	X	315.33302	358.01398	170.45891	2.55777	0.1403071	0.25663542	2.4524020	20	—	—
305783 2009 DZ_{52}	15.8	X	288.51327	243.60811	0.77045	5.24292	0.1574554	0.17502038	3.1652667	20	2 6.0	20.4
305784 2009 DL_{53}	17.0	X	212.71912	54.17377	117.63803	4.40833	0.0357452	0.23070071	2.6329145	20	11 24.5	20.6
305785 2009 DK_{56}	17.3	X	80.08165	267.05577	140.18362	5.84260	0.1120929	0.25620544	2.4551451	20	—	—
305786 2009 DX_{62}	17.2	X	142.86999	278.51227	26.80113	6.40150	0.0655325	0.24126082	2.5555135	20	—	—
305787 2009 DU_{64}	16.6	X	9.87687	330.40498	358.01884	4.81855	0.0556944	0.21359725	2.7716536	20	10 1.2	20.0
305788 2009 DF_{70}	17.9	X	20.12865	292.99332	192.72338	1.59002	0.1417414	0.26144384	2.4222396	20	1 1.1	20.3
305789 2009 DK_{71}	17.5	X	25.18128	112.52216	44.34925	1.92837	0.1258196	0.26902904	2.3764934	20	2 26.8	19.6
305790 2009 DG_{75}	17.6	X	34.39735	136.58883	4.40965	3.42283	0.1546229	0.26618341	2.3934006	20	2 22.5	19.4
305791 2009 DH_{75}	16.4	X	178.25482	194.63071	356.40862	12.07426	0.1420488	0.22246614	2.6974916	20	10 24.5	20.8
305792 2009 DV_{75}	17.9	X	108.61479	322.81835	129.55927	2.79997	0.0441927	0.27723787	2.3293478	20	3 30.5	20.8
305793 2009 DA_{76}	16.6	X	51.91019	314.54856	338.63067	3.81889	0.1075696	0.22275962	2.6951219	20	10 21.4	20.2
305794 2009 DW_{81}	16.3	X	337.48541	178.75078	91.87780	3.02681	0.0962451	0.18936616	3.0033168	20	5 22.8	19.9
305795 2009 DK_{82}	16.1	X	52.59013	255.84801	125.62343	4.62192	0.1532698	0.23813081	2.5778580	20	—	—
305796 2009 DP_{84}	16.2	X	313.94416	218.92418	96.78525	3.39453	0.0752220	0.19761217	2.9191758	20	6 18.1	20.0
305797 2009 DU_{84}	16.2	X	303.82041	221.49313	77.52135	5.51828	0.1758154	0.18766858	3.0214008	20	4 28.8	20.2
305798 2009 DB_{86}	16.7	X	29.99089	44.84203	316.12625	3.84900	0.0844806	0.22964896	2.6409472	20	12 18.6	20.1
305799 2009 DR_{88}	16.3	X	50.50526	137.96380	80.60990	4.07771	0.0526037	0.19861873	2.9093050	20	7 2.6	20.0
305800 2009 DW_{89}	16.7	X	94.03144	356.95180	313.05070	12.67431	0.0888700	0.23974007	2.5663091	20	—	—
305801 2009 DD_{90}	17.1	X	331.26512	251.26720	170.47451	10.18435	0.1076529	0.23531185	2.5984050	20	12 16.7	20.2
305802 2009 DH_{92}	17.3	X	283.14599	270.89778	221.57843	3.18583	0.0907507	0.23671263	2.5881440	20	—	—
305803 2009 DY_{92}	17.5	X	29.26290	285.15790	131.09818	6.85511	0.1330736	0.24364630	2.5388059	20	—	—
305804 2009 DC_{93}	16.8	X	263.65597	20.12184	149.12091	10.35408	0.1369870	0.23819242	2.5774134	20	—	—
305805 2009 DO_{95}	17.6	X	93.33888	348.07776	108.67180	4.44869	0.1800662	0.27594457	2.3366203	20	4 7.5	20.4
305806 2009 DU_{95}	16.7	X	104.11507	226.31646	88.80791	4.43753	0.0756202	0.23962929	2.5670999	20	—	—
305807 2009 DB_{97}	17.0	X	350.21390	44.38114	355.94483	12.41914	0.1609002	0.23422829	2.6064125	20	12 24.9	20.1
305808 2009 DE_{100}	17.6	X	86.11054	67.95226	74.44896	3.10469	0.1504816	0.27870180	2.3211838	20	5 25.3	20.3
305809 2009 DQ_{100}	16.2	X	89.83063	229.36692	46.23343	5.61395	0.1137265	0.21893936	2.7263827	20	11 13.6	20.3
305810 2009 DZ_{101}	15.9	X	64.65252	155.30280	102.60707	7.08533	0.0514351	0.21011394	2.8022022	20	9 16.7	19.8
305811 2009 DH_{105}	16.8	X	165.14719	202.65349	340.03161	2.86086	0.1278625	0.21688497	2.7435723	20	10 4.9	21.2
305812 2009 DK_{105}	16.5	X	198.34380	161.61560	332.49009	2.46525	0.0426423	0.21383451	2.7696030	20	9 14.4	20.4
305813 2009 DM_{105}	17.1	X	7.00757	143.58383	210.59161	1.62759	0.0880508	0.21945117	2.7221420	20	11 5.7	20.5
305814 2009 DS_{107}	17.2	X	43.00264	86.90600	27.52984	7.93353	0.1303353	0.26409952	2.4059742	20	2 1.4	19.6
305815 2009 DT_{109}	16.9	X	307.52747	322.06053	253.09211	2.95883	0.1780237	0.25976653	2.4326553	20	1 5.7	20.1
305816 2009 DN_{113}	17.9	X	58.94826	351.80365	133.45827	1.92609	0.1309210	0.26844732	2.3799253	20	3 15.1	20.1
305817 2009 DV_{119}	16.8	X	174.03758	332.79499	177.28855	4.65469	0.0536843	0.21348588	2.7726174	20	9 5.4	20.9
305818 2009 DZ_{120}	16.6	X	9.68579	156.53957	168.11898	4.22335	0.1018549	0.21327126	2.7744772	20	10 2.0	19.8
305819 2009 DM_{122}	17.6	X	47.68720	355.30017	86.63503	1.94578	0.1841864	0.25687447	2.4508802	20	—	—
305820 2009 DR_{124}	17.8	X	88.18851	257.28135	172.03787	4.70072	0.2131725	0.26492081	2.4009991	20	2 25.0	20.4
305821 2009 DZ_{124}	16.6	X	241.60124	87.64633	18.87398	2.02569	0.0353322	0.21806606	2.7336569	20	10 4.9	20.3
305822 2009 DN_{125}	18.1	X	99.12456	58.21369	35.41963	1.66680	0.1527572	0.27033260	2.3688475	20	4 4.9	20.9
305823 2009 DU_{126}	16.1	X	283.65216	69.50181	352.48036	8.83753	0.0938760	0.21899958	2.7258829	20	9 24.2	19.5
305824 2009 DA_{127}	17.1	X	80.99060	75.32869	205.25749	4.73868	0.0909875	0.21852943	2.7297912	20	11 8.4	20.9
305825 2009 DB_{127}	16.4	X	281.76271	196.69001	202.35871	3.94607	0.0755468	0.21223844	2.7834709	20	8 22.5	20.0
305826 2009 DG_{127}	17.5	X	122.23990	22.29968	89.12846	6.03519	0.1392106	0.28226680	2.3015983	20	5 26.5	20.6
305827 2009 DK_{128}	18.3	X	43.81853	160.16295	315.35562	0.71591	0.1417209	0.26273298	2.4143097	20	2 2.0	20.2
305828 2009 DM_{128}	16.2	X	59.12780	235.00192	104.41781	5.34025	0.1048724	0.22963435	2.6410593	20	12 29.9	19.8
305829 2009 DS_{128}	16.8	X	35.65908	263.05450	44.83438	5.27314	0.0572465	0.21391247	2.7689300	20	10 12.7	20.4
305830 2009 DW_{128}	16.0	X	310.73402	301.51818	5.95516	8.51361	0.1203775	0.19091838	2.9870160	20	5 24.6	19.9
305831 2009 DN_{129}	16.4	X	140.87270	334.92788	228.89599	2.30845	0.0320426	0.21520512	2.7578310	20	10 5.3	20.3
305832 2009 DD_{133}	17.5	X	47.51362	179.98558	305.34833	1.82962	0.1361782	0.26638329	2.3922032	20	2 22.4	19.5
305833 2009 DN_{133}	16.8	X	62.66586	92.02471	166.06457	4.01258	0.0528604	0.20906965	2.8115256	20	9 10.9	20.5
305834 2009 DK_{136}	15.0	X	103.19952	28.59233	124.05233	17.84408	0.0358987	0.18297237	3.0728807	20	6 15.4	19.6
305835 2009 DE_{137}	16.8	X	64.20265	185.18002	294.05826	5.26328	0.1089750	0.26988425	2.3714703	20	3 8.5	19.4
305836 2009 DJ_{137}	17.6	X	295.76520	112.76240	15.11789	4.95979	0.0975931	0.23674957	2.5878747	20	—	—
305837 2009 DV_{137}	17.4	X	100.03823	268.17465	173.15890	1.23616	0.1593674	0.26946229	2.3739454	20	3 21.1	20.4
305838 2009 DM_{138}	16.4	X	293.50301	100.34570	185.24578	0.75080	0.1488487	0.18207052	3.0830196	20	3 31.6	20.8
305839 2009 DN_{138}	17.9	X	86.80466	252.09475	209.42911	2.55779	0.1927337	0.27124262	2.3635462	20	4 4.4	20.5
305840 2009 DT_{138}	16.6	X	305.06085	230.69419	109.75865	2.97251	0.0284066	0.19914176	2.9042087	20	7 14.2	20.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
305841 2009 DJ_{139}	15.4	X	217.14371	350.48987	18.07836	28.12413	0.1243887	0.18226978	3.0807723	20	4 17.5	20.4
305842 2009 DY_{142}	15.7	X	303.28724	28.48558	196.10143	13.69224	0.0523061	0.17103620	3.2142330	20	2 9.6	20.5
305843 2009 EB	16.1	X	139.16715	29.18869	172.03806	13.96418	0.1266679	0.21359614	2.7716631	20	10 4.9	20.5
305844 2009 EQ_{1}	16.5	X	92.97479	257.19705	143.06281	9.69102	0.1588477	0.25485008	2.4638420	20	1 16.1	19.3
305845 2009 EK_{3}	17.7	X	92.61566	329.81956	167.27825	2.17105	0.1578121	0.27903274	2.3193481	20	5 28.1	20.6
305846 2009 EW_{3}	16.8	X	161.84552	94.74472	80.94812	4.41931	0.1284208	0.21679736	2.7443114	20	9 26.4	21.2
305847 2009 EJ_{4}	17.6	X	105.17466	15.58682	106.56084	2.87273	0.1763623	0.27987466	2.3146944	20	5 25.6	20.6
305848 2009 EM_{4}	17.4	X	40.93133	77.52311	82.72854	3.08250	0.1476657	0.27078500	2.3662083	20	4 5.9	19.4
305849 2009 EW_{4}	15.9	X	357.69210	157.73467	143.06595	6.75166	0.0568257	0.20373792	2.8603651	20	8 5.4	19.5
305850 2009 EO_{5}	16.6	X	242.41523	65.23634	82.28427	5.08447	0.0540645	0.23309728	2.6148367	20	11 28.5	19.8
305851 2009 EB_{6}	17.5	X	98.28796	52.16765	47.75017	1.96187	0.1435949	0.27317303	2.3523982	20	4 11.1	20.2
305852 2009 EE_{7}	16.5	X	51.23291	316.87049	3.24798	13.34408	0.1399162	0.22794448	2.6540962	20	11 27.5	20.4
305853 2009 EV_{9}	17.4	X	149.27712	218.18322	199.46728	2.71190	0.1443293	0.27871245	2.3211247	20	4 13.7	20.6
305854 2009 EM_{10}	16.5	X	133.32658	196.85730	24.23194	3.61480	0.1349118	0.21715414	2.7413047	20	10 22.4	20.8
305855 2009 EB_{11}	16.9	X	93.37187	196.91752	159.10770	3.47495	0.0682755	0.24312001	2.5424685	20	—	—
305856 2009 ED_{13}	15.9	X	11.75339	359.39293	308.89125	3.60893	0.0639443	0.21205196	2.7851025	20	9 6.7	19.5
305857 2009 EA_{16}	17.6	X	8.80041	62.36149	45.51317	1.93368	0.1434119	0.25437091	2.4669353	20	—	—
305858 2009 EY_{16}	17.2	X	253.14255	356.88160	180.04369	11.60701	0.0546533	0.23927558	2.5696292	20	—	—
305859 2009 EG_{18}	17.2	X	66.34795	42.43030	220.83215	2.51916	0.0480679	0.21380517	2.7698563	20	9 21.5	20.9
305860 2009 EB_{20}	16.5	X	13.61676	62.62325	56.71789	6.91525	0.0911260	0.25718615	2.4488997	20	—	—
305861 2009 EL_{24}	16.3	X	70.57722	205.97079	46.67692	5.07997	0.0209095	0.21207155	2.7849310	20	9 12.3	20.1
305862 2009 EV_{24}	16.8	X	338.61608	274.94903	76.49946	0.55199	0.0843170	0.21357906	2.7718109	20	9 16.5	20.1
305863 2009 EO_{25}	16.5	X	349.88966	0.89583	13.49662	5.75970	0.0284200	0.22253238	2.6969563	20	11 1.3	20.0
305864 2009 ER_{25}	16.8	X	222.30450	133.32888	25.06982	12.01192	0.1322741	0.22443677	2.6816785	20	11 2.2	20.7
305865 2009 EW_{25}	16.1	X	177.75529	211.49418	27.88159	9.99790	0.0771485	0.22932738	2.6434155	20	—	—
305866 2009 EZ_{28}	16.7	X	226.30116	127.98610	16.72452	9.01005	0.0520520	0.22419658	2.6835935	20	10 31.4	20.4
305867 2009 EC_{29}	16.8	X	147.62723	196.51105	59.86601	3.29870	0.0809294	0.22918003	2.6445485	20	12 20.2	20.6
305868 2009 EE_{29}	17.0	X	324.14871	155.62983	41.33140	5.18017	0.0683057	0.26065293	2.4271371	20	1 21.5	20.1
305869 2009 EO_{30}	16.6	X	170.84346	41.79456	184.44184	3.58791	0.0750100	0.22541659	2.6739018	20	12 7.9	20.4
305870 2009 EQ_{30}	16.3	X	172.68094	11.77406	173.28827	8.92907	0.0777397	0.21586644	2.7521956	20	10 19.9	20.4
305871 2009 FF_{1}	16.6	X	254.12607	180.24625	159.54819	2.03963	0.0571209	0.18894151	3.0078150	20	5 3.6	20.8
305872 2009 FO_{2}	17.2	X	14.97461	10.63865	107.47312	2.40331	0.1279512	0.25554174	2.4593942	20	—	—
305873 2009 FP_{2}	16.2	X	58.31006	125.00595	161.20411	8.52180	0.0139961	0.21589939	2.7519156	20	10 9.2	19.9
305874 2009 FW_{2}	16.5	X	2.41668	321.25041	86.06455	6.08330	0.0184442	0.22968678	2.6406573	20	—	—
305875 2009 FN_{3}	17.3	X	51.95834	78.21519	357.24047	2.77725	0.1620506	0.25696237	2.4503212	20	—	—
305876 2009 FB_{9}	16.8	X	235.02528	355.61090	178.79105	13.12422	0.1179287	0.23454470	2.6040679	20	12 14.6	20.5
305877 2009 FK_{9}	17.3	X	86.55375	61.62498	5.01401	2.57751	0.1559972	0.26328532	2.4109320	20	2 11.1	19.8
305878 2009 FN_{10}	17.8	X	71.64634	268.65311	206.03985	0.63124	0.1393140	0.26975573	2.3722234	20	3 21.8	20.4
305879 2009 FA_{12}	18.0	X	70.17219	65.26780	6.01086	2.67629	0.2532573	0.26223264	2.4173797	20	2 5.1	19.9
305880 2009 FS_{15}	16.7	X	33.83788	318.91474	325.14479	3.55652	0.0379052	0.21162740	2.7888262	20	9 3.7	20.4
305881 2009 FX_{16}	16.8	X	349.47368	191.28861	147.54635	6.53498	0.0502021	0.21793029	2.7347921	20	9 17.4	20.3
305882 2009 FC_{17}	17.2	X	6.05407	232.63433	171.03282	6.26364	0.2747797	0.24344391	2.5402128	20	—	—
305883 2009 FJ_{17}	16.1	X	169.24256	184.63672	22.06781	14.03997	0.0420680	0.22354646	2.6887939	20	11 9.9	20.0
305884 2009 FM_{17}	15.7	X	323.96632	97.02401	172.97386	14.86874	0.1439088	0.18653129	3.0336694	20	4 27.6	19.6
305885 2009 FV_{17}	16.2	X	73.45637	272.52248	26.33732	7.13541	0.0446301	0.22216673	2.6999147	20	11 15.6	20.0
305886 2009 FQ_{18}	15.6	X	356.61864	278.48949	348.14522	10.91818	0.1184437	0.19237124	2.9719577	20	6 17.5	19.3
305887 2009 FK_{19}	16.9	X	46.50191	336.69958	111.48038	4.27646	0.1549387	0.25745374	2.4472025	20	—	—
305888 2009 FW_{19}	17.4	X	351.25132	321.75300	197.42356	0.85562	0.1300923	0.25894900	2.4377728	20	—	—
305889 2009 FA_{21}	15.9	X	334.25800	69.21230	13.62466	22.15492	0.0672554	0.23243846	2.6197754	20	—	—
305890 2009 FL_{21}	16.8	X	207.06034	161.04789	3.79937	1.82483	0.0303212	0.22515444	2.6759770	20	11 6.7	20.6
305891 2009 FW_{22}	16.6	X	218.18125	123.62559	52.41138	10.16937	0.1493146	0.22610071	2.6685054	20	11 19.2	20.3
305892 2009 FO_{24}	16.0	X	68.80583	115.45941	158.94761	13.57905	0.1620438	0.21140552	2.7907772	20	10 28.8	20.3
305893 2009 FR_{24}	16.0	X	264.05943	291.85584	127.81462	5.84835	0.0604821	0.21162186	2.7888749	20	8 30.4	19.6
305894 2009 FM_{26}	17.3	X	344.02268	293.09081	161.53679	8.06751	0.1565908	0.24370720	2.5383829	20	—	—
305895 2009 FH_{29}	16.8	X	327.66533	37.23345	61.75802	9.69198	0.1406150	0.24054587	2.5605746	20	—	—
305896 2009 FN_{29}	17.1	X	340.13561	86.56768	84.28197	3.75307	0.0310195	0.25718653	2.4488973	20	1 13.7	20.0
305897 2009 FB_{31}	16.3	X	163.68912	5.43996	199.26544	13.14255	0.1397089	0.22107572	2.7087900	20	11 1.6	20.6
305898 2009 FG_{31}	16.3	X	108.56841	50.67192	183.51642	8.63816	0.0903935	0.21294837	2.7772811	20	10 11.6	20.3
305899 2009 FO_{31}	15.5	X	77.55226	226.22308	328.13687	15.40525	0.1485214	0.19674977	2.9276999	20	7 24.9	19.7
305900 2009 FP_{34}	16.3	X	291.04485	254.06636	38.69418	9.48248	0.1361974	0.18122440	3.0926085	20	4 10.2	20.7
305901 2009 FQ_{34}	16.9	X	333.66485	252.97221	147.64312	6.73967	0.0497985	0.22198172	2.7014146	20	11 17.1	20.3
305902 2009 FS_{37}	16.5	X	161.38152	54.31656	124.13711	4.90491	0.0350910	0.21343420	2.7730650	20	9 30.2	20.4
305903 2009 FQ_{38}	17.2	X	34.92191	239.12174	232.80329	0.59387	0.1376755	0.25986983	2.4320107	20	1 10.5	19.5
305904 2009 FN_{39}	16.5	X	32.91879	184.38866	135.96819	6.95644	0.0743128	0.22115139	2.7081722	20	10 30.7	20.1
305905 2009 FS_{41}	16.6	X	319.49604	314.75698	71.39189	5.18712	0.1088654	0.21486482	2.7607421	20	10 4.7	19.8
305906 2009 FJ_{42}	16.7	X	81.99661	146.67501	98.47630	5.50575	0.0123010	0.20936143	2.8089128	20	9 16.0	20.6
305907 2009 FY_{44}	17.0	X	17.26332	205.79204	142.22865	6.80225	0.0351156	0.22080517	2.7110023	20	11 8.4	20.6
305908 2009 FQ_{45}	16.5	X	171.65427	13.13140	187.04245	13.87267	0.0936779	0.22127643	2.7071518	20	11 6.7	20.7
305909 2009 FB_{47}	16.4	X	296.95784	296.13171	197.08134	11.51729	0.0914655	0.23187663	2.6240054	20	—	—
305910 2009 FB_{50}	15.8	X	318.87685	234.08115	39.05135	17.97826	0.2311038	0.18152229	3.0892241	20	4 12.1	19.6
305911 2009 FU_{52}	17.5	X	23.16207	19.71024	104.91316	5.32869	0.1256592	0.26144015	2.4222625	20	1 6.6	19.7
305912 2009 FH_{55}	17.0	X	129.85956	164.63448	80.17482	3.69975	0.0242046	0.22663554	2.6643056	20	11 16.2	20.8
305913 2009 FM_{57}	15.7	X	345.23539	19.12308	196.09535	17.25636	0.1420745	0.17607493	3.1526157	20	3 17.2	19.6
305914 2009 FQ_{57}	15.5	X	346.04812	177.61180	34.24702	12.40763	0.1083926	0.17454438	3.1710187	20	3 24.0	19.5
305915 2009 FB_{58}	17.0	X	87.24892	334.56538	329.98608	1.90676	0.0883526	0.22502697	2.6769874	20	12 15.1	21.0
305916 2009 FJ_{60}	16.3	X	286.79759	66.71911	357.88905	4.60336	0.0557785	0.21370494	2.7707224	20	10 6.6	19.9
305917 2009 FK_{61}	17.2	X	97.88346	170.09866	3.62833	1.56413	0.0156113	0.19716227	2.9236149	20	7 1.3	21.1
305918 2009 FU_{61}	16.5	X	11.23468	177.73866	170.69471	6.29939	0.0258435	0.21755728	2.7379172	20	10 29.3	20.1
305919 2009 FW_{61}	16.6	X	33.19560	182.55384	172.95892	6.66157	0.0550455	0.22449318	2.6812292	20	12 10.9	20.2
305920 2009 FJ_{62}	16.5	X	343.42450	82.74814	187.08081	9.88166	0.1292423	0.18971828	2.9995995	20	5 30.3	20.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
305921 2009 FP_{62}	16.1	X	304.52332	229.54046	28.07306	11.01109	0.0973654	0.17716825	3.1396323	20	3 22.2	20.4
305922 2009 FJ_{63}	15.9	X	312.62426	277.46474	26.49252	9.80646	0.0689892	0.18905576	3.0066031	20	5 29.9	20.0
305923 2009 FQ_{63}	16.6	X	262.74286	63.80056	97.00927	4.87736	0.0656252	0.23270969	2.6177393	20	—	—
305924 2009 FN_{64}	16.2	X	14.27385	49.06407	197.67205	10.69587	0.0667476	0.18981442	2.9985865	20	6 17.9	20.2
305925 2009 FD_{67}	16.5	X	218.50286	14.15181	110.24777	4.90075	0.0482963	0.21160884	2.7889893	20	9 28.5	20.4
305926 2009 FJ_{68}	16.5	X	252.66240	214.27283	87.61278	2.34968	0.1542352	0.17210615	3.2008977	20	3 7.9	21.5
305927 2009 FA_{70}	16.3	X	47.27979	16.23298	164.28835	5.13443	0.0663081	0.18064760	3.0991880	20	5 11.6	20.4
305928 2009 FH_{71}	16.0	X	3.11850	112.77564	116.90548	7.55460	0.2457453	0.18247210	3.0784947	20	5 11.6	18.9
305929 2009 FL_{71}	15.9	X	89.04903	56.32994	86.54142	11.28055	0.0602270	0.18001613	3.1064314	20	5 19.3	20.3
305930 2009 FO_{72}	16.2	X	176.73881	165.65184	63.58628	12.69024	0.1385773	0.22721676	2.6597601	20	12 12.4	20.3
305931 2009 FE_{73}	16.6	X	264.68837	132.23023	19.28092	4.40493	0.1088549	0.23030685	2.6359155	20	12 26.0	19.9
305932 2009 FV_{73}	16.2	X	321.47048	351.70440	36.55162	6.79241	0.0260007	0.21298241	2.7769852	20	10 11.9	19.7
305933 2009 FK_{76}	15.6	X	322.90910	93.29986	222.32545	9.70123	0.0781269	0.18964090	3.0004153	20	6 29.8	19.6
305934 2009 FX_{76}	16.4	X	315.52316	28.66044	30.00756	6.18765	0.0290911	0.21879742	2.7275617	20	11 11.1	19.9
305935 2009 GT	16.1	X	226.49181	175.71841	32.06938	11.87136	0.1262594	0.23404964	2.6077386	20	—	—
305936 2009 GF_{3}	16.6	X	226.00568	139.22357	65.81809	6.15993	0.0913589	0.23365926	2.6106424	20	—	—
305937 2009 GK_{3}	16.4	X	269.01876	140.82807	29.26828	4.32791	0.0688736	0.23550002	2.5970207	20	—	—
305938 2009 GZ_{5}	16.5	X	217.25022	60.89762	33.98566	6.56661	0.0962496	0.20555730	2.8434621	20	8 14.3	20.8
305939 2009 HM	17.2	X	36.34635	279.14750	212.94459	4.96271	0.1722031	0.26342378	2.4100871	20	2 10.6	19.4
305940 2009 HT	15.6	X	263.00365	259.04214	31.29335	18.84491	0.1274240	0.17169551	3.2059993	20	3 14.9	20.6
305941 2009 HC_{2}	17.0	X	334.03412	69.22485	90.49892	3.45697	0.1001961	0.25007603	2.4951003	20	—	—
305942 2009 HE_{13}	16.7	X	205.43999	167.52735	38.65385	5.07912	0.0678513	0.22974270	2.6402288	20	12 23.4	20.4
305943 2009 HK_{13}	16.7	X	179.85110	133.12142	21.13961	4.67522	0.0102214	0.21420073	2.7664453	20	9 21.7	20.4
305944 2009 HA_{14}	16.0	X	264.66550	189.27111	201.04764	17.10802	0.0946777	0.19143191	2.9816717	20	7 11.8	20.5
305945 2009 HX_{16}	17.6	X	75.50672	327.23548	148.38958	3.14876	0.1422948	0.26813386	2.3817798	20	3 31.5	20.2
305946 2009 HJ_{17}	16.8	X	317.17944	102.13387	204.47425	9.06003	0.0904146	0.18898673	3.0073353	20	6 9.0	20.8
305947 2009 HH_{18}	16.2	X	192.82790	186.17575	191.33063	9.97513	0.0436276	0.17901705	3.1179785	20	4 11.4	20.7
305948 2009 HL_{18}	15.8	X	162.13521	90.53670	79.62910	10.50209	0.1010699	0.20943786	2.8082294	20	9 22.8	20.3
305949 2009 HT_{21}	15.5	X	327.76891	193.98872	30.43633	6.97739	0.1034442	0.17287674	3.1913787	20	3 11.5	19.7
305950 2009 HL_{24}	16.4	X	282.37792	213.76138	176.70577	12.07402	0.0432350	0.20040681	2.8919741	20	8 14.4	20.4
305951 2009 HG_{26}	15.5	X	239.14974	318.59848	33.89854	15.48154	0.0606601	0.18184416	3.0855776	20	4 29.9	20.1
305952 2009 HU_{30}	16.7	X	65.36964	161.43584	172.74639	5.92238	0.0544281	0.22584922	2.6704861	20	12 23.4	20.5
305953 Josiedubey	16.8	X	180.32522	111.64965	55.15439	12.79431	0.1509500	0.21565616	2.7539844	20	10 5.5	21.3
305954 2009 HQ_{39}	16.6	X	320.91293	19.65712	145.72232	2.85951	0.1485967	0.24474090	2.5312304	20	—	—
305955 2009 HY_{40}	16.8	X	180.13371	73.29988	113.73645	2.80434	0.0149114	0.21935381	2.7229474	20	11 3.7	20.5
305956 2009 HJ_{43}	16.2	X	240.31282	99.43630	55.73094	8.04437	0.0392665	0.22335244	2.6903508	20	12 4.4	19.8
305957 2009 HK_{43}	17.5	X	264.35656	25.18514	128.04826	3.16868	0.1049042	0.23031182	2.6358775	20	12 28.1	20.5
305958 2009 HE_{45}	15.8	X	332.54298	185.21256	62.89372	6.65223	0.1683178	0.17929583	3.1147456	20	4 9.5	19.6
305959 2009 HH_{45}	16.3	X	285.31772	119.54584	33.33387	8.34307	0.1203160	0.23723116	2.5843712	20	—	—
305960 2009 HT_{45}	15.5	X	284.86117	273.10963	30.28488	16.89706	0.1374748	0.17882529	3.1202071	20	4 14.9	19.8
305961 2009 HZ_{46}	15.4	X	228.41110	244.99607	107.62417	11.26407	0.0558356	0.17675818	3.1444862	20	4 24.8	20.2
305962 2009 HG_{50}	17.6	X	318.45356	315.03935	170.53046	4.92694	0.1089719	0.24044181	2.5613134	20	—	—
305963 2009 HS_{53}	15.6	X	257.06901	155.09330	151.36508	5.27388	0.0966874	0.17260774	3.1946936	20	3 23.7	20.2
305964 2009 HG_{55}	17.1	X	270.53328	286.44206	226.39317	5.73149	0.1195089	0.23199547	2.6231093	20	—	—
305965 2009 HJ_{57}	16.1	X	37.37103	24.78970	189.14185	11.32879	0.1267784	0.18790140	3.0189045	20	6 16.1	20.0
305966 2009 HR_{58}	16.4	X	236.35312	345.05794	118.31621	9.87870	0.0999168	0.21162770	2.7888236	20	9 17.8	20.5
305967 2009 HR_{60}	16.8	X	182.59614	167.82882	29.20882	5.52958	0.1022660	0.22157058	2.7047554	20	11 10.9	20.8
305968 2009 HF_{69}	15.6	X	221.47858	51.54314	42.28556	15.59311	0.1187943	0.20483631	2.8501306	20	8 20.3	20.2
305969 2009 HD_{70}	16.1	X	6.45104	53.07242	217.11376	11.84536	0.0417063	0.19111007	2.9850183	20	7 4.7	20.2
305970 2009 HN_{71}	16.4	X	158.24244	352.22419	102.90746	2.50984	0.1132486	0.18889741	3.0082832	20	6 9.9	21.2
305971 2009 HM_{75}	15.6	X	343.57400	199.02617	96.89986	10.57364	0.0430022	0.19086782	2.9875435	20	7 7.9	19.5
305972 2009 HG_{76}	16.6	X	354.24756	146.70810	94.24075	2.91430	0.0485415	0.18482698	3.0522901	20	5 11.8	20.5
305973 2009 HH_{80}	14.8	X	127.14152	210.92196	195.39986	32.28319	0.0542248	0.17066538	3.2188873	20	3 1.2	19.9
305974 2009 HS_{85}	16.9	X	253.94684	336.97800	188.56336	8.93678	0.1304789	0.23154173	2.6265351	20	12 25.3	20.3
305975 2009 HZ_{85}	16.5	X	85.86047	96.43177	63.46162	3.44363	0.0667493	0.19090253	2.9871813	20	6 4.7	20.6
305976 2009 HB_{89}	16.5	X	52.83152	346.56836	215.00084	1.61655	0.1236775	0.18451364	3.0557447	20	6 22.7	20.3
305977 2009 HK_{96}	16.4	X	185.85907	301.57172	123.30951	3.38988	0.0946486	0.18699006	3.0287054	20	5 31.6	21.0
305978 2009 HL_{99}	15.7	X	0.76007	41.69204	217.69045	9.06273	0.0389247	0.18800598	3.0177849	20	6 13.9	19.7
305979 2009 HJ_{100}	16.1	X	352.52838	85.66836	120.90637	2.98064	0.1427647	0.17374486	3.1807393	20	3 21.8	19.9
305980 2009 HV_{101}	15.2	X	225.69073	285.82667	65.08627	9.41226	0.0651973	0.17429587	3.1740322	20	4 17.2	20.0
305981 2009 HC_{103}	15.6	X	315.12511	148.47978	131.74507	11.63376	0.0509694	0.17843818	3.1247182	20	5 11.1	20.0
305982 2009 HM_{103}	16.9	X	300.06465	283.48829	197.61854	6.65831	0.1946399	0.23058587	2.6337886	20	—	—
305983 2009 HF_{104}	16.8	X	189.13976	94.19000	107.40097	4.49678	0.1142504	0.21934945	2.7229835	20	11 23.5	20.9
305984 2009 HN_{104}	16.8	X	293.37766	314.25542	184.17839	11.72513	0.1901818	0.23233839	2.6205276	20	—	—
305985 2009 HB_{105}	16.1	X	345.49088	242.94579	75.94815	10.47860	0.0698425	0.19431475	2.9521077	20	8 14.5	20.0
305986 2009 HF_{105}	16.2	X	353.89169	63.60722	232.48733	8.70532	0.0506762	0.19058541	2.9904941	20	7 20.7	20.2
305987 2009 JD_{3}	15.7	X	189.78518	271.50841	124.42468	10.98487	0.0212619	0.17690240	3.1427770	20	5 4.7	20.4
305988 2009 JN_{4}	15.8	X	242.94575	18.54719	133.81862	16.02040	0.1177713	0.22523009	2.6753778	20	11 28.2	19.7
305989 2009 JK_{6}	14.8	X	201.18470	237.25124	131.03612	9.79997	0.0888836	0.17098845	3.2148314	20	4 12.2	19.9
305990 2009 JR_{8}	16.9	X	103.78395	11.65761	96.37849	10.47306	0.1322841	0.26590369	2.3950788	20	5 2.4	20.2
305991 2009 JY_{8}	16.6	X	236.21512	321.92294	160.54787	9.71794	0.0996437	0.21279805	2.7785889	20	10 10.9	20.5
305992 2009 JN_{12}	16.4	X	295.59545	130.63840	41.38771	5.51776	0.1274358	0.24106556	2.5568933	20	—	—
305993 2009 KJ_{3}	16.4	X	251.49930	323.92712	228.12868	12.00044	0.1915316	0.23270115	2.6178034	20	—	—
305994 2009 KG_{7}	16.1	X	220.40790	95.42238	66.69680	12.45645	0.1606742	0.21954618	2.7213566	20	11 5.1	20.2
305995 2009 KP_{12}	15.5	X	262.94168	274.43427	68.84470	10.75377	0.0758319	0.17991644	3.1075788	20	5 16.8	19.9
305996 2009 KB_{14}	15.5	X	247.42169	290.96244	64.88251	10.22589	0.1202364	0.17827544	3.1266195	20	5 9.5	20.3
305997 2009 KX_{15}	16.2	X	325.77177	144.58370	101.22014	7.48002	0.1481904	0.17322900	3.1870507	20	3 31.1	20.3
305998 2009 KH_{17}	15.8	X	316.11168	167.69651	87.67698	9.86642	0.0285066	0.17316771	3.1878028	20	4 14.5	20.3
305999 2009 SH_{362}	16.8	X	193.87572	244.38500	17.18845	7.82994	0.0929841	0.29613796	2.2291536	20	—	—
306000 2009 TS_{21}	13.0	X	280.69111	24.32157	35.86880	9.55399	0.0499245	0.08368071	5.1766940	20	9 10.0	19.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
306001 2009 TD_{42}	13.0	X	311.80615	294.85939	111.18401	10.12348	0.1544997	0.08209374	5.2431950	20	9 20.5	19.5
306002 2009 VO_{72}	16.2	X	118.55752	285.39457	76.87546	9.95100	0.1819873	0.21180023	2.7873089	20	1 13.5	20.2
306003 2009 WM_{32}	13.3	X	16.81523	235.28286	108.57854	7.67180	0.0904836	0.08267208	5.2187137	20	10 13.6	19.9
306004 2010 CZ_{9}	16.2	X	165.80878	161.40048	51.00992	8.41995	0.1062244	0.23739562	2.5831775	20	11 15.6	20.2
306005 2010 CN_{10}	15.6	X	333.44424	292.08509	317.54166	13.07102	0.2248421	0.19219337	2.9737910	20	3 25.0	19.2
306006 2010 CE_{31}	17.4	X	338.63353	264.49461	358.84067	5.26926	0.1262061	0.30480041	2.1867158	20	5 4.8	19.2
306007 2010 CP_{93}	17.5	X	238.14669	151.06934	125.02452	3.98660	0.2080295	0.27866296	2.3213995	20	1 9.5	21.4
306008 2010 CO_{116}	16.9	X	224.61242	136.40867	124.28220	5.17573	0.2133442	0.26897072	2.3768369	20	—	—
306009 2010 CJ_{127}	18.0	X	34.77553	53.29238	191.71041	4.32484	0.1424138	0.31340983	2.1464839	20	8 7.4	20.0
306010 2010 CY_{136}	15.4	X	9.69362	204.60389	121.22124	36.22849	0.1708276	0.21978633	2.7193740	20	10 30.9	19.5
306011 2010 CV_{158}	17.5	X	231.59530	128.92978	144.47241	5.09259	0.2205324	0.27490843	2.3424879	20	1 1.1	21.6
306012 2010 CP_{168}	17.5	X	227.65563	85.64212	183.22309	6.83517	0.0984186	0.27537587	2.3398363	20	—	—
306013 2010 CZ_{179}	17.2	X	326.91252	82.01106	5.37276	19.62287	0.1071297	0.35977181	1.9578735	20	—	—
306014 2010 DC_{12}	16.0	X	145.15633	80.61019	180.01290	14.65105	0.1718614	0.23987350	2.5653573	20	12 22.6	20.5
306015 2010 DL_{18}	17.3	X	215.91116	258.31529	73.89532	7.92459	0.1340056	0.27716243	2.3297705	20	3 5.0	20.9
306016 2010 DO_{23}	16.8	X	78.49336	53.27011	204.98524	7.89635	0.2708786	0.22045041	2.7139100	20	10 28.4	21.0
306017 2010 DY_{23}	16.7	X	112.57102	253.56135	137.44299	13.92800	0.1950615	0.26648430	2.3915987	20	2 4.4	19.6
306018 2010 DE_{25}	16.4	X	135.94406	81.57901	188.10165	8.60921	0.1435883	0.23917873	2.5703229	20	12 25.4	20.7
306019 Duren	16.2	X	232.64553	104.92562	205.98394	5.36802	0.4353011	0.17031306	3.2233248	20	2 14.2	22.4
306020 2010 DC_{34}	16.9	X	123.79942	297.43801	85.50321	23.34720	0.1167744	0.37790571	1.8947289	20	1 4.5	18.5
306021 2010 DT_{48}	17.1	X	268.24548	158.91631	81.13248	3.82764	0.1714812	0.26899692	2.3766826	20	—	—
306022 2010 DU_{67}	15.7	X	116.97433	92.33341	205.29737	26.47318	0.1659046	0.23775242	2.5805924	20	—	—
306023 2010 DF_{70}	17.0	X	51.55993	125.85432	202.67075	18.42621	0.1673933	0.22728598	2.6592201	20	12 14.7	21.1
306024 2010 DF_{79}	16.9	X	101.95611	249.49789	354.26633	12.04168	0.2296477	0.23130129	2.6283549	20	10 24.3	21.4
306025 2010 EV_{37}	17.3	X	222.80834	192.23204	84.77151	2.34843	0.1722936	0.26969576	2.3725751	20	—	—
306026 2010 EY_{70}	17.9	X	322.84413	21.48151	196.00668	1.86629	0.1121541	0.28573166	2.2829539	20	2 3.3	20.4
306027 2010 EX_{78}	17.5	X	156.98615	282.20272	35.18468	4.51160	0.2055496	0.26835193	2.3804893	20	—	—
306028 2010 ER_{80}	17.7	X	288.23465	151.94146	163.32142	6.75583	0.1790885	0.30393197	2.1908793	20	4 23.1	20.2
306029 2010 EL_{83}	16.9	X	104.21398	283.85393	26.91117	12.78472	0.2598663	0.24232201	2.5480472	20	—	—
306030 2010 ET_{107}	17.4	X	208.05451	306.70944	344.80259	3.10151	0.2406680	0.26726943	2.3869127	20	1 6.1	21.5
306031 2010 ET_{122}	17.1	X	298.50059	229.86875	357.57479	8.65982	0.1983127	0.27929511	2.3178954	20	1 7.1	20.5
306032 2010 EH_{123}	16.9	X	103.56996	114.24365	168.88198	11.24677	0.1805322	0.23794513	2.5791989	20	12 14.7	21.3
306033 2010 EV_{125}	16.8	X	259.04413	200.25833	83.76912	11.79198	0.2086481	0.28505624	2.2865586	20	2 8.4	20.5
306034 2010 EF_{126}	17.8	X	340.15780	168.10034	63.57042	5.10789	0.1381170	0.29438422	2.2379980	20	3 22.0	19.8
306035 2010 EQ_{126}	16.5	X	213.76642	238.21771	43.98562	8.72467	0.1127472	0.26941212	2.3742400	20	—	—
306036 2010 EJ_{130}	17.2	X	215.59457	302.68126	32.46194	5.80239	0.2361081	0.28276834	2.2988759	20	3 4.5	21.1
306037 2010 EV_{133}	18.0	X	290.58937	287.57756	25.52821	7.59168	0.0941140	0.30124997	2.2038636	20	5 4.2	20.4
306038 2010 ES_{136}	17.9	X	247.60709	36.55678	185.67043	4.92664	0.1512092	0.26748975	2.3856018	20	—	—
306039 2010 EU_{137}	17.4	X	219.70364	334.97395	300.45115	1.77331	0.2183590	0.26739790	2.3861481	20	—	—
306040 2010 EF_{139}	17.1	X	204.92626	191.09796	25.23643	20.43151	0.0535124	0.35160572	1.9880719	20	—	—
306041 2010 EB_{140}	17.1	X	148.07431	104.89158	194.31626	5.46548	0.1269995	0.25870226	2.4393226	20	—	—
306042 2010 EQ_{140}	17.4	X	11.32496	64.52938	32.62492	20.76415	0.1311137	0.36941377	1.9236557	20	—	—
306043 2010 EM_{142}	17.9	X	270.11252	266.92667	17.71320	1.50962	0.1961374	0.28832659	2.2692356	20	2 17.8	21.2
306044 2010 EQ_{163}	15.9	X	267.18210	97.88163	248.36745	10.49584	0.1419860	0.19340381	2.9613702	20	5 14.8	20.2
306045 2010 FV_{4}	17.6	X	277.46891	114.90393	151.22805	4.78232	0.1156690	0.28700705	2.2761856	20	2 9.7	20.7
306046 2010 FW_{5}	17.7	X	202.83125	76.81664	180.11427	2.26028	0.1978019	0.25955194	2.4339960	20	—	—
306047 2010 FV_{82}	17.6	X	229.56243	129.98638	132.27161	1.90194	0.1608690	0.26865171	2.3787181	20	—	—
306048 2010 FQ_{87}	17.9	X	10.46297	25.25094	192.52002	5.33645	0.0885084	0.29838012	2.2179724	20	4 30.1	19.9
306049 2010 FW_{90}	17.9	X	330.58207	73.53990	169.17953	6.20793	0.1482701	0.28976227	2.2617338	20	3 17.8	20.0
306050 2010 FA_{91}	17.1	X	269.30029	138.63550	116.99405	3.52603	0.1775155	0.27527318	2.3404181	20	1 14.1	20.5
306051 2010 FR_{91}	17.3	X	355.11385	45.63903	223.40268	7.07702	0.1264407	0.30309549	2.1949084	20	6 22.6	19.0
306052 2010 GO_{25}	17.3	X	296.30416	122.86547	42.12414	22.14000	0.0644439	0.36141302	1.9519417	20	—	—
306053 2010 GE_{26}	17.2	X	167.65988	279.98910	36.55189	5.07915	0.1625313	0.26626506	2.3929113	20	—	—
306054 2010 GD_{27}	16.8	X	196.88435	180.58242	119.15946	7.06885	0.1181214	0.26749660	2.3855611	20	1 2.5	20.2
306055 2010 GJ_{28}	17.2	X	58.28157	205.18417	67.77498	17.70516	0.2394823	0.21921284	2.7241147	20	10 28.9	21.4
306056 2010 GY_{28}	16.6	X	102.92744	202.27507	93.94683	8.99757	0.2360745	0.24055626	2.5605009	20	12 31.4	20.9
306057 2010 GF_{31}	17.3	X	296.37385	169.64075	110.87559	2.28420	0.1716271	0.29171472	2.2516307	20	3 16.6	20.0
306058 2010 GV_{31}	17.4	X	329.02321	29.93514	213.24236	3.88522	0.1596074	0.29107794	2.2549133	20	3 11.6	19.8
306059 2010 GY_{33}	18.7	X	51.66991	112.91826	37.13965	18.63197	0.0414216	0.39259229	1.8471757	20	3 24.5	20.4
306060 2010 GB_{65}	16.9	X	315.50834	232.95628	349.89112	8.89288	0.1527500	0.28311946	2.2969748	20	1 28.6	19.8
306061 2010 GC_{66}	16.5	X	28.65275	28.02639	230.77839	7.76254	0.2512580	0.21158818	2.7891708	20	8 20.2	19.7
306062 2010 GL_{66}	16.8	X	203.07488	193.09696	61.18933	3.34142	0.1581298	0.25838162	2.4413402	20	—	—
306063 2010 GG_{67}	17.6	X	158.26910	239.65861	39.26123	22.26349	0.0284844	0.35571824	1.9727193	20	—	—
306064 2010 GQ_{95}	15.8	X	274.11640	60.90603	283.13244	7.66818	0.1214578	0.18705156	3.0280415	20	5 22.9	20.1
306065 2010 GZ_{96}	16.2	X	47.59325	85.04863	217.15535	12.71623	0.2303520	0.22306821	2.6926357	20	11 16.3	20.0
306066 2010 GG_{98}	17.6	X	195.38436	58.39655	215.40037	0.61591	0.1718033	0.26045565	2.4283626	20	—	—
306067 2010 GW_{99}	16.7	X	217.23816	188.07755	75.51683	7.08310	0.1054015	0.26447838	2.4036760	20	—	—
306068 2010 GF_{104}	17.2	X	213.95103	154.76529	95.44704	2.32768	0.1554567	0.26111549	2.4242698	20	—	—
306069 2010 GQ_{105}	17.0	X	162.73782	136.17137	177.30645	6.29501	0.1322772	0.26081381	2.4261389	20	—	—
306070 2010 GK_{106}	17.2	X	282.02164	58.04208	190.46468	10.74713	0.0995217	0.27948788	2.3168295	20	1 23.7	20.5
306071 2010 GH_{107}	17.7	X	149.45949	234.94886	21.67433	5.64248	0.1891910	0.24450250	2.5328755	20	12 21.9	21.9
306072 2010 GV_{107}	17.9	X	265.13047	19.20240	257.98885	1.40409	0.1968514	0.28007737	2.3135774	20	2 3.4	21.3
306073 2010 GR_{109}	17.4	X	209.57727	219.17457	114.53042	3.87124	0.2575578	0.27897679	2.3196582	20	2 25.9	21.4
306074 2010 GF_{118}	17.8	X	268.25599	228.73083	74.00409	8.93128	0.1717837	0.28450067	2.2895344	20	3 17.7	21.2
306075 2010 GJ_{119}	17.3	X	147.93328	291.59730	26.03118	5.37182	0.1156594	0.25951033	2.4342562	20	—	—
306076 2010 GC_{121}	17.6	X	228.78371	86.38898	168.11544	1.51143	0.1577447	0.26555151	2.3971960	20	—	—
306077 2010 GJ_{123}	17.8	X	268.81436	63.89884	234.78818	2.72608	0.1727097	0.28797253	2.2710952	20	3 6.1	21.0
306078 2010 GX_{123}	16.3	X	19.46775	258.52657	40.77759	25.58502	0.1999446	0.21768334	2.7368601	20	10 8.9	19.8
306079 2010 GV_{127}	17.2	X	216.27511	261.30941	87.93015	7.08541	0.1842890	0.28279392	2.2987373	20	3 24.9	20.9
306080 2010 GP_{138}	17.3	X	217.41786	343.07541	319.17291	2.95700	0.1828948	0.27552814	2.3389741	20	1 24.9	21.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
306081 2010 GG_{140}	17.4	X	294.29206	63.13416	184.12780	5.56846	0.1236094	0.28216566	2.3021482	20	2 3.3	20.4
306082 2010 GF_{141}	17.7	X	266.62139	90.06280	191.79655	5.96319	0.1352149	0.28627402	2.2800695	20	2 14.5	20.9
306083 2010 GX_{142}	17.9	X	332.14074	129.84958	134.69883	4.21289	0.0973109	0.29811053	2.2193093	20	5 2.4	19.9
306084 2010 GP_{154}	16.3	X	46.98711	162.33264	140.87819	5.01685	0.0471588	0.21494623	2.7600450	20	10 21.2	20.0
306085 2010 GM_{156}	17.7	X	8.76717	151.81286	74.96656	6.42580	0.1223858	0.29760610	2.2218164	20	5 12.3	19.3
306086 2010 GO_{159}	17.0	X	207.67384	216.40756	91.14157	8.06425	0.1228145	0.27254627	2.3560033	20	1 23.3	20.5
306087 2010 GQ_{160}	16.4	X	74.13826	88.06637	186.36349	12.96017	0.1657546	0.22225885	2.6991685	20	11 3.9	20.5
306088 2010 HD_{7}	15.4	X	304.93316	4.18129	277.87256	12.74243	0.1607404	0.18198822	3.0839491	20	4 2.9	19.8
306089 2010 HE_{20}	17.4	X	200.03334	174.43922	90.37668	3.16729	0.1351706	0.26041333	2.4286256	20	—	—
306090 2010 HP_{25}	16.2	X	194.52054	11.18458	126.71108	5.33283	0.0160486	0.21004339	2.8028296	20	9 18.9	20.0
306091 2010 HA_{35}	15.1	X	238.38660	243.23350	74.36567	18.63777	0.2192313	0.16899913	3.2400105	20	3 17.5	20.8
306092 2010 HZ_{40}	16.1	X	237.90781	167.84674	171.62914	9.62973	0.0891641	0.17544584	3.1601474	20	4 13.1	20.8
306093 2010 HO_{43}	15.8	X	38.73645	303.25314	307.15380	7.00263	0.1655496	0.20027753	2.8932185	20	8 12.9	19.3
306094 2010 HG_{45}	16.0	X	234.81331	202.41053	173.76332	10.95536	0.0702827	0.18402267	3.0611774	20	5 26.6	20.7
306095 2010 HB_{51}	16.3	X	283.10740	101.35646	263.55959	6.61282	0.1450795	0.19139044	2.9821024	20	6 28.3	20.4
306096 2010 HD_{51}	15.3	X	297.66740	186.91555	98.89628	10.33845	0.0758560	0.17894449	3.1188213	20	4 21.9	19.7
306097 2010 HS_{58}	16.0	X	167.20300	235.37875	175.17745	13.07267	0.0221655	0.17619368	3.1511991	20	4 24.2	20.6
306098 2010 HS_{67}	16.1	X	84.07963	203.21204	66.20895	5.33829	0.0288908	0.21409408	2.7673639	20	10 21.9	19.9
306099 2010 HS_{77}	16.6	X	353.54761	289.01390	29.39190	10.60901	0.2835886	0.21241237	2.7819512	20	9 13.9	18.8
306100 2010 HY_{79}	16.0	X	35.28408	294.79983	54.19328	12.42869	0.3150458	0.22905354	2.6455220	20	—	—
306101 2010 HZ_{81}	16.8	X	242.67364	146.59772	125.32533	7.23068	0.0987076	0.27385015	2.3485189	20	1 13.2	20.0
306102 2010 HS_{83}	16.3	X	182.35566	304.84421	270.99599	4.11676	0.0935224	0.22863074	2.6487825	20	12 6.3	20.3
306103 2010 HE_{105}	17.5	X	31.09833	307.09978	202.40937	3.58435	0.0535412	0.28346498	2.2951079	20	2 21.1	19.8
306104 2010 HE_{107}	17.7	X	228.83491	96.92142	200.09705	2.27690	0.1902822	0.27353456	2.3503250	20	1 27.5	21.5
306105 2010 JU_{14}	17.2	X	102.63088	232.31351	66.52848	5.67967	0.1405294	0.23954517	2.5677009	20	12 30.3	21.2
306106 2010 JF_{29}	17.0	X	18.83615	188.35682	61.88168	0.51771	0.1434915	0.20582346	2.8410102	20	7 7.5	20.2
306107 2010 JV_{30}	17.5	X	206.85193	29.73149	249.41036	1.40055	0.1692655	0.26459422	2.4029744	20	—	—
306108 2010 JE_{32}	17.2	X	307.25360	23.44423	255.51268	4.26256	0.1813194	0.29027911	2.2590483	20	3 24.7	19.7
306109 2010 JZ_{32}	17.8	X	253.94167	175.78378	227.95153	6.29477	0.0575749	0.31194500	2.1531983	20	7 31.6	20.2
306110 2010 JK_{35}	16.8	X	70.59074	232.61083	24.25953	6.19449	0.2078776	0.22093315	2.7099553	20	10 12.4	20.7
306111 2010 JS_{37}	16.5	X	260.17695	53.13027	236.69794	9.92326	0.2440124	0.18314345	3.0709668	20	2 15.9	21.7
306112 2010 JK_{38}	15.3	X	86.61248	285.41183	38.21516	17.16308	0.2641749	0.23621395	2.5917853	20	—	—
306113 2010 JN_{40}	17.1	X	187.65368	77.74210	201.19331	6.31085	0.1146130	0.25829275	2.4419002	20	—	—
306114 2010 JP_{43}	17.7	X	234.69908	113.65025	146.10546	2.85490	0.1346819	0.26503909	2.4002847	20	—	—
306115 2010 JQ_{47}	17.4	X	166.51736	21.40454	299.46142	0.46937	0.1910800	0.26025038	2.4296393	20	1 5.2	21.0
306116 2010 JZ_{61}	16.0	X	236.81491	158.58545	187.16874	1.00016	0.1894989	0.17199504	3.2022760	20	4 9.7	21.3
306117 2010 JO_{73}	17.4	X	284.64162	244.85848	47.68714	2.13788	0.1296133	0.28769545	2.2725531	20	3 24.4	20.1
306118 2010 JC_{77}	16.9	X	148.20597	314.83702	55.44997	7.97411	0.1303885	0.27168323	2.3609901	20	2 13.6	20.3
306119 2010 JX_{82}	17.1	X	339.74628	120.99696	108.76112	7.41008	0.0535509	0.28684567	2.2770393	20	3 31.9	19.7
306120 2010 JY_{82}	18.0	X	278.79595	55.99888	181.84614	4.86966	0.2057862	0.27262619	2.3555428	20	—	—
306121 2010 JB_{83}	17.9	X	16.24610	287.25475	217.19349	19.57174	0.0799188	0.38011060	1.8873947	20	—	—
306122 2010 JF_{83}	17.2	X	44.83439	4.33474	54.46505	23.13883	0.0880250	0.36076031	1.9542954	20	—	—
306123 2010 JY_{84}	17.1	X	232.59234	229.76973	82.72224	7.78825	0.1333980	0.28123960	2.3071991	20	2 24.4	20.6
306124 2010 JT_{87}	17.3	X	289.75965	105.73912	152.97574	5.77614	0.1342481	0.28037975	2.3119137	20	2 12.9	20.2
306125 2010 JW_{87}	16.8	X	196.44071	116.25294	161.68877	6.53673	0.0950111	0.25952752	2.4341487	20	—	—
306126 2010 JK_{101}	15.7	X	286.68078	272.96257	45.29303	10.37677	0.1223073	0.18034363	3.1026694	20	5 6.8	20.0
306127 2010 JE_{103}	16.1	X	115.14365	310.66054	285.48999	7.46953	0.1339877	0.21445915	2.7642224	20	10 19.8	20.5
306128 Pipher	15.8	X	276.23246	65.51659	272.30705	8.53316	0.0822653	0.18174953	3.0866486	20	5 23.7	20.1
306129 2010 JT_{110}	17.1	X	232.75884	223.22674	70.13038	7.52953	0.1130866	0.27204742	2.3588825	20	1 31.8	20.7
306130 2010 JZ_{111}	16.4	X	335.91920	260.04803	73.99258	6.37872	0.0854246	0.21362722	2.7713944	20	8 21.4	19.7
306131 2010 JT_{112}	16.9	X	239.59091	29.52707	227.78624	9.10797	0.2048068	0.26736132	2.3863657	20	—	—
306132 2010 JU_{114}	16.2	X	0.19412	87.17109	243.06592	8.08869	0.2294581	0.21719253	2.7409817	20	10 4.8	18.9
306133 2010 JY_{115}	17.1	X	239.88204	354.62615	280.92325	3.29297	0.2128965	0.26860718	2.3789810	20	1 11.3	21.1
306134 2010 JO_{121}	17.3	X	0.30850	38.56332	151.37896	7.38554	0.1630615	0.28457113	2.2891565	20	2 20.3	19.3
306135 2010 JA_{129}	15.8	X	348.36460	46.85975	245.24032	8.15050	0.2486104	0.19242707	2.9713828	20	7 4.6	18.4
306136 2010 JP_{135}	15.2	X	261.62728	29.34738	284.59922	14.80472	0.0452341	0.17192984	3.2030856	20	4 4.5	20.1
306137 2010 JP_{148}	16.5	X	129.22130	72.47566	185.51614	12.75886	0.1511210	0.23561758	2.5961568	20	12 6.2	20.9
306138 2010 JM_{153}	17.3	X	282.92580	139.91454	93.33064	3.03568	0.1505549	0.27222315	2.3578672	20	1 2.9	20.4
306139 2010 JG_{174}	17.5	X	211.40080	168.94610	156.82693	5.95439	0.1192459	0.27676248	2.3320145	20	2 17.1	21.0
306140 2010 KW_{8}	15.5	X	262.12683	134.35308	126.31825	10.55372	0.1954582	0.17279213	3.1924204	20	1 24.5	20.5
306141 2010 KN_{10}	17.1	X	321.05493	36.30516	252.32712	3.22516	0.0893555	0.29567013	2.2315044	20	5 19.4	19.3
306142 2010 KX_{14}	15.7	X	308.95035	28.46880	278.58004	8.84235	0.0687610	0.18272378	3.0756672	20	5 30.2	19.9
306143 2010 KK_{17}	15.2	X	318.75570	11.62091	254.69856	14.61243	0.0382278	0.17477031	3.1682852	20	4 22.4	19.7
306144 2010 KY_{35}	15.5	X	124.57034	16.68832	243.42102	32.45017	0.1539384	0.23364708	2.6107331	20	12 2.6	19.7
306145 2010 KT_{36}	16.7	X	36.80832	199.20440	74.56724	14.05266	0.2204300	0.21321003	2.7750084	20	10 1.1	20.5
306146 2010 KX_{38}	17.4	X	85.12474	247.55188	71.31315	7.14816	0.1320531	0.24002621	2.5642691	20	—	—
306147 2010 KE_{54}	15.4	X	165.40037	182.15787	247.97539	8.27908	0.0391391	0.17404871	3.1770363	20	5 14.1	20.0
306148 2010 KZ_{61}	16.9	X	104.11688	32.17120	243.69766	5.30059	0.2728315	0.23016164	2.6370241	20	12 8.7	21.4
306149 2010 KC_{62}	17.1	X	310.08194	57.87150	216.52914	6.63337	0.1196503	0.28857708	2.2679222	20	4 3.2	19.5
306150 2010 KM_{62}	16.7	X	172.66779	39.97816	257.11820	7.45491	0.1159702	0.25497035	2.4630672	20	—	—
306151 2010 KV_{78}	15.4	X	324.40563	6.62088	280.31792	7.61789	0.1190218	0.18132487	3.0914659	20	5 19.9	19.4
306152 2010 KH_{98}	15.6	X	303.20418	47.64039	249.28878	11.94636	0.1371005	0.17758823	3.1346804	20	4 27.9	19.9
306153 2010 KV_{117}	16.2	X	47.80489	164.72506	85.58173	14.84447	0.1535679	0.21061649	2.7977429	20	9 2.9	20.1
306154 2010 KY_{117}	16.7	X	290.26496	7.08346	252.11585	9.48647	0.1103223	0.27920617	2.3183876	20	2 13.4	19.9
306155 2010 KL_{127}	15.5	X	227.70248	225.68544	99.14904	18.38312	0.2261894	0.17629857	3.1499490	20	3 14.1	21.1
306156 2010 KX_{127}	16.5	X	173.47470	322.68287	261.27344	6.70772	0.1514090	0.23998706	2.5645480	20	12 5.1	20.6
306157 2010 LC	15.8	X	72.67118	142.38101	207.33485	17.79076	0.1274052	0.23850080	2.5751913	20	—	—
306158 2010 LO_{14}	16.5	X	92.64988	170.70246	168.33145	7.66135	0.1951890	0.24182500	2.5515373	20	—	—
306159 2010 LS_{34}	17.0	X	212.18317	185.51657	118.90200	7.65358	0.1100039	0.26820172	2.3813780	20	1 23.5	20.3
306160 2010 LO_{60}	16.9	X	286.58654	355.44590	269.45811	5.99908	0.1924461	0.27851325	2.3222313	20	2 8.3	20.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
306161 2010 LJ_{63}	16.6	X	67.48406	97.62568	182.60872	11.86541	0.1453733	0.22253272	2.6969535	20	11 1.6	20.5
306162 2010 LR_{104}	16.7	X	57.78559	168.88114	167.77740	13.75661	0.0963993	0.23409013	2.6074380	20	12 25.1	20.7
306163 2010 MU_{2}	16.0	X	149.30633	95.83290	182.48457	14.84853	0.1248990	0.24275015	2.5450503	20	—	—
306164 2010 ML_{68}	16.7	X	141.52163	358.92012	248.90642	7.75069	0.2055595	0.24327436	2.5413929	20	12 4.7	21.0
306165 2010 MF_{84}	16.3	X	154.91488	327.66610	274.40694	13.66549	0.2055834	0.24546053	2.5262807	20	12 8.9	20.5
306166 2010 MB_{100}	15.1	X	121.13470	139.07896	184.28951	3.15987	0.1203509	0.12643366	3.9315239	20	—	—
306167 2010 MP_{107}	15.7	X	43.82680	29.21253	280.50134	14.10980	0.1353275	0.20315178	2.8658644	20	10 29.4	19.8
306168 2010 ME_{113}	16.4	X	120.31245	45.94115	237.77016	11.50813	0.1440890	0.22897652	2.6461152	20	12 25.5	20.8
306169 2010 NJ	16.0	X	51.27787	210.80227	94.47701	34.31271	0.2042556	0.23203256	2.6228297	20	12 1.3	20.2
306170 2010 NP_{4}	16.3	X	62.41255	172.59167	137.72573	3.07285	0.1180131	0.22005856	2.7171307	20	11 27.9	20.1
306171 2010 NS_{4}	16.8	X	161.19406	314.23082	288.75551	4.22172	0.2046452	0.23403033	2.6078821	20	12 13.2	21.2
306172 2010 NA_{9}	17.1	X	228.63672	355.68196	244.98859	4.70656	0.1932880	0.26434600	2.4044785	20	—	—
306173 2010 NK_{83}	13.6	X	225.00534	342.08558	103.17943	11.33639	0.5827994	0.06887023	5.8945188	20	7 2.9	22.9
306174 2010 OD_{77}	15.3	X	216.69534	38.80696	59.50183	28.28514	0.1666271	0.17997084	3.1069525	20	8 17.9	20.8
306175 2010 TQ_{24}	17.2	X	80.77746	350.98093	290.16701	6.89636	0.1371695	0.30596846	2.1811470	20	11 28.5	20.2
306176 2010 TH_{138}	17.7	X	34.57751	10.11423	262.67772	3.66827	0.1303348	0.28753989	2.2733727	20	9 12.9	20.2
306177 2010 US_{82}	13.1	X	234.42050	220.58706	248.06738	8.72266	0.0596519	0.08370401	5.1757329	20	9 4.1	20.2
306178 2010 WR_{11}	13.5	X	275.26797	115.51143	329.05612	10.41021	0.1430594	0.08538074	5.1077478	20	9 12.9	20.3
306179 2010 WA_{55}	13.8	X	264.33009	69.41047	29.15888	6.15493	0.0861837	0.08324915	5.1945690	20	9 27.2	20.7
306180 2011 AL_{67}	17.6	X	163.95100	281.52647	247.46966	0.43339	0.1257815	0.27081205	2.3660507	20	9 23.7	21.1
306181 2011 CE_{71}	17.9	X	245.72826	337.98457	241.89888	3.55937	0.1292252	0.30227896	2.1988593	20	—	—
306182 2011 DF_{19}	16.8	X	146.33571	308.61035	270.06655	4.95169	0.0883487	0.27231215	2.3573534	20	11 8.8	20.1
306183 2011 FM_{3}	17.8	X	249.68993	276.93993	306.57802	2.92984	0.1587009	0.29764352	2.2216302	20	—	—
306184 2011 FP_{17}	16.5	X	28.26404	96.55629	101.52147	9.55020	0.1016573	0.22344192	2.6896325	20	5 9.9	19.7
306185 2011 FK_{132}	16.0	X	29.64910	290.37411	233.69388	12.36562	0.1783538	0.21897302	2.7261033	20	3 21.8	19.0
306186 2011 KR_{15}	15.6	X	62.50024	40.54197	252.68986	26.43917	0.0522984	0.22547678	2.6734260	20	10 25.1	19.7
306187 2011 KS_{15}	14.5	X	262.00980	17.69917	289.22822	19.06005	0.1924459	0.18540482	3.0459449	20	3 6.6	19.7
306188 2011 NJ	16.2	X	346.19051	324.74132	338.63611	6.61935	0.2927502	0.21203557	2.7852461	20	7 21.6	18.0
306189 2011 NS_{3}	16.1	X	18.64831	314.38311	352.75041	14.60357	0.2747798	0.21879947	2.7275447	20	10 13.8	19.2
306190 2011 NV_{3}	17.3	X	158.48481	58.90533	315.54756	5.04458	0.2487958	0.27804575	2.3248336	20	3 4.4	21.0
306191 2011 OT_{12}	17.1	X	103.38050	114.96509	200.43312	0.61633	0.1946686	0.25658996	2.4526916	20	—	—
306192 2011 OE_{45}	15.4	X	226.69612	327.15826	327.70145	11.40041	0.0488292	0.17524379	3.1625759	20	2 9.9	20.1
306193 2011 OU_{48}	17.1	X	84.83458	156.56461	190.65727	1.67259	0.1860511	0.25552707	2.4594884	20	—	—
306194 2011 PV	17.5	X	88.57395	23.75221	293.21556	19.04329	0.0518121	0.36173507	1.9507830	20	—	—
306195 2011 PP_{1}	17.7	X	108.04573	189.21076	184.20545	1.95073	0.2207949	0.26343868	2.4099962	20	1 10.4	20.6
306196 2011 PJ_{8}	16.5	X	106.55294	20.62105	182.20533	3.35130	0.0268360	0.21461159	2.7629134	20	8 21.9	20.2
306197 2011 PQ_{8}	16.6	X	275.86382	132.40172	334.87931	12.85650	0.2009761	0.23105544	2.6302190	20	10 24.9	19.9
306198 2011 PF_{10}	15.6	X	175.13516	176.30544	187.68631	5.16100	0.1756411	0.17177542	3.2050049	20	3 10.3	21.0
306199 2011 QV_{1}	15.6	X	99.43474	205.26776	170.11131	17.11936	0.1187995	0.15102868	3.4921785	20	1 6.9	20.8
306200 2011 QM_{3}	13.4	X	279.14962	93.01466	220.75332	8.31084	0.1032932	0.08508303	5.1196555	20	4 28.3	20.2
306201 2011 QV_{5}	16.6	X	96.06179	53.84812	214.92615	10.04719	0.0909823	0.23963283	2.5670747	20	11 14.3	20.3
306202 2011 QY_{6}	15.1	X	110.12550	54.31251	179.41677	10.10672	0.1910817	0.12562021	3.9484780	20	10 9.6	21.2
306203 2011 QO_{10}	17.2	X	195.57233	64.86625	184.99199	7.85046	0.1643170	0.26311706	2.4119597	20	—	—
306204 2011 QV_{10}	15.9	X	214.21028	330.24975	339.31215	3.13502	0.1693841	0.17120479	3.2121226	20	2 10.6	21.3
306205 2011 QK_{13}	18.0	X	187.28205	87.09924	215.40344	5.06657	0.2182469	0.27625385	2.3348760	20	—	—
306206 2011 QH_{16}	17.4	X	329.53059	299.91309	39.21315	2.38802	0.2489935	0.21516317	2.7581895	20	8 4.3	19.6
306207 2011 QV_{16}	16.7	X	353.26544	149.05519	164.24639	7.47114	0.2292731	0.21802427	2.7340061	20	8 25.7	19.0
306208 2011 QK_{17}	18.2	X	162.93249	51.45121	327.55491	3.52210	0.2073931	0.28353996	2.2947032	20	3 11.4	21.9
306209 2011 QZ_{18}	15.8	X	159.04144	207.28863	178.79647	12.69604	0.0891119	0.17370369	3.1812419	20	3 17.7	20.6
306210 2011 QR_{24}	16.9	X	170.50276	251.99368	337.24618	2.05048	0.0906242	0.24572755	2.5244502	20	12 13.9	20.6
306211 2011 QO_{25}	16.5	X	314.11565	15.33234	348.94540	3.93073	0.0812893	0.21496286	2.7599026	20	8 25.9	19.8
306212 2011 QX_{25}	17.9	X	123.57292	17.69589	336.51363	3.34866	0.0861804	0.26540378	2.3980854	20	—	—
306213 2011 QZ_{30}	17.2	X	145.56450	350.09768	344.99249	6.55288	0.1345091	0.27065130	2.3669875	20	—	—
306214 2011 QC_{32}	16.6	X	148.04451	251.11645	62.76401	3.24455	0.1864964	0.26366375	2.4086245	20	—	—
306215 2011 QH_{32}	15.5	X	353.42014	43.09773	18.20806	2.87604	0.2462707	0.12503274	3.9608363	20	12 25.6	19.9
306216 2011 QN_{32}	16.6	X	16.61491	229.29772	126.90173	3.17192	0.1097650	0.23193269	2.6235826	20	11 29.1	19.7
306217 2011 QN_{37}	17.2	X	136.94408	98.14459	241.45231	3.66825	0.2287925	0.26528865	2.3987791	20	1 2.1	20.5
306218 2011 QR_{37}	16.9	X	187.79580	111.49484	197.93484	5.66310	0.1468652	0.27448837	2.3448771	20	1 5.3	20.5
306219 2011 QT_{37}	16.7	X	18.33205	171.67411	197.34180	3.34286	0.2669824	0.23090829	2.6313364	20	—	—
306220 2011 QS_{40}	15.9	X	78.41076	306.27632	350.35237	13.12670	0.1799530	0.23517958	2.5993792	20	12 4.6	20.2
306221 2011 QJ_{44}	16.8	X	358.17351	0.34214	297.78129	7.76715	0.2639329	0.21749737	2.7384199	20	8 15.3	18.9
306222 2011 QX_{49}	17.9	X	258.60924	11.60685	284.75794	4.02870	0.1675135	0.29575045	2.2311004	20	2 21.0	21.0
306223 2011 QE_{50}	16.2	X	180.70335	187.44483	183.16856	12.77435	0.2636110	0.17423674	3.1747502	20	3 24.4	21.7
306224 2011 QC_{51}	17.5	X	133.35200	169.28445	150.88527	3.16751	0.2854947	0.26387906	2.4073141	20	—	—
306225 2011 QH_{55}	17.6	X	268.10706	50.61852	204.15836	6.57433	0.0813978	0.28329798	2.2960098	20	1 17.9	20.8
306226 2011 QZ_{55}	16.3	X	268.16898	173.03111	199.02536	1.45908	0.0868525	0.20285592	2.8686502	20	6 27.2	20.3
306227 2011 QQ_{58}	16.7	X	256.45262	136.84491	277.96535	1.91892	0.0775440	0.21126339	2.7920288	20	8 9.3	20.3
306228 2011 QM_{60}	15.3	X	295.80980	47.55278	189.71814	15.27017	0.0934079	0.17267920	3.1938122	20	2 10.1	20.1
306229 2011 QG_{61}	15.6	X	143.57373	231.16467	181.82469	18.52972	0.1505334	0.17277832	3.1925905	20	4 9.4	20.7
306230 2011 QM_{61}	16.1	X	338.04058	121.26045	185.40491	19.95125	0.2639222	0.21066203	2.7973397	20	6 29.7	19.1
306231 2011 QR_{62}	17.8	X	171.37188	119.20984	175.48332	10.70638	0.1107900	0.26575931	2.3959462	20	—	—
306232 2011 QS_{62}	17.6	X	208.67458	347.85684	244.93901	1.39166	0.1684397	0.26068982	2.4269081	20	—	—
306233 2011 QU_{62}	16.8	X	62.93123	99.91967	180.22362	6.49044	0.0777926	0.22654897	2.6649843	20	10 17.6	20.5
306234 2011 QT_{64}	17.8	X	40.95771	40.88546	157.04585	4.66026	0.1149746	0.29715487	2.2240650	20	5 30.2	19.9
306235 2011 QZ_{64}	15.9	X	225.07268	0.14063	341.82335	7.70092	0.1318454	0.18153745	3.0890521	20	3 26.8	20.8
306236 2011 QR_{67}	16.2	X	345.18228	149.74112	177.40792	7.31663	0.1769761	0.21567085	2.7538593	20	8 24.4	18.9
306237 2011 QV_{67}	16.7	X	140.08592	69.33205	255.06746	0.50496	0.1875501	0.26299083	2.4127314	20	—	—
306238 2011 QW_{67}	15.6	X	234.90491	338.07659	337.26360	10.82810	0.1687337	0.17789360	3.1310920	20	3 3.9	20.6
306239 2011 QS_{68}	16.0	X	225.38040	121.71350	188.04344	16.11054	0.2530490	0.17715167	3.1398282	20	2 12.9	21.6
306240 2011 QV_{68}	15.8	X	285.66048	314.74465	29.21594	8.49695	0.0868883	0.20061681	2.8899556	20	6 12.4	19.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
306241 2011 QV_{70}	15.9	X	296.22007	261.81731	171.11029	21.97641	0.0491328	0.22656033	2.6648952	20	11 8.4	19.7
306242 2011 QB_{71}	16.5	X	7.91338	296.49254	24.05513	10.41281	0.2529951	0.22245544	2.6975781	20	10 15.7	19.1
306243 2011 QW_{71}	15.6	X	213.74703	332.81454	351.98011	28.70957	0.1887382	0.17346961	3.1841031	20	3 2.5	21.0
306244 2011 QL_{72}	16.6	X	163.70584	286.91542	24.40302	6.59945	0.1532280	0.26764664	2.3846694	20	—	—
306245 2011 QF_{76}	16.0	X	221.56468	64.72531	357.52993	11.10594	0.0949362	0.20053681	2.8907242	20	7 7.1	20.5
306246 2011 QK_{76}	16.5	X	234.15168	262.40960	176.13659	4.46297	0.0393806	0.21121797	2.7924290	20	8 16.9	20.4
306247 2011 QM_{76}	17.9	X	170.23360	91.37702	217.57481	0.80130	0.1967313	0.27020239	2.3696085	20	—	—
306248 2011 QG_{78}	16.5	X	244.61475	159.41963	153.26474	6.20272	0.1355163	0.18076803	3.0978114	20	3 13.5	21.2
306249 2011 QE_{85}	18.1	X	203.19315	70.44718	194.67460	3.00737	0.1521830	0.26898975	2.3767248	20	—	—
306250 2011 QC_{88}	16.6	X	236.35696	296.97490	5.68328	18.69072	0.3007100	0.17890134	3.1193228	20	2 20.4	22.3
306251 2011 QY_{89}	16.2	X	80.03202	309.19111	328.62678	9.88296	0.1343526	0.23036311	2.6354863	20	11 6.3	20.4
306252 2011 QA_{95}	16.4	X	82.89070	358.26169	349.82424	8.35606	0.2245860	0.25425360	2.4676940	20	—	—
306253 2011 QU_{95}	16.0	X	69.33943	357.33103	344.88388	13.00103	0.2980370	0.24065205	2.5598215	20	—	—
306254 2011 QX_{95}	16.2	X	4.56239	102.36901	183.23373	19.20702	0.2952627	0.21358045	2.7717989	20	8 13.9	18.7
306255 2011 RR_{2}	17.0	X	42.71673	312.23236	323.56498	4.11802	0.1276482	0.22035702	2.7146767	20	9 18.9	20.4
306256 2011 RS_{2}	18.2	X	222.17938	45.41081	211.18107	1.92405	0.1876972	0.27313643	2.3526083	20	—	—
306257 2011 RF_{3}	18.0	X	28.40762	71.52225	271.19669	1.83352	0.1106036	0.23333169	2.6130851	20	11 27.7	21.1
306258 2011 RG_{3}	15.5	X	42.04741	330.72440	174.48448	9.45230	0.0412681	0.17442024	3.1725231	20	3 17.1	19.7
306259 2011 RT_{3}	16.7	X	357.76142	129.23578	192.74241	6.27098	0.0356748	0.21703922	2.7422722	20	9 2.8	20.2
306260 2011 RB_{4}	15.9	X	239.41136	310.13164	9.49927	23.82075	0.3006218	0.18125330	3.0922797	20	3 11.9	21.5
306261 2011 RL_{6}	17.0	X	310.33470	329.14852	304.72217	1.67529	0.1662653	0.19237695	2.9718989	20	4 3.9	20.8
306262 2011 RR_{8}	16.6	X	165.92274	287.28639	177.94958	14.49888	0.1660918	0.19470102	2.9482020	20	6 30.3	21.7
306263 2011 RC_{11}	15.9	X	210.30221	58.24105	339.90382	16.13321	0.1343092	0.18671538	3.0316751	20	5 15.6	21.0
306264 2011 RM_{11}	16.5	X	8.58624	173.56077	173.55740	14.66951	0.1835001	0.22665801	2.6641295	20	11 16.6	19.7
306265 2011 RX_{11}	16.2	X	272.47892	131.85396	189.38698	10.75023	0.1571583	0.18836993	3.0138965	20	4 19.5	20.7
306266 2011 RB_{12}	17.0	X	132.61372	207.66075	184.48899	6.10401	0.0450585	0.27650980	2.3334349	20	2 6.5	20.0
306267 2011 RG_{12}	16.6	X	278.21442	174.23400	195.87931	1.56659	0.1021333	0.20195092	2.8772139	20	7 5.6	20.4
306268 2011 RU_{12}	17.3	X	357.66262	351.69885	288.92698	2.04799	0.1175719	0.20692140	2.8309516	20	7 10.4	20.2
306269 2011 RT_{14}	16.7	X	181.57598	312.32059	37.41297	3.36025	0.2424989	0.27663703	2.3327194	20	2 24.5	20.6
306270 2011 SL	16.7	X	266.48611	226.85569	188.60235	4.07491	0.0652672	0.21432862	2.7653447	20	8 25.3	20.4
306271 2011 SG_{3}	16.2	X	337.16116	131.92140	187.57697	8.55175	0.1467064	0.21118388	2.7927295	20	7 25.8	19.3
306272 2011 SJ_{3}	16.3	X	334.94021	213.03252	186.84196	13.39972	0.3139325	0.22577174	2.6710970	20	12 7.9	18.4
306273 2011 SZ_{6}	16.5	X	273.37574	154.35778	184.00043	13.50644	0.0966479	0.19542527	2.9409133	20	5 21.3	20.8
306274 2011 SM_{7}	17.2	X	139.74847	146.33365	196.90938	4.39196	0.2439397	0.26639244	2.3921484	20	1 10.7	20.8
306275 2011 SW_{7}	16.1	X	213.18476	164.02742	184.19346	10.46980	0.0528765	0.17965600	3.1105813	20	3 28.6	20.7
306276 2011 SE_{8}	16.4	X	270.88590	175.69857	199.95127	11.71854	0.1259049	0.20256304	2.8714147	20	6 28.5	20.6
306277 2011 SF_{8}	16.1	X	213.49156	28.32973	326.22663	2.51497	0.2164474	0.18001990	3.1063881	20	3 29.0	21.5
306278 2011 SH_{12}	15.2	X	188.29958	5.84552	21.73346	22.49216	0.2292579	0.17586033	3.1551799	20	4 16.3	20.7
306279 2011 ST_{15}	16.1	X	221.79325	114.48881	183.34406	15.27617	0.1299884	0.16951064	3.2334891	20	2 2.0	21.4
306280 2011 SO_{22}	15.1	X	58.63688	325.99467	356.83647	17.78450	0.2990907	0.23349421	2.6118725	20	—	—
306281 2011 SM_{23}	16.9	X	171.78024	63.17086	236.31322	4.13934	0.2238289	0.26461948	2.4028215	20	—	—
306282 2011 SX_{24}	17.4	X	85.90038	157.03085	152.34261	0.86017	0.0481904	0.23902922	2.5713945	20	12 19.2	20.8
306283 2011 SW_{25}	17.3	X	19.46291	248.80336	200.83146	9.13847	0.1585626	0.25590033	2.4570962	20	—	—
306284 2011 SV_{26}	16.5	X	77.53384	35.12306	3.49024	13.01046	0.2102138	0.26045330	2.4283771	20	—	—
306285 2011 SW_{26}	17.0	X	140.40562	186.67288	177.10667	1.74549	0.1449921	0.27285604	2.3542198	20	1 25.1	20.1
306286 2011 SU_{27}	17.4	X	120.90633	185.45952	177.81211	2.39408	0.2144989	0.26495214	2.4008098	20	1 12.3	20.4
306287 2011 SX_{27}	16.9	X	96.23049	300.26166	93.69097	3.27482	0.2164635	0.26289303	2.4133298	20	1 21.3	19.6
306288 2011 SM_{28}	17.0	X	264.39326	4.96239	321.65286	8.67355	0.2961684	0.30350428	2.1929371	20	3 22.2	20.5
306289 2011 SO_{28}	16.1	X	8.27925	102.17857	226.84496	11.33066	0.1229515	0.21930840	2.7233233	20	10 5.9	19.4
306290 2011 SE_{29}	16.7	X	150.66489	75.62955	203.26865	2.88800	0.1770283	0.25278388	2.4772498	20	—	—
306291 2011 SS_{32}	16.6	X	317.44085	181.05959	181.88095	4.42047	0.1177244	0.21489898	2.7604495	20	8 24.7	19.8
306292 2011 SU_{32}	16.9	X	93.64624	27.30110	349.74545	6.27642	0.0755613	0.26148188	2.4220047	20	—	—
306293 2011 SG_{33}	17.4	X	123.63549	280.64321	78.57857	2.26357	0.1987745	0.26421357	2.4052818	20	1 8.8	20.5
306294 2011 SA_{37}	17.4	X	178.07719	188.36969	122.84782	3.11488	0.2146161	0.26884949	2.3775514	20	1 4.2	21.1
306295 2011 SO_{40}	15.4	X	215.76428	61.41401	298.13622	7.83683	0.0917826	0.17643044	3.1483793	20	4 8.1	20.4
306296 2011 SD_{44}	16.9	X	313.93341	36.18974	254.72178	0.98200	0.0968312	0.19503366	2.9448488	20	5 12.6	20.5
306297 2011 SU_{49}	15.5	X	204.86043	183.45587	184.08438	18.22891	0.2202443	0.17625336	3.1504876	20	4 8.5	20.9
306298 2011 SF_{53}	15.9	X	320.64600	220.22863	9.86758	8.78183	0.0460460	0.17179193	3.2047995	20	3 14.8	20.2
306299 2011 SN_{53}	16.0	X	149.29454	264.89557	190.19636	11.16246	0.1650879	0.18164970	3.0877794	20	6 4.4	21.1
306300 2011 SG_{58}	15.3	X	206.96210	8.32547	2.07833	12.00659	0.0809745	0.18017128	3.1046478	20	4 13.5	20.1
306301 2011 SH_{58}	16.0	X	303.26850	8.15174	0.05433	4.11722	0.0842499	0.20958398	2.8069240	20	8 13.9	19.4
306302 2011 SO_{58}	17.1	X	263.25746	235.18241	184.34943	5.71009	0.0123878	0.21622949	2.7491141	20	9 3.6	20.8
306303 2011 SR_{63}	16.8	X	77.16666	144.26041	252.49516	4.23962	0.1004460	0.26133489	2.4229128	20	—	—
306304 2011 SY_{64}	17.2	X	325.29838	137.50688	202.42671	2.44383	0.1012235	0.21155074	2.7894999	20	8 6.6	20.5
306305 2011 SQ_{65}	16.3	X	331.86507	162.81498	221.01701	11.31018	0.1972202	0.22223288	2.6993788	20	10 22.5	18.7
306306 2011 SV_{65}	15.6	X	228.89975	57.58053	269.23923	11.38648	0.1673767	0.17658759	3.1465111	20	3 7.1	21.0
306307 2011 SD_{70}	16.5	X	296.74161	334.25110	74.66110	14.17399	0.0503700	0.21558741	2.7545698	20	10 9.8	20.3
306308 2011 SL_{70}	17.5	X	159.65752	332.16414	335.30134	3.83832	0.1457052	0.26304447	2.4124034	20	—	—
306309 2011 SH_{71}	16.4	X	284.02523	325.23089	353.28313	13.73376	0.1323859	0.19253955	2.9702255	20	4 26.3	20.8
306310 2011 SX_{77}	15.7	X	211.74085	203.40855	195.21498	17.93311	0.2364921	0.18248200	3.0783833	20	5 19.8	21.2
306311 2011 SM_{79}	15.8	X	322.60944	247.03314	347.20773	3.10031	0.0529270	0.17689390	3.1428776	20	3 19.3	20.1
306312 2011 SZ_{80}	15.8	X	171.31624	180.68173	190.36834	8.23536	0.0705762	0.17041978	3.2219791	20	3 10.8	20.8
306313 2011 SA_{84}	17.7	X	98.44818	3.40068	17.85058	1.80200	0.1752960	0.26197306	2.4189764	20	—	—
306314 2011 ST_{85}	16.5	X	55.55179	159.04065	123.54631	4.40097	0.1687608	0.21714345	2.7413946	20	10 23.8	20.3
306315 2011 SX_{87}	15.8	X	227.98763	334.24032	3.43775	12.24477	0.1027877	0.17470376	3.1690898	20	3 28.1	20.7
306316 2011 SC_{89}	17.4	X	191.78637	305.23064	342.91926	5.60529	0.2466459	0.26885535	2.3775168	20	—	—
306317 2011 SE_{90}	15.7	X	189.99555	207.61900	207.51669	10.94258	0.1241810	0.18221539	3.0813854	20	5 23.6	20.6
306318 2011 SL_{90}	16.6	X	24.42187	336.40539	338.53178	3.73227	0.0894114	0.21675675	2.7446541	20	10 8.4	19.9
306319 2011 SZ_{91}	16.6	X	330.76235	46.47988	1.50309	4.61771	0.1569711	0.22377108	2.6869943	20	11 23.4	19.4
306320 2011 SS_{96}	17.3	X	138.86004	89.56177	208.59568	2.09468	0.1962138	0.25644737	2.4536007	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
306321 2011 SS_{97}	15.6	X	250.41915	172.31448	155.65841	9.77153	0.1396304	0.18389029	3.0626463	20	4 7.7	20.3
306322 2011 SA_{98}	16.3	X	167.57466	260.69371	177.43706	9.72982	0.1143496	0.18418190	3.0594128	20	5 30.5	21.3
306323 2011 SP_{98}	17.0	X	89.72032	83.25811	170.04771	2.83611	0.0614686	0.22113634	2.7082951	20	10 12.3	20.7
306324 2011 SD_{101}	16.6	X	310.22778	155.76692	165.98588	2.26775	0.0607659	0.19955974	2.9001521	20	6 22.5	20.3
306325 2011 SN_{102}	15.9	X	256.31288	20.63930	347.35295	16.77637	0.1679801	0.19953508	2.9003910	20	5 22.1	20.6
306326 2011 SQ_{103}	15.6	X	180.62611	14.52854	14.12069	9.49610	0.0881888	0.17656091	3.1468281	20	4 10.8	20.5
306327 2011 SA_{106}	18.0	X	203.14956	92.80763	209.67264	3.65282	0.2200823	0.27873546	2.3209969	20	1 12.6	21.8
306328 2011 SX_{106}	17.1	X	101.68170	236.40005	152.26718	1.54618	0.1874146	0.26368709	2.4084824	20	1 16.6	19.8
306329 2011 SW_{110}	16.9	X	227.37640	2.39676	253.78377	4.73191	0.1732331	0.27079974	2.3661225	20	—	—
306330 2011 SR_{112}	17.0	X	115.65588	257.54215	129.35986	3.61356	0.1779693	0.26712558	2.3877695	20	1 31.4	20.1
306331 2011 SH_{115}	16.0	X	332.51398	104.21946	177.29387	18.92539	0.1933268	0.19929376	2.9027318	20	5 21.7	19.5
306332 2011 SF_{117}	18.1	X	94.06338	87.29224	312.37498	1.87211	0.1845891	0.26148930	2.4219589	20	1 20.6	20.8
306333 2011 SB_{119}	17.1	X	204.30144	302.41761	6.71410	5.76695	0.1483911	0.27673870	2.3321480	20	1 22.7	20.7
306334 2011 SF_{119}	17.4	X	113.22547	224.39042	183.07051	3.45823	0.1975976	0.26961841	2.3730289	20	2 26.3	20.5
306335 2011 SL_{121}	17.9	X	68.04991	65.14088	3.62826	2.37774	0.1796130	0.26215022	2.4178864	20	1 16.0	20.0
306336 2011 SU_{121}	18.0	X	275.09420	301.27981	12.94055	2.97367	0.1792000	0.30122663	2.2039774	20	4 2.5	20.7
306337 2011 ST_{123}	16.2	X	206.18364	224.97809	171.43567	1.36039	0.1811327	0.18012982	3.1051242	20	5 13.7	21.2
306338 2011 SH_{129}	16.5	X	214.94350	294.61903	86.37184	2.27849	0.1931892	0.18158106	3.0885574	20	5 2.5	21.5
306339 2011 SQ_{129}	17.6	X	277.20064	309.58381	26.55166	8.94953	0.2007916	0.30633616	2.1794013	20	5 1.2	20.2
306340 2011 SB_{134}	17.6	X	153.34839	204.21348	123.41040	2.20512	0.1893021	0.26351309	2.4095425	20	—	—
306341 2011 SV_{135}	17.7	X	108.67429	34.58224	16.78337	5.01368	0.1751174	0.27155659	2.3617241	20	2 24.9	20.6
306342 2011 SN_{136}	16.7	X	126.97472	313.12249	330.32599	3.54662	0.0999752	0.24449039	2.5329592	20	—	—
306343 2011 SM_{141}	17.2	X	149.23571	311.51387	28.48079	1.78660	0.1810878	0.26654740	2.3912212	20	1 10.4	20.7
306344 2011 SW_{146}	17.0	X	257.20604	276.01109	168.34455	2.07156	0.0480188	0.21804064	2.7338694	20	9 24.6	20.6
306345 2011 SP_{151}	16.5	X	48.59753	96.55111	143.31344	2.76827	0.0060438	0.20235899	2.8733446	20	7 21.9	20.3
306346 2011 SX_{162}	17.8	X	262.55483	1.52715	299.11503	4.51498	0.1978363	0.29296273	2.2452316	20	2 27.9	21.2
306347 2011 SP_{165}	16.1	X	214.31112	71.16161	259.37483	6.86029	0.2513881	0.17329342	3.1862609	20	2 28.5	21.8
306348 2011 SG_{168}	15.8	X	187.89681	40.16220	10.38721	9.50512	0.1075126	0.18126857	3.0921060	20	5 12.7	20.7
306349 2011 SK_{170}	17.9	X	148.69095	153.91163	201.32672	1.71559	0.2266799	0.27009797	2.3702191	20	2 1.0	21.4
306350 2011 SQ_{175}	16.4	X	318.38151	226.89197	157.89295	2.87642	0.0898859	0.21771553	2.7365902	20	9 30.4	19.4
306351 2011 ST_{175}	17.8	X	94.36655	23.75614	29.76708	2.85784	0.2192271	0.26608667	2.3939807	20	2 15.2	20.4
306352 2011 SW_{177}	17.5	X	137.52663	227.75830	132.66918	3.16939	0.1831852	0.26681855	2.3896009	20	1 23.4	20.7
306353 2011 SY_{178}	17.0	X	13.00233	346.31017	346.31626	4.35498	0.1129669	0.22005619	2.7171503	20	10 18.5	20.2
306354 2011 ST_{193}	16.2	X	222.50186	191.46862	172.62471	9.27967	0.1439187	0.18223245	3.0811930	20	4 23.1	21.1
306355 2011 SF_{194}	15.3	X	235.43695	310.03808	26.49471	12.85918	0.0925711	0.17893840	3.1188921	20	4 6.1	20.0
306356 2011 SB_{196}	17.6	X	53.31170	270.52185	185.50678	2.07643	0.1489151	0.27080387	2.3660984	20	1 20.5	19.7
306357 2011 SS_{201}	16.6	X	149.01420	29.18741	180.05648	4.76736	0.1476582	0.23100920	2.6305700	20	10 25.7	20.8
306358 2011 SC_{204}	18.3	X	239.94293	349.27305	336.61676	1.39266	0.1856916	0.29398199	2.2400389	20	3 11.9	21.9
306359 2011 SU_{205}	15.6	X	228.21451	195.12552	183.71398	10.25042	0.0781258	0.18491329	3.0513403	20	5 21.5	20.2
306360 2011 SB_{206}	16.9	X	65.43425	299.93407	27.23462	10.93064	0.1400784	0.23586911	2.5943108	20	12 27.3	20.9
306361 2011 SR_{217}	16.0	X	213.16742	168.85236	184.33619	15.85070	0.1125044	0.17932124	3.1144514	20	4 1.4	20.8
306362 2011 SG_{218}	16.7	X	39.30151	72.75509	252.56050	1.26085	0.1004718	0.22979293	2.6398441	20	11 17.4	19.9
306363 2011 SJ_{220}	17.3	X	138.04697	348.72713	352.56278	3.28232	0.1569933	0.26517046	2.3994919	20	—	—
306364 2011 TD	15.9	X	20.82271	214.70688	41.65057	6.10874	0.0703038	0.20214973	2.8753272	20	7 13.2	19.5
306365 2233 $P–L$	17.4	X	157.78217	80.56796	240.86771	4.23239	0.1977114	0.27001347	2.3707136	20	—	—
306366 2842 $P–L$	17.6	X	181.86652	319.91940	21.08399	2.67709	0.2187286	0.27188958	2.3597953	20	2 13.2	21.4
306367 Nut	15.6	X	341.65855	152.79800	346.22943	3.77214	0.7427137	0.24455988	2.5324793	20	—	—
306368 6259 $P–L$	16.8	X	77.45373	82.97260	240.59701	3.14481	0.2451694	0.23355208	2.6114411	20	—	—
306369 6883 $P–L$	17.4	X	124.83855	249.74064	161.95758	5.28189	0.1899117	0.27174268	2.3606457	20	3 16.4	20.6
306370 3154 $T–1$	15.9	X	236.96576	179.76539	359.89320	17.02059	0.1763538	0.23336499	2.6128366	20	12 12.1	19.8
306371 4282 $T–2$	17.0	X	127.68116	348.31069	22.25353	6.67971	0.1646829	0.26106383	2.4245897	20	1 26.1	20.3
306372 4285 $T–2$	15.2	X	201.25813	359.71197	15.28601	24.35334	0.1810384	0.18184438	3.0855751	20	4 11.2	20.3
306373 1125 $T–3$	16.2	X	191.35952	105.53600	293.71231	5.86745	0.2279598	0.17503645	3.1650729	20	5 1.8	21.7
306374 3362 $T–3$	17.3	X	84.84531	40.03757	34.68291	3.15457	0.1593289	0.26258114	2.4152404	20	2 21.0	19.9
306375 1980 RG_1	16.4	X	77.10156	113.39539	236.26380	4.51543	0.4663878	0.22809162	2.6529547	20	—	—
306376 1983 TA	16.7	X	107.21439	58.04828	5.89886	29.08149	0.4714674	0.22479416	2.6788354	20	4 8.7	21.5
306377 1990 WK_1	16.9	X	25.48288	230.13330	178.34430	5.87285	0.3147159	0.23599783	2.5933673	20	—	—
306378 1992 RU_5	16.8	X	87.59472	295.06970	42.46275	2.77661	0.2289775	0.25662542	2.4524657	20	—	—
306379 1993 BG_{10}	16.9	X	258.76295	185.23755	357.56686	2.70200	0.0320353	0.24728278	2.5138545	20	—	—
306380 1993 PH	15.4	X	116.16347	163.59853	303.91698	17.15397	0.1419811	0.24686199	2.5167104	20	5 8.8	19.4
306381 1993 RR_2	15.6	X	67.68413	161.87149	154.87265	11.36371	0.4865309	0.22678939	2.6631005	20	—	—
306382 1993 SL_9	16.4	X	201.42748	0.74516	2.08795	7.14859	0.1551677	0.27920723	2.3183817	20	3 25.2	19.9
306383 1993 VD	21.5	X	242.19386	254.21150	2.20037	2.06765	0.5514888	1.20250107	0.8758150	20	—	—
306384 1994 AB_9	17.7	X	112.18418	295.11355	121.81656	2.90413	0.2000108	0.26910251	2.3760608	20	3 10.9	20.9
306385 1994 AE_{10}	16.8	X	143.60002	118.11907	61.57476	2.84616	0.1242522	0.24378908	2.5378145	20	9 15.5	20.7
306386 1994 CF	16.3	X	161.71012	234.59341	275.69761	6.90931	0.1484189	0.24276171	2.5449695	20	8 22.3	20.4
306387 1994 GR_8	16.8	X	114.49590	164.81661	22.09746	1.87682	0.0343788	0.19777262	2.9175968	20	8 11.9	20.8
306388 1994 JX_7	15.7	X	122.94542	153.65668	75.05962	13.76131	0.0569092	0.20211286	2.8756769	20	10 21.8	20.1
306389 1994 PO_3	15.9	X	259.07606	181.24381	157.23406	12.36755	0.2776365	0.18163405	3.0879567	20	4 15.9	21.0
306390 1994 SM_8	16.7	X	125.87993	352.21614	5.79684	6.92222	0.2385933	0.24319407	2.5419523	20	1 20.1	20.5
306391 1994 VB_5	16.4	X	81.04622	81.08693	251.00705	3.86804	0.1131924	0.19557972	2.9393649	20	—	—
306392 1995 HW_1	16.6	X	253.24167	205.79764	91.70958	12.34908	0.1383600	0.26980103	2.3719579	20	2 28.7	20.3
306393 1995 MO_2	16.4	X	271.46721	163.72578	224.82807	4.93366	0.2566377	0.23341923	2.6124318	20	6 28.8	20.1
306394 1995 QD_{12}	15.9	X	19.60295	347.03472	297.64433	9.43491	0.1200466	0.19778019	2.9175224	20	8 20.1	19.4
306395 1995 SU_{51}	16.3	X	55.55591	173.06642	209.13369	1.92879	0.3260302	0.12600332	3.9404702	20	—	—
306396 1995 UZ_{22}	16.0	X	178.65888	245.62731	231.09804	8.97930	0.0421759	0.18816939	3.0160374	20	7 25.7	20.6
306397 1995 WW_{10}	16.6	X	248.53039	350.09049	25.95220	2.47175	0.1051751	0.18578937	3.0417403	20	6 5.0	21.1
306398 1995 XJ_3	16.6	X	38.79871	288.79253	132.02561	4.10625	0.1281696	0.24540191	2.5266830	20	—	—
306399 1996 AX_1	15.9	X	129.19444	149.49216	268.13523	10.70068	0.4345894	0.25605208	2.4561253	20	4 15.1	20.6
306400 1996 AX_{16}	16.4	X	72.23208	203.79179	139.43523	6.70045	0.2893695	0.23783862	2.5799688	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
306401 1996 JH_4	17.6	X	340.69806	143.18655	114.23845	3.48515	0.1263684	0.28757809	2.2731714	20	5 4.1	19.5
306402 1996 SM_2	17.1	X	339.86425	121.44201	218.54145	1.30615	0.0755975	0.20305828	2.8667440	20	8 31.1	20.5
306403 1996 TM_{31}	17.7	X	77.92353	9.56991	40.80841	3.34108	0.1703972	0.26063497	2.4272486	20	1 6.7	20.0
306404 1996 TJ_{34}	17.3	X	145.23289	338.50571	19.39873	2.80639	0.2221926	0.26452781	2.4033766	20	2 2.8	20.8
306405 1996 VY_9	16.2	X	276.77288	306.08394	83.24153	12.58470	0.1701923	0.19712257	2.9240075	20	7 19.6	20.3
306406 1996 VK_{26}	16.4	X	317.39697	115.09572	256.44478	8.35623	0.0974766	0.20221901	2.8746704	20	9 1.7	20.1
306407 1996 XO_6	16.1	X	292.71212	78.13636	358.81323	6.49841	0.0827865	0.24603190	2.5223679	20	11 3.8	19.1
306408 1996 XF_8	16.8	X	13.99641	71.94607	93.26763	7.27873	0.0780314	0.26404294	2.4063179	20	2 22.9	19.4
306409 1996 XU_{17}	18.5	X	101.22668	117.55963	285.20807	1.12076	0.2222624	0.26221482	2.4174893	20	2 9.8	21.5
306410 1996 XV_{23}	17.0	X	107.15678	164.15501	251.34501	4.14213	0.2184459	0.26383521	2.4075808	20	3 2.6	20.1
306411 1997 FY_4	15.4	X	183.65294	347.08250	106.93318	12.59280	0.1034638	0.17909512	3.1170723	20	7 3.7	20.2
306412 1997 GY_3	17.5	X	208.94852	177.84919	357.25834	5.26151	0.1641779	0.27828430	2.3235048	20	11 14.5	20.8
306413 1997 GF_{22}	17.3	X	161.57527	254.29250	31.65098	3.21469	0.3683785	0.32160438	2.1098654	20	—	—
306414 1997 WL_{14}	18.2	X	152.01456	337.40955	95.01819	2.56731	0.1983531	0.28244213	2.3006456	20	5 9.9	21.9
306415 1997 YL_{11}	17.6	X	45.56615	94.03732	34.92911	5.45814	0.4258385	0.22705644	2.6610120	20	4 19.6	19.5
306416 1998 HS_7	16.0	X	338.99953	97.07524	59.48205	14.55271	0.4519678	0.21774156	2.7363721	20	—	—
306417 1998 HF_9	16.3	X	277.87020	8.60677	126.91797	10.02033	0.2781355	0.20591672	2.8401524	20	11 25.8	19.6
306418 1998 KK_{56}	16.2	X	314.97806	128.96975	104.13948	26.13230	0.4961452	0.17207159	3.2013262	20	1 7.7	21.1
306419 1998 MS_6	15.3	X	355.63279	297.41423	297.86858	11.65977	0.0405074	0.17171559	3.2057494	20	5 2.1	19.8
306420 1998 OO_1	16.9	X	65.28526	145.10188	204.79218	7.06636	0.2121926	0.23718253	2.5847244	20	—	—
306421 1998 QB_1	18.3	X	226.44324	297.78763	30.65944	2.06897	0.4012998	0.30033540	2.2083354	20	2 27.1	22.6
306422 1998 QU_3	15.6	X	24.32223	240.50485	155.43790	31.13468	0.2885496	0.23341481	2.6124648	20	—	—
306423 1998 QR_{28}	17.5	X	199.99213	97.79562	251.19924	4.07161	0.2002041	0.25303669	2.4755995	20	3 6.6	21.7
306424 1998 QV_{36}	16.3	X	45.39029	26.43117	316.80169	12.22524	0.3012314	0.23230740	2.6207606	20	—	—
306425 1998 QF_{86}	15.9	X	92.61129	105.60705	248.10656	13.66935	0.1527920	0.23878700	2.5731332	20	—	—
306426 1998 QR_{104}	16.3	X	128.97853	309.03982	3.91327	15.73910	0.2418422	0.23964881	2.5669605	20	—	—
306427 1998 SZ_5	16.2	X	179.18323	44.97737	341.55571	5.45184	0.0687472	0.20928072	2.8096350	20	4 3.5	20.3
306428 1998 SL_{16}	16.6	X	138.88227	349.13707	10.32163	11.44954	0.1585265	0.24424615	2.5346474	20	1 28.0	20.4
306429 1998 ST_{45}	17.2	X	84.84918	145.80684	174.76852	5.13152	0.2618149	0.23438197	2.6052730	20	—	—
306430 1998 SG_{48}	17.2	X	283.63876	344.03116	11.76511	5.91684	0.1624653	0.30649919	2.1786284	20	6 16.8	19.6
306431 1998 SR_{49}	17.3	X	186.18394	54.64814	21.31124	29.12447	0.5326038	0.25216788	2.4812824	20	6 1.4	23.1
306432 1998 SD_{74}	17.1	X	244.42528	318.68821	46.36747	5.33044	0.2097776	0.25751448	2.4468177	20	5 5.7	20.8
306433 1998 SK_{77}	17.0	X	57.28978	100.06734	257.78999	1.94358	0.2536738	0.23437074	2.6053563	20	—	—
306434 1998 SP_{114}	16.1	X	131.38526	255.84178	50.19222	4.57099	0.2835780	0.23903604	2.5713457	20	—	—
306435 1998 SP_{142}	17.5	X	98.96426	249.12929	168.50674	6.37080	0.2383043	0.28874358	2.2670503	20	2 25.5	20.0
306436 1998 SB_{163}	16.9	X	101.43877	293.21747	18.93103	7.14609	0.4195386	0.23657464	2.5891503	20	—	—
306437 1998 TV_{17}	16.8	X	132.65700	282.64004	86.40477	1.19461	0.1687129	0.24479792	2.5308374	20	1 30.6	20.5
306438 1998 UD_1	16.1	X	307.63528	67.63554	316.97973	20.25895	0.4130884	0.17447028	3.1719165	20	7 20.6	19.6
306439 1998 UG_5	17.1	X	70.06346	275.63810	56.92595	6.59035	0.2300553	0.23211155	2.6222346	20	—	—
306440 1998 UZ_{13}	17.2	X	356.90867	23.60429	59.04818	3.04352	0.2046656	0.23178589	2.6246903	20	—	—
306441 1998 UV_{16}	17.1	X	50.89239	253.10255	117.11345	13.41019	0.3685727	0.23306066	2.6151107	20	—	—
306442 1998 VR_{47}	16.3	X	174.70281	74.22812	228.59090	10.62125	0.2823220	0.24142552	2.5543512	20	—	—
306443 1998 WL	16.2	X	66.16791	306.71618	68.53190	6.58549	0.4429392	0.23553463	2.5967663	20	—	—
306444 1998 WT_6	17.0	X	103.34445	215.40230	228.47247	2.07587	0.1862751	0.24424747	2.5346383	20	4 3.1	20.3
306445 1998 WL_{27}	17.1	X	108.50723	175.85883	228.46756	12.79986	0.2338407	0.24273541	2.5451534	20	2 19.9	20.9
306446 1998 WS_{32}	17.2	X	189.29464	343.88762	68.54807	0.97968	0.2165033	0.25262324	2.4782999	20	5 17.0	21.4
306447 1998 WO_{34}	16.8	X	282.28943	288.88932	234.54498	11.19338	0.0689967	0.23157776	2.6262626	20	—	—
306448 1998 XT	16.6	X	242.89930	336.96615	66.43710	9.56237	0.2484092	0.25875906	2.4389656	20	6 19.0	20.5
306449 1998 XL_{18}	16.8	X	16.55695	164.79111	235.46095	3.47236	0.1507587	0.22935537	2.6432005	20	—	—
306450 1998 XY_{44}	16.2	X	207.29684	75.18384	317.64131	8.54462	0.2424066	0.25166589	2.4845809	20	5 3.1	20.6
306451 1999 AW_{12}	16.8	X	274.03811	349.52544	119.50151	6.35614	0.0169012	0.21831390	2.7315876	20	11 23.6	20.5
306452 1999 AC_{15}	16.3	X	66.50091	201.54663	299.25777	11.75840	0.2028978	0.24075799	2.5590705	20	4 27.9	19.6
306453 1999 BE_8	16.3	X	114.28763	321.74659	147.39528	9.88238	0.4687382	0.24336639	2.5407523	20	6 13.6	21.2
306454 1999 BG_{27}	16.9	X	130.86027	87.49948	306.99790	2.09678	0.2322438	0.23988589	2.5652690	20	3 6.8	20.8
306455 1999 BF_{30}	18.2	X	146.34681	173.89608	312.73218	2.95361	0.1497896	0.29597342	2.2299797	20	7 13.4	21.4
306456 1999 CW_6	15.8	X	78.33203	53.26028	113.59472	15.82619	0.1553211	0.24404465	2.5360425	20	6 19.9	19.3
306457 1999 CR_{86}	15.7	X	63.85909	103.49419	42.47417	5.25181	0.2173174	0.24097037	2.5575666	20	5 8.7	18.6
306458 1999 ER_7	15.6	X	301.77791	171.31312	151.86504	3.50438	0.0876701	0.24598972	2.5226563	20	6 9.4	18.7
306459 1999 GS_3	16.2	X	11.38652	107.42548	44.66389	28.12990	0.4247893	0.23337314	2.6127757	20	—	—
306460 1999 GD_{59}	16.5	X	48.09077	197.52444	27.42509	13.45658	0.2162726	0.24201305	2.5502154	20	8 12.9	19.8
306461 1999 LY_5	14.8	X	16.14872	329.62825	206.33524	29.24477	0.4630563	0.18417057	3.0595383	20	3 28.8	16.0
306462 1999 RC_{32}	18.5	X	79.47478	82.86423	352.31522	30.95720	0.4320315	0.39544251	1.8382891	20	3 13.3	18.6
306463 1999 RL_{40}	17.2	X	296.93708	235.87807	173.96499	19.45333	0.0600941	0.37996948	1.8878620	20	11 16.1	19.1
306464 1999 RO_{44}	15.0	X	347.47954	84.68620	178.82817	27.09804	0.4025294	0.23200639	2.6230270	20	4 27.5	16.7
306465 1999 RG_{75}	16.3	X	117.99384	71.42738	344.50856	9.89977	0.2383769	0.25940576	2.4349103	20	3 19.0	19.9
306466 1999 RZ_{83}	16.7	X	139.42630	269.58481	120.68615	2.15801	0.1891962	0.25991465	2.4317311	20	3 5.4	20.2
306467 1999 RL_{97}	16.9	X	310.07167	14.22212	353.51703	7.03759	0.2333090	0.27967549	2.3157932	20	8 17.3	18.5
306468 1999 RF_{104}	16.3	X	168.17264	165.72485	192.74251	6.64376	0.1547977	0.26070213	2.4268317	20	2 17.2	20.1
306469 1999 RC_{180}	15.7	X	250.89019	293.69113	19.63480	12.30273	0.2447992	0.22078185	2.7111932	20	3 11.6	20.3
306470 1999 RF_{181}	17.0	X	43.33574	201.84052	143.63986	4.65977	0.2389167	0.24303358	2.5430712	20	—	—
306471 1999 RU_{184}	17.3	X	332.26940	334.36252	20.34771	6.89929	0.2426184	0.28203456	2.3028616	20	9 29.6	18.2
306472 1999 RK_{199}	15.3	X	255.40713	13.24695	342.78410	11.30077	0.3313952	0.17591576	3.1545170	20	4 21.1	20.8
306473 1999 RZ_{202}	16.5	X	47.15060	128.13269	217.77646	14.32050	0.1490006	0.24353786	2.5395595	20	12 31.2	20.3
306474 1999 RR_{210}	16.6	X	298.63263	54.94809	332.86228	12.52359	0.2846406	0.23086166	2.6316907	20	8 6.6	19.3
306475 1999 RK_{252}	17.2	X	24.49956	341.84662	346.98346	9.23725	0.2101870	0.28603698	2.2813290	20	11 30.5	20.1
306476 1999 RH_{258}	15.9	X	0.54502	201.15385	151.17844	13.40726	0.2537270	0.23663931	2.5886785	20	11 24.4	18.8
306477 1999 SY_2	16.0	X	30.18557	120.03907	228.99286	23.19621	0.2993385	0.28910745	2.2651477	20	—	—
306478 1999 SP_3	14.8	X	292.42071	100.44516	295.18087	26.73702	0.4044971	0.22849404	2.6498389	20	7 13.9	17.9
306479 1999 SE_{16}	16.7	X	35.67319	184.52338	215.28002	14.93364	0.3501103	0.24625980	2.5208115	20	—	—
306480 1999 TR_{14}	15.5	X	5.24683	15.42129	343.48434	9.57692	0.1065549	0.19027721	2.9937224	20	10 31.1	19.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
306481 1999 TL_{31}	16.9	X	93.30506	10.38433	9.16699	4.77715	0.2275087	0.25136082	2.4865908	20	1 1.4	19.7
306482 1999 TO_{62}	17.1	X	73.99882	344.74214	19.90430	0.28502	0.0779812	0.24531129	2.5273052	20	—	—
306483 1999 TR_{77}	16.9	X	170.58528	251.05820	212.83411	20.05902	0.0916390	0.36509835	1.9387842	20	7 5.8	19.8
306484 1999 TP_{134}	17.0	X	68.79486	2.05627	348.69736	2.52737	0.2082855	0.24550183	2.5259974	20	—	—
306485 1999 TQ_{151}	16.6	X	75.30496	343.54083	22.44657	13.90073	0.1910149	0.24718064	2.5145470	20	—	—
306486 1999 TD_{164}	16.1	X	53.19926	257.19787	47.39679	12.62793	0.2885750	0.23933073	2.5692344	20	12 2.9	20.1
306487 1999 TW_{178}	16.5	X	127.28111	291.77051	107.67436	3.69874	0.1798642	0.25640071	2.4538984	20	3 4.4	19.9
306488 1999 TM_{194}	16.2	X	44.84892	147.39706	254.04266	11.39982	0.1100688	0.24557468	2.5254978	20	—	—
306489 1999 TX_{196}	16.1	X	74.52720	63.67995	302.31436	4.17408	0.1994689	0.24603271	2.5223624	20	—	—
306490 1999 TR_{232}	16.5	X	114.66355	220.45018	88.53766	7.80764	0.3912847	0.24951237	2.4988566	20	—	—
306491 1999 TX_{233}	16.6	X	350.47851	174.99264	181.04544	11.84070	0.0990191	0.23574298	2.5952361	20	10 19.7	19.5
306492 1999 TM_{244}	15.2	X	270.57547	307.16716	7.65815	21.94523	0.1334451	0.17380847	3.1799631	20	4 8.2	20.0
306493 1999 TF_{280}	17.4	X	108.38313	305.01142	54.64209	3.72016	0.2480436	0.25196918	2.4825868	20	—	—
306494 1999 TZ_{320}	17.5	X	32.61028	171.16798	205.32030	3.80665	0.2637680	0.24176391	2.5519671	20	—	—
306495 1999 TH_{328}	16.5	X	85.30515	327.27357	354.95216	7.26447	0.0702248	0.19767722	2.9185354	20	12 27.2	20.8
306496 1999 UJ_{12}	16.7	X	191.29575	301.71911	49.24073	3.93963	0.2103439	0.26203092	2.4186203	20	3 5.3	20.7
306497 1999 UC_{17}	14.8	X	312.24045	105.74974	203.17265	20.86837	0.4244493	0.17970493	3.1100168	20	4 12.5	18.6
306498 1999 UF_{27}	17.6	X	93.48971	17.40126	356.51743	3.65353	0.2250076	0.25191425	2.4829476	20	—	—
306499 1999 UY_{31}	17.7	X	24.74782	220.68757	202.93930	1.25852	0.1956952	0.24544413	2.5263932	20	—	—
306500 1999 UR_{33}	17.3	X	65.61921	279.98659	36.04341	4.58333	0.2726711	0.24167331	2.5526048	20	12 27.9	21.4
306501 1999 VH_{1}	16.8	X	18.13543	128.67283	214.82090	8.28527	0.2197132	0.23698477	2.5861622	20	12 2.8	19.9
306502 1999 VY_{31}	16.5	X	100.63966	333.60049	47.35300	3.12118	0.2040459	0.25053834	2.4920299	20	1 10.8	19.5
306503 1999 VB_{47}	17.0	X	85.65267	12.36475	45.04966	11.06381	0.2430733	0.25237779	2.4799064	20	2 18.1	20.0
306504 1999 VU_{51}	16.1	X	285.02201	347.34791	32.84875	13.58545	0.1859386	0.22672962	2.6635686	20	7 21.4	19.7
306505 1999 VH_{55}	16.5	X	12.17870	144.41180	221.10872	14.21222	0.1456099	0.23789395	2.5795688	20	12 11.1	19.7
306506 1999 VG_{96}	18.0	X	51.04372	174.16161	220.38834	5.22591	0.2589151	0.24625486	2.5208452	20	—	—
306507 1999 VM_{101}	17.3	X	355.88453	7.28518	62.65645	3.83905	0.1686351	0.24113800	2.5563812	20	—	—
306508 1999 VC_{107}	18.2	X	21.01757	214.79111	224.69287	3.82103	0.2478085	0.24462895	2.5320026	20	—	—
306509 1999 VB_{117}	17.4	X	19.26726	269.57320	171.05256	1.46954	0.1259930	0.24529711	2.5274026	20	—	—
306510 1999 VW_{118}	16.1	X	353.10253	17.24468	30.28871	15.03502	0.1003505	0.19221226	2.9735962	20	12 15.8	20.1
306511 1999 VR_{139}	17.1	X	27.58881	183.35128	224.36628	12.52908	0.2404533	0.24438259	2.5337040	20	—	—
306512 1999 VL_{171}	17.4	X	314.44513	114.37275	269.05319	3.69735	0.2853821	0.23105607	2.6302143	20	8 31.9	19.3
306513 1999 VM_{174}	17.2	X	20.65119	79.05017	345.22028	3.86311	0.2158725	0.24409226	2.5357127	20	—	—
306514 1999 VX_{178}	15.9	X	296.55731	119.11047	202.12648	23.17756	0.4953578	0.17927492	3.1149879	20	3 31.1	21.0
306515 1999 VX_{185}	16.3	X	93.13267	253.22911	61.12392	11.67981	0.2952114	0.24392177	2.5368941	20	—	—
306516 1999 VZ_{209}	17.5	X	111.59510	326.66202	56.29726	2.73054	0.1793270	0.25268105	2.4779219	20	1 24.3	20.6
306517 1999 WY	14.5	X	324.03419	95.51961	285.57068	26.19595	0.4237632	0.23066945	2.6331524	20	8 17.9	16.5
306518 1999 WF_{7}	17.1	X	336.07573	150.07720	275.24401	2.84184	0.3054982	0.23749664	2.5824449	20	—	—
306519 1999 WZ_{17}	15.6	X	10.23468	77.48510	229.60992	25.12271	0.2022028	0.18283714	3.0743957	20	9 3.9	19.6
306520 1999 WS_{19}	17.5	X	150.50642	146.04912	243.84848	0.38449	0.2010153	0.26098063	2.4251049	20	3 15.6	21.2
306521 1999 WW_{24}	15.9	X	9.04234	174.03543	227.99391	10.88244	0.1464294	0.19190554	2.9767638	20	—	—
306522 1999 XZ_{14}	15.8	X	328.08064	273.74278	89.29474	23.73341	0.3272040	0.27880763	2.3205964	20	10 25.7	17.5
306523 1999 XR_{35}	17.9	X	191.48688	82.01834	60.17035	18.70447	0.5133233	0.27093020	2.3653628	20	9 7.9	23.2
306524 1999 XO_{68}	17.6	X	41.40487	181.94245	237.06105	3.81235	0.2609161	0.24514946	2.5284173	20	—	—
306525 1999 XW_{91}	16.0	X	25.03457	182.96962	257.03588	11.18844	0.1937791	0.24348369	2.5399362	20	—	—
306526 1999 XD_{111}	16.4	X	126.17034	297.33526	59.59423	3.24989	0.1992841	0.25127795	2.4871375	20	1 11.3	19.9
306527 1999 XF_{111}	15.5	X	288.37883	81.64265	89.34164	31.35117	0.2162428	0.23657980	2.5891126	20	—	—
306528 1999 XH_{124}	16.4	X	309.14771	358.02656	41.01001	13.09055	0.2561139	0.23180188	2.6245695	20	9 27.2	18.7
306529 1999 XM_{143}	16.5	X	2.22846	18.39641	80.26832	35.72519	0.2030882	0.24175664	2.5520182	20	—	—
306530 1999 XM_{194}	15.1	X	68.27162	75.32674	301.05325	11.86209	0.2016873	0.24305717	2.5429067	20	—	—
306531 1999 XM_{195}	16.2	X	65.79195	348.84053	40.98745	9.68848	0.2646597	0.24488082	2.5302661	20	—	—
306532 1999 XA_{198}	15.7	X	58.28239	70.02476	311.17731	11.34421	0.2189606	0.24159207	2.5531771	20	—	—
306533 1999 XF_{198}	16.1	X	21.32789	166.73132	291.99434	11.45161	0.1322120	0.24562866	2.5251278	20	—	—
306534 1999 XS_{207}	14.9	X	99.88965	311.01195	61.15538	11.67944	0.2516371	0.24613320	2.5216758	20	1 6.5	18.0
306535 1999 XG_{210}	16.1	X	122.63956	80.77699	320.87934	10.41661	0.2482738	0.25367970	2.4714144	20	3 6.0	19.8
306536 1999 XU_{222}	16.1	X	28.62288	134.44664	333.40086	8.34260	0.1026381	0.24639719	2.5198743	20	—	—
306537 1999 XN_{232}	17.1	X	16.86550	292.74641	73.71292	6.09783	0.2627036	0.23797073	2.5790139	20	—	—
306538 1999 XY_{243}	15.6	X	22.76835	88.21431	348.55640	14.55707	0.1996284	0.24218190	2.5490299	20	—	—
306539 1999 YV_{3}	16.7	X	196.29241	101.53884	354.98667	23.19008	0.2708568	0.26771312	2.3842746	20	7 24.9	21.3
306540 1999 YB_{6}	14.7	X	295.85521	84.73599	321.13552	26.74810	0.3989992	0.23194815	2.6234660	20	8 6.6	17.5
306541 1999 YJ_{7}	16.0	X	84.03116	282.14916	92.84575	5.26370	0.1770326	0.24706217	2.5153507	20	—	—
306542 1999 YN_{8}	16.2	X	58.54983	275.40111	102.45747	5.40839	0.2549673	0.24061565	2.5600796	20	—	—
306543 1999 YU_{8}	17.1	X	181.34250	132.41059	300.09162	3.58310	0.1078809	0.31012760	2.1616022	20	6 5.1	20.0
306544 1999 YO_{12}	16.0	X	309.30148	108.73643	289.91320	10.31495	0.3038440	0.22903753	2.6456452	20	9 4.4	18.4
306545 1999 YS_{24}	16.7	X	291.46731	289.97895	256.00558	4.27333	0.0889026	0.24442989	2.5333771	20	—	—
306546 2000 AM_{5}	15.9	X	69.29570	304.31274	95.50931	5.17183	0.2319259	0.24502681	2.5292610	20	—	—
306547 2000 AP_{8}	16.0	X	39.53450	151.93151	305.93395	9.76717	0.2144288	0.19870145	2.9084975	20	1 20.0	18.8
306548 2000 AS_{35}	16.2	X	70.34155	296.00129	89.21390	11.30378	0.2821475	0.24479735	2.5308413	20	—	—
306549 2000 AC_{53}	16.6	X	32.06448	332.33289	75.10389	18.81879	0.2681884	0.24395559	2.5366596	20	—	—
306550 2000 AF_{89}	16.9	X	16.33673	327.64247	120.93358	13.97312	0.2301912	0.24132113	2.5550877	20	—	—
306551 2000 AT_{94}	16.7	X	2.83728	119.62798	288.27823	5.63368	0.2182898	0.23679597	2.5875367	20	—	—
306552 2000 AK_{154}	16.2	X	347.65299	99.88592	36.27965	3.90411	0.2414891	0.24242272	2.5473415	20	—	—
306553 2000 AX_{158}	15.8	X	49.97355	109.48982	302.51487	11.86828	0.1915265	0.24283001	2.5444923	20	—	—
306554 2000 AP_{194}	14.8	X	199.29832	1.37144	135.72579	28.24529	0.1626558	0.17448970	3.1716811	20	9 9.8	20.1
306555 2000 AG_{219}	16.7	X	71.69533	289.53150	105.09884	8.50745	0.2468417	0.24437439	2.5337607	20	—	—
306556 2000 AQ_{225}	17.4	X	34.35021	318.17646	88.68932	2.06011	0.2111034	0.24108864	2.5567301	20	—	—
306557 2000 BW_{13}	15.6	X	285.03907	239.63888	318.18270	12.38760	0.1208830	0.23918772	2.5702585	20	—	—
306558 2000 BL_{18}	16.7	X	337.82996	152.88160	327.60945	4.38968	0.2152885	0.23893882	2.5720431	20	—	—
306559 2000 BP_{46}	17.2	X	5.07640	339.92060	114.76161	1.71715	0.1599866	0.23871444	2.5736546	20	—	—
306560 2000 CH_{9}	17.0	X	308.62866	189.65174	288.83015	2.07519	0.2280375	0.23515962	2.5995263	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
306561 2000 CT_{68}	16.5	X	258.93939	41.09054	138.21837	3.30307	0.1166457	0.23364217	2.6107697	20	—	—
306562 2000 CM_{74}	17.0	X	327.84963	260.24593	295.31214	1.84525	0.0859602	0.24606929	2.5221124	20	1 23.3	19.9
306563 2000 CM_{86}	16.6	X	3.64339	351.86204	118.64508	4.92588	0.2538516	0.23994393	2.5648553	20	—	—
306564 2000 CC_{118}	16.7	X	16.69920	13.98115	130.33319	4.07057	0.0888596	0.24660912	2.5184304	20	1 28.6	19.5
306565 2000 CO_{120}	16.5	X	32.22180	119.89743	317.61625	2.71197	0.1394369	0.24139005	2.5546014	20	—	—
306566 2000 CZ_{126}	17.2	X	40.09802	72.01866	315.89761	3.07221	0.2523699	0.23736102	2.5834285	20	—	—
306567 2000 CJ_{127}	16.7	X	35.78804	94.67610	310.77390	4.93107	0.2507532	0.23982922	2.5656731	20	—	—
306568 2000 CU_{134}	17.6	X	44.20367	216.36468	149.03658	0.91704	0.1496392	0.23189674	2.6238537	20	—	—
306569 2000 CA_{138}	16.9	X	319.16243	207.39643	336.72973	3.52433	0.1716699	0.24047355	2.5610880	20	—	—
306570 2000 CR_{142}	17.0	X	80.04739	37.34610	316.47771	4.43947	0.2121740	0.23647140	2.5899038	20	—	—
306571 2000 DT_{2}	17.1	X	359.11402	268.42428	155.59718	2.46366	0.0786242	0.23361606	2.6109642	20	—	—
306572 2000 DL_{5}	16.1	X	289.17630	137.61074	46.25218	3.95747	0.1499585	0.23730321	2.5838481	20	—	—
306573 2000 DL_{47}	17.2	X	13.86280	208.41357	323.20995	0.58647	0.1275366	0.24667462	2.5179846	20	2 29.7	19.8
306574 2000 DG_{69}	17.1	X	68.16098	56.60337	174.36998	5.38785	0.1388839	0.30821102	2.1705541	20	9 6.9	19.8
306575 2000 DT_{104}	17.0	X	19.78211	131.12650	23.45483	7.43097	0.1454135	0.24572667	2.5244562	20	2 19.7	19.5
306576 2000 DQ_{117}	17.4	X	357.37621	160.22031	339.05264	12.69576	0.1853731	0.24076093	2.5590496	20	—	—
306577 2000 EO_{13}	16.4	X	269.63986	186.88302	3.67184	4.98378	0.2138843	0.23438240	2.6052699	20	—	—
306578 2000 EC_{76}	16.3	X	254.54776	170.53840	31.01614	5.30535	0.2067017	0.23328228	2.6134541	20	—	—
306579 2000 ET_{108}	16.1	X	312.05145	319.08792	176.35170	32.61023	0.2477395	0.23318218	2.6142020	20	—	—
306580 2000 EC_{134}	15.7	X	302.92914	189.19346	39.12842	13.93445	0.2034867	0.24011743	2.5636196	20	1 20.3	19.6
306581 2000 ED_{204}	16.9	X	7.21124	145.11133	182.07382	5.82432	0.1464454	0.21147795	2.7901399	20	10 5.9	20.0
306582 2000 FW	18.6	X	148.34894	196.15852	38.68233	2.12436	0.2112430	0.31764554	2.1273594	20	12 5.7	22.0
306583 2000 FC_{4}	16.9	X	247.65136	261.68393	303.28424	1.78739	0.1058505	0.23385012	2.6092218	20	—	—
306584 2000 FT_{7}	16.5	X	251.90679	98.10844	19.11695	31.07121	0.1534882	0.31961853	2.1185957	20	10 26.5	18.9
306585 2000 FH_{9}	16.9	X	95.65816	103.52887	196.75089	1.26484	0.0138211	0.22328013	2.6909316	20	12 12.6	20.5
306586 2000 FG_{22}	16.5	X	333.74648	3.60639	129.62107	7.05742	0.2477054	0.23639815	2.5904388	20	—	—
306587 2000 FL_{24}	15.8	X	114.38295	191.64196	93.89426	12.00045	0.4174253	0.21694108	2.7430992	20	12 28.1	21.1
306588 2000 FE_{54}	16.7	X	158.99288	192.40242	32.35785	9.98859	0.2194204	0.22022102	2.7157943	20	11 16.4	21.5
306589 2000 FS_{64}	16.4	X	222.59618	320.51309	237.36676	7.02980	0.2312791	0.22619434	2.6677690	20	12 11.2	20.3
306590 2000 GL_{3}	16.1	X	309.04456	255.88602	202.20274	24.47046	0.4706588	0.23154716	2.6264940	20	12 9.7	17.1
306591 2000 GB_{28}	17.8	X	339.28364	30.96632	209.71309	3.20337	0.2130446	0.29472956	2.2362495	20	3 17.7	19.6
306592 2000 GB_{44}	16.8	X	5.35469	172.41815	31.55376	6.14533	0.1165205	0.24594117	2.5229882	20	4 3.2	19.2
306593 2000 GQ_{116}	17.0	X	193.39276	178.74564	23.47300	4.44106	0.1331885	0.22300434	2.6931497	20	11 25.9	21.2
306594 2000 GJ_{120}	16.1	X	229.62488	149.50001	191.91693	11.82295	0.0698776	0.19765919	2.9187129	20	4 5.2	20.3
306595 2000 GG_{147}	18.9	X	172.86906	100.02702	31.63534	28.47857	0.3561917	0.41145693	1.7902752	20	9 5.4	22.6
306596 2000 GU_{160}	15.8	X	299.62251	190.74563	54.91462	13.87635	0.2437575	0.19079507	2.9883029	20	2 10.4	20.4
306597 2000 GE_{167}	16.0	X	322.70139	310.98592	235.38621	11.19113	0.2243056	0.24035454	2.5619334	20	—	—
306598 2000 GE_{176}	15.8	X	181.13620	334.59711	357.26193	13.22032	0.1940802	0.23908292	2.5710095	20	2 7.1	20.2
306599 2000 HZ_{24}	16.6	X	284.05656	314.57663	238.75957	3.56909	0.2508304	0.23327448	2.6135124	20	—	—
306600 2000 HO_{27}	15.8	X	184.61611	4.33152	234.47518	10.48706	0.4630609	0.22330143	2.6907605	20	12 11.3	21.1
306601 2000 HY_{34}	17.5	X	216.48682	235.08950	44.18054	21.62526	0.1086187	0.38095263	1.8846125	20	—	—
306602 2000 HY_{96}	16.5	X	358.71837	351.31479	185.46050	13.21246	0.2201073	0.24200799	2.5502510	20	1 26.9	19.2
306603 2000 JG_{2}	15.7	X	339.48150	106.15266	61.92942	24.97746	0.3237056	0.23968434	2.5667069	20	—	—
306604 2000 KM_{70}	15.8	X	211.36025	100.04479	232.30275	13.09816	0.1044556	0.23845724	2.5755049	20	2 23.9	20.0
306605 2000 LV_{25}	14.9	X	98.65633	109.46713	239.58153	30.38930	0.4346648	0.21445082	2.7642941	20	1 1.2	19.2
306606 2000 LU_{36}	14.5	X	175.65299	219.41022	140.63170	9.61294	0.4068436	0.22589886	2.6700949	20	3 11.6	19.8
306607 2000 OD_{2}	17.1	X	190.21619	183.89480	162.98110	7.00546	0.3106524	0.27719492	2.3295884	20	2 27.4	21.4
306608 2000 OZ_{15}	16.2	X	208.49509	6.09108	302.88743	12.61127	0.2382347	0.22745401	2.6579103	20	1 29.6	20.9
306609 2000 OG_{22}	16.5	X	232.86096	181.18464	151.60014	25.10629	0.2128729	0.28219611	2.3019826	20	3 16.6	20.4
306610 2000 OG_{36}	16.7	X	213.11525	70.36256	281.00533	6.69736	0.2012172	0.28083325	2.3094241	20	3 17.1	20.6
306611 2000 PA_{9}	15.0	X	164.81230	82.95253	286.83754	23.24922	0.3538437	0.17650826	3.1474538	20	3 3.1	21.2
306612 2000 PU_{27}	14.6	X	209.31419	106.79825	290.18737	24.53100	0.3133971	0.18001366	3.1064598	20	5 7.2	20.7
306613 2000 QX_{1}	14.5	X	101.18479	84.73434	297.62877	27.91541	0.4089261	0.21475586	2.7616759	20	2 7.9	18.9
306614 2000 QL_{2}	16.0	X	128.25321	118.45133	294.62070	22.00286	0.3109595	0.27207614	2.3587165	20	3 20.2	20.4
306615 2000 QK_{14}	15.9	X	252.32250	257.67067	98.53698	0.66423	0.2336894	0.18754231	3.0227568	20	5 1.9	20.6
306616 2000 QR_{14}	16.9	X	187.93457	242.36082	127.21098	2.83611	0.2197609	0.27931496	2.3177855	20	3 23.7	20.6
306617 2000 QP_{18}	16.3	X	202.56089	0.45378	323.00945	6.07107	0.2160541	0.22666567	2.6640695	20	2 11.6	20.7
306618 2000 QY_{25}	15.5	X	195.58912	254.61988	150.74064	29.54208	0.3086964	0.23022841	2.6365141	20	5 19.4	20.9
306619 2000 QE_{34}	17.1	X	178.61130	227.22654	143.79932	14.00178	0.2428304	0.27774589	2.3265066	20	3 20.7	21.1
306620 2000 QG_{46}	17.2	X	306.42998	218.62404	159.86297	6.58053	0.2650650	0.24518050	2.5282039	20	8 10.8	19.2
306621 2000 QH_{56}	17.0	X	168.36883	99.32644	296.17117	1.17904	0.2224896	0.27885889	2.3203120	20	4 7.1	20.8
306622 2000 QU_{58}	16.7	X	161.00447	334.72623	44.35089	3.52849	0.3226537	0.22549033	2.6733189	20	3 21.4	21.6
306623 2000 QD_{61}	16.5	X	118.00541	321.14870	345.60542	3.77793	0.1896432	0.21270415	2.7794065	20	—	—
306624 2000 QA_{62}	15.9	X	190.62359	205.90351	147.66934	14.89317	0.2664216	0.22696921	2.6616938	20	3 10.9	20.7
306625 2000 QB_{65}	16.7	X	69.56955	353.74662	20.65246	11.87416	0.2549101	0.26117872	2.4238785	20	—	—
306626 2000 QD_{77}	17.5	X	186.40355	184.13476	159.96063	2.41475	0.2232628	0.27555227	2.3388375	20	2 19.3	21.5
306627 2000 QA_{89}	16.8	X	237.85744	115.47104	229.95833	5.16685	0.1401424	0.28317155	2.2966931	20	4 7.1	20.2
306628 2000 QA_{154}	16.9	X	335.06572	125.19672	199.40137	9.47258	0.2386137	0.24573767	2.5243809	20	7 27.4	19.0
306629 2000 QA_{171}	16.9	X	37.05331	28.55128	326.44388	9.42042	0.1595116	0.30555691	2.1831051	20	—	—
306630 2000 QF_{178}	16.3	X	343.37822	352.46060	317.10593	14.27947	0.1437886	0.24473906	2.5312431	20	7 31.4	18.5
306631 2000 QO_{216}	17.3	X	293.80029	235.67737	84.22507	1.82409	0.1819779	0.28776396	2.2721925	20	5 6.5	19.8
306632 2000 QW_{226}	16.4	X	218.70992	93.75669	275.81375	9.20563	0.1393364	0.28369203	2.2938831	20	4 16.4	20.0
306633 2000 RT_{107}	17.0	X	140.74878	312.07044	91.38345	8.34510	0.2411448	0.27325953	2.3519017	20	3 30.9	20.8
306634 2000 SO_{15}	15.7	X	279.99993	44.07387	306.93796	8.72690	0.0777831	0.18817085	3.0160218	20	6 16.4	19.9
306635 2000 SP_{16}	16.1	X	1.63752	143.92041	242.39663	8.51900	0.1321885	0.25310115	2.4751791	20	12 25.4	19.0
306636 2000 SS_{17}	16.7	X	280.38237	90.94747	201.41020	6.70386	0.1011286	0.28119303	2.3074538	20	3 21.3	19.8
306637 2000 SJ_{21}	17.2	X	35.21601	117.04300	355.04100	20.31320	0.0880579	0.36974775	1.9224971	20	—	—
306638 2000 SF_{30}	16.6	X	294.57438	237.33029	177.51988	7.23306	0.2214780	0.24650170	2.5191620	20	9 20.6	18.7
306639 2000 SU_{30}	17.0	X	250.60280	278.30240	18.42890	7.39205	0.1197150	0.27807726	2.3246580	20	2 23.5	20.3
306640 2000 SJ_{31}	17.1	X	292.25697	235.22027	184.50034	7.58700	0.2601144	0.24615305	2.5215402	20	9 15.5	19.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
306641 2000 SS_{41}	17.1	X	165.59238	16.03024	29.21372	10.73084	0.1952607	0.27705370	2.3303800	20	4 16.8	20.8
306642 2000 SP_{42}	16.2	X	242.11808	25.83487	53.87572	10.22976	0.4604488	0.23627751	2.5913205	20	7 16.4	21.0
306643 2000 SU_{48}	16.5	X	155.80195	153.40007	279.49302	6.10312	0.1027948	0.28150312	2.3057590	20	5 6.3	19.8
306644 2000 SM_{56}	15.9	X	0.85558	347.18228	353.84850	4.83023	0.1125844	0.19811447	2.9142396	20	10 6.1	19.4
306645 2000 SO_{64}	17.3	X	151.23258	294.98664	101.00365	2.63730	0.2315315	0.27404147	2.3474257	20	3 26.9	21.0
306646 2000 SC_{65}	16.7	X	293.92969	272.23787	37.33829	1.76468	0.3781579	0.18891014	3.0081481	20	3 30.0	21.3
306647 2000 SO_{93}	17.2	X	251.74827	94.79940	287.86580	5.84997	0.1500148	0.28798915	2.2710078	20	6 13.4	20.1
306648 2000 SH_{99}	15.7	X	36.12822	152.34971	199.39424	14.77675	0.1496747	0.20356014	2.8620303	20	12 17.4	19.9
306649 2000 SR_{116}	17.3	X	97.24194	174.76034	189.00293	10.17835	0.2414071	0.26281690	2.4137958	20	—	—
306650 2000 SP_{135}	16.0	X	296.98857	359.09371	344.91802	14.72265	0.1218384	0.23906599	2.5711309	20	6 27.9	19.4
306651 2000 SW_{136}	16.4	X	300.93553	73.38845	334.56119	14.83235	0.0994651	0.24599159	2.5226435	20	10 1.1	19.4
306652 2000 SJ_{137}	15.8	X	196.64532	122.17132	228.24364	14.18249	0.1626058	0.22539143	2.6741008	20	3 4.1	20.4
306653 2000 SU_{138}	17.2	X	158.70418	98.61913	287.26700	1.78911	0.2336892	0.27403623	2.3474557	20	3 18.5	21.1
306654 2000 SL_{149}	17.5	X	161.97068	205.46662	170.73753	1.16062	0.2026720	0.27299439	2.3534243	20	3 8.4	21.2
306655 2000 SS_{153}	16.1	X	340.89759	258.81135	112.57838	1.51538	0.1464449	0.24666793	2.5180301	20	10 29.9	18.3
306656 2000 SL_{189}	16.3	X	198.47329	161.93902	213.84464	12.87940	0.1846451	0.22837845	2.6507329	20	4 9.2	20.8
306657 2000 ST_{189}	16.7	X	154.87016	12.39020	23.34942	10.39250	0.1711615	0.27386897	2.3484113	20	3 26.4	20.2
306658 2000 SE_{195}	16.5	X	49.80674	224.12086	178.13620	13.59050	0.1988794	0.21142610	2.7905961	20	—	—
306659 2000 ST_{216}	16.2	X	0.76407	316.60282	142.41946	7.64822	0.4210798	0.25611686	2.4557111	20	—	—
306660 2000 SS_{224}	15.8	X	272.11419	161.32080	197.10677	10.15822	0.1108663	0.18694008	3.0292452	20	6 10.9	20.2
306661 2000 SF_{229}	17.7	X	162.91490	127.02893	218.54816	2.00103	0.2239013	0.27037828	2.3685807	20	2 1.6	21.3
306662 2000 SZ_{238}	16.0	X	335.60596	259.07428	55.91828	12.21658	0.2908767	0.24182489	2.5515381	20	7 10.4	17.7
306663 2000 SM_{261}	16.4	X	272.47972	249.53392	50.26718	7.97083	0.1237411	0.27935519	2.3175630	20	3 23.7	19.5
306664 2000 SP_{266}	17.7	X	196.84492	185.25753	143.93935	4.44192	0.3124193	0.27443154	2.3452008	20	2 11.4	21.8
306665 2000 SO_{277}	16.8	X	268.01493	5.69741	279.77647	6.38981	0.4104006	0.28115599	2.3076565	20	1 30.9	21.2
306666 2000 SW_{283}	17.0	X	145.28050	170.67451	219.16345	5.57285	0.1129852	0.27379140	2.3488548	20	2 27.6	20.3
306667 2000 SL_{299}	16.2	X	292.40075	183.25135	236.84019	4.55109	0.1259462	0.24660054	2.5184889	20	10 6.4	19.0
306668 2000 SW_{324}	16.3	X	229.66904	97.58047	30.46317	2.79708	0.0743005	0.24698316	2.5158871	20	10 17.0	19.7
306669 2000 SQ_{336}	15.0	X	216.54105	20.88029	38.24472	17.89911	0.1291443	0.18237695	3.0795653	20	6 20.7	20.1
306670 2000 SO_{360}	16.3	X	227.54297	250.29862	110.89956	8.72852	0.2141345	0.28043417	2.3116146	20	4 18.4	20.2
306671 2000 TP_{5}	16.0	X	303.44632	326.63777	14.45754	10.53957	0.1106561	0.18948257	3.0020865	20	7 2.6	20.0
306672 2000 TR_{7}	16.7	X	330.41519	92.54513	349.11615	1.14747	0.1505721	0.25434595	2.4670966	20	—	—
306673 2000 TL_{14}	16.5	X	230.53396	329.38563	57.92895	2.85257	0.2526871	0.18284720	3.0742829	20	5 18.8	21.7
306674 2000 TR_{18}	16.1	X	359.32272	326.51967	28.76388	5.45034	0.0711334	0.24675563	2.5174335	20	10 30.4	18.9
306675 2000 TF_{33}	15.1	X	199.99874	89.68303	315.67229	19.29475	0.2610862	0.17903666	3.1177509	20	5 10.9	21.0
306676 2000 TF_{37}	17.0	X	172.23713	313.32197	48.44984	7.25341	0.2658500	0.27523923	2.3406105	20	3 5.9	21.1
306677 2000 TX_{62}	16.3	X	43.12016	280.00595	91.08584	4.30518	0.2401666	0.25519508	2.4616210	20	—	—
306678 2000 UK	15.4	X	51.19378	94.59202	347.86708	28.71732	0.4096653	0.21103521	2.7940410	20	2 26.9	17.6
306679 2000 UO_{11}	16.7	X	145.03105	276.76265	60.87747	13.31051	0.3105002	0.26870345	2.3784127	20	1 17.5	20.7
306680 2000 UP_{11}	16.1	X	180.70202	310.69822	79.06658	24.15908	0.2777510	0.27640250	2.3340388	20	4 23.9	20.7
306681 2000 US_{13}	17.4	X	166.16735	170.55139	210.18863	5.46746	0.2459462	0.27349460	2.3505539	20	3 18.6	21.4
306682 2000 UN_{14}	16.6	X	169.23697	101.45318	301.94372	5.59819	0.1085796	0.27646975	2.3336603	20	4 10.8	20.2
306683 2000 UT_{15}	17.6	X	149.02983	171.48098	243.11667	0.75265	0.1586066	0.27490713	2.3424952	20	4 10.4	21.2
306684 2000 UC_{18}	16.1	X	327.34462	294.10103	79.91646	6.91874	0.1143557	0.24451595	2.5327827	20	10 9.2	18.8
306685 2000 UM_{28}	16.2	X	319.54572	358.80589	54.23146	8.42396	0.1042997	0.24771588	2.5109235	20	11 17.3	18.5
306686 2000 UX_{41}	17.3	X	155.64110	340.23822	48.04665	2.90540	0.1870505	0.27205716	2.3588262	20	3 17.9	20.9
306687 2000 UE_{43}	17.7	X	182.91690	278.00180	66.27612	4.11934	0.2719831	0.27218374	2.3580948	20	2 20.7	21.9
306688 2000 UO_{62}	16.0	X	232.81593	106.00793	300.34801	4.00140	0.2931496	0.18335891	3.0685606	20	6 9.4	21.4
306689 2000 UK_{84}	16.2	X	217.95396	193.12087	179.28005	3.87221	0.1914536	0.17932606	3.1143956	20	4 25.2	21.3
306690 2000 UU_{90}	15.6	X	52.24664	316.32748	352.23181	2.42305	0.0589189	0.24613783	2.5216442	20	11 9.0	18.8
306691 2000 UO_{94}	16.6	X	273.47334	91.93145	336.79962	4.99633	0.1782226	0.24223104	2.5486851	20	9 9.0	19.4
306692 2000 UN_{97}	16.2	X	303.29263	171.92892	240.92843	14.44527	0.2035330	0.24446735	2.5331183	20	10 2.9	18.8
306693 2000 UU_{99}	16.6	X	306.21283	125.02570	277.20315	3.24191	0.1813837	0.24363388	2.5388922	20	9 28.7	18.9
306694 2000 UR_{105}	17.0	X	305.43410	264.35991	129.09265	6.05304	0.2444502	0.24384373	2.5374354	20	9 8.6	19.0
306695 2000 VL_{1}	15.4	X	160.55507	54.57501	93.19184	30.63143	0.4524676	0.22731420	2.6590000	20	8 27.3	21.3
306696 2000 VX_{1}	17.9	X	10.89364	108.58749	47.76519	21.64897	0.0601681	0.36879005	1.9258240	20	1 14.9	20.1
306697 2000 VY_{8}	15.7	X	248.18426	164.23941	210.65928	7.30826	0.2516506	0.18339647	3.0681416	20	5 19.6	20.8
306698 2000 VE_{20}	17.4	X	181.50495	332.60416	89.73306	2.14715	0.1843251	0.27913040	2.3188071	20	5 22.9	20.9
306699 2000 VG_{26}	16.0	X	231.53525	346.33191	58.07097	4.10116	0.2199332	0.18227934	3.0806646	20	6 11.4	20.9
306700 2000 VB_{41}	16.6	X	211.86140	127.12070	277.73565	5.59866	0.2707623	0.18134051	3.0912882	20	5 23.8	22.0
306701 2000 VC_{43}	16.6	X	302.64956	51.46652	16.90737	4.46082	0.2279274	0.24602046	2.5224461	20	10 28.5	18.4
306702 2000 VQ_{52}	16.6	X	290.92702	29.06653	24.16661	6.86212	0.2336388	0.24257198	2.5462964	20	9 10.7	19.1
306703 2000 WT	16.3	X	162.71562	92.99445	327.04032	20.90561	0.2960197	0.27508238	2.3415002	20	4 26.4	21.0
306704 2000 WZ_{2}	16.9	X	216.45063	236.44616	263.48308	24.22193	0.0216277	0.39435949	1.8416532	20	11 27.4	18.5
306705 2000 WK_{3}	16.0	X	206.88670	35.45548	311.26839	23.45923	0.2467693	0.27509647	2.3414202	20	2 29.1	20.4
306706 2000 WP_{10}	17.5	X	145.28641	301.83063	75.14513	3.26613	0.2148038	0.26770745	2.3843083	20	2 26.0	21.1
306707 2000 WW_{11}	17.6	X	152.75120	327.70220	82.36376	3.25279	0.2026823	0.27549369	2.3391691	20	4 13.0	21.2
306708 2000 WC_{13}	16.9	X	242.04226	314.59506	251.27605	22.24807	0.0297605	0.35633958	1.9704254	20	—	—
306709 2000 WH_{14}	15.9	X	354.55727	60.81893	318.91221	3.28427	0.0658651	0.24609376	2.5219452	20	11 24.4	19.0
306710 2000 WE_{21}	17.7	X	29.65307	56.16802	83.54842	4.52804	0.1343905	0.26395043	2.4068802	20	2 11.5	19.8
306711 2000 WY_{27}	16.6	X	291.73659	281.17191	49.72059	4.45909	0.2271307	0.18459616	3.0548339	20	5 13.8	20.6
306712 2000 WQ_{29}	15.4	X	151.49490	233.89573	247.88710	25.76178	0.3478652	0.17453578	3.1711228	20	7 7.3	21.6
306713 2000 WA_{35}	15.2	X	158.24391	335.71039	87.17263	28.32208	0.1456908	0.17272410	3.1932585	20	5 13.4	20.7
306714 2000 WM_{35}	16.0	X	340.47698	221.83598	181.37743	6.17376	0.1804207	0.24700814	2.5157175	20	12 18.0	18.4
306715 2000 WY_{50}	14.4	X	26.39953	293.19402	240.29800	27.78019	0.4303843	0.21407543	2.7675246	20	5 8.1	15.9
306716 2000 WT_{52}	15.6	X	254.16493	127.08485	243.21993	9.14753	0.0866037	0.18058377	3.0999182	20	6 7.0	20.1
306717 2000 WB_{68}	16.8	X	139.96619	173.23182	244.65189	6.61199	0.0847860	0.27137349	2.3627862	20	3 25.9	20.1
306718 2000 WW_{71}	16.5	X	309.79592	90.09149	313.74610	4.46883	0.1509355	0.24440631	2.5335400	20	10 11.2	19.0
306719 2000 WK_{74}	16.7	X	198.23756	62.59167	285.29657	5.81567	0.1299676	0.27264289	2.3554466	20	3 1.1	20.4
306720 2000 WX_{86}	16.8	X	138.94047	114.69590	273.59938	4.40242	0.1575623	0.26767979	2.3844725	20	2 24.4	20.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
306721 2000 WA_{94}	15.9	X	269.55183	103.69865	253.17113	13.04303	0.1604940	0.23167619	2.6255187	20	5 29.1	19.6
306722 2000 WF_{107}	16.0	X	301.79961	276.66417	108.55883	27.36047	0.3967112	0.24238371	2.5476148	20	7 15.6	18.4
306723 2000 WS_{107}	16.4	X	281.21379	80.29388	350.98312	4.08295	0.2448155	0.24255911	2.5463865	20	9 14.6	19.1
306724 2000 WR_{122}	16.9	X	112.78799	162.21643	265.15987	4.49480	0.2124150	0.26800972	2.3825152	20	3 23.5	20.2
306725 2000 WH_{124}	17.3	X	140.80142	235.32856	264.01798	19.43250	0.0496630	0.38360848	1.8759039	20	7 19.6	19.5
306726 2000 WK_{125}	15.8	X	224.91886	130.02400	273.48708	12.38181	0.2526723	0.18248818	3.0783138	20	6 2.5	21.0
306727 2000 WU_{148}	15.6	X	203.05878	327.27454	98.21138	13.30087	0.1821494	0.17996592	3.1070092	20	6 15.2	20.7
306728 2000 WD_{151}	17.0	X	292.02242	51.34729	70.51077	24.68788	0.0957057	0.34871932	1.9990272	20	—	—
306729 2000 WX_{153}	15.4	X	106.12386	88.15319	283.62499	12.29110	0.2535295	0.21430822	2.7655202	20	1 18.4	19.2
306730 2000 WX_{159}	16.7	X	219.85172	282.17353	80.42015	7.37184	0.1392976	0.27711633	2.3300289	20	4 16.1	20.2
306731 2000 WG_{164}	17.2	X	198.27176	151.35696	249.61173	19.91938	0.0712385	0.37794261	1.8946056	20	5 9.4	19.5
306732 2000 WB_{166}	15.6	X	199.93679	335.76181	77.77416	10.80113	0.0853147	0.17865754	3.1221599	20	6 1.3	20.2
306733 2000 WH_{167}	17.0	X	258.42662	232.80032	195.01711	5.46361	0.2486847	0.23890839	2.5722615	20	8 5.0	20.7
306734 2000 WX_{173}	16.8	X	147.24173	273.85927	101.06169	8.43950	0.1873348	0.26944264	2.3740608	20	2 23.9	20.4
306735 2000 WY_{185}	15.9	X	336.12953	294.16819	99.31213	7.77277	0.2505913	0.24456644	2.5324340	20	12 2.3	17.8
306736 2000 WP_{186}	15.0	X	161.13087	258.52893	272.90563	23.14974	0.3497690	0.18022405	3.1040417	20	9 1.9	21.3
306737 2000 XT_{2}	15.5	X	59.34398	32.97859	306.39966	10.57465	0.1833257	0.25331672	2.4737747	20	—	—
306738 2000 XE_{3}	16.1	X	279.82993	125.37077	289.62513	11.46154	0.1899348	0.24103746	2.5570920	20	8 23.7	19.3
306739 2000 XU_{16}	15.0	X	230.30859	81.36703	280.34315	14.62381	0.2709872	0.17762760	3.1342171	20	4 11.5	20.7
306740 2000 XY_{27}	16.1	X	295.11437	116.34941	311.62851	9.22255	0.1681085	0.24215566	2.5492140	20	10 12.6	18.9
306741 2000 XV_{28}	16.1	X	315.94276	32.91029	17.59559	5.69226	0.2166182	0.24340563	2.5404791	20	11 1.8	18.0
306742 2000 XV_{32}	15.2	X	179.55160	204.12627	301.43371	19.76246	0.1777261	0.18328786	3.0693536	20	8 23.3	20.5
306743 2000 XU_{36}	15.3	X	199.94367	93.57928	340.78114	14.27157	0.2780814	0.17895305	3.1187219	20	6 19.8	21.1
306744 2000 XR_{43}	15.8	X	328.46872	2.10728	25.89367	14.18548	0.1761774	0.24263877	2.5458292	20	10 26.9	18.1
306745 2000 XY_{46}	15.0	X	202.63127	70.02639	348.58754	16.22703	0.2510678	0.17648821	3.1476921	20	5 31.3	20.7
306746 2000 XM_{47}	16.5	X	335.85048	3.66800	0.76032	10.94095	0.2907041	0.24455755	2.5324954	20	10 12.0	17.8
306747 2000 XW_{47}	16.6	X	270.55238	143.08981	283.35440	11.13907	0.1620919	0.24009705	2.5637647	20	8 29.3	19.9
306748 2000 XU_{50}	15.4	X	20.88692	321.34174	31.65519	14.07871	0.1546213	0.24715335	2.5147320	20	12 8.8	18.7
306749 2000 YS_{2}	17.8	X	135.03017	73.61811	44.26580	5.95124	0.2526683	0.32476932	2.0961357	20	6 26.5	21.2
306750 2000 YB_{3}	17.1	X	100.28275	16.65969	73.16184	3.44367	0.1826113	0.26836596	2.3804063	20	4 7.3	20.1
306751 2000 YH_{9}	16.9	X	314.14855	252.89888	293.91089	7.11958	0.1759859	0.25522873	2.4614046	20	—	—
306752 2000 YN_{12}	16.1	X	288.01876	131.97719	282.30475	4.97504	0.1695595	0.23935658	2.5690495	20	9 11.1	19.0
306753 2000 YM_{25}	13.5	X	207.02656	232.17549	265.09187	6.14321	0.0128240	0.08464130	5.1374528	20	9 12.2	20.4
306754 2000 YS_{35}	15.7	X	286.15385	289.33857	124.78933	6.22635	0.2480637	0.23983180	2.5656547	20	8 29.7	18.3
306755 2000 YC_{56}	16.4	X	123.70472	139.52929	271.81465	6.53810	0.1244403	0.26557211	2.3970720	20	3 2.5	19.7
306756 2000 YR_{72}	17.1	X	169.50193	140.36365	276.29256	3.92869	0.2219155	0.27517571	2.3409708	20	5 4.4	21.0
306757 2000 YA_{81}	16.0	X	151.64632	79.50267	92.68699	22.78482	0.2011858	0.28446250	2.2897393	20	9 29.1	20.3
306758 2000 YM_{81}	16.0	X	15.58708	248.04560	119.85903	2.94137	0.1581051	0.24724933	2.5140812	20	12 24.1	19.0
306759 2000 YX_{97}	16.2	X	271.60120	155.39328	290.18952	5.08204	0.3147707	0.23975370	2.5662118	20	9 4.4	19.5
306760 2000 YM_{109}	16.6	X	79.22555	155.60915	316.73086	4.01222	0.0943613	0.26585512	2.3953705	20	3 22.0	19.3
306761 2000 YR_{125}	16.1	X	339.97067	66.67707	331.07914	13.68787	0.1893663	0.24320665	2.5418646	20	12 6.7	18.9
306762 2001 AE_{5}	15.6	X	346.29240	249.56045	148.79258	5.33103	0.2364950	0.24461558	2.5320949	20	12 29.2	17.9
306763 2001 AS_{16}	15.4	X	339.04253	285.16506	120.90776	7.02122	0.2824398	0.24448920	2.5329674	20	—	—
306764 2001 AV_{22}	16.1	X	321.54133	358.79002	49.23614	4.68951	0.1959985	0.24324108	2.5416248	20	11 13.2	18.1
306765 2001 AL_{23}	16.5	X	306.09850	169.56436	263.26603	3.00763	0.2588853	0.24310642	2.5425632	20	11 9.7	18.1
306766 2001 AW_{25}	15.2	X	190.34179	46.17967	15.97891	23.68849	0.3272509	0.17425636	3.1745118	20	5 21.1	21.3
306767 2001 AE_{46}	17.0	X	87.01547	35.54664	355.77147	18.92728	0.0953331	0.35788328	1.9647552	20	—	—
306768 2001 AX_{51}	15.5	X	240.26312	190.51030	241.87103	11.70298	0.1157701	0.23561351	2.5961867	20	8 4.3	19.4
306769 2001 BX_{2}	16.3	X	294.65832	336.72299	29.74424	10.75387	0.4053918	0.28616284	2.2806600	20	6 3.9	19.1
306770 2001 BU_{4}	16.4	X	245.11616	132.53310	52.42736	4.71515	0.2297400	0.24278574	2.5448016	20	12 26.5	19.6
306771 2001 BS_{27}	15.0	X	126.04902	278.88436	307.06128	15.15880	0.1963349	0.18109246	3.0941104	20	10 11.9	20.5
306772 2001 CY_{1}	15.6	X	316.79154	48.10682	0.95844	5.06911	0.3525873	0.24121350	2.5558477	20	10 23.1	16.4
306773 2001 CJ_{44}	14.9	X	114.00152	115.62259	79.69364	15.26332	0.2255311	0.17364611	3.1819451	20	9 12.4	20.4
306774 2001 DP_{24}	15.3	X	147.10734	325.73194	341.57541	6.72178	0.1005391	0.24713041	2.5148877	20	—	—
306775 2001 DP_{72}	17.3	X	120.35370	298.11553	157.06887	1.77250	0.1490602	0.26664667	2.3906277	20	5 3.4	20.5
306776 2001 DD_{77}	16.3	X	314.94744	63.86110	10.39126	28.43885	0.3427213	0.24207155	2.5498045	20	11 20.9	18.4
306777 2001 DU_{90}	16.6	X	127.43500	247.87162	345.49983	6.80965	0.2431921	0.28034686	2.3120945	20	11 9.2	20.6
306778 2001 DF_{92}	16.1	X	156.78015	87.37658	350.83282	22.22063	0.4175254	0.22065372	2.7122427	20	5 21.7	21.8
306779 2001 FR_{28}	16.2	X	290.33835	85.73971	33.61815	7.51690	0.2477368	0.24131654	2.5551201	20	12 13.6	18.3
306780 2001 FU_{77}	16.7	X	37.13325	91.14341	102.88100	4.63156	0.2448747	0.26205279	2.4184857	20	6 5.9	18.6
306781 2001 FQ_{81}	14.7	X	80.88343	48.52444	318.04779	13.08777	0.2093010	0.24410901	2.5355967	20	—	—
306782 2001 FR_{92}	15.4	X	7.69148	117.01742	26.88081	15.41084	0.0940689	0.20263628	2.8707227	20	1 27.9	19.2
306783 2001 FK_{93}	15.2	X	105.08160	293.59297	42.59921	8.58931	0.1900194	0.24261234	2.5460140	20	—	—
306784 2001 FD_{102}	16.6	X	191.50931	358.26212	195.45051	13.89148	0.1866570	0.23458213	2.6037909	20	11 13.6	20.8
306785 2001 FH_{222}	17.4	X	114.04701	217.31593	112.28278	0.41025	0.1410243	0.24140983	2.5544618	20	—	—
306786 2001 GL_{3}	16.4	X	142.73111	141.75000	90.25313	23.86864	0.2029298	0.27987990	2.3146655	20	11 27.3	20.4
306787 2001 HS_{8}	15.8	X	342.15451	12.09306	216.47042	22.96137	0.4516154	0.20480453	2.8504254	20	1 29.6	19.5
306788 2001 HV_{24}	17.6	X	40.21774	236.73784	60.94670	3.68325	0.2541831	0.32331176	2.1024308	20	11 23.9	20.3
306789 2001 JJ_{8}	16.2	X	79.31424	84.63793	224.39992	13.46398	0.2932646	0.22543757	2.6737359	20	12 27.7	21.0
306790 2001 KB_{1}	14.7	X	116.03443	88.06505	245.73479	26.41241	0.4085998	0.23033686	2.6356865	20	—	—
306791 2001 KJ_{3}	16.7	X	173.96757	13.76587	232.84651	13.32077	0.2662252	0.23346354	2.6121013	20	12 23.4	21.4
306792 2001 KQ_{77}	7.2	X	333.38379	63.52981	248.43571	15.58344	0.1633679	0.00391458	39.8730491	20	6 25.6	22.6
306793 2001 MH_{17}	15.7	X	49.74462	192.13245	100.72898	17.84944	0.1800055	0.21509281	2.7587909	20	11 5.9	19.8
306794 2001 MO_{21}	16.1	X	29.59901	268.33284	92.83089	10.30804	0.1525594	0.22006316	2.7170929	20	12 25.8	19.7
306795 2001 OQ_{50}	15.2	X	108.30470	59.09144	316.07561	16.45024	0.4034708	0.22729923	2.6591168	20	2 11.2	19.2
306796 2001 OX_{74}	17.7	X	265.79155	60.48897	286.19681	6.00506	0.2186267	0.30317099	2.1945440	20	4 28.9	20.9
306797 2001 ON_{93}	16.5	X	135.37351	343.05045	343.37940	6.74505	0.2305787	0.23035524	2.6355463	20	—	—
306798 2001 OW_{94}	16.4	X	129.17814	9.24682	16.90632	9.10674	0.4097845	0.22918226	2.6445313	20	3 14.6	21.1
306799 2001 PK_{31}	16.2	X	357.73870	92.47753	252.33056	11.81601	0.1625865	0.21095349	2.7947625	20	10 10.0	19.4
306800 2001 PG_{44}	16.7	X	99.84738	66.92874	312.02123	6.59644	0.1869819	0.28229604	2.3014393	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
306801 2001 QL_{20}	15.2	X	144.23009	15.22144	347.91860	9.28306	0.2527309	0.18102076	3.0949273	20	2 19.3	20.4
306802 2001 QC_{50}	14.3	X	127.98081	6.79665	334.82486	14.98690	0.2341968	0.12403254	3.9821013	20	1 18.9	20.6
306803 2001 QQ_{61}	17.5	X	331.19890	14.85894	312.41232	3.22942	0.2459107	0.25801541	2.4436497	20	7 26.1	18.9
306804 2001 QT_{62}	16.9	X	11.68453	196.17177	168.33302	2.50046	0.2051808	0.26673285	2.3901127	20	12 27.2	19.5
306805 2001 QO_{65}	15.1	X	116.61747	248.84269	166.61030	28.13526	0.4183752	0.23213948	2.6220243	20	4 10.9	19.9
306806 2001 QQ_{86}	15.7	X	243.88757	88.18930	290.22721	11.75637	0.1221597	0.24783976	2.5100868	20	5 31.5	19.4
306807 2001 QR_{101}	16.1	X	210.61416	332.12336	347.35645	14.14505	0.1525695	0.23752954	2.5822064	20	2 15.9	20.3
306808 2001 QL_{105}	16.6	X	210.10449	118.54184	224.78961	10.82823	0.1783604	0.24015895	2.5633242	20	3 7.4	21.0
306809 2001 QG_{128}	16.1	X	238.50205	57.24005	295.16792	9.24239	0.1432795	0.24756750	2.5119267	20	4 15.1	20.1
306810 2001 QE_{133}	15.0	X	127.83459	89.08120	302.01855	14.30986	0.2249753	0.18191576	3.0847679	20	2 28.1	20.1
306811 2001 QV_{147}	15.1	X	91.73415	181.32819	125.58478	15.02517	0.4119216	0.21923329	2.7239453	20	—	—
306812 2001 QA_{151}	15.6	X	18.62305	73.05042	262.53312	23.91841	0.1494005	0.21120833	2.7925140	20	11 1.1	19.4
306813 2001 QZ_{161}	17.1	X	124.28016	1.74105	348.44136	6.62060	0.1421508	0.28271063	2.2991887	20	—	—
306814 2001 QS_{175}	17.0	X	352.89646	67.36553	306.57832	2.77235	0.1084811	0.21461758	2.7628619	20	11 9.8	20.2
306815 2001 QG_{193}	16.0	X	249.14299	62.83408	288.86669	10.07708	0.1513038	0.24635847	2.5201383	20	4 25.3	19.9
306816 2001 QK_{194}	16.6	X	156.95246	10.99855	317.03844	12.48553	0.2313446	0.28328631	2.2960728	20	1 7.2	20.1
306817 2001 QQ_{219}	16.3	X	181.25309	83.14580	283.60559	11.68368	0.2433715	0.23632665	2.5909613	20	3 10.7	21.1
306818 2001 QV_{221}	16.5	X	343.60449	151.94110	201.54342	8.78590	0.2306763	0.20992212	2.8039090	20	10 1.4	18.8
306819 2001 QM_{237}	17.7	X	249.56990	33.01199	357.85118	4.43907	0.2923768	0.30267147	2.1969578	20	6 4.4	21.0
306820 2001 QL_{257}	16.9	X	304.34880	153.25027	155.62060	7.14387	0.2272788	0.30307589	2.1950030	20	4 30.0	19.3
306821 2001 QU_{266}	15.7	X	222.98050	164.65829	185.26261	14.55785	0.0801723	0.24540318	2.5266743	20	4 5.5	19.3
306822 2001 QT_{294}	16.3	X	310.30828	144.28720	232.34434	7.52497	0.1636462	0.25981071	2.4323796	20	8 31.6	18.7
306823 2001 QQ_{330}	18.1	X	245.54663	359.88231	7.26979	5.27168	0.1965859	0.30019780	2.2090102	20	5 8.3	21.4
306824 2001 RB_{3}	16.1	X	131.58291	110.27580	273.15498	8.50844	0.2203153	0.23386800	2.6090887	20	2 19.3	20.3
306825 2001 RX_{13}	17.8	X	277.65384	201.89379	177.58461	3.36362	0.1139836	0.30717545	2.1754297	20	7 22.9	19.9
306826 2001 RZ_{17}	15.8	X	151.77655	94.03496	333.15681	27.93362	0.4120098	0.24097859	2.5575084	20	4 28.9	21.4
306827 2001 RL_{22}	15.3	X	90.82239	66.44103	342.27169	8.46913	0.1503605	0.17905270	3.1175646	20	2 7.3	19.5
306828 2001 RV_{31}	17.0	X	21.63635	108.44376	218.87722	4.60200	0.2321601	0.26607952	2.3940236	20	11 25.6	19.8
306829 2001 RM_{39}	15.9	X	22.56188	58.41428	259.77393	11.44440	0.1877299	0.21073173	2.7967228	20	10 20.8	19.4
306830 2001 RV_{50}	17.5	X	234.10265	26.44338	332.12042	7.22714	0.2279307	0.24565251	2.5249643	20	4 13.9	21.8
306831 2001 RH_{65}	16.0	X	243.81667	140.12791	252.42777	5.30189	0.2422071	0.19607073	2.9344556	20	6 6.4	20.7
306832 2001 RA_{133}	18.0	X	249.48367	246.83020	129.13220	4.53087	0.1900458	0.30201133	2.2001581	20	5 28.1	21.1
306833 2001 RJ_{143}	17.0	X	254.61579	345.28000	322.45933	8.70257	0.2593868	0.24353912	2.5395507	20	2 28.8	21.3
306834 2001 RZ_{150}	17.4	X	170.07222	329.99495	25.22557	5.78985	0.1973877	0.28821989	2.2697956	20	2 19.4	21.0
306835 2001 SE_{2}	17.2	X	306.61144	159.20877	219.46318	3.25551	0.2592812	0.20367861	2.8609203	20	8 5.8	20.3
306836 2001 SB_{16}	16.5	X	331.43130	259.92880	91.93104	0.24298	0.1761977	0.20574941	2.8416919	20	8 31.3	19.2
306837 2001 SL_{28}	16.0	X	300.85359	312.90159	16.49027	10.74168	0.1266912	0.19798329	2.9155267	20	6 7.8	20.0
306838 2001 SU_{28}	16.9	X	325.73778	39.26401	38.73555	1.75872	0.2629717	0.21265495	2.7798352	20	12 28.5	18.9
306839 2001 SG_{35}	17.9	X	232.48609	264.16076	123.40702	2.24511	0.2853312	0.29946056	2.2126342	20	5 17.9	21.6
306840 2001 SD_{46}	17.7	X	282.68960	192.75925	129.40664	3.41453	0.1952118	0.30080501	2.2060364	20	4 22.5	20.3
306841 2001 SL_{47}	16.4	X	204.98448	163.76388	132.45628	5.07736	0.2700454	0.23435712	2.6054572	20	1 12.4	21.0
306842 2001 SB_{49}	17.4	X	226.70464	316.08902	62.17002	2.45954	0.2234629	0.24493342	2.5299038	20	5 5.8	21.5
306843 2001 SB_{60}	17.1	X	315.80842	80.85027	261.62661	4.52074	0.1208433	0.30773392	2.1727969	20	8 2.0	18.8
306844 2001 SO_{69}	15.9	X	236.03083	240.49956	159.54054	6.10917	0.1386538	0.24600955	2.5225207	20	6 19.5	19.7
306845 2001 SB_{74}	16.5	X	177.18421	158.22488	231.27601	8.55521	0.1942791	0.23872530	2.5735765	20	4 6.6	20.9
306846 2001 ST_{78}	17.6	X	227.22044	210.89139	170.24109	3.18118	0.0880882	0.24698433	2.5158792	20	5 20.7	21.3
306847 2001 SH_{84}	15.8	X	344.27267	317.31859	334.24364	14.47058	0.1404290	0.20225378	2.8743410	20	7 3.1	19.2
306848 2001 SU_{93}	17.8	X	104.26482	190.25385	218.27133	2.51113	0.1921313	0.28439177	2.2901189	20	2 12.8	20.3
306849 2001 SO_{98}	16.0	X	280.92357	75.82674	353.18479	13.98131	0.0532271	0.20883731	2.8136106	20	10 1.3	19.7
306850 2001 SS_{119}	16.8	X	34.76101	101.82264	196.85125	12.50293	0.2072953	0.21051541	2.7986384	20	10 20.8	20.2
306851 2001 SC_{120}	16.9	X	70.16472	82.83814	210.34459	4.79114	0.2134813	0.26771635	2.3842555	20	12 4.1	20.6
306852 2001 SH_{134}	17.3	X	268.58541	343.16848	344.46257	6.69418	0.2074891	0.24703391	2.5155425	20	4 10.3	21.2
306853 2001 SB_{142}	17.2	X	217.26306	123.21828	319.66086	4.77796	0.1106168	0.30575579	2.1821583	20	8 2.0	19.9
306854 2001 SQ_{143}	15.5	X	162.85340	161.37257	193.01472	10.16838	0.1045817	0.18183972	3.0856279	20	2 11.2	20.3
306855 2001 SQ_{147}	17.2	X	276.04355	162.95869	215.25379	7.19882	0.1448390	0.30573727	2.1822464	20	7 11.5	19.6
306856 2001 SA_{163}	15.9	X	119.65529	178.26459	193.55418	13.47244	0.1745103	0.22835665	2.6509016	20	1 19.5	19.9
306857 2001 SR_{169}	15.8	X	182.99030	265.73658	12.40942	26.97520	0.4229581	0.23348931	2.6119091	20	—	—
306858 2001 SA_{185}	16.5	X	4.40629	352.18200	13.37582	1.05978	0.0850251	0.21386713	2.7693214	20	11 14.7	20.0
306859 2001 SG_{200}	16.6	X	335.96548	43.04070	5.37321	5.17887	0.1261870	0.21333549	2.7739203	20	11 28.6	19.7
306860 2001 SP_{215}	16.8	X	47.75556	16.58950	60.03934	5.52053	0.2032973	0.27807950	2.3246455	20	—	—
306861 2001 SL_{216}	16.3	X	305.93790	229.07173	161.55315	6.51713	0.0766139	0.20706057	2.8296829	20	9 17.5	19.9
306862 2001 SR_{223}	16.3	X	45.09030	306.30801	13.19177	5.28718	0.0423054	0.21090450	2.7951953	20	11 3.8	20.1
306863 2001 SB_{241}	17.4	X	204.19319	341.00545	78.52505	1.60526	0.1183063	0.24618308	2.5213352	20	6 11.9	21.0
306864 2001 SR_{249}	15.6	X	117.44877	230.11103	189.80953	9.14553	0.2234730	0.17912067	3.1167759	20	3 28.7	20.5
306865 2001 SS_{263}	15.6	X	91.45276	83.38429	341.92199	15.44921	0.4250346	0.22381194	2.6866672	20	3 26.3	19.7
306866 2001 SN_{268}	15.6	X	347.02085	129.57199	321.40008	8.39950	0.4218850	0.22004370	2.7172531	20	—	—
306867 2001 SC_{269}	18.0	X	284.87892	355.83142	15.39269	2.19318	0.1958687	0.25280301	2.4771248	20	7 4.7	20.9
306868 2001 SM_{272}	17.7	X	247.11949	274.82361	136.34725	3.54585	0.1541898	0.30529616	2.1843480	20	7 18.6	20.5
306869 2001 SH_{288}	17.7	X	306.73679	225.01546	91.35907	8.10295	0.3028337	0.30512203	2.1851789	20	5 1.9	19.9
306870 2001 SJ_{291}	16.6	X	22.00739	108.10904	279.47238	11.78416	0.2207261	0.26951963	2.3736086	20	—	—
306871 2001 SG_{317}	16.6	X	15.25200	308.78650	56.81476	7.17218	0.2069015	0.26613653	2.3936816	20	—	—
306872 2001 SV_{321}	16.5	X	245.27444	60.43576	276.52610	6.05752	0.1449588	0.24416674	2.5351970	20	4 3.8	20.4
306873 2001 SS_{327}	16.4	X	302.25961	319.23120	77.65523	3.14993	0.1678453	0.20586459	2.8406318	20	9 10.5	19.5
306874 2001 SE_{335}	17.0	X	335.74326	48.00788	323.26210	3.84098	0.1369013	0.21001107	2.8031172	20	10 6.7	20.1
306875 2001 SX_{338}	16.8	X	203.49508	343.53928	177.01117	3.63916	0.0339658	0.20931660	2.8093139	20	10 25.9	20.8
306876 2001 TE	15.9	X	348.72829	322.53818	25.34146	9.23921	0.4428797	0.26309071	2.4121207	20	12 4.4	17.6
306877 2001 TT_{5}	16.7	X	310.08813	271.75281	106.57749	5.60539	0.1190729	0.25872572	2.4391751	20	9 14.8	19.2
306878 2001 TN_{14}	17.3	X	265.65122	45.48088	327.38969	4.48605	0.1360778	0.30226841	2.1989105	20	6 20.4	19.8
306879 2001 TY_{15}	16.9	X	322.75637	319.37473	71.67168	7.50299	0.1503491	0.26042246	2.4285689	20	10 29.0	19.0
306880 2001 TL_{23}	17.3	X	255.56845	241.69635	205.87135	7.71559	0.2393114	0.20300095	2.8672837	20	8 24.6	21.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
306881 2001 TY_{24}	17.2	X	72.56549	62.85924	336.26741	4.41118	0.1409632	0.27711242	2.3300508	20	—	—
306882 2001 TB_{34}	16.1	X	105.05925	192.35360	246.37712	12.34966	0.2125266	0.23029410	2.6360128	20	3 29.9	20.1
306883 2001 TK_{38}	15.8	X	247.38773	48.24822	329.08733	6.34312	0.2450074	0.24430362	2.5342500	20	5 19.4	20.0
306884 2001 TZ_{49}	15.6	X	122.96124	54.36761	19.75033	14.62552	0.3045068	0.18161549	3.0881671	20	4 24.3	20.8
306885 2001 TO_{50}	16.7	X	256.22636	327.36691	18.33219	18.14496	0.1650501	0.24627163	2.5207308	20	4 23.9	20.5
306886 2001 TC_{63}	18.1	X	268.30627	233.65064	114.59729	1.61410	0.2482996	0.30055031	2.2072825	20	5 3.3	21.0
306887 2001 TU_{63}	16.4	X	236.53762	174.89658	222.50180	4.80850	0.1553367	0.24699161	2.5158298	20	6 14.5	20.1
306888 2001 TH_{92}	17.4	X	188.31865	23.73132	338.63639	3.24971	0.1939582	0.23760755	2.5816413	20	3 15.6	21.6
306889 2001 TF_{97}	16.4	X	282.84130	166.48535	242.76684	3.84704	0.1817003	0.25498330	2.4629838	20	8 26.9	19.2
306890 2001 TP_{97}	15.5	X	324.02848	356.48943	340.84532	6.83994	0.0992896	0.19926258	2.9030346	20	8 2.2	18.9
306891 2001 TA_{98}	17.2	X	33.05530	178.64110	237.22882	3.44565	0.2123783	0.27198489	2.3592440	20	—	—
306892 2001 TB_{104}	16.6	X	35.05679	73.98222	278.09915	5.25983	0.1495219	0.26592368	2.3949588	20	—	—
306893 2001 TB_{119}	15.8	X	200.27378	105.55001	262.16933	13.55634	0.1072410	0.23953085	2.5678033	20	3 26.9	20.0
306894 2001 TW_{121}	15.6	X	310.76209	136.06707	258.11440	14.20081	0.1407504	0.20498408	2.8487606	20	9 14.9	19.3
306895 2001 TT_{127}	16.4	X	48.56761	247.16652	243.24237	19.09311	0.2881308	0.28177229	2.3042903	20	3 10.2	18.5
306896 2001 TC_{146}	16.5	X	157.08283	186.57855	173.93434	9.85019	0.1116205	0.23231713	2.6206874	20	2 8.5	20.5
306897 2001 TD_{152}	15.7	X	233.58439	313.91557	61.46449	11.54550	0.0980919	0.19146913	2.9812853	20	5 19.7	20.2
306898 2001 TR_{160}	16.5	X	302.39242	163.34737	225.56492	7.49450	0.0283610	0.20182909	2.8783717	20	9 10.0	20.4
306899 2001 TJ_{161}	15.7	X	293.61914	294.88421	357.45045	9.92012	0.0887489	0.19191272	2.9766895	20	4 14.4	19.8
306900 2001 TG_{167}	15.9	X	198.74679	3.70516	359.21362	9.50605	0.2315705	0.23794052	2.5792322	20	3 24.7	20.3
306901 2001 TN_{167}	16.2	X	178.95071	105.92491	281.17704	9.68240	0.1403220	0.23661085	2.5888861	20	3 31.9	20.6
306902 2001 TV_{171}	16.6	X	177.22550	354.25681	307.66216	9.32251	0.1350357	0.28096777	2.3086869	20	—	—
306903 2001 TT_{172}	17.1	X	292.28226	261.15850	191.77584	2.03440	0.1324758	0.26345149	2.4099180	20	11 29.6	19.2
306904 2001 TT_{174}	15.5	X	197.44965	255.47120	54.00757	8.56822	0.4503540	0.18522373	3.0479298	20	1 30.1	21.7
306905 2001 TR_{176}	16.9	X	293.15756	307.14973	4.29342	2.11599	0.0818513	0.24486576	2.5303699	20	5 10.4	20.2
306906 2001 TO_{180}	17.6	X	203.11610	134.89368	276.85946	3.89319	0.2745369	0.24336005	2.5407963	20	5 25.4	22.1
306907 2001 TD_{181}	15.3	X	201.96764	307.35237	13.58823	10.95288	0.1334708	0.18073443	3.0981953	20	2 16.4	20.4
306908 2001 TG_{181}	15.3	X	215.86424	120.46275	227.60203	8.28521	0.0425428	0.18502197	3.0501453	20	3 29.0	19.9
306909 2001 TC_{198}	16.9	X	248.41800	75.32372	281.56508	3.24110	0.1245084	0.24638108	2.5199841	20	5 7.4	20.6
306910 2001 TC_{200}	17.8	X	256.14444	270.12485	87.18867	6.66083	0.2074679	0.30053266	2.2073690	20	5 8.6	21.0
306911 2001 TV_{208}	16.4	X	255.57747	342.09487	1.27991	15.42499	0.1472796	0.24513938	2.5284866	20	4 20.7	20.4
306912 2001 TZ_{216}	15.8	X	345.79197	182.58975	141.19237	9.57619	0.1575296	0.20112876	2.8850495	20	8 19.7	18.6
306913 2001 TA_{217}	16.3	X	261.25250	8.06026	348.49675	13.66001	0.0549376	0.24658960	2.5185633	20	5 30.4	20.0
306914 2001 TR_{226}	16.3	X	139.32056	238.84209	146.80061	14.20501	0.1945409	0.23287083	2.6165316	20	3 2.9	20.3
306915 2001 TM_{231}	16.3	X	204.84279	4.64332	42.88493	15.99844	0.1303160	0.24513392	2.5285242	20	5 24.7	20.3
306916 2001 TN_{241}	17.3	X	242.16123	336.42054	62.62574	3.21373	0.0848636	0.24745125	2.5127134	20	7 2.2	20.6
306917 2001 UW_{4}	18.8	X	43.53953	159.53333	333.71363	3.38902	0.0660726	0.49749456	1.5774072	20	—	—
306918 2001 UQ_{11}	17.1	X	143.56969	234.88460	55.86034	3.87287	0.5080135	0.22591793	2.6699446	20	—	—
306919 2001 UU_{17}	16.0	X	78.69062	284.16372	183.82204	27.81299	0.4016171	0.23305449	2.6151568	20	5 10.1	20.1
306920 2001 UV_{25}	16.9	X	73.80377	91.80894	302.41418	4.98584	0.2303209	0.27618552	2.3352611	20	—	—
306921 2001 UE_{29}	17.2	X	45.81687	68.91334	48.06342	8.73949	0.1921843	0.28138598	2.3063988	20	2 12.3	19.0
306922 2001 UL_{29}	16.4	X	251.63599	269.24867	54.81837	13.33476	0.1874251	0.24209914	2.5496107	20	3 30.8	20.5
306923 2001 UX_{31}	16.6	X	61.09684	252.59993	176.94456	11.46135	0.1770773	0.22528817	2.6749179	20	1 11.0	19.7
306924 2001 UW_{42}	16.8	X	337.84470	9.97159	83.09518	2.36193	0.1451058	0.26903818	2.3764396	20	—	—
306925 2001 UK_{44}	16.2	X	246.85930	240.31159	204.04779	9.40024	0.2069238	0.20005361	2.8953770	20	8 14.4	20.7
306926 2001 UB_{52}	16.0	X	238.03293	248.69260	145.33150	2.75324	0.0165574	0.24637353	2.5200357	20	6 28.9	19.3
306927 2001 UR_{56}	16.6	X	280.86630	38.96277	15.19104	5.06426	0.1140738	0.20367423	2.8609613	20	9 6.8	20.3
306928 2001 UC_{61}	17.2	X	149.73093	59.52743	4.55386	2.76418	0.2011288	0.23786730	2.5797615	20	4 27.1	21.4
306929 2001 UG_{79}	17.1	X	228.24373	154.31765	207.83893	10.23841	0.1817980	0.24226241	2.5484651	20	4 19.5	21.2
306930 2001 UA_{81}	16.4	X	289.40069	305.54241	46.52721	7.06498	0.2368507	0.19725930	2.9226562	20	6 5.1	20.3
306931 2001 UQ_{87}	16.2	X	254.40053	238.01124	251.63972	3.63670	0.0718978	0.21112237	2.7932719	20	11 13.0	19.9
306932 2001 UM_{89}	15.2	X	177.64559	228.24262	135.57325	11.37311	0.2146042	0.18300833	3.0724782	20	3 15.8	20.5
306933 2001 UT_{90}	17.2	X	20.74352	244.64146	45.72102	3.34895	0.1006159	0.30877172	2.1679256	20	9 19.7	19.2
306934 2001 UB_{95}	16.0	X	215.09330	323.49848	16.79753	9.46248	0.2406391	0.18566090	3.0431434	20	3 15.9	21.3
306935 2001 UK_{99}	16.1	X	71.58139	142.68729	50.13930	7.15089	0.0528066	0.24528188	2.5275072	20	6 29.2	19.4
306936 2001 US_{100}	15.6	X	234.61951	314.65393	19.12497	11.02200	0.1062252	0.18952065	3.0016843	20	3 30.8	20.2
306937 2001 UM_{103}	17.2	X	128.27267	82.86359	52.91365	6.09206	0.0365801	0.29914224	2.2142036	20	6 26.1	19.9
306938 2001 UC_{108}	15.8	X	224.15930	344.48285	57.04744	11.40762	0.1145117	0.19133801	2.9826471	20	6 8.7	20.5
306939 2001 UW_{108}	16.2	X	282.71152	156.11640	200.43968	5.88638	0.0760824	0.24626850	2.5207521	20	6 29.2	19.5
306940 2001 UL_{110}	18.0	X	248.76475	308.90088	64.65666	4.05715	0.1458809	0.29985986	2.2106695	20	5 28.3	20.9
306941 2001 UH_{111}	17.8	X	40.68931	61.37344	307.67559	2.92413	0.1934057	0.32122408	2.1115303	20	—	—
306942 2001 UP_{130}	17.3	X	332.34978	262.19265	54.63942	3.73960	0.1586241	0.30491496	2.1861681	20	7 25.4	18.7
306943 2001 UR_{131}	16.5	X	338.05804	279.28186	52.36440	6.02390	0.1388559	0.25363145	2.4717278	20	8 28.0	18.9
306944 2001 UF_{135}	17.0	X	5.03966	326.75745	70.11423	5.48439	0.2198613	0.26563231	2.3967098	20	—	—
306945 2001 UM_{135}	16.7	X	270.11012	281.02750	79.28324	2.10114	0.1487846	0.24689011	2.5165192	20	6 5.4	20.0
306946 2001 UW_{135}	16.4	X	197.36345	11.74583	49.83196	15.35415	0.0958453	0.24282427	2.5445324	20	6 6.2	20.3
306947 2001 UP_{139}	16.9	X	228.94191	10.52187	35.81922	4.41431	0.0730174	0.24735415	2.5133709	20	6 26.9	20.4
306948 2001 UU_{143}	16.1	X	158.90499	194.17804	217.63916	21.63028	0.0245855	0.23694556	2.5864475	20	4 7.8	19.8
306949 2001 UA_{154}	16.4	X	110.40598	335.68012	53.32601	19.59857	0.2721573	0.22648816	2.6654613	20	2 25.6	20.7
306950 2001 UB_{167}	17.2	X	196.61698	191.69237	236.27677	9.82531	0.2634258	0.24415387	2.5352861	20	6 10.3	21.6
306951 2001 UV_{170}	16.9	X	237.77762	126.46443	230.59815	4.74555	0.2581214	0.24355950	2.5394091	20	4 15.5	21.2
306952 2001 UL_{176}	17.0	X	105.99182	127.44626	37.12606	9.24292	0.1339827	0.24555236	2.5256508	20	7 19.2	20.8
306953 2001 UY_{178}	16.1	X	353.11953	274.04180	62.11683	11.85312	0.1339826	0.20435564	2.8545981	20	9 27.2	19.5
306954 2001 UN_{184}	16.4	X	199.30067	304.48257	118.81474	6.73302	0.1080618	0.24558599	2.5254202	20	6 12.8	20.1
306955 2001 UA_{188}	16.8	X	193.46148	319.59450	119.88207	5.92282	0.2275091	0.24366530	2.5386739	20	6 23.3	21.1
306956 2001 UX_{191}	16.3	X	224.31631	63.18525	328.67511	14.60448	0.1592451	0.24589052	2.5233347	20	5 20.9	20.6
306957 2001 UW_{209}	17.5	X	191.84439	152.23187	299.68754	4.97265	0.1253582	0.30012283	2.2093780	20	7 14.1	20.5
306958 2001 UB_{213}	17.3	X	171.12790	327.26658	109.09804	3.11055	0.2002796	0.24058249	2.5603149	20	6 1.1	21.5
306959 2001 UE_{219}	17.0	X	214.70446	144.94215	278.41832	1.95107	0.1604236	0.24591989	2.5231338	20	6 25.3	20.9
306960 2001 UV_{221}	16.8	X	237.33566	296.18182	88.31154	4.92410	0.1305433	0.24428661	2.5343676	20	6 1.2	20.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
306961 2001 UR_{222}	17.2	X	203.68323	327.32929	48.89404	4.97960	0.1592696	0.23893660	2.5720590	20	4 16.5	21.3
306962 2001 UW_{226}	15.9	X	258.25787	126.93093	45.23468	13.82536	0.1482357	0.21814292	2.7330147	20	—	—
306963 2001 VC_5	17.1	X	343.71603	78.71388	268.13900	7.25060	0.2121916	0.30967512	2.1637073	20	10 20.2	18.5
306964 2001 VN_9	16.8	X	173.67347	222.19257	242.61921	4.69378	0.1219186	0.29599054	2.2298937	20	7 10.9	19.9
306965 2001 VZ_{19}	17.0	X	259.58363	319.48525	88.18462	3.05741	0.1622219	0.25038739	2.4930314	20	7 25.9	20.2
306966 2001 VK_{21}	16.6	X	237.24889	5.43198	41.37864	5.58950	0.1322368	0.24665467	2.5181204	20	6 30.8	20.2
306967 2001 VA_{24}	14.8	X	130.23810	136.98368	242.92043	14.84459	0.0868143	0.17388575	3.1790209	20	2 3.5	19.7
306968 2001 VL_{40}	16.7	X	248.02714	98.82749	260.90075	4.95741	0.1933429	0.24236078	2.5477755	20	5 3.3	20.6
306969 2001 VU_{58}	17.2	X	78.60864	4.95914	341.65559	4.67359	0.0921517	0.32260808	2.1054870	20	—	—
306970 2001 VD_{62}	15.3	X	205.44859	103.21880	246.97797	10.01036	0.0929721	0.18237076	3.0796350	20	3 16.7	20.3
306971 2001 VF_{62}	16.3	X	254.53756	69.84768	296.54898	2.73357	0.1471499	0.24513934	2.5284869	20	5 24.9	19.8
306972 2001 VY_{62}	16.2	X	268.25449	163.45344	261.07149	7.16112	0.1918322	0.19989241	2.8969334	20	8 16.4	20.3
306973 2001 VX_{64}	17.0	X	42.68805	39.11050	346.14278	3.20537	0.2838251	0.26951443	2.3736392	20	—	—
306974 2001 VG_{74}	15.9	X	260.10792	50.30893	348.87353	5.68655	0.0838177	0.19608748	2.9342885	20	7 24.2	20.0
306975 2001 VP_{76}	17.1	X	158.90034	91.12157	26.70971	19.90923	0.0745224	0.35171975	1.9876422	20	7 22.7	20.1
306976 2001 VR_{78}	16.0	X	64.55680	1.71674	234.07652	56.15127	0.2266477	0.30571773	2.1823394	20	9 9.7	20.3
306977 2001 VB_{82}	16.2	X	231.39452	72.62080	255.30790	10.00616	0.1118628	0.23413405	2.6071119	20	3 10.4	20.5
306978 2001 VW_{84}	15.9	X	237.90970	122.46379	252.12344	14.13841	0.0528321	0.24383633	2.5374867	20	5 27.9	19.4
306979 2001 VY_{84}	16.7	X	95.85402	48.94456	276.81898	7.54414	0.2064334	0.27159402	2.3615071	20	—	—
306980 2001 VV_{101}	17.5	X	275.99918	81.45181	259.12610	4.87333	0.2035867	0.29901790	2.2148174	20	5 6.2	20.3
306981 2001 VY_{105}	16.2	X	169.95603	119.39325	250.29642	8.68578	0.1835648	0.23278350	2.6171860	20	3 5.1	20.6
306982 2001 VQ_{107}	17.6	X	31.68344	184.15968	287.10707	2.43596	0.1744537	0.27650689	2.3334513	20	—	—
306983 2001 VD_{112}	15.3	X	55.18108	77.66740	42.61988	9.66383	0.0489219	0.17517569	3.1633955	20	3 9.0	19.7
306984 2001 VZ_{112}	15.7	X	161.50334	343.90730	47.16975	11.76479	0.2494450	0.18072098	3.0983489	20	4 6.2	21.1
306985 2001 VD_{113}	16.2	X	133.49562	196.96830	258.27662	11.73362	0.1436079	0.23605678	2.5929356	20	5 16.6	20.2
306986 2001 VN_{113}	16.0	X	308.56990	296.64347	22.28308	2.83437	0.1662823	0.24550151	2.5259996	20	5 31.8	18.6
306987 2001 VS_{115}	17.5	X	252.35397	162.49594	271.21813	4.29132	0.1275667	0.30415694	2.1897989	20	8 30.9	19.9
306988 2001 VY_{125}	17.6	X	242.05314	175.57775	229.93082	3.20467	0.1431681	0.24719807	2.5144287	20	7 2.7	21.1
306989 2001 WP_7	16.7	X	244.75837	268.45608	100.53191	6.29888	0.2090909	0.24424604	2.5346482	20	5 13.3	20.6
306990 2001 WJ_{17}	17.3	X	225.59035	120.47207	239.46506	2.63590	0.2716005	0.24253365	2.5465647	20	4 8.8	21.8
306991 2001 WF_{18}	16.6	X	163.17032	177.47109	225.11842	12.86629	0.1510299	0.23668347	2.5883565	20	4 8.6	20.8
306992 2001 WB_{19}	16.7	X	177.41690	191.17420	229.16173	4.08051	0.0426004	0.24092725	2.5578717	20	5 15.2	20.2
306993 2001 WO_{27}	16.7	X	247.66487	248.94809	130.96421	4.44890	0.1931243	0.24544712	2.5263727	20	5 31.1	20.4
306994 2001 WO_{31}	15.5	X	294.11637	20.53426	224.53106	10.51248	0.1538352	0.23154152	2.6265366	20	1 31.9	19.5
306995 2001 WY_{46}	17.4	X	350.82897	134.00678	237.34235	5.59239	0.0630238	0.31199249	2.1529798	20	11 25.6	19.6
306996 2001 WU_{51}	18.1	X	173.43955	29.97937	0.64856	0.80246	0.1602887	0.29001257	2.2604323	20	4 2.8	21.3
306997 2001 WS_{56}	17.0	X	242.63092	307.26286	38.76889	4.01378	0.1794723	0.24159612	2.5531485	20	4 13.5	20.8
306998 2001 WY_{58}	16.8	X	223.45923	40.82044	349.35278	1.44810	0.1579584	0.24421817	2.5348411	20	5 21.6	20.6
306999 2001 WF_{77}	16.0	X	301.94226	301.12386	56.85836	13.34101	0.0494184	0.19594526	2.9357081	20	8 3.8	20.1
307000 2001 WA_{86}	17.9	X	142.45662	30.75614	75.20128	3.36477	0.1103214	0.29163784	2.2520263	20	6 7.8	21.0
307001 2001 WN_{86}	15.6	X	119.43927	87.92044	90.12169	11.13935	0.0486133	0.19074505	2.9888253	20	8 9.1	20.0
307002 2001 WM_{92}	16.0	X	237.68079	131.45584	257.06086	9.90998	0.1090077	0.24652575	2.5189982	20	6 9.0	19.6
307003 2001 WJ_{100}	16.3	X	83.57227	125.32469	82.04366	6.21738	0.0847601	0.24498994	2.5295147	20	8 12.3	19.7
307004 2001 WT_{100}	16.8	X	307.80421	316.79530	13.28371	0.99605	0.0818492	0.24657758	2.5186452	20	6 29.8	19.8
307005 2001 XP_1	18.0	X	254.50580	246.36275	268.05007	39.20801	0.7524318	0.20052614	2.8908267	20	8 31.3	24.5
307006 2001 XQ_1	14.8	X	168.16770	34.13201	10.23003	33.54568	0.4043517	0.23321451	2.6139604	20	4 14.9	20.2
307007 2001 XG_3	16.5	X	276.53756	23.31183	306.69806	4.03044	0.1931995	0.24489268	2.5301845	20	4 24.9	20.0
307008 2001 XP_{21}	16.0	X	181.52587	91.80230	305.86636	11.39670	0.3929040	0.18336672	3.0684735	20	4 20.4	22.2
307009 2001 XC_{40}	15.7	X	256.56808	40.68981	316.57310	10.10671	0.3467919	0.24462524	2.5320282	20	4 20.1	20.3
307010 2001 XC_{47}	15.3	X	243.64479	313.44391	71.93371	13.17221	0.2082949	0.24078077	2.5589091	20	5 31.7	19.0
307011 2001 XT_{57}	16.6	X	141.70193	208.76326	238.71190	6.26904	0.0960018	0.23553547	2.5967602	20	5 11.9	20.2
307012 2001 XN_{61}	16.2	X	274.71509	247.51824	112.25237	5.12204	0.2087437	0.24565059	2.5249774	20	6 2.3	19.5
307013 2001 XY_{61}	16.9	X	358.92175	329.80118	98.54106	4.76250	0.2046305	0.26532677	2.3985494	20	—	—
307014 2001 XF_{62}	15.9	X	220.98606	146.47156	234.88343	5.68053	0.1993263	0.24017172	2.5632333	20	5 5.5	20.0
307015 2001 XZ_{65}	15.6	X	171.58191	234.24777	273.26668	16.93572	0.1535145	0.24443573	2.5333368	20	8 22.6	20.0
307016 2001 XT_{70}	16.3	X	259.31448	221.75551	143.08123	5.87652	0.1275501	0.24513197	2.5285376	20	6 1.9	19.8
307017 2001 XB_{75}	16.2	X	233.27185	287.77589	130.46380	6.99768	0.1315270	0.24638718	2.5199425	20	7 11.1	19.7
307018 2001 XU_{76}	16.5	X	285.13233	322.15823	16.55977	2.74171	0.1506611	0.24467195	2.5317059	20	5 25.9	19.7
307019 2001 XV_{77}	16.7	X	252.53888	230.02193	135.88379	2.65264	0.1380170	0.24342794	2.5403239	20	5 24.3	20.2
307020 2001 XF_{78}	15.9	X	216.21831	348.86613	80.47461	11.49569	0.0908409	0.19134494	2.9825752	20	7 8.5	20.5
307021 2001 XJ_{79}	17.2	X	221.02156	338.87943	62.44690	8.11439	0.1434109	0.29534360	2.2331488	20	6 3.9	20.3
307022 2001 XF_{93}	17.4	X	38.28485	21.54228	63.66622	4.39608	0.2000433	0.27401959	2.3475507	20	—	—
307023 2001 XX_{95}	17.8	X	260.50993	327.07593	63.87367	3.24677	0.2128966	0.30091102	2.2055183	20	6 27.8	20.6
307024 2001 XZ_{108}	17.4	X	232.34764	331.27507	106.50235	5.15575	0.1386963	0.29885324	2.2156308	20	8 10.2	20.1
307025 2001 XP_{109}	15.6	X	247.89532	269.74664	119.32190	5.96468	0.0657586	0.24602892	2.5223883	20	6 28.4	19.0
307026 2001 XD_{126}	16.4	X	285.18768	205.20695	144.16272	0.56598	0.0474542	0.24483762	2.5305637	20	6 27.7	19.6
307027 2001 XL_{129}	17.8	X	258.59276	116.06998	240.69298	3.26247	0.1963258	0.29712552	2.2242115	20	5 9.8	20.9
307028 2001 XT_{131}	15.6	X	247.71670	296.51474	71.86917	11.29269	0.1187093	0.18910068	3.0061270	20	5 24.7	20.0
307029 2001 XB_{133}	16.4	X	166.46380	222.45122	247.83803	17.16993	0.1257114	0.24209647	2.5496295	20	7 5.9	20.6
307030 2001 XT_{146}	16.1	X	184.23581	34.77650	82.16752	11.69324	0.0515848	0.19172402	2.9786424	20	8 7.1	20.6
307031 2001 XL_{159}	15.8	X	271.63939	346.22843	100.88172	9.73036	0.1784429	0.20029092	2.8930896	20	9 30.4	19.7
307032 2001 XT_{159}	17.0	X	131.83307	247.45036	256.95263	4.65670	0.0973609	0.29290221	2.2455408	20	7 17.7	20.1
307033 2001 XK_{163}	17.2	X	105.01607	38.58407	111.03707	4.27115	0.0691705	0.29108203	2.2548922	20	6 18.3	20.0
307034 2001 XG_{186}	16.0	X	225.31715	6.36254	118.15246	7.73158	0.1684795	0.19689781	2.9262322	20	9 21.2	20.5
307035 2001 XU_{206}	16.4	X	255.28219	312.13215	106.76416	7.53518	0.2211331	0.19528865	2.9422849	20	7 23.6	20.7
307036 2001 XB_{215}	16.2	X	262.63323	332.78275	31.90180	5.62756	0.2045934	0.24250917	2.5467360	20	5 24.2	19.8
307037 2001 XJ_{220}	16.4	X	161.26980	105.93575	257.53851	13.06152	0.2013213	0.23087360	2.6315999	20	2 18.4	21.0
307038 2001 XJ_{225}	16.6	X	222.77346	300.55247	61.82244	8.43996	0.2098698	0.23947507	2.5682019	20	4 16.2	20.9
307039 2001 XU_{236}	17.6	X	62.17834	357.55870	59.37058	2.08427	0.1787561	0.27381477	2.3487212	20	—	—
307040 2001 XZ_{240}	16.4	X	221.11904	138.63958	296.99236	8.34456	0.2614865	0.24370829	2.5383754	20	7 9.9	20.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
307041 2001 XG_{242}	17.7	X	109.77609	12.84516	107.25895	3.79751	0.1083915	0.28823026	2.2697411	20	5 19.5	20.6
307042 2001 XN_{242}	17.3	X	202.58896	120.41295	331.97959	0.13743	0.2273145	0.18983942	2.9983232	20	7 15.1	22.4
307043 2001 XY_{242}	15.8	X	170.67465	79.43914	267.61430	12.38121	0.2159971	0.22787105	2.6546664	20	2 9.3	20.5
307044 2001 XA_{243}	16.3	X	262.33409	20.27985	85.41874	6.73834	0.0882229	0.25472910	2.4646221	20	11 2.7	19.2
307045 2001 XX_{246}	16.8	X	27.71560	186.11869	55.01857	7.64298	0.0803939	0.29481666	2.2358090	20	7 9.3	19.1
307046 2001 YF_{6}	17.9	X	142.07440	30.34503	72.93216	25.53746	0.2569340	0.28825407	2.2696162	20	6 11.4	21.6
307047 2001 YF_{20}	16.3	X	201.69900	114.06198	51.22437	9.73373	0.2210714	0.25575587	2.4580213	20	10 20.1	20.1
307048 2001 YN_{28}	16.8	X	246.61175	183.23136	292.32702	1.28849	0.1649169	0.25412237	2.4685435	20	10 9.1	19.8
307049 2001 YS_{29}	16.4	X	324.10604	299.47024	70.29446	10.10628	0.0831484	0.19997723	2.8961143	20	9 21.5	20.1
307050 2001 YE_{47}	16.5	X	129.54105	123.83338	276.55015	11.96794	0.2683581	0.22916538	2.6446612	20	3 11.3	21.1
307051 2001 YD_{49}	16.9	X	139.55033	214.25384	289.16162	6.43406	0.1229684	0.29444230	2.2377037	20	7 27.0	20.1
307052 2001 YD_{68}	17.6	X	108.16160	228.17319	281.10677	5.19559	0.1040269	0.28948792	2.2631626	20	6 26.8	20.5
307053 2001 YY_{69}	16.3	X	198.65739	71.59835	309.53102	5.75974	0.2466374	0.23585630	2.5944048	20	4 13.2	20.9
307054 2001 YG_{71}	16.7	X	245.01085	292.19604	80.46115	5.84245	0.2677330	0.24168417	2.5525284	20	5 12.2	20.8
307055 2001 YH_{75}	17.3	X	3.91560	25.54284	77.12024	5.04135	0.1564586	0.26882919	2.3776710	20	—	—
307056 2001 YT_{81}	16.0	X	158.93894	294.10586	92.98212	10.51821	0.1530169	0.22831768	2.6512032	20	3 24.6	20.3
307057 2001 YN_{83}	16.9	X	243.11183	136.13795	289.14995	2.73557	0.2052423	0.24566665	2.5248675	20	7 22.9	20.5
307058 2001 YN_{86}	17.1	X	144.89196	357.28805	97.43618	7.67037	0.1240295	0.28737914	2.2742204	20	5 28.3	20.4
307059 2001 YL_{88}	16.2	X	192.68900	266.02643	295.12579	4.78601	0.0606534	0.25564418	2.4587372	20	12 8.7	19.4
307060 2001 YH_{95}	15.7	X	301.68169	285.37939	55.29276	7.38167	0.2661606	0.24509005	2.5288259	20	6 3.3	18.4
307061 2001 YA_{102}	17.1	X	217.93476	303.16662	102.35577	7.11857	0.1705301	0.29512406	2.2342562	20	6 5.5	20.4
307062 2001 YH_{131}	16.0	X	270.40255	27.78768	337.96052	6.13359	0.1703544	0.24536534	2.5269340	20	6 9.3	19.6
307063 2002 AE_{1}	15.9	X	238.25684	200.84783	218.94411	10.73470	0.1562790	0.24660405	2.5184649	20	7 13.7	19.8
307064 2002 AR_{5}	17.3	X	160.25775	173.51281	120.12529	23.20448	0.1443697	0.47939769	1.6168588	20	—	—
307065 2002 AX_{7}	16.6	X	132.52031	123.00813	133.92765	3.78513	0.1616704	0.25402608	2.4691672	20	12 10.4	20.5
307066 2002 AS_{8}	17.3	X	16.93737	74.62924	122.58657	7.13533	0.0688547	0.28216185	2.3021689	20	4 13.9	19.7
307067 2002 AJ_{10}	15.1	X	261.02889	67.73462	327.67289	27.80403	0.3839744	0.24346815	2.5400442	20	6 12.7	19.8
307068 2002 AX_{14}	18.1	X	153.33130	256.84120	258.39230	21.61337	0.0747538	0.51224001	1.5469884	20	9 12.1	20.1
307069 2002 AO_{30}	16.9	X	228.84714	262.32835	173.27801	0.57223	0.1865072	0.24461476	2.5321005	20	7 23.3	20.6
307070 2002 AV_{31}	20.7	X	154.55359	267.42634	119.28929	14.97681	0.2492656	0.65760690	1.3096597	20	2 1.7	19.5
307071 2002 AW_{32}	16.2	X	93.22766	245.79007	265.23567	20.67014	0.2213749	0.28391233	2.2926964	20	6 25.2	19.3
307072 2002 AQ_{33}	15.8	X	349.59737	270.89867	66.96004	6.98314	0.0826637	0.20116897	2.8846650	20	9 17.3	19.4
307073 2002 AE_{45}	15.7	X	118.00368	79.15543	114.25185	11.29821	0.0479579	0.18976164	2.9991424	20	8 27.1	20.1
307074 2002 AH_{49}	15.5	X	210.15754	129.67636	287.49083	8.64468	0.0803186	0.18369927	3.0647692	20	6 16.9	20.2
307075 2002 AF_{50}	16.3	X	228.40517	97.12892	285.34857	3.54613	0.2350463	0.23810895	2.5780158	20	5 10.7	20.7
307076 2002 AM_{52}	15.5	X	139.19206	36.97202	129.50319	6.83398	0.1564432	0.18673982	3.0314105	20	8 21.1	20.3
307077 2002 AX_{57}	17.6	X	124.51063	185.44045	295.64894	8.37110	0.1808226	0.28622350	2.2803378	20	6 14.8	21.0
307078 2002 AM_{68}	17.4	X	85.75612	215.52621	298.92391	5.05602	0.0969464	0.28584939	2.2823270	20	6 1.7	20.1
307079 2002 AN_{77}	17.3	X	96.04934	27.67219	101.94958	5.51219	0.0258050	0.28517450	2.2859265	20	5 2.4	20.0
307080 2002 AJ_{85}	15.3	X	153.59441	249.65881	247.81920	8.72992	0.0221655	0.18674067	3.0314014	20	7 22.4	19.7
307081 2002 AG_{88}	16.3	X	153.16550	18.14438	140.06816	6.26877	0.1990897	0.24219520	2.5489366	20	8 28.3	20.6
307082 2002 AK_{101}	15.5	X	123.26725	63.71610	91.21391	10.87245	0.0470530	0.18465945	3.0541359	20	7 12.3	19.9
307083 2002 AS_{102}	16.3	X	221.02084	354.24521	83.41590	5.41418	0.1360219	0.18839405	3.0136392	20	7 20.4	20.9
307084 2002 AE_{103}	16.9	X	203.46869	294.82223	92.01962	5.48638	0.1468431	0.28827683	2.2694967	20	4 29.4	20.4
307085 2002 AF_{123}	15.8	X	170.92593	351.95072	126.79532	12.68159	0.1419343	0.18459446	3.0548527	20	7 21.5	20.6
307086 2002 AV_{124}	15.7	X	142.59481	140.88441	63.06585	3.18995	0.1142329	0.24540779	2.5266427	20	10 15.0	19.5
307087 2002 AQ_{132}	18.1	X	300.81576	199.13086	294.30757	0.42578	0.1225125	0.31587647	2.1352949	20	—	—
307088 2002 AT_{144}	16.6	X	95.01078	334.92248	139.37024	6.68436	0.0364956	0.28204830	2.3027867	20	4 11.3	19.4
307089 2002 AP_{161}	15.6	X	61.73407	226.70704	308.08715	14.64096	0.1492312	0.17460922	3.1702336	20	6 3.2	20.0
307090 2002 AX_{177}	16.8	X	184.25665	182.40947	315.84761	5.63260	0.0846258	0.24288987	2.5440743	20	9 2.7	20.5
307091 2002 AX_{178}	16.6	X	223.89164	249.76077	320.10600	10.74098	0.1520244	0.25634644	2.4542447	20	—	—
307092 2002 AW_{179}	16.5	X	181.70696	105.69976	322.45461	6.15197	0.2228929	0.28794706	2.2712291	20	5 29.3	20.4
307093 2002 AT_{191}	15.8	X	161.76894	275.09033	270.49604	14.35696	0.1722101	0.19687745	2.9264340	20	9 26.1	21.0
307094 2002 AU_{196}	17.6	X	39.23848	112.42236	284.56022	1.21539	0.2135917	0.26598735	2.3945766	20	—	—
307095 2002 AW_{201}	15.7	X	147.38574	131.06827	42.21811	15.32541	0.0585914	0.24006800	2.5639716	20	9 16.6	19.6
307096 2002 AG_{203}	16.9	X	343.01340	277.38204	144.14611	7.09247	0.0844911	0.25787979	2.4445064	20	—	—
307097 2002 BX_{13}	17.9	X	122.18148	126.60782	309.96766	18.07894	0.1140501	0.38733185	1.8638627	20	3 14.3	20.1
307098 2002 BK_{24}	15.7	X	119.51388	202.55415	351.76720	13.03013	0.0925221	0.24117667	2.5561079	20	9 6.9	19.5
307099 2002 BV_{29}	15.8	X	283.57048	23.65281	350.09076	11.17874	0.2295760	0.24571180	2.5245581	20	7 1.5	19.1
307100 2002 CJ_{7}	17.0	X	115.93397	124.87987	17.35905	22.37529	0.2197824	0.28734564	2.2743972	20	7 13.0	21.1
307101 2002 CB_{13}	14.7	X	134.10734	351.11688	131.27947	25.52056	0.1448941	0.17813360	3.1282791	20	6 24.3	19.9
307102 2002 CX_{16}	16.8	X	229.05282	94.38361	323.71159	6.63778	0.3121798	0.24369373	2.5384765	20	6 20.5	21.2
307103 2002 CC_{18}	17.3	X	205.39203	81.64609	99.39461	5.86563	0.0669749	0.30637729	2.1792062	20	12 10.3	19.7
307104 2002 CH_{25}	17.7	X	187.48392	282.52001	129.28073	4.06335	0.1585001	0.28592961	2.2819001	20	5 15.8	21.2
307105 2002 CP_{25}	17.3	X	55.70545	192.42611	142.25904	24.80599	0.0825410	0.36168049	1.9509793	20	—	—
307106 2002 CF_{31}	16.6	X	166.85775	131.17554	21.06331	5.59320	0.1614569	0.24213572	2.5493540	20	9 3.6	20.7
307107 2002 CN_{31}	15.5	X	17.61534	95.26496	107.63979	14.40520	0.2204615	0.17122137	3.2119152	20	5 10.1	19.1
307108 2002 CN_{45}	17.2	X	182.33252	260.43568	140.02250	3.26790	0.1608152	0.28336163	2.2956659	20	4 26.0	20.7
307109 2002 CV_{49}	15.3	X	86.02370	237.33078	324.77170	15.05117	0.2739880	0.18156889	3.0886955	20	8 23.3	20.1
307110 2002 CJ_{58}	16.6	X	203.26480	74.49661	71.54707	1.07713	0.0826328	0.24676287	2.5173842	20	10 7.4	20.2
307111 2002 CD_{62}	16.7	X	46.51275	122.30029	84.69727	7.49988	0.2579057	0.28233068	2.3012510	20	7 19.9	19.0
307112 2002 CC_{68}	17.4	X	145.58561	353.93281	101.62315	3.56854	0.1083262	0.28724466	2.2749302	20	5 28.4	20.6
307113 2002 CD_{68}	16.9	X	51.87554	233.01861	315.32701	6.32848	0.0462498	0.28522598	2.2856514	20	5 21.3	19.5
307114 2002 CO_{69}	15.6	X	195.35328	308.03479	124.75735	8.32313	0.0803790	0.18228161	3.0806390	20	6 20.6	20.3
307115 2002 CC_{79}	16.1	X	221.00471	348.22044	130.47847	9.20373	0.0685510	0.24511679	2.5286420	20	9 27.5	19.6
307116 2002 CW_{84}	17.1	X	114.08080	128.24901	334.97297	6.69656	0.0849558	0.28269503	2.2992733	20	4 23.6	20.1
307117 2002 CS_{89}	17.1	X	178.29449	145.51848	356.87545	3.79340	0.1110512	0.24158353	2.5532372	20	9 2.2	20.9
307118 2002 CW_{93}	16.9	X	169.34857	166.98603	347.70909	7.82184	0.1075294	0.24138284	2.5546523	20	9 8.3	20.5
307119 2002 CM_{107}	15.6	X	157.87857	140.57805	5.46366	8.41266	0.2218612	0.18371989	3.0645398	20	8 15.9	20.9
307120 2002 CH_{117}	15.6	X	52.98513	223.92917	322.42822	11.64045	0.0846021	0.17612746	3.1519888	20	5 25.8	20.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
307121 2002 CX_{123}	17.5	X	208.54649	337.75826	149.34715	1.59484	0.1090171	0.24544206	2.5264074	20	9 15.6	21.1
307122 2002 CJ_{126}	16.6	X	164.59863	224.98894	314.80515	2.90749	0.0640833	0.24430492	2.5342409	20	10 5.7	20.3
307123 2002 CN_{126}	16.1	X	218.12093	318.24156	149.86421	15.54323	0.0643266	0.24256020	2.5463789	20	9 7.7	19.6
307124 2002 CL_{127}	15.6	X	170.63744	0.45748	133.33850	10.43723	0.0344726	0.18721918	3.0262339	20	8 10.1	19.8
307125 2002 CZ_{128}	15.2	X	327.86310	326.40394	301.63550	8.35754	0.0442769	0.17485666	3.1672421	20	5 6.6	19.6
307126 2002 CT_{146}	16.6	X	94.81143	206.82376	322.26481	6.33310	0.0788606	0.28437218	2.2902241	20	7 4.6	19.4
307127 2002 CZ_{147}	16.6	X	119.27655	111.75441	24.06549	0.81625	0.1274304	0.17884011	3.1200347	20	6 21.3	21.2
307128 2002 CU_{150}	16.7	X	131.72485	45.36460	62.99665	6.94572	0.0526322	0.28452636	2.2893967	20	5 23.3	19.4
307129 2002 CR_{155}	15.5	X	233.89890	167.10526	328.77289	12.08817	0.1354058	0.19767346	2.9185724	20	10 9.6	19.9
307130 2002 CL_{157}	17.2	X	128.30085	357.33664	109.64235	5.34250	0.0802958	0.28415110	2.2914119	20	5 21.5	20.1
307131 2002 CR_{160}	15.9	X	123.74062	137.16302	29.87442	5.51451	0.2253659	0.18419301	3.0592897	20	8 13.2	21.0
307132 2002 CC_{163}	16.1	X	78.86195	161.83696	33.55316	6.22344	0.1981265	0.18003209	3.1062478	20	8 1.4	20.7
307133 2002 CF_{164}	15.7	X	108.93612	86.68291	90.95199	11.00731	0.0697007	0.18335659	3.0685864	20	7 27.7	20.2
307134 2002 CL_{169}	15.3	X	98.90769	40.47309	125.72546	8.65975	0.1862498	0.17715646	3.1397716	20	7 13.7	20.1
307135 2002 CA_{172}	16.8	X	115.37635	154.36826	18.42351	5.31591	0.1185623	0.28962648	2.2624407	20	8 11.8	19.9
307136 2002 CJ_{172}	16.4	X	159.48884	68.78741	108.33619	5.76169	0.0872400	0.24310482	2.5425744	20	9 30.2	20.2
307137 2002 CV_{175}	16.2	X	260.65977	282.77026	115.75738	14.54908	0.2609056	0.19115732	2.9845264	20	6 28.5	20.9
307138 2002 CU_{177}	16.6	X	134.38200	270.13303	126.59621	8.89127	0.2988494	0.22666816	2.6640500	20	3 23.4	21.2
307139 2002 CC_{184}	16.8	X	139.41631	164.40802	331.46247	2.74409	0.1807940	0.18117794	3.0931372	20	7 15.4	21.8
307140 2002 CL_{188}	18.2	X	110.99400	123.80686	1.24957	2.30433	0.1571681	0.28409294	2.2917246	20	6 2.1	21.2
307141 2002 CW_{188}	15.3	X	107.99103	181.94862	332.24147	10.89806	0.0080737	0.17960141	3.1112116	20	6 17.3	19.9
307142 2002 CK_{197}	17.7	X	337.34540	119.79517	70.48369	2.32450	0.1234656	0.27145720	2.3623005	20	1 20.1	20.4
307143 2002 CQ_{219}	18.2	X	185.00118	201.26859	348.44069	7.36402	0.3481240	0.24525270	2.5277077	20	10 22.1	22.9
307144 2002 CP_{227}	17.0	X	57.82403	214.78430	294.30227	5.93015	0.0532211	0.27934005	2.3176467	20	4 1.5	19.6
307145 2002 CL_{238}	16.6	X	234.75798	187.53552	315.05685	5.56102	0.1718768	0.19568619	2.9382986	20	10 16.9	21.1
307146 2002 CF_{242}	17.1	X	52.11116	253.76565	296.76165	2.90929	0.1015265	0.28077969	2.3097178	20	6 4.0	19.4
307147 2002 CG_{247}	16.0	X	120.66055	294.09426	241.28895	3.07358	0.2377459	0.18195238	3.0843541	20	8 17.7	21.3
307148 2002 CN_{251}	15.8	X	130.41088	78.25338	97.64642	8.61278	0.1658922	0.18665697	3.0323075	20	8 27.1	20.8
307149 2002 CU_{254}	17.0	X	162.89557	253.59777	200.88806	7.10454	0.2201428	0.28840282	2.2688357	20	6 17.6	20.8
307150 2002 CU_{256}	15.7	X	209.07179	84.01641	351.20790	8.33767	0.1154067	0.18429137	3.0582012	20	7 7.3	20.6
307151 2002 CQ_{269}	15.9	X	344.23976	277.32560	320.83122	8.19553	0.0150479	0.17330340	3.1861386	20	4 21.8	20.4
307152 2002 CZ_{270}	17.7	X	97.95865	191.37413	316.21938	4.14993	0.0811663	0.28544718	2.2844704	20	6 6.7	20.5
307153 2002 CR_{284}	16.3	X	117.05562	158.44962	335.72560	6.71304	0.1158692	0.17588682	3.1548631	20	6 15.4	21.1
307154 2002 CF_{286}	16.1	X	181.10560	325.53063	140.68925	6.09360	0.0799495	0.18391001	3.0624274	20	7 16.5	20.8
307155 2002 CB_{293}	15.6	X	54.66262	53.74027	154.79379	7.06520	0.0663252	0.17788441	3.1311999	20	6 26.0	19.9
307156 2002 CT_{293}	16.1	X	225.85782	303.49956	217.48634	14.15171	0.2451300	0.19707555	2.9244725	20	10 24.2	20.7
307157 2002 CO_{299}	16.7	X	88.64767	147.13420	32.31418	4.64283	0.1413488	0.28500178	2.2868499	20	7 21.2	19.6
307158 2002 CN_{302}	16.1	X	141.28069	269.89843	225.71570	7.13262	0.1936869	0.18080902	3.0973431	20	7 15.4	21.3
307159 2002 DM_{2}	17.7	X	341.89402	103.29752	16.77297	20.75669	0.0529368	0.37061970	1.9194805	20	—	—
307160 2002 DR_{2}	14.7	X	73.20150	80.76956	91.11786	25.44555	0.3153038	0.17255587	3.1953337	20	7 8.9	19.5
307161 2002 DY_{3}	18.4	X	15.22654	137.97289	354.95528	24.16483	0.2743443	0.54099155	1.4916802	20	—	—
307162 2002 DM_{9}	14.1	X	251.61739	272.65662	359.16888	28.69089	0.4207447	0.21268187	2.7796006	20	1 22.3	19.9
307163 2002 DG_{11}	17.8	X	269.98515	130.87300	334.11369	4.62785	0.0805185	0.30404704	2.1903265	20	11 24.1	20.0
307164 2002 DM_{19}	15.6	X	330.35489	121.38036	150.09510	11.64345	0.0662308	0.17833036	3.1259776	20	5 18.7	19.9
307165 2002 EM_{5}	17.6	X	341.66547	124.44568	346.57180	19.87966	0.1165132	0.36925009	1.9242241	20	—	—
307166 2002 EY_{5}	16.8	X	278.43755	74.48592	8.89935	7.04108	0.0937990	0.30171821	2.2015829	20	11 2.9	18.9
307167 2002 EZ_{9}	17.4	X	90.94719	73.39245	0.21080	20.40985	0.1319276	0.37888182	1.8914732	20	2 12.7	19.1
307168 2002 EB_{12}	17.2	X	14.28861	49.31031	161.93465	3.68252	0.1781878	0.27746373	2.3280836	20	5 1.1	18.8
307169 2002 EN_{16}	16.9	X	344.00098	34.60972	192.17273	12.48001	0.2015766	0.27426719	2.3461376	20	3 9.4	19.1
307170 2002 EE_{28}	16.1	X	168.98227	302.40020	175.73289	17.13265	0.3017229	0.18195644	3.0843081	20	7 17.6	22.0
307171 2002 EW_{31}	15.6	X	54.61422	207.59465	343.51133	11.16915	0.1134521	0.17445384	3.1721157	20	6 8.6	20.0
307172 2002 EC_{34}	17.0	X	6.81494	131.27139	47.61228	3.31448	0.1256945	0.27290964	2.3539115	20	2 24.4	19.1
307173 2002 EY_{41}	17.0	X	91.97167	153.26737	331.31700	6.36056	0.0655303	0.27830328	2.3233992	20	4 20.4	20.0
307174 2002 EK_{47}	15.4	X	24.62577	88.22820	177.52730	9.85283	0.2042639	0.17691289	3.1426527	20	8 11.8	19.1
307175 2002 ES_{49}	17.7	X	14.78673	258.66021	302.35144	0.68886	0.1281208	0.27688118	2.3313479	20	4 12.1	19.5
307176 2002 EF_{57}	17.7	X	116.43053	138.52761	327.71276	5.43572	0.1647745	0.28168340	2.3047751	20	5 12.8	20.9
307177 2002 ES_{57}	16.5	X	270.69614	108.04392	283.44804	3.67570	0.2326716	0.29556657	2.2320256	20	7 8.9	19.2
307178 2002 EL_{64}	17.6	X	63.39761	277.14093	253.29317	2.16745	0.1600996	0.27968424	2.3157449	20	6 2.8	19.9
307179 2002 ER_{65}	16.8	X	156.68112	320.01659	210.95982	3.20206	0.1112612	0.23951877	2.5678896	20	9 14.6	20.8
307180 2002 ES_{65}	16.0	X	187.08972	113.31210	347.73724	13.86944	0.2873572	0.18250730	3.0780988	20	7 14.9	21.7
307181 2002 EH_{69}	15.7	X	135.93801	348.33235	188.52186	7.28100	0.1329331	0.23662611	2.5887748	20	8 31.7	19.7
307182 2002 EX_{75}	15.2	X	137.90053	206.11557	283.70602	8.54477	0.0500143	0.17723831	3.1388049	20	6 27.5	19.8
307183 2002 EM_{85}	16.2	X	184.09667	136.06321	2.11711	9.11611	0.0737334	0.23902817	2.5714021	20	9 6.1	19.9
307184 2002 EG_{93}	15.6	X	191.64156	120.49827	356.66478	10.12388	0.0848260	0.18574267	3.0422502	20	8 14.1	20.3
307185 2002 EC_{96}	16.5	X	148.29982	187.83652	356.11557	15.13329	0.0496155	0.24041188	2.5615260	20	9 22.4	20.0
307186 2002 EQ_{104}	16.9	X	23.79960	78.49860	100.14319	3.12282	0.1511659	0.27361879	2.3498426	20	3 29.8	18.8
307187 2002 EG_{107}	15.2	X	186.88788	357.22261	78.26734	9.35624	0.0397864	0.17601541	3.1533264	20	6 15.1	19.8
307188 2002 EH_{107}	16.4	X	174.53987	101.44201	55.80410	7.63828	0.2296701	0.24123304	2.5557097	20	9 16.6	20.9
307189 2002 EU_{124}	16.7	X	90.40179	120.25454	88.05106	6.18960	0.1979232	0.23279451	2.6171034	20	9 4.6	20.7
307190 2002 EK_{130}	15.9	X	37.40694	327.38949	292.30502	10.80163	0.4305043	0.22873469	2.6479800	20	10 4.4	19.7
307191 2002 ET_{133}	17.4	X	69.28258	231.33834	265.96345	2.60548	0.0828170	0.27694536	2.3309877	20	4 9.2	20.1
307192 2002 EY_{133}	17.5	X	119.47854	120.69967	339.16816	9.28610	0.1574746	0.28050672	2.3112160	20	5 4.7	20.9
307193 2002 EH_{145}	16.5	X	98.00522	352.91446	174.49517	1.15028	0.0991752	0.17684484	3.1434589	20	7 3.7	21.0
307194 2002 ES_{147}	16.8	X	43.44133	58.12791	157.46802	5.43230	0.1084970	0.28198514	2.3031306	20	6 29.3	19.3
307195 2002 EX_{163}	15.5	X	355.72202	196.02577	52.76731	16.06819	0.0671693	0.17180571	3.2046282	20	5 22.2	19.6
307196 2002 FO_{1}	16.3	X	320.12034	93.98452	109.52152	12.23769	0.2210316	0.26816570	2.3815913	20	—	—
307197 2002 FZ_{1}	17.7	X	268.58102	262.51832	19.14534	22.97378	0.2215404	0.43199155	1.7330824	20	2 5.7	20.6
307198 2002 FJ_{3}	16.0	X	154.49515	265.50222	189.94757	26.79396	0.4372006	0.23414530	2.6070283	20	6 16.3	21.7
307199 2002 FY_{6}	15.5	X	207.89024	41.60735	73.50531	17.14913	0.1979375	0.18967726	3.0000318	20	8 24.6	20.7
307200 2002 FT_{9}	15.1	X	63.02166	168.43997	11.10166	27.39566	0.1484629	0.17152819	3.2080838	20	6 4.5	19.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
307201 2002 FO_{12}	15.7	X	124.17213	324.82227	175.47171	15.59047	0.1618912	0.17606397	3.1527465	20	7 3.9	20.9
307202 2002 FO_{14}	17.1	X	58.36819	70.06915	85.26610	5.68157	0.1745462	0.27839717	2.3228768	20	5 6.2	19.3
307203 2002 FB_{15}	17.7	X	16.15987	68.80368	117.25541	4.42311	0.1483386	0.27523041	2.3406606	20	3 25.2	19.6
307204 2002 FC_{16}	16.0	X	81.68452	128.44311	57.57534	10.99499	0.1552286	0.17601584	3.1533213	20	7 17.1	20.7
307205 2002 FQ_{27}	17.0	X	321.34286	117.77145	92.28738	6.20337	0.1641744	0.27005101	2.3704939	20	1 17.6	19.8
307206 2002 FV_{35}	16.3	X	303.49430	119.75326	100.69391	14.56594	0.0667543	0.26689111	2.3891678	20	1 23.5	19.3
307207 2002 FA_{41}	15.1	X	86.51585	105.89061	82.33843	17.41432	0.1846458	0.17629279	3.1500179	20	7 30.1	20.0
307208 2002 GZ_{2}	16.8	X	10.75297	251.66463	17.65678	24.13441	0.2532888	0.28015455	2.3131525	20	9 1.2	19.2
307209 2002 GN_{6}	16.1	X	92.85052	103.08456	212.30782	33.60001	0.3251089	0.24184140	2.5514220	20	—	—
307210 2002 GT_{7}	16.0	X	145.15849	104.97915	47.86061	12.23687	0.1394789	0.23384902	2.6092299	20	8 17.4	20.3
307211 2002 GS_{12}	17.5	X	49.11151	335.14671	195.45334	8.14981	0.1338632	0.27623684	2.3349718	20	5 5.6	19.7
307212 2002 GN_{43}	16.7	X	103.68410	233.10449	317.83083	3.71067	0.1740927	0.23204766	2.6227159	20	8 21.1	20.6
307213 2002 GV_{43}	17.3	X	311.45581	202.73915	14.63129	1.50450	0.1328253	0.26669439	2.3903425	20	1 19.5	20.3
307214 2002 GK_{47}	15.6	X	66.71770	249.56750	313.99297	12.62492	0.0573065	0.23060392	2.6336512	20	7 9.1	19.1
307215 2002 GM_{66}	16.7	X	100.64546	52.59197	64.54858	3.70438	0.1280489	0.27617742	2.3353068	20	5 5.9	19.6
307216 2002 GR_{71}	17.1	X	54.15353	122.62248	54.24520	4.35517	0.1602753	0.27801155	2.3250243	20	5 27.4	19.4
307217 2002 GC_{73}	16.9	X	259.06179	217.41374	32.03758	15.29450	0.1675419	0.26211708	2.4180902	20	—	—
307218 2002 GR_{74}	16.5	X	87.15044	212.73830	8.87537	5.00447	0.1156516	0.23332917	2.6131040	20	9 7.1	20.2
307219 2002 GN_{80}	17.4	X	331.34540	63.46678	142.99475	2.74895	0.1619739	0.26809703	2.3819979	20	1 27.1	20.0
307220 2002 GH_{85}	15.8	X	84.91758	276.70691	33.43685	14.17347	0.0839087	0.24623154	2.5210044	20	12 23.0	19.7
307221 2002 GS_{88}	16.8	X	349.86116	116.53383	90.84351	11.21200	0.1804458	0.26976202	2.3721866	20	3 3.8	19.2
307222 2002 GB_{92}	17.3	X	80.56645	239.23575	260.16355	1.06427	0.0805780	0.27642248	2.3339263	20	4 30.5	20.1
307223 2002 GU_{99}	16.4	X	151.03602	146.01399	6.37779	11.64542	0.1026838	0.23549880	2.5970297	20	8 20.8	20.4
307224 2002 GZ_{104}	15.7	X	85.91203	223.54485	77.15896	13.77802	0.3328812	0.18284463	3.0743118	20	12 20.4	21.1
307225 2002 GX_{108}	17.8	X	108.89014	47.88645	45.52845	19.82199	0.1110890	0.38266686	1.8789800	20	4 10.9	19.7
307226 2002 GN_{109}	17.1	X	18.56702	128.05607	70.26892	8.83036	0.1591966	0.27353005	2.3503508	20	4 21.6	19.0
307227 2002 GE_{123}	17.6	X	325.75157	289.47063	185.84974	4.57608	0.2721247	0.31269860	2.1497374	20	—	—
307228 2002 GP_{146}	17.0	X	327.72885	56.14800	164.99298	6.09786	0.0935811	0.27033830	2.3688142	20	2 21.1	19.5
307229 2002 GO_{149}	17.6	X	247.89381	336.87918	270.22752	1.57912	0.1853332	0.25997507	2.4313543	20	—	—
307230 2002 GS_{162}	17.5	X	72.45413	21.99976	140.23756	2.82334	0.1489888	0.27840829	2.3228149	20	6 3.4	20.1
307231 2002 GV_{173}	17.4	X	323.52300	88.42384	118.81737	4.24902	0.1737871	0.26598032	2.3946188	20	1 15.5	20.2
307232 2002 GS_{185}	17.8	X	116.59247	314.42753	173.09692	2.85703	0.1351298	0.27965602	2.3159007	20	6 10.3	20.9
307233 2002 HR_{4}	16.5	X	26.39854	55.76972	67.76495	21.91779	0.2527895	0.26566715	2.3965002	20	—	—
307234 2002 HA_{8}	17.2	X	19.70323	137.96049	52.10025	24.52613	0.2386473	0.27485623	2.3427844	20	4 20.7	18.9
307235 2002 HZ_{9}	16.7	X	38.44929	352.64764	192.96357	6.11281	0.1816317	0.27582456	2.3372980	20	5 15.5	18.6
307236 2002 JK_{2}	15.3	X	62.45868	138.87658	74.60690	28.44720	0.1952360	0.17541576	3.1605086	20	8 6.4	20.1
307237 2002 JR_{6}	17.0	X	352.46745	89.60214	90.19582	10.88711	0.2297261	0.26610198	2.3938889	20	1 14.7	19.2
307238 2002 JO_{29}	16.4	X	230.75421	8.78742	214.32582	10.24379	0.1456801	0.25260312	2.4784314	20	—	—
307239 2002 JT_{63}	17.4	X	206.57917	31.34699	234.01744	20.29547	0.0840543	0.36232685	1.9486583	20	—	—
307240 2002 JU_{67}	16.1	X	85.28684	304.62719	236.45239	23.13825	0.3639530	0.28143628	2.3061240	20	8 3.6	20.4
307241 2002 JP_{89}	17.4	X	215.33929	271.21280	4.53888	1.23567	0.1692366	0.25643956	2.4536505	20	—	—
307242 2002 JF_{92}	17.2	X	279.94294	210.19395	28.07131	2.07235	0.1743629	0.26158292	2.4213810	20	1 5.5	20.7
307243 2002 JU_{100}	18.0	X	61.58850	100.48415	38.78015	3.35964	0.1796693	0.27278802	2.3546111	20	4 16.9	20.2
307244 2002 JU_{122}	15.3	X	134.22721	111.20700	129.33712	11.17016	0.0649651	0.18788915	3.0190357	20	11 13.2	20.0
307245 2002 JK_{125}	16.5	X	3.19135	176.35159	9.41813	6.30806	0.0543429	0.26855753	2.3792742	20	3 4.9	19.1
307246 2002 JU_{126}	16.4	X	210.33472	37.44727	158.86324	8.76483	0.0791117	0.24625747	2.5208274	20	12 19.9	19.9
307247 2002 JO_{150}	16.1	X	112.39081	349.91297	80.27080	8.10374	0.0232245	0.21005925	2.8026885	20	3 12.4	20.1
307248 2002 JP_{150}	17.0	X	179.57592	106.40286	184.97484	6.78637	0.1323727	0.25198183	2.4825037	20	—	—
307249 2002 JC_{151}	15.7	X	291.69157	99.04547	79.37741	7.12478	0.0371258	0.19972216	2.8985795	20	—	—
307250 2002 KW_{8}	17.3	X	30.99278	77.70570	72.94496	23.19560	0.0754382	0.37569229	1.9021636	20	2 17.7	19.4
307251 2002 KW_{14}	5.6	X	51.82066	124.86996	59.83248	9.74943	0.2027275	0.00305679	47.0210105	20	6 7.7	21.9
307252 2002 LR_{1}	16.9	X	57.06855	66.77344	99.66170	8.50011	0.1762681	0.27349732	2.3505383	20	5 21.9	19.3
307253 2002 LU_{32}	15.9	X	179.76077	81.25493	139.37752	15.48402	0.0727652	0.24451094	2.5328172	20	12 16.6	19.8
307254 2002 LM_{46}	14.4	X	13.97891	106.57604	243.71639	24.36915	0.3259540	0.17236876	3.1976457	20	12 3.0	18.0
307255 2002 LS_{55}	16.0	X	127.46901	122.33154	192.96430	16.50997	0.2660679	0.24451723	2.5327738	20	—	—
307256 2002 LH_{56}	15.8	X	107.98573	146.44405	182.99171	15.47054	0.2674732	0.24124557	2.5556212	20	—	—
307257 2002 LP_{62}	16.7	X	111.04974	248.24460	66.41614	7.05114	0.2169086	0.23922772	2.5699719	20	—	—
307258 2002 LJ_{64}	17.8	X	246.33158	197.46033	131.58035	6.25573	0.2413986	0.26131481	2.4230369	20	3 22.7	21.8
307259 2002 MN_{1}	16.4	X	46.62244	81.13950	259.47890	10.93060	0.3366629	0.22658696	2.6646864	20	—	—
307260 2002 MW_{2}	15.8	X	58.75371	200.35386	111.55049	16.20216	0.3507694	0.23000497	2.6382214	20	12 23.0	20.3
307261 2002 MS_{4}	3.6	X	225.33341	212.54496	216.01854	17.68270	0.1393612	0.00361537	42.0436568	20	7 3.2	20.3
307262 2002 NN_{22}	16.2	X	131.82038	168.29400	134.87586	6.92526	0.1805489	0.24033779	2.5620524	20	—	—
307263 2002 NT_{26}	16.1	X	250.54265	116.26749	144.76855	13.88984	0.4307547	0.19962093	2.8995594	20	—	—
307264 2002 NX_{42}	17.2	X	106.86754	221.28069	75.82574	6.21208	0.3042123	0.23677019	2.5877245	20	—	—
307265 2002 NC_{48}	16.5	X	162.39006	329.60264	306.45759	12.67644	0.1497116	0.24179393	2.5517559	20	—	—
307266 2002 NR_{49}	17.2	X	276.09976	28.14253	325.40573	4.61216	0.2513530	0.26777891	2.3838841	20	5 17.7	20.5
307267 2002 NX_{51}	15.9	X	38.63770	77.60962	298.10289	12.73817	0.3542538	0.17730234	3.1380491	20	—	—
307268 2002 NQ_{53}	16.8	X	204.89460	220.56100	116.29808	7.08845	0.1304880	0.25569492	2.4584119	20	2 29.0	20.6
307269 2002 NY_{60}	16.6	X	106.24095	210.67760	133.32671	5.80141	0.1296760	0.24139923	2.5545366	20	—	—
307270 2002 NQ_{63}	17.0	X	13.07737	249.98032	78.88312	2.58765	0.1581866	0.22615784	2.6680561	20	10 23.9	20.0
307271 2002 NH_{68}	16.9	X	93.22455	1.37309	291.06604	11.32030	0.1787110	0.23283295	2.6168154	20	12 15.1	21.2
307272 2002 NL_{70}	16.8	X	98.36027	177.65393	135.88895	7.50146	0.1324434	0.23726342	2.5841369	20	—	—
307273 2002 NW_{76}	17.3	X	80.15200	354.26569	342.56251	4.70717	0.0812815	0.23687534	2.5869586	20	—	—
307274 2002 OX_{17}	16.5	X	172.43005	80.58477	194.89447	5.92578	0.1292068	0.24413929	2.5353870	20	—	—
307275 2002 OD_{23}	15.6	X	62.09894	259.93942	292.97249	23.35371	0.1183978	0.26706827	2.3881111	20	6 29.5	18.6
307276 2002 PJ_{15}	17.5	X	82.14129	149.67672	176.33145	3.31474	0.2650606	0.23536473	2.5980159	20	—	—
307277 2002 PW_{23}	15.2	X	67.50248	74.55832	308.83473	9.17545	0.3007629	0.18321687	3.0701463	20	—	—
307278 2002 PE_{54}	16.5	X	344.03856	337.06800	129.69086	10.24462	0.0764022	0.23966362	2.5668548	20	—	—
307279 2002 PJ_{55}	14.8	X	65.77129	353.17462	326.51767	15.81835	0.2059829	0.17457802	3.1706113	20	12 13.2	19.9
307280 2002 PB_{61}	16.0	X	23.95748	124.26092	229.63118	14.17963	0.1946179	0.22858020	2.6491729	20	12 17.1	19.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
307281 2002 PG_{62}	16.5	X	154.98748	127.49730	132.01593	13.05979	0.1612192	0.23892657	2.5721310	20	12 30.4	20.7
307282 2002 PF_{72}	14.9	X	42.13784	136.50732	266.31096	15.09556	0.2918732	0.18174114	3.0867436	20	—	—
307283 2002 PN_{73}	16.1	X	36.82477	206.54167	195.75113	13.15279	0.1459381	0.23725664	2.5841862	20	—	—
307284 2002 PJ_{81}	16.8	X	107.62627	111.25697	180.26663	11.25087	0.1679638	0.23558990	2.5963602	20	12 26.0	21.3
307285 2002 PX_{81}	16.2	X	269.38515	202.36577	152.77837	10.57526	0.2268610	0.21046754	2.7990628	20	5 20.6	20.6
307286 2002 PA_{96}	15.2	X	315.33818	69.43549	318.94870	23.04202	0.4892076	0.16164559	3.3375426	20	7 25.2	18.6
307287 2002 PK_{99}	16.5	X	80.98674	289.67877	43.62057	4.77593	0.2391824	0.23425169	2.6062390	20	—	—
307288 2002 PW_{99}	16.5	X	116.48510	286.65403	35.09479	6.50675	0.1613641	0.29394187	2.2402427	20	—	—
307289 2002 PK_{102}	16.5	X	77.03271	128.61440	198.77681	11.26983	0.1919032	0.23461599	2.6035403	20	—	—
307290 2002 PE_{134}	16.2	X	84.30042	193.48286	138.70460	5.55571	0.1864366	0.23531411	2.5983884	20	—	—
307291 2002 PF_{139}	16.2	X	68.23227	144.53818	161.63568	12.70436	0.2959556	0.22950490	2.6420523	20	12 18.9	20.8
307292 2002 PM_{167}	16.0	X	186.66398	14.38003	333.10691	11.42844	0.0622406	0.19765397	2.9187643	20	2 25.8	20.3
307293 2002 PK_{174}	16.8	X	127.58236	59.87057	201.76781	11.81793	0.1665335	0.23309730	2.6148366	20	12 8.3	21.2
307294 2002 PP_{177}	16.6	X	130.75080	150.02622	342.94599	3.83314	0.0940386	0.26756038	2.3851819	20	6 30.2	19.9
307295 2002 PR_{189}	17.1	X	44.55127	219.88007	131.47630	8.25338	0.2097632	0.23161311	2.6259954	20	—	—
307296 2002 PO_{197}	15.5	X	46.82757	293.90074	145.25690	11.71544	0.0138382	0.19305817	2.9649037	20	—	—
307297 2002 QF_{3}	17.1	X	115.59044	10.38624	278.64710	5.36941	0.2125496	0.23537938	2.5979080	20	12 31.2	21.5
307298 2002 QV_{6}	16.7	X	189.90244	281.96588	333.62555	26.65175	0.4139376	0.24392013	2.5369055	20	—	—
307299 2002 QJ_{11}	17.0	X	80.47679	17.03557	331.67563	4.13456	0.2078322	0.23652915	2.5894822	20	—	—
307300 2002 QH_{13}	16.8	X	58.37089	158.21958	209.68496	5.69369	0.1567564	0.23506716	2.6002079	20	—	—
307301 2002 QG_{20}	16.3	X	292.33872	141.60528	204.47887	7.43392	0.3235394	0.21189753	2.7864556	20	5 20.2	20.2
307302 2002 QA_{34}	16.2	X	69.49989	204.68492	143.06274	6.56162	0.1721986	0.23366926	2.6105679	20	—	—
307303 2002 QO_{54}	17.4	X	125.13796	350.72926	348.68489	7.14013	0.1547666	0.24165597	2.5527269	20	—	—
307304 2002 QO_{76}	16.6	X	151.29639	176.77244	128.32397	6.97313	0.1015700	0.24168072	2.5525527	20	—	—
307305 2002 QR_{76}	15.5	X	98.00646	98.37048	188.38053	17.63430	0.1451814	0.17789289	3.1311004	20	12 1.9	20.7
307306 2002 QP_{77}	16.9	X	16.72451	292.84527	114.22331	4.75030	0.2301622	0.23296753	2.6158075	20	—	—
307307 2002 QD_{78}	16.0	X	336.39034	86.24174	200.68443	8.79241	0.1364867	0.21131990	2.7915310	20	6 9.5	19.3
307308 2002 QS_{78}	16.9	X	13.86397	119.27955	18.34258	1.77455	0.0771512	0.24777409	2.5105302	20	1 15.7	19.6
307309 2002 QC_{80}	17.0	X	64.05541	214.14815	332.15414	6.18673	0.1110420	0.26784515	2.3834911	20	6 18.9	19.9
307310 2002 QF_{82}	16.9	X	73.29907	195.44572	176.38913	6.78971	0.0784083	0.23903024	2.5713872	20	—	—
307311 2002 QK_{82}	16.9	X	205.42126	13.22776	32.90315	5.00271	0.1611833	0.26149113	2.4219476	20	5 23.8	20.6
307312 2002 QJ_{84}	15.9	X	109.73351	201.65361	321.83037	23.73796	0.2109192	0.26900327	2.3766452	20	8 1.6	19.6
307313 2002 QQ_{86}	17.3	X	93.06055	124.26894	213.63450	1.88785	0.1144722	0.23716441	2.5848561	20	—	—
307314 2002 QJ_{89}	17.6	X	107.66012	297.62565	314.37093	2.78178	0.1064905	0.28324684	2.2962861	20	11 12.7	20.9
307315 2002 QM_{93}	17.2	X	5.71768	324.94018	46.33885	4.59141	0.2683029	0.22591584	2.6699610	20	12 24.8	20.2
307316 2002 QS_{97}	17.2	X	79.68131	5.57679	327.70932	2.33905	0.1016421	0.23524627	2.5988880	20	—	—
307317 2002 QM_{101}	17.0	X	48.52488	271.66440	99.85746	4.05972	0.2005019	0.23390579	2.6088077	20	—	—
307318 2002 QK_{103}	16.9	X	0.62031	299.03861	130.20153	9.69226	0.1686788	0.23320960	2.6139971	20	—	—
307319 2002 QT_{106}	16.9	X	47.52794	220.73519	156.77939	5.67396	0.1668094	0.23483429	2.6019266	20	—	—
307320 2002 QM_{108}	17.4	X	86.04418	53.93091	303.71420	1.26699	0.0844316	0.23955501	2.5676306	20	—	—
307321 2002 QA_{123}	15.2	X	80.38532	292.49683	61.83926	4.23858	0.1692860	0.12680253	3.9238956	20	—	—
307322 2002 QN_{125}	17.5	X	71.14163	236.65399	72.01180	3.13186	0.1945271	0.22982431	2.6396038	20	12 14.7	21.6
307323 2002 QW_{127}	15.7	X	67.99919	287.09898	86.05703	4.38005	0.2050291	0.12519293	3.9574568	20	—	—
307324 2002 QC_{128}	16.5	X	19.69619	73.01505	35.65331	1.94697	0.0723014	0.24499962	2.5294481	20	—	—
307325 2002 QJ_{128}	16.7	X	28.07519	54.20700	347.71625	9.06375	0.0513680	0.23608346	2.5927402	20	—	—
307326 2002 QZ_{128}	17.5	X	52.03577	18.92587	320.89945	3.06613	0.2357445	0.23191408	2.6237229	20	—	—
307327 2002 QJ_{146}	16.5	X	81.23385	201.28939	136.94094	5.04109	0.1351503	0.23549601	2.5970502	20	—	—
307328 2002 QC_{147}	16.6	X	13.13959	60.51160	52.06647	2.05350	0.1131869	0.24480054	2.5308193	20	—	—
307329 2002 RA_{5}	16.4	X	9.33034	120.82539	291.00421	11.49850	0.1762891	0.23117856	2.6292851	20	—	—
307330 2002 RD_{5}	16.7	X	4.24237	208.74474	224.18110	11.77982	0.2882700	0.23132888	2.6281460	20	—	—
307331 2002 RW_{8}	15.3	X	103.98301	312.87132	330.58335	15.98697	0.2277656	0.17806710	3.1290579	20	12 6.1	20.9
307332 2002 RC_{15}	16.7	X	8.22767	221.27712	169.38286	7.13215	0.1769840	0.22787937	2.6546017	20	—	—
307333 2002 RW_{28}	16.8	X	31.67041	144.87777	213.32722	12.31791	0.1756024	0.22989316	2.6390767	20	12 29.2	20.5
307334 2002 RW_{32}	16.9	X	134.89758	51.83021	337.45129	8.35812	0.1411495	0.24771012	2.5109625	20	2 23.9	20.3
307335 2002 RA_{35}	16.7	X	57.53315	171.07554	186.93683	7.81847	0.2072505	0.23245091	2.6196819	20	—	—
307336 2002 RO_{38}	15.8	X	290.46079	0.82088	329.19252	13.63445	0.1899804	0.21075755	2.7964944	20	5 10.9	20.0
307337 2002 RD_{44}	16.7	X	251.24962	335.04927	35.19400	3.37535	0.1852052	0.26385865	2.4074383	20	5 21.6	20.0
307338 2002 RU_{45}	16.5	X	105.09598	298.03125	358.77203	11.27937	0.1803934	0.23308770	2.6149084	20	12 31.7	21.0
307339 2002 RB_{53}	16.2	X	131.70586	319.15396	354.25189	12.43700	0.1614521	0.23915862	2.5704670	20	—	—
307340 2002 RT_{57}	16.5	X	241.36462	29.60935	275.51604	3.87531	0.1851142	0.25457374	2.4656248	20	2 18.4	20.5
307341 2002 RS_{64}	15.8	X	33.26616	306.44800	43.04368	15.17367	0.2134426	0.22376369	2.6870535	20	12 24.6	19.7
307342 2002 RQ_{66}	16.4	X	26.02300	133.59636	223.71425	12.95680	0.1198459	0.22704992	2.6610629	20	12 13.0	19.9
307343 2002 RC_{113}	16.9	X	72.35309	79.77657	268.23513	6.05120	0.1640996	0.23382887	2.6093798	20	—	—
307344 2002 RX_{117}	15.0	X	13.00609	190.75306	194.31189	28.51749	0.1551638	0.17305679	3.1891647	20	12 18.3	19.6
307345 2002 RW_{144}	17.5	X	231.88144	308.92192	34.23394	2.97630	0.2125842	0.25765982	2.4458975	20	3 28.2	21.5
307346 2002 RC_{146}	16.2	X	1.40811	121.95597	281.88015	3.87956	0.0920666	0.22892854	2.6464849	20	—	—
307347 2002 RL_{155}	17.2	X	129.51372	78.96482	212.48340	2.06710	0.1892852	0.23611153	2.5925347	20	—	—
307348 2002 RS_{155}	16.7	X	150.50114	30.60193	335.01822	8.03663	0.1684706	0.24745791	2.5126683	20	2 13.9	20.4
307349 2002 RC_{157}	16.8	X	95.08766	66.13554	220.29268	3.42600	0.2594407	0.23100465	2.6306046	20	12 13.8	21.4
307350 2002 RB_{183}	16.6	X	145.83952	60.82604	293.45927	12.17257	0.1955051	0.24477222	2.5310145	20	1 27.3	20.5
307351 2002 RD_{183}	16.6	X	122.39418	86.91362	297.05516	13.01634	0.2231740	0.24410619	2.5356162	20	2 10.5	20.4
307352 2002 RP_{183}	16.3	X	114.33062	87.65241	292.90768	14.24257	0.0673093	0.24278219	2.5448264	20	1 9.4	19.6
307353 2002 RM_{185}	16.7	X	148.29626	124.14911	209.36901	13.21227	0.1947823	0.24318418	2.5420212	20	1 3.9	20.8
307354 2002 RV_{198}	17.9	X	5.23661	157.29547	137.34802	1.63386	0.1317940	0.32754485	2.0842774	20	9 4.5	19.3
307355 2002 RL_{203}	17.0	X	204.98603	18.22373	19.15061	3.06013	0.1637002	0.25885080	2.4383893	20	5 12.1	20.7
307356 2002 RV_{205}	16.8	X	49.75184	313.34608	344.59284	6.47043	0.1164263	0.27889496	2.3201120	20	11 5.2	19.9
307357 2002 RW_{208}	16.8	X	30.49310	160.53892	191.37754	1.79482	0.2205186	0.22661227	2.6644880	20	12 26.8	20.4
307358 2002 RA_{210}	17.3	X	10.78345	331.19342	169.18630	2.05774	0.0481894	0.24646216	2.5194315	20	1 16.1	20.3
307359 2002 RJ_{212}	16.0	X	269.33679	275.70979	98.31803	8.82351	0.2043403	0.20951006	2.8075842	20	6 14.6	20.0
307360 2002 RC_{228}	16.9	X	7.30079	306.00835	94.59891	8.56213	0.3275615	0.22830630	2.6512913	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
307361 2002 RQ_{245}	17.4	X	263.00993	275.79164	133.89763	1.88763	0.1731590	0.27100790	2.3649107	20	8 1.9	20.1
307362 2002 RN_{247}	16.5	X	28.56498	73.27675	335.98900	11.42474	0.2830026	0.23384377	2.6092689	20	—	—
307363 2002 RD_{248}	17.1	X	62.68194	226.64842	105.70447	3.43998	0.2330519	0.23189273	2.6238840	20	—	—
307364 2002 RW_{253}	17.3	X	355.39984	126.48934	254.31520	1.28493	0.0993901	0.22623611	2.6674406	20	11 26.2	20.5
307365 2002 RX_{253}	16.7	X	79.11280	239.61542	324.35209	3.94107	0.1149959	0.26943800	2.3740880	20	8 6.6	19.7
307366 2002 RC_{255}	17.0	X	68.04483	159.53969	164.63815	3.68421	0.1773286	0.23110724	2.6298260	20	12 28.8	21.0
307367 2002 RK_{255}	16.6	X	2.45235	288.66856	159.08343	5.03474	0.0599770	0.23842419	2.5757429	20	—	—
307368 2002 RO_{260}	16.9	X	286.20999	235.00132	356.72749	6.70886	0.1038702	0.25052740	2.4921024	20	1 15.0	20.4
307369 2002 RS_{263}	16.9	X	195.64960	327.03433	272.70720	3.82814	0.0305624	0.23532827	2.5982842	20	—	—
307370 2002 RU_{273}	17.4	X	55.28933	284.12948	103.67321	1.06593	0.0860018	0.23742187	2.5829871	20	—	—
307371 2002 RU_{289}	15.9	X	290.75280	341.16176	184.88161	11.78007	0.1350449	0.23573440	2.5952991	20	—	—
307372 2002 ST_{11}	16.7	X	180.95233	22.97741	21.26726	6.77170	0.1228462	0.25506396	2.4624645	20	4 27.6	20.5
307373 2002 SA_{16}	16.6	X	40.41588	39.12528	311.33813	13.34798	0.1421547	0.22682815	2.6627971	20	12 27.5	20.3
307374 2002 SB_{21}	16.7	X	82.81901	315.32374	19.20500	3.64765	0.1680864	0.23234985	2.6204414	20	—	—
307375 2002 SR_{34}	15.5	X	14.76697	122.73894	21.69281	12.04285	0.1330523	0.24595944	2.5228633	20	1 27.9	18.3
307376 2002 SB_{42}	16.8	X	188.00030	317.01381	11.17487	2.76509	0.1125691	0.24666521	2.5180486	20	2 1.2	20.5
307377 2002 SQ_{45}	16.8	X	3.88677	209.94476	183.11966	2.07774	0.2102208	0.22516407	2.6759007	20	—	—
307378 2002 SF_{52}	17.3	X	85.28935	215.40807	81.08696	7.64371	0.3891243	0.23167833	2.6255025	20	12 25.1	22.3
307379 2002 SU_{53}	15.7	X	126.14968	141.49183	247.01504	14.28701	0.1200671	0.24450203	2.5328788	20	2 4.3	19.5
307380 2002 SP_{54}	17.1	X	42.34306	85.00330	249.36731	4.95037	0.2243318	0.22765444	2.6563500	20	12 19.6	20.8
307381 2002 SR_{61}	15.6	X	90.31202	57.08510	297.31147	1.76955	0.2309301	0.12571969	3.9463947	20	—	—
307382 2002 SJ_{67}	16.9	X	103.77705	188.20671	121.60971	5.88675	0.1082101	0.23450537	2.6043590	20	—	—
307383 2002 SK_{68}	17.2	X	66.89676	22.68919	275.16702	0.81934	0.2004425	0.22640901	2.6660825	20	11 27.6	21.0
307384 2002 SM_{68}	17.2	X	85.04255	109.72035	201.59231	2.47211	0.0665478	0.22903009	2.6457026	20	12 19.9	20.9
307385 2002 SP_{68}	16.7	X	281.04286	0.79028	277.15298	0.86587	0.0153502	0.19793403	2.9160104	20	3 23.8	20.6
307386 2002 SH_{69}	16.5	X	178.09652	242.62402	2.63512	9.13030	0.1151676	0.23392419	2.6086709	20	—	—
307387 2002 SR_{74}	16.4	X	40.84051	180.90746	215.52079	31.84483	0.1465770	0.23355851	2.6113931	20	—	—
307388 2002 TS_{2}	16.6	X	245.16913	180.27142	193.13595	3.64667	0.1331533	0.26107504	2.4245203	20	5 26.2	20.0
307389 2002 TY_{10}	15.6	X	340.61296	109.99655	266.11518	10.75641	0.1817723	0.22101413	2.7092933	20	10 26.4	18.5
307390 2002 TT_{21}	17.1	X	110.81704	33.48328	18.13477	13.44825	0.2075684	0.24449123	2.5329533	20	3 9.6	20.7
307391 2002 TY_{25}	16.3	X	287.13730	349.83450	22.02008	7.73030	0.1386410	0.26680562	2.3896781	20	7 22.7	19.1
307392 2002 TM_{28}	17.1	X	337.89621	239.96052	186.41504	5.63349	0.2921193	0.22416643	2.6838341	20	—	—
307393 2002 TL_{37}	16.7	X	177.21165	12.25409	34.03131	7.07959	0.1704947	0.25318305	2.4746454	20	4 28.2	20.7
307394 2002 TP_{42}	16.3	X	128.19894	344.16065	28.38519	14.27800	0.1843167	0.24184800	2.5513755	20	2 7.4	20.2
307395 2002 TC_{67}	14.5	X	61.48330	109.01339	225.08960	21.87135	0.1443058	0.17467810	3.1694001	20	12 16.6	19.4
307396 2002 TC_{79}	17.0	X	8.54901	347.26474	61.00284	2.48553	0.1872551	0.22824354	2.6517773	20	—	—
307397 2002 TY_{82}	16.8	X	189.26654	196.46716	210.38523	4.58995	0.1292042	0.25738447	2.4476416	20	5 10.9	20.6
307398 2002 TB_{83}	16.6	X	84.95982	106.56575	206.76342	13.74300	0.1794139	0.22891698	2.6465740	20	12 30.0	21.1
307399 2002 TU_{83}	16.7	X	49.26985	238.92222	126.99039	7.10179	0.2560046	0.23021068	2.6366495	20	—	—
307400 2002 TA_{111}	17.0	X	39.04835	98.23407	243.07361	6.15566	0.3178609	0.22666541	2.6640715	20	—	—
307401 2002 TH_{124}	16.5	X	345.18724	143.87403	288.67489	6.57461	0.2430515	0.22777420	2.6554188	20	—	—
307402 2002 TZ_{137}	16.7	X	129.45846	32.70268	347.14107	7.93006	0.1785185	0.29809456	2.2193886	20	2 5.8	19.5
307403 2002 TU_{145}	15.8	X	302.90800	209.38157	350.80896	8.70866	0.1797785	0.24345224	2.5401549	20	—	—
307404 2002 TY_{145}	18.2	X	314.36529	346.50414	326.16660	5.57544	0.1534872	0.32222387	2.1071603	20	6 4.2	19.9
307405 2002 TP_{154}	16.0	X	94.90678	145.29803	206.04414	18.46536	0.1390258	0.23767740	2.5811354	20	—	—
307406 2002 TF_{155}	16.0	X	176.43994	58.80940	216.87472	14.22937	0.0800950	0.24026484	2.5625710	20	—	—
307407 2002 TP_{159}	16.0	X	358.63972	320.42425	92.70038	11.68730	0.1344579	0.22690466	2.6621985	20	—	—
307408 2002 TT_{165}	17.0	X	78.85470	87.21135	221.03190	16.70345	0.3021075	0.23146003	2.6271531	20	12 27.4	21.8
307409 2002 TO_{170}	15.9	X	167.27756	57.62565	288.72241	10.00363	0.2647184	0.19165963	2.9793094	20	2 12.9	21.2
307410 2002 TT_{174}	16.4	X	53.06793	278.64512	79.66853	7.30131	0.2435467	0.23019919	2.6367372	20	—	—
307411 2002 TQ_{177}	16.1	X	188.75904	14.37568	301.41319	14.54054	0.1285267	0.24413414	2.5354227	20	1 18.4	20.0
307412 2002 TR_{184}	16.9	X	58.88722	90.97534	231.84584	3.30657	0.2739923	0.22853273	2.6495398	20	12 27.6	21.0
307413 2002 TT_{191}	14.8	X	26.77674	140.39351	233.94304	26.59996	0.1840330	0.17122308	3.2118938	20	12 25.2	19.4
307414 2002 TY_{191}	15.9	X	185.42854	0.71470	336.72078	12.72395	0.0696231	0.24542669	2.5265129	20	2 9.6	19.6
307415 2002 TE_{199}	16.4	X	27.83072	108.16367	267.69967	13.21562	0.0970308	0.22741540	2.6582111	20	—	—
307416 2002 TZ_{203}	16.6	X	23.74225	295.12771	77.27691	6.67277	0.2057410	0.22645236	2.6657422	20	—	—
307417 2002 TW_{220}	16.1	X	149.30178	358.43540	331.24000	14.75082	0.1165813	0.24115822	2.5562383	20	—	—
307418 2002 TR_{235}	16.6	X	90.64771	108.04042	286.78109	11.59244	0.1878751	0.23889930	2.5723267	20	1 13.4	19.4
307419 2002 TN_{237}	14.9	X	225.40231	267.11518	232.98123	27.83731	0.4071381	0.21229231	2.7830000	20	9 8.0	20.4
307420 2002 TK_{242}	16.7	X	112.05608	296.86472	112.91253	7.94786	0.2641682	0.24301294	2.5432152	20	3 14.6	20.5
307421 2002 TP_{256}	16.6	X	59.34695	309.72862	48.45414	2.58459	0.2091257	0.22964338	2.6409900	20	—	—
307422 2002 TE_{259}	16.1	X	19.95110	339.49891	57.49044	15.20255	0.2485933	0.22667786	2.6639740	20	—	—
307423 2002 TG_{259}	15.8	X	306.11876	172.72990	209.15649	19.85652	0.2821035	0.21320937	2.7750141	20	8 1.3	19.2
307424 2002 TA_{266}	15.0	X	213.01111	272.40783	60.22747	12.48073	0.1545525	0.24531761	2.5272618	20	3 7.7	19.3
307425 2002 TA_{267}	15.8	X	165.77493	318.18294	44.91778	12.64064	0.1159468	0.24345896	2.5401081	20	2 28.1	19.8
307426 2002 TC_{273}	16.6	X	142.71866	111.66734	249.14283	4.54489	0.1355678	0.24384213	2.5374464	20	1 25.9	20.3
307427 2002 TP_{273}	16.2	X	87.51922	103.06374	212.35832	13.15509	0.1383138	0.22911143	2.6450764	20	12 31.8	20.5
307428 2002 TX_{287}	16.0	X	211.64711	2.08253	359.43396	6.79773	0.1534865	0.25211444	2.4816331	20	4 2.9	19.8
307429 2002 TV_{293}	16.9	X	234.60336	326.33224	7.49877	6.06512	0.1978227	0.25454248	2.4658266	20	3 19.8	20.9
307430 2002 TR_{297}	16.5	X	120.45408	342.18028	37.79276	5.81881	0.0688330	0.24043545	2.5613586	20	1 18.1	19.9
307431 2002 TO_{304}	16.7	X	87.54250	231.60585	50.41589	10.05152	0.1953382	0.22602750	2.6690817	20	11 26.7	21.1
307432 2002 TD_{306}	17.3	X	160.11509	72.65259	62.92049	7.48751	0.0604126	0.26541075	2.3980434	20	8 8.9	20.7
307433 2002 TO_{319}	17.1	X	352.93947	227.98403	209.01071	2.66551	0.0778153	0.23282578	2.6168692	20	—	—
307434 2002 TT_{334}	17.5	X	206.29277	219.12692	96.47956	2.85081	0.0072166	0.24665582	2.5181125	20	2 2.9	20.7
307435 2002 TH_{347}	16.4	X	97.00650	261.57765	60.11616	12.59310	0.0599398	0.22972224	2.6403856	20	—	—
307436 2002 TW_{349}	16.5	X	138.79049	96.25395	214.87740	10.53364	0.0774251	0.24031512	2.5622135	20	—	—
307437 2002 TL_{350}	17.0	X	105.04740	59.71421	246.97002	7.43281	0.1049913	0.23439765	2.6051568	20	—	—
307438 2002 TZ_{375}	17.1	X	164.25604	246.26889	12.89681	7.57744	0.2495063	0.29209801	2.2496605	20	—	—
307439 2002 UR_{1}	16.8	X	110.60271	91.29753	349.72784	3.12027	0.1071115	0.24688278	2.5165691	20	3 27.9	20.1
307440 2002 UO_{25}	16.4	X	195.92665	168.75242	246.84043	6.69394	0.0796813	0.25777433	2.4451731	20	5 30.4	20.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
307441 2002 UQ_{28}	14.3	X	73.79567	76.22060	265.14235	19.80091	0.2464436	0.17505971	3.1647925	20	—	—
307442 2002 UZ_{28}	16.4	X	208.11283	268.55362	100.92395	7.30214	0.1657347	0.25372610	2.4711131	20	4 13.9	20.4
307443 2002 UJ_{37}	16.5	X	220.23644	320.72960	34.00714	8.03013	0.1084587	0.25300051	2.4758355	20	4 7.2	20.1
307444 2002 UU_{40}	15.7	X	344.23154	312.31771	99.17706	10.72411	0.2667611	0.22265198	2.6959904	20	—	—
307445 2002 UF_{41}	16.4	X	25.83037	311.51717	57.40018	12.34522	0.1919538	0.22438816	2.6820658	20	—	—
307446 2002 UN_{43}	16.7	X	73.05956	280.39498	47.76351	2.45982	0.0827044	0.22578630	2.6709822	20	12 28.3	20.4
307447 2002 UA_{75}	16.5	X	346.89037	331.79475	54.99963	5.82145	0.0613989	0.22029743	2.7151663	20	11 16.3	19.9
307448 2002 UY_{77}	16.7	X	17.21424	156.52977	197.34343	11.80211	0.2000683	0.22219124	2.6997161	20	12 8.0	20.2
307449 2002 UW_{78}	16.6	X	34.49033	341.49041	18.38165	6.50004	0.0719204	0.22461899	2.6802280	20	12 19.6	20.2
307450 2002 VN_{3}	16.7	X	32.49028	92.01831	270.02374	5.93155	0.1838431	0.22459664	2.6804058	20	—	—
307451 2002 VQ_{3}	16.3	X	311.93228	98.06591	30.64153	13.21566	0.2121160	0.22576605	2.6711419	20	—	—
307452 2002 VU_{14}	16.5	X	77.35292	21.77288	292.46880	3.64246	0.1804529	0.22699902	2.6614607	20	12 25.5	20.7
307453 2002 VQ_{30}	16.2	X	23.69813	330.59283	52.80773	9.90731	0.3006576	0.22545837	2.6735716	20	—	—
307454 2002 VW_{30}	16.6	X	164.79664	137.96031	239.04924	13.37761	0.2370229	0.24650685	2.5191269	20	3 9.9	21.2
307455 2002 VP_{55}	16.4	X	162.59428	36.98247	332.43276	0.82928	0.1639467	0.24498043	2.5295802	20	2 29.2	20.4
307456 2002 VN_{58}	16.9	X	134.99074	200.67498	200.90743	5.61188	0.2791575	0.24427077	2.5344772	20	3 23.1	20.9
307457 2002 VE_{66}	15.6	X	71.85460	89.37446	56.35209	26.88358	0.3856831	0.24381504	2.5376344	20	6 11.7	19.4
307458 2002 VR_{75}	15.8	X	22.19734	1.43330	71.97630	14.94234	0.0611143	0.23102714	2.6304339	20	—	—
307459 2002 VB_{81}	15.4	X	81.22109	24.86144	88.61313	13.37761	0.1928145	0.18659421	3.0329874	20	4 24.9	19.7
307460 2002 VS_{88}	17.0	X	88.61093	34.10998	9.97417	4.14487	0.2418660	0.23759284	2.5817478	20	2 2.6	19.9
307461 2002 VN_{90}	17.1	X	105.37739	306.71516	98.69615	5.12974	0.2600521	0.24290206	2.5439892	20	2 28.9	20.6
307462 2002 VP_{102}	16.0	X	76.26471	42.72308	20.32609	6.37082	0.1977400	0.18220338	3.0815208	20	2 12.5	19.9
307463 2002 VU_{130}	5.9	X	276.89323	282.08344	267.85653	1.37870	0.2087941	0.00405425	38.9519273	20	12 15.6	21.9
307464 2002 WL	14.6	X	327.24623	295.60837	135.96025	25.41147	0.4074048	0.16592660	3.2798857	20	12 4.6	17.3
307465 2002 WW_{2}	15.7	X	32.36542	64.79851	346.54099	11.95274	0.2644792	0.22701518	2.6613344	20	—	—
307466 2002 WJ_{18}	16.3	X	339.71335	304.65047	96.87798	11.74206	0.1631922	0.22059058	2.7127602	20	12 3.8	19.2
307467 2002 WD_{21}	16.7	X	337.02989	310.99995	74.58377	13.42791	0.1919157	0.21765506	2.7370971	20	11 8.9	19.4
307468 2002 WV_{21}	16.0	X	8.40679	304.36602	87.62385	10.99576	0.0643096	0.22330556	2.6907273	20	12 24.6	19.5
307469 2002 WP_{26}	16.2	X	79.63199	193.82548	88.11347	6.09998	0.0282425	0.21672750	2.7449011	20	11 2.1	20.0
307470 2002 WL_{30}	16.5	X	38.69709	291.40033	66.30861	6.17889	0.0851383	0.22228377	2.6989668	20	12 23.7	20.1
307471 2002 XB_{5}	15.9	X	346.65480	272.17148	84.17550	23.60514	0.3481265	0.21651461	2.7467001	20	11 12.0	18.2
307472 2002 XB_{8}	16.0	X	59.35649	272.39221	66.29819	12.27785	0.2155870	0.22525187	2.6752053	20	—	—
307473 2002 XV_{11}	16.1	X	189.84430	339.02831	14.12938	9.15485	0.2050472	0.24739467	2.5130965	20	3 8.4	20.3
307474 2002 XD_{16}	16.3	X	314.51800	137.65745	295.83536	12.52645	0.1186729	0.22006541	2.7170744	20	11 26.9	19.6
307475 2002 XZ_{19}	16.4	X	293.79715	172.31686	302.85787	3.66134	0.1201059	0.22167288	2.7039232	20	12 19.9	19.3
307476 2002 XU_{22}	16.2	X	150.98507	329.96883	61.30650	11.03070	0.0602828	0.24339092	2.5405815	20	3 13.3	19.9
307477 2002 XQ_{26}	15.8	X	22.91528	74.21099	301.99777	11.58723	0.2829046	0.22526232	2.6751225	20	—	—
307478 2002 XR_{31}	15.3	X	52.84219	106.88127	269.44271	15.84388	0.2253273	0.22805594	2.6532314	20	—	—
307479 2002 XR_{37}	16.8	X	93.60731	333.11284	96.96729	14.31993	0.2598991	0.24130401	2.5552086	20	3 23.4	20.5
307480 2002 XU_{37}	16.8	X	5.75587	121.41480	4.38826	6.90412	0.0994851	0.29095001	2.2555743	20	—	—
307481 2002 XG_{38}	15.7	X	126.61343	42.02991	28.77706	11.90166	0.2012255	0.24397958	2.5364934	20	4 14.9	19.5
307482 2002 XP_{46}	15.7	X	169.36951	200.32542	183.73363	4.60083	0.2119399	0.24635381	2.5201702	20	3 26.7	19.8
307483 2002 XL_{50}	16.4	X	13.68402	312.15317	58.73700	5.75158	0.1245078	0.21974265	2.7197343	20	12 11.9	19.7
307484 2002 XL_{55}	16.4	X	180.18613	168.48243	208.36928	5.45787	0.1479164	0.24672900	2.5176146	20	3 23.9	20.3
307485 2002 XM_{57}	16.7	X	111.45682	118.75375	224.51340	5.23004	0.1235942	0.28698995	2.2762760	20	—	—
307486 2002 XW_{59}	17.4	X	334.62338	284.18326	59.08890	20.98261	0.0528546	0.37720865	1.8970624	20	10 13.2	19.4
307487 2002 XF_{60}	16.0	X	342.80642	325.47067	80.28200	14.27561	0.0857909	0.21915402	2.7246021	20	12 6.9	19.4
307488 2002 XL_{62}	16.0	X	183.63688	133.36317	230.10961	4.51628	0.1475702	0.24568355	2.5247517	20	3 9.8	20.1
307489 2002 XZ_{64}	16.2	X	101.59145	17.44484	93.86351	17.62311	0.0752906	0.24286272	2.5442638	20	4 30.5	19.9
307490 2002 XU_{79}	15.4	X	143.27195	303.84108	73.88747	9.88469	0.2042427	0.23933182	2.5692267	20	2 29.9	19.6
307491 2002 XR_{81}	16.1	X	107.55752	154.03988	308.89842	7.39067	0.1240888	0.24321834	2.5417832	20	4 21.8	19.7
307492 2002 XE_{88}	15.6	X	341.60692	12.07541	48.30973	14.47985	0.1671338	0.21928448	2.7235213	20	12 31.7	18.7
307493 2002 XP_{90}	18.5	X	310.78887	324.14111	78.58764	23.10671	0.5857449	0.32848093	2.0803158	20	—	—
307494 2002 XD_{93}	15.3	X	231.18516	256.24184	57.18080	4.90802	0.2270912	0.24550898	2.5259483	20	2 22.4	19.6
307495 2002 XV_{95}	16.7	X	268.76751	30.41520	75.70243	5.71775	0.1948177	0.21567309	2.7538402	20	10 18.8	20.1
307496 2002 XC_{96}	16.3	X	281.99345	61.31519	78.09054	11.03262	0.2703186	0.22009997	2.7167900	20	12 12.5	18.8
307497 2002 XU_{108}	15.5	X	39.29761	80.25871	264.09031	10.11443	0.2074531	0.22236956	2.6982726	20	12 24.8	19.3
307498 2002 XD_{109}	16.3	X	354.99885	159.25743	267.63139	12.53084	0.1723158	0.22467531	2.6797800	20	—	—
307499 2002 XD_{117}	16.7	X	341.36527	327.83303	86.42170	3.20176	0.0757588	0.22139119	2.7062162	20	12 15.4	20.0
307500 2002 XN_{118}	16.7	X	336.99520	174.21243	226.37193	12.21296	0.0835856	0.21916331	2.7245251	20	11 20.9	19.9
307501 2002 YB_{1}	15.5	X	190.13807	345.63136	27.37309	7.17742	0.2686016	0.24518338	2.5281841	20	3 31.8	20.1
307502 2002 YF_{6}	16.5	X	63.44188	239.07996	264.45504	2.92191	0.1947724	0.24255415	2.5464212	20	4 29.8	19.4
307503 2002 YL_{8}	16.6	X	307.87663	350.48117	96.30913	4.12303	0.2721620	0.21819574	2.7325736	20	11 25.9	18.7
307504 2002 YC_{9}	16.0	X	357.91739	189.95640	282.55507	10.71637	0.1310029	0.22766824	2.6562427	20	—	—
307505 2002 YX_{11}	16.4	X	333.42361	90.83928	108.64876	22.69757	0.4279156	0.28342186	2.2953407	20	—	—
307506 2002 YF_{15}	16.4	X	70.18853	217.31687	292.98459	4.79011	0.0822373	0.24229542	2.5482337	20	4 30.6	19.7
307507 2002 YD_{19}	16.1	X	282.71904	37.45188	81.94152	4.60339	0.1489665	0.21768605	2.7368373	20	12 2.8	19.2
307508 2002 YX_{19}	16.0	X	257.38376	213.15416	272.08847	8.08129	0.1577125	0.21412643	2.7670852	20	10 27.9	19.9
307509 2003 AR	16.6	X	338.98332	266.78366	144.42504	3.98289	0.1940845	0.21752492	2.7381887	20	12 16.4	19.4
307510 2003 AB_{6}	16.0	X	345.78076	159.59747	311.20626	9.67216	0.2333698	0.22222588	2.6994355	20	—	—
307511 2003 AG_{6}	16.7	X	116.82302	314.35200	164.90077	5.65653	0.1758322	0.24481016	2.5307530	20	6 4.2	20.5
307512 2003 AD_{13}	16.3	X	300.50722	246.23619	198.32108	6.48533	0.2875049	0.21569061	2.7536911	20	10 30.9	18.4
307513 2003 AU_{21}	16.0	X	9.94090	232.19275	311.44097	11.75451	0.1828942	0.23699952	2.5860549	20	3 4.8	18.5
307514 2003 AO_{31}	15.3	X	86.28719	0.83751	74.78673	11.29377	0.1367261	0.18131454	3.0915833	20	3 7.2	19.7
307515 2003 AN_{32}	16.6	X	2.94562	47.40176	62.68335	5.42986	0.2038377	0.22760340	2.6567471	20	—	—
307516 2003 AR_{32}	16.0	X	233.12841	232.69864	296.83289	8.02449	0.0948320	0.21516002	2.7582164	20	12 3.4	19.9
307517 2003 AH_{43}	15.3	X	148.94566	74.63337	302.18010	13.29149	0.2547654	0.24154646	2.5534985	20	2 27.8	19.7
307518 2003 AB_{44}	16.2	X	187.51930	49.82326	329.32979	2.99049	0.2140921	0.24658010	2.5186280	20	4 3.4	20.4
307519 2003 AN_{58}	15.8	X	339.10137	338.04435	106.33118	15.82333	0.1632671	0.21877149	2.7277772	20	—	—
307520 2003 AY_{60}	16.2	X	284.93537	247.33048	229.51530	6.23272	0.2767520	0.21574321	2.7532435	20	11 13.8	18.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
307521 2003 AN_{61}	15.6	X	179.34143	157.41433	216.40000	5.37410	0.2517464	0.24383440	2.5375001	20	3 22.1	20.0
307522 2003 AE_{70}	17.1	X	139.71112	316.90765	117.39751	5.36739	0.1583908	0.24382237	2.5375835	20	4 30.3	21.1
307523 2003 AV_{72}	15.6	X	20.79465	101.29817	46.83744	28.02291	0.4005359	0.22943507	2.6425883	20	3 4.3	17.7
307524 2003 AX_{81}	16.2	X	321.07491	46.02802	61.11420	14.76066	0.2145574	0.21957024	2.7211579	20	—	—
307525 2003 AB_{83}	15.2	X	186.43259	291.83042	86.07670	30.91238	0.4811222	0.24488336	2.5302486	20	4 21.3	21.1
307526 2003 AB_{88}	16.3	X	181.38006	190.27554	184.40752	3.49323	0.1441484	0.24597147	2.5227810	20	3 23.4	20.1
307527 2003 BA_{12}	16.7	X	310.73727	347.17940	118.57537	3.82811	0.2502386	0.21672254	2.7449430	20	—	—
307528 2003 BF_{15}	16.7	X	297.62670	348.64909	88.80657	7.76565	0.3506415	0.21361262	2.7715206	20	10 5.1	19.3
307529 2003 BN_{15}	16.8	X	263.94731	268.53970	226.32573	6.58271	0.2483609	0.21258976	2.7804035	20	11 6.8	20.4
307530 2003 BL_{22}	16.1	X	296.71500	216.35066	206.79107	15.35675	0.2615092	0.21447825	2.7640584	20	9 19.9	19.0
307531 2003 BK_{37}	16.0	X	125.27622	64.26068	155.46333	9.03945	0.1635601	0.19798343	2.9155254	20	10 14.8	20.8
307532 2003 BO_{50}	15.7	X	162.25786	272.79567	127.24187	12.66473	0.1446547	0.18491149	3.0513600	20	4 14.2	20.8
307533 2003 BE_{52}	16.4	X	105.54889	276.87843	231.49154	2.72156	0.1459006	0.24563001	2.5251185	20	6 25.9	20.0
307534 2003 BN_{67}	16.2	X	298.05371	344.86403	93.15230	4.23774	0.1738358	0.21196805	2.7858375	20	10 31.1	19.1
307535 2003 BQ_{78}	15.5	X	165.58818	36.93882	347.08213	7.81335	0.3071423	0.24327028	2.5414214	20	3 25.9	20.1
307536 2003 CV_{3}	15.3	X	103.07740	269.34498	143.29986	25.96316	0.4019116	0.23482967	2.6019607	20	3 28.0	19.7
307537 2003 CO_{4}	16.4	X	207.78284	56.77998	75.94926	6.42299	0.1878892	0.20463063	2.8520401	20	9 13.5	21.0
307538 2003 DP_{7}	15.5	X	322.65856	279.85269	332.24391	22.67999	0.4147138	0.17487188	3.1670584	20	2 18.8	19.6
307539 2003 DU_{9}	16.4	X	71.21231	175.14195	18.21418	19.83487	0.1816252	0.24395844	2.5366399	20	7 28.0	20.3
307540 2003 DL_{11}	15.9	X	155.27763	31.43687	144.02345	5.74200	0.0467684	0.19976995	2.8981172	20	9 16.4	20.2
307541 2003 DH_{15}	16.2	X	278.03783	63.22963	54.35987	13.79680	0.1623520	0.21067092	2.7972610	20	11 18.4	19.3
307542 2003 EC_{2}	16.6	X	128.02029	100.81606	27.43299	6.24333	0.0914073	0.24520860	2.5280107	20	6 18.9	20.3
307543 2003 EO_{4}	15.8	X	63.72800	96.42424	17.81911	27.50208	0.4051141	0.23363416	2.6108293	20	4 20.5	18.9
307544 2003 EJ_{16}	16.0	X	262.98223	83.83581	168.79284	21.61361	0.4144343	0.27413508	2.3468913	20	—	—
307545 2003 EO_{17}	15.9	X	293.52736	341.63894	179.59426	17.27104	0.1801520	0.21700730	2.7425412	20	—	—
307546 2003 EM_{20}	16.5	X	181.61002	177.11800	350.99478	7.34530	0.2197721	0.20079053	2.8882885	20	9 27.0	21.5
307547 2003 EN_{23}	16.1	X	16.40602	158.64266	7.95376	16.32490	0.1918642	0.23084733	2.6317996	20	3 5.7	18.5
307548 2003 EO_{27}	17.6	X	314.03462	196.39080	358.87380	4.25630	0.0905450	0.28261319	2.2997172	20	—	—
307549 2003 ET_{27}	15.8	X	90.06668	200.47377	10.34510	13.52537	0.2023155	0.19038463	2.9925962	20	9 5.3	20.5
307550 2003 EV_{28}	16.2	X	174.25830	176.63613	17.03275	11.56603	0.1861844	0.25738458	2.4476409	20	10 28.5	20.1
307551 2003 EO_{29}	16.8	X	43.94565	210.34709	25.94993	8.05860	0.1390870	0.30023519	2.2088268	20	8 13.4	19.2
307552 2003 ED_{37}	15.9	X	71.59773	108.45228	64.87970	14.04187	0.0860286	0.24209844	2.5496157	20	6 5.9	19.1
307553 2003 EJ_{37}	16.2	X	38.95981	105.33329	88.81839	13.89209	0.1306490	0.23851743	2.5750715	20	5 24.9	19.1
307554 2003 EC_{41}	16.1	X	41.90282	170.88112	77.01038	10.22110	0.2187282	0.24397476	2.5365268	20	9 4.7	19.3
307555 2003 EP_{42}	15.8	X	251.76663	307.72144	54.62409	10.61755	0.0332920	0.18180710	3.0859970	20	5 31.1	20.1
307556 2003 EQ_{43}	16.4	X	77.40773	275.63975	180.76685	27.21320	0.4092879	0.23633354	2.5909109	20	4 24.8	20.2
307557 2003 EX_{48}	17.3	X	160.66317	21.94130	106.59129	3.51194	0.0801330	0.30567638	2.1825362	20	7 31.4	20.0
307558 2003 EY_{48}	16.5	X	43.54607	7.94602	162.87205	5.43697	0.0842172	0.23555252	2.5966348	20	4 22.6	19.5
307559 2003 ES_{49}	16.8	X	55.99298	51.00181	170.55409	4.43111	0.1397028	0.30019663	2.2090159	20	8 4.8	19.2
307560 2003 EE_{54}	13.3	X	226.42708	35.44044	81.80505	13.44657	0.0324413	0.08500342	5.1228519	20	9 18.7	20.4
307561 2003 EY_{56}	16.1	X	122.03668	23.79295	94.93239	16.08822	0.0921551	0.24352772	2.5396300	20	6 1.7	19.7
307562 2003 FX_{1}	15.9	X	210.97073	33.03581	357.80814	35.23687	0.1957746	0.24128787	2.5553225	20	4 19.1	20.8
307563 2003 FF_{6}	16.9	X	40.98693	24.01288	209.15144	7.50983	0.1312131	0.29833344	2.2182037	20	7 25.6	19.3
307564 2003 FQ_{6}	20.7	X	130.37427	233.54841	86.59628	3.61957	0.1315309	0.61381554	1.3712315	20	—	
307565 2003 FV_{10}	16.4	X	107.31319	358.78972	195.66405	3.27138	0.1344226	0.19155437	2.9804008	20	8 21.3	20.9
307566 2003 FK_{22}	17.1	X	49.59278	159.42341	69.48876	7.04609	0.2920759	0.29920999	2.2138694	20	9 6.8	19.8
307567 2003 FB_{25}	17.6	X	64.54028	75.03088	153.06152	2.96430	0.1257373	0.30351847	2.1928687	20	8 26.5	20.1
307568 2003 FE_{49}	17.1	X	40.70933	177.70365	50.65914	7.31214	0.1683334	0.29656072	2.2270346	20	7 29.5	19.4
307569 2003 FR_{68}	12.9	X	238.21536	346.58541	122.83919	9.19672	0.0609957	0.08344613	5.1863909	20	9 15.6	19.9
307570 2003 FN_{74}	17.1	X	87.49347	136.32560	77.96199	7.87071	0.1083874	0.30314564	2.1946663	20	9 8.2	20.0
307571 2003 FA_{92}	16.2	X	68.06450	82.04572	136.32571	7.58005	0.1794130	0.18628949	3.0362939	20	8 13.7	20.4
307572 2003 FX_{101}	15.8	X	159.75176	139.60354	354.87458	9.06571	0.0962948	0.19025591	2.9939459	20	8 1.9	20.5
307573 2003 FW_{105}	16.5	X	46.17790	94.89263	115.09208	6.01642	0.1107071	0.23917153	2.5703744	20	6 24.2	19.4
307574 2003 FD_{108}	16.0	X	46.90268	7.26724	251.07798	6.11107	0.2123297	0.24295224	2.5436388	20	9 16.2	19.4
307575 2003 FL_{112}	17.5	X	234.93561	82.10677	209.38438	5.04912	0.1117347	0.28191159	2.3035312	20	1 26.9	20.9
307576 2003 FR_{113}	16.9	X	51.86599	233.97541	352.04536	7.10457	0.0952294	0.30072177	2.2064434	20	7 31.7	19.3
307577 2003 FW_{127}	15.3	X	258.85247	179.24259	200.06851	17.35810	0.1889520	0.24214330	2.5493008	20	6 11.3	19.3
307578 2003 FC_{133}	16.8	X	124.69883	337.64175	197.23428	3.93098	0.0731836	0.18928940	3.0041286	20	8 9.6	21.2
307579 2003 GD_{9}	17.1	X	73.64656	148.91348	49.37287	5.66721	0.0955595	0.29849664	2.2173951	20	7 22.0	19.7
307580 2003 GS_{15}	17.3	X	109.27826	205.50112	39.79834	1.51506	0.1464519	0.25297992	2.4759698	20	11 3.9	21.1
307581 2003 GD_{35}	15.7	X	138.88775	103.97869	66.75747	10.93782	0.0613990	0.19085373	2.9876905	20	8 26.1	20.3
307582 2003 GM_{38}	15.8	X	255.35443	262.60311	68.56393	10.49302	0.0817489	0.17616575	3.1515321	20	4 24.4	20.4
307583 2003 GZ_{39}	16.0	X	78.33731	155.20553	73.50325	6.19250	0.1775599	0.18863756	3.0110452	20	9 10.9	20.5
307584 2003 HE_{28}	16.8	X	342.87595	11.48287	242.76683	6.04374	0.0861499	0.29084019	2.2561420	20	5 4.7	18.9
307585 2003 HA_{49}	18.0	X	314.89122	140.13401	124.15771	1.57836	0.2319027	0.28493658	2.2871988	20	3 10.1	20.6
307586 2003 HJ_{49}	17.4	X	250.72918	63.21033	205.10387	12.81841	0.3658647	0.27392124	2.3481126	20	1 3.2	22.1
307587 2003 HR_{49}	18.1	X	311.17744	207.53048	44.72076	6.79908	0.2087411	0.28411651	2.2915978	20	2 23.9	20.9
307588 2003 HT_{54}	15.7	X	157.26476	310.80810	209.60105	17.02839	0.1530429	0.19283409	2.9672002	20	8 24.7	20.8
307589 2003 HY_{57}	15.4	X	315.73533	237.91192	77.96239	10.95939	0.0847641	0.17975340	3.1094576	20	6 19.0	19.5
307590 2003 JX_{12}	15.6	X	264.76915	296.51233	57.51502	10.30845	0.0916474	0.17870612	3.1215941	20	5 28.8	20.1
307591 2003 KD_{3}	15.7	X	162.04350	307.08129	140.31024	11.43842	0.0907682	0.17570571	3.1570307	20	6 5.2	20.7
307592 2003 NX_{1}	16.3	X	198.34997	78.44403	243.41013	22.60034	0.2515680	0.27194415	2.3594797	20	1 25.7	20.9
307593 2003 NB_{5}	16.2	X	1.75199	216.00988	90.39489	14.25831	0.2524779	0.23547423	2.5972103	20	9 22.9	18.8
307594 2003 OF_{19}	15.2	X	31.17648	75.16220	258.42032	10.17827	0.1205361	0.18302844	3.0722531	20	11 8.2	19.3
307595 2003 OA_{24}	16.6	X	234.23703	142.14375	182.16201	6.23680	0.1289950	0.27447754	2.3449388	20	3 8.8	20.1
307596 2003 OC_{24}	16.0	X	205.51709	218.36865	152.60939	11.52823	0.2424459	0.27447118	2.3449750	20	4 10.9	20.2
307597 2003 OA_{32}	16.7	X	173.46146	70.94246	291.81581	5.58794	0.1464303	0.26935022	2.3746038	20	2 26.0	20.4
307598 2003 PC	15.7	X	213.48096	10.20988	314.83264	15.83160	0.2296056	0.21048888	2.7988735	20	2 19.9	20.7
307599 2003 QK_{8}	16.6	X	244.46018	16.63293	280.45216	4.82980	0.1571057	0.27065598	2.3669602	20	2 11.4	20.1
307600 2003 QO_{23}	16.3	X	165.59740	206.63287	145.30996	24.85492	0.2285885	0.26582754	2.3955362	20	2 12.9	20.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
307601 2003 QT_{30}	17.6	X	188.95473	152.15131	162.16606	26.62907	0.0950549	0.37974036	1.8886213	20	—	—
307602 2003 QT_{31}	17.0	X	164.13901	89.59361	264.66845	1.67067	0.1899224	0.26453824	2.4033134	20	2 11.5	20.6
307603 2003 QE_{37}	16.5	X	137.82241	18.37101	3.06619	7.02803	0.1184269	0.26379499	2.4078256	20	2 14.6	19.8
307604 2003 QS_{37}	16.9	X	121.17029	29.83895	320.86779	3.79171	0.1942491	0.25620134	2.4551712	20	—	—
307605 2003 QY_{51}	16.4	X	119.44900	30.12314	343.28959	13.61657	0.1750209	0.25953413	2.4341073	20	1 23.2	19.8
307606 2003 QS_{52}	16.7	X	114.97478	259.17050	120.92450	4.31426	0.2441893	0.25905302	2.4371202	20	2 1.7	19.7
307607 2003 QP_{54}	16.4	X	42.17591	197.75485	136.15914	8.90758	0.1873171	0.24163963	2.5528420	20	12 17.9	20.0
307608 2003 QR_{57}	15.1	X	76.07886	107.94938	164.01475	16.05873	0.0197557	0.17804717	3.1292914	20	10 9.1	19.6
307609 2003 QX_{63}	15.9	X	332.63265	328.52306	21.32027	13.14516	0.3010654	0.22918623	2.6445008	20	9 7.9	17.6
307610 2003 QR_{65}	17.1	X	128.03691	286.21735	93.94865	3.69675	0.1703199	0.26083316	2.4260189	20	2 7.3	20.4
307611 2003 QX_{76}	14.7	X	82.50390	285.01229	344.93903	23.06245	0.2081908	0.18008585	3.1056295	20	10 22.6	19.9
307612 2003 QB_{77}	15.3	X	330.68491	55.99058	333.47349	14.52684	0.0930353	0.17670642	3.1451003	20	10 9.8	19.5
307613 2003 QB_{80}	17.2	X	197.35033	44.10124	295.85773	5.46752	0.1316617	0.26935483	2.3745767	20	2 20.5	21.0
307614 2003 QQ_{80}	17.7	X	150.06726	189.01249	163.21287	1.34052	0.2064950	0.26186000	2.4196726	20	1 28.9	21.4
307615 2003 QR_{82}	16.7	X	146.13526	295.73683	115.58879	3.43389	0.3161170	0.26762528	2.3847963	20	4 16.7	20.8
307616 2003 QW_{90}	5.0	X	284.39629	85.59308	17.75576	10.35102	0.0734111	0.00339658	43.8303677	20	10 12.9	21.3
307617 2003 QK_{109}	17.0	X	76.12335	359.75106	20.40710	5.44305	0.1760086	0.25337685	2.4733833	20	—	—
307618 2003 RC_{22}	16.6	X	122.47694	92.91032	282.39380	6.19036	0.1629871	0.25893416	2.4378659	20	1 23.0	19.7
307619 2003 RL_{27}	17.0	X	14.81447	82.55130	317.58674	6.31616	0.1551793	0.24237074	2.5477057	20	—	—
307620 2003 SS_{12}	17.6	X	93.38491	189.00548	182.35650	3.80829	0.2609580	0.25290134	2.4764827	20	—	—
307621 2003 SW_{37}	17.1	X	196.20288	254.88844	69.54990	4.16101	0.1386956	0.26468327	2.4024354	20	2 3.8	20.7
307622 2003 SX_{41}	16.1	X	303.75629	338.35583	0.60143	16.98265	0.2758956	0.22394051	2.6856388	20	5 29.0	19.7
307623 2003 SL_{47}	16.8	X	285.15372	18.41569	341.37674	6.47421	0.1214334	0.28254731	2.3000747	20	7 3.4	19.4
307624 2003 SG_{53}	17.7	X	58.54727	82.12635	295.91665	5.04676	0.2889262	0.24581323	2.5238636	20	—	—
307625 2003 SG_{57}	16.7	X	99.05311	15.93237	24.39590	2.73127	0.1955961	0.25768247	2.4457542	20	2 1.3	19.5
307626 2003 SS_{76}	16.7	X	101.47690	181.93592	214.37229	8.18891	0.2219653	0.25676602	2.4515703	20	1 30.7	19.9
307627 2003 SE_{78}	16.9	X	191.26962	89.16679	235.09001	4.53803	0.1231505	0.26310724	2.4120197	20	1 26.8	20.6
307628 2003 SF_{83}	17.3	X	111.46159	355.48465	32.21058	1.99329	0.1899960	0.25741234	2.4474649	20	1 31.1	20.5
307629 2003 SE_{84}	17.4	X	127.54826	112.26688	231.76916	9.46929	0.2780314	0.25604946	2.4561420	20	1 4.3	21.0
307630 2003 SO_{85}	17.4	X	160.60638	145.80931	195.73039	21.13780	0.0805624	0.37835379	1.8932327	20	—	—
307631 2003 SY_{92}	16.8	X	130.94155	149.07639	292.99575	2.61296	0.2255752	0.26500255	2.4005054	20	5 3.5	20.5
307632 2003 SU_{107}	16.5	X	214.67206	41.68144	267.95406	3.33834	0.1491421	0.26337413	2.4103899	20	1 31.9	20.4
307633 2003 SH_{110}	16.8	X	275.48688	319.00978	11.51856	7.79758	0.2235133	0.27670041	2.3323632	20	4 19.2	20.1
307634 2003 SK_{114}	16.9	X	155.34093	14.24733	322.97698	2.79054	0.0951801	0.25954746	2.4340240	20	1 4.9	20.1
307635 2003 SX_{115}	14.6	X	316.34655	148.99487	250.28860	16.79572	0.2094189	0.17569114	3.1572052	20	9 19.2	18.4
307636 2003 SB_{116}	16.8	X	175.63058	111.78381	225.91587	5.64847	0.1201982	0.26195745	2.4190725	20	1 27.3	20.5
307637 2003 SE_{116}	16.2	X	155.47537	34.99314	287.60314	14.09532	0.1675987	0.25817644	2.4426335	20	—	—
307638 2003 SC_{120}	15.7	X	119.14048	178.80310	176.27012	2.73044	0.0798304	0.19633021	2.9318694	20	—	—
307639 2003 SA_{121}	16.9	X	91.06019	176.05310	106.79842	7.59106	0.1619479	0.30104800	2.2048492	20	12 13.1	20.2
307640 2003 SM_{121}	16.9	X	145.05272	179.38679	246.25513	3.63382	0.2011746	0.20955755	2.8071601	20	4 25.7	21.5
307641 2003 SK_{130}	17.1	X	144.10349	146.77483	200.04814	15.99432	0.2043404	0.25911223	2.4367489	20	1 13.8	21.1
307642 2003 SU_{138}	14.5	X	234.55255	78.85393	301.61395	7.51015	0.1274443	0.15633812	3.4126582	20	5 22.9	19.8
307643 2003 SH_{144}	17.5	X	53.77922	92.25729	278.97592	2.76185	0.2274097	0.24631251	2.5204518	20	—	—
307644 2003 SH_{148}	15.5	X	213.80921	283.84863	63.71408	8.86945	0.3664002	0.21217787	2.7840006	20	3 21.2	21.0
307645 2003 SO_{154}	17.0	X	23.65393	68.58978	322.00794	3.87783	0.2409700	0.24210021	2.5496033	20	—	—
307646 2003 SH_{156}	17.5	X	133.31923	57.89746	277.16030	1.42527	0.2225588	0.25466110	2.4650608	20	—	—
307647 2003 SK_{158}	16.5	X	38.28673	159.96266	163.55152	12.22490	0.2030937	0.23851629	2.5750798	20	12 3.0	20.2
307648 2003 SE_{160}	16.4	X	116.28924	169.83491	228.78309	6.01486	0.1149322	0.25962618	2.4335320	20	2 5.9	19.6
307649 2003 SW_{173}	16.5	X	29.29245	145.69762	165.69395	14.06705	0.1770916	0.23567395	2.5957428	20	11 2.3	19.9
307650 2003 SR_{176}	16.9	X	225.66895	172.31990	146.13456	1.75270	0.1889967	0.26858248	2.3791268	20	2 21.1	20.5
307651 2003 SR_{180}	16.6	X	351.87273	313.90927	339.54622	10.81719	0.1961707	0.22651679	2.6652367	20	7 24.8	19.0
307652 2003 SD_{181}	16.5	X	178.66172	29.70886	359.68622	6.74255	0.1464540	0.26855840	2.3792690	20	4 5.9	20.2
307653 2003 SW_{188}	16.5	X	91.13591	259.05035	46.71155	8.34791	0.2341555	0.24509058	2.5288222	20	—	—
307654 2003 SN_{196}	16.4	X	93.68401	62.03504	252.74930	4.63390	0.1760647	0.30288559	2.1959223	20	—	—
307655 2003 SR_{197}	16.8	X	142.30906	209.75056	163.33872	6.68802	0.1057066	0.26081042	2.4261599	20	2 4.5	20.1
307656 2003 SX_{198}	16.5	X	349.13319	131.36416	233.56320	11.21961	0.1698074	0.23293288	2.6160669	20	11 2.0	19.1
307657 2003 SE_{208}	16.7	X	218.04020	101.66597	219.30942	5.90934	0.1443879	0.26934198	2.3746522	20	2 15.9	20.5
307658 2003 SA_{215}	15.2	X	153.53514	160.54475	322.96447	27.64092	0.0951322	0.21861488	2.7290798	20	7 18.7	19.6
307659 2003 SG_{216}	17.2	X	133.79854	341.86084	15.55423	1.40247	0.1761551	0.25729698	2.4481964	20	1 16.5	20.5
307660 2003 SB_{220}	15.8	X	88.67780	315.73593	87.05789	5.22875	0.5508243	0.19292327	2.9662857	20	3 20.9	20.6
307661 2003 SC_{244}	16.7	X	228.54235	178.70284	42.75975	2.38722	0.0630414	0.24795122	2.5093344	20	—	—
307662 2003 SS_{254}	16.8	X	24.58595	46.44036	357.45486	3.45332	0.0736140	0.24556284	2.5255789	20	—	—
307663 2003 SG_{260}	15.3	X	38.36793	3.46352	317.65211	8.01084	0.0770650	0.17981921	3.1086988	20	10 24.3	19.7
307664 2003 SD_{277}	17.1	X	23.30314	136.60967	256.21146	4.87257	0.1966504	0.24297353	2.5434902	20	—	—
307665 2003 SM_{290}	17.4	X	203.95809	82.97228	242.09498	1.34183	0.2160192	0.26331745	2.4107358	20	2 10.8	21.6
307666 2003 SP_{294}	17.0	X	44.29653	195.07665	175.71665	6.14901	0.2561890	0.24195755	2.5506053	20	—	—
307667 2003 SS_{301}	16.6	X	89.30381	1.61757	29.07850	7.01892	0.1239081	0.25524825	2.4612791	20	—	—
307668 2003 SP_{305}	16.0	X	48.89060	46.30431	277.02730	12.26994	0.1835703	0.23770064	2.5809672	20	12 10.3	19.6
307669 2003 SW_{306}	17.2	X	37.38781	152.16566	224.70011	13.17719	0.2097315	0.24174797	2.5520793	20	—	—
307670 2003 SK_{307}	16.4	X	319.24110	44.91316	315.61023	12.82901	0.1940383	0.22714748	2.6603009	20	8 18.5	19.0
307671 2003 SC_{313}	16.9	X	59.14644	144.88042	224.30689	7.93947	0.2242465	0.24563110	2.5251110	20	—	—
307672 2003 SD_{315}	17.7	X	99.14657	131.11628	309.27277	20.25475	0.1185856	0.38157345	1.8825678	20	2 18.1	19.3
307673 2003 SG_{320}	17.3	X	238.81363	52.39735	238.06367	6.10234	0.1029813	0.26651199	2.3914330	20	1 31.3	21.0
307674 2003 SU_{324}	17.5	X	160.73081	310.97149	355.02346	6.41283	0.1801872	0.25639866	2.4539114	20	—	—
307675 2003 SP_{327}	17.3	X	232.60928	71.32205	216.49942	4.13178	0.1642796	0.26551270	2.3974295	20	1 20.8	21.2
307676 2003 SV_{331}	17.8	X	75.65627	229.74438	112.00446	1.51614	0.1952505	0.24604254	2.5222952	20	—	—
307677 2003 SA_{333}	16.8	X	57.12228	269.63556	114.96509	7.27273	0.2936497	0.24336778	2.5407426	20	—	—
307678 2003 SR_{333}	17.5	X	92.68720	40.77183	10.98233	2.38931	0.1871346	0.25738668	2.4476275	20	2 6.0	20.2
307679 2003 ST_{352}	17.1	X	220.58197	120.99068	183.41724	6.45540	0.1302696	0.26402177	2.4064466	20	1 30.5	20.9
307680 2003 SG_{355}	17.4	X	181.71196	220.50787	72.39439	4.38528	0.1564627	0.25647622	2.4534167	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
307681 2003 SA_{425}	17.8	X	27.85358	176.23137	344.51760	0.67365	0.1290841	0.26650675	2.3914643	20	3 8.4	20.0
307682 2003 TF_{1}	16.8	X	1.33279	129.15289	297.16853	11.69930	0.2420800	0.24191715	2.5508893	20	—	—
307683 2003 TU_{7}	16.9	X	78.48321	286.36527	50.23771	21.80972	0.0883655	0.36135589	1.9521475	20	—	—
307684 2003 TD_{11}	17.2	X	80.68326	256.47963	138.17741	6.04057	0.2635747	0.25131707	2.4868794	20	1 5.9	19.5
307685 2003 TF_{49}	16.6	X	212.57636	23.63663	270.22099	6.02484	0.1079686	0.25761714	2.4461676	20	1 11.6	20.4
307686 2003 US_{3}	17.2	X	35.63264	19.73422	353.33041	7.32048	0.0918149	0.24208221	2.5497296	20	—	—
307687 2003 UV_{6}	18.0	X	218.22294	145.63583	238.37839	20.11776	0.0873901	0.38979820	1.8559923	20	5 9.4	20.1
307688 2003 UW_{7}	17.8	X	25.20673	220.98929	155.47951	5.24459	0.2908874	0.24102907	2.5571514	20	—	—
307689 2003 UG_{8}	18.4	X	96.05181	2.99684	36.56007	22.51861	0.0859896	0.37215834	1.9141863	20	—	—
307690 2003 UD_{11}	17.5	X	231.45143	47.93543	242.76039	4.21720	0.2134451	0.26939358	2.3743490	20	1 21.6	21.6
307691 2003 UL_{14}	17.3	X	101.80531	298.74518	70.60004	8.87799	0.2389908	0.25250414	2.4790791	20	1 1.7	20.2
307692 2003 UR_{16}	16.3	X	27.09594	349.80006	46.81181	5.61608	0.1396434	0.23976718	2.5661157	20	—	—
307693 2003 UM_{19}	17.2	X	11.01938	131.22400	259.32984	5.74010	0.2183647	0.23966546	2.5668416	20	—	—
307694 2003 UW_{22}	16.5	X	86.65185	169.54844	183.20408	0.45717	0.2845631	0.18776077	3.0204117	20	—	—
307695 2003 UG_{29}	16.7	X	45.23294	359.68637	36.03577	1.95557	0.1246262	0.24451435	2.5327937	20	—	—
307696 2003 UP_{38}	15.3	X	49.05071	328.13772	13.95603	12.78875	0.0791483	0.17706323	3.1408737	20	12 2.9	19.9
307697 2003 US_{39}	17.3	X	52.58377	236.06278	166.43370	1.38142	0.1313025	0.24651019	2.5191042	20	—	—
307698 2003 UU_{44}	16.8	X	253.37093	334.25529	33.37863	8.35359	0.1357293	0.27743070	2.3282683	20	5 25.5	20.0
307699 2003 UP_{53}	17.2	X	248.89489	64.28923	235.51007	20.65929	0.0322286	0.38245216	1.8796831	20	2 5.9	19.8
307700 2003 UC_{61}	16.2	X	186.27432	271.14271	70.46713	7.73663	0.1044593	0.26307641	2.4122081	20	2 16.3	19.8
307701 2003 UX_{70}	17.0	X	54.58945	13.73351	6.77537	2.01737	0.1540719	0.24336439	2.5407662	20	—	—
307702 2003 UJ_{73}	16.7	X	140.51260	259.15504	53.90477	1.98560	0.0591749	0.24721847	2.5142904	20	—	—
307703 2003 UH_{74}	15.0	X	49.79583	278.97010	90.24505	9.75498	0.1795160	0.12511751	3.9590470	20	—	—
307704 2003 UH_{75}	17.2	X	298.03874	251.43481	211.04494	20.67902	0.0823347	0.35768117	1.9654952	20	—	—
307705 2003 UR_{78}	14.9	X	92.36050	279.98701	9.71721	25.29869	0.2658268	0.18172168	3.0869639	20	12 2.1	20.5
307706 2003 UV_{80}	16.8	X	80.47856	200.99510	129.68834	8.48819	0.2377369	0.24349670	2.5398457	20	—	—
307707 2003 UG_{86}	16.3	X	49.78823	138.15489	249.67731	8.10619	0.0907958	0.24291827	2.5438760	20	—	—
307708 2003 UN_{92}	16.4	X	24.89682	83.81932	347.00734	5.24533	0.1007643	0.24660699	2.5184449	20	—	—
307709 2003 UO_{92}	16.5	X	30.36926	135.90763	225.79272	11.77510	0.2103619	0.23912036	2.5707412	20	—	—
307710 2003 UF_{93}	16.7	X	29.55021	228.85455	230.68616	5.59634	0.0660087	0.25403478	2.4691109	20	—	—
307711 2003 UR_{95}	17.1	X	114.82199	25.43983	29.54102	1.41848	0.1821543	0.25955553	2.4339736	20	3 9.3	20.4
307712 2003 UX_{97}	17.4	X	70.47683	133.30439	205.99636	13.96545	0.2268177	0.24348559	2.5399229	20	—	—
307713 2003 UJ_{119}	17.2	X	32.77592	114.18036	253.70560	15.70028	0.2523718	0.24135005	2.5548836	20	—	—
307714 2003 UG_{141}	16.5	X	175.29791	286.85456	85.33647	7.93507	0.1334836	0.26625417	2.3929765	20	3 16.9	20.2
307715 2003 UT_{142}	15.2	X	103.47634	127.58619	249.24793	9.33004	0.1218717	0.19263702	2.9692235	20	1 6.3	19.3
307716 2003 UY_{144}	16.1	X	29.45141	336.11699	45.12333	9.04560	0.1626884	0.23916317	2.5704343	20	—	—
307717 2003 UM_{148}	16.8	X	35.20644	303.21186	120.33602	5.41349	0.1877196	0.24590675	2.5232237	20	—	—
307718 2003 UX_{151}	16.9	X	84.42043	143.78240	245.07631	7.57262	0.1980815	0.25096007	2.4892373	20	—	—
307719 2003 UA_{152}	16.2	X	90.18454	2.91371	350.40196	6.25888	0.0704289	0.24633988	2.5202651	20	—	—
307720 2003 UZ_{158}	16.7	X	247.24002	216.74085	45.31250	8.28362	0.0735350	0.25539354	2.4603456	20	1 11.2	20.3
307721 2003 UC_{167}	16.4	X	29.84783	104.88649	254.14929	8.55678	0.1033485	0.23708639	2.5854231	20	12 20.5	19.7
307722 2003 UM_{167}	15.0	X	96.68877	57.98072	251.44566	13.32012	0.1561451	0.18200696	3.0837374	20	12 26.1	20.0
307723 2003 UX_{170}	17.0	X	41.91280	4.80423	22.30653	9.44650	0.1539167	0.24366427	2.5386811	20	—	—
307724 2003 UZ_{170}	16.4	X	28.59679	115.35384	218.12471	14.05466	0.1724905	0.23506837	2.6001990	20	11 26.5	19.8
307725 2003 UT_{172}	16.6	X	122.04577	312.99108	105.63375	7.52181	0.1621884	0.26008366	2.4306775	20	3 23.2	20.1
307726 2003 UM_{176}	17.3	X	75.58403	4.19011	1.49308	3.56789	0.1361840	0.24752334	2.5122255	20	—	—
307727 2003 UO_{181}	17.1	X	358.04973	208.08539	199.00226	8.41429	0.1914391	0.23826670	2.5768777	20	—	—
307728 2003 UV_{190}	17.3	X	69.02774	290.38689	58.49436	8.12408	0.2730975	0.24409111	2.5357206	20	—	—
307729 2003 UC_{195}	17.2	X	42.96818	121.36489	274.59773	2.06228	0.2309289	0.24388819	2.5371270	20	—	—
307730 2003 UT_{195}	16.2	X	87.60125	243.73593	129.66675	2.60382	0.0565492	0.24729837	2.5137488	20	—	—
307731 2003 US_{196}	17.9	X	46.21076	340.54917	20.20743	2.71595	0.2455368	0.24179849	2.5517238	20	—	—
307732 2003 UJ_{198}	17.2	X	37.88054	0.12452	53.46923	6.22996	0.1789022	0.24642777	2.5196659	20	—	—
307733 2003 UN_{200}	16.9	X	37.89797	180.81080	206.38812	14.81829	0.1243812	0.24299610	2.5433327	20	—	—
307734 2003 UW_{201}	17.1	X	4.90474	329.80955	62.30133	5.26950	0.2112573	0.23799822	2.5788153	20	—	—
307735 2003 UF_{217}	17.6	X	79.04255	336.11109	63.13465	4.77874	0.2570142	0.25150953	2.4856106	20	1 9.1	19.9
307736 2003 UC_{227}	16.8	X	88.63831	357.50067	354.13906	5.06137	0.1638860	0.24654375	2.5188756	20	—	—
307737 2003 UH_{228}	16.4	X	19.24324	321.91184	119.19246	4.06546	0.0952643	0.24638014	2.5199906	20	—	—
307738 2003 US_{229}	17.5	X	57.30224	6.53309	7.61346	4.20883	0.2192288	0.24457194	2.5323961	20	—	—
307739 2003 UW_{232}	15.8	X	16.87522	167.14738	215.73705	4.48838	0.1324263	0.18003088	3.1062618	20	12 21.6	19.8
307740 2003 UJ_{234}	16.1	X	53.79850	327.98168	41.03564	10.41721	0.1193358	0.24096278	2.5576203	20	—	—
307741 2003 UV_{239}	15.1	X	28.36344	293.66628	30.69407	16.90898	0.1846011	0.17572066	3.1568515	20	10 31.3	19.1
307742 2003 UY_{259}	16.1	X	89.31955	234.18280	141.28880	4.28959	0.0573120	0.24716197	2.5146735	20	—	—
307743 2003 UG_{264}	17.0	X	358.69568	312.25831	123.46906	4.25745	0.1790279	0.24124816	2.5556029	20	—	—
307744 2003 UE_{266}	15.2	X	30.39608	347.43603	52.56526	3.54644	0.2796900	0.12338848	3.9959463	20	—	—
307745 2003 UG_{271}	16.8	X	164.63056	278.07424	73.86859	11.02996	0.2713421	0.26155958	2.4215250	20	2 19.6	21.1
307746 2003 UR_{277}	16.8	X	127.27203	303.74644	72.12448	2.90199	0.1792642	0.25795176	2.4440517	20	2 2.4	20.0
307747 2003 UO_{279}	16.5	X	52.36892	2.52642	91.82186	5.18021	0.2493870	0.25378196	2.4707505	20	2 1.9	18.1
307748 2003 UJ_{280}	16.1	X	197.11687	312.42306	91.55718	9.10063	0.2298058	0.21032086	2.8003640	20	5 15.3	21.0
307749 2003 UX_{308}	17.1	X	181.09071	262.79648	52.26665	2.89047	0.1547875	0.25746029	2.4471610	20	1 9.8	20.9
307750 2003 UT_{316}	16.9	X	93.88980	340.19264	116.55962	3.43187	0.1401138	0.25940200	2.4349339	20	4 2.5	19.8
307751 2003 UR_{322}	17.5	X	228.17602	155.29225	114.92480	2.69211	0.0912158	0.25794418	2.4440996	20	—	—
307752 2003 UA_{333}	18.0	X	55.62717	155.83256	220.33467	1.74575	0.2029871	0.24728014	2.5138723	20	—	—
307753 2003 UB_{334}	17.8	X	85.30439	145.39465	286.90018	0.58168	0.1656591	0.25937615	2.4350957	20	2 18.1	20.5
307754 2003 UW_{335}	17.0	X	268.97596	21.79680	189.27150	1.91049	0.1200978	0.25640972	2.4538408	20	—	—
307755 2003 UF_{357}	15.6	X	45.98900	8.41030	19.99549	2.88658	0.2268084	0.12545629	3.9519165	20	—	—
307756 2003 UG_{357}	16.7	X	183.39601	190.18087	31.14132	5.55693	0.1536896	0.23998495	2.5645630	20	12 10.7	20.6
307757 2003 UU_{376}	16.9	X	254.45817	296.99884	260.24700	0.53249	0.1365040	0.25166237	2.4846041	20	—	—
307758 2003 UD_{391}	16.8	X	254.40395	120.70208	65.46445	2.28544	0.0502387	0.24428494	2.5343792	20	—	—
307759 2003 UN_{401}	17.6	X	283.40357	29.64764	220.87644	6.58375	0.0615955	0.26696261	2.3887411	20	2 3.8	20.8
307760 2003 UY_{401}	17.7	X	259.99899	46.66794	221.76189	3.88709	0.0817825	0.26588000	2.3952211	20	1 28.9	21.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
307761 2003 VF	16.3	X	53.24092	47.36041	291.07508	12.95146	0.1599312	0.23828621	2.5767371	20	12 31.5	20.0
307762 2003 VC_{1}	16.4	X	23.19717	73.87259	21.43680	25.64809	0.3184564	0.24297169	2.5435031	20	—	—
307763 2003 VJ_{3}	16.1	X	144.57993	40.04230	236.46103	9.28250	0.1181804	0.24139912	2.5545374	20	—	—
307764 2003 VF_{10}	17.3	X	131.94118	139.90504	237.75938	19.70601	0.0949911	0.37378820	1.9086179	20	1 2.9	19.4
307765 2003 VH_{10}	16.1	X	90.63055	331.56684	4.63218	10.56660	0.1254388	0.24267051	2.5456072	20	—	—
307766 2003 VN_{12}	16.2	X	30.88854	38.74212	314.10324	11.21591	0.1659456	0.23596968	2.5935736	20	12 23.9	19.8
307767 2003 WX_{4}	16.6	X	77.11678	80.12515	296.87418	5.03518	0.0673735	0.24605618	2.5222020	20	—	—
307768 2003 WT_{10}	16.9	X	85.11607	25.55146	323.85499	5.49342	0.1307916	0.24371360	2.5383385	20	—	—
307769 2003 WG_{25}	16.5	X	111.42323	5.46915	90.64622	11.74004	0.1924996	0.26011297	2.4304949	20	5 3.9	20.1
307770 2003 WA_{40}	16.7	X	83.25682	15.81668	323.78351	3.54940	0.1677803	0.24334769	2.5408824	20	—	—
307771 2003 WS_{42}	14.4	X	5.26322	135.30928	271.49530	27.42633	0.4233272	0.17605493	3.1528544	20	—	—
307772 2003 WL_{46}	17.9	X	26.67539	179.23880	211.90907	2.35826	0.2374407	0.24147730	2.5539860	20	—	—
307773 2003 WW_{50}	17.9	X	145.34069	286.07462	228.83511	2.36861	0.0892357	0.27885393	2.3203395	20	8 15.6	21.2
307774 2003 WF_{55}	15.5	X	42.04370	104.14440	291.60020	1.70741	0.2238409	0.12454170	3.9712405	20	—	—
307775 2003 WM_{55}	16.2	X	123.10104	63.39369	256.56776	13.00738	0.0323241	0.24257250	2.5462928	20	—	—
307776 2003 WZ_{55}	17.1	X	23.69656	358.80899	32.86915	6.04996	0.2498151	0.23953455	2.5677768	20	—	—
307777 2003 WX_{57}	16.5	X	87.66673	117.84935	256.12006	3.07932	0.1063543	0.24717627	2.5145766	20	—	—
307778 2003 WY_{63}	16.9	X	197.59976	325.86217	60.82017	3.54929	0.1763602	0.26727478	2.3868808	20	4 22.5	20.6
307779 2003 WK_{64}	16.4	X	116.78165	272.24975	64.15925	15.37344	0.1181152	0.24580590	2.5239138	20	—	—
307780 2003 WX_{79}	17.4	X	26.30309	53.93516	21.86832	3.00448	0.2161093	0.24466321	2.5317662	20	—	—
307781 2003 WR_{81}	15.2	X	63.05137	245.94011	120.98682	13.16900	0.3316999	0.12602865	3.9399424	20	—	—
307782 2003 WT_{83}	16.4	X	63.20416	332.93845	115.02492	7.21965	0.1881314	0.25535595	2.4605870	20	2 7.3	18.6
307783 2003 WJ_{87}	14.6	X	52.56448	329.28300	34.94828	17.99416	0.4017081	0.18082510	3.0971596	20	—	—
307784 2003 WY_{97}	15.3	X	287.75525	226.18076	291.69263	31.07948	0.2305118	0.23219695	2.6215916	20	—	—
307785 2003 WC_{100}	17.2	X	354.95002	114.24611	298.75085	2.77294	0.1799655	0.23637962	2.5905742	20	—	—
307786 2003 WT_{100}	15.5	X	359.59853	72.16216	337.76188	15.40398	0.2837903	0.18011054	3.1053458	20	—	—
307787 2003 WJ_{103}	17.3	X	357.95446	235.74740	231.67870	3.16741	0.2649167	0.24219646	2.5489277	20	—	—
307788 2003 WZ_{104}	16.9	X	13.97535	60.66385	352.16397	2.00184	0.1026091	0.23889996	2.5723220	20	—	—
307789 2003 WN_{107}	15.7	X	22.58737	56.81702	41.09296	16.69229	0.1820682	0.24328767	2.5413003	20	—	—
307790 2003 WD_{109}	17.5	X	68.73940	321.93368	42.53007	11.58637	0.2585099	0.24524689	2.5277476	20	—	—
307791 2003 WZ_{115}	16.1	X	272.39665	178.10016	265.58334	12.32958	0.1482947	0.22646461	2.6656461	20	9 23.9	19.8
307792 2003 WO_{116}	15.7	X	45.93834	83.34540	303.00738	2.30603	0.2891894	0.12275549	4.0096714	20	—	—
307793 2003 WW_{116}	15.9	X	242.54374	189.78702	268.79679	11.24406	0.1206320	0.22331347	2.6906638	20	9 7.5	20.0
307794 2003 WO_{117}	16.2	X	352.31788	204.77719	288.57161	4.33345	0.1803455	0.24504535	2.5291334	20	—	—
307795 2003 WV_{122}	16.3	X	335.08839	227.52577	268.94629	13.94593	0.1256488	0.24367927	2.5385769	20	—	—
307796 2003 WH_{123}	16.3	X	9.79842	174.42844	297.48069	5.51993	0.1467311	0.24541401	2.5266000	20	—	—
307797 2003 WP_{123}	16.8	X	45.94377	70.45923	309.35890	4.42188	0.2933614	0.24162729	2.5529290	20	—	—
307798 2003 WX_{124}	15.6	X	246.57985	213.22952	274.41240	21.23218	0.0316482	0.22717535	2.6600834	20	11 6.1	19.6
307799 2003 WD_{126}	16.9	X	355.62380	94.03622	20.38791	5.95190	0.2272196	0.24073578	2.5592279	20	—	—
307800 2003 WD_{128}	16.2	X	87.91050	171.21061	296.20005	21.99875	0.0665179	0.37327278	1.9103744	20	2 26.9	18.4
307801 2003 WF_{131}	16.4	X	118.52367	45.48735	299.34330	3.79219	0.1225981	0.24722432	2.5142507	20	—	—
307802 2003 WD_{137}	16.9	X	30.57451	34.80345	50.34118	2.66988	0.1921862	0.24535398	2.5270120	20	—	—
307803 2003 WM_{137}	16.5	X	53.03521	141.44794	255.85890	7.66775	0.2642105	0.24454278	2.5325973	20	—	—
307804 2003 WV_{139}	17.2	X	97.55302	3.50740	73.06566	23.80946	0.0876359	0.37461288	1.9058157	20	2 25.2	19.6
307805 2003 WQ_{145}	16.1	X	26.32423	306.06742	33.82810	12.64635	0.1121741	0.23254375	2.6189846	20	11 18.9	19.4
307806 2003 WJ_{146}	16.4	X	42.99135	46.37948	344.76896	14.11776	0.1235087	0.24228234	2.5483253	20	—	—
307807 2003 WD_{147}	17.7	X	271.44943	153.86748	252.19890	3.51421	0.1593428	0.28166760	2.3048612	20	8 11.3	20.2
307808 2003 WZ_{150}	16.9	X	24.37376	332.98666	103.34844	6.29711	0.1680037	0.24459282	2.5322520	20	—	—
307809 2003 WU_{157}	17.1	X	67.13538	302.88722	91.37289	23.61715	0.1385405	0.36431944	1.9415466	20	—	—
307810 2003 WR_{171}	16.4	X	354.07154	240.24942	213.20665	14.46735	0.0826555	0.24250961	2.5467330	20	—	—
307811 2003 WY_{171}	15.3	X	49.23660	272.24338	149.22306	14.45247	0.1175876	0.24628122	2.5206653	20	—	—
307812 2003 WQ_{181}	18.1	X	1.54706	176.28829	244.78336	0.69885	0.1507342	0.24182123	2.5515638	20	—	—
307813 2003 WA_{189}	16.6	X	357.95412	244.61487	174.30426	14.29720	0.2556452	0.23789126	2.5795883	20	—	—
307814 2003 WK_{193}	17.7	X	129.95152	9.96890	359.18814	7.34073	0.1379101	0.25903693	2.4372211	20	1 23.6	21.0
307815 2003 WU_{193}	17.8	X	62.69118	297.19392	84.51106	1.22619	0.2059449	0.24450877	2.5328322	20	—	—
307816 2003 WT_{194}	17.7	X	309.04711	129.31895	10.89169	19.40408	0.0625861	0.36851537	1.9267808	20	—	—
307817 2003 XM_{2}	16.8	X	50.66253	222.32947	183.80060	2.90255	0.2345528	0.24543685	2.5264432	20	—	—
307818 2003 XY_{12}	16.9	X	190.32546	159.77970	306.88911	21.89237	0.0424445	0.39396077	1.8428956	20	8 12.4	18.6
307819 2003 XZ_{14}	15.8	X	327.41940	31.43448	72.20605	33.82441	0.2102189	0.23383324	2.6093473	20	—	—
307820 2003 XJ_{15}	17.1	X	98.12553	112.80538	282.37420	17.51144	0.1041036	0.36740347	1.9306663	20	—	—
307821 2003 XQ_{35}	16.8	X	289.28795	92.06500	318.44652	7.78746	0.0744344	0.28415558	2.2913878	20	9 28.8	19.3
307822 2003 XO_{38}	16.6	X	17.91812	12.05840	51.93415	8.39028	0.1914661	0.24049453	2.5609391	20	—	—
307823 2003 YT_{4}	16.5	X	129.01867	177.06349	146.00508	4.54478	0.1484614	0.24588497	2.5233727	20	—	—
307824 2003 YV_{4}	17.1	X	38.18032	315.26955	106.64968	7.83983	0.2312668	0.24481911	2.5306913	20	—	—
307825 2003 YT_{10}	15.3	X	119.00142	295.13743	55.27584	11.39377	0.1861742	0.24626181	2.5207977	20	—	—
307826 2003 YC_{11}	17.4	X	14.88706	29.88256	62.47879	10.38361	0.2747180	0.24238579	2.5476002	20	—	—
307827 2003 YZ_{17}	16.6	X	301.99266	203.17477	287.57883	12.39551	0.1997580	0.23268334	2.6179370	20	—	—
307828 2003 YV_{24}	17.2	X	285.39094	42.84997	50.27371	6.08092	0.1125522	0.28773894	2.2723242	20	11 25.9	19.4
307829 2003 YB_{26}	16.9	X	24.50341	47.27922	95.93058	24.39388	0.0931495	0.36923886	1.9242631	20	1 10.8	18.2
307830 2003 YQ_{40}	17.1	X	296.69087	40.35473	96.09705	4.11450	0.0534813	0.23354807	2.6114709	20	—	—
307831 2003 YK_{44}	17.0	X	37.80043	107.20408	300.45085	3.93927	0.2281815	0.23940039	2.5687361	20	—	—
307832 2003 YL_{46}	16.8	X	39.63841	76.21501	331.42311	5.30085	0.1310884	0.24026175	2.5625930	20	—	—
307833 2003 YG_{48}	16.9	X	31.49437	35.10777	49.36947	2.06872	0.1592955	0.24498106	2.5295759	20	—	—
307834 2003 YY_{52}	17.4	X	135.26427	333.68609	59.53420	23.11125	0.0873055	0.37884748	1.8915876	20	2 15.5	20.0
307835 2003 YF_{60}	17.1	X	64.71460	92.10320	252.98398	12.25709	0.3052821	0.24092674	2.5578754	20	—	—
307836 2003 YV_{65}	16.5	X	68.33020	93.20320	298.53770	1.75889	0.1349914	0.24414496	2.5353478	20	—	—
307837 2003 YF_{72}	16.4	X	30.41672	14.57992	70.64340	9.61426	0.0405522	0.24495262	2.5297717	20	—	—
307838 2003 YW_{86}	16.5	X	21.42117	341.26487	116.84744	6.48707	0.1710245	0.24407586	2.5358263	20	—	—
307839 2003 YR_{91}	16.0	X	348.33360	2.94632	111.98851	6.85680	0.2669979	0.23580428	2.5947863	20	—	—
307840 2003 YA_{105}	14.6	X	298.01402	280.48279	297.26105	20.11179	0.4123095	0.17598307	3.1537127	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
307841 2003 YL_{105}	16.3	X	282.80600	104.08805	69.34349	10.36021	0.1452002	0.23782651	2.5800565	20	—	—
307842 2003 YE_{107}	16.4	X	45.11168	247.21209	120.15036	12.83154	0.3386164	0.23638554	2.5905309	20	—	—
307843 2003 YR_{113}	16.9	X	7.42553	81.47667	0.75238	5.44821	0.1592257	0.23755841	2.5819972	20	—	—
307844 2003 YJ_{121}	17.3	X	190.53692	85.26139	320.27581	19.22504	0.0921346	0.38027869	1.8868385	20	4 25.8	20.2
307845 2003 YV_{122}	16.0	X	36.37017	302.04675	81.50835	31.56007	0.0619547	0.23780786	2.5801913	20	—	—
307846 2003 YA_{129}	15.9	X	343.44106	53.80224	70.26878	8.29194	0.1513798	0.23825259	2.5769795	20	—	—
307847 2003 YN_{130}	15.9	X	73.08087	19.63579	5.67009	3.74902	0.1764746	0.24361497	2.5390236	20	—	—
307848 2003 YR_{141}	15.7	X	15.44338	71.76063	62.67133	14.57483	0.0900321	0.24764020	2.5114351	20	1 13.9	18.7
307849 2003 YF_{144}	16.0	X	19.43875	94.86559	40.14572	3.46506	0.0901449	0.24600986	2.5225186	20	1 21.4	18.9
307850 2003 YY_{144}	16.3	X	354.36188	126.74050	18.67445	8.26134	0.0716255	0.24404405	2.5360466	20	—	—
307851 2003 YT_{146}	16.7	X	342.12760	29.77945	83.07057	13.58577	0.2289952	0.23582866	2.5946075	20	—	—
307852 2003 YS_{151}	15.8	X	111.09240	307.82103	50.06802	8.26081	0.2231796	0.24417223	2.5351590	20	—	—
307853 2003 YL_{154}	16.3	X	31.98002	121.98033	4.24821	12.21377	0.1279366	0.24626671	2.5207643	20	2 3.5	19.0
307854 2003 YG_{158}	16.1	X	71.65214	15.66723	6.53485	11.68423	0.1185030	0.24524576	2.5277554	20	—	—
307855 2003 YU_{180}	16.4	X	53.06071	9.76332	23.35483	3.77327	0.2013191	0.23911310	2.5707932	20	—	—
307856 2004 AF_{5}	17.2	X	313.55767	50.94701	68.13731	4.20018	0.1927320	0.23242609	2.6198683	20	—	—
307857 2004 AJ_{8}	17.2	X	122.07544	342.86860	112.17188	24.55392	0.1071143	0.38176775	1.8819290	20	5 8.3	20.0
307858 2004 AT_{8}	16.5	X	283.45043	228.32698	275.87703	12.00549	0.2089852	0.22957141	2.6415420	20	—	—
307859 2004 AV_{8}	16.2	X	316.98171	44.28482	161.87365	12.27398	0.1752646	0.24360722	2.5390774	20	1 8.5	19.8
307860 2004 AY_{18}	17.0	X	209.67131	98.03116	136.12786	4.61679	0.0396062	0.23461550	2.6035439	20	—	—
307861 2004 AY_{26}	16.0	X	330.34160	60.93659	72.62988	14.30035	0.1170604	0.23548772	2.5971112	20	—	—
307862 2004 BW_{3}	17.4	X	77.09456	41.73189	106.58980	3.16550	0.1462913	0.25697946	2.4502126	20	5 20.9	20.4
307863 2004 BD_{5}	16.8	X	275.37094	157.52756	9.14340	3.89056	0.1081693	0.23225092	2.6211855	20	—	—
307864 2004 BN_{13}	16.7	X	48.29146	45.60172	19.52770	2.96767	0.1847845	0.24199139	2.5503675	20	—	—
307865 2004 BD_{18}	16.0	X	307.67010	112.88960	63.45255	14.69227	0.0554965	0.23952743	2.5678277	20	—	—
307866 2004 BF_{18}	16.0	X	53.61872	18.52217	31.21901	14.13732	0.3029278	0.24212384	2.5494374	20	—	—
307867 2004 BX_{21}	17.2	X	271.14533	336.91996	348.49476	18.97412	0.0350779	0.38024841	1.8869386	20	4 20.0	19.5
307868 2004 BP_{24}	16.9	X	46.04228	89.16229	303.21176	2.90903	0.2565964	0.23839497	2.5759533	20	—	—
307869 2004 BR_{25}	15.9	X	307.60489	117.60623	59.76972	16.05299	0.0438032	0.23959913	2.5673154	20	—	—
307870 2004 BP_{33}	16.9	X	326.51033	353.71615	87.16151	3.38519	0.0724430	0.22902337	2.6457543	20	12 30.2	19.9
307871 2004 BO_{40}	16.9	X	233.68988	292.00435	126.16892	4.10221	0.0099798	0.26822282	2.3812532	20	7 29.8	19.9
307872 2004 BN_{42}	16.2	X	279.59134	257.03904	242.10484	13.67977	0.0872384	0.22950819	2.6420270	20	—	—
307873 2004 BO_{55}	17.8	X	15.45170	288.12054	138.06581	4.27534	0.2672313	0.23732423	2.5836955	20	—	—
307874 2004 BP_{57}	15.9	X	82.53449	142.69488	245.20028	5.66029	0.2862493	0.24414181	2.5353696	20	1 5.3	18.3
307875 2004 BM_{60}	15.8	X	67.49735	26.82095	297.02910	17.36604	0.1971372	0.22809553	2.6529243	20	12 30.8	19.9
307876 2004 BR_{65}	16.8	X	347.21740	317.13364	85.46730	1.95253	0.1531012	0.22852100	2.6496305	20	12 19.2	19.5
307877 2004 BG_{69}	15.9	X	231.98971	276.38241	164.78282	9.90981	0.4163299	0.21231057	2.7828404	20	7 11.8	21.1
307878 2004 BX_{71}	15.8	X	228.40466	287.51247	278.89201	11.52354	0.2155400	0.22894497	2.6463583	20	12 30.7	19.4
307879 2004 BF_{74}	16.9	X	30.77673	296.39256	127.16046	3.85223	0.2393575	0.23917635	2.5703399	20	—	—
307880 2004 BH_{84}	15.8	X	41.80754	179.23706	254.62066	15.64987	0.2034944	0.24136210	2.5547986	20	—	—
307881 2004 BV_{86}	16.1	X	345.93575	227.60588	252.95555	6.60575	0.1669765	0.23680628	2.5874616	20	—	—
307882 2004 BN_{94}	16.1	X	2.74104	128.88883	299.74968	31.19268	0.2835127	0.23453083	2.6041705	20	—	—
307883 2004 BT_{107}	16.2	X	273.31337	184.54404	333.31191	13.55887	0.1832029	0.22949548	2.6421246	20	—	—
307884 2004 BX_{109}	16.7	X	288.40620	257.04318	256.33796	2.26399	0.0468256	0.23261664	2.6184374	20	—	—
307885 2004 BE_{112}	16.2	X	298.03867	88.93821	146.57215	5.80875	0.0926543	0.24605828	2.5221876	20	2 3.4	19.4
307886 2004 BS_{119}	16.1	X	17.47494	335.15926	83.72601	17.16153	0.2415053	0.23466461	2.6031807	20	—	—
307887 2004 BS_{145}	16.3	X	324.01789	157.57879	291.43744	8.32374	0.1164294	0.23210603	2.6222762	20	—	—
307888 2004 BU_{151}	16.6	X	333.51211	88.70753	107.09974	2.15739	0.0453571	0.24668260	2.5179303	20	2 6.7	19.7
307889 2004 BH_{162}	16.6	X	13.62811	357.01188	105.12706	6.12158	0.1875704	0.23796647	2.5790447	20	—	—
307890 2004 BJ_{162}	16.4	X	272.36463	78.02671	89.38021	13.31592	0.1531488	0.22719969	2.6598934	20	—	—
307891 2004 CQ_{6}	16.1	X	224.38387	295.55764	269.90128	11.86444	0.1307058	0.22892314	2.6465266	20	—	—
307892 2004 CL_{7}	16.7	X	322.15489	216.41309	2.19745	3.67402	0.1926848	0.24529259	2.5274336	20	1 30.7	19.9
307893 2004 CX_{8}	17.2	X	287.46537	7.37251	126.54910	9.65801	0.1154994	0.22934434	2.6432852	20	—	—
307894 2004 CP_{18}	16.7	X	16.27293	86.15255	339.71612	11.93009	0.2503849	0.23611134	2.5925362	20	—	—
307895 2004 CJ_{24}	15.6	X	299.89621	184.88073	281.84783	14.03244	0.0871034	0.22649826	2.6653821	20	12 22.6	18.7
307896 2004 CQ_{31}	17.0	X	170.20566	81.58143	138.89723	4.70880	0.0217933	0.22464374	2.6800311	20	12 4.1	20.8
307897 2004 CT_{35}	16.5	X	249.87048	18.18764	140.93616	9.43203	0.1391974	0.22421170	2.6834728	20	12 9.6	20.0
307898 2004 CE_{37}	15.9	X	140.60608	292.25523	295.52454	10.53838	0.0408427	0.21753527	2.7381018	20	11 1.6	20.0
307899 2004 CZ_{54}	16.7	X	316.05978	104.37041	274.05482	1.44365	0.0531582	0.21274590	2.7790429	20	9 17.6	20.3
307900 2004 CS_{58}	16.8	X	11.16713	21.94149	71.69341	4.81951	0.2083003	0.23895256	2.5719445	20	—	—
307901 2004 CR_{61}	17.0	X	43.03727	118.93037	0.65326	6.97447	0.0469671	0.24636036	2.5201255	20	2 7.6	20.1
307902 2004 CN_{63}	16.7	X	95.50951	134.63510	33.87532	6.89151	0.0735221	0.26110992	2.4243043	20	7 2.6	19.9
307903 2004 CP_{67}	16.5	X	314.77174	81.82256	125.84214	5.53516	0.0576152	0.24418013	2.5351043	20	1 25.9	19.7
307904 2004 CC_{69}	17.0	X	0.50649	107.72054	332.30584	10.85614	0.2418234	0.23591197	2.5939966	20	—	—
307905 2004 CF_{69}	17.0	X	226.29283	95.98915	102.93788	5.38609	0.1801274	0.22701572	2.6613302	20	12 23.3	20.7
307906 2004 CG_{71}	16.2	X	172.24388	230.22518	330.23345	10.91013	0.0845753	0.21900264	2.7258575	20	10 31.9	20.5
307907 2004 CW_{79}	16.5	X	120.54260	133.62014	19.59253	4.60809	0.0958105	0.26212590	2.4180360	20	7 16.6	19.9
307908 2004 CX_{88}	16.7	X	352.36738	11.93948	51.92810	4.99592	0.1904675	0.23184709	2.6242283	20	—	—
307909 2004 CW_{105}	15.9	X	214.72361	246.88008	284.08159	11.58561	0.0566351	0.22036653	2.7145987	20	11 18.0	19.8
307910 2004 CJ_{109}	16.1	X	268.26655	335.18939	179.27177	12.78885	0.1545311	0.22531319	2.6747199	20	12 27.1	19.4
307911 2004 CU_{121}	16.8	X	19.37673	29.46221	342.69909	5.51559	0.0437041	0.22304180	2.6928482	20	12 10.8	20.4
307912 2004 DM_{12}	16.0	X	263.80095	152.49798	347.21075	13.72896	0.1105127	0.22359365	2.6884156	20	12 4.4	19.7
307913 2004 DB_{20}	16.6	X	279.95375	238.83612	252.30907	10.36906	0.1354428	0.22650547	2.6653255	20	12 18.1	19.5
307914 2004 DF_{20}	15.1	X	272.75045	280.52836	310.45048	15.17098	0.1317694	0.17647126	3.1478936	20	1 8.0	19.9
307915 2004 DL_{28}	17.2	X	332.96226	92.03357	354.30896	3.99290	0.1800293	0.22951284	2.6419914	20	—	—
307916 2004 DO_{53}	16.9	X	239.21477	277.20889	217.62831	4.15285	0.1063599	0.21697774	2.7427902	20	10 27.5	20.8
307917 2004 EY_{1}	16.4	X	292.64605	278.59935	178.63143	10.54514	0.1163928	0.22148749	2.7054317	20	11 25.9	19.7
307918 2004 EU_{9}	18.9	X	349.41666	202.40881	161.09427	28.58351	0.5052408	1.19303602	0.8804412	20	—	—
307919 2004 ET_{10}	17.2	X	72.48250	104.76272	98.05977	1.87018	0.1423551	0.25860322	2.4399453	20	7 30.3	20.1
307920 2004 EF_{20}	16.2	X	200.81641	160.71378	184.87044	3.60325	0.0929552	0.24596351	2.5228355	20	3 5.0	19.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
307921 2004 ET_{25}	16.5	X	203.40123	286.31159	250.92404	3.91486	0.0979339	0.21823756	2.7322245	20	11 8.8	20.4
307922 2004 EX_{27}	17.0	X	33.59031	263.19905	356.35283	1.54222	0.0205776	0.20218211	2.8750202	20	7 30.4	20.7
307923 2004 ED_{30}	17.0	X	242.33241	154.70725	165.02598	6.41746	0.1727710	0.24565109	2.5249740	20	3 11.4	21.1
307924 2004 EB_{31}	17.6	X	359.71383	94.55246	1.17649	20.29779	0.0676596	0.35250254	1.9846985	20	—	—
307925 2004 EQ_{35}	16.4	X	266.87469	272.01944	263.11620	10.07299	0.1314377	0.22971454	2.6404446	20	—	—
307926 2004 EG_{37}	15.9	X	255.22753	114.56479	39.17975	14.85151	0.1372213	0.22050153	2.7134905	20	12 5.5	19.6
307927 2004 EO_{37}	16.2	X	19.89250	181.37259	278.47282	7.85211	0.1717602	0.23940873	2.5686764	20	—	—
307928 2004 EC_{38}	16.2	X	280.69906	279.27291	208.08642	14.26005	0.2797914	0.22414343	2.6840177	20	11 23.8	19.0
307929 2004 EN_{42}	15.9	X	213.64380	169.03702	10.40425	7.61220	0.1615468	0.21853388	2.7297541	20	11 14.1	20.1
307930 2004 EC_{43}	16.2	X	290.52695	133.64431	30.54824	3.98077	0.1616337	0.22960459	2.6412875	20	—	—
307931 2004 EQ_{48}	16.7	X	315.97455	354.65009	119.25920	4.48479	0.1448272	0.22815978	2.6524263	20	—	—
307932 2004 EJ_{60}	16.4	X	337.69465	263.65555	241.67494	5.43676	0.3152043	0.23492963	2.6012226	20	—	—
307933 2004 ES_{64}	16.0	X	127.10162	152.90721	70.97280	11.03243	0.2006326	0.21116220	2.7929206	20	10 25.5	20.8
307934 2004 EG_{65}	16.4	X	308.89820	172.82182	67.34503	13.39857	0.2227317	0.24223864	2.5486318	20	2 9.8	20.1
307935 2004 EP_{65}	16.3	X	176.12439	144.90984	70.66405	9.08873	0.1625706	0.21876069	2.7278670	20	11 23.9	20.7
307936 2004 ED_{68}	16.0	X	256.34661	344.11496	167.27559	13.46832	0.0927777	0.22426673	2.6830339	20	12 15.2	19.7
307937 2004 ET_{82}	17.1	X	276.98730	202.91852	304.59685	2.05756	0.2013122	0.22560639	2.6724020	20	12 26.9	20.0
307938 2004 EE_{84}	15.0	X	162.40363	216.86558	182.03928	13.77246	0.1834019	0.24454767	2.5325636	20	4 7.9	19.1
307939 2004 EY_{84}	16.3	X	313.96321	341.06156	127.02281	5.25110	0.1709762	0.22700973	2.6613770	20	—	—
307940 2004 EX_{85}	17.0	X	29.13377	118.14135	32.78871	6.76414	0.2030400	0.24499489	2.5294806	20	3 6.1	19.0
307941 2004 FY_{18}	17.0	X	274.26756	296.75732	230.82415	3.04623	0.1926457	0.22879136	2.6475427	20	—	—
307942 2004 FA_{29}	17.5	X	125.47833	73.77345	25.02120	21.32398	0.1201801	0.37260282	1.9126637	20	5 1.6	19.7
307943 2004 FC_{66}	15.7	X	301.15536	193.68144	55.85323	13.50977	0.2240007	0.23676125	2.5877896	20	2 14.2	19.6
307944 2004 FK_{78}	17.0	X	340.36773	260.65911	184.69547	1.65514	0.0383110	0.22417051	2.6838015	20	—	—
307945 2004 FS_{86}	16.3	X	179.72343	234.20229	123.39263	9.96786	0.0872574	0.24427625	2.5344393	20	2 29.9	20.1
307946 2004 FX_{129}	16.5	X	317.98482	117.08469	147.84415	7.81434	0.1624469	0.24544800	2.5263666	20	4 3.1	19.4
307947 2004 FP_{136}	16.3	X	211.91672	137.65289	60.62295	13.74044	0.2636138	0.21907364	2.7252685	20	11 26.2	20.8
307948 2004 FW_{137}	16.5	X	347.91111	133.66628	186.98887	11.85481	0.0776165	0.20152970	2.8812217	20	8 14.9	20.2
307949 2004 FV_{138}	16.5	X	206.45227	296.51991	240.90925	1.29141	0.0197316	0.21752674	2.7381734	20	11 22.1	20.2
307950 2004 FF_{142}	16.4	X	243.16831	260.38125	15.10627	12.08636	0.1998573	0.23343649	2.6123030	20	1 21.9	21.0
307951 2004 FG_{142}	16.4	X	202.36628	138.82288	23.06646	3.24412	0.1965151	0.21313367	2.7756711	20	10 10.9	20.8
307952 2004 GD_{1}	16.5	X	268.18781	282.92371	219.63341	6.88332	0.2560254	0.22463879	2.6800705	20	11 25.9	19.6
307953 2004 GU_{5}	16.4	X	272.43921	33.93023	175.38369	13.46112	0.1909624	0.22918437	2.6445151	20	—	—
307954 2004 GD_{10}	16.3	X	77.29698	245.40212	19.73015	9.22046	0.1085746	0.20517338	2.8470081	20	10 15.1	20.4
307955 2004 GA_{23}	17.3	X	60.49572	211.64377	66.71482	1.66097	0.1810414	0.26411914	2.4058551	20	11 1.3	20.5
307956 2004 GW_{27}	16.5	X	274.43614	141.15273	140.10841	13.93636	0.1736837	0.23715643	2.5849141	20	2 26.2	20.3
307957 2004 GF_{44}	15.9	X	27.70158	106.94523	190.64369	12.83939	0.1573258	0.20376854	2.8600786	20	9 28.4	19.2
307958 2004 GV_{72}	17.0	X	354.71140	157.86544	45.75424	11.12268	0.1246954	0.24329876	2.5412230	20	3 18.7	19.8
307959 2004 GM_{75}	17.0	X	108.60887	41.52112	195.80859	5.59041	0.1030366	0.26698248	2.3886226	20	10 24.4	20.4
307960 2004 GS_{75}	14.8	X	288.83882	301.49062	326.25540	16.17691	0.2699712	0.17848947	3.1241196	20	2 17.7	19.6
307961 2004 HA_{16}	15.9	X	301.73291	84.66181	102.42466	13.58649	0.2330601	0.23150632	2.6268029	20	—	—
307962 2004 HH_{29}	16.9	X	172.29578	339.24156	219.07657	1.79412	0.1175388	0.21151662	2.7897998	20	10 31.3	21.1
307963 2004 HF_{51}	15.7	X	311.23481	50.79981	86.39483	14.10939	0.2008846	0.22977537	2.6399785	20	—	—
307964 2004 HM_{60}	16.2	X	257.00097	345.43052	220.72388	12.18473	0.1938048	0.22425222	2.6831495	20	—	—
307965 2004 HL_{65}	16.3	X	240.76067	299.35484	232.16937	11.55407	0.1473234	0.22021379	2.7158537	20	12 9.7	19.9
307966 2004 JG_{7}	16.5	X	192.84280	251.74695	37.31316	8.79294	0.2349650	0.22280174	2.6947822	20	—	—
307967 2004 JG_{13}	17.2	X	320.29155	177.91486	98.68382	25.44017	0.0553258	0.36737177	1.9307773	20	5 15.0	19.5
307968 2004 JK_{16}	16.5	X	3.88183	120.27194	90.20142	5.89623	0.1240015	0.24395662	2.5366525	20	4 12.1	19.1
307969 2004 JB_{19}	16.1	X	264.92650	135.13591	39.65648	5.58227	0.0964273	0.22133138	2.7067038	20	—	—
307970 2004 JX_{44}	16.1	X	260.78903	130.03778	77.66671	24.86447	0.2180821	0.28667061	2.2779662	20	—	—
307971 2004 LG_{6}	15.3	X	225.43287	94.15880	100.27994	14.51508	0.4709897	0.21893757	2.7263976	20	11 18.1	20.2
307972 2004 LH_{16}	16.3	X	103.90243	148.56447	134.97768	14.73839	0.4112942	0.20213666	2.8754512	20	12 20.0	22.0
307973 2004 NT_{23}	16.3	X	247.19169	48.64801	286.58256	11.70152	0.2779228	0.23158903	2.6261774	20	3 21.4	21.1
307974 2004 NJ_{26}	18.3	X	341.69283	38.96098	259.10389	2.81016	0.2197222	0.30714867	2.1755561	20	7 10.6	18.9
307975 2004 PS_{29}	17.7	X	217.42802	334.33628	34.50822	3.83992	0.2003307	0.29200114	2.2501580	20	4 15.4	21.2
307976 2004 PO_{43}	17.5	X	276.85636	56.31785	286.31369	3.96380	0.0973168	0.30006441	2.2096648	20	5 28.3	20.1
307977 2004 PL_{50}	17.2	X	336.10972	308.00864	45.25186	2.83037	0.0322943	0.31352841	2.1459427	20	10 3.5	19.3
307978 2004 PA_{53}	16.9	X	148.28521	330.39751	0.10927	6.70202	0.1281200	0.27601045	2.3362485	20	—	—
307979 2004 PR_{53}	17.3	X	40.57763	228.12649	45.04950	3.40748	0.1562295	0.31185359	2.1536191	20	10 5.3	19.6
307980 2004 PS_{64}	17.3	X	3.72575	125.07380	165.84922	5.48935	0.2120493	0.24487137	2.5303312	20	8 19.0	19.2
307981 2004 PM_{80}	16.2	X	315.16298	170.72653	172.00012	15.06350	0.1243890	0.24279187	2.5447588	20	7 23.3	19.2
307982 2004 PG_{115}	4.8	X	6.90921	75.88557	230.36536	16.28351	0.6048858	0.00111450	92.1329468	20	8 28.1	20.8
307983 2004 QN_{6}	17.9	X	188.38478	199.42868	142.92151	1.18312	0.2201276	0.28352708	2.2947727	20	2 18.2	21.7
307984 2004 QV_{13}	16.0	X	208.94765	86.51659	292.91139	23.45360	0.3067290	0.28544459	2.2844843	20	4 6.6	20.8
307985 2004 QX_{21}	17.8	X	244.32614	39.09788	312.51479	5.10633	0.1826479	0.29455522	2.2371318	20	4 16.6	21.2
307986 2004 QT_{26}	16.1	X	342.29583	6.86544	331.07152	13.31045	0.3539718	0.24354601	2.5395029	20	9 17.2	17.1
307987 2004 QP_{27}	17.7	X	229.46442	249.33339	105.01993	7.17793	0.2372571	0.29100619	2.2552840	20	4 9.1	21.5
307988 2004 RL_{1}	16.5	X	219.64422	191.40780	159.84471	24.71409	0.1513620	0.28907237	2.2653310	20	3 30.9	20.1
307989 2004 RE_{3}	14.8	X	329.07992	23.88408	264.65017	22.43446	0.1436209	0.17305969	3.1891291	20	5 28.4	18.8
307990 2004 RR_{12}	15.9	X	4.26112	288.31503	6.73761	11.48879	0.1873020	0.24682166	2.5169845	20	8 30.1	18.2
307991 2004 RY_{25}	15.7	X	200.29319	329.60497	8.29972	9.42949	0.2309550	0.22176950	2.7031377	20	2 29.6	20.5
307992 2004 RL_{29}	16.1	X	339.53270	321.18904	357.49749	8.27662	0.0675156	0.24592950	2.5230680	20	8 9.6	19.0
307993 2004 RO_{49}	17.7	X	285.47222	164.48000	149.80621	3.78485	0.1844626	0.29628468	2.2284177	20	4 16.8	20.4
307994 2004 RJ_{53}	17.3	X	235.48586	344.97892	13.34709	7.44595	0.1374253	0.29282130	2.2459544	20	4 21.4	20.4
307995 2004 RF_{57}	17.2	X	24.51527	81.58777	305.85715	4.91270	0.1288416	0.26050250	2.4280714	20	—	—
307996 2004 RH_{66}	17.8	X	274.05262	349.58250	346.79840	2.88099	0.1880879	0.29634653	2.2281076	20	4 30.0	20.8
307997 2004 RU_{74}	17.1	X	238.85355	335.77541	32.57367	5.30421	0.1964181	0.29371347	2.2414040	20	5 4.3	20.3
307998 2004 RF_{98}	16.7	X	182.77400	243.34792	250.89888	5.48108	0.1004613	0.30721275	2.1752536	20	8 30.9	19.7
307999 2004 RZ_{98}	17.5	X	202.98011	144.15639	193.50338	3.86667	0.1723293	0.28495355	2.2871080	20	2 22.6	21.0
308000 2004 RM_{101}	17.7	X	219.68318	132.85048	253.61829	2.17100	0.2270312	0.29297288	2.2451797	20	5 8.3	21.4