Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
400001 2006 FW_{17}	17.9	X	226.16420	149.47953	64.36758	2.96298	0.1322887	0.25393047	2.4697871	20	—	—
400002 2006 GN_{20}	17.6	X	320.03446	352.17623	123.27426	3.32313	0.1548671	0.25692098	2.4505844	20	—	—
400003 2006 HG_{32}	17.1	X	206.34967	226.59822	83.13585	7.39844	0.1099209	0.26612169	2.3937706	20	1 25.6	20.6
400004 2006 HD_{34}	17.9	X	204.06115	76.96687	203.98304	2.80091	0.1700531	0.25890179	2.4380691	20	—	—
400005 2006 HD_{72}	17.8	X	274.03402	98.25614	115.73737	5.17635	0.1457144	0.26144284	2.4222458	20	—	—
400006 2006 HV_{90}	17.8	X	251.35332	117.52171	65.87018	2.17210	0.1225453	0.25495516	2.4631650	20	—	—
400007 2006 HP_{91}	17.0	X	164.93903	296.16129	92.89481	7.47762	0.1174816	0.27254177	2.3560292	20	3 26.3	20.5
400008 2006 HL_{103}	17.3	X	192.22543	107.78727	124.20960	13.32793	0.0663287	0.24749800	2.5123969	20	—	—
400009 2006 JC_{28}	17.4	X	203.10217	241.99108	71.44100	4.56264	0.2063975	0.26310360	2.4120419	20	1 28.8	21.5
400010 2006 JC_{29}	17.5	X	204.97290	163.78325	141.97162	3.25320	0.1945219	0.26195821	2.4190678	20	1 19.8	21.5
400011 2006 JF_{81}	17.5	X	189.59498	161.08391	151.47572	2.78283	0.1996936	0.25771289	2.4455617	20	1 15.8	21.5
400012 2006 KH_{11}	17.7	X	154.01031	112.63316	63.57930	26.70622	0.1084630	0.37046849	1.9200028	20	10 22.3	20.6
400013 2006 KE_{24}	15.4	X	264.01907	184.48641	72.53097	3.91844	0.1802627	0.12432595	3.9758335	20	1 29.9	21.5
400014 2006 KD_{108}	17.1	X	181.38688	326.58013	39.76591	8.16626	0.1395772	0.27219662	2.3580204	20	3 14.6	20.7
400015 2006 KH_{126}	17.9	X	153.08335	96.46917	258.21408	0.71146	0.1839083	0.25749463	2.4469435	20	2 2.3	21.4
400016 2006 MG_{13}	16.4	X	125.06667	85.02438	229.77768	14.19629	0.1527372	0.23928676	2.5695492	20	—	—
400017 2006 OX_{10}	17.5	X	128.04351	339.20850	4.65901	4.00514	0.2073584	0.24181738	2.5515909	20	—	—
400018 2006 OG_{14}	17.2	X	129.57772	205.98272	113.13372	7.17414	0.2285020	0.23885705	2.5726301	20	—	—
400019 2006 OT_{14}	17.2	X	132.33979	298.28044	358.87263	3.85637	0.2561527	0.23792748	2.5793265	20	—	—
400020 2006 OA_{22}	16.5	X	72.94706	188.52758	181.75699	14.01216	0.2716366	0.22844088	2.6502499	20	—	—
400021 2006 PZ_{10}	15.7	X	249.42253	160.93163	200.23050	2.36600	0.2809057	0.12470859	3.9676966	20	5 2.7	21.9
400022 2006 PE_{32}	16.3	X	118.79444	203.92006	142.43463	27.51240	0.1229645	0.24121229	2.5558563	20	—	—
400023 2006 PE_{33}	16.7	X	149.63572	224.03299	83.73376	13.06686	0.2512376	0.24173898	2.5521425	20	—	—
400024 2006 PL_{37}	16.7	X	18.98633	215.85143	162.43355	14.26683	0.2626174	0.22636376	2.6664377	20	—	—
400025 2006 QK_{2}	15.2	X	270.05571	43.85029	292.18847	1.68627	0.2275850	0.12549395	3.9511258	20	4 26.6	21.1
400026 2006 QR_{42}	17.3	X	149.53300	260.54843	76.26033	2.85481	0.2221662	0.24427898	2.5344204	20	1 13.9	21.1
400027 2006 QA_{48}	17.3	X	176.30971	314.60644	336.70357	9.25968	0.2333797	0.24408561	2.5357588	20	—	—
400028 2006 QF_{83}	18.1	X	127.32808	173.48738	170.11778	3.07435	0.1718985	0.24129574	2.5552670	20	—	—
400029 2006 QF_{92}	17.0	X	46.62289	51.99745	313.80667	11.99125	0.2854386	0.22824795	2.6517432	20	—	—
400030 2006 QJ_{96}	17.0	X	131.71475	237.79473	125.33408	18.39931	0.2514433	0.24353933	2.5395493	20	2 1.0	20.7
400031 2006 QX_{105}	17.6	X	100.48442	192.41688	187.32621	6.03842	0.2345222	0.24052252	2.5607404	20	1 14.1	20.8
400032 2006 QU_{107}	17.1	X	73.90426	52.08963	331.02326	12.32454	0.1922968	0.23530000	2.5984923	20	—	—
400033 2006 QT_{108}	16.9	X	130.51083	6.79513	289.67597	7.60332	0.3007750	0.23513609	2.5996997	20	—	—
400034 2006 QZ_{116}	17.2	X	143.31896	14.11455	292.87468	3.93169	0.2181028	0.23898128	2.5717384	20	—	—
400035 2006 QF_{119}	16.4	X	30.25200	191.07360	141.77382	10.33341	0.2148082	0.21926867	2.7236522	20	12 2.1	20.1
400036 2006 QY_{121}	16.8	X	66.70433	152.60170	203.46334	6.84453	0.1822719	0.22993010	2.6387941	20	—	—
400037 2006 QA_{135}	17.5	X	108.88198	86.09938	275.73735	3.44847	0.2417734	0.23851503	2.5750888	20	1 4.6	20.7
400038 2006 QM_{155}	16.4	X	35.21745	177.13674	190.03329	19.53125	0.2083654	0.22223052	2.6993979	20	—	—
400039 2006 QS_{164}	17.6	X	119.04678	158.13537	200.25137	13.69217	0.2586795	0.23993426	2.5649242	20	1 11.8	21.5
400040 2006 QK_{167}	17.7	X	132.11528	203.23825	135.97737	6.20231	0.2763249	0.24058286	2.5603122	20	1 6.1	21.5
400041 2006 QW_{186}	17.2	X	102.38670	264.29605	91.84352	1.75777	0.0636535	0.23590546	2.5940443	20	—	—
400042 2006 RX_{20}	17.3	X	151.91834	113.44504	187.18258	6.03561	0.2639865	0.23886469	2.5725752	20	—	—
400043 2006 RK_{57}	17.1	X	122.67886	33.64673	316.17653	10.31783	0.0574557	0.24295203	2.5436403	20	—	—
400044 2006 RH_{82}	17.2	X	60.44073	48.10369	353.78680	3.20179	0.1371773	0.23350671	2.6117793	20	—	—
400045 2006 RA_{83}	17.2	X	62.99606	38.69572	352.02156	3.28344	0.1038955	0.23240504	2.6200265	20	—	—
400046 2006 RC_{100}	17.0	X	142.48804	13.36581	321.63552	14.51668	0.1432746	0.24159630	2.5531473	20	—	—
400047 2006 RT_{100}	17.0	X	126.27557	192.53256	141.70114	14.57516	0.1807997	0.23853157	2.5749698	20	—	—
400048 2006 RX_{107}	17.2	X	178.94381	52.21946	190.15422	11.88423	0.2162020	0.23064203	2.6333611	20	12 25.4	21.8
400049 2006 RG_{120}	16.9	X	108.90997	126.25888	231.27365	14.03598	0.1581822	0.23923844	2.5698952	20	—	—
400050 2006 SR_{26}	16.8	X	137.15531	186.69022	165.36361	13.38104	0.1802987	0.24276768	2.5449278	20	1 14.5	20.7
400051 2006 ST_{38}	18.0	X	136.41446	118.91591	210.71137	3.92817	0.2978741	0.23926291	2.5697200	20	—	—
400052 2006 SQ_{42}	16.5	X	31.23292	331.93344	31.48993	5.48542	0.1540380	0.22015867	2.7163070	20	12 31.4	20.1
400053 2006 SV_{53}	16.7	X	86.21379	127.88680	262.36856	14.08462	0.1747227	0.23819490	2.5773956	20	—	—
400054 2006 SK_{55}	17.3	X	109.13946	272.77245	79.67912	6.28803	0.2186429	0.23525397	2.5988312	20	—	—
400055 2006 SC_{59}	17.3	X	102.85971	51.21408	314.09023	10.56733	0.2117165	0.23722562	2.5844114	20	—	—
400056 2006 SV_{61}	17.7	X	137.71263	299.73290	27.69260	5.23469	0.2424954	0.23966596	2.5668381	20	—	—
400057 2006 SM_{71}	17.2	X	48.63935	161.40130	183.01913	4.28371	0.1259826	0.22023681	2.7156644	20	12 24.4	21.1
400058 2006 SK_{76}	17.4	X	133.21701	203.89044	121.62347	2.14422	0.2375416	0.23611924	2.5924783	20	—	—
400059 2006 SA_{95}	16.8	X	16.10838	157.03203	196.01481	6.09672	0.0547646	0.21410800	2.7672440	20	11 12.8	20.4
400060 2006 SO_{95}	17.6	X	96.68934	195.47542	188.41991	3.32900	0.2824193	0.23628177	2.5912893	20	1 22.9	20.7
400061 2006 SK_{97}	17.0	X	54.24602	137.71439	194.09019	8.74907	0.1196643	0.21915513	2.7245929	20	12 14.6	21.0
400062 2006 SY_{97}	17.3	X	71.93130	344.80892	21.02581	11.42703	0.0920681	0.22802351	2.6534830	20	—	—
400063 2006 SO_{98}	17.2	X	323.24771	192.80456	199.73321	4.02157	0.0765018	0.21106292	2.7937964	20	10 17.2	20.7
400064 2006 SD_{105}	16.6	X	104.92868	65.60474	275.94617	11.35551	0.2883399	0.23319831	2.6140815	20	—	—
400065 2006 SR_{116}	17.5	X	91.47376	304.89424	27.66996	7.25308	0.0928523	0.22599106	2.6693685	20	—	—
400066 2006 SF_{127}	16.7	X	12.59076	307.50205	75.83674	9.63370	0.2576291	0.22020022	2.7159653	20	—	—
400067 2006 SU_{127}	16.4	X	69.25383	142.86387	267.41524	13.77980	0.0837653	0.23789875	2.5795341	20	—	—
400068 2006 SV_{130}	17.4	X	142.78563	349.80861	348.84984	6.27748	0.2931918	0.24026155	2.5625944	20	1 18.2	21.6
400069 2006 SC_{152}	17.1	X	151.43110	19.75780	251.29102	1.66206	0.1034101	0.22795082	2.6540470	20	—	—
400070 2006 SK_{159}	17.6	X	119.96156	302.24154	31.46406	3.85533	0.1532309	0.23339916	2.6125815	20	—	—
400071 2006 SW_{167}	17.0	X	2.83905	84.76930	340.44222	4.88461	0.0549649	0.22793305	2.6541849	20	—	—
400072 2006 SQ_{197}	17.3	X	120.32855	272.35654	71.28737	3.58329	0.1673397	0.23779919	2.5802541	20	—	—
400073 2006 SC_{205}	17.7	X	8.53928	226.72994	190.17327	2.04328	0.0078611	0.22743111	2.6580887	20	—	—
400074 2006 SF_{209}	16.7	X	50.25925	352.77553	43.42202	14.80629	0.2938546	0.22778692	2.6553200	20	—	—
400075 2006 SD_{228}	17.2	X	83.60070	76.14329	221.38869	5.61340	0.1535902	0.22219037	2.6997231	20	12 8.5	21.3
400076 2006 SQ_{232}	17.3	X	52.78183	354.44697	316.47966	3.57772	0.0556016	0.21656827	2.7462464	20	11 5.5	21.1
400077 2006 SY_{238}	17.8	X	60.95760	210.74152	172.40008	6.05675	0.0695744	0.23256430	2.6188303	20	—	—
400078 2006 SU_{266}	16.2	X	264.18002	227.04978	222.99057	13.06361	0.0350492	0.20943055	2.8082948	20	10 9.3	20.0
400079 2006 SV_{287}	15.9	X	319.99710	174.61914	284.09002	21.12964	0.0386875	0.22555618	2.6727986	20	—	—
400080 2006 SC_{292}	16.0	X	15.46516	323.08736	55.89693	17.75211	0.2858293	0.22065882	2.7122009	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
400081 2006 SS_{301}	17.0	X	92.54574	224.24949	165.24868	13.56312	0.3171795	0.23547163	2.5972295	20	1 29.2	20.4
400082 2006 SC_{311}	17.4	X	116.31778	64.08216	266.99922	2.72582	0.1490433	0.23315765	2.6143854	20	—	—
400083 2006 ST_{333}	17.0	X	74.98305	277.10254	79.39919	2.71376	0.1264166	0.22871807	2.6481082	20	—	—
400084 2006 SJ_{343}	17.0	X	48.96491	123.58980	223.22609	8.31100	0.1213141	0.22061014	2.7125999	20	12 26.6	20.9
400085 2006 SZ_{345}	17.0	X	146.23403	42.47493	280.52692	3.16926	0.2310990	0.23842441	2.5757413	20	—	—
400086 2006 SA_{352}	17.0	X	50.27341	63.93710	320.13590	4.37817	0.1035943	0.22827903	2.6515025	20	—	—
400087 2006 SG_{354}	17.3	X	153.51303	257.03366	57.05836	4.97990	0.3203656	0.23963969	2.5670257	20	—	—
400088 2006 SB_{368}	18.3	X	325.53770	138.52409	205.32188	21.71725	0.1236780	0.34941755	1.9963633	20	8 29.0	20.1
400089 2006 SH_{385}	16.0	X	82.17005	79.91300	89.18127	13.36197	0.1025563	0.18684942	3.0302250	20	6 17.4	20.2
400090 2006 SV_{389}	16.7	X	112.42166	185.30935	108.88106	13.21603	0.1322838	0.22152205	2.7051504	20	12 30.0	20.9
400091 2006 SQ_{390}	17.1	X	76.65851	229.10811	115.97357	12.14509	0.1939934	0.22466500	2.6798620	20	—	—
400092 2006 SQ_{400}	17.1	X	62.26989	262.00989	22.57047	4.60523	0.0320412	0.21236049	2.7824043	20	10 12.3	20.8
400093 2006 SF_{406}	17.2	X	41.88955	183.13694	145.43292	2.52768	0.0830876	0.21594282	2.7515466	20	11 20.1	20.8
400094 2006 SN_{407}	17.6	X	149.14172	103.20312	186.86747	4.27277	0.2763537	0.23388175	2.6089865	20	—	—
400095 2006 SJ_{413}	17.0	X	82.42264	308.61198	73.09720	14.18391	0.2674735	0.23339559	2.6126082	20	—	—
400096 2006 TX_{13}	16.6	X	97.61669	322.93275	64.67866	13.72194	0.1726688	0.23800354	2.5787769	20	1 13.4	19.9
400097 2006 TF_{14}	17.3	X	106.33215	30.39623	324.78838	2.09994	0.2227427	0.23463376	2.6034089	20	—	—
400098 2006 TK_{14}	17.5	X	123.44128	257.34621	79.36603	5.44051	0.2627808	0.23555735	2.5965993	20	—	—
400099 2006 TS_{24}	17.5	X	110.14318	160.28092	210.01353	6.36109	0.1887928	0.23660813	2.5889060	20	1 8.4	21.0
400100 2006 TC_{28}	17.0	X	98.14903	276.73843	58.77619	2.69399	0.2023330	0.22866446	2.6485221	20	—	—
400101 2006 TO_{43}	17.4	X	17.37221	10.42480	40.98995	6.47166	0.0445642	0.22221789	2.6995002	20	—	—
400102 2006 TS_{53}	17.3	X	85.28737	165.28547	203.86628	3.76812	0.2208876	0.22997649	2.6384392	20	—	—
400103 2006 TQ_{58}	16.8	X	101.91384	91.72764	252.37614	10.95067	0.3990816	0.23367354	2.6105360	20	—	—
400104 2006 TF_{65}	16.7	X	71.72747	68.89615	276.11913	6.47538	0.2230198	0.22822779	2.6518993	20	—	—
400105 2006 TF_{75}	17.1	X	77.51270	323.80667	37.77673	5.46037	0.1705538	0.22848904	2.6498775	20	—	—
400106 2006 TJ_{84}	16.8	X	110.62319	98.09008	242.16214	7.96120	0.1393713	0.23109436	2.6299237	20	—	—
400107 2006 TO_{85}	17.2	X	125.61445	108.33801	260.01479	3.40736	0.3234607	0.23986099	2.5654465	20	2 8.2	21.3
400108 2006 TN_{122}	16.8	X	85.92608	299.57461	63.61438	12.34905	0.2015228	0.23079229	2.6322180	20	—	—
400109 2006 TS_{123}	17.6	X	77.54282	238.19970	136.16302	3.04009	0.1246732	0.23031991	2.6358158	20	—	—
400110 2006 TC_{125}	16.9	X	140.38137	35.98520	303.36463	3.10735	0.1792287	0.23401019	2.6080317	20	1 4.9	20.6
400111 2006 TB_{129}	17.4	X	95.21687	223.75993	169.71652	4.31575	0.1608459	0.23559212	2.5963439	20	1 14.5	20.5
400112 2006 UF_{8}	16.7	X	57.75135	295.78079	54.83139	6.34762	0.2104870	0.22337506	2.6901692	20	—	—
400113 2006 UF_{16}	16.7	X	40.84569	124.44316	214.22348	13.56703	0.1325118	0.21412163	2.7671265	20	12 7.6	20.6
400114 2006 UQ_{20}	17.6	X	121.71060	14.01304	314.64160	1.43355	0.1383568	0.23239863	2.6200747	20	—	—
400115 2006 UV_{21}	17.5	X	150.77247	14.47745	300.29168	1.06314	0.1835363	0.23647036	2.5899114	20	—	—
400116 2006 UH_{24}	17.4	X	126.30474	103.89604	217.42619	8.35659	0.2185109	0.23306822	2.6150541	20	—	—
400117 2006 UN_{30}	17.1	X	84.24527	91.91794	213.39387	7.12296	0.1608372	0.22087515	2.7104296	20	12 18.4	21.3
400118 2006 UU_{30}	17.3	X	126.99637	84.23400	214.65538	13.71220	0.1729761	0.22766077	2.6563008	20	—	—
400119 2006 UM_{32}	17.3	X	135.22737	125.85571	211.36758	3.93674	0.2451776	0.23703408	2.5858035	20	1 3.5	21.1
400120 2006 UZ_{51}	17.4	X	82.04421	25.84335	282.02440	1.55726	0.1635240	0.22008261	2.7169328	20	12 19.5	21.5
400121 2006 UE_{58}	17.3	X	64.46769	183.93479	207.72195	11.25505	0.1825204	0.22809824	2.6529033	20	—	—
400122 2006 UG_{84}	17.2	X	102.63471	305.02627	45.99491	8.78335	0.1404278	0.22917182	2.6446117	20	—	—
400123 2006 UL_{88}	17.2	X	42.00365	159.50935	240.97194	6.93216	0.1637281	0.22551050	2.6731595	20	—	—
400124 2006 UM_{88}	17.3	X	102.22809	35.79444	306.46353	2.09662	0.1869175	0.22893652	2.6464234	20	—	—
400125 2006 UY_{100}	16.5	X	358.18884	331.90304	70.68445	7.16301	0.0189106	0.21788845	2.7351422	20	12 17.5	20.0
400126 2006 UP_{105}	16.9	X	1.33572	3.74179	64.60908	9.20949	0.1057586	0.22153344	2.7050576	20	—	—
400127 2006 UO_{106}	17.3	X	123.81758	198.75074	116.51003	3.50147	0.2199279	0.22934778	2.6432588	20	—	—
400128 2006 UG_{126}	17.1	X	270.99300	180.20008	240.45870	5.07154	0.0697390	0.20387931	2.8590425	20	9 3.9	21.0
400129 2006 UK_{128}	16.6	X	56.04638	113.41462	220.95678	7.77205	0.1526863	0.21910251	2.7250291	20	12 23.3	20.6
400130 2006 US_{128}	16.7	X	61.49359	185.65214	218.86739	12.65222	0.1510655	0.23105181	2.6302466	20	—	—
400131 2006 UY_{128}	17.1	X	33.03139	111.96668	222.79105	6.23327	0.0520748	0.21264259	2.7799429	20	11 10.6	20.7
400132 2006 UH_{152}	16.8	X	104.39298	117.18373	210.51303	8.82695	0.1468648	0.22548308	2.6733762	20	—	—
400133 2006 UU_{170}	17.0	X	109.19478	74.35056	192.53294	8.65424	0.1883099	0.21746640	2.7386799	20	11 27.7	21.6
400134 2006 UM_{177}	16.7	X	341.86211	311.79252	77.19217	7.63962	0.1476445	0.21380027	2.7698987	20	11 16.6	19.7
400135 2006 UB_{178}	17.2	X	117.00886	176.93634	164.05166	5.94179	0.2405627	0.23433872	2.6055936	20	—	—
400136 2006 UE_{188}	16.8	X	114.67662	98.09105	251.30308	11.98664	0.2269153	0.23589091	2.5941509	20	—	—
400137 2006 UN_{189}	16.4	X	79.72530	10.41729	344.20110	12.24870	0.1903211	0.22832088	2.6511785	20	—	—
400138 2006 UX_{189}	16.9	X	70.81487	60.38864	304.36338	6.94491	0.1784483	0.22824885	2.6517362	20	—	—
400139 2006 UM_{192}	16.9	X	64.06096	148.47392	251.28617	11.31432	0.1661159	0.23081223	2.6320664	20	—	—
400140 2006 UU_{201}	15.7	X	165.26800	237.95012	294.44111	11.74235	0.2394199	0.18694296	3.0292141	20	9 13.2	21.2
400141 2006 UA_{215}	17.6	X	72.18582	112.26505	233.88945	19.34959	0.0933282	0.36812638	1.9281379	20	—	—
400142 2006 UT_{224}	16.8	X	88.08848	86.61179	227.89811	11.61533	0.1988626	0.22436197	2.6822745	20	—	—
400143 2006 UC_{227}	16.8	X	125.09957	102.62414	219.67135	12.88608	0.1861911	0.23248695	2.6194111	20	—	—
400144 2006 UE_{232}	17.6	X	122.14067	110.93118	235.29607	11.85293	0.2913762	0.23429089	2.6059482	20	1 5.7	21.6
400145 2006 UJ_{244}	17.4	X	127.75476	115.26025	210.82426	10.75425	0.1978170	0.23389282	2.6089041	20	—	—
400146 2006 UZ_{251}	17.1	X	233.35302	95.12408	359.28161	1.27972	0.0353406	0.20327848	2.8646734	20	9 6.5	21.1
400147 2006 UV_{280}	17.4	X	123.68848	98.10157	215.57171	6.95914	0.0313515	0.22440497	2.6819318	20	—	—
400148 2006 UT_{288}	16.3	X	106.17488	285.37123	77.78885	13.11398	0.2788388	0.23418816	2.6067103	20	1 9.5	19.8
400149 2006 UW_{329}	17.5	X	56.47416	139.76152	232.76242	5.59499	0.0129902	0.22179448	2.7029348	20	—	—
400150 2006 UM_{335}	16.1	X	102.12250	241.48052	82.51139	14.03943	0.2762807	0.22772620	2.6557919	20	—	—
400151 2006 UB_{346}	17.1	X	104.09615	299.36161	49.22925	10.85232	0.2630659	0.23019527	2.6367672	20	—	—
400152 2006 VO_{12}	16.5	X	131.46053	83.83121	274.53900	27.03487	0.3872343	0.24162823	2.5529223	20	1 29.5	21.2
400153 2006 VP_{12}	16.4	X	104.37804	84.45613	276.78935	27.69189	0.3403246	0.23516051	2.5995197	20	1 10.1	20.0
400154 2006 VP_{23}	17.3	X	73.16359	132.45091	213.81476	2.35830	0.1289234	0.22159145	2.7045855	20	—	—
400155 2006 VZ_{30}	17.2	X	135.88537	24.11451	294.51797	2.33359	0.2731206	0.23140938	2.6275364	20	—	—
400156 2006 VH_{47}	17.6	X	344.24461	101.10393	317.12800	1.69795	0.0714555	0.21639969	2.7476725	20	12 23.0	21.0
400157 2006 VV_{66}	17.4	X	66.15962	323.51773	74.12691	3.41426	0.2232593	0.23047296	2.6346488	20	—	—
400158 2006 VR_{69}	17.4	X	104.76824	118.19413	238.62713	12.66142	0.3000926	0.23144490	2.6272676	20	1 1.4	21.0
400159 2006 VX_{74}	16.9	X	100.30016	191.12043	184.86564	8.24240	0.2974262	0.23333518	2.6130591	20	1 19.4	20.4
400160 2006 VH_{81}	15.3	X	138.27058	208.35250	239.97066	20.70565	0.1225113	0.17648825	3.1476917	20	5 12.6	20.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
400161 2006 VY_{84}	17.0	X	91.92170	62.23219	337.09103	3.50816	0.2729342	0.23482895	2.6019661	20	2 5.6	20.1
400162 2006 VM_{85}	17.1	X	106.90237	251.30027	121.37285	3.34764	0.2000294	0.23306240	2.6150977	20	1 10.6	20.5
400163 2006 VB_{111}	16.8	X	118.80379	19.89661	309.27393	3.74018	0.2780922	0.22964295	2.6409933	20	—	—
400164 2006 VG_{111}	17.4	X	84.74660	340.21788	24.94346	5.87866	0.2253424	0.22777029	2.6554492	20	—	—
400165 2006 VL_{112}	16.7	X	5.66135	184.13924	262.70676	12.92000	0.2172086	0.22358885	2.6884540	20	—	—
400166 2006 VX_{133}	16.8	X	77.72379	53.08676	264.30885	7.24332	0.2405455	0.21780124	2.7358723	20	—	—
400167 2006 VS_{134}	16.6	X	106.00273	314.30331	65.11896	7.08406	0.2670905	0.23513823	2.5996839	20	1 29.6	20.1
400168 2006 VO_{143}	16.8	X	2.36579	5.73445	17.33693	2.96735	0.0855903	0.22101068	2.7093215	20	12 6.3	20.2
400169 2006 VS_{154}	16.9	X	68.19904	195.91786	201.78106	14.27590	0.2015513	0.23091204	2.6313078	20	—	—
400170 2006 WZ_{16}	17.0	X	74.18292	68.22306	309.94675	4.84670	0.2386558	0.22788673	2.6545446	20	—	—
400171 2006 WY_{18}	16.2	X	16.32076	280.02161	98.26999	14.85714	0.2121872	0.21867593	2.7285718	20	—	—
400172 2006 WZ_{18}	17.2	X	112.09472	70.47161	317.57420	3.13469	0.1898390	0.23605566	2.5929438	20	2 3.8	20.6
400173 2006 WJ_{22}	16.9	X	320.28818	283.14417	167.08162	4.12253	0.0641516	0.21495061	2.7600075	20	12 28.1	20.3
400174 2006 WW_{25}	16.6	X	103.61338	116.01903	226.31893	10.32159	0.2047711	0.22702669	2.6612444	20	—	—
400175 2006 WC_{45}	16.9	X	7.57574	98.25688	197.87975	7.41870	0.0351809	0.19927585	2.9029058	20	8 10.1	20.8
400176 2006 WH_{81}	17.2	X	146.61432	37.47843	280.03913	3.42835	0.2642693	0.23678758	2.5875978	20	—	—
400177 2006 WV_{94}	17.6	X	105.38884	187.03221	188.30833	2.29008	0.2245099	0.23441375	2.6050376	20	1 15.1	20.9
400178 2006 WP_{102}	17.0	X	331.05525	304.48466	70.77639	2.98018	0.0943081	0.20395968	2.8582914	20	10 6.0	20.4
400179 2006 WO_{115}	17.2	X	97.84078	130.37772	217.69035	5.48266	0.2214962	0.22831307	2.6512389	20	—	—
400180 2006 WT_{118}	17.0	X	107.13754	198.78664	199.66724	4.02474	0.2401926	0.23583843	2.5945358	20	2 16.7	20.6
400181 2006 WH_{119}	17.2	X	122.23023	236.84679	50.40148	14.12049	0.2598506	0.22447664	2.6813610	20	—	—
400182 2006 WO_{120}	16.1	X	90.62880	123.22039	241.89233	12.61030	0.2087467	0.22844445	2.6502224	20	—	—
400183 2006 WB_{122}	17.3	X	117.20588	224.42692	123.21558	7.02024	0.2593547	0.23211527	2.6222066	20	—	—
400184 2006 WZ_{133}	16.9	X	127.96878	0.65871	284.35050	4.88147	0.0922029	0.22190441	2.7020420	20	—	—
400185 2006 WC_{139}	17.1	X	102.87468	99.64121	241.20214	6.34279	0.2640433	0.22785401	2.6547987	20	—	—
400186 2006 WU_{146}	16.9	X	10.82265	102.60442	253.55770	8.55439	0.1743348	0.20948886	2.8077736	20	11 22.7	20.2
400187 2006 WK_{187}	16.8	X	75.83661	143.54742	194.97624	8.37948	0.2358740	0.22245318	2.6975964	20	—	—
400188 2006 WG_{200}	17.3	X	107.98461	102.31508	248.26092	2.87559	0.2026879	0.22886623	2.6469653	20	—	—
400189 2006 WJ_{205}	16.5	X	232.83637	67.59161	64.53989	7.12316	0.0451194	0.20497298	2.8488635	20	10 24.9	20.5
400190 2006 XL_{19}	15.5	X	184.18717	170.77478	275.43448	22.48106	0.1169319	0.18121489	3.0927166	20	6 24.7	20.3
400191 2006 XL_{20}	16.2	X	271.21911	190.22720	281.75944	9.38009	0.0748315	0.20353873	2.8622310	20	11 9.1	20.1
400192 2006 XS_{46}	16.6	X	67.10824	99.14169	282.04184	9.53012	0.2720783	0.22639665	2.6661795	20	—	—
400193 Castión	16.7	X	75.53275	165.27922	228.53232	12.50676	0.2912857	0.22971643	2.6404301	20	1 3.8	19.5
400194 2006 XQ_{66}	16.3	X	27.00019	282.84688	111.38036	11.97013	0.1872233	0.21914582	2.7246700	20	—	—
400195 2006 YL_{8}	16.1	X	263.76621	298.53651	112.41480	11.21065	0.1088088	0.18915784	3.0055214	20	8 8.8	20.4
400196 2006 YL_{13}	16.7	X	91.14887	91.46323	327.87448	27.06696	0.4005981	0.23480265	2.6021603	20	3 9.2	20.6
400197 2006 YN_{24}	15.6	X	297.02611	219.13541	92.07366	16.77447	0.0664122	0.17851962	3.1237679	20	5 23.7	20.0
400198 2006 YD_{29}	16.3	X	14.52064	325.68364	309.96010	9.62159	0.0828947	0.18392771	3.0622309	20	7 28.6	20.2
400199 2006 YO_{54}	15.8	X	20.17169	134.50482	121.35473	12.35291	0.0943247	0.17717463	3.1395569	20	7 10.8	19.7
400200 2007 AG_{13}	16.9	X	87.42064	271.76942	118.36523	5.53533	0.3147290	0.22962576	2.6411251	20	1 25.4	19.8
400201 2007 AL_{13}	16.4	X	301.39621	270.57157	115.73659	10.83863	0.0684337	0.19319180	2.9635364	20	9 6.6	20.3
400202 2007 AT_{14}	15.6	X	188.07477	325.56305	106.09861	23.74759	0.1519441	0.17776530	3.1325985	20	6 12.8	20.8
400203 2007 AW_{24}	17.0	X	82.73418	86.12322	309.25193	11.52881	0.2788431	0.22744688	2.6579658	20	1 20.3	19.9
400204 2007 AE_{30}	16.7	X	346.73308	255.70314	137.71188	10.10500	0.0537063	0.19974053	2.8984018	20	11 22.0	20.6
400205 2007 BO	15.8	X	125.55511	356.86590	118.80127	16.85758	0.1739762	0.17199236	3.2023094	20	6 9.6	21.1
400206 2007 BT_{8}	15.7	X	80.85197	272.05162	304.76586	12.07012	0.2133655	0.18010221	3.1054415	20	8 26.4	20.5
400207 2007 BC_{16}	16.6	X	86.65725	156.10948	114.80184	7.85630	0.1469409	0.19251028	2.9705265	20	11 6.7	21.3
400208 2007 BZ_{35}	15.9	X	233.58375	282.25445	119.30758	16.89334	0.0917844	0.18099868	3.0951791	20	6 23.2	20.6
400209 2007 BE_{46}	16.5	X	347.73149	87.49903	324.32564	15.43949	0.0844544	0.20386969	2.8591324	20	12 17.9	20.3
400210 2007 BN_{58}	15.5	X	59.47509	277.07730	317.66724	15.17243	0.1203988	0.17607315	3.1526370	20	8 13.1	19.7
400211 2007 BE_{61}	16.0	X	83.34817	325.47661	309.11196	8.47769	0.0093970	0.19773463	2.9179704	20	10 15.9	20.3
400212 2007 BL_{69}	18.0	X	52.74287	359.99809	133.59429	2.29132	0.1131972	0.30485257	2.1864664	20	3 8.6	19.8
400213 2007 BG_{78}	15.9	X	33.38846	114.41563	129.84136	16.63808	0.1962164	0.17537732	3.1609704	20	7 29.5	19.7
400214 2007 BW_{78}	16.1	X	93.26367	225.08415	288.01884	3.96583	0.0699670	0.16960619	3.2322746	20	6 5.5	20.7
400215 2007 CN_{1}	16.2	X	95.71947	94.09075	129.87544	2.36425	0.1624060	0.18133325	3.0913707	20	9 18.4	20.8
400216 2007 CC_{5}	18.5	X	103.03052	357.88434	143.72114	3.80293	0.0795759	0.31652945	2.1323573	20	6 6.1	20.9
400217 2007 CT_{20}	16.4	X	170.48830	306.66420	138.00532	12.96201	0.0487193	0.17369581	3.1813381	20	6 9.8	21.3
400218 2007 CE_{22}	15.9	X	121.35383	50.70013	136.94657	17.90877	0.1596738	0.18140974	3.0905017	20	8 30.9	20.8
400219 2007 CA_{55}	15.3	X	93.14531	260.60618	281.03941	13.17832	0.2369806	0.17195591	3.2027618	20	7 29.8	20.4
400220 2007 CO_{79}	15.6	X	126.03373	63.15263	132.63407	27.80944	0.1447003	0.18130356	3.0917082	20	9 16.1	20.8
400221 2007 DR_{16}	16.0	X	139.96585	193.30383	357.81146	9.66516	0.0402006	0.18549507	3.0449568	20	9 15.7	20.5
400222 2007 DH_{20}	16.6	X	117.55991	191.49630	11.06374	1.23788	0.1206765	0.18037891	3.1022648	20	9 9.9	21.2
400223 2007 DE_{80}	16.2	X	8.15670	335.24359	339.61854	9.28991	0.0808958	0.18277336	3.0751109	20	9 7.7	20.2
400224 2007 DV_{92}	16.3	X	182.70606	303.32422	153.83176	11.41008	0.0578904	0.17553378	3.1590918	20	7 6.9	21.2
400225 2007 DP_{100}	15.8	X	55.42879	125.08601	150.79687	16.53288	0.0569215	0.18223993	3.0811087	20	9 24.2	20.1
400226 2007 DA_{101}	16.0	X	58.90042	67.08229	145.85594	10.36370	0.0385424	0.17223898	3.1992517	20	7 3.2	20.5
400227 2007 EC_{64}	15.7	X	74.83747	282.76544	324.14110	14.40555	0.2011251	0.18175790	3.0865538	20	9 22.2	20.5
400228 2007 ER_{110}	17.8	X	281.65425	133.04729	123.72357	4.21756	0.1085941	0.29376614	2.2411361	20	2 2.7	20.5
400229 2007 EY_{115}	18.0	X	300.16466	232.14358	42.28027	7.17310	0.1252912	0.29954195	2.2122334	20	3 22.0	20.5
400230 2007 EP_{153}	15.8	X	196.53198	341.67313	149.97454	10.74433	0.0438219	0.18163160	3.0879845	20	9 6.6	20.3
400231 2007 EZ_{172}	18.0	X	264.50939	43.07253	220.27890	1.29812	0.1019827	0.29227104	2.2487725	20	1 22.9	20.9
400232 2007 ET_{219}	15.5	X	199.21735	84.74967	32.51319	10.54132	0.1068288	0.17804944	3.1292647	20	8 22.0	20.5
400233 2007 FY_{15}	17.5	X	49.55384	217.81487	312.62697	4.45815	0.0667349	0.30720122	2.1753080	20	4 20.9	19.8
400234 2007 GL_{11}	16.2	X	108.34249	77.72969	138.86671	9.19145	0.0829712	0.17845630	3.1245067	20	9 15.7	20.9
400235 2007 GC_{48}	17.9	X	297.23789	103.44370	152.73367	2.00746	0.1475697	0.29292535	2.2454225	20	2 15.5	20.6
400236 2007 HS_{53}	16.0	X	242.87784	325.36230	94.40399	5.85886	0.0482211	0.17114301	3.2128956	20	7 31.8	20.5
400237 2007 HX_{61}	18.0	X	227.52813	79.09566	170.56373	2.90870	0.1561626	0.28050016	2.3112520	20	—	—
400238 2007 HS_{66}	15.8	X	84.49609	97.91239	203.20781	14.55588	0.0674514	0.18058683	3.0998832	20	11 27.8	20.5
400239 2007 HA_{85}	17.9	X	253.73887	205.77374	69.92961	4.92034	0.1608988	0.28755031	2.2733178	20	1 25.0	21.3
400240 2007 HX_{95}	18.2	X	233.81886	185.87241	120.17428	11.81232	0.2549674	0.28445373	2.2897863	20	2 10.4	22.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
400241 2007 JX_{44}	18.1	X	283.61019	46.35951	229.44153	6.84614	0.1581045	0.29197373	2.2502989	20	2 20.9	21.4
400242 2007 NZ_{4}	17.2	X	224.00324	254.54137	107.29598	5.37930	0.2767511	0.28571817	2.2830258	20	4 11.6	21.1
400243 2007 ON_{6}	17.4	X	150.29994	208.54099	107.45702	10.43516	0.2254954	0.26391466	2.4070976	20	—	—
400244 2007 PD_{11}	17.0	X	155.47060	64.26721	285.38471	5.99965	0.1260072	0.26737454	2.3862871	20	1 22.2	20.2
400245 2007 PW_{17}	17.5	X	216.31709	36.28241	332.30924	0.60809	0.2261061	0.28440479	2.2900490	20	4 12.9	21.1
400246 2007 PN_{23}	17.1	X	117.49262	92.41457	283.52362	9.54914	0.3015529	0.26237878	2.4164821	20	2 3.7	20.5
400247 2007 PA_{24}	17.6	X	209.74672	55.23682	273.30383	5.15662	0.2144789	0.27583951	2.3372136	20	2 17.1	21.6
400248 2007 PW_{25}	18.2	X	219.82851	352.46705	1.11489	3.18259	0.2747153	0.28164154	2.3050034	20	3 26.7	22.2
400249 2007 PF_{26}	17.5	X	228.17044	235.72980	126.16993	3.53298	0.1790729	0.28499097	2.2869078	20	4 19.1	21.0
400250 2007 PY_{36}	17.7	X	240.22163	92.09422	201.40719	4.58647	0.2411602	0.27861497	2.3216660	20	1 29.7	21.7
400251 2007 PS_{39}	17.8	X	254.43106	147.14518	158.98447	5.58748	0.1835008	0.28399200	2.2922676	20	3 1.8	21.4
400252 2007 PR_{49}	17.6	X	258.17111	80.82111	175.98529	2.50806	0.2217235	0.27512366	2.3412660	20	1 2.5	21.3
400253 2007 PT_{50}	18.0	X	247.15460	31.57776	296.13758	1.65788	0.2240331	0.28493734	2.2871947	20	3 18.3	21.7
400254 2007 RC	17.8	X	224.69760	225.76283	109.29357	3.66566	0.1963526	0.28029976	2.3123535	20	3 12.2	21.4
400255 2007 RW_{4}	16.9	X	121.88318	84.12720	308.10637	7.46023	0.1718313	0.26536629	2.3983112	20	2 13.3	20.0
400256 2007 RG_{24}	17.1	X	208.78807	35.95526	312.44360	7.20026	0.1391985	0.27775430	2.3264596	20	3 11.4	20.8
400257 2007 RF_{26}	18.4	X	189.17815	160.65722	158.28638	2.62628	0.2269061	0.27059790	2.3672989	20	1 22.6	22.2
400258 2007 RG_{36}	17.9	X	122.46068	43.15271	302.62397	1.34982	0.2172359	0.25710835	2.4493937	20	—	—
400259 2007 RR_{65}	18.2	X	157.88805	147.16426	181.89755	0.87940	0.2012545	0.26423770	2.4051354	20	1 7.3	21.8
400260 2007 RK_{87}	17.5	X	105.30623	249.40359	169.89868	2.45788	0.1997308	0.26463097	2.4027519	20	3 4.6	20.4
400261 2007 RM_{115}	18.0	X	113.84534	155.88140	255.28639	2.04156	0.2325180	0.26415902	2.4056130	20	3 7.9	21.3
400262 2007 RY_{117}	17.9	X	276.72468	67.70610	216.38613	2.27342	0.2208399	0.28078805	2.3096719	20	2 20.4	21.5
400263 2007 RP_{137}	15.3	X	196.52243	131.46382	262.43339	1.72562	0.2710472	0.12465208	3.9688957	20	5 1.4	21.9
400264 2007 RW_{139}	18.0	X	171.86708	52.26427	268.02069	1.46352	0.2272058	0.26524979	2.3990134	20	1 11.0	22.0
400265 2007 RP_{143}	17.9	X	141.38649	102.33634	241.43363	1.39883	0.1976053	0.26183361	2.4198352	20	1 8.9	21.4
400266 2007 RP_{147}	17.2	X	142.15133	6.35427	29.66599	5.53186	0.1864618	0.26924669	2.3752125	20	3 15.5	20.7
400267 2007 RU_{148}	17.9	X	207.35790	213.97801	141.95149	3.96172	0.2300423	0.27758527	2.3274040	20	3 22.6	21.7
400268 2007 RO_{149}	17.8	X	214.25013	207.55909	119.47689	6.07204	0.2513916	0.27456917	2.3444171	20	2 21.9	21.8
400269 2007 RE_{206}	17.6	X	119.19242	151.36882	179.12390	1.12663	0.1945087	0.25539564	2.4603321	20	—	—
400270 2007 RA_{218}	17.8	X	156.57783	221.22123	152.97059	1.91780	0.1872483	0.26457309	2.4031023	20	2 29.7	21.6
400271 2007 RQ_{220}	17.9	X	169.78553	353.56151	295.51778	1.50842	0.1793229	0.25624709	2.4548790	20	—	—
400272 2007 RL_{227}	17.9	X	186.94676	225.40383	73.33365	2.20060	0.1659326	0.26281732	2.4137932	20	—	—
400273 2007 RO_{233}	17.3	X	144.27793	223.99991	127.20503	6.27083	0.2119316	0.26246827	2.4159328	20	1 22.7	20.7
400274 2007 RF_{235}	17.7	X	246.19822	305.59204	346.21130	4.27392	0.1775023	0.27605662	2.3359880	20	2 7.2	21.3
400275 2007 RE_{243}	17.7	X	180.69207	280.88043	68.66050	2.11962	0.2119620	0.27104844	2.3646749	20	2 22.3	21.5
400276 2007 RC_{246}	17.9	X	113.50378	259.68470	100.46166	3.18305	0.2263849	0.25830424	2.4418278	20	1 2.3	20.7
400277 2007 RO_{265}	17.6	X	312.05690	5.05285	182.66635	5.55264	0.0282951	0.26441634	2.4040520	20	—	—
400278 2007 RE_{301}	17.8	X	219.98270	207.13660	105.74754	1.69168	0.2233915	0.27187323	2.3598899	20	2 8.9	21.8
400279 2007 RP_{302}	18.2	X	170.75416	322.98116	17.28768	1.26193	0.1848556	0.26313446	2.4118533	20	2 1.2	21.8
400280 2007 RH_{310}	17.1	X	299.55450	48.74474	258.92200	6.79009	0.1395642	0.29085084	2.2560869	20	5 2.3	19.5
400281 2007 RT_{311}	17.3	X	97.68817	301.50300	80.40268	6.83093	0.1850544	0.25905516	2.4371068	20	1 2.3	19.9
400282 2007 RV_{314}	18.2	X	171.92792	118.86383	267.02651	3.81206	0.2505660	0.27435085	2.3456606	20	3 29.0	22.3
400283 2007 SY_{3}	17.6	X	183.01172	259.81546	101.05256	3.37999	0.2282843	0.27260620	2.3556580	20	3 10.0	21.6
400284 2007 SK_{10}	17.5	X	256.31174	52.77122	217.01230	5.63404	0.1800040	0.27221114	2.3579366	20	1 18.3	21.3
400285 2007 SO_{20}	18.0	X	142.20109	207.26706	161.78368	1.42335	0.2059322	0.25995698	2.4314671	20	2 11.4	21.4
400286 2007 TQ_{9}	17.6	X	169.25674	96.36648	261.81576	0.38522	0.2013105	0.26912252	2.3759430	20	2 21.6	21.2
400287 2007 TE_{10}	17.4	X	171.60500	139.81943	181.87909	2.04285	0.2256970	0.26299565	2.4127019	20	1 12.4	21.2
400288 2007 TJ_{46}	16.6	X	43.16571	336.32519	42.69407	13.34950	0.1035045	0.24005575	2.5640587	20	—	—
400289 2007 TH_{51}	17.4	X	224.77685	131.21415	201.31442	4.05351	0.1648241	0.27418269	2.3466196	20	3 7.9	21.1
400290 2007 TT_{64}	17.8	X	159.18475	224.97145	146.52085	1.77139	0.1912995	0.26514048	2.3996727	20	2 29.1	21.6
400291 2007 TS_{69}	17.0	X	298.73303	167.91181	318.30137	6.34866	0.1593613	0.23343650	2.6123029	20	—	—
400292 2007 TM_{79}	17.5	X	193.57933	40.93125	291.95367	1.15820	0.2261578	0.26789902	2.3831715	20	2 12.1	21.4
400293 2007 TU_{89}	18.0	X	196.21197	200.76375	120.98555	3.27974	0.1837419	0.26496255	2.4007469	20	1 31.6	22.0
400294 2007 TJ_{91}	17.4	X	219.36129	89.27116	234.80239	8.43469	0.2371881	0.27294376	2.3537153	20	2 17.6	21.6
400295 2007 TL_{111}	16.9	X	134.97694	31.74895	355.49776	11.99860	0.1876026	0.26471436	2.4022473	20	2 27.2	20.4
400296 2007 TJ_{119}	16.5	X	206.86611	245.95922	254.34104	11.40134	0.1293651	0.21860494	2.7291625	20	9 19.4	20.9
400297 2007 TQ_{124}	15.5	X	217.49142	319.84193	63.51855	4.36213	0.3225748	0.12458606	3.9702977	20	5 2.9	22.2
400298 2007 TU_{124}	16.4	X	220.30183	3.46442	197.43043	12.32871	0.0663647	0.24039906	2.5616171	20	—	—
400299 2007 TN_{126}	17.9	X	224.65523	168.57484	193.00356	2.70259	0.2496012	0.27913366	2.3187891	20	4 10.6	21.9
400300 2007 TQ_{126}	17.5	X	112.07948	320.68059	93.80229	1.35960	0.1804660	0.26167908	2.4207878	20	3 5.0	20.5
400301 2007 TU_{134}	17.7	X	181.71364	143.82473	226.68916	2.21971	0.1875104	0.27459169	2.3442888	20	3 17.0	21.5
400302 2007 TD_{136}	17.5	X	229.02943	132.14401	182.04811	1.39981	0.1980482	0.27225203	2.3577005	20	2 17.8	21.4
400303 2007 TT_{148}	17.1	X	125.94555	230.45434	191.52014	12.36456	0.1683041	0.27037839	2.3685800	20	3 27.6	20.4
400304 2007 TB_{150}	17.3	X	130.50348	137.92640	284.28861	3.90992	0.2344702	0.26980112	2.3719574	20	4 7.2	21.0
400305 2007 TW_{152}	17.7	X	136.00983	156.10292	237.28775	1.64889	0.2240954	0.26575724	2.3959586	20	3 7.4	21.3
400306 2007 TO_{182}	16.6	X	142.19114	307.23759	71.22566	10.07174	0.2237257	0.26326655	2.4110465	20	2 29.7	20.5
400307 2007 TJ_{184}	16.9	X	132.26666	285.91752	90.45637	7.43740	0.1189332	0.26018112	2.4300704	20	2 1.2	20.2
400308 Antonkutter	16.9	X	130.45703	252.13427	41.21818	6.21664	0.1148213	0.24221333	2.5488094	20	—	—
400309 Ralfhofner	17.6	X	201.05235	44.83010	273.91300	5.58792	0.1620412	0.26457229	2.4031072	20	1 30.3	21.5
400310 2007 TX_{185}	17.2	X	107.87306	322.41156	100.32415	2.96356	0.1915421	0.26389506	2.4072168	20	3 13.0	20.2
400311 2007 TD_{244}	18.1	X	191.53478	109.55939	265.14519	4.38883	0.2239189	0.27436482	2.3455810	20	3 29.9	22.2
400312 2007 TE_{244}	14.5	X	213.71266	113.32745	271.57703	7.40844	0.1848755	0.12440445	3.9741607	20	5 5.5	20.9
400313 2007 TH_{274}	17.6	X	120.71390	13.92052	29.04300	2.96174	0.1903226	0.26707696	2.3880593	20	3 1.5	20.9
400314 2007 TT_{281}	16.5	X	209.15603	247.49740	277.26243	13.36655	0.1578618	0.21239956	2.7820631	20	10 18.7	21.0
400315 2007 TT_{325}	17.1	X	215.03343	302.14274	240.62959	8.83175	0.0504541	0.23481905	2.6020392	20	12 9.3	20.5
400316 2007 TT_{330}	17.4	X	202.94512	56.01413	293.02432	1.82807	0.2033813	0.27161615	2.3613788	20	3 9.1	21.4
400317 2007 TP_{332}	16.0	X	240.06337	127.58306	241.39524	3.26149	0.3268434	0.12689272	3.9220361	20	4 30.4	22.6
400318 2007 TU_{338}	17.9	X	169.35915	268.93722	44.27527	7.88563	0.2341303	0.26176532	2.4202560	20	1 1.8	22.0
400319 2007 TB_{356}	17.4	X	144.42024	299.11364	67.17285	8.47632	0.1744622	0.26165337	2.4209463	20	2 10.0	21.1
400320 2007 TG_{357}	15.4	X	213.18987	50.08421	332.80462	1.17883	0.2279846	0.12263848	4.0122213	20	5 2.1	21.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
400321 2007 TH_{367}	17.2	X	97.32987	347.82732	82.05365	6.87546	0.1597188	0.26180852	2.4199898	20	3 6.3	20.2
400322 2007 TH_{385}	17.2	X	195.78966	257.87769	114.55694	5.25107	0.1774736	0.27675022	2.3320833	20	4 4.2	20.9
400323 2007 TJ_{411}	17.9	X	167.20755	255.66474	57.83296	2.15488	0.1921762	0.25977123	2.4326260	20	—	—
400324 2007 TC_{412}	18.0	X	183.46558	91.11164	288.32819	3.85022	0.1640143	0.27346843	2.3507038	20	3 28.1	21.8
400325 2007 TG_{431}	17.9	X	239.38922	268.71851	16.30069	1.76949	0.1345880	0.26488570	2.4012113	20	1 26.5	21.5
400326 2007 TS_{432}	17.2	X	183.44116	295.73243	219.88978	3.68620	0.2334252	0.21802199	2.7340253	20	9 14.3	22.0
400327 2007 TM_{443}	17.6	X	159.84606	205.21460	183.66644	12.17700	0.2548839	0.26790026	2.3831641	20	3 25.7	21.5
400328 2007 TJ_{447}	16.7	X	151.02266	216.23742	43.41916	14.16671	0.1224048	0.23720105	2.5845899	20	12 27.5	20.9
400329 2007 UM_{8}	16.4	X	30.88339	143.30497	269.50720	11.41943	0.0274747	0.24478037	2.5309583	20	—	—
400330 2007 UW_{10}	16.9	X	137.10038	89.14494	308.73678	5.33778	0.1334724	0.26530498	2.3986807	20	3 3.5	20.2
400331 2007 UA_{18}	17.0	X	84.06727	302.84694	121.98216	7.28735	0.2014943	0.25692938	2.4505310	20	2 13.3	19.5
400332 2007 UQ_{18}	17.7	X	187.67575	143.00349	222.91278	2.65494	0.2513101	0.27057797	2.3674151	20	3 17.9	21.8
400333 2007 UO_{33}	17.0	X	159.02026	128.74715	249.90424	9.44882	0.2614223	0.26624671	2.3930212	20	3 8.3	21.3
400334 2007 UB_{34}	17.4	X	18.82785	305.50960	102.57878	9.62041	0.1582352	0.24005920	2.5640342	20	—	—
400335 2007 UO_{34}	16.8	X	183.11123	100.78832	277.19055	6.80751	0.1176679	0.27132939	2.3630422	20	3 23.0	20.4
400336 2007 UZ_{52}	16.6	X	104.91131	218.37170	38.63153	13.26877	0.0792331	0.22807383	2.6530926	20	11 5.1	20.5
400337 2007 UZ_{65}	18.0	X	186.78090	127.65838	233.72832	0.46673	0.1805849	0.27106486	2.3645794	20	3 10.8	21.9
400338 2007 UC_{71}	17.0	X	214.67907	311.31884	208.56092	4.35085	0.1143995	0.22626248	2.6672334	20	10 31.1	20.7
400339 2007 UL_{82}	17.7	X	193.99486	337.66255	331.07346	0.78660	0.1844022	0.26106636	2.4245740	20	1 14.4	21.5
400340 2007 UO_{100}	16.5	X	241.70078	332.52396	240.41672	13.34064	0.0532448	0.24242047	2.5473573	20	—	—
400341 2007 UB_{127}	17.0	X	193.41981	239.02304	63.83297	6.80180	0.1083002	0.25542331	2.4601544	20	1 4.6	20.6
400342 2007 UY_{132}	17.4	X	219.14065	187.79517	125.30500	3.28213	0.2249728	0.26530341	2.3986902	20	2 9.1	21.5
400343 2007 VJ_{2}	16.5	X	335.11290	178.05073	248.53522	13.28829	0.2314617	0.23222285	2.6213967	20	—	—
400344 2007 VP_{12}	16.5	X	41.10489	109.76289	247.85770	13.03933	0.1445881	0.23589391	2.5941289	20	—	—
400345 2007 VC_{40}	15.4	X	228.56497	235.37403	130.27415	4.75768	0.2942269	0.12404327	3.9818715	20	4 23.0	22.0
400346 2007 VT_{47}	17.1	X	37.92148	31.67982	350.62356	4.52155	0.1421461	0.23922718	2.5699758	20	—	—
400347 2007 VD_{59}	17.1	X	149.81380	120.53316	262.61655	6.42870	0.0966709	0.26201363	2.4187267	20	2 22.7	20.5
400348 2007 VO_{61}	17.3	X	165.44464	243.75692	47.99635	9.48177	0.1242029	0.24630257	2.5205197	20	—	—
400349 2007 VG_{80}	17.0	X	248.42345	316.67946	243.86103	12.48065	0.0931717	0.23971134	2.5665142	20	—	—
400350 2007 VD_{84}	17.2	X	15.90711	187.85133	218.01847	4.31754	0.3017674	0.23679726	2.5875273	20	—	—
400351 2007 VK_{91}	16.0	X	279.91366	216.73413	252.80652	20.81320	0.0617082	0.22834954	2.6509566	20	11 28.2	19.2
400352 2007 VA_{100}	17.5	X	299.68307	216.54053	294.63754	2.73867	0.1146865	0.23865145	2.5741074	20	—	—
400353 2007 VX_{104}	17.6	X	166.99914	138.97762	242.57929	4.45434	0.1881919	0.26725465	2.3870007	20	3 17.0	21.5
400354 2007 VV_{109}	17.4	X	201.81805	85.05582	238.65978	13.13387	0.2664997	0.26583449	2.3954944	20	2 3.5	21.9
400355 2007 VX_{126}	18.2	X	34.57319	97.24862	243.26052	20.42345	0.0970222	0.38657901	1.8662817	20	—	—
400356 2007 VP_{135}	17.5	X	240.67548	253.41171	244.18410	19.57908	0.0514866	0.38469461	1.8723713	20	12 23.9	19.1
400357 2007 VW_{156}	17.4	X	217.43179	353.73943	158.38658	2.84935	0.0736572	0.22403000	2.6849236	20	10 29.9	21.0
400358 2007 VN_{161}	16.7	X	138.17579	37.25255	249.21862	12.77635	0.1690578	0.24020694	2.5629828	20	—	—
400359 2007 VH_{173}	15.6	X	223.30989	191.40588	205.29995	12.54465	0.3069847	0.12524047	3.9564551	20	5 22.6	22.3
400360 2007 VY_{180}	15.0	X	217.88657	320.98545	55.74996	4.22491	0.2370160	0.12282390	4.0081822	20	4 29.2	21.6
400361 2007 VL_{189}	17.0	X	298.32258	256.05501	206.73270	21.68136	0.0292780	0.23695428	2.5863840	20	12 18.4	20.7
400362 2007 VK_{219}	17.6	X	159.35327	314.52523	48.92780	1.79123	0.1846058	0.26043150	2.4285127	20	2 19.8	21.4
400363 2007 VE_{226}	16.8	X	266.80503	28.07865	70.53226	12.63478	0.1570965	0.22377805	2.6869385	20	10 17.1	20.3
400364 2007 VG_{272}	17.6	X	165.05698	31.08835	264.27643	2.95208	0.2240176	0.25300754	2.4757896	20	—	—
400365 2007 VQ_{297}	15.9	X	306.12062	263.65044	101.56537	14.34925	0.1349659	0.21809678	2.7334001	20	8 10.0	19.2
400366 2007 VT_{306}	16.7	X	220.27150	347.74979	256.18400	14.02021	0.0446191	0.24282775	2.5445081	20	—	—
400367 2007 VQ_{308}	17.4	X	89.97531	85.71159	244.57867	4.77478	0.1208908	0.23878028	2.5731815	20	—	—
400368 2007 VG_{313}	17.5	X	85.10816	236.17478	94.22510	2.45366	0.1045622	0.23694826	2.5864278	20	—	—
400369 2007 VT_{332}	16.6	X	38.77867	306.66472	103.88808	6.88087	0.1288445	0.23566797	2.5957867	20	—	—
400370 2007 WM_{4}	16.5	X	37.02300	280.51764	121.22505	29.76474	0.2899020	0.23421585	2.6065048	20	—	—
400371 2007 WP_{10}	16.6	X	329.06227	193.73441	294.69051	6.28242	0.1204566	0.24356717	2.5393558	20	—	—
400372 2007 WK_{21}	17.6	X	106.56130	105.30978	280.43239	6.00470	0.1146484	0.25481857	2.4640452	20	1 9.9	20.6
400373 2007 WW_{29}	17.3	X	134.58816	37.86252	328.27470	4.24984	0.1978627	0.25687900	2.4508514	20	1 31.2	20.9
400374 2007 WD_{58}	17.1	X	188.14492	353.20182	342.84115	5.25058	0.1156115	0.26256623	2.4153318	20	2 9.5	20.7
400375 2007 WP_{63}	16.0	X	245.12389	213.52107	258.93044	24.76703	0.1299066	0.22109762	2.7086112	20	9 21.8	20.4
400376 2007 XX_{2}	17.9	X	15.27601	307.92211	91.51025	24.37008	0.0683833	0.38783013	1.8622659	20	—	—
400377 2007 XL_{42}	17.4	X	20.02217	155.19287	273.09517	2.86899	0.1636377	0.23324907	2.6137022	20	—	—
400378 2007 XT_{50}	17.8	X	167.49326	43.37626	119.15260	24.71293	0.0777829	0.36220108	1.9491094	20	10 17.4	20.8
400379 2007 XH_{51}	17.5	X	291.68746	40.33298	86.55734	4.04665	0.1430583	0.23008602	2.6376017	20	—	—
400380 2007 XN_{54}	17.5	X	89.23007	82.82140	300.72712	14.10694	0.1996431	0.24225898	2.5484891	20	—	—
400381 2007 YB_{24}	16.5	X	183.03770	342.98535	292.17554	12.80622	0.1385604	0.23606078	2.5929063	20	—	—
400382 2007 YA_{32}	17.7	X	338.79631	264.89060	110.45503	24.06584	0.1262985	0.37526326	1.9036131	20	12 16.0	19.4
400383 2007 YN_{37}	16.1	X	49.44361	291.80673	99.44770	22.81886	0.0223172	0.23299512	2.6156010	20	—	—
400384 2007 YX_{45}	17.3	X	133.67544	259.65157	126.98881	2.44909	0.2744710	0.25424010	2.4677814	20	3 4.2	21.1
400385 2007 YP_{46}	17.7	X	348.03724	319.55635	114.99813	23.91363	0.0959977	0.38677890	1.8656387	20	—	—
400386 2007 YV_{49}	16.5	X	46.81029	261.48049	105.81459	14.30394	0.1973583	0.23058652	2.6337837	20	—	—
400387 2007 YH_{56}	16.3	X	261.77791	191.97610	303.96200	12.15525	0.0943160	0.21897972	2.7260477	20	11 28.6	20.0
400388 2007 YW_{56}	16.5	X	22.78262	142.74089	302.86975	21.46867	0.0387374	0.23551071	2.5969421	20	—	—
400389 2007 YJ_{74}	16.7	X	339.20329	319.86384	138.68218	14.66438	0.2129299	0.22804147	2.6533436	20	—	—
400390 2008 AH	16.1	X	341.48909	170.20844	297.18933	14.27019	0.0578211	0.23269201	2.6178720	20	—	—
400391 2008 AT_{6}	16.6	X	219.93754	338.76870	254.48501	15.98167	0.0822756	0.24068724	2.5595719	20	—	—
400392 2008 AL_{7}	16.2	X	78.58391	212.11759	118.47814	15.16543	0.0981362	0.22465426	2.6799475	20	—	—
400393 2008 AG_{62}	17.2	X	176.54879	103.03111	284.71216	5.11273	0.1333102	0.26065271	2.4271384	20	3 31.1	21.1
400394 2008 AM_{64}	17.0	X	56.97693	110.58955	287.35698	9.07107	0.0575060	0.23331889	2.6131807	20	—	—
400395 2008 AL_{77}	16.1	X	74.51955	71.52621	99.45532	10.63021	0.1114009	0.18384958	3.0630984	20	6 11.7	20.2
400396 2008 AK_{80}	16.9	X	267.44293	228.86896	270.42065	3.86427	0.0045717	0.22031780	2.7149989	20	12 23.5	20.6
400397 2008 AY_{80}	16.9	X	121.07626	21.99369	144.42557	9.38157	0.1391642	0.19158956	2.9800359	20	8 1.4	21.5
400398 2008 AJ_{92}	16.5	X	21.59019	356.99765	330.98241	8.24236	0.0410473	0.21146847	2.7902233	20	10 11.8	20.3
400399 2008 AP_{94}	17.3	X	158.01189	261.29095	109.95793	4.18885	0.2003275	0.25407372	2.4688586	20	3 1.6	21.3
400400 2008 AJ_{95}	17.2	X	351.06118	267.01849	128.08597	4.96578	0.1778993	0.22210270	2.7004335	20	12 16.8	20.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
400401 2008 AJ_{110}	16.4	X	330.00064	320.02331	137.55044	22.48168	0.0562116	0.22591011	2.6700062	20	—	—
400402 2008 AP_{111}	16.4	X	344.72338	129.29129	312.95127	8.30482	0.0793716	0.22638048	2.6663064	20	—	—
400403 2008 BJ_{3}	16.5	X	197.40086	231.37619	312.66612	8.39359	0.1438734	0.21502832	2.7593425	20	11 3.1	21.0
400404 2008 BP_{3}	16.8	X	82.84799	262.99041	132.33605	14.61320	0.1034813	0.24119384	2.5559866	20	—	—
400405 2008 BU_{17}	16.4	X	287.49096	300.61441	119.91876	13.48660	0.0859516	0.21171618	2.7880465	20	10 5.2	20.2
400406 2008 BO_{20}	16.1	X	323.95581	132.61819	325.87577	11.74982	0.1462704	0.22574260	2.6713269	20	—	—
400407 2008 BD_{44}	17.1	X	56.82022	40.40980	17.46510	5.62019	0.2192952	0.24229878	2.5482101	20	—	—
400408 2008 BW_{47}	16.0	X	47.58829	5.68061	173.82884	27.42205	0.1183274	0.17099781	3.2147141	20	5 19.5	20.6
400409 2008 CF_{6}	15.2	X	41.87226	128.05460	121.32369	27.90861	0.2366250	0.17416134	3.1756664	20	8 28.9	19.5
400410 2008 CE_{16}	16.3	X	352.42406	317.70271	110.49427	13.98701	0.0056973	0.22382718	2.6865453	20	—	—
400411 2008 CQ_{22}	17.2	X	347.02848	193.82833	152.39517	24.03089	0.0719137	0.36247888	1.9481134	20	11 3.6	19.5
400412 2008 CL_{33}	16.2	X	45.15124	171.01055	262.83404	11.65366	0.2496649	0.24190283	2.5509899	20	—	—
400413 2008 CG_{43}	16.5	X	56.71183	213.38392	122.30545	7.27807	0.0454374	0.21180781	2.7872424	20	12 11.2	20.4
400414 2008 CH_{54}	16.4	X	172.38856	302.64446	292.08288	10.17183	0.1525968	0.21678141	2.7444460	20	12 12.9	20.8
400415 2008 CM_{61}	16.4	X	105.08412	138.47632	150.39517	11.05518	0.1587258	0.20895991	2.8125099	20	12 16.8	21.1
400416 2008 CY_{68}	16.8	X	151.68121	170.24046	64.61120	8.02262	0.0805270	0.21570932	2.7535319	20	11 25.7	21.0
400417 2008 CJ_{73}	16.7	X	80.45642	298.64122	111.27352	13.65996	0.1562961	0.24159989	2.5531220	20	1 12.6	19.2
400418 2008 CE_{78}	17.2	X	47.38374	276.42319	103.50747	13.52674	0.2757506	0.23610989	2.5925468	20	—	—
400419 2008 CL_{88}	16.4	X	139.41027	130.19527	116.24548	7.54578	0.0851196	0.20925952	2.8098247	20	11 27.5	20.7
400420 2008 CM_{98}	16.9	X	176.72383	65.48578	144.37336	4.02902	0.0340376	0.21293534	2.7773944	20	11 25.3	20.9
400421 2008 CQ_{100}	15.6	X	104.13460	269.27046	270.21778	19.61278	0.2004163	0.18969825	2.9998105	20	7 31.3	20.6
400422 2008 CN_{104}	16.7	X	124.09358	225.00566	31.11761	4.13585	0.0504053	0.21120095	2.7925790	20	11 20.3	20.7
400423 2008 CG_{115}	17.2	X	124.27677	98.06468	112.69883	24.35820	0.0875592	0.35994615	1.9572412	20	11 2.5	20.4
400424 2008 CN_{126}	16.6	X	218.88745	294.52652	151.25287	11.69182	0.0665523	0.19652866	2.9298954	20	8 3.0	20.9
400425 2008 CX_{126}	17.1	X	139.90278	358.22302	162.59291	1.61947	0.0855018	0.19388901	2.9564276	20	8 10.9	21.4
400426 2008 CO_{153}	16.9	X	355.00200	312.62097	143.14970	13.00562	0.1503530	0.22855104	2.6493982	20	—	—
400427 2008 CD_{154}	16.9	X	33.41319	250.59565	124.48519	7.28792	0.0850209	0.21646699	2.7471029	20	—	—
400428 2008 CG_{165}	16.7	X	267.63160	190.28890	320.48841	11.18663	0.0585447	0.21812177	2.7331914	20	—	—
400429 2008 CK_{178}	16.4	X	262.09605	146.95762	343.88990	11.03668	0.0875974	0.21763101	2.7372987	20	11 21.2	20.2
400430 2008 CH_{190}	15.5	X	58.50269	282.90060	257.10722	20.88455	0.2763788	0.17632375	3.1496491	20	6 24.7	19.7
400431 2008 CL_{204}	16.0	X	77.21837	148.88839	50.09783	12.76639	0.1341627	0.18102960	3.0948265	20	7 27.3	20.6
400432 2008 CN_{214}	16.9	X	28.15939	29.87942	353.41044	12.47591	0.0222165	0.21606020	2.7505499	20	—	—
400433 2008 DM_{8}	16.4	X	51.26168	215.93160	143.36433	12.41299	0.0440252	0.21875623	2.7279041	20	—	—
400434 2008 DP_{8}	16.2	X	118.69359	258.73382	263.49263	9.57698	0.2095833	0.18950070	3.0018951	20	7 28.4	21.2
400435 2008 DA_{23}	15.9	X	180.85619	277.11539	281.30570	11.31158	0.1530463	0.21124443	2.7921958	20	11 3.6	20.6
400436 2008 DE_{46}	17.0	X	58.50810	269.79322	102.51833	6.62377	0.0365917	0.22190174	2.7020636	20	—	—
400437 2008 DQ_{60}	16.5	X	320.67589	323.64031	43.23147	2.58479	0.0826300	0.19840075	2.9114355	20	9 7.1	20.1
400438 2008 DS_{68}	16.4	X	241.43028	339.33262	171.88103	9.98200	0.1471564	0.20947031	2.8079394	20	11 15.1	20.4
400439 2008 DE_{79}	16.0	X	5.61872	108.76373	185.03266	25.75848	0.2206303	0.17887404	3.1196402	20	8 13.5	19.7
400440 2008 DG_{81}	16.5	X	21.81393	125.20657	171.04090	6.92103	0.0862561	0.19020607	2.9944689	20	9 5.7	20.4
400441 2008 EM_{1}	16.6	X	202.66351	289.83278	279.53892	11.83562	0.1486196	0.21878514	2.7276638	20	12 12.6	20.7
400442 2008 EA_{3}	16.4	X	86.59002	151.57214	90.84541	7.38289	0.0113843	0.19983583	2.8974802	20	9 18.1	20.5
400443 2008 EH_{29}	16.3	X	5.09175	244.25128	29.97007	12.21146	0.1373794	0.17627163	3.1502699	20	7 16.0	20.2
400444 2008 EX_{34}	16.2	X	73.80773	266.92397	305.94018	1.15279	0.2083110	0.18255674	3.0775431	20	8 16.9	20.7
400445 2008 EV_{41}	16.1	X	76.33075	130.40451	177.05923	12.29104	0.1180349	0.20194061	2.8773119	20	12 6.6	20.6
400446 2008 EH_{64}	17.0	X	36.11513	176.17559	207.55719	5.69561	0.0343560	0.21618314	2.7495071	20	—	—
400447 2008 EJ_{81}	16.7	X	90.28068	208.60163	172.80945	32.98586	0.1925745	0.23446946	2.6046249	20	—	—
400448 2008 EA_{135}	16.6	X	246.15679	269.53700	156.25214	5.98513	0.0759267	0.19124864	2.9835762	20	8 8.8	21.0
400449 2008 EG_{137}	16.6	X	90.14901	123.59565	48.07770	4.37982	0.1338659	0.17920189	3.1158341	20	7 5.0	21.1
400450 2008 EM_{147}	16.2	X	12.14325	259.56645	13.05041	12.67661	0.0181784	0.18350800	3.0668983	20	7 20.1	20.6
400451 2008 EO_{152}	16.2	X	352.77897	249.08340	43.99897	14.60929	0.1004484	0.17949566	3.1124335	20	7 20.0	20.3
400452 2008 EP_{154}	16.6	X	17.35256	236.14436	24.19195	9.95261	0.1065105	0.17682525	3.1436911	20	7 15.8	20.7
400453 2008 EH_{162}	16.8	X	123.98873	125.79938	29.64866	2.66967	0.0245489	0.18378206	3.0638486	20	7 11.7	21.1
400454 2008 FJ_{22}	15.6	X	96.72210	109.53498	57.71176	11.56405	0.0664706	0.17749647	3.1357606	20	6 27.4	20.2
400455 2008 FD_{25}	15.5	X	203.58957	181.98186	189.43947	15.56714	0.0368175	0.16762750	3.2576609	20	4 17.6	20.3
400456 2008 FC_{35}	16.4	X	37.16157	101.83239	174.31925	10.56672	0.0783452	0.19067990	2.9895060	20	8 30.9	20.3
400457 2008 FU_{37}	16.3	X	293.47748	318.07147	39.26321	12.11293	0.0786476	0.18189482	3.0850047	20	7 14.7	20.6
400458 2008 FT_{52}	17.0	X	99.08185	41.34249	125.49713	2.33012	0.1080982	0.17873362	3.1212739	20	7 5.5	21.5
400459 2008 FN_{53}	16.8	X	31.81707	106.52890	136.15012	1.63107	0.1505788	0.17654693	3.1469942	20	7 18.3	20.7
400460 2008 FT_{65}	15.8	X	14.34171	68.28033	198.78961	10.60422	0.0895286	0.17608365	3.1525116	20	7 14.1	20.0
400461 2008 FP_{96}	16.3	X	127.80976	61.58775	146.32717	7.50225	0.1419452	0.19309199	2.9645575	20	9 30.9	21.0
400462 2008 FX_{106}	16.7	X	5.88410	355.08320	33.31030	11.71467	0.1485304	0.20665556	2.8333789	20	12 22.2	20.3
400463 2008 FB_{116}	16.9	X	271.28041	17.18670	80.58406	3.24446	0.0281671	0.20303103	2.8670005	20	10 31.5	20.7
400464 2008 FW_{131}	16.6	X	216.36242	245.48876	187.19819	10.11701	0.0412223	0.18321544	3.0701623	20	7 15.0	21.2
400465 2008 FV_{134}	17.0	X	73.43159	38.03114	165.06239	9.41845	0.0995318	0.17764890	3.1339666	20	7 17.9	21.5
400466 2008 GJ_{4}	15.8	X	63.52563	335.05663	225.18254	30.20566	0.2825332	0.17608575	3.1524866	20	7 19.7	20.9
400467 2008 GG_{11}	16.3	X	52.15103	56.05545	210.45191	4.35656	0.1388303	0.18217794	3.0818076	20	9 15.7	20.5
400468 2008 GS_{17}	16.4	X	318.96540	217.25616	147.35375	9.14255	0.0974080	0.18921873	3.0048766	20	8 29.1	19.9
400469 2008 GB_{19}	16.4	X	95.42999	118.25235	58.95214	14.03899	0.0173896	0.17774953	3.1327837	20	7 1.8	20.9
400470 2008 GZ_{23}	16.0	X	179.03864	63.42698	43.45284	11.16082	0.0950609	0.18436575	3.0573786	20	7 17.3	20.9
400471 2008 GZ_{25}	17.4	X	100.76597	206.19729	133.09539	4.99047	0.0791280	0.21536491	2.7564667	20	—	—
400472 2008 GT_{29}	16.4	X	6.28888	272.80992	9.66118	4.47544	0.1278720	0.18081314	3.0972961	20	7 28.3	20.1
400473 2008 GG_{37}	16.5	X	45.15856	25.58263	196.66210	8.53401	0.1373870	0.17339255	3.1850464	20	7 8.8	20.8
400474 2008 GC_{43}	16.5	X	173.74390	273.80445	198.73095	9.24740	0.0452383	0.18216004	3.0820095	20	7 15.2	21.2
400475 2008 GG_{47}	15.5	X	155.42741	89.39834	67.26248	20.49208	0.1046777	0.18454823	3.0553628	20	9 1.1	20.7
400476 2008 GS_{49}	16.0	X	77.00358	7.66732	193.35286	10.50545	0.0746251	0.17774242	3.1328673	20	7 15.4	20.6
400477 2008 GU_{57}	16.6	X	272.30978	208.78134	184.11936	5.81472	0.0359544	0.18653263	3.0336549	20	8 4.4	20.9
400478 2008 GC_{82}	16.5	X	120.03450	78.38300	75.63186	7.88691	0.0682544	0.17922220	3.1155987	20	7 9.4	21.2
400479 2008 GP_{89}	16.3	X	89.67691	176.65248	56.11446	2.43181	0.2780679	0.18563730	3.0434013	20	10 4.8	21.3
400480 2008 GB_{132}	16.0	X	19.00691	173.63859	153.34521	9.29818	0.1119570	0.18567124	3.0430304	20	10 17.5	20.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
400481 2008 GO_{139}	16.0	X	17.05849	76.07978	193.85654	7.94162	0.0411412	0.17823970	3.1270374	20	7 18.9	20.4
400482 2008 HV_{1}	16.4	X	93.37066	81.53781	137.31461	7.96354	0.1018864	0.18271823	3.0757294	20	9 3.4	20.9
400483 2008 HF_{4}	15.6	X	20.79205	198.81908	93.22597	14.20536	0.1866598	0.18191646	3.0847600	20	9 17.9	19.5
400484 2008 HL_{7}	15.8	X	85.20647	92.68305	161.02116	12.52063	0.1595412	0.18819670	3.0157457	20	10 16.4	20.5
400485 2008 HX_{8}	15.9	X	183.40654	340.55088	106.98919	12.16307	0.1280740	0.17714064	3.1399585	20	6 25.3	20.9
400486 2008 HL_{10}	16.7	X	104.57222	205.47549	26.87288	0.66662	0.1172106	0.19141431	2.9818544	20	10 3.7	21.2
400487 2008 HH_{24}	16.0	X	27.18624	182.35568	136.44816	10.46998	0.0878866	0.18953716	3.0015101	20	10 17.7	20.1
400488 2008 HM_{34}	15.9	X	57.98706	204.90063	90.23026	17.70577	0.1509674	0.18834219	3.0141924	20	11 8.4	20.5
400489 2008 HW_{57}	16.4	X	54.86023	92.78075	138.55381	11.86928	0.0443268	0.17677251	3.1443163	20	7 22.3	20.7
400490 2008 HJ_{69}	15.7	X	40.16744	162.78786	119.38312	14.57663	0.1613898	0.18135640	3.0911076	20	9 30.2	20.0
400491 2008 JW_{3}	16.2	X	23.69732	140.35180	177.59511	17.33577	0.2356664	0.18200971	3.0837063	20	10 29.8	20.1
400492 2008 JG_{4}	16.3	X	31.03753	148.82410	159.73994	8.15006	0.2679469	0.17999701	3.1066514	20	11 2.1	20.3
400493 2008 JJ_{5}	17.0	X	55.34183	62.23762	206.38693	14.21595	0.2777893	0.18541263	3.0458593	20	10 13.5	21.4
400494 2008 JK_{6}	16.1	X	152.00013	32.12376	77.44455	16.71003	0.0397848	0.17424222	3.1746837	20	6 16.9	20.8
400495 2008 JF_{9}	16.0	X	73.60969	138.94232	100.59025	12.28926	0.0996952	0.18186664	3.0853234	20	9 9.5	20.6
400496 2008 JS_{11}	15.8	X	73.30078	28.08129	220.67008	13.18629	0.1030125	0.18281634	3.0746289	20	9 11.8	20.4
400497 2008 JZ_{17}	15.5	X	138.89027	260.41697	211.26068	15.77708	0.0856829	0.16892970	3.2408981	20	6 8.3	20.6
400498 2008 JF_{23}	15.7	X	283.78593	168.20028	207.80094	23.60290	0.0918218	0.17729171	3.1381746	20	7 15.8	20.5
400499 2008 JV_{25}	15.7	X	78.09386	127.93859	109.21888	12.58195	0.0757955	0.18255603	3.0775510	20	9 8.1	20.2
400500 2008 JH_{36}	16.0	X	121.70780	88.75181	93.97939	11.49370	0.1454997	0.18138810	3.0907475	20	8 26.4	21.0
400501 2008 KN_{8}	16.0	X	356.73104	254.75725	72.95039	16.78399	0.2562403	0.17671297	3.1450225	20	9 29.8	19.5
400502 2008 KK_{15}	15.9	X	260.18836	271.41607	112.34820	14.87546	0.1753539	0.17099495	3.2147499	20	6 20.2	20.7
400503 2008 KF_{17}	16.2	X	67.10090	127.94449	106.64967	11.10791	0.1775641	0.17824099	3.1270224	20	9 4.7	20.7
400504 2008 KT_{25}	16.0	X	129.84676	262.83131	215.47797	24.18473	0.2674513	0.17398617	3.1777975	20	6 18.2	21.8
400505 2008 KN_{27}	16.1	X	4.12893	261.27005	75.64337	16.25925	0.3560524	0.18011429	3.1053027	20	11 9.3	19.2
400506 2008 KP_{41}	16.3	X	39.79874	65.19100	197.72888	16.05618	0.2598241	0.17612369	3.1520338	20	9 10.1	20.4
400507 2008 KX_{41}	16.0	X	239.96604	292.36287	109.18410	16.00688	0.0654657	0.17280461	3.1922667	20	7 2.4	20.6
400508 2008 KW_{42}	16.2	X	300.37322	168.34689	139.29644	10.89743	0.1886106	0.16217318	3.3303000	20	5 6.5	20.8
400509 2008 LP_{8}	15.9	X	165.06788	276.02104	193.48920	9.91765	0.0282311	0.17092190	3.2156658	20	7 1.3	20.7
400510 2008 OA_{13}	18.3	X	251.44879	159.55761	183.88354	1.10017	0.1549590	0.31381717	2.1446261	20	4 17.9	21.2
400511 2008 RF_{89}	18.4	X	257.28055	39.11483	327.42753	6.49304	0.1794083	0.31314330	2.1477017	20	5 22.3	21.2
400512 2008 RC_{140}	17.3	X	346.76828	64.08346	70.40991	8.04930	0.0701329	0.27130978	2.3631561	20	—	—
400513 2008 SP_{3}	17.7	X	295.18228	157.12852	152.33928	4.97586	0.2501603	0.31465717	2.1408075	20	4 11.6	20.1
400514 2008 SN_{59}	16.4	X	56.55745	226.35486	184.97720	7.60453	0.1465162	0.18687345	3.0299652	20	—	—
400515 2008 SY_{63}	18.2	X	245.16583	187.09800	192.87152	4.84053	0.1734452	0.31208884	2.1525366	20	5 30.4	21.2
400516 2008 SV_{73}	17.1	X	31.44442	262.80708	208.12323	5.53370	0.0767496	0.28208509	2.3025865	20	—	—
400517 2008 SP_{119}	18.4	X	203.28745	314.70157	87.37502	0.25232	0.1826312	0.30467964	2.1872937	20	5 16.0	21.7
400518 2008 SL_{166}	18.5	X	302.10163	164.03770	156.78876	3.33522	0.2138039	0.31586264	2.1353573	20	5 15.4	20.4
400519 2008 SB_{196}	15.5	X	143.49055	241.97982	185.73778	2.07355	0.1140352	0.12433416	3.9756586	20	4 24.8	21.4
400520 2008 SJ_{223}	17.9	X	355.94832	270.43134	223.25893	4.92220	0.1066689	0.27956356	2.3164113	20	—	—
400521 2008 SH_{236}	15.3	X	76.72850	300.34856	353.52034	26.26127	0.1660794	0.17829982	3.1263345	20	11 8.9	20.5
400522 2008 SN_{243}	18.0	X	234.04098	300.62337	51.87757	4.14074	0.1888674	0.30288845	2.1959085	20	4 10.6	21.4
400523 2008 SY_{245}	17.8	X	291.67471	327.20937	220.47389	6.09009	0.1530668	0.27444026	2.3451511	20	—	—
400524 2008 SR_{257}	16.8	X	132.56147	269.38401	41.45303	6.97209	0.1242735	0.27098352	2.3650526	20	—	—
400525 2008 SU_{266}	18.4	X	317.27377	264.27522	33.43223	4.20036	0.2707288	0.31573028	2.1359540	20	4 23.0	19.9
400526 2008 SK_{273}	17.1	X	201.81006	203.77607	41.80016	6.57767	0.1086376	0.26384898	2.4074971	20	—	—
400527 2008 SL_{283}	18.4	X	302.21677	93.58309	234.68758	0.99940	0.1628808	0.31301514	2.1482879	20	6 5.6	20.2
400528 2008 SM_{309}	15.6	X	160.12303	248.41591	176.44869	3.01906	0.2503958	0.12408149	3.9810539	20	5 12.2	22.1
400529 2008 TZ_{6}	18.9	X	247.38427	357.47437	339.72516	0.53336	0.2278965	0.30703542	2.1760910	20	3 29.7	22.3
400530 2008 TA_{60}	18.0	X	216.94897	123.83016	176.37135	4.15201	0.0812101	0.28763812	2.2728551	20	1 19.5	21.2
400531 2008 TW_{65}	18.3	X	196.78867	151.39867	210.17730	6.03893	0.1707826	0.29810176	2.2193529	20	3 16.6	21.8
400532 2008 UF_{38}	17.3	X	279.09911	122.10628	38.71387	12.20891	0.1262581	0.25919279	2.4362439	20	—	—
400533 2008 UT_{47}	18.2	X	109.14710	147.92342	244.95289	5.76934	0.1086483	0.27755560	2.3275699	20	1 16.7	20.9
400534 2008 UA_{65}	17.9	X	251.21477	76.76185	262.62554	5.14007	0.2009877	0.30365886	2.1921928	20	4 5.4	21.2
400535 2008 UV_{93}	16.9	X	81.46794	344.85148	64.18287	24.99820	0.2308962	0.27439401	2.3454146	20	1 19.3	19.6
400536 2008 UD_{111}	18.2	X	248.67858	345.36811	333.38235	3.12909	0.1839198	0.29950493	2.2124157	20	3 10.5	21.6
400537 2008 UP_{117}	18.7	X	299.95000	23.05560	298.88853	3.41431	0.1825625	0.31183594	2.1537003	20	5 17.2	20.8
400538 2008 UQ_{120}	17.5	X	206.64198	24.85890	290.43547	6.31774	0.1296102	0.28575872	2.2828097	20	1 28.7	20.9
400539 2008 UD_{172}	17.4	X	120.10935	341.33789	40.09000	8.91112	0.1235543	0.27875536	2.3208865	20	1 22.3	20.4
400540 2008 UJ_{213}	17.3	X	50.60794	195.95203	269.15045	5.79021	0.0520955	0.28448697	2.2896080	20	1 19.7	19.8
400541 2008 UU_{214}	17.6	X	247.80879	39.83214	292.10353	4.89099	0.2159728	0.30379467	2.1915394	20	3 21.8	21.2
400542 2008 UX_{226}	18.6	X	294.34427	33.30416	310.26309	1.82162	0.3291946	0.31640889	2.1328989	20	5 14.9	20.8
400543 2008 UX_{228}	17.9	X	215.93049	271.63331	45.12413	8.11963	0.1645960	0.28742040	2.2740028	20	2 12.7	21.5
400544 2008 UK_{230}	16.0	X	205.16278	348.03677	112.28682	26.90123	0.1317568	0.21610021	2.7502104	20	8 3.8	20.3
400545 2008 UE_{243}	17.9	X	304.00151	335.21685	309.96572	6.95275	0.1596549	0.30118088	2.2042006	20	3 29.9	20.6
400546 2008 UB_{256}	17.5	X	58.59988	10.47965	52.59103	7.59034	0.0975844	0.27263762	2.3554770	20	—	—
400547 2008 UT_{281}	17.6	X	79.29222	356.55171	49.09484	7.74097	0.0947286	0.27226148	2.3576459	20	—	—
400548 2008 UF_{286}	17.8	X	91.19793	236.46630	180.01474	4.31393	0.1258309	0.28018062	2.3130090	20	1 25.1	20.2
400549 2008 UF_{308}	16.8	X	323.81668	354.71640	240.00873	24.95701	0.2775271	0.29203109	2.2500042	20	1 21.9	20.3
400550 2008 UV_{320}	18.1	X	258.89921	76.38599	228.67706	7.25863	0.2105132	0.30163558	2.2019849	20	2 26.6	21.6
400551 2008 UR_{368}	17.5	X	264.21859	215.75569	74.85994	7.74894	0.1304296	0.29090983	2.2557820	20	2 29.1	20.7
400552 2008 VL_{27}	17.2	X	280.13506	201.73398	27.40202	8.07089	0.1922823	0.27973330	2.3154742	20	—	—
400553 2008 VK_{46}	18.7	X	276.41055	107.00425	243.62251	1.55589	0.1973306	0.31056610	2.1595670	20	5 23.2	21.0
400554 2008 VA_{58}	18.1	X	233.86931	247.55481	136.99732	5.55013	0.2342703	0.30730369	2.1748244	20	5 19.9	21.6
400555 2008 WK_{41}	17.6	X	297.58873	61.28366	233.54637	7.33780	0.1591367	0.30070835	2.2065091	20	4 5.5	20.2
400556 2008 WU_{42}	18.3	X	163.63770	141.22313	260.59165	4.49631	0.0739823	0.29085320	2.2560748	20	3 30.9	21.5
400557 2008 WL_{45}	17.3	X	269.87733	34.65102	246.45226	5.70441	0.1098435	0.28822262	2.2697813	20	2 18.6	20.5
400558 2008 WJ_{63}	17.3	X	103.09498	349.17914	53.69537	5.67903	0.1437190	0.27681605	2.3317136	20	1 30.9	20.0
400559 2008 WN_{66}	17.3	X	186.56199	261.22589	64.22082	23.96291	0.2931010	0.28566382	2.2833153	20	2 4.8	21.8
400560 2008 WL_{69}	17.4	X	35.84086	242.07889	257.76585	6.28580	0.0719712	0.27979528	2.3151322	20	2 14.0	19.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
400561 2008 WK_{80}	17.4	X	244.61643	35.69370	99.50023	5.32140	0.1768225	0.24134269	2.5549356	20	10 31.5	20.7
400562 2008 WQ_{103}	16.7	X	253.79951	331.59685	251.24205	14.10031	0.1043493	0.27045723	2.3681197	20	—	—
400563 2008 WX_{109}	18.3	X	31.99728	179.32832	261.02323	1.95717	0.0616909	0.26770475	2.3843243	20	—	—
400564 2008 WA_{118}	17.3	X	34.42510	163.58286	272.69731	5.28189	0.1391785	0.26423870	2.4051293	20	—	—
400565 2008 WG_{128}	16.6	X	126.30563	250.68669	113.87503	1.99731	0.1419538	0.19138546	2.9821542	20	1 22.2	20.8
400566 2008 WX_{130}	17.6	X	215.76754	57.49970	222.04326	4.12140	0.1500039	0.27748259	2.3279781	20	—	—
400567 2008 XR_{14}	17.9	X	295.09625	19.60252	276.74725	2.65627	0.1250585	0.30023426	2.2088313	20	4 10.7	20.6
400568 2008 XL_{43}	17.3	X	29.55111	1.29747	57.88138	4.58487	0.1461971	0.25876061	2.4389559	20	—	—
400569 2008 XN_{50}	17.2	X	136.36060	60.46068	334.06543	6.12400	0.1291031	0.27231427	2.3573412	20	2 27.6	20.4
400570 2008 XP_{53}	17.4	X	196.96654	114.09605	109.64908	12.52940	0.1388486	0.24315883	2.5421979	20	12 30.4	21.0
400571 2008 XO_{55}	17.4	X	10.01857	331.59458	89.49441	3.15086	0.2086705	0.25576800	2.4579436	20	—	—
400572 2008 YH_{13}	17.3	X	254.80206	38.67238	110.39554	7.29992	0.1171702	0.24075997	2.5590564	20	12 10.6	20.4
400573 2008 YJ_{14}	16.6	X	19.72152	263.29614	269.08650	6.39961	0.0499487	0.27776791	2.3263837	20	3 5.2	19.3
400574 2008 YE_{16}	17.6	X	150.34926	290.76634	109.46255	7.73149	0.1253017	0.28191434	2.3035162	20	3 24.9	20.9
400575 2008 YE_{19}	18.1	X	117.08605	268.79634	96.37559	2.89793	0.1514794	0.26419158	2.4054153	20	1 1.0	21.1
400576 2008 YK_{37}	18.2	X	137.08194	255.68116	116.56614	2.89273	0.2186609	0.27329327	2.3517082	20	2 10.8	21.7
400577 2008 YG_{40}	18.0	X	115.17561	248.72267	118.99805	5.61450	0.1182714	0.26510290	2.3998996	20	—	—
400578 2008 YP_{41}	17.3	X	146.83621	273.17126	103.28225	7.82947	0.1351032	0.28196347	2.3032486	20	2 18.1	20.5
400579 2008 YG_{55}	17.4	X	119.94099	144.45812	308.10866	6.11188	0.0654149	0.28318942	2.2965965	20	4 13.3	20.4
400580 2008 YO_{76}	17.1	X	28.12460	287.10145	140.12450	6.39430	0.0469732	0.25658312	2.4527352	20	—	—
400581 2008 YS_{79}	18.1	X	154.36212	244.42832	155.91520	3.56420	0.1601524	0.28096689	2.3086918	20	3 29.3	21.5
400582 2008 YA_{91}	17.3	X	92.86566	295.66203	108.04881	9.58110	0.0534389	0.26783687	2.3835402	20	1 2.9	19.9
400583 2008 YX_{102}	17.7	X	76.07670	246.65212	136.06183	2.11388	0.1923036	0.26087722	2.4257458	20	—	—
400584 2008 YL_{105}	17.6	X	227.24510	123.42531	126.47401	2.73365	0.1296434	0.25608936	2.4558869	20	—	—
400585 2008 YQ_{119}	18.0	X	88.61751	14.28839	73.93354	3.09860	0.1455864	0.27760940	2.3272691	20	3 12.9	20.5
400586 2008 YJ_{123}	18.0	X	267.04458	33.75788	139.35577	4.90506	0.0489910	0.25094231	2.4893548	20	—	—
400587 2008 YP_{137}	17.1	X	273.88477	133.19299	116.51194	6.68415	0.0761716	0.27089437	2.3655714	20	1 22.3	20.0
400588 2008 YG_{138}	16.7	X	219.53421	328.38823	287.34345	11.92912	0.2730508	0.25511168	2.4621574	20	—	—
400589 2008 YA_{153}	16.5	X	215.37340	292.45287	313.25291	13.70104	0.0902669	0.25288940	2.4765607	20	—	—
400590 2008 YD_{155}	16.8	X	214.59544	75.04591	58.92661	15.47094	0.2615892	0.22679753	2.6630368	20	9 22.5	21.5
400591 2009 AZ_{3}	14.7	X	205.08188	318.67426	83.74324	9.61560	0.2506451	0.12566611	3.9475164	20	5 19.2	21.3
400592 2009 AF_{13}	18.3	X	242.69544	222.37121	137.45692	4.72861	0.1896826	0.29661524	2.2267617	20	4 29.8	21.6
400593 2009 AT_{21}	17.3	X	275.97792	125.69202	119.09858	7.33800	0.0986840	0.26987902	2.3715009	20	1 15.8	20.5
400594 2009 AQ_{32}	17.1	X	49.54162	345.52078	124.98125	7.33689	0.0444184	0.26814537	2.3817117	20	1 29.6	19.8
400595 2009 AJ_{34}	17.2	X	76.34842	311.48249	103.37721	7.82385	0.1465356	0.26904718	2.3763865	20	1 4.3	19.3
400596 2009 BC_{2}	15.9	X	214.45419	280.60282	277.48757	26.72753	0.3676365	0.23322069	2.6139143	20	11 20.1	20.7
400597 2009 BJ_{13}	16.7	X	344.91953	0.28132	139.99594	10.20725	0.1572936	0.25867828	2.4394733	20	—	—
400598 2009 BY_{47}	17.9	X	109.12056	105.82843	313.26815	4.79576	0.0378550	0.27115085	2.3640795	20	2 12.3	20.6
400599 2009 BF_{56}	17.1	X	219.73962	74.68333	145.17872	10.10489	0.1946611	0.24089535	2.5580975	20	—	—
400600 2009 BT_{62}	17.2	X	252.15150	63.87524	89.27692	7.92919	0.1454736	0.24232738	2.5480096	20	12 8.0	20.1
400601 2009 BC_{71}	16.9	X	271.02010	239.87790	318.30413	10.43174	0.1312753	0.25275282	2.4774527	20	—	—
400602 2009 BL_{78}	17.4	X	186.87814	116.05065	267.10859	4.86841	0.1375386	0.28350382	2.2948983	20	4 3.7	20.9
400603 2009 BZ_{99}	16.2	X	118.45976	248.78021	357.86527	15.33755	0.2427817	0.22021108	2.7158760	20	11 7.6	21.1
400604 2009 BJ_{120}	17.0	X	173.40053	120.65711	126.46088	13.19645	0.2174642	0.23927607	2.5696258	20	12 28.7	21.3
400605 2009 BN_{121}	17.4	X	291.99251	253.47680	317.75513	5.79065	0.0693758	0.25946105	2.4345644	20	—	—
400606 2009 BR_{146}	17.6	X	44.89211	267.00664	189.34861	3.58067	0.1697508	0.26185606	2.4196969	20	1 6.9	19.6
400607 2009 BL_{148}	17.2	X	38.35940	168.32672	308.36689	6.48714	0.0824729	0.26374530	2.4081280	20	1 22.8	19.5
400608 2009 BL_{150}	16.5	X	100.39464	51.41699	172.41211	4.10691	0.0428242	0.21405240	2.7677232	20	9 13.3	20.3
400609 2009 BH_{171}	16.5	X	128.73477	298.98567	328.04154	13.01617	0.1673647	0.23053487	2.6341771	20	12 14.7	21.1
400610 2009 BL_{171}	17.1	X	128.46247	207.26641	10.89409	2.68404	0.1224449	0.21963157	2.7206512	20	10 13.9	21.3
400611 2009 BP_{184}	16.0	X	117.50575	314.72819	265.03864	9.75443	0.1282564	0.22063301	2.7124124	20	10 1.1	20.4
400612 2009 BS_{185}	16.4	X	86.08553	276.88659	343.47666	14.85002	0.1358253	0.21426218	2.7659163	20	10 17.2	20.8
400613 2009 CK_{1}	15.4	X	313.95512	190.14292	116.67548	25.67758	0.2172148	0.18128779	3.0918875	20	5 26.1	19.6
400614 2009 CJ_{3}	17.2	X	142.69557	153.29796	109.38778	2.22659	0.1294070	0.23621256	2.5917955	20	12 23.2	21.3
400615 2009 CM_{8}	17.5	X	283.08540	294.42211	271.70830	3.76158	0.0566532	0.26086650	2.4258122	20	—	—
400616 2009 CE_{14}	17.1	X	242.54118	97.69199	99.67596	6.42795	0.1652857	0.24448015	2.5330299	20	—	—
400617 2009 CH_{20}	17.6	X	183.91590	36.81732	278.25000	3.64044	0.1147541	0.26218055	2.4176999	20	1 8.9	21.2
400618 2009 CA_{45}	17.2	X	224.62511	51.62536	113.05131	13.00748	0.1373348	0.23337463	2.6127646	20	11 19.8	21.0
400619 2009 CE_{57}	17.0	X	212.37405	49.93202	105.43629	5.05310	0.1735028	0.22845583	2.6501343	20	10 18.9	21.0
400620 2009 CZ_{60}	17.0	X	100.71408	304.46286	107.65829	5.96274	0.0934859	0.26249466	2.4157709	20	2 2.4	19.8
400621 2009 DK_{18}	17.0	X	150.42353	109.05687	158.82398	13.16569	0.2499626	0.22971953	2.6404064	20	12 31.5	21.8
400622 2009 DD_{32}	16.8	X	11.23989	253.18647	122.50040	4.06392	0.1151364	0.22679892	2.6630260	20	12 15.9	20.1
400623 2009 DG_{43}	16.6	X	329.82373	346.92824	90.96660	6.16041	0.1626718	0.23863107	2.5742540	20	—	—
400624 2009 DL_{59}	17.0	X	167.23372	221.09056	41.63914	3.30151	0.1488800	0.23490071	2.6014361	20	—	—
400625 2009 DG_{64}	17.1	X	181.61135	265.51457	49.93299	6.37483	0.0785788	0.25264108	2.4781832	20	1 6.7	20.7
400626 2009 DX_{74}	17.7	X	268.82153	6.31219	166.11383	4.25521	0.1464702	0.24467631	2.5316759	20	—	—
400627 2009 DX_{84}	17.3	X	248.69432	73.35871	128.56308	6.37105	0.1817877	0.24076903	2.5589923	20	—	—
400628 2009 DM_{95}	17.0	X	266.82723	345.60286	226.68415	2.49173	0.1349060	0.25308848	2.4752617	20	—	—
400629 2009 DO_{106}	16.9	X	142.21232	216.41278	352.04858	13.21965	0.1487055	0.21898250	2.7260247	20	10 11.9	21.4
400630 2009 DO_{118}	16.6	X	122.00799	264.84445	341.17552	9.88675	0.1291815	0.22111731	2.7084504	20	11 7.6	21.0
400631 2009 DR_{125}	17.6	X	134.29746	26.95964	195.81313	2.07305	0.1212973	0.21711833	2.7416060	20	10 25.4	21.9
400632 2009 DZ_{129}	16.9	X	185.72356	12.68957	182.23371	14.27184	0.0894162	0.22354299	2.6888218	20	11 16.0	21.1
400633 2009 DD_{131}	17.0	X	241.44445	57.68048	164.58244	6.59010	0.1265848	0.24715081	2.5147493	20	—	—
400634 2009 DM_{132}	16.7	X	343.51144	51.39773	78.57808	7.34479	0.1007935	0.25347139	2.4727683	20	—	—
400635 2009 DT_{136}	16.9	X	214.64824	72.99663	117.20625	12.43972	0.1929332	0.23127837	2.6285286	20	12 1.6	20.9
400636 2009 ES_{2}	16.7	X	239.69283	276.61956	269.38036	12.43653	0.1129329	0.23246320	2.6195895	20	—	—
400637 2009 EF_{12}	16.6	X	129.65190	45.31103	147.61069	9.34341	0.1578862	0.20995140	2.8036483	20	9 16.6	21.1
400638 2009 EL_{12}	16.9	X	183.17642	147.57562	110.67067	9.88293	0.1321166	0.23833609	2.5763775	20	—	—
400639 2009 EY_{17}	17.0	X	174.45293	60.60304	163.58049	15.08352	0.0433435	0.23130112	2.6283562	20	12 14.2	21.0
400640 2009 EJ_{20}	16.8	X	185.93135	349.51331	159.04685	11.88900	0.1236922	0.21591134	2.7518141	20	9 15.1	21.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
400641 2009 FC_{23}	16.8	X	182.44713	120.69034	163.52587	15.32188	0.1992941	0.23966950	2.5668128	20	—	—
400642 2009 FF_{23}	16.4	X	217.15550	215.77782	12.83542	10.95993	0.0143618	0.23753692	2.5821529	20	—	—
400643 2009 FG_{27}	16.8	X	229.03735	144.68219	38.88789	13.54761	0.1090759	0.23050266	2.6344225	20	12 16.7	20.6
400644 2009 FA_{50}	16.9	X	246.29386	347.27320	130.80480	8.70862	0.2180536	0.22480282	2.6787667	20	10 3.9	20.7
400645 2009 FC_{54}	16.9	X	99.48871	229.42505	80.20617	6.13005	0.1568815	0.22512807	2.6761859	20	—	—
400646 2009 FE_{63}	17.5	X	212.00832	133.38001	91.26870	3.23706	0.0969681	0.23350694	2.6117776	20	—	—
400647 2009 FC_{68}	17.2	X	119.09192	346.65432	180.96136	1.75046	0.0993721	0.20053595	2.8907324	20	7 29.1	21.6
400648 2009 FM_{68}	17.3	X	200.05210	116.27558	146.73645	5.20100	0.0657825	0.24357450	2.5393048	20	—	—
400649 2009 FV_{72}	16.6	X	103.14454	121.40552	183.99553	13.90007	0.1197318	0.22407048	2.6846002	20	—	—
400650 2009 HW_{16}	17.3	X	215.94010	322.56846	187.62244	13.10062	0.1970938	0.22250795	2.6971537	20	10 11.2	21.4
400651 2009 HT_{18}	16.8	X	106.05547	240.72522	95.26594	7.50524	0.0958650	0.22788553	2.6545539	20	—	—
400652 2009 HZ_{24}	16.6	X	144.04862	201.15001	47.91107	10.28795	0.1512279	0.21747040	2.7386463	20	12 3.6	21.1
400653 2009 HU_{25}	16.9	X	246.07505	273.51050	206.08014	8.04325	0.1041108	0.21895614	2.7262434	20	10 17.4	20.7
400654 2009 HZ_{29}	17.0	X	347.29880	262.92482	122.74857	7.21190	0.0504624	0.22096436	2.7097001	20	11 17.2	20.5
400655 2009 HM_{38}	16.5	X	220.03796	307.65624	190.50936	18.00299	0.1701675	0.21592943	2.7516603	20	10 1.4	20.6
400656 2009 HG_{40}	16.8	X	81.24449	218.29794	91.72853	6.22040	0.1431448	0.22186168	2.7023889	20	12 19.9	20.8
400657 2009 HL_{49}	16.7	X	56.24276	269.29586	111.07099	13.25555	0.1668487	0.22714685	2.6603058	20	—	—
400658 2009 HC_{55}	17.3	X	103.89354	141.49042	96.38297	2.97336	0.1877805	0.21043866	2.7993188	20	10 19.1	21.7
400659 2009 HO_{73}	16.5	X	197.00645	298.43116	280.36810	11.04569	0.2641085	0.22925694	2.6439570	20	12 9.6	20.9
400660 2009 HP_{83}	16.8	X	213.44058	50.90491	164.96701	5.47821	0.0542461	0.22851326	2.6496902	20	—	—
400661 2009 HQ_{88}	16.9	X	135.53450	58.75797	224.44874	7.55815	0.2250255	0.22175019	2.7032947	20	—	—
400662 2009 HN_{94}	17.2	X	111.97025	60.33550	237.23422	5.45669	0.0886366	0.21827584	2.7319050	20	12 30.7	21.3
400663 2009 HB_{96}	17.2	X	164.55088	68.16374	155.08712	8.95056	0.1403008	0.21731915	2.7399169	20	11 24.9	21.7
400664 2009 HV_{99}	16.9	X	91.06175	58.87329	217.67373	18.36919	0.0953339	0.21213452	2.7843799	20	11 13.9	21.0
400665 2009 HW_{100}	17.2	X	14.75410	202.50138	216.58921	5.40988	0.0356551	0.22877549	2.6476651	20	—	—
400666 2009 HH_{104}	16.4	X	31.70498	128.53558	131.57938	10.76079	0.2142352	0.19115080	2.9845943	20	8 23.5	19.8
400667 2009 JS_{2}	16.5	X	203.08786	152.98376	76.11813	14.26822	0.1344617	0.23062097	2.6335214	20	—	—
400668 2009 KG_{20}	18.1	X	81.54642	68.56016	241.89603	19.45610	0.0621706	0.39368944	1.8437422	20	—	—
400669 2009 LO_{1}	16.8	X	145.38817	41.04008	196.83506	14.12564	0.2623066	0.21380703	2.7698403	20	11 22.9	21.9
400670 2009 MD_{8}	17.3	X	253.20812	186.26072	261.07005	18.00803	0.0842832	0.36943374	1.9235863	20	10 6.9	19.6
400671 2009 MR_{9}	16.6	X	113.15865	152.64267	108.37735	8.91556	0.2160281	0.20447992	2.8534413	20	11 24.4	21.5
400672 2009 OO_{3}	15.8	X	89.33809	162.23848	149.91363	18.23214	0.1684048	0.20441748	2.8540223	20	12 29.3	20.6
400673 Vitapolunina	16.6	X	31.53216	96.49539	226.41982	6.25611	0.2629079	0.18724802	3.0259231	20	11 19.2	20.4
400674 2009 OA_{15}	15.6	X	342.93855	204.28034	150.66385	20.80249	0.3155136	0.18074074	3.0981232	20	10 2.2	18.2
400675 2009 OS_{19}	15.8	X	336.14139	213.53170	121.73334	19.16392	0.2675237	0.17729828	3.1380970	20	8 7.3	18.6
400676 2009 OA_{25}	15.8	X	319.20633	224.60719	125.91637	15.70972	0.2866746	0.17482261	3.1676534	20	7 15.3	19.1
400677 2009 PF	16.0	X	17.43236	198.37456	142.59704	21.25839	0.3292311	0.18482397	3.0523232	20	12 5.9	20.1
400678 2009 PG_{5}	15.6	X	338.65737	186.57896	169.88352	10.78440	0.1283279	0.18081242	3.0973043	20	9 17.4	19.3
400679 2009 PZ_{7}	15.6	X	204.57094	177.40557	314.06426	15.30633	0.0458344	0.18379115	3.0637476	20	9 8.7	20.2
400680 2009 PL_{9}	17.6	X	191.96071	64.10662	162.05717	21.05953	0.0332044	0.38543429	1.8699751	20	—	—
400681 2009 PE_{12}	15.8	X	322.47836	33.21951	338.18922	9.88632	0.1548417	0.17934996	3.1141189	20	9 6.0	19.4
400682 2009 PX_{15}	16.1	X	0.27221	333.33099	347.96801	8.24614	0.0764950	0.17504350	3.1649879	20	9 4.0	20.1
400683 2009 PK_{20}	16.4	X	9.97641	326.84935	352.20557	4.71621	0.1357795	0.17971199	3.1099353	20	9 21.1	20.0
400684 2009 QN_{4}	16.5	X	0.77727	252.17885	147.27002	15.58514	0.4956055	0.18882739	3.0090268	20	—	—
400685 2009 QN_{15}	16.2	X	26.07683	283.18958	357.23919	10.25947	0.1625216	0.17499137	3.1656164	20	9 1.4	20.0
400686 2009 QR_{30}	15.7	X	298.93112	86.12439	304.57271	14.74443	0.2343574	0.17257231	3.1951308	20	8 8.2	19.7
400687 2009 QB_{32}	15.5	X	336.87443	218.69317	149.96898	11.70118	0.0893096	0.18119795	3.0929093	20	10 3.8	19.4
400688 2009 QS_{34}	15.3	X	26.48517	17.42660	305.87603	15.61845	0.2373878	0.18450108	3.0558833	20	11 1.4	19.5
400689 2009 QD_{37}	15.5	X	8.63758	55.58693	280.54563	25.87468	0.1628302	0.17907343	3.1173240	20	9 29.8	19.9
400690 2009 QM_{43}	16.9	X	3.54411	313.63279	33.56021	2.05717	0.2818028	0.18342790	3.0677911	20	11 5.9	20.0
400691 2009 QV_{48}	16.0	X	350.36688	191.16659	167.59500	16.31957	0.1249644	0.18316491	3.0707269	20	10 14.0	19.7
400692 2009 QW_{55}	16.8	X	32.65442	79.90425	226.73166	0.91921	0.1575761	0.18248918	3.0783026	20	10 13.9	20.7
400693 2009 QC_{58}	16.1	X	25.54363	327.20773	327.52693	8.12749	0.0568444	0.17537068	3.1610502	20	9 2.9	20.3
400694 2009 QX_{58}	16.4	X	344.38840	148.64513	182.61795	17.78857	0.2338067	0.17741737	3.1366926	20	8 19.6	19.6
400695 2009 QO_{59}	16.1	X	3.79425	73.98418	226.77575	15.18980	0.2346530	0.17755244	3.1351016	20	8 17.6	19.7
400696 2009 QH_{63}	15.9	X	345.44183	92.98144	293.60827	14.97513	0.2594744	0.18312906	3.0711277	20	11 13.9	19.1
400697 2009 RV_{4}	15.9	X	330.12459	34.88767	330.59256	10.67419	0.0636044	0.18084970	3.0968787	20	9 13.8	20.0
400698 2009 RG_{7}	15.9	X	331.18334	45.50384	325.47883	7.61146	0.2829659	0.17699232	3.1417125	20	9 13.0	18.6
400699 2009 RB_{8}	16.2	X	256.16688	216.18585	217.32193	3.97470	0.0209834	0.17378581	3.1802396	20	9 5.3	20.8
400700 2009 RJ_{10}	16.9	X	337.20328	42.92111	325.60864	0.13464	0.1790210	0.17848922	3.1241225	20	9 29.9	20.1
400701 2009 RN_{14}	16.1	X	278.25101	220.20323	191.16774	14.82306	0.1486868	0.17059341	3.2197925	20	8 15.9	20.7
400702 2009 RY_{14}	16.0	X	273.67694	239.92496	190.95629	12.52995	0.1464289	0.17393359	3.1784380	20	9 5.7	20.5
400703 2009 RM_{17}	16.1	X	270.95829	244.69678	165.84572	4.58620	0.1187640	0.16882387	3.2422524	20	8 12.2	20.5
400704 2009 RO_{32}	15.4	X	276.83650	186.30405	246.03518	11.38523	0.2337031	0.17629754	3.1499613	20	8 26.4	20.0
400705 2009 RR_{32}	15.7	X	322.97384	81.97216	310.84430	15.24608	0.1197101	0.18129941	3.0917553	20	9 29.9	19.7
400706 2009 RB_{34}	16.4	X	329.58775	338.43219	21.21527	4.24570	0.1221140	0.17181777	3.2044783	20	9 5.8	20.3
400707 2009 RC_{39}	15.7	X	231.11169	243.17592	244.28922	8.51314	0.0564775	0.18020373	3.1042750	20	10 6.3	20.3
400708 2009 RY_{52}	16.2	X	6.00989	217.49058	93.95925	2.14688	0.1680353	0.17225880	3.1990064	20	9 7.1	19.9
400709 2009 RE_{64}	15.1	X	47.72956	336.58002	304.74416	11.51240	0.1173947	0.18139950	3.0906180	20	9 20.6	19.5
400710 2009 RE_{71}	16.4	X	276.67531	304.13337	117.78530	2.38345	0.1648398	0.17358579	3.1826821	20	8 29.4	20.5
400711 2009 RV_{72}	15.6	X	317.40483	119.13255	237.11917	25.23805	0.2876910	0.17304729	3.1892814	20	7 11.2	19.5
400712 2009 SU_{1}	16.3	X	359.49152	148.06099	189.00678	15.09312	0.1082161	0.17945786	3.1128706	20	9 24.9	20.2
400713 2009 SX_{2}	16.1	X	44.27973	72.88068	202.96210	11.13989	0.0964402	0.17628568	3.1501025	20	9 8.4	20.4
400714 2009 SG_{10}	15.9	X	224.46266	256.98718	201.03901	8.88973	0.0479097	0.17484572	3.1673742	20	8 23.5	20.6
400715 2009 SM_{15}	16.5	X	86.65765	27.93520	327.76011	5.44694	0.0992457	0.20575946	2.8415993	20	—	—
400716 2009 SE_{16}	15.2	X	313.50141	260.29336	149.54599	24.89701	0.0878653	0.17525234	3.1624731	20	10 23.3	19.7
400717 2009 SN_{53}	16.2	X	26.69663	35.11219	269.61480	3.47121	0.1360572	0.17840450	3.1251114	20	9 27.1	20.3
400718 2009 SZ_{62}	16.1	X	228.95818	114.64172	347.47586	8.49603	0.0452770	0.17797253	3.1301662	20	9 6.7	20.6
400719 2009 SD_{63}	16.7	X	59.78312	120.43946	181.57294	2.78031	0.1597318	0.19004464	2.9961644	20	11 14.2	21.0
400720 2009 SV_{80}	16.3	X	284.99624	74.78374	347.25535	9.02833	0.0874665	0.18091928	3.0960846	20	9 20.6	20.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
400721 2009 SJ_{89}	16.2	X	318.28009	144.15428	247.25612	4.80186	0.1279673	0.17926103	3.1151487	20	9 25.9	20.1
400722 2009 SY_{96}	15.5	X	329.41065	82.19456	272.46227	8.04758	0.0881390	0.17486321	3.1671630	20	8 26.4	19.7
400723 2009 SF_{106}	15.7	X	314.11644	62.03796	328.04773	9.55732	0.0584290	0.18035211	3.1025721	20	9 21.8	19.8
400724 2009 SU_{155}	16.4	X	346.79309	165.32813	197.16441	0.72197	0.1901100	0.17928801	3.1148363	20	10 11.7	19.6
400725 2009 SZ_{164}	16.0	X	359.49317	314.49455	21.83219	12.37118	0.2218763	0.17554943	3.1589040	20	10 4.9	19.3
400726 2009 SD_{172}	15.3	X	2.45243	223.88364	90.38944	28.18377	0.2202332	0.17249300	3.1961102	20	9 24.1	19.4
400727 2009 SP_{179}	15.9	X	320.73551	218.51048	158.69301	15.83250	0.0884324	0.17856435	3.1232461	20	9 17.7	19.9
400728 2009 SZ_{205}	16.7	X	327.01757	332.16636	38.16690	1.07055	0.1840180	0.17339816	3.1849776	20	9 11.1	20.0
400729 2009 SJ_{229}	15.8	X	310.37573	37.87981	351.29936	14.16818	0.2724060	0.17296872	3.1902472	20	8 26.5	19.3
400730 2009 SG_{268}	16.9	X	7.29697	23.89471	339.16672	1.40903	0.1203640	0.18517704	3.0484421	20	11 12.4	20.7
400731 2009 SO_{306}	16.0	X	291.61045	235.24909	182.23676	15.24352	0.0748585	0.18163634	3.0879307	20	9 27.2	20.1
400732 2009 SZ_{331}	16.0	X	11.63810	293.06524	14.99875	10.50487	0.1581016	0.17810576	3.1286051	20	9 14.7	19.7
400733 2009 SK_{344}	16.1	X	328.63226	105.20162	300.02232	14.89838	0.2118151	0.18115671	3.0933787	20	10 26.1	19.7
400734 2009 SL_{344}	16.4	X	346.30591	87.02760	311.46334	13.89126	0.2798632	0.18385710	3.0630150	20	12 8.7	19.5
400735 2009 SD_{347}	16.6	X	355.12310	252.17384	112.31339	5.98483	0.2328473	0.18143047	3.0902663	20	11 7.5	19.8
400736 2009 SX_{358}	16.7	X	10.09726	104.36498	237.19548	7.99461	0.2949350	0.18248725	3.0783243	20	11 12.9	20.0
400737 2009 TH_{45}	16.1	X	346.42932	44.57403	307.11224	10.29440	0.1641510	0.17839681	3.1252012	20	9 19.3	19.7
400738 2009 TP_{45}	16.4	X	310.04648	221.47352	175.75259	15.36551	0.2234266	0.17417745	3.1754706	20	9 9.2	19.8
400739 2009 UK_{3}	16.3	X	341.30528	142.69322	230.98783	15.93944	0.1795883	0.18024868	3.1037589	20	10 12.8	19.8
400740 2009 UY_{37}	15.5	X	330.71914	316.86714	59.12671	10.71167	0.2041962	0.17294460	3.1905438	20	9 30.9	19.0
400741 2009 UP_{61}	16.1	X	298.65929	247.85127	119.34627	3.75110	0.0337173	0.16701144	3.2656670	20	8 6.7	20.6
400742 2009 UX_{90}	15.5	X	348.48457	76.13837	252.16023	9.81561	0.1216641	0.17259144	3.1948947	20	8 20.8	19.5
400743 2009 UZ_{121}	16.0	X	22.57813	25.11621	324.77070	8.34997	0.1381934	0.18375928	3.0641018	20	11 18.2	20.1
400744 2009 UL_{128}	15.8	X	290.66648	133.66659	282.94563	13.14504	0.2648276	0.17246118	3.1965032	20	8 20.5	20.0
400745 2009 UV_{130}	16.5	X	58.70011	64.01625	298.58248	7.03879	0.2085774	0.19595190	2.9356418	20	—	—
400746 2009 UG_{139}	15.6	X	345.91178	98.82009	258.71442	10.87329	0.1424667	0.17409713	3.1764472	20	9 24.5	19.6
400747 2009 UK_{151}	15.3	X	309.03507	115.75358	272.12705	15.59410	0.0785384	0.17170410	3.2058924	20	9 3.2	19.9
400748 2009 UP_{153}	16.9	X	8.14317	88.55986	234.24490	8.60143	0.2273233	0.17511472	3.1641297	20	9 29.6	20.4
400749 2009 VY_{26}	16.7	X	338.20773	102.84133	260.60215	5.68505	0.2079579	0.17273885	3.1930768	20	9 20.0	20.0
400750 2009 VR_{63}	15.8	X	272.93059	146.96253	240.09294	10.33056	0.1222586	0.15472530	3.4363323	20	7 13.1	20.7
400751 2009 VS_{106}	15.8	X	307.84946	65.77629	351.45179	9.94657	0.0718355	0.17524710	3.1625360	20	10 15.6	20.1
400752 2009 WE_{218}	16.6	X	33.42079	116.24282	174.59977	9.67648	0.0785768	0.17511146	3.1641690	20	9 12.4	20.8
400753 2009 WR_{259}	15.5	X	320.15703	283.80227	109.67125	27.09325	0.2389149	0.17238828	3.1974043	20	10 7.9	19.4
400754 2009 WN_{263}	17.5	X	306.73513	15.36258	123.60403	5.49715	0.1640065	0.27625650	2.3348611	20	—	—
400755 2009 YF_{16}	17.5	X	228.36053	325.00314	37.28383	3.90925	0.0919815	0.31834394	2.1242469	20	4 22.9	20.0
400756 2010 AR_{121}	15.3	X	25.00811	13.13909	278.63297	13.59726	0.0405481	0.16807764	3.2518419	20	8 21.7	19.9
400757 2010 BK_{96}	16.8	X	356.25239	118.04470	232.27045	10.07277	0.2290585	0.17660328	3.1463247	20	10 14.6	20.1
400758 2010 CW_{4}	17.8	X	298.35626	144.20498	36.02790	3.15748	0.1568960	0.27577303	2.3375892	20	—	—
400759 2010 CG_{43}	17.6	X	337.78859	19.89084	141.21300	5.36445	0.1619828	0.28313996	2.2968640	20	—	—
400760 2010 CD_{70}	17.6	X	260.39786	93.83198	122.80967	7.19463	0.1034120	0.28088366	2.3091478	20	—	—
400761 2010 CV_{76}	18.1	X	312.23229	255.77854	247.69162	1.65266	0.1656130	0.27093673	2.3653248	20	—	—
400762 2010 CH_{89}	17.3	X	277.41318	299.65878	289.00579	4.41251	0.1083368	0.28435779	2.2903014	20	—	—
400763 2010 CH_{104}	17.7	X	301.38647	103.41742	144.28094	3.81938	0.1252663	0.28962010	2.2624739	20	2 13.2	20.3
400764 2010 CH_{114}	16.8	X	144.57706	182.23714	106.90214	3.50297	0.1807539	0.26361552	2.4089182	20	—	—
400765 2010 CS_{115}	18.2	X	217.41564	175.59724	106.51889	3.21537	0.0636961	0.28333291	2.2958211	20	—	—
400766 2010 CO_{117}	16.4	X	98.81831	66.93904	294.36139	14.05270	0.1123497	0.18806253	3.0171799	20	—	—
400767 2010 CC_{148}	17.8	X	17.98775	9.82117	163.88818	4.35151	0.1639250	0.29201994	2.2500614	20	3 2.6	19.0
400768 2010 CV_{152}	18.2	X	261.27176	167.12799	57.22936	1.95267	0.1393092	0.27396923	2.3478383	20	—	—
400769 2010 DK_{3}	18.4	X	251.34826	71.13156	166.28368	2.28273	0.1601164	0.27504391	2.3417185	20	—	—
400770 2010 DZ_{8}	17.9	X	211.44221	13.19622	188.16403	1.87494	0.1523077	0.25516968	2.4617843	20	12 19.5	21.2
400771 2010 DC_{16}	16.4	X	181.17517	103.85197	121.59407	14.38129	0.1407031	0.24304017	2.5430252	20	12 17.2	20.4
400772 2010 DF_{49}	17.5	X	298.16074	291.55581	154.22701	23.93557	0.1115766	0.35186601	1.9870914	20	—	—
400773 2010 DH_{52}	16.8	X	160.03335	107.00662	134.63544	11.89677	0.1538104	0.23974532	2.5662716	20	12 15.1	21.1
400774 2010 EG_{14}	16.6	X	209.75025	92.36691	119.78994	15.97373	0.2050996	0.24656034	2.5187626	20	12 23.6	20.4
400775 2010 EK_{21}	17.8	X	314.60477	49.03703	105.00902	3.21710	0.1479794	0.27356007	2.3501788	20	—	—
400776 2010 EQ_{31}	17.9	X	236.27873	139.56417	150.34991	1.75341	0.2176510	0.28252941	2.3001718	20	1 23.8	21.6
400777 2010 EF_{32}	17.9	X	303.94069	141.79718	23.30730	2.55266	0.0840865	0.27276117	2.3547656	20	—	—
400778 2010 EO_{42}	17.6	X	332.05931	189.88854	15.31028	4.33663	0.1625105	0.28956174	2.2627779	20	1 23.9	20.0
400779 2010 EQ_{70}	17.9	X	257.49461	283.96168	349.15526	3.66464	0.1587642	0.28011495	2.3133705	20	1 26.3	21.3
400780 2010 ER_{73}	17.1	X	194.62667	277.77583	14.76502	6.69028	0.1390200	0.26844407	2.3799445	20	—	—
400781 2010 EF_{85}	17.8	X	336.29103	195.76348	4.63054	4.19761	0.1106276	0.28725555	2.2748727	20	2 1.6	20.1
400782 2010 ES_{99}	17.1	X	240.79437	133.07757	98.92161	3.34496	0.1802378	0.26470206	2.4023218	20	—	—
400783 2010 EZ_{108}	17.2	X	259.56477	153.12950	64.05668	3.09629	0.1701462	0.26734830	2.3864432	20	—	—
400784 2010 EC_{125}	17.3	X	0.04871	23.87452	112.47169	7.71188	0.0757745	0.27990067	2.3145510	20	—	—
400785 2010 EY_{128}	17.6	X	245.74086	91.42978	199.72417	5.92913	0.1397787	0.28016182	2.3131125	20	2 4.9	21.1
400786 2010 ES_{133}	17.7	X	249.06379	340.26161	302.95817	3.26188	0.1179297	0.28018661	2.3129760	20	2 1.3	20.8
400787 2010 EA_{134}	17.6	X	238.87336	32.02605	196.03725	1.95821	0.1699546	0.26551978	2.3973869	20	—	—
400788 2010 EO_{134}	17.7	X	227.84911	95.70420	203.91376	2.30184	0.2386641	0.27580572	2.3374045	20	1 28.5	21.7
400789 2010 EK_{135}	17.6	X	299.12110	256.80635	346.31316	6.70332	0.0738820	0.28550809	2.2841455	20	2 13.8	20.3
400790 2010 EQ_{135}	18.0	X	251.56485	165.60640	110.34144	2.22588	0.1734921	0.27669548	2.3323909	20	1 22.9	21.4
400791 2010 ER_{136}	18.4	X	295.59488	171.93354	351.96292	2.11539	0.1460168	0.26884252	2.3775925	20	—	—
400792 2010 FS_{6}	17.8	X	315.96948	56.79557	177.63869	5.77073	0.1582193	0.29215311	2.2493776	20	2 7.7	20.5
400793 2010 FF_{16}	18.2	X	186.54145	37.11460	357.59479	5.52182	0.0714793	0.29922342	2.2138031	20	4 17.8	21.2
400794 2010 FZ_{24}	17.9	X	301.52536	142.62136	66.70880	4.00576	0.1608444	0.27804348	2.3248463	20	—	—
400795 2010 FN_{57}	17.7	X	281.04191	204.51321	17.13603	6.61214	0.1311771	0.27376979	2.3489784	20	—	—
400796 Douglass	16.4	X	93.84379	28.46484	287.70488	15.49951	0.2643477	0.22930771	2.6435667	20	—	—
400797 2010 FP_{87}	17.7	X	273.08569	98.33680	129.38561	3.02746	0.1543796	0.27217871	2.3581239	20	—	—
400798 2010 FQ_{92}	16.9	X	236.43498	85.40596	152.04204	10.99536	0.1991511	0.26810946	2.3819243	20	—	—
400799 2010 GW_{15}	16.7	X	215.79561	9.26976	300.02284	16.59255	0.2530378	0.26148917	2.4219597	20	1 31.2	21.1
400800 2010 GT_{28}	17.2	X	288.23127	162.15576	59.20067	3.97228	0.1634839	0.27564916	2.3382894	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
400801 2010 GJ_{66}	17.4	X	230.95425	186.79203	92.37811	6.73124	0.2163461	0.27145921	2.3622888	20	1 8.3	21.4
400802 2010 GM_{97}	17.8	X	289.86687	238.40662	26.48445	3.30545	0.0890292	0.28684391	2.2770486	20	2 28.8	20.6
400803 2010 GB_{98}	18.1	X	281.68076	38.73603	216.75523	1.78052	0.1178182	0.28001796	2.3139047	20	1 31.9	21.4
400804 2010 GD_{108}	18.0	X	311.31713	358.01211	202.25389	2.32976	0.1443141	0.27586483	2.3370706	20	—	—
400805 2010 GD_{110}	17.8	X	274.08987	17.94692	172.87595	4.92611	0.1341922	0.26524623	2.3990349	20	—	—
400806 2010 GC_{115}	17.8	X	252.58993	271.12735	17.25352	9.51599	0.1208537	0.28333976	2.2957841	20	2 15.3	21.2
400807 2010 GN_{115}	17.5	X	264.31840	156.94328	124.51533	7.00519	0.1441427	0.27998770	2.3140714	20	2 13.9	20.7
400808 2010 GB_{136}	17.0	X	243.20562	64.40129	185.98201	6.74982	0.1012150	0.26907538	2.3762205	20	—	—
400809 2010 GL_{143}	17.4	X	172.57395	268.01730	36.47349	5.64653	0.1523142	0.26197102	2.4189889	20	—	—
400810 2010 GV_{143}	17.5	X	235.09715	97.94972	180.56738	10.99252	0.2656494	0.26853966	2.3793797	20	1 8.6	21.9
400811 2010 GF_{153}	17.1	X	202.39830	201.40198	121.45554	14.75364	0.2660654	0.25891788	2.4379681	20	2 9.5	21.5
400812 2010 GH_{160}	16.7	X	304.15380	6.35986	240.22294	23.70995	0.1164129	0.28462242	2.2888815	20	2 5.9	20.3
400813 2010 GX_{161}	17.9	X	228.26236	135.32553	138.45817	5.28019	0.1784560	0.26634326	2.3924428	20	—	—
400814 2010 HP_{77}	17.9	X	266.93588	346.90874	190.95254	8.66904	0.2089306	0.26073505	2.4266275	20	—	—
400815 2010 HU_{79}	18.1	X	216.31699	138.37164	94.10588	1.93454	0.1549460	0.25660721	2.4525817	20	—	—
400816 2010 HQ_{101}	17.4	X	127.10135	262.01740	52.14442	2.09119	0.1284743	0.23589316	2.5941345	20	—	—
400817 2010 HO_{108}	18.0	X	232.77849	260.34989	7.27954	1.27981	0.1527835	0.26883570	2.3776327	20	—	—
400818 2010 JV_{29}	17.4	X	272.07020	17.09087	212.28841	9.23498	0.1467171	0.26948784	2.3737953	20	—	—
400819 2010 JQ_{33}	17.8	X	253.76844	150.73206	97.69049	6.21212	0.1852942	0.26973651	2.3723362	20	—	—
400820 2010 JS_{40}	16.6	X	207.49882	65.55177	76.89573	14.72965	0.0866016	0.23241126	2.6199798	20	10 12.7	20.6
400821 2010 JU_{40}	17.7	X	302.47030	141.12053	55.32314	2.05294	0.1287809	0.27138329	2.3627294	20	—	—
400822 2010 JD_{85}	17.8	X	223.05515	34.07570	240.94389	4.33838	0.2179697	0.26475956	2.4019739	20	—	—
400823 2010 JN_{85}	17.7	X	221.58909	191.04933	63.53374	5.85294	0.1683433	0.25999989	2.4311995	20	—	—
400824 2010 JM_{109}	16.4	X	181.84916	32.38781	230.35465	14.03506	0.1841493	0.23984469	2.5655628	20	—	—
400825 2010 JP_{110}	17.3	X	161.74247	169.26610	133.63658	10.84687	0.1780559	0.25437536	2.4669065	20	—	—
400826 2010 JU_{153}	17.4	X	219.01114	157.84759	127.70149	7.26235	0.2129601	0.26596289	2.3947234	20	1 6.8	21.4
400827 2010 JJ_{157}	17.3	X	219.44317	242.91873	75.02905	7.47698	0.1404345	0.27869356	2.3212296	20	2 18.1	20.9
400828 2010 JV_{167}	17.5	X	296.21741	24.08415	123.83358	8.33418	0.0498134	0.25327551	2.4740430	20	—	—
400829 2010 KB_{32}	17.5	X	150.96234	55.94242	283.07144	10.42528	0.2913284	0.24385321	2.5373696	20	1 22.1	21.7
400830 2010 KU_{36}	17.6	X	248.38077	15.08008	248.75282	2.95847	0.1850399	0.26883544	2.3776342	20	1 5.2	21.3
400831 2010 KT_{78}	16.0	X	345.04392	56.14035	276.88026	10.88715	0.0618599	0.19713160	2.9239182	20	8 24.1	19.9
400832 2010 KT_{79}	17.0	X	98.16707	73.51861	251.43544	10.29536	0.3169291	0.22641642	2.6660243	20	—	—
400833 2010 KR_{103}	16.6	X	103.66699	145.61384	170.57625	13.87799	0.2679591	0.22665016	2.6641911	20	—	—
400834 2010 KO_{117}	17.5	X	260.38613	31.31805	203.20655	4.71838	0.1836721	0.26627030	2.3928799	20	—	—
400835 2010 KY_{120}	16.3	X	149.17949	61.42879	257.80972	13.49278	0.1813401	0.23910565	2.5708466	20	—	—
400836 2010 LB_{38}	15.7	X	331.32652	111.24189	251.01840	9.54402	0.1218172	0.19805249	2.9148475	20	9 10.0	19.3
400837 2010 LP_{41}	16.3	X	108.26604	20.83345	284.74122	13.63201	0.1570266	0.22420925	2.6834924	20	—	—
400838 2010 LS_{51}	16.5	X	110.28199	50.06979	279.39490	12.01328	0.2831706	0.22964508	2.6409770	20	—	—
400839 2010 LE_{60}	16.5	X	40.16934	131.52175	201.77673	12.96225	0.2458459	0.21084622	2.7957103	20	12 14.9	20.7
400840 2010 LH_{67}	17.2	X	241.63752	200.35075	82.62075	6.98814	0.1211918	0.27095971	2.3651911	20	1 26.8	20.7
400841 2010 LN_{75}	16.8	X	119.51623	87.83074	264.97940	11.40685	0.3074116	0.23555114	2.5966450	20	1 13.1	20.6
400842 2010 LJ_{82}	17.2	X	83.83615	246.91640	128.46478	13.23378	0.2421225	0.22991936	2.6388762	20	—	—
400843 2010 LQ_{101}	16.5	X	93.36490	13.87426	321.18096	13.35618	0.2581622	0.22534324	2.6744821	20	—	—
400844 2010 LE_{107}	17.8	X	256.77652	137.57673	137.57119	4.76932	0.1847318	0.27277551	2.3546831	20	1 26.1	21.4
400845 2010 LU_{129}	16.3	X	113.82877	13.62162	300.47018	11.98387	0.2359196	0.22723234	2.6596386	20	—	—
400846 2010 MR_{2}	15.8	X	105.73300	75.24392	282.27406	28.32229	0.3086241	0.23141192	2.6275172	20	1 5.8	19.2
400847 2010 MH_{11}	16.7	X	90.76175	243.53074	129.89440	3.40450	0.3459650	0.22986291	2.6393083	20	1 13.1	19.6
400848 2010 MB_{20}	17.5	X	106.14915	86.77929	193.44794	8.42752	0.2180631	0.21826646	2.7319833	20	12 11.6	22.2
400849 2010 MS_{21}	17.1	X	144.01039	154.06022	172.35523	10.99256	0.2429132	0.23769236	2.5810272	20	—	—
400850 2010 ML_{32}	16.9	X	157.72217	224.09614	73.38862	4.87398	0.2474296	0.23620026	2.5918855	20	—	—
400851 2010 MQ_{32}	17.2	X	100.41486	135.19061	195.99398	5.42738	0.1525501	0.22535855	2.6743610	20	—	—
400852 2010 MK_{38}	16.3	X	87.72224	46.62751	316.47015	13.07497	0.1892957	0.22788193	2.6545819	20	—	—
400853 2010 MM_{102}	15.4	X	312.68854	259.37830	90.17622	23.33801	0.0927310	0.18588168	3.0407333	20	7 31.2	19.5
400854 2010 MA_{105}	16.7	X	73.44347	80.86969	291.62390	6.50955	0.1098097	0.22525157	2.6752077	20	—	—
400855 2010 MN_{113}	17.1	X	204.07553	176.48598	130.14032	3.29292	0.1968689	0.25771250	2.4455642	20	1 20.7	21.2
400856 2010 MQ_{115}	16.9	X	133.80520	188.51873	143.14658	9.59935	0.2025012	0.23388560	2.6089578	20	—	—
400857 2010 NJ_{36}	17.0	X	102.63750	99.34810	215.65909	6.25266	0.1843047	0.22102072	2.7092395	20	—	—
400858 2010 NV_{53}	17.0	X	75.41126	183.58620	137.73781	5.68419	0.0908728	0.21252161	2.7809979	20	12 20.5	21.0
400859 2010 ND_{56}	16.8	X	21.22996	161.54884	217.89746	3.72933	0.0807494	0.21114804	2.7930455	20	12 24.8	20.5
400860 2010 NQ_{57}	17.5	X	124.94696	119.72185	203.36434	4.44685	0.1837977	0.22858451	2.6491397	20	—	—
400861 2010 NA_{59}	17.1	X	27.58880	135.52067	240.07248	4.19337	0.0711998	0.21197892	2.7857422	20	12 27.1	20.7
400862 2010 NC_{66}	18.0	X	138.22070	36.62956	298.43056	6.25722	0.3167915	0.24140165	2.5545195	20	1 11.1	22.2
400863 2010 NY_{66}	16.9	X	155.59467	143.64812	105.69199	9.28174	0.1612756	0.23321605	2.6139489	20	12 17.9	21.0
400864 2010 NJ_{109}	16.6	X	316.28471	147.27479	210.48596	15.67812	0.0778382	0.18697298	3.0288898	20	8 11.1	20.8
400865 2010 OR_{12}	16.8	X	142.97894	89.58185	205.56543	10.84380	0.1841336	0.22640021	2.6661516	20	—	—
400866 2010 OD_{18}	15.9	X	283.29063	340.80073	14.85824	18.66060	0.1153558	0.17632039	3.1496892	20	6 19.3	20.6
400867 2010 ON_{27}	16.8	X	2.36307	191.50352	212.34547	3.75848	0.0717251	0.21014089	2.8019626	20	12 28.3	20.3
400868 2010 OT_{30}	15.7	X	346.05574	240.32910	83.80464	16.37273	0.1183935	0.18669667	3.0318776	20	8 24.4	19.6
400869 2010 OM_{36}	16.6	X	95.11315	75.05134	326.62611	11.33394	0.2148547	0.23390248	2.6088323	20	2 4.8	19.8
400870 2010 OP_{40}	17.1	X	137.70816	146.29421	189.59508	12.98584	0.2826570	0.23501781	2.6005719	20	1 7.3	21.5
400871 2010 OC_{44}	15.9	X	323.10124	348.36013	13.66727	12.49716	0.2377085	0.18904600	3.0067066	20	8 25.6	19.0
400872 2010 OG_{59}	17.1	X	149.29405	4.34291	295.15801	5.37817	0.3399807	0.23264453	2.6182282	20	—	—
400873 2010 OL_{82}	16.2	X	274.12766	65.30346	314.42741	13.82464	0.2928688	0.17752220	3.1354576	20	6 14.8	21.0
400874 2010 OD_{89}	16.0	X	293.34533	354.94165	3.71489	11.95821	0.1796862	0.17877049	3.1208447	20	6 29.9	20.4
400875 2010 OF_{93}	16.4	X	1.04710	33.92352	293.60269	7.95150	0.2000482	0.19208597	2.9748994	20	9 21.1	19.7
400876 2010 OA_{107}	15.3	X	281.13366	339.30351	42.86214	22.91064	0.2676586	0.17989307	3.1078479	20	6 27.4	20.1
400877 2010 OT_{120}	16.1	X	44.14251	316.82570	349.69031	12.63299	0.1083087	0.19593827	2.9357779	20	10 20.0	20.2
400878 2010 PC_{10}	15.9	X	82.97997	46.23240	322.50277	14.66245	0.3307342	0.22896635	2.6461936	20	—	—
400879 2010 PU_{21}	15.9	X	24.08830	8.06767	253.29155	7.02067	0.1411436	0.17724805	3.1386898	20	7 27.5	19.8
400880 2010 PW_{53}	16.8	X	116.29161	184.91138	163.64767	7.86764	0.3191658	0.23006641	2.6377517	20	1 7.9	20.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
400881 2010 PY_{56}	16.7	X	59.07294	47.49428	277.80794	9.21879	0.2433993	0.21503059	2.7593231	20	12 25.4	21.0
400882 2010 PX_{75}	17.5	X	131.46933	165.83311	150.21033	4.60476	0.2368126	0.23424681	2.6062752	20	—	—
400883 2010 PF_{76}	17.4	X	130.27429	344.27114	334.18088	3.87686	0.1727523	0.23438861	2.6052239	20	—	—
400884 2010 PK_{80}	16.2	X	208.82951	286.34887	161.90757	10.51500	0.1075521	0.18349802	3.0670095	20	7 21.2	21.0
400885 2010 QV_{4}	16.9	X	75.85647	66.73677	300.53295	8.98707	0.2271652	0.22832891	2.6511163	20	—	—
400886 2010 QE_{5}	16.6	X	95.03836	288.17594	345.81373	9.10443	0.2180102	0.21430706	2.7655302	20	11 21.9	21.3
400887 2010 RQ_{5}	17.3	X	303.97027	271.77092	176.55725	2.22620	0.0954321	0.21249124	2.7812628	20	11 29.9	20.5
400888 2010 RD_{24}	17.1	X	99.69530	204.70581	127.42391	2.35165	0.1090941	0.22655770	2.6649159	20	—	—
400889 2010 RP_{39}	16.6	X	76.88893	54.16389	331.34551	10.97807	0.3119777	0.22929168	2.6436899	20	1 2.6	19.3
400890 2010 RX_{39}	16.5	X	162.27761	45.75336	248.12853	6.59663	0.1786778	0.23638196	2.5905571	20	—	—
400891 2010 RT_{49}	17.3	X	127.54212	110.54206	186.01217	6.69191	0.2442470	0.22582912	2.6706445	20	—	—
400892 2010 RO_{50}	16.4	X	335.48428	161.15252	184.77416	9.93153	0.1109584	0.19088363	2.9873785	20	8 28.1	20.1
400893 2010 RF_{59}	16.7	X	39.80088	96.46362	276.03268	5.19588	0.0397859	0.21938151	2.7227182	20	—	—
400894 2010 RP_{98}	17.4	X	130.71033	125.33182	201.69584	10.98951	0.1694909	0.23197108	2.6232931	20	—	—
400895 2010 RN_{102}	16.9	X	96.56305	87.20400	216.45106	3.91200	0.0491366	0.21357136	2.7718775	20	12 18.5	20.8
400896 2010 RR_{113}	16.1	X	259.20232	163.08681	224.42259	8.55337	0.0845538	0.17771280	3.1332154	20	7 4.1	20.7
400897 2010 RF_{118}	16.6	X	103.07735	187.70811	108.75851	4.69695	0.0488480	0.21218605	2.7839290	20	12 16.9	20.7
400898 2010 RR_{120}	16.2	X	255.63512	206.52230	192.42186	9.51751	0.0745980	0.18333715	3.0688034	20	7 15.4	20.7
400899 2010 RB_{132}	16.6	X	232.35195	339.85483	214.59415	15.07245	0.0951553	0.22701714	2.6613191	20	—	—
400900 2010 RY_{141}	17.0	X	313.29534	140.86809	215.83173	8.35025	0.0904296	0.18810731	3.0167010	20	8 6.1	21.0
400901 2010 RM_{155}	16.1	X	255.17386	224.63297	170.62470	10.69038	0.1125733	0.17704755	3.1410591	20	7 5.5	20.8
400902 2010 RG_{162}	16.7	X	261.64107	184.87915	213.37632	1.50575	0.1009253	0.18547457	3.0451812	20	7 19.9	21.1
400903 2010 RB_{165}	16.3	X	51.60364	356.67538	355.64303	6.65886	0.0908242	0.21408522	2.7674403	20	—	—
400904 2010 RG_{176}	17.2	X	10.46942	180.67370	206.02903	5.45752	0.0721248	0.21082074	2.7959356	20	12 18.3	20.8
400905 2010 RC_{184}	16.3	X	338.34801	194.04166	146.69660	9.16028	0.0733125	0.18964515	3.0003705	20	8 29.0	19.9
400906 2010 SP_{5}	16.2	X	263.06700	134.33948	251.39442	9.11052	0.0484869	0.18165927	3.0876709	20	7 11.8	20.6
400907 2010 SB_{42}	16.5	X	79.09834	52.31838	296.07372	13.65230	0.1330536	0.22048415	2.7136331	20	—	—
400908 2010 TN_{18}	16.6	X	25.82549	30.65922	270.91044	4.57178	0.0579775	0.19592136	2.9359468	20	9 13.9	20.5
400909 2010 TY_{24}	16.5	X	4.47690	26.39080	21.30185	14.55839	0.1592436	0.21298606	2.7769534	20	—	—
400910 2010 TV_{46}	16.3	X	156.30703	342.69801	335.27959	13.98160	0.2235891	0.23668794	2.5883239	20	—	—
400911 2010 TH_{49}	16.5	X	337.95447	119.97538	189.83489	8.91775	0.0656313	0.17857925	3.1230724	20	7 14.8	20.7
400912 2010 TW_{88}	16.6	X	103.46003	139.27847	116.21151	3.05096	0.0359605	0.20153904	2.8811327	20	10 26.1	20.7
400913 2010 TS_{101}	16.8	X	76.65242	186.77445	102.60417	3.28602	0.0353068	0.20382480	2.8595522	20	11 5.3	20.8
400914 2010 TM_{104}	16.7	X	123.57338	75.58456	186.99955	14.31846	0.1249484	0.21146534	2.7902509	20	12 2.2	21.3
400915 2010 TW_{110}	16.5	X	29.86587	141.58564	235.38161	8.68601	0.1386865	0.21074401	2.7966142	20	—	—
400916 2010 TX_{115}	17.3	X	106.98316	82.76227	279.19053	4.10047	0.1923757	0.22993478	2.6387582	20	—	—
400917 2010 TD_{149}	15.6	X	325.74322	139.75944	200.31510	10.50732	0.0883669	0.18166254	3.0876338	20	8 2.8	19.7
400918 2010 TN_{149}	16.3	X	14.94295	350.47933	36.37606	8.23596	0.2482660	0.19902292	2.9053647	20	—	—
400919 2010 TC_{160}	16.1	X	18.76869	207.83080	41.34754	9.63012	0.0703839	0.17503496	3.1650909	20	6 27.8	20.3
400920 2010 TA_{166}	16.2	X	270.35926	348.13418	77.34500	5.64139	0.1357273	0.18346557	3.0673711	20	9 2.2	20.4
400921 2010 TB_{174}	16.6	X	101.20314	272.29537	86.59259	13.35572	0.3052766	0.22910993	2.6450879	20	1 2.3	19.9
400922 2010 TC_{181}	16.7	X	137.95172	110.11287	182.69461	14.12309	0.1531973	0.22608779	2.6686072	20	—	—
400923 2010 TR_{187}	16.0	X	304.66223	240.71749	138.75388	14.69726	0.2530685	0.18347756	3.0672376	20	8 2.6	19.4
400924 2010 UO_{3}	16.7	X	60.84098	140.52095	230.77750	8.94594	0.1497480	0.21676816	2.7445578	20	—	—
400925 2010 UU_{9}	16.1	X	292.07646	142.16190	218.76951	11.74796	0.0914307	0.17651303	3.1473970	20	7 10.7	20.5
400926 2010 UO_{25}	16.0	X	259.09837	12.64198	72.38717	12.27757	0.0624673	0.18237479	3.0795896	20	9 27.2	20.5
400927 2010 UD_{28}	15.6	X	162.27479	303.03142	224.71299	11.78860	0.0531658	0.18072152	3.0983429	20	9 6.7	20.5
400928 2010 UA_{43}	16.7	X	3.39838	328.38204	42.27089	13.49957	0.1125907	0.20148590	2.8816392	20	11 18.4	20.2
400929 2010 UB_{45}	16.8	X	96.18913	359.42904	310.04789	5.27783	0.1658494	0.21282196	2.7783807	20	—	—
400930 2010 UG_{58}	15.4	X	172.15498	272.98096	254.48429	12.25256	0.0893741	0.17961385	3.1110680	20	9 14.7	20.5
400931 2010 UV_{58}	16.2	X	265.89539	3.34166	53.55883	11.22012	0.0679003	0.17817087	3.1278428	20	8 28.8	20.7
400932 2010 UT_{78}	15.4	X	150.39814	223.12312	303.61301	8.71692	0.0926983	0.17941869	3.1133236	20	8 26.1	20.3
400933 2010 UZ_{92}	16.2	X	21.89211	265.11053	22.45566	8.80300	0.0533488	0.17781265	3.1320422	20	8 24.6	20.4
400934 2010 UP_{94}	16.0	X	121.31842	245.51755	133.55210	28.63137	0.3235084	0.23836962	2.5761360	20	2 19.8	20.1
400935 2010 UE_{107}	15.8	X	266.41368	275.29637	125.13528	16.26100	0.2321711	0.17799981	3.1298464	20	7 9.9	20.6
400936 2010 VP_{5}	16.7	X	1.72765	337.63411	81.35017	8.09924	0.1160649	0.21095257	2.7947707	20	—	—
400937 2010 VH_{25}	15.5	X	356.87376	73.39789	244.77570	13.63919	0.0324076	0.17609274	3.1524031	20	8 17.2	20.1
400938 2010 VD_{29}	16.3	X	292.41169	167.23519	244.69614	7.98570	0.0203552	0.18836382	3.0139616	20	9 24.8	20.6
400939 2010 VH_{30}	16.3	X	337.93849	198.02073	138.24709	8.37408	0.1731638	0.18665142	3.0323676	20	8 19.2	19.3
400940 2010 VG_{31}	16.1	X	298.81212	173.29769	207.52836	10.18959	0.1955350	0.18280727	3.0747306	20	7 31.5	20.0
400941 2010 VD_{40}	17.1	X	332.79427	118.17513	286.46454	4.78803	0.0885878	0.19523005	2.9428736	20	11 11.8	20.7
400942 2010 VT_{45}	16.2	X	205.16486	202.65307	264.15692	8.08926	0.0419960	0.17463951	3.1698671	20	8 11.9	20.9
400943 2010 VA_{47}	16.2	X	85.42013	334.05472	247.92731	15.18255	0.0838737	0.17245560	3.1965721	20	8 17.2	21.2
400944 2010 VF_{64}	15.3	X	106.96018	104.80832	82.29975	10.13892	0.0256345	0.17160061	3.2071813	20	7 31.8	19.9
400945 2010 VO_{65}	16.5	X	273.39594	333.15078	96.61497	6.44969	0.1161428	0.18834023	3.0142133	20	9 15.9	20.6
400946 2010 VJ_{83}	16.7	X	71.11998	120.88199	249.82430	3.47110	0.1399244	0.21616661	2.7496472	20	—	—
400947 2010 VT_{90}	16.1	X	326.39837	144.64206	254.61882	10.62936	0.1496614	0.19173166	2.9785632	20	10 22.0	19.6
400948 2010 VJ_{112}	15.7	X	300.32621	327.00518	65.32549	11.29454	0.1088225	0.18335048	3.0686546	20	9 9.7	19.8
400949 2010 VX_{114}	15.6	X	301.18757	131.19150	260.32587	13.57153	0.0565169	0.18132070	3.0915134	20	9 1.7	20.0
400950 2010 VU_{115}	16.2	X	266.44975	36.15078	19.32066	9.98634	0.0947956	0.18005992	3.1059277	20	8 22.5	20.6
400951 2010 VM_{118}	15.7	X	53.32049	13.53437	255.90129	16.84344	0.1673574	0.18127159	3.0920717	20	9 18.1	20.3
400952 2010 VO_{125}	16.6	X	354.55026	240.78113	149.45275	2.57231	0.0925530	0.19699568	2.9252629	20	11 29.1	20.1
400953 2010 VP_{125}	16.0	X	352.40226	142.11630	229.52148	7.95583	0.1001757	0.19171812	2.9787035	20	10 31.0	19.6
400954 2010 VH_{128}	15.5	X	255.24378	145.78713	233.10476	9.74914	0.1129625	0.16937958	3.2351569	20	6 15.3	20.3
400955 2010 VG_{142}	16.3	X	262.32724	213.99066	169.78999	5.47990	0.1475278	0.17234562	3.1979319	20	6 25.3	21.0
400956 2010 VH_{143}	16.6	X	295.15715	275.03880	137.48762	5.18107	0.0863434	0.18891829	3.0080615	20	9 27.5	20.5
400957 2010 VD_{169}	16.9	X	74.77725	87.11672	224.95851	1.05162	0.0445381	0.19795355	2.9158187	20	11 29.8	20.9
400958 2010 VQ_{181}	16.4	X	354.51785	280.30922	72.39749	10.97523	0.1226696	0.18808912	3.0168955	20	10 16.2	20.1
400959 2010 VG_{182}	16.8	X	141.66109	9.68578	333.37693	2.69676	0.2014721	0.23269081	2.6178809	20	1 13.5	20.6
400960 2010 VB_{201}	16.0	X	289.88460	77.48705	330.55326	8.69280	0.1224911	0.18275934	3.0752682	20	9 4.9	20.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
400961 2010 VC_{204}	16.1	X	341.01758	336.59779	339.88107	11.47602	0.1299323	0.18288865	3.0738184	20	7 31.7	19.7
400962 2010 VF_{213}	16.5	X	112.66323	8.96923	268.84381	7.10733	0.1956250	0.21114649	2.7930592	20	12 11.5	21.1
400963 2010 VH_{216}	16.4	X	4.45084	258.14916	33.92713	9.66351	0.1604905	0.18094352	3.0958080	20	8 12.7	20.0
400964 2010 WZ_{2}	16.6	X	349.98017	90.38794	253.99502	14.33790	0.2406699	0.18876120	3.0097302	20	9 20.5	19.8
400965 2010 WA_{3}	15.8	X	310.58656	346.72167	53.86521	10.10600	0.1503822	0.18806362	3.0171682	20	10 2.2	19.4
400966 2010 WT_{4}	16.2	X	349.52050	91.43909	226.22589	2.59635	0.0171644	0.17669429	3.1452443	20	8 11.8	20.5
400967 2010 WD_{8}	16.3	X	302.24565	288.35125	65.02653	10.98194	0.1996066	0.17695954	3.1421005	20	7 2.2	20.2
400968 2010 WF_{8}	15.7	X	287.22410	306.92908	70.28397	17.81103	0.2346342	0.17625372	3.1504834	20	7 5.4	20.1
400969 2010 WS_{11}	16.3	X	340.14093	108.67187	297.13653	9.02894	0.1057365	0.19940766	2.9016264	20	11 26.7	20.0
400970 2010 WO_{12}	16.8	X	322.08478	47.43349	323.51018	9.13863	0.0542758	0.18439962	3.0570043	20	9 10.3	20.8
400971 2010 WG_{20}	16.6	X	340.24529	265.22289	67.74252	3.03367	0.2068768	0.18052043	3.1006433	20	8 18.3	19.8
400972 2010 XX_{17}	16.0	X	10.76508	91.15167	260.34778	9.99623	0.0893573	0.18278310	3.0750016	20	10 27.8	20.2
400973 2010 XK_{19}	15.2	X	263.04329	142.79875	291.76784	26.46308	0.1435521	0.17429069	3.1740950	20	8 17.9	20.1
400974 2010 XQ_{35}	16.6	X	21.00537	244.06358	97.36229	2.90940	0.1376725	0.19177203	2.9781452	20	11 10.5	20.3
400975 2010 XE_{36}	15.7	X	259.31471	359.67930	95.21322	9.76723	0.2079551	0.18364883	3.0653303	20	9 17.0	20.2
400976 2010 XE_{42}	16.1	X	333.64287	119.26976	278.76121	9.99990	0.1500338	0.18703236	3.0282488	20	11 1.2	19.7
400977 2010 XM_{42}	16.8	X	102.50333	288.63546	32.96523	4.47115	0.0972807	0.22192868	2.7018450	20	—	—
400978 2010 XH_{45}	15.7	X	264.47023	336.47355	76.61092	10.44306	0.1235014	0.17607253	3.1526443	20	8 11.1	20.2
400979 2010 XM_{53}	16.6	X	4.82857	262.93661	82.33367	2.53939	0.0984581	0.18980863	2.9986474	20	10 17.1	20.4
400980 2010 XJ_{56}	18.1	X	84.62822	12.30983	85.06525	19.23927	0.1234090	0.44830085	1.6907900	20	2 24.2	19.4
400981 2010 XT_{71}	15.7	X	209.97975	203.65059	272.55223	7.91250	0.0556209	0.17405733	3.1769314	20	8 27.3	20.6
400982 2010 XX_{76}	15.8	X	91.90986	160.73962	87.01752	14.11891	0.0800068	0.18013818	3.1050281	20	10 10.8	20.6
400983 2010 XK_{83}	15.9	X	265.17876	162.15114	262.56320	5.49251	0.1310877	0.17804138	3.1293592	20	8 20.2	20.3
400984 2010 XT_{86}	15.7	X	307.25590	189.63753	247.17162	13.00172	0.1450423	0.19229684	2.9727242	20	11 9.5	19.1
400985 2010 YA_{1}	15.6	X	326.40804	125.30073	267.95653	14.58357	0.0738613	0.18646646	3.0343725	20	10 11.5	19.8
400986 2011 AZ_{27}	15.4	X	300.73606	283.94169	117.39280	27.09559	0.2248248	0.17886732	3.1197183	20	9 4.6	19.4
400987 2011 AB_{40}	15.9	X	349.68189	248.42027	145.57737	10.24562	0.1191477	0.18574467	3.0422284	20	11 27.5	19.7
400988 2011 AX_{43}	15.9	X	314.21366	293.87627	119.52959	13.90110	0.1875932	0.18173919	3.0867657	20	10 23.4	19.6
400989 2011 BL_{22}	15.4	X	206.61639	124.26559	304.37769	8.73853	0.0716981	0.14638496	3.5656476	20	6 27.3	20.8
400990 2011 BB_{61}	16.0	X	292.33572	115.52584	305.98702	8.99286	0.1810324	0.17741613	3.1367072	20	9 14.0	20.1
400991 2011 CX_{24}	15.7	X	312.86417	270.03774	127.05728	23.59668	0.1967254	0.17720886	3.1391525	20	9 27.2	19.6
400992 2011 CJ_{42}	17.6	X	262.52491	303.49690	151.38888	23.74559	0.0477619	0.38315763	1.8773752	20	12 1.8	20.0
400993 2011 CZ_{117}	17.9	X	254.58046	4.23447	118.25076	24.89645	0.0592106	0.38666521	1.8660043	20	12 29.1	19.4
400994 2011 EC_{86}	18.1	X	134.41832	122.48310	122.89385	23.87572	0.0446639	0.37641418	1.8997308	20	12 30.0	20.3
400995 2011 GN_{41}	17.9	X	87.01114	67.67448	166.93261	23.20241	0.0829340	0.35895421	1.9608454	20	10 11.5	20.4
400996 2011 OO_{17}	16.3	X	104.45793	67.47100	233.49991	12.90371	0.1397909	0.25331426	2.4737908	20	—	—
400997 2011 QX_{9}	18.1	X	205.86421	351.68260	318.86636	6.34396	0.1288582	0.28269987	2.2992471	20	1 23.8	21.4
400998 2011 QE_{10}	17.1	X	283.69407	291.74889	310.84523	6.83661	0.1048969	0.28688498	2.2768312	20	1 19.2	20.1
400999 2011 QG_{11}	17.9	X	255.24817	190.00697	137.70209	1.38380	0.1987397	0.30159982	2.2021589	20	3 28.3	21.1
401000 2011 QV_{13}	18.2	X	198.23971	206.24573	148.80511	3.29619	0.3146332	0.28984603	2.2612980	20	3 13.5	22.2
401001 2011 QO_{17}	17.7	X	170.85927	199.71841	152.47703	6.15182	0.1260987	0.27997998	2.3141139	20	2 9.3	21.1
401002 2011 QC_{31}	18.1	X	244.62768	214.62688	105.35045	4.35132	0.2004099	0.29761055	2.2217942	20	3 9.8	21.6
401003 2011 QG_{40}	17.9	X	168.26408	164.79864	170.70605	5.27278	0.1847645	0.27809337	2.3245682	20	1 21.0	21.6
401004 2011 QX_{61}	18.0	X	234.44539	17.10283	282.98413	4.21592	0.1902135	0.28794819	2.2712232	20	2 3.3	21.5
401005 2011 QG_{88}	18.2	X	331.90199	98.10448	147.02125	5.11029	0.1383927	0.30212544	2.1996041	20	3 25.3	20.1
401006 2011 QG_{92}	16.3	X	193.34521	249.22554	304.11706	10.59963	0.1869840	0.24169124	2.5524786	20	11 11.1	20.5
401007 2011 QX_{92}	18.3	X	204.41026	50.52303	316.48032	6.00982	0.1111490	0.29389200	2.2404962	20	3 30.3	21.7
401008 2011 QN_{93}	17.5	X	321.45198	311.74062	280.44863	4.42565	0.1220858	0.29280204	2.2460529	20	2 17.9	20.1
401009 2011 RM_{3}	18.1	X	234.35874	314.27660	4.46603	7.96820	0.2736799	0.29262879	2.2469394	20	2 25.9	22.0
401010 2011 RX_{10}	18.4	X	205.38599	41.79993	303.27658	1.24419	0.2295305	0.28969773	2.2620697	20	3 5.3	22.1
401011 2011 RP_{13}	18.2	X	256.12550	150.65557	156.14945	4.19485	0.1882065	0.29782264	2.2207393	20	3 2.9	21.2
401012 2011 RY_{13}	18.6	X	237.43385	92.88553	226.72066	2.11299	0.1929128	0.29400128	2.2399409	20	2 29.5	22.2
401013 2011 RV_{15}	17.6	X	335.18219	217.03917	258.70055	6.12546	0.0713043	0.25837753	2.4413660	20	—	—
401014 2011 SV_{4}	17.5	X	199.05327	324.66252	332.36426	6.54272	0.1219201	0.27358402	2.3500417	20	1 1.3	21.1
401015 2011 SB_{9}	17.6	X	236.55865	119.06607	167.27251	4.34309	0.1454697	0.27994299	2.3143177	20	1 21.8	21.3
401016 2011 SV_{29}	17.5	X	149.87998	230.55273	142.09914	6.22442	0.2374378	0.27649779	2.3335025	20	2 25.1	21.1
401017 2011 SE_{32}	17.4	X	180.32475	141.71024	200.33328	12.41332	0.2524709	0.27594495	2.3366182	20	2 9.8	21.7
401018 2011 SQ_{34}	17.4	X	205.18823	266.16843	27.36060	7.60743	0.1718815	0.27327556	2.3518097	20	1 4.4	21.2
401019 2011 SC_{35}	17.3	X	26.07588	122.72235	182.39686	3.94047	0.0525597	0.21454118	2.7635179	20	9 23.7	20.8
401020 2011 SZ_{36}	17.8	X	124.35582	251.51153	164.66044	6.97894	0.1047496	0.27631181	2.3345495	20	3 9.8	20.8
401021 2011 SF_{40}	17.4	X	156.13322	186.85441	168.05369	6.88894	0.1427989	0.27304681	2.3531231	20	1 29.9	20.9
401022 2011 SN_{46}	17.4	X	131.42443	197.55997	185.69267	4.67346	0.2304285	0.27181256	2.3602411	20	2 18.8	20.9
401023 2011 SC_{51}	18.0	X	216.81367	44.77849	311.00035	6.02271	0.2640326	0.29262223	2.2469729	20	3 24.2	21.9
401024 2011 SC_{56}	18.0	X	218.72724	178.80740	99.41355	3.15570	0.2030769	0.27263464	2.3554941	20	—	—
401025 2011 SN_{80}	17.6	X	212.18569	248.20850	344.94596	6.02078	0.0992305	0.25669921	2.4519957	20	—	—
401026 2011 SU_{98}	18.1	X	251.98520	79.76135	187.45313	5.07912	0.1492860	0.27997251	2.3141550	20	1 12.4	21.6
401027 2011 SG_{102}	17.5	X	211.82636	148.24468	129.46620	3.56149	0.1894305	0.27381094	2.3487431	20	—	—
401028 2011 SK_{118}	17.5	X	191.24482	269.10058	118.28838	8.24896	0.1338076	0.29132778	2.2536239	20	4 19.8	21.0
401029 2011 SB_{126}	18.5	X	257.15630	295.23695	37.96032	5.20283	0.1850747	0.29649110	2.2273832	20	4 8.7	21.7
401030 2011 SJ_{127}	18.0	X	303.43403	113.73475	178.92439	5.08441	0.1771784	0.30285640	2.1960634	20	4 11.1	20.2
401031 2011 SL_{127}	17.6	X	133.99388	172.48454	178.27304	4.96910	0.1249920	0.26311001	2.4120028	20	—	—
401032 2011 SR_{135}	17.7	X	294.61443	293.94919	325.22895	7.22110	0.1290193	0.29217113	2.2492851	20	2 18.8	20.6
401033 2011 SX_{166}	15.9	X	158.12785	100.95265	40.48055	11.54559	0.0498977	0.19160150	2.9799120	20	8 10.3	20.5
401034 2011 SK_{182}	17.1	X	329.00996	83.34606	324.78446	2.14329	0.0900037	0.22388195	2.6861072	20	11 18.8	20.1
401035 2011 SL_{185}	17.8	X	149.93285	243.81308	166.70282	5.40068	0.1569790	0.28045018	2.3115266	20	4 7.1	21.2
401036 2011 SO_{191}	17.7	X	214.34871	131.70509	221.35656	6.00221	0.1193848	0.28505165	2.2865832	20	3 24.0	21.0
401037 2011 ST_{198}	17.8	X	216.16884	126.36221	156.83920	6.70021	0.0600680	0.27404167	2.3474246	20	—	—
401038 2011 SH_{208}	16.1	X	111.02124	278.10847	192.76087	17.76739	0.1448105	0.17811384	3.1285104	20	5 16.2	21.0
401039 2011 ST_{216}	17.1	X	337.13072	322.91288	83.66523	6.68095	0.2145252	0.22573214	2.6714094	20	12 11.1	19.4
401040 2011 SA_{240}	17.9	X	274.03408	105.75243	188.42557	3.17354	0.0170373	0.29190703	2.2506416	20	3 28.2	20.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
401041 2011 SW_{256}	17.4	X	293.55221	197.18232	50.77701	7.52146	0.0766120	0.27738467	2.3285259	20	2 16.0	20.4
401042 2011 SJ_{260}	16.7	X	258.18938	19.80470	72.30670	5.86895	0.0373740	0.21468349	2.7622964	20	10 9.8	20.4
401043 2011 SZ_{260}	17.3	X	236.80211	230.78893	45.18697	4.92134	0.0506933	0.26996086	2.3710216	20	1 15.9	20.5
401044 2011 SH_{269}	17.2	X	231.29622	260.50621	53.23351	4.81183	0.0240892	0.28287736	2.2982852	20	2 29.3	20.1
401045 2011 SC_{273}	17.7	X	134.99493	298.19570	71.28153	3.71971	0.1945158	0.27143709	2.3624171	20	2 3.3	20.9
401046 2011 TM_{9}	18.6	X	272.32803	137.16383	190.28154	4.25193	0.1927937	0.30437695	2.1887435	20	4 16.1	21.4
401047 2011 TH_{13}	17.0	X	181.80020	71.50255	237.53361	10.61482	0.2220876	0.26841307	2.3801278	20	1 3.8	21.0
401048 2011 UK	17.2	X	90.04457	156.43461	147.32388	11.47541	0.1572975	0.23562741	2.5960846	20	12 24.9	21.5
401049 2011 UA_{2}	17.7	X	189.70261	67.61465	243.25288	2.87924	0.2394693	0.27174141	2.3606531	20	1 13.7	21.6
401050 2011 UG_{6}	17.4	X	359.47692	327.97577	47.75485	2.09183	0.0896607	0.22134296	2.7066093	20	11 23.2	20.7
401051 2011 US_{7}	17.2	X	29.97189	116.53692	228.19555	5.35109	0.0792517	0.22241762	2.6978839	20	11 25.5	20.8
401052 2011 UN_{16}	15.9	X	85.77734	296.72976	230.20401	21.93769	0.2010085	0.17169128	3.2060520	20	6 28.5	20.9
401053 2011 UE_{17}	17.2	X	202.06985	92.39047	246.76321	5.88209	0.1388737	0.27714582	2.3298636	20	2 22.3	20.8
401054 2011 UG_{17}	17.3	X	65.61711	276.64405	40.44734	6.07479	0.0594534	0.22354146	2.6888340	20	12 1.8	21.0
401055 2011 UU_{19}	16.5	X	336.98242	28.58892	247.77736	9.30882	0.0601858	0.18134416	3.0912467	20	5 31.9	20.3
401056 2011 UU_{24}	18.0	X	134.12893	334.52828	359.90376	2.48914	0.1806027	0.25787703	2.4445238	20	—	—
401057 2011 UP_{35}	17.4	X	197.68731	290.46611	63.79081	6.36202	0.1888783	0.28041792	2.3117039	20	3 14.6	21.2
401058 2011 UE_{36}	17.0	X	29.18836	311.42271	62.20691	5.12932	0.1484802	0.22995121	2.6386326	20	—	—
401059 2011 UF_{39}	17.6	X	172.65329	143.90043	237.56319	5.62885	0.1225681	0.28229656	2.3014365	20	3 17.4	21.0
401060 2011 UN_{39}	15.6	X	215.95241	295.32676	47.46589	33.72846	0.0857574	0.17115625	3.2127298	20	4 10.0	20.9
401061 2011 UT_{45}	17.7	X	172.31089	306.90947	17.51593	2.80681	0.2193691	0.26971843	2.3724422	20	1 16.1	21.5
401062 2011 UZ_{45}	16.7	X	3.29538	184.29575	226.28511	12.37537	0.1548251	0.23400104	2.6080997	20	—	—
401063 2011 UP_{46}	17.1	X	299.91607	51.67262	242.07855	8.86278	0.0339273	0.29313359	2.2443590	20	4 30.3	19.8
401064 2011 UM_{53}	17.2	X	313.62323	217.29229	259.77441	3.30402	0.1615973	0.23141589	2.6274872	20	—	—
401065 2011 US_{53}	17.7	X	161.22636	309.30225	34.65789	5.25493	0.0977443	0.26311704	2.4119598	20	1 21.1	21.2
401066 2011 UN_{54}	17.9	X	196.93002	151.57944	222.53687	5.14442	0.1902467	0.28535051	2.2849864	20	4 3.0	21.5
401067 2011 UP_{54}	16.1	X	284.84550	271.40225	51.84190	11.32363	0.0555858	0.17922116	3.1156108	20	5 20.2	20.5
401068 2011 UE_{59}	17.7	X	266.96681	115.82458	179.49324	7.29822	0.1321460	0.29182768	2.2510496	20	3 4.2	20.7
401069 2011 UK_{59}	17.3	X	56.98808	139.21642	234.19465	12.83612	0.1878046	0.23940202	2.5687244	20	—	—
401070 2011 UO_{79}	16.7	X	162.95528	317.83217	252.98660	3.93750	0.0541236	0.22014639	2.7164080	20	11 9.5	20.5
401071 2011 UH_{80}	18.6	X	268.14009	61.25928	263.71999	2.25365	0.2425713	0.29896288	2.2150891	20	3 31.7	22.0
401072 2011 UT_{80}	18.0	X	196.63014	158.69123	222.85299	6.18784	0.1231370	0.28668263	2.2779025	20	4 12.8	21.2
401073 2011 UC_{82}	15.9	X	74.18809	313.74798	256.58625	10.82356	0.1553528	0.18662664	3.0326361	20	8 3.3	20.4
401074 2011 UM_{84}	17.2	X	304.57635	113.36215	20.84449	6.37929	0.0369451	0.23620259	2.5918684	20	—	—
401075 2011 UV_{86}	16.4	X	91.65382	90.80107	238.14522	25.03536	0.2186803	0.23771825	2.5808397	20	—	—
401076 2011 UK_{94}	17.6	X	232.04250	299.87593	14.92619	0.82853	0.2272978	0.28251707	2.3002388	20	2 19.8	21.5
401077 2011 UM_{101}	16.3	X	316.70467	331.27404	54.76230	20.94677	0.0729896	0.20976205	2.8053353	20	10 9.4	20.1
401078 2011 UD_{102}	17.7	X	162.37959	285.39472	22.94163	2.79299	0.1902806	0.25707262	2.4496206	20	—	—
401079 2011 UY_{102}	16.6	X	249.22555	254.69014	260.06509	9.90283	0.1255298	0.22197952	2.7014325	20	12 3.1	20.1
401080 2011 US_{103}	16.8	X	205.93941	187.75591	58.77387	16.05626	0.0691396	0.23932178	2.5692985	20	—	—
401081 2011 UD_{106}	17.9	X	143.09676	199.65266	116.26290	1.89162	0.1859491	0.25737348	2.4477112	20	—	—
401082 2011 UT_{116}	17.5	X	244.99099	299.99045	0.07273	6.03721	0.1400462	0.28317746	2.2966612	20	2 18.7	20.9
401083 2011 UV_{119}	18.2	X	304.34490	193.47473	89.58938	2.89355	0.1008522	0.29776582	2.2210218	20	4 12.5	20.5
401084 2011 UZ_{128}	17.3	X	185.34732	121.56711	261.84362	5.93358	0.1480953	0.28236084	2.3010872	20	4 2.3	20.8
401085 2011 UB_{129}	16.4	X	275.47661	117.36199	34.96616	11.80398	0.0784863	0.23021957	2.6365816	20	—	—
401086 2011 UE_{131}	15.7	X	239.40069	158.19383	227.24480	21.58329	0.0776838	0.18400900	3.0613290	20	6 8.9	20.4
401087 2011 UV_{132}	16.8	X	32.23145	95.10956	234.46156	5.47655	0.0119226	0.21670389	2.7451005	20	10 28.3	20.3
401088 2011 UD_{137}	17.1	X	279.32085	91.52481	34.73703	11.91847	0.0265799	0.22507093	2.6766388	20	12 20.7	20.8
401089 2011 UP_{139}	18.1	X	251.34606	326.33164	346.54919	1.12021	0.0709560	0.28086277	2.3092623	20	3 17.8	21.1
401090 2011 UM_{141}	17.4	X	238.49585	216.83146	99.96243	5.28080	0.1735252	0.28609429	2.2810244	20	3 2.9	20.9
401091 2011 UW_{152}	15.4	X	66.52073	324.48527	238.03197	26.35981	0.1130753	0.17719012	3.1393739	20	7 4.7	20.1
401092 2011 UM_{156}	16.7	X	116.08914	217.64043	71.11918	14.53630	0.2441206	0.23373124	2.6101064	20	12 31.3	21.3
401093 2011 US_{164}	16.8	X	128.72854	113.91438	200.54443	13.58936	0.0955460	0.24624908	2.5208846	20	—	—
401094 2011 UT_{170}	17.8	X	249.31305	318.69043	329.13878	7.22553	0.1169447	0.28171220	2.3046180	20	2 8.2	21.1
401095 2011 UA_{177}	18.0	X	193.42634	311.03902	17.03100	3.07483	0.1342856	0.27187016	2.3599077	20	2 4.5	21.5
401096 2011 UK_{182}	16.7	X	70.62971	356.32604	1.84452	5.17589	0.1745356	0.23997593	2.5646273	20	—	—
401097 2011 UG_{183}	17.8	X	159.66873	93.44954	299.82662	1.81930	0.1949304	0.27612024	2.3356291	20	3 26.1	21.4
401098 2011 UO_{189}	17.8	X	191.90599	275.95817	94.81611	6.22830	0.1549908	0.28246043	2.3005463	20	3 29.8	21.4
401099 2011 UZ_{189}	18.4	X	249.63306	258.95892	62.67640	6.86581	0.2879061	0.29039511	2.2584467	20	3 12.7	22.3
401100 2011 UQ_{190}	17.2	X	29.64778	257.22251	285.86629	3.85191	0.0574787	0.28630643	2.2798975	20	4 7.1	19.7
401101 2011 UD_{197}	17.2	X	201.68078	276.53969	4.59375	6.04584	0.1399806	0.25740911	2.4474854	20	—	—
401102 2011 UQ_{202}	17.2	X	200.06066	273.68770	70.66035	7.43246	0.1603349	0.27717865	2.3296796	20	3 4.9	20.9
401103 2011 UJ_{209}	17.1	X	157.55456	305.84989	326.12356	3.85176	0.1201171	0.24515421	2.5283847	20	—	—
401104 2011 UO_{218}	16.9	X	316.95875	116.52198	47.63559	7.03853	0.0603995	0.25678421	2.4514545	20	—	—
401105 2011 UQ_{218}	17.6	X	154.61490	202.20754	56.05029	4.57762	0.2042405	0.24278799	2.5447859	20	12 27.4	21.8
401106 2011 UQ_{242}	16.2	X	83.84826	37.76119	237.40437	12.54078	0.1366336	0.21544536	2.7557805	20	11 8.1	20.2
401107 2011 UY_{242}	16.6	X	115.53639	256.39089	241.38164	11.25255	0.0950021	0.17427462	3.1742901	20	6 15.8	21.3
401108 2011 UN_{243}	17.2	X	188.56421	319.18821	46.91657	5.55468	0.2154945	0.28075320	2.3098631	20	3 20.9	21.1
401109 2011 UE_{245}	18.1	X	72.03383	132.74084	298.72808	0.61864	0.1681775	0.25987536	2.4319762	20	1 25.9	20.3
401110 2011 UQ_{251}	16.8	X	318.15120	314.49218	85.79048	5.30965	0.1018104	0.21186124	2.7867737	20	10 21.2	20.0
401111 2011 UP_{253}	17.2	X	5.68607	264.99888	108.10767	3.05923	0.1041889	0.21963658	2.7206098	20	11 30.9	20.4
401112 2011 UQ_{256}	16.6	X	8.45779	150.36487	230.25963	4.80750	0.0562441	0.22469897	2.6795919	20	12 9.7	19.9
401113 2011 UN_{260}	17.6	X	214.59238	321.79956	29.13564	7.56539	0.1442605	0.28362238	2.2942587	20	3 24.8	21.0
401114 2011 UZ_{267}	17.4	X	96.17699	100.60396	254.93940	4.13174	0.1687550	0.24682202	2.5169820	20	—	—
401115 2011 UP_{268}	16.4	X	291.71708	29.19191	26.90894	13.93044	0.1741526	0.21229622	2.7829658	20	9 22.7	19.7
401116 2011 US_{268}	17.8	X	174.92519	109.06628	270.64287	5.56177	0.1329037	0.28126328	2.3070695	20	3 17.5	21.3
401117 2011 UF_{275}	16.0	X	103.30655	272.06720	230.38178	17.34985	0.0939913	0.17584343	3.1553821	20	6 7.4	20.7
401118 2011 UL_{275}	16.9	X	11.17803	112.36821	252.14197	5.52751	0.0266573	0.22186441	2.7023668	20	11 17.8	20.3
401119 2011 UB_{277}	17.3	X	60.06117	87.94609	353.95130	5.46716	0.0362764	0.25706415	2.4496744	20	1 8.7	20.3
401120 2011 US_{280}	17.6	X	169.20399	136.62329	248.04421	4.73154	0.1734011	0.28066615	2.3103407	20	3 21.1	21.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
401121 2011 UF_{281}	17.4	X	121.75268	305.03885	90.06904	5.64904	0.1282792	0.26626470	2.3929134	20	2 13.6	20.5
401122 2011 UE_{284}	17.3	X	63.14597	331.37625	29.72653	5.16308	0.2024696	0.23750752	2.5823661	20	—	—
401123 2011 UW_{286}	17.1	X	24.30069	27.54607	326.90049	4.60350	0.0175411	0.22430272	2.6827468	20	11 20.6	20.7
401124 2011 UA_{293}	17.6	X	203.85286	192.54010	104.16659	3.40374	0.1995647	0.26437071	2.4043286	20	1 8.2	21.6
401125 2011 UF_{293}	17.5	X	166.71312	305.79577	73.54752	6.63038	0.1161372	0.27474743	2.3434029	20	3 14.9	20.9
401126 2011 UZ_{294}	17.6	X	289.06419	251.95951	84.84856	3.64339	0.2211687	0.30822899	2.1704697	20	5 17.4	20.0
401127 2011 US_{299}	16.0	X	350.65298	34.72940	223.62639	11.75812	0.1229355	0.18016737	3.1046928	20	5 26.8	19.7
401128 2011 US_{306}	17.4	X	113.52084	208.63441	226.15903	2.92658	0.0783320	0.28095990	2.3087301	20	3 15.1	20.2
401129 2011 UW_{307}	15.4	X	144.71662	203.38625	259.55234	15.24562	0.1985027	0.17420353	3.1751537	20	6 10.5	20.5
401130 2011 UJ_{309}	17.5	X	175.53250	251.61594	86.68534	8.39941	0.2026260	0.27389711	2.3482504	20	2 4.5	21.3
401131 2011 UL_{314}	17.7	X	181.80177	177.60686	119.76896	3.23634	0.2122223	0.26116040	2.4239919	20	—	—
401132 2011 UF_{316}	18.0	X	231.77045	275.72988	40.39169	7.37024	0.1974807	0.28080529	2.3095774	20	2 25.6	21.8
401133 2011 UE_{317}	17.8	X	226.75312	272.68314	47.69263	9.34009	0.2386263	0.28162231	2.3051084	20	2 26.4	21.8
401134 2011 UX_{326}	17.2	X	356.63030	153.94275	233.33426	5.09204	0.1757012	0.22237665	2.6982153	20	12 15.4	20.2
401135 2011 UN_{336}	18.0	X	170.34314	152.42942	237.43528	1.88301	0.2234447	0.27992900	2.3143949	20	4 1.6	21.7
401136 2011 UN_{338}	18.0	X	180.93563	170.87568	154.53756	6.11002	0.1699856	0.27378381	2.3488983	20	1 20.1	21.7
401137 2011 UL_{361}	16.7	X	286.74490	250.87179	215.85352	13.31098	0.0533780	0.22857053	2.6492477	20	12 5.5	20.2
401138 2011 UC_{371}	17.9	X	269.89184	194.41148	57.90714	12.87594	0.2125015	0.27731669	2.3289065	20	1 8.3	21.7
401139 2011 UB_{376}	17.8	X	211.16348	319.89760	21.06557	5.14685	0.1699484	0.28131834	2.3067685	20	3 8.2	21.4
401140 2011 UW_{379}	17.3	X	140.54861	117.28796	239.75437	8.73094	0.1295213	0.27074161	2.3664611	20	1 13.4	20.6
401141 2011 UP_{384}	17.3	X	279.02513	305.61208	299.52298	6.22365	0.0890191	0.26636592	2.3923072	20	1 21.5	20.6
401142 2011 UX_{386}	16.2	X	13.50449	233.04769	94.58056	10.62513	0.1566597	0.21510471	2.7586891	20	10 24.5	19.6
401143 2011 UL_{398}	16.4	X	147.54844	331.39951	235.12043	8.77532	0.0584092	0.21611706	2.7500674	20	10 15.8	20.6
401144 2011 UL_{399}	17.6	X	191.02704	209.48152	97.39319	2.33562	0.1912854	0.26854017	2.3793767	20	1 8.9	21.4
401145 2011 UU_{404}	16.7	X	304.31358	318.14367	107.97811	6.16811	0.1350136	0.22222076	2.6994770	20	11 2.7	19.7
401146 2011 VD_{9}	16.7	X	173.06464	140.86012	227.26088	23.98067	0.2944152	0.27621456	2.3350974	20	3 4.2	21.3
401147 2011 VY_{10}	17.8	X	182.26756	291.95394	19.93873	1.56794	0.1889888	0.26734145	2.3864839	20	1 7.6	21.6
401148 2011 VO_{11}	16.3	X	247.47418	166.26964	244.52230	11.01066	0.0752736	0.19075220	2.9887507	20	7 19.8	20.8
401149 2011 VK_{12}	16.7	X	241.76602	337.96469	240.17504	7.29090	0.1190366	0.23957545	2.5674846	20	—	—
401150 2011 VH_{13}	16.9	X	83.24336	87.42518	225.78290	8.11476	0.0489646	0.22714167	2.6603463	20	12 17.9	20.6
401151 2011 VP_{13}	18.3	X	261.82479	127.27719	216.22299	3.61493	0.2143518	0.29931769	2.2133383	20	4 23.1	21.2
401152 2011 VJ_{16}	17.7	X	168.95360	277.49166	51.37027	5.31672	0.2469956	0.26889447	2.3772862	20	1 21.1	21.7
401153 2011 WQ_{1}	16.6	X	105.83119	247.14206	71.06587	13.45198	0.1758215	0.23568951	2.5956286	20	—	—
401154 2011 WD_{2}	15.7	X	288.07197	254.16092	246.55489	20.51720	0.0992771	0.22755221	2.6571456	20	—	—
401155 2011 WB_{4}	17.7	X	244.50523	157.68935	30.65637	2.33538	0.0440810	0.23546528	2.5972761	20	—	—
401156 2011 WF_{15}	17.4	X	32.78766	119.66974	316.69793	4.97338	0.1605609	0.24500232	2.5294295	20	—	—
401157 2011 WQ_{16}	16.5	X	300.52432	227.88607	269.07478	10.95865	0.0391526	0.23142291	2.6274340	20	—	—
401158 2011 WP_{27}	17.2	X	146.64423	288.15025	118.06134	6.69845	0.1718672	0.27355669	2.3501982	20	4 1.8	20.8
401159 2011 WR_{35}	15.7	X	207.23671	358.66708	74.05549	15.21017	0.0990404	0.18304634	3.0720528	20	7 1.5	20.5
401160 2011 WY_{43}	15.7	X	235.18720	180.61048	251.37897	10.47844	0.0696239	0.19065937	2.9897207	20	8 1.1	20.2
401161 2011 WK_{48}	16.6	X	17.61927	308.07884	91.26145	12.43124	0.0976675	0.22086549	2.7105087	20	—	—
401162 2011 WN_{53}	17.8	X	153.29259	0.89984	37.96310	3.03821	0.2193640	0.27553287	2.3389473	20	3 30.8	21.6
401163 2011 WU_{53}	15.9	X	211.43189	189.66363	241.93318	8.26759	0.1181093	0.18346923	3.0673304	20	7 2.7	20.7
401164 2011 WV_{53}	17.2	X	177.06587	299.54028	56.97707	6.66176	0.1461363	0.27582653	2.3372869	20	2 26.7	20.8
401165 2011 WX_{54}	17.2	X	5.22832	298.24176	68.16981	6.64781	0.0568217	0.22144159	2.7058056	20	11 16.5	20.7
401166 2011 WY_{54}	17.1	X	277.21635	42.88002	215.22860	6.24975	0.0791757	0.27388629	2.3483123	20	2 3.0	20.3
401167 2011 WZ_{54}	17.0	X	271.49902	122.27142	54.92257	11.22770	0.0577838	0.24295815	2.5435975	20	—	—
401168 2011 WJ_{59}	17.2	X	180.00760	221.18574	84.36165	6.03328	0.1193677	0.25439147	2.4668024	20	—	—
401169 2011 WE_{60}	17.3	X	331.57361	51.01554	90.98396	4.84542	0.0811538	0.24358311	2.5392450	20	—	—
401170 2011 WQ_{63}	16.0	X	199.00094	181.81608	255.33143	6.65807	0.0982570	0.18054320	3.1003826	20	6 28.4	20.8
401171 2011 WD_{65}	16.1	X	297.49522	290.08982	76.49946	12.84926	0.1227228	0.19307021	2.9647804	20	7 27.6	20.0
401172 2011 WS_{65}	16.7	X	226.22558	14.10460	48.23696	3.17846	0.1104351	0.18323292	3.0699670	20	7 8.6	21.4
401173 2011 WH_{70}	18.2	X	212.31623	300.10937	48.00576	6.86746	0.2149123	0.28360902	2.2943307	20	3 18.7	22.0
401174 2011 WM_{70}	18.3	X	186.54931	125.72429	264.52068	2.26269	0.2170159	0.28407294	2.2918322	20	4 14.9	22.1
401175 2011 WV_{88}	16.5	X	221.50584	288.54172	259.09091	12.02447	0.1547105	0.21714649	2.7413690	20	12 5.0	20.5
401176 2011 WN_{94}	17.3	X	278.11263	310.98564	229.36233	8.22158	0.1055062	0.23876914	2.5732615	20	—	—
401177 2011 WT_{96}	17.3	X	338.90552	67.22206	213.99816	6.04977	0.1439537	0.29645081	2.2275850	20	6 6.3	19.0
401178 2011 WF_{97}	16.9	X	210.10451	288.17470	241.33604	3.75965	0.1319704	0.21323760	2.7747691	20	11 2.1	21.0
401179 2011 WA_{98}	17.1	X	358.21853	276.23333	88.12410	9.54718	0.1789273	0.21613819	2.7498882	20	11 17.6	20.1
401180 2011 WF_{99}	15.8	X	91.71531	341.13513	250.79900	15.56358	0.0353439	0.19655707	2.9296131	20	9 1.8	20.3
401181 2011 WL_{102}	16.7	X	112.43011	190.84455	87.05884	8.13164	0.1618637	0.22411390	2.6842534	20	12 12.4	21.0
401182 2011 WD_{103}	15.8	X	178.45761	206.08240	258.38183	10.90870	0.0457083	0.18360091	3.0658636	20	7 10.7	20.3
401183 2011 WE_{103}	15.6	X	38.84733	325.27811	263.77538	9.97068	0.0502226	0.17916702	3.1162383	20	6 28.4	19.8
401184 2011 WM_{104}	16.4	X	164.27401	60.53357	61.88014	11.80276	0.0479363	0.18423354	3.0588411	20	7 20.5	21.0
401185 2011 WE_{108}	16.5	X	112.16137	311.19058	223.30003	3.40654	0.0760941	0.18215302	3.0820887	20	7 25.8	21.1
401186 2011 WJ_{109}	17.3	X	179.31755	75.61815	233.64829	5.81809	0.1175091	0.25611733	2.4557081	20	—	—
401187 2011 WS_{113}	16.9	X	24.37101	95.70642	287.88423	4.85719	0.0180511	0.22190392	2.7020460	20	12 28.5	20.3
401188 2011 WV_{115}	17.6	X	187.13396	312.87975	50.65757	3.03132	0.2194923	0.27828681	2.3234908	20	3 15.8	21.4
401189 2011 WA_{120}	17.3	X	170.00565	43.94957	4.97825	2.57895	0.2204765	0.28126266	2.3070729	20	4 25.3	21.1
401190 2011 WP_{120}	17.2	X	217.78226	111.84561	250.89809	5.33239	0.1928718	0.28423010	2.2909873	20	4 6.1	20.9
401191 2011 WL_{125}	17.4	X	108.14311	95.78908	308.52304	5.22304	0.1519514	0.26210962	2.4181361	20	2 9.9	20.5
401192 2011 WN_{127}	18.2	X	227.38827	227.97706	85.76460	3.95856	0.2461405	0.27993852	2.3143424	20	2 15.6	22.1
401193 2011 WD_{134}	17.0	X	152.78090	29.81715	91.71031	4.01270	0.0833689	0.17837649	3.1254386	20	7 5.7	21.7
401194 2011 WX_{137}	17.6	X	16.67453	219.11869	222.58119	3.22612	0.0859707	0.23935183	2.5690835	20	—	—
401195 2011 WJ_{139}	16.3	X	191.21662	353.40787	254.82581	11.37363	0.1175013	0.23292237	2.6161456	20	—	—
401196 2011 WO_{139}	16.5	X	295.49941	198.38882	271.49379	8.00382	0.1007135	0.21594959	2.7514891	20	12 15.2	19.8
401197 2011 WQ_{142}	16.6	X	120.96776	191.53484	58.14252	3.48161	0.0137839	0.21936073	2.7228902	20	11 9.3	20.2
401198 2011 WS_{145}	17.1	X	156.99414	80.87800	295.67555	5.57349	0.1452228	0.26746945	2.3857225	20	2 27.2	20.7
401199 2011 WJ_{153}	16.5	X	103.03678	175.63870	119.00048	15.16629	0.1017150	0.22513063	2.6761656	20	12 21.7	20.7
401200 2011 YC_{1}	15.6	X	252.03637	88.99818	297.99375	8.60144	0.0831426	0.17698631	3.1417836	20	6 26.5	20.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
401201 2011 YR_1	16.3	X	259.21960	75.27737	250.20266	24.16449	0.1998969	0.28658888	2.2783993	20	3 19.8	20.4
401202 2011 YD_7	15.9	X	34.23481	331.98834	273.01946	8.40340	0.0720196	0.18180602	3.0860091	20	7 14.9	19.9
401203 2011 YF_7	16.7	X	111.83923	272.89573	58.06789	6.76107	0.1894729	0.24198148	2.5504371	20	—	—
401204 2011 YC_8	17.2	X	282.49059	207.36458	258.82946	5.55489	0.0991241	0.20962029	2.8065999	20	11 17.9	20.5
401205 2011 YE_{13}	16.6	X	298.97108	24.44350	82.19071	7.14138	0.0404180	0.21485914	2.7607908	20	12 19.3	20.0
401206 2011 YU_{19}	16.1	X	250.63481	273.55888	115.99247	13.08387	0.0811264	0.17384776	3.1794841	20	6 28.1	20.8
401207 2011 YN_{20}	16.8	X	19.57954	156.95214	288.60738	14.20861	0.0809728	0.23303476	2.6153044	20	—	—
401208 2011 YA_{25}	16.3	X	88.95366	276.99527	106.96464	15.45004	0.1173948	0.23896873	2.5718285	20	—	—
401209 2011 YO_{26}	15.5	X	146.81599	30.49589	136.56378	16.09082	0.2147305	0.17489892	3.1667319	20	8 30.2	20.9
401210 2011 YD_{32}	15.7	X	267.54735	243.15442	118.09445	12.77575	0.0740987	0.17388623	3.1790150	20	6 14.8	20.3
401211 2011 YL_{37}	17.1	X	40.08654	159.50862	273.77179	2.42991	0.1867549	0.23739892	2.5831536	20	—	—
401212 2011 YZ_{37}	15.6	X	267.56502	256.23723	133.15058	10.78651	0.1139388	0.17757344	3.1348544	20	7 13.6	20.0
401213 2011 YY_{42}	17.4	X	40.92323	16.74874	30.60467	3.01431	0.0998325	0.23356189	2.6113679	20	—	—
401214 2011 YF_{44}	15.5	X	261.32515	259.35832	120.81299	22.74993	0.1337139	0.17711769	3.1402297	20	6 23.9	20.2
401215 2011 YM_{44}	16.9	X	333.74779	286.44184	148.40174	4.03462	0.0756331	0.21539952	2.7561714	20	12 28.8	20.2
401216 2011 YF_{45}	16.4	X	53.92379	255.60302	125.91790	15.85972	0.0449057	0.22405666	2.6847106	20	—	—
401217 2011 YD_{46}	15.7	X	117.54489	98.26046	95.43064	15.17676	0.0811270	0.17772316	3.1330936	20	8 31.5	20.6
401218 2011 YW_{57}	16.7	X	161.00389	65.04434	293.66208	6.87385	0.1878321	0.25721086	2.4487429	20	2 13.5	20.5
401219 2011 YF_{59}	16.7	X	93.37733	248.87713	115.23721	13.05852	0.1202614	0.23206478	2.6225869	20	—	—
401220 2011 YG_{64}	16.0	X	348.24672	256.60878	110.33771	27.75328	0.1682261	0.20105528	2.8857523	20	11 8.9	19.9
401221 2011 YD_{67}	15.8	X	94.19219	140.28130	92.19753	9.60380	0.1124121	0.18133649	3.0913338	20	9 26.0	20.5
401222 2011 YG_{69}	16.2	X	170.40545	229.41338	57.50968	12.91022	0.0849989	0.23952989	2.5678101	20	—	—
401223 2011 YA_{71}	15.7	X	124.16381	84.83506	114.71998	21.46901	0.1223860	0.18440645	3.0569287	20	9 20.5	20.8
401224 2011 YK_{77}	16.7	X	89.79338	217.57175	114.91160	11.63833	0.1144608	0.23377658	2.6097689	20	—	—
401225 2012 AR_4	16.1	X	77.10765	124.32955	271.68454	13.45580	0.1648020	0.23701005	2.5859783	20	—	—
401226 2012 AE_6	17.5	X	265.09374	243.84264	125.09500	6.16714	0.2386778	0.29604799	2.2296052	20	5 30.4	20.6
401227 2012 AN_7	16.0	X	180.25797	288.59917	248.68005	8.10952	0.0255483	0.19725851	2.9226639	20	10 14.2	20.3
401228 2012 AL_8	16.6	X	14.92134	131.90787	305.08854	5.14818	0.0308900	0.22705934	2.6609894	20	—	—
401229 2012 AS_9	16.9	X	118.24433	98.24017	270.79281	7.97043	0.1710548	0.24266841	2.5456218	20	1 13.5	20.2
401230 2012 AN_{13}	16.1	X	254.69388	282.32413	125.57048	10.98061	0.1156236	0.18142076	3.0903765	20	7 21.5	20.4
401231 2012 AK_{14}	16.5	X	259.94788	258.42357	283.62297	6.82821	0.1463402	0.22103372	2.7091332	20	—	—
401232 2012 AC_{17}	15.6	X	249.78046	324.57392	135.90196	17.59165	0.0376258	0.18825070	3.0151689	20	10 8.4	20.1
401233 2012 AW_{18}	15.7	X	126.39869	272.09582	292.13267	9.57369	0.0788328	0.18185577	3.0854463	20	9 13.1	20.5
401234 2012 AM_{23}	16.9	X	73.85141	14.71436	319.36587	5.05623	0.0333641	0.21554894	2.7548975	20	12 28.7	20.7
401235 2012 AH_{24}	15.6	X	92.11930	352.44510	223.69173	8.16401	0.0475892	0.17427791	3.1742502	20	8 17.1	20.3
401236 2012 BH_5	16.1	X	40.09781	306.86618	305.46281	8.89738	0.1271823	0.17045795	3.2214981	20	8 8.6	20.4
401237 2012 BM_6	17.2	X	127.82261	49.19211	320.85601	2.13909	0.1062557	0.24569260	2.5246896	20	1 17.9	20.6
401238 2012 BW_9	15.9	X	217.36117	282.83595	167.00457	10.41488	0.0125601	0.17172867	3.2055865	20	8 9.5	20.5
401239 2012 BA_{18}	15.9	X	222.25809	308.37135	108.58003	17.22711	0.2459298	0.17440988	3.1726488	20	6 18.2	21.4
401240 2012 BR_{20}	16.8	X	54.33716	296.19583	129.77120	15.54513	0.1045045	0.23864861	2.5741278	20	—	—
401241 2012 BQ_{22}	15.9	X	99.98845	301.93474	272.61632	11.16320	0.1270584	0.17671766	3.1449669	20	8 31.6	20.8
401242 2012 BD_{24}	15.8	X	325.37738	324.71482	48.14160	8.82306	0.0657069	0.18448905	3.0560162	20	9 23.9	19.8
401243 2012 BR_{24}	15.9	X	101.06320	79.64076	131.25212	13.77830	0.0876919	0.17734837	3.1375061	20	8 31.9	20.5
401244 2012 BR_{34}	15.9	X	190.86124	217.52034	290.89608	11.17537	0.0623426	0.18260686	3.0769799	20	9 12.9	20.7
401245 2012 BC_{36}	17.4	X	50.74063	101.86922	270.93698	4.38986	0.0291778	0.22007724	2.7169770	20	—	—
401246 2012 BA_{48}	16.2	X	353.81574	108.23736	316.31863	12.67805	0.2010873	0.22095746	2.7097565	20	—	—
401247 2012 BM_{52}	16.7	X	73.96521	268.06921	144.04074	27.92142	0.1513286	0.23768821	2.5810572	20	1 6.8	20.0
401248 2012 BC_{56}	15.5	X	167.90638	35.95388	141.45714	27.82118	0.0488650	0.18110986	3.0939122	20	10 5.7	20.5
401249 2012 BV_{62}	16.8	X	196.26387	357.73497	159.38789	4.44732	0.0240405	0.19396839	2.9556210	20	10 11.7	20.9
401250 2012 BE_{63}	17.0	X	171.79692	17.11371	251.10325	3.92785	0.0694108	0.22073797	2.7115525	20	—	—
401251 2012 BW_{73}	16.2	X	110.97098	315.32942	259.62621	3.34459	0.0749886	0.18051412	3.1007156	20	9 12.1	20.8
401252 2012 BB_{78}	18.0	X	256.27395	101.50479	279.91675	3.91210	0.2208877	0.29444164	2.2377071	20	6 7.5	21.1
401253 2012 BY_{79}	16.5	X	25.07389	335.66873	321.10317	9.49433	0.0564221	0.18182263	3.0858212	20	9 4.6	20.7
401254 2012 BW_{84}	15.8	X	40.85628	3.98524	320.20076	10.83569	0.1318233	0.19671451	2.9280498	20	11 11.6	20.0
401255 2012 BD_{88}	15.9	X	173.51763	155.94644	354.15988	8.34601	0.0339638	0.17504199	3.1650062	20	9 2.9	20.5
401256 2012 BH_{88}	16.5	X	224.52130	62.23161	39.71112	3.46484	0.0551181	0.18507056	3.0496114	20	9 2.1	20.8
401257 2012 BW_{90}	16.4	X	17.75218	278.67876	133.43113	17.80007	0.0940773	0.21823629	2.7322351	20	—	—
401258 2012 BH_{92}	16.1	X	25.90976	223.92957	137.28209	16.06467	0.1522141	0.20346950	2.8628802	20	12 18.4	20.1
401259 2012 BG_{93}	16.3	X	50.68642	183.57849	115.56473	10.45212	0.1181701	0.18907060	3.0064458	20	10 28.9	20.6
401260 2012 BJ_{99}	16.0	X	265.51809	254.80368	128.48786	15.91707	0.0918408	0.17233956	3.1980069	20	7 6.7	20.6
401261 2012 BK_{105}	15.6	X	112.94702	309.39284	259.36567	8.17481	0.0422423	0.17526333	3.1623408	20	8 31.4	20.3
401262 2012 BV_{110}	15.6	X	173.43943	182.64139	329.21319	9.95565	0.0695882	0.17842063	3.1249231	20	9 2.1	20.3
401263 2012 BD_{112}	15.8	X	311.64719	87.42856	319.40079	7.72261	0.0857432	0.19209132	2.9748442	20	10 9.6	19.6
401264 2012 BA_{123}	16.0	X	58.46978	155.57558	129.10817	13.34992	0.1816828	0.18417443	3.0594956	20	10 29.4	20.6
401265 2012 BR_{130}	15.6	X	354.21543	295.50991	48.42166	9.68082	0.0970754	0.18641086	3.0349759	20	10 1.1	19.4
401266 2012 BZ_{131}	15.7	X	164.16946	246.34671	267.44373	9.90708	0.1216840	0.17873421	3.1212671	20	8 22.2	20.8
401267 2012 BF_{133}	15.5	X	242.19459	277.03797	141.48248	12.69252	0.1442617	0.17688615	3.1429694	20	7 16.3	20.3
401268 2012 BG_{143}	16.3	X	91.14566	19.11558	232.41741	9.66139	0.0729214	0.18781213	3.0198610	20	10 4.6	20.8
401269 2012 BE_{144}	15.5	X	104.92614	328.39181	266.61535	12.51064	0.1937244	0.18223566	3.0811569	20	10 6.9	20.8
401270 2012 CY_9	15.7	X	275.53133	273.30865	147.98583	10.74900	0.0089070	0.18334415	3.0687253	20	9 21.3	20.0
401271 2012 CX_{10}	15.7	X	352.97640	341.55312	329.05249	10.21771	0.0531787	0.17115763	3.2127125	20	8 9.6	19.8
401272 2012 CG_{11}	16.2	X	355.54056	25.75790	332.76988	9.55379	0.0825791	0.19028596	2.9936307	20	10 13.4	20.1
401273 2012 CY_{14}	16.2	X	22.89672	347.56781	322.48400	9.78158	0.0490503	0.17994949	3.1071983	20	9 16.4	20.5
401274 2012 CY_{24}	15.7	X	2.32278	65.17985	262.38396	6.59509	0.1580693	0.17862650	3.1225216	20	9 17.6	19.5
401275 2012 CO_{25}	16.5	X	208.63407	278.90858	198.77984	4.64761	0.0969084	0.17998464	3.1067938	20	8 26.9	21.3
401276 2012 CX_{38}	15.8	X	207.81686	351.99390	138.58094	10.37615	0.0245735	0.18507961	3.0495119	20	9 22.8	20.2
401277 2012 CG_{41}	15.5	X	308.58885	76.80212	317.37692	10.85419	0.0802730	0.18701550	3.0284308	20	9 17.2	19.6
401278 2012 CL_{41}	17.1	X	53.37737	89.14539	326.27070	7.49135	0.1510216	0.23295505	2.6159009	20	—	—
401279 2012 CD_{45}	15.6	X	311.63194	229.94667	153.10643	16.34376	0.0512434	0.17823600	3.1270807	20	9 14.8	19.8
401280 2012 CX_{52}	16.0	X	259.98425	346.91719	116.96836	11.78422	0.0947106	0.19236737	2.9719976	20	10 17.8	20.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
401281 2012 CU_{53}	15.5	X	238.10465	317.77235	122.18463	12.49349	0.0332355	0.17761342	3.1343840	20	8 24.2	20.0
401282 2012 DD_{5}	16.1	X	6.23566	193.14069	152.24842	11.47639	0.0958310	0.18578721	3.0417639	20	10 20.9	20.1
401283 2012 DN_{11}	16.0	X	116.67252	274.47779	294.96691	8.22230	0.0332921	0.18214337	3.0821976	20	9 6.1	20.6
401284 2012 DC_{19}	15.6	X	130.03864	283.12885	268.33284	10.11550	0.0829405	0.17278760	3.1924762	20	8 31.4	20.6
401285 2012 DZ_{26}	15.4	X	89.05662	271.45139	357.86330	15.47601	0.0755300	0.17995735	3.1071078	20	10 20.5	20.1
401286 2012 DE_{32}	15.7	X	251.63065	283.09691	169.45674	15.90610	0.0973134	0.18116230	3.0933152	20	9 15.5	20.1
401287 2012 DA_{41}	15.7	X	307.95006	280.35199	105.49697	11.27222	0.1171360	0.17943619	3.1131212	20	9 9.7	19.7
401288 2012 DU_{44}	15.9	X	177.40074	70.34619	143.44802	9.54901	0.0590420	0.18732665	3.0250764	20	11 25.4	20.6
401289 2012 DB_{55}	16.0	X	75.85767	182.26145	129.44569	16.38757	0.1388127	0.20497548	2.8488403	20	12 14.9	20.5
401290 2012 DH_{57}	16.2	X	149.60816	24.47731	275.18790	2.63419	0.0786906	0.21263322	2.7800246	20	—	—
401291 2012 DU_{62}	15.8	X	106.53635	336.84272	3.82104	9.05412	0.1561780	0.21252351	2.7809813	20	—	—
401292 2012 DA_{80}	16.2	X	324.63789	287.69043	129.57528	2.91789	0.1017571	0.19581471	2.9370128	20	11 17.8	19.6
401293 2012 DF_{80}	15.1	X	304.53464	309.47076	358.25982	9.33134	0.0751907	0.14673050	3.5600474	20	5 22.3	20.1
401294 2012 DZ_{92}	17.2	X	95.49271	189.34216	163.13402	3.62467	0.1002299	0.21459848	2.7630259	20	—	—
401295 2012 FR	15.5	X	111.66552	101.16281	147.47512	13.74130	0.0572753	0.17984422	3.1084107	20	10 28.5	20.3
401296 2012 FW_{31}	15.8	X	278.53303	15.62881	52.74252	10.14885	0.0937810	0.17621897	3.1508975	20	9 24.5	20.1
401297 2012 FN_{42}	15.4	X	193.98712	174.28673	314.63070	12.21391	0.0811178	0.17020551	3.2246825	20	8 24.5	20.3
401298 2012 FW_{81}	15.8	X	218.03196	24.12874	113.86052	11.35826	0.2026246	0.18397993	3.0616514	20	9 27.5	20.9
401299 2012 GF_{34}	15.8	X	193.56270	279.04050	211.59247	10.59585	0.1329098	0.17006047	3.2265158	20	8 22.1	21.1
401300 2012 HQ_{31}	14.9	X	34.25485	342.09827	184.16592	4.09760	0.1530211	0.12424980	3.9774578	20	4 15.1	19.7
401301 2012 TE_{20}	18.1	X	249.67190	224.01355	238.80229	20.07281	0.1058612	0.37556803	1.9025831	20	11 1.2	19.6
401302 2012 TR_{187}	16.4	X	275.72453	353.35258	48.68687	13.69168	0.1583124	0.22669469	2.6638422	20	8 14.4	20.1
401303 2012 UR_{127}	17.8	X	344.63894	174.99070	185.99352	21.98168	0.0782814	0.37093625	1.9183884	20	11 21.5	19.9
401304 2012 UU_{127}	17.4	X	91.16559	343.04210	235.73193	20.18820	0.0563581	0.35700071	1.9679920	20	9 5.7	20.3
401305 2012 WU_{4}	17.1	X	249.56222	311.38825	251.00584	6.15260	0.0666915	0.27259071	2.3557472	20	—	—
401306 2012 WK_{24}	17.2	X	296.36962	114.70588	58.52273	6.94388	0.0850207	0.27584936	2.3371580	20	—	—
401307 2012 XM_{34}	17.7	X	278.81995	320.65606	248.03674	5.15435	0.1411703	0.27790646	2.3256104	20	—	—
401308 2012 XP_{51}	17.0	X	310.07352	316.86364	211.92561	12.23870	0.0994056	0.27318619	2.3523227	20	—	—
401309 2012 XS_{55}	17.4	X	180.10223	241.49897	294.90066	17.90178	0.0593703	0.36240359	1.9483833	20	11 7.2	20.0
401310 2012 XT_{80}	17.7	X	350.53922	2.94051	191.30280	7.18689	0.0830173	0.30279067	2.1963812	20	2 13.2	19.9
401311 2012 XT_{142}	17.8	X	234.85217	4.55895	101.87276	24.88653	0.0795695	0.35762469	1.9657022	20	10 30.5	20.5
401312 2012 XQ_{151}	17.6	X	313.61905	318.26217	223.35894	4.85001	0.1745099	0.26851070	2.3795508	20	—	—
401313 2012 XK_{156}	16.0	X	166.99703	279.45069	257.42193	10.33176	0.2329632	0.21706912	2.7420204	20	9 23.4	21.0
401314 2012 YK_{1}	16.3	X	124.44744	106.71187	136.41366	10.06608	0.1025852	0.21661159	2.7458802	20	11 11.9	20.7
401315 2013 AB_{1}	17.7	X	28.83987	82.03394	295.25147	17.43538	0.0841062	0.37982126	1.8883531	20	—	—
401316 2013 AU_{6}	16.0	X	247.27668	10.92637	89.01533	22.96244	0.0139902	0.22793164	2.6541959	20	10 21.8	20.1
401317 2013 AQ_{8}	16.8	X	190.18874	128.85949	86.65279	9.87072	0.1106450	0.23838182	2.5760481	20	12 14.9	20.6
401318 2013 AE_{11}	17.0	X	213.90601	57.72853	130.54879	9.21266	0.2303888	0.22710947	2.6605977	20	11 23.6	21.3
401319 2013 AP_{15}	15.1	X	57.73874	282.90352	284.55631	24.36471	0.2149044	0.17810005	3.1286719	20	7 18.5	19.4
401320 2013 AR_{18}	16.6	X	218.40486	38.42832	115.33997	22.37809	0.1131326	0.22519224	2.6756775	20	11 6.5	20.9
401321 2013 AA_{22}	15.6	X	13.73751	145.00540	89.83694	11.49871	0.0454492	0.17797936	3.1300861	20	6 1.4	19.7
401322 2013 AH_{22}	15.7	X	207.53936	254.92168	130.81936	12.66922	0.1054247	0.17462236	3.1700746	20	5 9.4	20.8
401323 2013 AY_{22}	17.1	X	269.89405	149.53741	134.11804	6.32990	0.1951264	0.28642126	2.2792880	20	2 16.6	20.4
401324 2013 AD_{33}	16.3	X	293.34627	16.42490	105.62727	28.27745	0.1288145	0.24236991	2.5477115	20	—	—
401325 2013 AK_{39}	17.4	X	22.04940	80.67403	118.90981	7.74087	0.0542276	0.30190638	2.2006680	20	4 24.8	19.7
401326 2013 AR_{40}	16.7	X	91.20053	353.21861	293.69331	8.57174	0.1596547	0.22450792	2.6811119	20	12 3.1	21.0
401327 2013 AG_{52}	16.4	X	297.33088	6.02820	74.28649	15.47853	0.1532668	0.23542764	2.5975530	20	11 13.2	19.2
401328 2013 AT_{54}	17.5	X	304.35358	78.16381	106.70697	5.80031	0.1299332	0.26605700	2.3941586	20	—	—
401329 2013 AD_{55}	16.9	X	88.39741	134.00006	74.35578	9.53713	0.1351326	0.19537408	2.9414270	20	8 23.7	21.3
401330 2013 AU_{55}	16.6	X	58.47409	245.65583	97.56498	16.17825	0.1766650	0.24580540	2.5239172	20	—	—
401331 2013 AD_{58}	17.2	X	242.84907	132.93670	89.98770	3.10098	0.1341757	0.25472296	2.4646617	20	—	—
401332 2013 AW_{58}	17.3	X	136.72748	66.54615	295.39192	7.00305	0.1296422	0.27564829	2.3382943	20	1 16.4	20.3
401333 2013 AL_{68}	15.7	X	101.86062	228.70616	287.83575	15.47591	0.1557450	0.17918555	3.1160235	20	7 2.2	20.3
401334 2013 AA_{73}	17.5	X	5.71803	307.55207	111.13110	24.19257	0.1101307	0.38402940	1.8745329	20	—	—
401335 2013 AA_{75}	17.8	X	342.60729	276.50382	320.95435	5.18253	0.1126199	0.29832680	2.2182366	20	4 1.7	19.8
401336 2013 AU_{78}	16.8	X	236.65452	30.49022	270.55753	10.78076	0.0805142	0.28769954	2.2725316	20	2 8.1	20.2
401337 2013 AM_{83}	16.2	X	257.43140	193.62012	262.25737	11.05873	0.1410309	0.22354948	2.6887697	20	9 20.5	20.0
401338 2013 AU_{83}	17.2	X	5.65131	59.80622	89.98814	3.83092	0.0771407	0.27630931	2.3345636	20	1 13.1	19.5
401339 2013 AE_{85}	18.0	X	128.36945	279.83795	62.93693	2.38854	0.0339856	0.26733884	2.3864994	20	—	—
401340 2013 AF_{89}	16.7	X	105.70386	103.44162	91.07455	8.59653	0.0676724	0.19686398	2.9265675	20	8 16.6	21.0
401341 2013 AH_{89}	17.0	X	238.19466	60.08540	82.76789	6.97681	0.0516420	0.22928651	2.6437297	20	11 17.4	20.4
401342 2013 AU_{93}	17.0	X	189.75840	13.04182	151.76610	1.90586	0.0901734	0.21674886	2.7447208	20	10 11.2	21.0
401343 2013 AK_{100}	16.3	X	151.66557	271.02904	309.30780	13.83636	0.2610121	0.21710966	2.7416790	20	11 1.1	21.5
401344 2013 AY_{101}	17.5	X	359.42708	103.17810	72.72231	8.01533	0.0672782	0.28469545	2.2884901	20	2 11.8	20.0
401345 2013 AJ_{103}	15.7	X	264.84717	245.49067	95.56973	10.74136	0.0957067	0.17802990	3.1294937	20	5 15.5	20.3
401346 2013 AL_{104}	16.3	X	100.77328	17.87122	125.57062	12.63356	0.2304341	0.17675022	3.1445806	20	6 23.3	21.3
401347 2013 AY_{118}	16.5	X	209.94461	52.65500	90.27269	9.50718	0.1231595	0.21777937	2.7360554	20	10 7.2	20.7
401348 2013 AN_{119}	17.9	X	336.97483	292.91263	296.59664	5.30033	0.1216221	0.29818069	2.2189612	20	3 8.7	20.2
401349 2013 AG_{120}	16.9	X	160.29954	72.24221	116.09909	5.86836	0.0932384	0.21297176	2.7770777	20	10 11.0	21.2
401350 2013 AZ_{123}	17.8	X	294.71500	123.33634	65.90940	3.40518	0.1311778	0.26264024	2.4148781	20	—	—
401351 2013 AG_{147}	16.5	X	130.18712	340.56149	239.89266	12.91679	0.0660642	0.21787211	2.7352790	20	10 13.2	20.7
401352 2013 AY_{149}	16.5	X	134.81448	1.76478	253.14825	12.03297	0.1265273	0.23107347	2.6300822	20	12 5.6	20.7
401353 2013 AF_{166}	17.3	X	158.57487	114.44405	136.61770	27.58025	0.1456590	0.23678924	2.5875857	20	12 26.8	21.8
401354 2013 BR_{4}	16.5	X	305.65457	296.35536	130.33080	22.57958	0.0419125	0.22939796	2.6428734	20	11 19.1	20.4
401355 2013 BX_{9}	16.8	X	235.49961	52.31176	106.45833	13.49399	0.0994527	0.23388625	2.6089530	20	11 29.9	20.4
401356 2013 BT_{21}	17.1	X	258.52798	283.06457	326.99192	2.75755	0.1131166	0.27421736	2.3464218	20	1 1.8	20.6
401357 2013 BD_{23}	16.3	X	314.95249	280.64247	237.12662	12.26311	0.0784106	0.26016599	2.4301647	20	—	—
401358 2013 BM_{24}	16.9	X	251.12417	193.74488	293.98615	3.40219	0.0545101	0.23013428	2.6372330	20	11 12.3	20.4
401359 2013 BK_{32}	17.9	X	310.67292	216.75447	20.41550	5.04134	0.0684891	0.28961592	2.2624957	20	2 22.6	20.5
401360 2013 BE_{37}	17.6	X	312.89069	298.80059	294.52180	6.11068	0.0596033	0.28975446	2.2617745	20	2 17.5	20.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
401361 2013 BD_{39}	18.4	X	346.06937	302.57251	259.49220	2.38483	0.0550973	0.28899181	2.2657519	20	2 24.3	20.8
401362 2013 BO_{39}	17.4	X	254.33245	334.90150	239.87969	1.86502	0.1622089	0.25449659	2.4661230	20	—	—
401363 2013 BZ_{39}	17.0	X	166.91940	97.55568	133.12387	8.07118	0.0781423	0.23005125	2.6378675	20	12 10.5	20.9
401364 2013 BF_{43}	16.7	X	127.87069	169.01548	110.22661	8.88325	0.1159139	0.23551607	2.5969028	20	12 29.1	20.6
401365 2013 BM_{45}	17.7	X	42.07140	266.89426	118.90276	24.46164	0.1526236	0.38497364	1.8714665	20	—	—
401366 2013 BF_{60}	16.5	X	205.51428	31.14277	112.11062	14.25769	0.0438758	0.21439848	2.7647440	20	10 12.4	20.7
401367 2013 BZ_{60}	17.5	X	261.06826	192.43214	31.67341	1.88620	0.1356221	0.25859064	2.4400245	20	—	—
401368 2013 BO_{63}	16.6	X	158.51260	286.64100	322.19162	10.29313	0.1678313	0.22701024	2.6613730	20	12 18.4	21.0
401369 2013 BP_{63}	17.7	X	331.92513	110.36072	130.14148	6.63047	0.0367071	0.29465770	2.2366130	20	4 4.7	20.2
401370 2013 BM_{66}	17.3	X	255.94581	175.96939	122.94003	9.77331	0.1944486	0.29550665	2.2323273	20	2 22.9	20.6
401371 2013 BR_{66}	17.9	X	316.01664	287.63949	280.93868	3.81768	0.1684956	0.27718708	2.3296324	20	1 6.0	20.7
401372 2013 BE_{70}	17.0	X	300.64363	113.85915	291.43213	16.82980	0.1156414	0.35351973	1.9808896	20	10 21.9	19.0
401373 2013 BC_{76}	17.7	X	27.46057	228.55484	331.71596	5.23062	0.0749134	0.30011234	2.2094295	20	4 29.7	20.0
401374 2013 BR_{77}	17.6	X	269.27974	218.77008	23.94158	1.50717	0.1466780	0.27057232	2.3674481	20	1 1.5	21.2
401375 2013 CC	18.0	X	352.65828	294.35762	110.82350	23.11812	0.1059133	0.37244184	1.9132148	20	—	—
401376 2013 CE	17.5	X	85.49757	236.16000	179.35613	5.40418	0.0815047	0.27546021	2.3393586	20	1 9.5	20.2
401377 2013 CN_{5}	16.6	X	319.09564	150.35154	282.10234	7.52672	0.0536598	0.23331398	2.6132174	20	12 8.4	19.7
401378 2013 CL_{8}	17.5	X	312.28029	64.79207	157.59336	2.86025	0.1031478	0.28038569	2.3118811	20	1 28.7	20.3
401379 2013 CY_{11}	17.6	X	239.82877	172.27920	92.90549	4.22819	0.0693532	0.26869048	2.3784892	20	1 3.9	20.7
401380 2013 CH_{18}	16.7	X	234.25473	40.78784	137.23068	8.81451	0.1302304	0.22901486	2.6458199	20	12 15.2	20.4
401381 2013 CO_{18}	17.4	X	302.13964	112.25707	73.13384	3.05043	0.1092322	0.25671999	2.4518633	20	—	—
401382 2013 CV_{19}	15.8	X	153.89986	98.82966	62.36291	17.63450	0.1047754	0.19762656	2.9190342	20	9 5.8	20.7
401383 2013 CC_{24}	17.2	X	333.39034	169.46682	349.13558	6.54468	0.1212930	0.26260260	2.4151088	20	—	—
401384 2013 CV_{26}	16.8	X	267.47645	277.09337	313.89360	14.23089	0.1047888	0.26457445	2.4030941	20	—	—
401385 2013 CO_{28}	17.0	X	25.85158	255.37120	128.82223	12.07316	0.2055341	0.23576394	2.5950823	20	—	—
401386 2013 CM_{32}	17.7	X	281.54418	161.01997	84.68845	3.53293	0.1553816	0.26727642	2.3868710	20	1 17.8	21.1
401387 2013 CT_{32}	15.9	X	311.47822	343.15468	110.62140	30.58233	0.0869637	0.23439621	2.6051676	20	12 28.2	19.0
401388 2013 CH_{33}	17.2	X	345.04693	2.45681	235.76205	6.48113	0.1105320	0.29613204	2.2291833	20	4 8.9	19.4
401389 2013 CB_{34}	17.1	X	169.99552	280.61432	317.26839	12.70966	0.2198846	0.22632342	2.6667546	20	12 12.4	21.8
401390 2013 CT_{37}	16.1	X	103.36028	310.24639	214.33029	13.90125	0.1635769	0.17889790	3.1193628	20	7 11.2	21.1
401391 2013 CD_{38}	16.7	X	197.61910	262.58252	298.96629	9.12411	0.1540167	0.22591529	2.6699654	20	11 27.6	20.8
401392 2013 CN_{38}	15.8	X	187.24448	318.13679	279.58318	16.73613	0.1500544	0.23589345	2.5941323	20	—	—
401393 2013 CN_{43}	17.3	X	280.85505	135.44702	104.96417	7.04677	0.1037776	0.27245695	2.3565181	20	1 15.1	20.4
401394 2013 CP_{43}	17.8	X	233.09062	268.70092	47.43224	4.44407	0.0549249	0.28717373	2.2753048	20	3 3.1	20.7
401395 2013 CN_{44}	16.5	X	50.89578	284.23656	338.02559	10.26014	0.0518075	0.19650271	2.9301534	20	8 30.0	20.2
401396 2013 CR_{45}	17.1	X	218.26741	150.72939	127.56833	7.17761	0.1006773	0.26289367	2.4133258	20	—	—
401397 2013 CR_{49}	17.2	X	350.91654	44.59702	5.82538	4.46243	0.1411004	0.23555017	2.5966521	20	—	—
401398 2013 CU_{50}	17.9	X	319.16410	322.68788	274.48361	4.88752	0.0670905	0.29039862	2.2584285	20	3 1.1	20.6
401399 2013 CR_{51}	17.1	X	161.25139	277.11030	327.77228	2.22198	0.1538152	0.22681045	2.6629357	20	12 16.4	21.5
401400 2013 CK_{54}	17.3	X	353.65559	259.74639	268.08275	5.05924	0.1185115	0.27492446	2.3423968	20	1 13.4	19.6
401401 2013 CL_{57}	16.0	X	69.81412	24.50915	214.73743	9.15773	0.1025827	0.19280497	2.9674989	20	8 28.5	20.4
401402 2013 CY_{57}	15.7	X	24.43345	102.60569	169.66329	17.06053	0.2097286	0.18037710	3.1022857	20	8 22.0	19.3
401403 2013 CK_{61}	15.9	X	49.92556	309.64819	304.87008	7.60228	0.0471449	0.19028376	2.9936537	20	8 15.7	20.0
401404 2013 CX_{61}	17.5	X	275.89862	158.87578	94.27291	3.07902	0.1882239	0.26921156	2.3754191	20	1 17.6	21.0
401405 2013 CA_{63}	16.3	X	25.72892	34.26183	300.12315	13.31425	0.0641589	0.21733107	2.7398167	20	10 27.9	20.3
401406 2013 CG_{63}	17.3	X	282.56971	236.64266	221.67121	4.99065	0.1716771	0.22945519	2.6424339	20	11 3.8	20.2
401407 2013 CL_{64}	16.9	X	41.67389	67.69526	271.48745	4.08033	0.0732181	0.22521590	2.6754901	20	12 2.9	20.5
401408 2013 CP_{64}	16.8	X	316.05171	273.07311	151.76743	12.54773	0.1463346	0.23046984	2.6346726	20	11 25.6	19.8
401409 2013 CO_{65}	16.9	X	165.38566	38.40220	168.30281	5.26140	0.0448255	0.21837707	2.7310607	20	11 9.2	20.8
401410 2013 CT_{65}	16.2	X	71.94138	221.33701	309.30951	7.60539	0.1147151	0.16885531	3.2418498	20	6 6.9	20.8
401411 2013 CR_{66}	16.2	X	58.37663	277.92823	323.41463	6.74187	0.0328317	0.18886078	3.0086721	20	8 9.3	20.1
401412 2013 CF_{67}	18.3	X	27.78697	236.08262	252.48386	2.05888	0.1763617	0.27570834	2.3379548	20	1 14.8	19.9
401413 2013 CB_{69}	17.7	X	293.10711	308.40931	304.67085	5.55039	0.0853385	0.28231038	2.3013613	20	2 15.5	20.5
401414 2013 CD_{70}	16.7	X	122.63226	135.05299	110.00744	4.75612	0.0305569	0.21644898	2.7472553	20	11 7.4	20.5
401415 2013 CP_{72}	16.9	X	183.25678	25.01341	147.58720	12.54939	0.0672136	0.21776112	2.7362083	20	10 19.2	21.1
401416 2013 CO_{73}	17.3	X	15.70104	306.40989	128.62830	2.10415	0.0524896	0.25935770	2.4352111	20	—	—
401417 2013 CP_{74}	16.8	X	175.71087	304.93988	306.78422	11.21829	0.2506637	0.22915796	2.6447183	20	—	—
401418 2013 CJ_{75}	16.3	X	283.76951	56.04622	31.78398	17.62909	0.1107698	0.22435875	2.6823001	20	10 28.5	19.3
401419 2013 CP_{77}	16.9	X	322.48484	258.89125	270.58198	6.02707	0.0614777	0.26463777	2.4027108	20	—	—
401420 2013 CJ_{81}	16.7	X	32.74156	28.94899	217.47409	7.98813	0.1218515	0.17875258	3.1210532	20	7 19.2	20.8
401421 2013 CM_{81}	17.1	X	194.11022	53.71882	214.00348	7.51291	0.2651683	0.24194636	2.5506840	20	—	—
401422 2013 CX_{81}	17.0	X	299.68458	170.07674	237.51259	5.71893	0.0272050	0.21114785	2.7930472	20	10 3.4	20.8
401423 2013 CX_{82}	17.3	X	236.13974	279.40880	301.39099	4.19954	0.0514660	0.24738915	2.5131338	20	—	—
401424 2013 CR_{85}	16.6	X	189.69270	129.15914	18.79060	5.02926	0.0991277	0.21310353	2.7759328	20	9 19.4	20.7
401425 2013 CB_{86}	16.2	X	137.31223	169.69932	95.94142	4.38531	0.0782876	0.22096203	2.7097192	20	12 19.1	20.1
401426 2013 CT_{95}	16.8	X	70.47536	327.07105	321.80629	9.27724	0.0952118	0.21270224	2.7794232	20	11 1.5	20.9
401427 2013 CW_{98}	16.5	X	78.45339	291.49153	317.03941	6.89978	0.0467604	0.20074184	2.8887555	20	9 14.2	20.6
401428 2013 CO_{101}	16.7	X	106.09604	117.12055	145.41382	6.19950	0.0222075	0.21820584	2.7324893	20	11 9.6	20.5
401429 2013 CE_{104}	17.0	X	106.83889	219.24259	73.51779	3.75494	0.0482187	0.22941630	2.6427325	20	12 20.3	20.7
401430 2013 CE_{107}	16.7	X	126.18949	118.82449	133.88013	3.91682	0.0432868	0.22061149	2.7125888	20	11 21.7	20.6
401431 2013 CX_{107}	17.4	X	250.48832	54.52664	146.84101	11.92567	0.0925882	0.24518360	2.5281826	20	—	—
401432 2013 CS_{108}	17.4	X	200.95110	325.79318	345.36439	7.84184	0.0656149	0.26965663	2.3728046	20	1 20.9	20.8
401433 2013 CN_{110}	16.4	X	157.09763	351.38451	129.68416	13.70658	0.1544042	0.18640712	3.0350164	20	7 11.8	21.3
401434 2013 CX_{110}	15.6	X	328.61831	187.02842	133.11829	17.09457	0.2343880	0.18582059	3.0413997	20	7 1.2	18.9
401435 2013 CL_{111}	17.6	X	261.83831	141.27063	113.38310	7.11792	0.0723925	0.27121525	2.3637052	20	1 14.8	20.7
401436 2013 CE_{116}	15.7	X	15.52903	183.73859	125.49171	6.70313	0.0503965	0.19748952	2.9203844	20	9 13.7	19.5
401437 2013 CJ_{122}	17.5	X	281.46608	39.65971	152.13378	1.68719	0.1270739	0.25324244	2.4742584	20	—	—
401438 2013 CT_{123}	17.1	X	207.16358	225.44274	350.44603	6.70258	0.1488438	0.23057112	2.6339009	20	12 28.1	20.9
401439 2013 CP_{126}	17.9	X	196.18058	237.62806	135.72770	7.42825	0.1822841	0.30140427	2.2031114	20	4 4.8	21.4
401440 2013 CJ_{130}	17.7	X	66.65923	328.01232	159.28960	7.58456	0.0526702	0.28621045	2.2804071	20	3 18.9	20.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
401441 2013 CE_{131}	16.1	X	144.22928	172.95297	309.52223	4.63466	0.0857536	0.17906443	3.1174285	20	6 28.0	20.9
401442 2013 CM_{131}	17.7	X	271.22462	340.69431	297.17428	2.36132	0.1801842	0.27658960	2.3329861	20	2 12.1	20.9
401443 2013 CH_{132}	15.7	X	34.98280	348.57574	241.66467	6.33685	0.0714797	0.17125242	3.2115270	20	6 26.5	20.0
401444 2013 CT_{134}	16.1	X	276.84898	201.22864	151.33788	12.01520	0.0784244	0.17753944	3.1352546	20	6 14.9	20.7
401445 2013 CJ_{135}	17.3	X	187.55606	130.31744	97.07894	4.87276	0.0851153	0.24054428	2.5605859	20	12 29.8	20.8
401446 2013 CY_{135}	13.4	X	330.08246	276.95491	117.22546	24.25469	0.0419187	0.08281987	5.2125032	20	10 16.1	20.4
401447 2013 CG_{137}	16.9	X	278.36977	296.00005	158.87839	9.06329	0.1507384	0.22203971	2.7009442	20	10 27.3	20.2
401448 2013 CH_{137}	17.0	X	240.18604	48.04673	169.85110	5.60164	0.0982617	0.24449042	2.5329590	20	—	—
401449 2013 CJ_{137}	17.2	X	281.47759	52.57237	166.01780	5.80657	0.0764018	0.26103893	2.4247438	20	—	—
401450 2013 CR_{138}	16.7	X	19.43903	208.27311	145.72548	6.92621	0.0343150	0.21968413	2.7202173	20	11 18.3	20.3
401451 2013 CE_{139}	17.7	X	29.22932	90.41906	351.60293	6.34357	0.0882714	0.26764553	2.3846760	20	—	—
401452 2013 CL_{139}	16.3	X	294.18741	274.35773	110.34488	4.00652	0.0319717	0.19531932	2.9419768	20	8 27.5	20.3
401453 2013 CL_{147}	16.8	X	256.22373	336.24231	135.80721	6.61860	0.0600809	0.21761327	2.7374475	20	10 30.2	20.5
401454 2013 CE_{152}	16.8	X	5.39216	271.88494	140.07662	16.92555	0.1020749	0.23914811	2.5705423	20	—	—
401455 2013 CL_{156}	16.8	X	157.21204	133.41792	142.84787	7.37558	0.1894948	0.23100626	2.6305924	20	—	—
401456 2013 CA_{160}	16.2	X	208.44559	89.76009	346.38600	9.10431	0.0421927	0.18359477	3.0659320	20	7 13.6	20.7
401457 2013 CW_{161}	17.2	X	203.06980	1.23574	346.58806	6.69402	0.1409824	0.28225890	2.3016412	20	3 7.6	20.7
401458 2013 CM_{162}	15.3	X	47.53553	83.00535	161.84305	25.85142	0.2563767	0.17326331	3.1866301	20	8 30.4	19.4
401459 2013 CG_{164}	17.0	X	179.97225	272.12683	325.58816	2.94745	0.1262970	0.22566188	2.6719639	20	12 27.3	20.9
401460 2013 CE_{165}	17.7	X	224.41657	97.81635	165.80250	2.27080	0.1299995	0.25111317	2.4882254	20	—	—
401461 2013 CJ_{166}	16.1	X	10.02056	317.57647	15.18400	6.82914	0.0705868	0.20300886	2.8672092	20	10 7.3	19.8
401462 2013 CJ_{169}	17.3	X	33.35422	60.94147	34.58653	4.61964	0.0060899	0.26246586	2.4159476	20	—	—
401463 2013 CN_{169}	17.1	X	263.21636	207.60932	75.44953	3.53157	0.0744441	0.28202119	2.3029344	20	2 22.6	20.0
401464 2013 CC_{170}	17.1	X	338.14926	268.17579	164.43495	8.88044	0.0870663	0.23581974	2.5946729	20	—	—
401465 2013 CP_{172}	16.8	X	274.85697	281.04739	160.90130	6.50437	0.0190510	0.21136989	2.7910908	20	10 19.7	20.5
401466 2013 CQ_{173}	16.3	X	19.40252	127.90846	150.12183	1.17045	0.1638335	0.18031946	3.1029468	20	8 16.4	19.9
401467 2013 CZ_{173}	17.2	X	247.63342	136.09083	157.07379	6.72557	0.1099546	0.27517158	2.3409942	20	2 13.3	20.4
401468 2013 CS_{174}	16.7	X	316.95482	150.14617	270.74593	1.90082	0.0945515	0.22099301	2.7094659	20	11 15.9	19.9
401469 2013 CJ_{175}	17.2	X	238.26725	255.80528	310.72453	3.83376	0.1249312	0.23845905	2.5754919	20	—	—
401470 2013 CE_{182}	16.1	X	124.61949	330.89559	298.99805	8.20055	0.1181011	0.21954257	2.7213865	20	12 11.6	20.4
401471 2013 CA_{183}	17.8	X	87.29146	275.36647	96.81387	6.97558	0.0566841	0.25644509	2.4536152	20	—	—
401472 2013 CQ_{183}	16.8	X	300.25907	287.27677	167.88201	10.79945	0.1665989	0.23163247	2.6258491	20	12 5.8	19.7
401473 2013 CY_{187}	16.6	X	197.40793	322.88922	135.21838	11.00699	0.0659776	0.19239796	2.9716825	20	7 25.3	21.0
401474 2013 CG_{190}	17.9	X	164.96438	183.74282	259.25724	4.05581	0.0571956	0.30989877	2.1626662	20	5 30.6	20.7
401475 2013 CE_{192}	17.1	X	279.88508	95.69282	104.74506	8.57086	0.1571026	0.25636541	2.4541236	20	—	—
401476 2013 CP_{194}	17.6	X	296.00087	70.79660	24.08818	2.40708	0.0365733	0.22894201	2.6463811	20	12 3.8	21.0
401477 2013 CU_{195}	16.8	X	67.80283	160.92049	33.96922	1.27399	0.1116226	0.17425731	3.1745003	20	7 2.9	21.0
401478 2013 CG_{196}	16.3	X	75.64192	75.20406	130.97175	11.80942	0.0234527	0.18303709	3.0721563	20	7 14.7	20.6
401479 2013 CJ_{198}	15.9	X	359.40178	316.50660	341.57452	9.41694	0.0901150	0.18279412	3.0748780	20	8 6.1	19.7
401480 2013 CM_{204}	17.5	X	253.63879	177.21339	107.61747	7.59582	0.1288970	0.27978093	2.3152113	20	2 8.9	20.9
401481 2013 CT_{204}	17.0	X	90.31739	98.13631	86.10038	2.68415	0.1093621	0.18056273	3.1001590	20	7 17.9	21.5
401482 2013 CQ_{206}	17.4	X	2.08396	230.98219	185.86856	5.45532	0.0377713	0.23785262	2.5798676	20	—	—
401483 2013 CX_{209}	17.4	X	94.76568	192.00580	175.92699	6.55037	0.1310595	0.26428636	2.4048401	20	—	—
401484 2013 CW_{210}	16.3	X	90.80230	290.71634	242.93609	12.14134	0.1024887	0.17886556	3.1197387	20	7 2.1	20.9
401485 2013 DS_{1}	17.4	X	297.83479	94.49331	103.48553	4.78476	0.1787268	0.26673428	2.3901042	20	—	—
401486 2013 DB_{3}	16.5	X	193.65354	316.84002	282.88963	11.29065	0.1954324	0.23529331	2.5985415	20	—	—
401487 2013 DX_{4}	16.5	X	138.87631	91.35882	129.21894	4.40466	0.0352178	0.21279044	2.7786551	20	10 26.5	20.5
401488 2013 DT_{5}	17.4	X	358.51691	237.61497	156.43934	5.77475	0.0561460	0.22855495	2.6493681	20	12 14.6	20.8
401489 2013 DY_{5}	17.2	X	156.88016	216.83150	41.79744	6.53398	0.1834220	0.22140324	2.7061181	20	12 26.7	21.8
401490 2013 DV_{8}	17.4	X	253.10905	169.18929	156.18301	3.19751	0.2127661	0.28807736	2.2705442	20	3 23.0	20.7
401491 2013 DK_{15}	17.5	X	51.04347	213.24042	272.22865	5.52833	0.1654685	0.28300447	2.2975970	20	2 26.7	19.5
401492 2013 DB_{16}	16.6	X	290.55111	229.49275	283.20359	11.78737	0.0899509	0.24081819	2.5586440	20	—	—
401493 2013 DC_{16}	16.9	X	321.26921	278.23022	272.16535	10.26690	0.1090552	0.26402510	2.4064263	20	—	—
401494 2013 DG_{16}	15.0	X	46.27487	302.19283	266.40516	17.78912	0.1168998	0.16963088	3.2319610	20	6 20.6	19.0
401495 2013 EG_{3}	17.8	X	115.64899	238.56102	163.90486	6.47073	0.1178471	0.28045257	2.3115135	20	2 9.1	20.7
401496 2013 ER_{10}	16.0	X	97.23295	343.73248	186.54537	10.86970	0.0239028	0.17585819	3.1552055	20	6 25.7	20.6
401497 2013 EB_{13}	16.0	X	242.38382	230.59922	150.63805	8.61761	0.0169973	0.17246169	3.1964970	20	6 16.2	20.7
401498 2013 EY_{15}	17.4	X	230.89316	235.57287	46.61385	2.88036	0.1928332	0.25908258	2.4369348	20	1 14.1	21.3
401499 2013 EQ_{18}	17.3	X	302.08128	293.70812	303.33453	4.69882	0.0993364	0.27347959	2.3506399	20	2 5.5	20.2
401500 2013 EX_{18}	17.7	X	318.87152	215.19646	28.42785	1.99029	0.1334673	0.28076573	2.3097944	20	3 3.9	20.1
401501 2013 ER_{24}	16.9	X	185.68385	53.18851	157.25467	12.71340	0.1192262	0.21732760	2.7398458	20	12 1.4	21.3
401502 2013 ES_{28}	17.5	X	276.52759	43.97228	182.51823	14.85369	0.0510269	0.26493419	2.4009183	20	—	—
401503 2013 EY_{28}	16.7	X	265.78047	349.33275	181.01791	17.11666	0.1152829	0.23415468	2.6069587	20	—	—
401504 2013 ED_{29}	16.6	X	103.95984	317.63302	339.33388	1.52426	0.0617435	0.22125917	2.7072926	20	12 21.2	20.5
401505 2013 EW_{30}	16.5	X	110.89641	148.92670	158.21341	14.19483	0.1024589	0.22188385	2.7022089	20	—	—
401506 2013 ER_{31}	15.9	X	60.33218	131.46655	151.42349	8.13568	0.1220110	0.19175806	2.9782899	20	10 19.8	20.1
401507 2013 EE_{32}	16.6	X	101.81911	79.26420	161.79755	10.17968	0.0216299	0.19938729	2.9018240	20	10 4.9	20.7
401508 2013 EM_{33}	16.0	X	113.16306	163.53367	24.16829	10.42283	0.2089792	0.18334311	3.0687369	20	8 30.0	21.1
401509 2013 EP_{34}	16.6	X	65.37995	126.51311	139.45180	6.01766	0.1242128	0.19041902	2.9922359	20	10 4.4	20.8
401510 2013 EV_{34}	17.1	X	29.38931	81.56734	22.50941	6.63254	0.1018766	0.26144230	2.4222492	20	—	—
401511 2013 EY_{41}	17.8	X	171.54455	54.39396	333.05625	6.00909	0.1139296	0.28696643	2.2764004	20	3 23.8	21.0
401512 2013 EO_{51}	17.0	X	36.11234	329.47519	155.83232	8.62908	0.0634013	0.26861241	2.3789501	20	1 28.7	19.7
401513 2013 EP_{51}	16.8	X	186.68928	88.03233	137.12427	5.52977	0.1056840	0.22170255	2.7036819	20	12 20.0	20.8
401514 2013 EC_{58}	17.0	X	144.22978	287.33557	8.28445	4.62528	0.0554586	0.23577069	2.5950327	20	—	—
401515 2013 ES_{58}	17.6	X	162.14588	10.65663	25.24196	3.10194	0.0328365	0.28370559	2.2938100	20	3 21.3	20.5
401516 2013 EC_{64}	17.2	X	310.99140	281.22778	143.98164	4.57775	0.0854299	0.21781933	2.7357208	20	11 13.5	20.5
401517 2013 EU_{67}	16.3	X	86.91039	248.19025	34.93027	9.93839	0.1991971	0.19712658	2.9239678	20	11 22.4	21.0
401518 2013 ES_{68}	16.7	X	149.37549	285.26844	26.47105	7.50717	0.0513012	0.24220795	2.5488471	20	—	—
401519 2013 EF_{71}	16.8	X	149.19111	274.31848	339.12446	1.83510	0.0887021	0.22277200	2.6950220	20	12 16.7	21.0
401520 2013 EF_{74}	17.4	X	185.39006	126.48872	133.99821	4.54700	0.0991993	0.23727792	2.5840316	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
401521 2013 EW_{74}	16.7	X	227.03887	318.66774	141.70927	5.87524	0.0777368	0.19988594	2.8969959	20	9 1.1	20.8
401522 2013 EX_{81}	17.2	X	255.19902	91.02843	171.82187	5.34622	0.1098964	0.26180992	2.4199812	20	1 15.4	20.7
401523 2013 EU_{86}	16.6	X	260.94520	80.32060	60.76169	6.94353	0.0212337	0.22045856	2.7138431	20	12 15.2	20.3
401524 2013 EJ_{88}	16.4	X	138.98547	299.90065	334.13398	9.97860	0.2059619	0.22219916	2.6996520	20	12 30.9	21.1
401525 2013 ED_{90}	16.7	X	188.14586	256.17000	324.30489	11.50707	0.1546054	0.21978636	2.7193737	20	12 10.5	21.1
401526 2013 EG_{90}	16.4	X	253.68187	341.69054	144.72120	12.61765	0.1269910	0.22425855	2.6830991	20	11 7.5	20.1
401527 2013 ET_{91}	15.8	X	52.96337	272.64539	327.04634	14.71457	0.2002200	0.17625264	3.1504962	20	8 22.8	19.9
401528 2013 EO_{92}	16.7	X	298.14558	224.30589	273.99063	10.32687	0.1444715	0.23748817	2.5825064	20	—	—
401529 2013 EO_{93}	17.3	X	275.69461	284.84265	221.60488	2.42360	0.1606206	0.22826826	2.6515859	20	12 29.3	20.0
401530 2013 ES_{93}	16.5	X	190.65500	101.68155	105.44461	12.31125	0.1579049	0.22002554	2.7174026	20	11 29.6	20.8
401531 2013 EQ_{94}	16.5	X	174.52372	218.51610	347.94775	8.95034	0.1209604	0.21482074	2.7611198	20	11 9.5	20.9
401532 2013 EP_{98}	17.2	X	244.77548	116.31473	88.15139	0.55469	0.0793965	0.23796792	2.5790342	20	—	—
401533 2013 EJ_{101}	15.5	X	208.37210	305.24661	129.86566	11.94160	0.0167016	0.17674713	3.1446173	20	7 11.7	20.0
401534 2013 EK_{101}	16.2	X	73.88564	162.24651	85.79170	9.49938	0.1666031	0.18510693	3.0492118	20	9 29.9	20.8
401535 2013 EY_{102}	15.5	X	36.23408	255.50488	45.76038	14.47624	0.2060403	0.18335713	3.0685804	20	10 22.7	19.5
401536 2013 ED_{104}	16.9	X	209.44524	81.49452	123.06728	13.70433	0.2173098	0.22692258	2.6620584	20	12 9.8	21.1
401537 2013 EQ_{105}	17.1	X	203.22117	58.88364	176.60899	10.96915	0.0493517	0.23435355	2.6054837	20	—	—
401538 2013 EO_{108}	16.9	X	73.72290	340.42623	289.99972	1.21502	0.0453907	0.20385465	2.8592731	20	10 8.4	20.7
401539 2013 EF_{109}	17.0	X	280.93306	222.71940	286.65418	2.75367	0.1622686	0.23751106	2.5823404	20	—	—
401540 2013 EE_{110}	15.0	X	286.85421	168.60334	66.08353	3.78349	0.1451233	0.12436441	3.9750137	20	1 31.7	20.8
401541 2013 EQ_{110}	16.4	X	206.22446	216.08335	45.79971	14.47790	0.1218869	0.24278364	2.5448163	20	—	—
401542 2013 ER_{110}	17.4	X	220.87318	325.77872	235.38080	6.87581	0.1352664	0.23212899	2.6221033	20	12 26.6	21.1
401543 2013 EU_{111}	16.5	X	241.72828	25.23790	164.40828	12.58030	0.1449118	0.22868121	2.6483928	20	—	—
401544 2013 ES_{112}	15.9	X	181.96074	150.92792	97.52031	11.70128	0.0965576	0.22970449	2.6405216	20	—	—
401545 2013 EG_{115}	15.9	X	120.74359	49.86133	99.72303	4.17298	0.0528728	0.17390116	3.1788331	20	7 2.4	20.4
401546 2013 ES_{120}	17.1	X	237.88001	251.12306	296.15001	2.18574	0.0208311	0.22729043	2.6591854	20	—	—
401547 2013 EQ_{122}	17.0	X	229.44548	17.11781	181.39903	5.00747	0.0741772	0.22979927	2.6397955	20	—	—
401548 2013 EF_{123}	17.4	X	79.59363	260.07421	177.53877	4.97399	0.0908168	0.26693615	2.3888990	20	2 2.7	20.0
401549 2013 EV_{124}	16.6	X	110.82068	256.77041	60.97684	11.22174	0.0360561	0.23001432	2.6381499	20	—	—
401550 2013 EK_{125}	17.3	X	96.07870	192.29939	99.58256	5.53656	0.0421525	0.21275258	2.7789847	20	12 3.3	21.3
401551 2013 ES_{125}	16.1	X	27.85221	221.31651	51.83482	5.52647	0.1466466	0.17254722	3.1954406	20	8 23.7	20.1
401552 2013 EK_{128}	15.7	X	17.08749	265.17396	52.69350	11.16405	0.1212505	0.19232524	2.9724315	20	10 6.9	19.5
401553 2013 EL_{128}	16.6	X	157.17238	66.33686	150.32085	14.69949	0.1701743	0.21282685	2.7783381	20	11 11.3	21.4
401554 2013 EO_{128}	15.6	X	17.25275	163.02987	124.27744	17.27886	0.1646382	0.17833691	3.1259010	20	8 28.0	19.4
401555 2013 EP_{139}	18.7	X	4.90058	95.27460	133.91072	2.81828	0.0740843	0.30518641	2.1848716	20	5 7.9	20.7
401556 2013 FO_{2}	16.2	X	106.00537	239.28593	62.16801	12.41960	0.0739838	0.21968388	2.7202194	20	12 28.9	20.3
401557 2013 FS_{2}	16.6	X	263.57092	51.59295	93.07559	5.77880	0.1002171	0.22583066	2.6706324	20	12 15.2	19.9
401558 2013 FB_{3}	16.0	X	85.69648	169.05570	121.46532	10.41674	0.1106041	0.20653390	2.8344915	20	11 27.4	20.4
401559 2013 FL_{3}	15.3	X	68.58668	112.61209	126.55139	16.58824	0.2145637	0.17554519	3.1589549	20	9 17.7	20.1
401560 2013 FY_{3}	16.6	X	193.40067	309.03567	320.23298	6.89055	0.1262924	0.24013963	2.5634617	20	—	—
401561 2013 FW_{4}	16.5	X	132.94327	229.23808	60.12964	9.69839	0.0939782	0.22611390	2.6684017	20	—	—
401562 2013 FG_{5}	17.0	X	155.13315	183.44980	85.54453	4.69862	0.0379136	0.22398645	2.6852716	20	—	—
401563 2013 FH_{5}	17.0	X	112.92719	17.29242	45.85798	8.75535	0.1235684	0.27281970	2.3544288	20	3 12.2	20.1
401564 2013 FJ_{5}	16.4	X	96.32802	221.50389	48.87514	8.89914	0.0423195	0.20164142	2.8801574	20	11 4.9	20.5
401565 2013 FO_{5}	17.1	X	210.40211	72.40660	148.57700	13.30480	0.1345410	0.23105340	2.6302345	20	—	—
401566 2013 FX_{5}	16.4	X	166.45920	148.37874	107.57363	9.83253	0.1054704	0.22338834	2.6900626	20	—	—
401567 2013 FW_{7}	16.4	X	31.98358	124.02108	148.32317	6.19386	0.1152732	0.17398384	3.1778260	20	8 22.4	20.4
401568 2013 FM_{8}	17.0	X	343.95414	18.22845	134.11453	12.20031	0.1087504	0.25943150	2.4347493	20	—	—
401569 2013 FD_{13}	15.8	X	47.10363	143.94963	105.14190	12.45282	0.1324451	0.17290820	3.1909915	20	8 19.4	20.1
401570 2013 FB_{15}	16.8	X	144.23350	211.57645	83.88222	12.92140	0.1192238	0.22737661	2.6585134	20	—	—
401571 2013 FY_{15}	16.8	X	172.29416	129.77791	69.56923	4.04569	0.0539669	0.20588395	2.8404538	20	11 4.6	21.0
401572 2013 FJ_{17}	16.5	X	154.64995	154.56078	5.59287	3.46911	0.1492553	0.18829267	3.0147208	20	8 27.5	21.4
401573 2013 FN_{17}	17.2	X	250.76704	284.17489	3.02960	2.12963	0.1914818	0.26294213	2.4130293	20	2 5.9	21.0
401574 2013 FN_{20}	16.3	X	219.50801	63.09446	81.08489	3.17130	0.0100024	0.20394658	2.8584138	20	10 27.2	20.3
401575 2013 FQ_{24}	16.9	X	56.84323	206.22527	193.28911	9.30310	0.0590900	0.24012116	2.5635931	20	—	—
401576 2013 FC_{25}	16.7	X	221.52362	186.36287	345.82389	2.64898	0.0307442	0.21478023	2.7614670	20	12 1.5	20.5
401577 2013 FG_{25}	15.7	X	31.52332	281.87057	2.70598	12.10674	0.0594328	0.18189978	3.0849487	20	9 3.7	19.8
401578 2013 FY_{25}	17.3	X	117.42631	348.99142	82.88861	10.73548	0.0969158	0.28270562	2.2992159	20	3 26.9	20.4
401579 2013 FE_{26}	15.4	X	235.10853	332.66390	48.66648	17.54770	0.0925168	0.16999932	3.2272895	20	5 26.9	20.3
401580 2013 FM_{27}	16.3	X	37.20750	131.22721	141.95845	1.56331	0.1504736	0.17556340	3.1587365	20	9 5.7	20.4
401581 2013 FP_{27}	15.8	X	351.64549	110.84896	199.75713	9.15207	0.1057050	0.17478625	3.1680927	20	8 4.5	19.9
401582 2013 FV_{27}	17.0	X	233.17862	113.66757	171.78301	7.37328	0.1204552	0.26026410	2.4295539	20	1 20.4	20.8
401583 2013 GO_{1}	16.3	X	16.97534	21.30635	347.04448	5.36687	0.0425791	0.21189279	2.7864971	20	11 29.2	20.0
401584 2013 GP_{1}	17.4	X	273.49800	4.59752	216.56018	6.04297	0.0549737	0.25245679	2.4793891	20	—	—
401585 2013 GS_{3}	15.9	X	38.57456	278.33550	17.15247	3.13022	0.1862555	0.18705369	3.0280185	20	10 13.3	19.8
401586 2013 GM_{4}	16.0	X	74.09239	96.62675	125.17947	2.30195	0.1275992	0.17643548	3.1483193	20	8 17.2	20.5
401587 2013 GT_{6}	15.7	X	91.14826	218.11404	5.37297	10.39772	0.0604438	0.17990718	3.1076854	20	9 2.7	20.2
401588 2013 GL_{9}	16.5	X	41.27442	80.95912	205.16502	1.65677	0.1914901	0.18382656	3.0633541	20	10 5.3	20.5
401589 2013 GM_{9}	16.8	X	227.18488	340.59225	190.03577	6.51053	0.1034365	0.21976751	2.7195291	20	11 28.9	20.6
401590 2013 GT_{9}	16.4	X	122.83941	160.96254	105.96808	5.08573	0.0630823	0.21162106	2.7888819	20	12 3.8	20.5
401591 2013 GD_{10}	16.7	X	117.62557	183.23935	116.25454	4.65834	0.1778759	0.21604268	2.7506986	20	—	—
401592 2013 GG_{10}	16.7	X	160.02004	74.42691	158.69944	3.69512	0.0371615	0.21307906	2.7761454	20	12 4.1	20.7
401593 2013 GO_{14}	16.4	X	157.04445	185.44777	124.19856	13.42326	0.1704366	0.23807510	2.5782601	20	—	—
401594 2013 GH_{15}	17.4	X	217.95554	59.61022	168.34347	1.89961	0.0336989	0.23483870	2.6018941	20	—	—
401595 2013 GN_{20}	15.9	X	237.84503	225.02532	178.93607	12.59148	0.1015149	0.17237859	3.1975242	20	6 27.9	20.9
401596 2013 GY_{20}	15.4	X	145.12617	296.70195	190.27420	17.48725	0.1027369	0.17070170	3.2184306	20	7 3.3	20.7
401597 2013 GY_{21}	15.9	X	61.04122	58.01913	193.50022	9.62057	0.1051102	0.17913792	3.1165758	20	9 1.9	20.3
401598 2013 GL_{22}	16.5	X	136.30090	241.96682	19.75736	10.38299	0.0815250	0.21073919	2.7966568	20	12 9.8	20.9
401599 2013 GO_{24}	15.1	X	55.59732	111.50657	136.46207	21.24805	0.1053573	0.17518075	3.1633346	20	8 24.3	19.4
401600 2013 GZ_{24}	17.3	X	58.17317	212.08435	299.35456	4.71138	0.0943821	0.28494472	2.2871552	20	4 11.5	19.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
401601 2013 GP_{25}	16.5	X	110.89062	277.11127	297.60002	4.48129	0.1717519	0.18564960	3.0432669	20	9 20.2	21.4
401602 2013 GT_{25}	16.0	X	296.01523	9.07024	83.52166	14.56192	0.0356212	0.21379943	2.7699059	20	11 29.1	19.6
401603 2013 GX_{25}	15.9	X	81.85741	153.85373	103.74053	11.71292	0.0698514	0.19110426	2.9850788	20	10 10.2	20.4
401604 2013 GB_{26}	16.3	X	187.20553	130.61236	79.79527	8.96623	0.0766450	0.21511555	2.7585965	20	12 4.0	20.4
401605 2013 GV_{26}	16.9	X	91.23408	341.13830	72.16185	7.34550	0.0881302	0.26119934	2.4237510	20	1 21.2	19.8
401606 2013 GW_{26}	16.4	X	6.84015	311.83918	97.19622	7.46698	0.0599691	0.22625452	2.6672960	20	—	—
401607 2013 GV_{27}	15.7	X	336.32680	242.33594	101.96233	11.53741	0.1217839	0.18736394	3.0246749	20	9 2.1	19.4
401608 2013 GD_{30}	16.1	X	67.47205	233.13695	13.69598	7.82782	0.0812013	0.18006799	3.1058350	20	9 5.6	20.5
401609 2013 GH_{32}	16.7	X	101.46334	324.46445	43.81505	6.78217	0.1306712	0.24053801	2.5606305	20	—	—
401610 2013 GR_{32}	16.5	X	105.36799	129.28787	176.20029	6.52869	0.0932578	0.21533151	2.7567517	20	—	—
401611 2013 GO_{34}	15.4	X	20.45838	197.47683	92.39992	16.82056	0.0487595	0.18342907	3.0677781	20	8 27.8	19.8
401612 2013 GV_{37}	16.8	X	322.14137	335.01962	177.78807	13.95221	0.0743245	0.24604298	2.5222922	20	—	—
401613 2013 GJ_{38}	16.3	X	63.33137	255.22293	35.51978	6.09659	0.1028451	0.19358659	2.9595059	20	10 28.0	20.2
401614 2013 GP_{42}	17.5	X	193.48846	196.56432	185.60969	4.63870	0.1216218	0.28095165	2.3087752	20	4 12.2	20.7
401615 2013 GS_{43}	16.4	X	121.73176	263.85085	34.03783	13.37387	0.0783431	0.21669949	2.7451376	20	—	—
401616 2013 GK_{50}	17.0	X	126.12216	197.61805	70.18876	4.77489	0.0588299	0.21148318	2.7900939	20	12 7.6	20.9
401617 2013 GA_{52}	15.3	X	262.64922	323.00231	73.29444	18.22115	0.0838009	0.16851493	3.2462138	20	7 22.0	20.1
401618 2013 GK_{53}	15.7	X	324.84512	216.39105	138.12517	6.40692	0.1285287	0.17665598	3.1456989	20	8 20.9	19.3
401619 2013 GK_{54}	16.0	X	41.09003	202.08839	77.17271	5.48307	0.1115269	0.17685667	3.1433188	20	9 16.5	20.2
401620 2013 GU_{54}	15.6	X	16.38187	261.65087	46.37897	10.72457	0.0651285	0.18005330	3.1060039	20	9 15.5	19.8
401621 2013 GQ_{56}	17.1	X	180.48362	225.53410	102.76811	3.60892	0.1043061	0.25456620	2.4656735	20	1 22.7	20.5
401622 2013 GC_{57}	17.2	X	253.72450	122.13131	63.39306	3.88079	0.0246473	0.23228266	2.6209467	20	—	—
401623 2013 GZ_{58}	17.9	X	102.67136	258.56323	185.85537	4.93014	0.1201336	0.27788311	2.3257406	20	3 21.6	20.8
401624 2013 GD_{61}	16.6	X	59.02292	98.34576	165.49137	5.55374	0.1190650	0.18081644	3.0972584	20	9 19.9	20.7
401625 2013 GQ_{62}	15.6	X	59.87261	154.08745	104.49089	21.74998	0.1646742	0.18154886	3.0889226	20	10 1.1	20.4
401626 2013 GZ_{66}	16.0	X	141.49373	290.72408	192.63010	4.34938	0.1089083	0.17345313	3.1843047	20	6 27.0	21.0
401627 2013 GJ_{67}	17.4	X	31.69235	271.71949	198.29745	3.70388	0.0381908	0.26147786	2.4220295	20	1 3.1	20.2
401628 2013 GT_{70}	16.4	X	93.08238	290.54334	336.53262	1.27112	0.1575286	0.19119405	2.9841441	20	11 5.9	21.1
401629 2013 GU_{72}	16.5	X	140.83548	194.23530	73.99055	4.59949	0.0575671	0.20990041	2.8041023	20	12 23.6	20.6
401630 2013 GP_{73}	17.2	X	290.39927	170.32600	81.31841	5.53486	0.1348406	0.26204687	2.4185222	20	2 8.9	20.5
401631 2013 GF_{74}	16.0	X	136.08802	107.36953	87.11266	12.35845	0.1285891	0.19118848	2.9842022	20	9 26.2	20.9
401632 2013 GD_{75}	16.6	X	96.72936	210.36841	55.79103	11.28653	0.0805887	0.19667511	2.9284408	20	11 4.2	20.9
401633 2013 GR_{81}	16.0	X	15.24270	277.20305	25.93464	11.88507	0.1301316	0.17843104	3.1248015	20	9 13.2	19.9
401634 2013 GA_{82}	16.1	X	254.17576	65.22779	138.45533	15.57847	0.0805447	0.23539423	2.5977988	20	—	—
401635 2013 GO_{82}	16.8	X	118.41823	118.96421	186.96872	13.12830	0.2071144	0.22095199	2.7098013	20	—	—
401636 2013 GW_{83}	15.8	X	104.20395	64.40558	146.47985	11.15400	0.0776745	0.17924485	3.1153363	20	9 2.3	20.3
401637 2013 GY_{83}	16.6	X	190.82460	354.60608	191.16433	4.38706	0.1327487	0.21109540	2.7935098	20	11 3.1	20.9
401638 2013 GQ_{85}	15.8	X	52.91907	64.57593	209.56122	9.49071	0.0757941	0.17773834	3.1329151	20	9 15.3	20.2
401639 2013 GL_{91}	16.0	X	339.91678	333.77129	356.09276	9.10458	0.1159522	0.17328762	3.1863320	20	8 16.2	19.9
401640 2013 GA_{92}	15.8	X	223.55266	341.36902	256.18224	13.25487	0.0644406	0.23506696	2.6002094	20	—	—
401641 2013 GB_{92}	15.4	X	92.06553	357.21897	227.59312	16.65169	0.1488807	0.17973655	3.1096519	20	9 7.2	20.5
401642 2013 GW_{92}	15.3	X	107.47892	254.08678	294.15437	8.54830	0.1743727	0.17493595	3.1662850	20	8 15.2	20.3
401643 2013 GL_{93}	16.8	X	334.47044	293.12755	183.03001	14.60124	0.0386639	0.23686970	2.5869997	20	—	—
401644 2013 GF_{94}	17.2	X	63.59126	246.65538	228.69009	5.14983	0.1655881	0.27796722	2.3252714	20	3 8.9	19.5
401645 2013 GF_{96}	15.7	X	337.24082	352.16449	9.62129	11.10656	0.1046986	0.18666099	3.0322640	20	9 24.3	19.3
401646 2013 GV_{97}	16.7	X	192.27396	344.42682	251.10959	7.46083	0.1163399	0.22048173	2.7136530	20	—	—
401647 2013 GA_{98}	15.6	X	92.90107	294.05189	299.80770	15.49800	0.1521741	0.18248119	3.0783924	20	9 17.3	20.6
401648 2013 GO_{98}	16.1	X	138.79828	0.02353	175.40826	1.98123	0.0221924	0.18042697	3.1017140	20	8 23.2	20.5
401649 2013 GN_{100}	15.8	X	82.48862	40.70753	239.93935	10.15091	0.1147475	0.18902122	3.0069694	20	11 6.3	20.4
401650 2013 GN_{101}	15.2	X	336.70715	296.82316	64.50122	10.46312	0.0708444	0.18107170	3.0943469	20	9 26.7	19.3
401651 2013 GY_{102}	17.0	X	294.35492	324.29385	193.85257	7.36108	0.1361206	0.23844764	2.5755740	20	—	—
401652 2013 GO_{104}	17.3	X	321.02490	123.53887	15.10098	4.20301	0.1624349	0.24255525	2.5464135	20	—	—
401653 2013 GA_{105}	17.1	X	281.63002	330.56225	187.09760	14.67986	0.0355454	0.23093003	2.6311712	20	—	—
401654 2013 GS_{105}	15.3	X	64.43844	295.11006	324.29480	16.84572	0.1605182	0.17926770	3.1150715	20	9 19.2	19.9
401655 2013 GX_{107}	15.8	X	30.84938	188.01192	105.83917	5.97785	0.1467399	0.17234352	3.1979579	20	9 24.7	19.9
401656 2013 GR_{109}	16.1	X	100.14941	170.43830	107.88697	10.09311	0.0721014	0.19798887	2.9154720	20	11 22.9	20.5
401657 2013 GX_{109}	16.7	X	174.83606	130.33146	129.64682	4.16134	0.1343679	0.22175673	2.7032415	20	—	—
401658 2013 GG_{111}	15.6	X	122.00776	41.40786	161.27831	11.43697	0.0929762	0.18141147	3.0904820	20	9 13.1	20.2
401659 2013 GM_{111}	15.5	X	25.12381	190.16462	145.52606	11.95829	0.0998097	0.18405536	3.0608149	20	11 5.6	19.7
401660 2013 GK_{112}	15.7	X	125.66980	315.85678	239.46685	15.57858	0.1499724	0.18042326	3.1017565	20	9 4.0	21.0
401661 2013 GN_{112}	15.5	X	35.74819	351.79493	296.58494	8.85676	0.1465274	0.17666516	3.1455900	20	9 17.8	19.8
401662 2013 GO_{112}	16.2	X	23.96797	263.00875	50.30044	0.73256	0.0268425	0.18780374	3.0199510	20	9 24.6	20.3
401663 2013 GC_{113}	15.8	X	151.32300	135.25738	39.18593	12.48535	0.0739305	0.18203132	3.0834623	20	9 13.9	20.6
401664 2013 GP_{113}	16.1	X	91.48845	199.41537	125.42611	7.56390	0.0675255	0.21126624	2.7920037	20	—	—
401665 2013 GV_{115}	18.0	X	288.41688	287.07338	16.70613	2.83705	0.0877068	0.29007588	2.2601034	20	4 19.8	20.7
401666 2013 GD_{117}	16.6	X	37.14912	300.69206	77.14994	6.47361	0.0166055	0.22253496	2.6969355	20	—	—
401667 2013 GX_{118}	16.2	X	35.17760	52.05236	219.33768	1.02402	0.0511043	0.17674262	3.1446709	20	8 17.4	20.5
401668 2013 GX_{119}	16.8	X	27.91386	150.86336	154.28680	3.07565	0.1679209	0.18252082	3.0779468	20	10 7.7	20.7
401669 2013 GO_{120}	16.8	X	92.63364	267.50339	39.00094	5.03659	0.0734043	0.21059225	2.7979576	20	12 18.7	20.9
401670 2013 GX_{121}	15.9	X	46.60346	248.87309	16.51420	6.49427	0.1031270	0.17559284	3.1583834	20	9 4.1	20.1
401671 2013 GB_{122}	16.2	X	163.20028	140.25594	21.41928	9.64753	0.0555400	0.18457222	3.0550981	20	9 8.7	20.8
401672 2013 GJ_{125}	16.1	X	72.13150	169.59433	89.91040	11.79265	0.1096582	0.17881443	3.1203335	20	10 4.9	20.8
401673 2013 GO_{130}	16.4	X	252.29057	252.53201	250.09306	9.77217	0.1485034	0.21366489	2.7710686	20	11 15.8	20.2
401674 2013 GZ_{130}	16.7	X	166.88933	206.37457	110.99807	12.65601	0.1497080	0.24435655	2.5338840	20	—	—
401675 2013 GF_{131}	15.7	X	36.63303	149.28171	146.05968	16.04043	0.1744318	0.17926984	3.1150467	20	10 12.2	20.0
401676 2013 GY_{131}	16.2	X	195.58808	141.99452	134.25950	14.83746	0.0771599	0.24156676	2.5533554	20	—	—
401677 2013 GU_{132}	15.8	X	339.16769	65.22483	111.17553	4.17294	0.0971537	0.12543273	3.9524114	20	2 3.8	20.9
401678 2013 GA_{133}	16.2	X	73.39785	239.27914	342.77849	4.29775	0.0787821	0.17577630	3.1561853	20	8 10.1	20.5
401679 2013 GF_{134}	16.8	X	185.48598	218.24571	49.52121	5.69112	0.0068110	0.23399874	2.6081168	20	—	—
401680 2013 GQ_{134}	16.7	X	127.46717	69.16056	160.74165	4.39026	0.0804404	0.19395640	2.9557427	20	10 23.4	21.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
401681 2013 HF_3	15.8	X	42.68934	130.62914	154.55037	9.94077	0.0458148	0.18036306	3.1024466	20	9 15.8	20.0
401682 2013 HL_5	16.1	X	115.31460	148.17749	139.61490	14.76253	0.0809764	0.21003315	2.8029207	20	12 21.9	20.5
401683 2013 HF_8	16.4	X	102.95862	24.58629	195.53372	5.25149	0.0952574	0.18208344	3.0828738	20	9 12.5	21.0
401684 2013 HF_9	16.9	X	234.67072	105.54561	95.79376	11.12362	0.0455493	0.23093302	2.6311485	20	—	—
401685 2013 HL_{10}	15.7	X	50.44249	98.32642	152.20789	17.05218	0.1347093	0.17280023	3.1923206	20	8 23.3	19.9
401686 2013 HB_{12}	16.2	X	50.72836	191.94349	64.03018	4.78128	0.1466533	0.17238708	3.1974192	20	9 4.0	20.5
401687 2013 HJ_{13}	16.4	X	100.00890	184.01396	66.58060	11.27615	0.1294776	0.18889284	3.0083317	20	10 25.3	21.1
401688 2013 HW_{13}	16.3	X	52.44088	38.94196	208.99572	3.95157	0.1286896	0.17142742	3.2093409	20	8 20.2	20.6
401689 2013 HG_{15}	15.6	X	191.98709	323.48487	216.52505	14.36341	0.0835390	0.20489139	2.8496197	20	10 30.4	19.7
401690 2013 HP_{17}	16.7	X	164.55952	351.04301	180.22595	2.71933	0.1539616	0.19135860	2.9824332	20	9 18.1	21.4
401691 2013 HJ_{18}	16.3	X	109.86201	25.01454	152.84164	1.50428	0.0915508	0.17057382	3.2200390	20	7 29.1	21.1
401692 2013 HT_{20}	15.9	X	51.48701	204.70806	91.11690	15.18803	0.0743717	0.18506550	3.0496669	20	10 21.8	20.4
401693 2013 HF_{22}	15.7	X	297.48823	24.68679	17.09507	10.50988	0.0532387	0.18745057	3.0237430	20	9 20.9	19.7
401694 2013 HG_{23}	15.4	X	78.59170	203.99576	50.69927	11.94419	0.0373384	0.17908198	3.1172248	20	9 26.3	20.0
401695 2013 HW_{23}	15.8	X	111.79835	217.75290	34.52294	15.78659	0.0928214	0.19293981	2.9661162	20	11 1.5	20.3
401696 2013 HP_{26}	16.0	X	158.43094	92.44980	69.71949	11.65421	0.0588719	0.18100933	3.0950576	20	9 6.1	20.8
401697 2013 HN_{28}	15.5	X	27.36603	189.40319	113.93815	11.75038	0.0391002	0.17698628	3.1417839	20	9 20.8	19.9
401698 2013 HO_{30}	16.6	X	116.72917	318.44954	249.23638	6.76277	0.1094088	0.18459333	3.0548652	20	9 11.2	21.4
401699 2013 HX_{30}	16.9	X	41.60741	116.45652	270.10553	5.02326	0.0367795	0.22438166	2.6821176	20	—	—
401700 2013 HN_{33}	16.5	X	144.56711	26.77369	280.94619	5.66743	0.0826401	0.22948974	2.6421686	20	—	—
401701 2013 HA_{36}	16.2	X	124.55751	181.87987	7.12401	13.90345	0.1727752	0.18176037	3.0865258	20	9 7.4	21.3
401702 2013 HL_{39}	16.6	X	90.77330	91.54725	240.27771	8.95320	0.1551592	0.21489837	2.7604548	20	—	—
401703 2013 HB_{40}	16.6	X	246.51056	190.60947	216.21840	25.80220	0.1038593	0.17327290	3.1865125	20	7 6.0	21.8
401704 2013 HW_{44}	17.0	X	29.78441	70.13712	298.10814	4.19917	0.0443799	0.21024230	2.8010615	20	12 16.7	20.9
401705 2013 HT_{48}	16.5	X	40.56580	60.92369	224.73806	8.41059	0.0399327	0.18152952	3.0891420	20	9 8.3	20.8
401706 2013 HH_{60}	17.7	X	150.37795	33.80262	245.65699	4.14458	0.0091180	0.22474729	2.6792078	20	—	—
401707 2013 HC_{68}	17.4	X	91.06907	118.91826	255.51172	3.18829	0.0996678	0.23682748	2.5873071	20	—	—
401708 2013 HA_{69}	17.0	X	337.01040	64.73497	349.33385	4.16773	0.1011851	0.21167318	2.7884241	20	12 6.6	20.4
401709 2013 HH_{69}	17.2	X	140.25929	4.53444	7.82131	4.58027	0.0965696	0.25511454	2.4621390	20	2 3.4	20.5
401710 2013 HM_{79}	16.2	X	129.48261	154.98262	27.38034	10.91946	0.0592304	0.17927871	3.1149439	20	8 28.8	21.0
401711 2013 HD_{95}	16.7	X	65.58310	100.21997	200.57067	1.31176	0.0576706	0.19845927	2.9108631	20	11 7.0	20.6
401712 2013 HU_{106}	15.9	X	18.90753	280.27312	31.10165	9.83925	0.0651473	0.18356446	3.0662695	20	9 21.9	19.9
401713 2013 HP_{114}	16.6	X	228.58558	140.84632	28.36706	3.30957	0.0332679	0.21237795	2.7822518	20	12 5.7	20.5
401714 2013 HA_{116}	17.4	X	352.30986	62.86032	35.84927	2.98717	0.0599976	0.23461971	2.6035128	20	—	—
401715 2013 HS_{116}	16.4	X	332.27708	305.43217	49.18161	2.49647	0.0839272	0.18209857	3.0827030	20	9 6.4	20.3
401716 2013 HY_{117}	17.1	X	175.30250	200.85757	154.20987	2.79999	0.1966980	0.25720537	2.4487777	20	2 24.0	21.0
401717 2013 HM_{118}	17.0	X	66.77545	293.60452	57.30462	5.09704	0.1088854	0.21590747	2.7518469	20	—	—
401718 2013 HB_{119}	17.1	X	291.94515	18.13563	66.40331	2.98456	0.0434788	0.20479609	2.8505037	20	11 9.3	20.7
401719 2013 HB_{122}	17.2	X	120.14880	93.81190	174.87096	1.86238	0.0320611	0.20630814	2.8365589	20	11 30.3	21.2
401720 2013 HK_{122}	17.1	X	94.59682	269.70868	5.77534	1.52457	0.0492309	0.19875812	2.9079446	20	11 8.5	21.1
401721 2013 HH_{133}	16.4	X	42.69647	78.77264	221.53792	8.56085	0.0279885	0.18927967	3.0042316	20	9 30.5	20.6
401722 2013 HH_{146}	17.7	X	335.93618	294.18621	205.41985	13.21922	0.0834304	0.24589084	2.5233325	20	—	—
401723 2013 JD_3	16.0	X	49.47256	300.15493	11.98731	5.93345	0.0818794	0.19548372	2.9403271	20	11 2.6	20.1
401724 2013 JR_3	15.6	X	35.12916	56.68251	211.83942	11.02880	0.1197079	0.17103287	3.2142747	20	8 18.2	20.0
401725 2013 JS_3	15.7	X	98.05159	143.23824	69.68126	16.31939	0.0636411	0.17819611	3.1275474	20	9 3.3	20.5
401726 2013 JG_4	15.3	X	297.94067	317.97703	74.50480	10.24379	0.0763186	0.17350371	3.1836858	20	9 7.9	19.7
401727 2013 JR_4	15.7	X	314.81435	136.77852	226.67935	12.80596	0.0270591	0.17514134	3.1638090	20	8 19.3	20.3
401728 2013 JE_9	17.0	X	299.44143	286.14117	217.19233	10.73798	0.2191646	0.23282001	2.6169123	20	—	—
401729 2013 JZ_{14}	16.2	X	40.53089	24.14890	263.62380	8.25712	0.0809513	0.19698062	2.9254121	20	9 17.7	20.3
401730 2013 JF_{16}	16.2	X	178.42156	81.51952	53.87518	9.97463	0.0780792	0.17849929	3.1240050	20	8 23.9	21.1
401731 2013 JH_{20}	16.9	X	258.41721	194.69282	309.54752	2.45607	0.0352519	0.21035725	2.8000410	20	12 11.8	20.6
401732 2013 JD_{23}	16.0	X	37.19262	179.75978	136.45058	1.44092	0.1670224	0.17960183	3.1112067	20	11 2.8	20.1
401733 2013 JX_{23}	15.2	X	9.95976	270.84729	62.81024	11.06962	0.0544595	0.18134244	3.0912662	20	10 8.2	19.4
401734 2013 JW_{24}	16.0	X	26.79476	222.42550	58.86472	3.89880	0.0477164	0.16986802	3.2289524	20	8 19.8	20.3
401735 2013 JE_{26}	15.2	X	151.79036	311.07431	203.74645	18.69115	0.1072591	0.17053337	3.2205482	20	8 10.1	20.5
401736 2013 JK_{32}	15.7	X	19.76907	177.60599	143.58159	7.97558	0.0662095	0.17413473	3.1759900	20	10 3.3	19.9
401737 2013 JB_{33}	16.6	X	36.00156	271.31991	111.64529	6.97815	0.0570431	0.22043723	2.7140182	20	—	—
401738 2013 JB_{35}	15.6	X	148.90087	323.98370	235.34293	7.51485	0.1106763	0.18828894	3.0147607	20	10 4.7	20.4
401739 2013 JN_{35}	15.4	X	228.37379	208.50779	239.17662	14.85300	0.0457063	0.17295953	3.1903602	20	8 11.5	20.3
401740 2013 JP_{37}	15.6	X	99.21025	83.30114	128.04038	22.81081	0.1151952	0.17779574	3.1322408	20	9 3.7	20.5
401741 2013 JZ_{42}	15.7	X	46.50082	271.66026	45.71070	10.45973	0.0842955	0.18776129	3.0204062	20	11 5.7	19.9
401742 2013 JE_{43}	16.3	X	127.42438	323.48901	241.57294	3.82449	0.0966859	0.18156905	3.0886937	20	9 19.4	21.0
401743 2013 JM_{50}	16.3	X	345.85941	136.95475	216.70404	11.15553	0.0774031	0.18149815	3.0894980	20	9 21.8	20.3
401744 2013 JN_{51}	16.7	X	46.14599	172.28737	202.45817	5.85518	0.0352807	0.21286498	2.7780064	20	—	—
401745 2013 JV_{51}	17.2	X	153.51274	226.55383	139.97446	5.11828	0.0928337	0.25696260	2.4503198	20	2 9.0	20.7
401746 2013 JL_{53}	16.2	X	345.07335	117.56669	225.45940	7.42435	0.0374792	0.17828039	3.1265616	20	9 5.6	20.6
401747 2013 JU_{54}	16.2	X	24.26304	247.17201	90.37782	4.73406	0.1411181	0.18382911	3.0633259	20	11 9.4	20.1
401748 2013 JT_{57}	16.1	X	10.56823	260.86470	80.51283	11.94551	0.0432469	0.18455011	3.0553421	20	10 18.9	20.4
401749 2013 JY_{58}	16.9	X	298.85457	321.46778	123.65481	3.11936	0.0373451	0.20313701	2.8660033	20	11 20.0	20.6
401750 2013 JE_{59}	16.7	X	149.54071	205.16337	81.76058	4.61934	0.0896220	0.21834368	2.7313391	20	—	—
401751 2013 JM_{60}	15.9	X	177.19447	260.46064	234.35432	10.17180	0.0676035	0.17540318	3.1606597	20	8 12.8	20.9
401752 2013 JW_{60}	16.2	X	15.28574	85.29231	235.61113	8.78791	0.1144064	0.17418308	3.1754022	20	9 25.6	20.4
401753 2013 JO_{61}	15.9	X	319.20404	353.18529	58.92875	9.89743	0.0773021	0.19091318	2.9870703	20	11 2.8	19.6
401754 2013 JN_{62}	16.0	X	20.59876	181.25182	140.87543	10.32939	0.1022531	0.18241064	3.0791861	20	10 12.6	20.1
401755 2013 KL	16.3	X	7.54848	126.79405	228.30969	10.94926	0.0475210	0.18970569	2.9997322	20	10 26.8	20.4
401756 2013 KW_3	15.8	X	57.13175	73.94216	219.46877	10.69371	0.0721267	0.18015899	3.1047889	20	10 15.9	20.2
401757 2013 KV_4	16.5	X	54.50009	63.65675	233.29117	3.29491	0.1141652	0.18254168	3.0777123	20	10 24.0	20.8
401758 2013 KY_6	16.8	X	353.19346	93.03771	57.47496	4.76126	0.0514870	0.24536586	2.5269304	20	1 4.8	19.8
401759 2013 KQ_9	16.2	X	253.27974	321.26442	148.72351	4.37967	0.0431045	0.18963950	3.0004301	20	10 19.8	20.3
401760 2013 KY_{12}	15.7	X	282.22923	345.20434	65.84175	7.35562	0.0598258	0.17604057	3.1530259	20	9 11.0	20.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
401761 2013 KM_{16}	15.5	X	23.29093	234.13624	103.10891	10.52004	0.0669340	0.18407553	3.0605914	20	11 1.2	19.7
401762 2013 LJ	16.0	X	25.99202	203.15720	102.29943	2.93101	0.0932957	0.17181921	3.2044604	20	9 23.8	20.2
401763 2013 LG_{4}	15.3	X	48.08306	198.81550	67.79225	12.50031	0.0308316	0.16888917	3.2414166	20	8 31.9	20.0
401764 2013 LV_{11}	15.8	X	235.35534	263.31773	206.30869	13.62707	0.0360104	0.17824453	3.1269810	20	9 22.4	20.3
401765 2013 LM_{18}	15.5	X	15.74416	186.18295	137.88782	10.34213	0.0857096	0.17452055	3.1713074	20	10 4.5	19.7
401766 2013 LY_{18}	15.9	X	244.60859	256.50519	195.59561	9.94217	0.0818242	0.17615382	3.1516743	20	9 5.4	20.6
401767 2013 LN_{25}	15.5	X	351.00641	116.11281	238.76788	20.63317	0.0390473	0.18051551	3.1006997	20	9 25.9	20.1
401768 2013 MK_{1}	15.7	X	298.86675	306.03870	116.57680	11.92923	0.0696555	0.18774304	3.0206019	20	10 21.4	19.8
401769 2013 MR_{7}	15.5	X	56.14965	32.70194	256.88204	10.34326	0.1145383	0.17832032	3.1260950	20	10 13.2	20.0
401770 2013 UX_{11}	16.6	X	244.17890	311.03581	43.80198	5.31670	0.2850672	0.23572004	2.5954044	20	4 18.0	21.0
401771 2014 BN_{43}	15.0	X	42.37373	287.08624	254.38461	23.92603	0.2348228	0.17299018	3.1899833	20	5 26.5	18.7
401772 2014 CU_{15}	15.5	X	26.91229	220.27830	332.04052	10.59050	0.0719817	0.17971165	3.1099391	20	4 21.1	19.7
401773 2014 CG_{19}	16.0	X	108.06023	137.12737	74.05535	10.55822	0.2082116	0.21953696	2.7214328	20	9 27.4	20.6
401774 2014 DS_{19}	16.2	X	317.96883	82.80397	198.17560	0.29508	0.1569282	0.17886350	3.1197627	20	4 28.0	20.1
401775 2014 DK_{31}	16.7	X	123.21821	17.62782	171.46879	5.56620	0.0820491	0.22021114	2.7158755	20	8 30.3	20.6
401776 2014 DU_{66}	16.3	X	66.22908	151.39227	130.33840	8.36811	0.0732883	0.22919075	2.6444660	20	10 26.2	20.0
401777 2014 DH_{123}	16.7	X	116.42525	28.49436	172.15733	13.15203	0.1188869	0.22023312	2.7156948	20	9 9.7	20.7
401778 2014 DW_{140}	15.9	X	40.52831	317.43925	247.34099	3.50881	0.1114969	0.18774484	3.0205826	20	6 6.6	19.7
401779 2014 EJ_{12}	16.5	X	116.06767	241.88707	35.54980	12.63615	0.1808818	0.24586202	2.5235297	20	12 17.9	20.8
401780 2014 ET_{19}	16.8	X	116.45188	177.48910	105.27246	3.46373	0.1768207	0.25032845	2.4934227	20	12 26.5	21.0
401781 2014 EM_{23}	15.8	X	127.80772	16.11514	54.43613	11.07615	0.0648161	0.17211636	3.2007711	20	4 8.6	20.6
401782 2014 FZ_{1}	15.9	X	102.31454	113.56890	48.18047	12.89929	0.0141186	0.19816911	2.9137039	20	6 19.9	20.1
401783 2014 FA_{13}	15.9	X	45.07615	66.47244	115.19844	6.30499	0.0821140	0.18150156	3.0894593	20	5 12.3	19.9
401784 2014 FP_{23}	16.5	X	134.44531	287.80340	219.16744	8.52832	0.1575326	0.20934808	2.8090322	20	7 21.8	21.1
401785 2014 FW_{41}	16.8	X	208.93869	70.50868	84.67906	16.86433	0.1445253	0.24045197	2.5612413	20	10 25.7	20.9
401786 2014 FS_{46}	17.6	X	247.51409	120.88320	144.90025	5.90992	0.1938539	0.28676735	2.2774538	20	1 4.2	21.2
401787 2014 FY_{53}	17.7	X	293.55234	133.76404	97.13566	4.69060	0.1370992	0.29776190	2.2210413	20	1 9.2	20.6
401788 2014 FB_{54}	15.3	X	34.81726	180.05846	95.22562	30.51384	0.3084806	0.18694444	3.0291981	20	10 19.5	20.0
401789 2014 FU_{57}	17.0	X	178.30844	37.08063	146.89595	5.53612	0.2137883	0.23397125	2.6083211	20	10 20.1	21.3
401790 2014 GF_{18}	17.8	X	212.53488	258.57124	6.90315	1.26631	0.1701175	0.27302586	2.3532434	20	—	—
401791 2014 GA_{28}	16.9	X	297.91703	134.74059	35.38007	7.51438	0.0522218	0.27637465	2.3341956	20	—	—
401792 2014 GM_{32}	15.9	X	15.31410	200.99043	50.02763	16.39015	0.0493821	0.18281048	3.0746947	20	6 22.7	20.1
401793 2014 HS_{1}	17.1	X	239.64912	37.98087	219.42750	5.02338	0.2148254	0.27802425	2.3249535	20	—	—
401794 2014 HF_{10}	17.2	X	159.65750	121.18029	55.71328	6.18742	0.1012648	0.21985133	2.7188380	20	9 26.9	21.4
401795 2014 HK_{13}	17.9	X	295.46790	318.60963	173.14219	2.41637	0.1280195	0.26231858	2.4168518	20	—	—
401796 2014 HS_{22}	15.2	X	182.49862	312.87113	116.67262	17.58952	0.0753711	0.17757794	3.1348015	20	6 5.8	20.2
401797 2014 HP_{26}	16.3	X	183.51821	143.69368	43.79988	13.90443	0.0994361	0.23577791	2.5949797	20	11 3.8	20.1
401798 2014 HK_{32}	17.0	X	63.32371	211.87137	61.63128	4.41843	0.0095694	0.21454027	2.7635257	20	9 28.4	20.7
401799 2014 HZ_{121}	17.2	X	189.06924	31.41203	135.09592	2.81453	0.1290005	0.22991718	2.6388929	20	10 12.2	21.2
401800 2014 HS_{128}	16.4	X	153.08497	101.17589	128.57237	14.05359	0.1304489	0.23441442	2.6050326	20	11 26.7	20.8
401801 2014 HS_{129}	16.4	X	143.00955	110.63389	59.43547	24.85488	0.2254205	0.21269985	2.7794440	20	9 16.0	21.7
401802 2014 HM_{130}	16.2	X	291.28471	215.82480	158.25473	6.04056	0.0510023	0.20958357	2.8069277	20	8 6.2	19.9
401803 2014 HB_{156}	16.4	X	151.39702	82.02700	82.29220	4.89780	0.0373402	0.20834745	2.8180190	20	8 30.5	20.4
401804 2014 HR_{162}	16.5	X	99.77098	128.25904	145.21894	4.36694	0.1889357	0.22365296	2.6879403	20	11 28.3	20.8
401805 2014 HK_{172}	16.1	X	88.81495	222.99831	78.92016	10.89417	0.1908234	0.22854944	2.6494106	20	12 22.0	20.3
401806 2014 HN_{176}	14.9	X	343.83387	207.46831	83.89981	24.69278	0.0887429	0.18045501	3.1013926	20	6 28.9	18.9
401807 2014 HP_{179}	16.6	X	165.25976	354.71946	215.40201	13.87355	0.0653335	0.23198367	2.6231982	20	11 14.1	20.4
401808 2014 JB_{24}	17.3	X	172.06232	237.52010	115.78012	5.53810	0.0829523	0.29085348	2.2560733	20	2 8.6	20.3
401809 3195 $T–2$	18.0	X	204.24961	262.05525	54.07279	2.77377	0.4106256	0.26444279	2.4038917	20	2 3.5	22.7
401810 3165 $T–3$	17.0	X	160.87140	350.88511	27.11658	8.41926	0.2386784	0.26469059	2.4023911	20	3 15.3	21.0
401811 1981 EM_{36}	16.8	X	260.20470	209.25720	292.19130	8.58402	0.2095829	0.21754938	2.7379834	20	11 15.3	20.5
401812 1994 AV_{8}	17.9	X	74.88354	271.24991	121.88098	5.19823	0.1510006	0.26247693	2.4158796	20	—	—
401813 1994 RB_{5}	18.0	X	202.12522	18.44550	17.27327	7.95637	0.1101453	0.29282210	2.2459504	20	5 6.8	21.2
401814 1994 WQ_{8}	18.2	X	177.04653	274.23860	146.67517	5.35908	0.1320932	0.28942491	2.2634910	20	5 17.6	21.6
401815 1995 ME_{8}	17.0	X	94.38550	194.90648	128.93326	9.14970	0.2209588	0.21369600	2.7707996	20	—	—
401816 1995 SL_{76}	19.3	X	183.95306	3.68832	63.01992	1.90448	0.1199969	0.30534644	2.1841082	20	5 31.1	22.1
401817 1995 SX_{77}	18.7	X	194.54085	298.24164	119.36189	1.94722	0.1662227	0.30526908	2.1844771	20	5 29.2	22.0
401818 1995 UR_{21}	17.5	X	25.95923	351.70888	1.03585	1.72365	0.0875347	0.20010546	2.8948769	20	11 25.5	21.4
401819 1995 UD_{43}	17.7	X	173.29867	97.97730	225.10814	0.80236	0.1972404	0.25452434	2.4659438	20	1 14.9	21.5
401820 1996 SP_{7}	16.6	X	89.24488	113.52393	244.73072	8.27638	0.3181651	0.21819564	2.7325744	20	—	—
401821 1997 SM_{7}	15.9	X	325.81883	53.94002	357.43794	9.21816	0.0915674	0.17611819	3.1520994	20	11 2.9	20.0
401822 1997 YC_{18}	16.5	X	323.32711	150.31837	300.86197	7.05062	0.1865050	0.21379020	2.7699856	20	—	—
401823 1998 QC_{60}	16.3	X	48.89202	332.11333	356.77321	8.91463	0.1320779	0.18489655	3.0515243	20	11 26.4	20.8
401824 1998 QG_{71}	17.5	X	306.42859	7.07610	300.20692	7.06119	0.2513372	0.30823094	2.1704605	20	4 19.1	20.0
401825 1998 RH_{9}	16.9	X	345.72539	209.83442	158.20215	0.82510	0.2180612	0.18108338	3.0942138	20	10 19.5	19.8
401826 1998 RR_{11}	15.9	X	23.95906	303.81654	11.02759	11.21504	0.2289891	0.18009364	3.1055401	20	10 19.7	19.6
401827 1998 SH_{13}	17.6	X	119.90683	355.89641	31.17358	7.98619	0.2626313	0.24439696	2.5336047	20	2 23.3	21.4
401828 1998 SC_{31}	16.2	X	46.27373	324.48256	345.34450	9.50273	0.0579391	0.18362050	3.0656456	20	10 18.7	20.5
401829 1998 SX_{31}	18.1	X	123.51649	325.04517	52.84956	0.53769	0.2136247	0.24464043	2.5319234	20	2 6.3	21.7
401830 1998 SZ_{126}	15.9	X	1.36482	322.92616	40.35507	9.07493	0.2255308	0.18081136	3.0973164	20	11 13.8	19.3
401831 1998 TD_{9}	15.8	X	294.39898	27.90013	28.96543	10.10050	0.0559005	0.17722462	3.1389665	20	10 3.7	20.0
401832 1998 TO_{21}	17.5	X	47.20483	174.73490	228.74476	1.87752	0.0495139	0.23528424	2.5986083	20	—	—
401833 1998 WA_{36}	16.2	X	356.89941	297.95451	44.61946	10.72552	0.1138763	0.17622807	3.1507891	20	10 2.7	20.1
401834 1999 TB_{167}	16.9	X	177.73068	3.95476	327.97876	5.97409	0.1457483	0.25815238	2.4427853	20	1 27.1	20.6
401835 1999 TC_{263}	17.2	X	213.89477	260.64076	24.86031	6.88734	0.0989592	0.25523920	2.4613373	20	1 4.1	20.9
401836 1999 TX_{295}	15.3	X	211.89132	44.57726	354.35907	2.36065	0.2664101	0.12527641	3.9556984	20	5 17.5	21.9
401837 1999 UV_{21}	17.0	X	26.87113	177.90355	172.27487	0.49275	0.1297151	0.19045241	2.9918862	20	11 27.6	20.7
401838 1999 UO_{32}	16.0	X	280.68319	48.26166	42.33078	7.47909	0.1292750	0.18726194	3.0257732	20	10 18.9	19.7
401839 1999 UE_{54}	17.1	X	338.78003	174.41347	215.97729	4.71713	0.1969020	0.18736012	3.0247160	20	11 5.7	20.2
401840 1999 UH_{56}	18.0	X	183.23509	169.33109	203.20132	1.65742	0.3124705	0.26255985	2.4153710	20	3 24.8	22.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
401841 1999 VZ_{75}	18.0	X	149.56483	326.00305	82.12919	2.16257	0.1891682	0.25951363	2.4342355	20	4 7.0	21.8
401842 1999 VF_{84}	17.9	X	171.92759	193.83798	183.16484	0.95208	0.2085881	0.26279633	2.4139217	20	3 18.9	21.9
401843 1999 VH_{88}	16.1	X	242.90051	165.74278	208.53033	2.29326	0.3096742	0.12658707	3.9283468	20	5 10.2	22.6
401844 1999 VM_{105}	17.7	X	109.59786	10.98439	31.48302	0.22511	0.2081410	0.25362210	2.4717886	20	2 19.6	21.0
401845 1999 VW_{116}	16.1	X	219.38018	351.94650	38.19474	3.28075	0.2311904	0.12580513	3.9446077	20	5 14.9	22.5
401846 1999 WN_{5}	16.0	X	183.28144	84.90455	63.54132	12.25903	0.0971658	0.17961576	3.1110459	20	9 15.4	21.0
401847 1999 WW_{19}	16.8	X	331.97084	77.25379	357.92841	7.66795	0.4791424	0.18848089	3.0127135	20	—	—
401848 1999 WE_{21}	16.0	X	222.83461	329.31816	54.63366	5.03964	0.3089975	0.12413956	3.9798122	20	5 7.2	22.7
401849 1999 XY_{77}	16.9	X	15.82959	322.41525	59.49769	1.52163	0.3361908	0.19088335	2.9873815	20	—	—
401850 2000 AC_{90}	14.7	X	190.69673	216.68313	289.00345	26.79792	0.1507910	0.17431919	3.1737490	20	8 26.2	20.3
401851 2000 AE_{207}	17.9	X	50.81188	257.27673	259.51391	0.83200	0.2126192	0.30004348	2.2097675	20	4 26.5	19.4
401852 2000 AJ_{219}	17.3	X	276.26651	63.64353	98.33535	4.12759	0.1458757	0.23527100	2.5987058	20	—	—
401853 2000 DB_{58}	16.9	X	272.02392	205.44565	333.76415	11.80861	0.0994413	0.23331904	2.6131796	20	—	—
401854 2000 ER_{3}	16.5	X	204.57534	235.95295	353.10227	13.98321	0.1346246	0.22924590	2.6440419	20	—	—
401855 2000 HW_{79}	17.2	X	181.65431	66.18997	162.11604	14.44855	0.3093034	0.22206901	2.7007067	20	12 6.9	22.3
401856 2000 KW_{43}	20.2	X	197.76019	63.53014	82.68403	24.27617	0.4780579	0.56312125	1.4523394	20	10 15.7	22.4
401857 2000 PG_{3}	16.1	X	33.18526	141.16839	323.61681	22.01816	0.8557190	0.20766166	2.8242198	20	5 26.6	19.7
401858 2000 QJ_{54}	17.4	X	233.81837	356.96987	350.62830	8.27134	0.2892266	0.28267801	2.2993656	20	3 27.7	21.4
401859 2000 QZ_{69}	17.3	X	197.12774	41.90740	333.20647	9.47952	0.2339596	0.28020728	2.3128623	20	4 1.9	21.3
401860 2000 QP_{93}	17.9	X	240.50031	38.11596	300.62718	3.98908	0.2413066	0.28324551	2.2962933	20	3 24.2	21.6
401861 2000 RB_{36}	17.9	X	226.51251	188.56498	169.47752	6.20146	0.2489103	0.28105814	2.3081920	20	4 8.8	21.8
401862 2000 SA_{41}	17.7	X	216.67562	14.23728	348.10640	6.27039	0.2105890	0.28070686	2.3101173	20	4 4.5	21.5
401863 2000 SM_{101}	17.2	X	62.69041	229.46552	153.23051	9.53766	0.2988890	0.21074944	2.7965662	20	—	—
401864 2000 SP_{296}	17.4	X	223.38390	58.28815	291.46289	5.16235	0.2102672	0.28025583	2.3125952	20	3 24.4	21.2
401865 2000 TT_{1}	17.6	X	214.45527	1.02659	9.38838	10.42743	0.1581422	0.28022778	2.3127495	20	4 14.6	21.1
401866 2000 TF_{24}	16.3	X	2.37020	93.20663	309.14321	13.61071	0.1531408	0.20360109	2.8616465	20	—	—
401867 2000 TM_{25}	17.4	X	190.19886	316.63162	38.92739	4.52450	0.1689723	0.27512006	2.3412864	20	3 8.3	21.1
401868 2000 VS_{41}	18.2	X	208.07709	32.02501	345.79228	3.68142	0.2830683	0.27943748	2.3171080	20	4 15.6	22.3
401869 2000 VZ_{51}	16.8	X	14.87783	141.83931	255.01364	6.88897	0.3291622	0.20323578	2.8650746	20	—	—
401870 2000 WZ_{10}	15.9	X	245.91010	352.60609	102.21640	12.96325	0.0935363	0.18593332	3.0401702	20	9 18.2	20.5
401871 2000 WA_{44}	17.7	X	187.04182	312.97173	87.56511	7.87655	0.3241979	0.27713606	2.3299183	20	5 2.4	22.0
401872 2001 BR_{70}	15.5	X	124.25616	208.39340	307.90422	21.92841	0.2124842	0.17217787	3.2000087	20	7 28.5	20.8
401873 2001 CF_{17}	16.1	X	176.81514	33.53968	122.11700	11.55673	0.2463925	0.18068654	3.0987427	20	9 10.6	21.6
401874 2001 FN_{60}	15.7	X	146.60070	169.87183	3.42374	17.50730	0.1467935	0.17528943	3.1620270	20	9 7.4	20.9
401875 2001 KW_{9}	16.8	X	177.24832	195.61716	75.88596	8.57080	0.2002662	0.23576031	2.5951089	20	—	—
401876 2001 OH_{17}	16.4	X	120.80939	59.08599	292.53457	7.69863	0.1959649	0.23107888	2.6300412	20	1 1.3	20.1
401877 2001 ON_{32}	16.8	X	155.65834	70.82536	298.39023	9.84098	0.2788234	0.23753620	2.5821582	20	2 27.3	21.4
401878 2001 OS_{83}	16.3	X	73.59345	329.70177	66.54577	9.92306	0.2835885	0.22494704	2.6776216	20	1 6.2	18.9
401879 2001 OP_{91}	17.5	X	104.58941	60.59349	279.46917	14.26066	0.3460590	0.22557834	2.6726235	20	—	—
401880 2001 PY_{34}	16.0	X	59.95644	168.85468	243.47081	13.18519	0.2372190	0.22539269	2.6740909	20	—	—
401881 2001 QZ_{250}	16.2	X	136.73473	326.95783	4.62966	18.33562	0.2055170	0.22912820	2.6449473	20	—	—
401882 2001 QH_{283}	16.9	X	145.21962	73.45317	251.29141	11.60440	0.3150040	0.23000660	2.6382090	20	1 4.3	21.3
401883 2001 QU_{329}	17.0	X	39.44234	150.06061	218.45368	9.05515	0.2680805	0.21805701	2.7337325	20	—	—
401884 2001 QG_{333}	16.6	X	186.22524	301.43318	10.85398	15.03617	0.2055587	0.23460132	2.6036489	20	1 20.1	21.2
401885 2001 RV_{17}	20.5	X	354.02306	4.52895	153.91353	7.52433	0.3423999	1.12697618	0.9145193	20	—	—
401886 2001 RH_{28}	16.8	X	139.87361	298.83251	339.47727	11.08693	0.2077186	0.22470119	2.6795743	20	—	—
401887 2001 RA_{41}	17.6	X	61.75352	92.83455	297.93130	11.35129	0.2805464	0.22308402	2.6925085	20	—	—
401888 2001 RR_{56}	17.8	X	182.35322	232.10218	150.25563	1.94398	0.2526699	0.24034512	2.5620003	20	4 5.8	22.3
401889 2001 RA_{83}	16.9	X	117.12098	81.81416	274.07578	3.75695	0.2438041	0.22820709	2.6520597	20	1 8.9	20.6
401890 2001 RD_{85}	17.7	X	96.32822	94.16830	283.73897	3.95641	0.3092359	0.22718137	2.6600363	20	1 20.9	21.1
401891 2001 RW_{121}	16.8	X	59.34290	31.45642	5.39214	10.89362	0.2182398	0.22361629	2.6882342	20	—	—
401892 2001 SA_{5}	16.3	X	148.60765	272.33875	27.65140	23.32069	0.3964142	0.22642572	2.6659513	20	—	—
401893 2001 SR_{27}	17.0	X	78.06682	236.94852	177.46818	13.21050	0.2530156	0.22679857	2.6630287	20	1 30.7	20.2
401894 2001 SH_{85}	16.7	X	138.71952	336.94925	343.57112	14.43891	0.1159913	0.22764095	2.6564550	20	—	—
401895 2001 SA_{154}	18.0	X	262.98610	359.15328	6.93424	7.37044	0.1619499	0.30180270	2.2011719	20	5 31.7	20.8
401896 2001 SO_{184}	18.0	X	184.19500	257.28742	348.11437	18.09622	0.0763136	0.38220767	1.8804846	20	—	—
401897 2001 SM_{224}	16.9	X	75.78690	246.42615	165.59058	6.46692	0.1338546	0.22711172	2.6605802	20	1 7.4	20.0
401898 2001 SO_{269}	17.3	X	100.39356	16.32128	1.83377	4.04505	0.1444813	0.22650155	2.6653562	20	1 2.4	20.6
401899 2001 SD_{298}	15.8	X	87.03541	225.70853	178.84483	9.19916	0.0845973	0.17757764	3.1348049	20	1 16.3	20.2
401900 2001 SZ_{301}	16.6	X	224.22161	214.18501	195.03875	9.23490	0.0873195	0.19650053	2.9301751	20	6 21.8	21.1
401901 2001 SX_{307}	17.1	X	38.82278	42.04608	13.74394	6.40318	0.1784879	0.22215117	2.7000407	20	—	—
401902 2001 TF_{20}	15.6	X	131.48191	150.53167	236.88398	13.97760	0.3065232	0.23055666	2.6340111	20	3 1.3	20.3
401903 2001 TW_{22}	16.6	X	117.54701	189.65051	207.50736	8.14961	0.0833588	0.23119854	2.6291336	20	2 4.8	20.3
401904 2001 TA_{84}	17.8	X	64.95608	137.98212	255.85800	5.65626	0.2728004	0.22285036	2.6943902	20	—	—
401905 2001 TY_{101}	16.5	X	70.43395	11.42803	355.43316	4.70517	0.1708533	0.22006107	2.7171101	20	—	—
401906 2001 TE_{126}	17.6	X	130.10471	349.93830	305.12934	1.50366	0.1565006	0.22201905	2.7011117	20	—	—
401907 2001 TE_{136}	16.6	X	80.26404	69.32112	346.39242	12.08413	0.2579655	0.22656637	2.6648478	20	2 11.6	19.7
401908 2001 TO_{158}	16.8	X	75.09444	347.27896	24.51479	13.41661	0.1493182	0.22329925	2.6907780	20	—	—
401909 2001 TR_{163}	16.9	X	98.97944	332.35777	43.23707	5.59679	0.1381740	0.22583613	2.6705893	20	—	—
401910 2001 UJ_{71}	18.0	X	239.09378	312.44193	42.57275	3.00862	0.2433148	0.29634379	2.2281213	20	4 14.4	21.4
401911 2001 UF_{77}	16.5	X	98.45032	319.19665	56.28221	9.13201	0.2372860	0.22413680	2.6840706	20	1 11.5	20.0
401912 2001 UG_{108}	18.8	X	229.86147	322.60747	57.37431	3.50942	0.2403503	0.29723497	2.2236654	20	5 8.5	22.4
401913 2001 UE_{120}	18.2	X	199.82780	2.47228	48.66673	6.85404	0.1842543	0.29600771	2.2298075	20	5 24.2	21.6
401914 2001 UZ_{128}	17.5	X	62.90230	244.96669	158.56425	3.39247	0.3245995	0.22331779	2.6906291	20	—	—
401915 2001 UD_{187}	18.2	X	255.94779	318.41832	37.03687	5.47126	0.1897063	0.30039291	2.2080535	20	5 5.5	21.2
401916 2001 VV_{38}	17.8	X	80.64327	168.69933	240.85812	7.49239	0.1872574	0.27692703	2.3310906	20	1 6.9	19.9
401917 2001 VG_{128}	17.9	X	267.46967	219.94446	102.21818	7.61295	0.2113233	0.29728802	2.2234009	20	4 5.3	21.1
401918 2001 WF_{37}	17.0	X	58.87595	273.87252	82.19367	4.04648	0.2104768	0.21565658	2.7539808	20	—	—
401919 2001 WW_{53}	17.6	X	83.66343	333.05259	23.14071	2.72814	0.1858321	0.21947111	2.7219771	20	—	—
401920 2001 WD_{87}	16.6	X	49.59522	111.65360	261.39481	4.03087	0.1891045	0.21692651	2.7432221	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
401921 2001 XL_6	16.0	X	58.57062	88.16383	303.80846	28.78276	0.4244194	0.21735040	2.7396542	20	—	—
401922 2001 XJ_{45}	17.7	X	55.52166	83.72102	332.67222	6.45744	0.3041788	0.21952777	2.7215087	20	—	—
401923 2001 XV_{166}	17.9	X	243.22122	192.50470	196.75039	2.48717	0.2124718	0.29740582	2.2228137	20	6 5.4	21.1
401924 2001 YZ_{50}	16.8	X	45.63962	143.53079	275.36675	8.27993	0.2977575	0.21836341	2.7311746	20	—	—
401925 2002 AT_{15}	18.4	X	50.10619	266.47491	108.43181	36.38203	0.4750192	0.37807710	1.8941563	20	—	—
401926 2002 AF_{167}	16.2	X	54.25010	109.53600	311.22623	9.77575	0.3721944	0.21653189	2.7465539	20	1 16.5	17.9
401927 2002 AH_{178}	17.4	X	126.29308	108.41079	322.37915	10.95845	0.1869200	0.28076873	2.3097779	20	4 4.8	20.9
401928 2002 CF_{10}	17.6	X	281.22548	104.94692	340.19420	18.38374	0.1109090	0.35848948	1.9625396	20	11 23.9	19.6
401929 2002 CC_{88}	17.2	X	54.50388	313.25722	114.85374	5.53486	0.2887205	0.21709892	2.7417695	20	1 13.2	19.1
401930 2002 CK_{150}	16.3	X	243.39149	89.44923	48.47826	2.87014	0.0656823	0.19749784	2.9203023	20	11 7.9	20.1
401931 2002 CU_{156}	17.7	X	52.26920	190.26002	323.76514	6.83701	0.1352741	0.27973705	2.3154534	20	4 10.1	20.1
401932 2002 CD_{182}	17.6	X	177.43307	85.27096	328.47702	6.81224	0.1021172	0.28533183	2.2850861	20	5 3.2	20.9
401933 2002 CR_{201}	17.9	X	106.73121	104.38613	340.87802	5.30603	0.1566329	0.27851310	2.3222322	20	4 1.3	20.7
401934 2002 CA_{206}	17.9	X	325.99923	23.86363	146.17985	5.50838	0.1571000	0.26646317	2.3917251	20	—	—
401935 2002 CW_{208}	17.7	X	11.48719	101.89639	30.40646	2.03909	0.1350861	0.26902292	2.3765294	20	—	—
401936 2002 CN_{260}	16.6	X	36.69156	262.60984	134.36703	11.33723	0.3264301	0.21055987	2.7982444	20	—	—
401937 2002 CF_{314}	17.5	X	320.67664	42.77337	147.87268	10.10188	0.0574989	0.26835070	2.3804965	20	1 6.6	20.5
401938 2002 EY_{47}	16.4	X	203.96611	151.28234	344.91189	8.82672	0.1171237	0.18910416	3.0060901	20	9 13.9	21.0
401939 2002 EH_{51}	16.5	X	295.23688	71.71767	351.56131	9.24042	0.0305966	0.19194092	2.9763980	20	10 13.1	20.6
401940 2002 EK_{76}	16.2	X	55.88388	278.84070	351.06196	11.59565	0.0551398	0.18441456	3.0568391	20	9 14.2	20.4
401941 2002 EL_{95}	17.0	X	179.98919	57.18526	354.42362	5.59415	0.1593401	0.28347799	2.2950377	20	5 5.0	20.6
401942 2002 EP_{143}	17.9	X	266.45531	197.66335	25.73528	2.34753	0.1743713	0.26175654	2.4203101	20	—	—
401943 2002 GE_{115}	17.8	X	31.07945	355.50999	170.53693	8.74776	0.1385834	0.27269231	2.3551620	20	3 23.7	19.7
401944 2002 GT_{187}	17.4	X	279.20244	174.08723	46.93683	5.91949	0.1763116	0.26254492	2.4154625	20	—	—
401945 2002 JA_{118}	17.2	X	220.20557	125.22295	156.55639	9.88398	0.2505789	0.25643144	2.4537023	20	1 4.0	21.6
401946 2002 JC_{150}	17.5	X	208.72392	209.58733	72.37157	8.25676	0.1080370	0.25669777	2.4520048	20	—	—
401947 2002 PH_2	15.7	X	70.51221	53.43134	245.15518	13.46597	0.2573466	0.17484638	3.1673662	20	11 29.0	20.6
401948 2002 PS_{179}	17.6	X	158.19252	212.54692	161.96120	6.99779	0.2183499	0.25136147	2.4865866	20	3 5.8	21.6
401949 2002 QT_{70}	16.6	X	342.30375	56.66199	322.28537	1.78069	0.1580107	0.16916315	3.2379157	20	10 20.4	20.2
401950 2002 QW_{81}	17.9	X	110.86029	282.76957	94.41566	4.30833	0.1879577	0.24322472	2.5417387	20	1 18.4	21.2
401951 2002 QT_{111}	16.7	X	174.84759	240.32214	305.20317	9.68269	0.1225230	0.22800727	2.6536089	20	10 15.5	21.1
401952 2002 QN_{122}	17.3	X	187.26005	224.37690	54.50980	2.36565	0.1395790	0.24602426	2.5224201	20	—	—
401953 2002 RW_5	16.2	X	160.32790	338.85455	317.33037	13.80208	0.0923587	0.24041140	2.5615294	20	—	—
401954 2002 RW_{25}	18.8	X	84.64367	72.12525	91.96944	1.34926	0.2865159	1.31588891	0.8247517	20	—	—
401955 2002 RY_{28}	16.7	X	89.06996	176.84252	184.30732	5.03446	0.2324126	0.23914822	2.5705414	20	—	—
401956 2002 RK_{29}	17.4	X	99.20037	36.76398	298.17874	3.78014	0.2676279	0.23665080	2.5885947	20	—	—
401957 2002 RJ_{241}	17.4	X	89.26306	156.71000	218.28673	3.50872	0.0843624	0.24026163	2.5625938	20	—	—
401958 2002 RY_{248}	16.0	X	279.72108	30.87173	345.95536	9.46531	0.0643285	0.15807918	3.3875544	20	7 22.2	20.8
401959 2002 RJ_{250}	17.3	X	113.83707	4.60261	7.17970	1.96647	0.1676444	0.24477545	2.5309922	20	1 11.9	20.6
401960 2002 RL_{262}	16.9	X	21.76865	217.54653	237.60549	4.05192	0.2420531	0.23701152	2.5859676	20	—	—
401961 2002 RO_{278}	15.8	X	5.06580	38.98825	359.04324	15.05743	0.1889239	0.17220876	3.1996261	20	12 29.7	20.0
401962 2002 ST_{21}	17.7	X	111.44216	18.81058	12.56218	3.57318	0.2418939	0.24283717	2.5444423	20	2 14.8	21.1
401963 2002 SW_{21}	17.3	X	125.78932	354.55818	13.87810	6.27896	0.2179263	0.24282609	2.5445197	20	1 30.6	21.0
401964 2002 SA_{40}	17.0	X	125.92695	307.85775	27.33894	12.36740	0.2065272	0.23957481	2.5674891	20	—	—
401965 2002 TJ_{99}	17.6	X	98.95089	62.55006	324.03798	11.56261	0.2559204	0.24071059	2.5594064	20	1 27.1	20.8
401966 2002 TP_{132}	16.9	X	46.82738	162.91957	268.30294	3.73217	0.2254564	0.23640355	2.5903994	20	—	—
401967 2002 TK_{135}	17.4	X	105.04001	270.54347	92.48515	5.88219	0.2749440	0.23798985	2.5788758	20	1 6.5	20.6
401968 2002 TE_{138}	18.7	X	142.09799	35.71723	338.30509	5.92876	0.4296380	0.24539205	2.5267507	20	3 6.5	23.4
401969 2002 TY_{144}	17.6	X	108.03448	285.63289	107.18886	8.28419	0.3095216	0.24132994	2.5550256	20	2 23.1	21.3
401970 2002 TB_{185}	17.4	X	133.45607	15.14084	339.92849	3.74909	0.2731544	0.24282315	2.5445402	20	1 26.8	21.3
401971 2002 TE_{195}	17.3	X	75.48494	43.33218	29.13824	7.24628	0.3218568	0.23897935	2.5717523	20	3 6.9	20.1
401972 2002 TN_{199}	15.4	X	97.03275	123.37748	272.98893	27.47081	0.2600312	0.23669036	2.5883063	20	1 26.5	19.1
401973 2002 TC_{251}	17.1	X	49.89817	3.52727	42.70859	14.72477	0.2383827	0.23220872	2.6215031	20	—	—
401974 2002 TG_{257}	17.6	X	83.90199	6.56478	41.63022	6.67171	0.3070695	0.23833692	2.5763716	20	2 13.4	20.6
401975 2002 TJ_{273}	17.9	X	134.27009	91.72643	272.11160	2.71164	0.3086321	0.24327387	2.5413964	20	2 8.8	22.1
401976 2002 TO_{336}	17.3	X	106.41548	307.69370	64.32618	3.96619	0.1137671	0.23969363	2.5666406	20	—	—
401977 2002 TZ_{380}	17.4	X	152.09473	305.07273	5.22829	4.69560	0.1930490	0.24039153	2.5616705	20	—	—
401978 2002 UL_{16}	17.3	X	112.76307	262.15281	122.90694	4.96496	0.2701092	0.24073349	2.5592441	20	2 11.6	20.8
401979 2002 UC_{32}	18.7	X	138.34778	32.97630	343.27210	5.85707	0.3749923	0.24492849	2.5299378	20	3 3.6	23.0
401980 2002 VV_{42}	17.9	X	91.63160	344.33014	62.81609	5.46037	0.2779525	0.23914064	2.5705958	20	2 17.6	21.1
401981 2002 VK_{43}	17.2	X	75.32838	187.33681	179.73786	5.25478	0.2912149	0.23289033	2.6163856	20	—	—
401982 2002 VO_{61}	17.9	X	72.13959	137.89598	269.55856	3.11680	0.2926264	0.23616712	2.5921279	20	1 16.9	20.2
401983 2002 VE_{73}	17.9	X	122.37320	200.69933	198.45286	4.47559	0.2876960	0.24299146	2.5433651	20	3 9.8	21.9
401984 2002 VU_{115}	17.6	X	54.48374	338.06945	83.22417	5.37959	0.2552635	0.23445801	2.6047098	20	—	—
401985 2002 VA_{120}	17.9	X	302.15465	188.15293	252.40198	19.41677	0.0584529	0.38697659	1.8650032	20	—	—
401986 2002 VX_{142}	17.3	X	91.84066	289.96663	73.84256	5.91163	0.1566389	0.23370603	2.6102941	20	—	—
401987 2002 WE_1	17.8	X	48.63730	79.70449	239.54576	18.80463	0.0344149	0.38638486	1.8669068	20	12 19.9	19.7
401988 2002 WD_{26}	18.0	X	64.13437	344.81345	84.79364	7.03517	0.0599899	0.29264932	2.2468343	20	—	—
401989 2002 WN_{31}	17.1	X	108.47233	292.25936	114.06508	5.28331	0.1905380	0.23966290	2.5668600	20	2 23.8	20.5
401990 2002 XR_{51}	17.1	X	109.87965	316.78562	87.87586	2.42853	0.2443480	0.23971546	2.5664847	20	3 1.4	20.7
401991 2002 YZ_{11}	14.9	X	83.13268	83.80977	312.33826	27.77838	0.3430313	0.23128599	2.6284708	20	1 31.8	17.9
401992 2003 AC_5	18.0	X	63.06672	276.13628	142.52446	5.66183	0.3506300	0.23418011	2.6067700	20	1 24.9	19.8
401993 2003 AB_{94}	17.2	X	44.06931	101.66193	342.40584	12.86049	0.2653235	0.23028625	2.6360727	20	1 5.3	19.4
401994 2003 BS_{27}	16.6	X	104.79946	271.79074	151.93852	11.80592	0.3980164	0.23765374	2.5813067	20	4 9.7	20.8
401995 2003 CR_3	16.8	X	24.86532	129.59175	333.09276	12.83922	0.2130789	0.22776756	2.6554704	20	—	—
401996 2003 FJ_{95}	16.2	X	84.32242	317.92568	193.68154	19.12326	0.1792128	0.18166057	3.0876562	20	6 8.8	20.9
401997 2003 GH_{56}	17.2	X	261.77087	187.50225	84.23098	6.22222	0.1554969	0.28051328	2.3111800	20	1 29.3	20.7
401998 2003 MO	18.4	X	30.90013	164.63026	240.08618	21.43392	0.8757621	0.35654241	1.9696781	20	—	—
401999 2003 NG	17.6	X	246.32437	163.82042	122.31997	5.55655	0.2744580	0.27305084	2.3530999	20	1 26.2	21.6
402000 2003 OK_{32}	16.8	X	15.77898	359.60446	319.55161	6.59859	0.1074738	0.17926242	3.1151326	20	9 24.8	20.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
402001 2003 PR_{8}	15.9	X	34.59996	27.00950	307.04150	12.64694	0.2552429	0.18287849	3.0739323	20	12 3.4	20.3
402002 2003 QL	16.2	X	4.50757	9.54893	321.48804	9.68228	0.2172023	0.17688867	3.1429396	20	10 1.1	19.7
402003 2003 QG_{10}	15.8	X	31.31661	174.63805	149.56808	18.89059	0.1936377	0.18003486	3.1062160	20	11 13.7	20.2
402004 2003 QU_{32}	16.3	X	358.04216	9.11165	327.75344	13.59084	0.3088163	0.17561632	3.1581018	20	10 3.3	19.3
402005 2003 QV_{34}	15.2	X	26.52342	329.73221	329.84527	12.50794	0.1724811	0.17700533	3.1415586	20	9 22.2	19.2
402006 2003 QY_{34}	15.9	X	12.24905	13.55635	340.31133	15.31801	0.2278006	0.17959773	3.1112541	20	11 16.1	19.9
402007 2003 QZ_{51}	15.6	X	344.48665	33.22143	344.48234	18.14936	0.2273273	0.17824041	3.1270292	20	10 19.9	19.0
402008 2003 QZ_{69}	17.7	X	144.36052	148.95770	267.79628	3.94498	0.1851763	0.26762630	2.3847903	20	4 9.4	21.5
402009 2003 QV_{94}	15.6	X	331.29641	55.52683	320.90172	26.36457	0.2704886	0.17429779	3.1740089	20	9 9.8	18.9
402010 2003 QP_{104}	16.8	X	80.26255	80.36830	353.15767	12.97195	0.3824093	0.25522279	2.4614428	20	3 19.5	19.7
402011 2003 RN_{7}	16.9	X	193.87973	23.59444	343.23148	10.92316	0.2589810	0.26751829	2.3854321	20	3 22.4	21.0
402012 2003 RF_{15}	15.9	X	11.37749	63.73955	281.99280	9.78150	0.2033444	0.17768171	3.1335808	20	11 2.5	19.7
402013 2003 RZ_{24}	17.9	X	237.99030	156.63038	150.58359	2.85640	0.2250143	0.27056696	2.3674794	20	2 16.1	21.8
402014 2003 RA_{27}	15.6	X	11.58693	5.07720	323.30537	8.49555	0.0765365	0.17433578	3.1735477	20	9 25.7	19.9
402015 2003 SY_{24}	16.3	X	305.54727	74.22125	315.69708	7.75581	0.2112902	0.17134753	3.2103385	20	8 22.7	20.0
402016 2003 SB_{28}	17.4	X	116.48728	167.25593	240.67145	3.95481	0.2124116	0.26019745	2.4299688	20	3 3.5	20.7
402017 2003 SD_{32}	16.8	X	106.56630	101.19361	306.36165	10.64380	0.1877781	0.25805773	2.4433826	20	2 16.4	19.9
402018 2003 SK_{34}	15.8	X	354.38025	317.98127	6.22698	10.23091	0.0440581	0.17052956	3.2205961	20	8 30.9	20.1
402019 2003 SE_{39}	17.3	X	218.60105	341.46921	349.82538	2.64374	0.2260755	0.26875105	2.3781319	20	3 1.1	21.4
402020 2003 SU_{54}	16.2	X	1.53432	136.08868	211.69421	9.62339	0.2231024	0.17581048	3.1557763	20	10 23.2	19.5
402021 2003 SY_{59}	15.9	X	349.33233	184.81056	166.77309	29.53061	0.2009637	0.17436845	3.1731512	20	10 3.8	19.4
402022 2003 SK_{83}	18.2	X	201.63765	253.28594	50.72496	1.73043	0.1813670	0.26238042	2.4164720	20	1 15.2	22.0
402023 2003 SP_{87}	17.0	X	184.97225	332.59856	56.74731	6.80818	0.2469720	0.26971639	2.3724541	20	4 16.3	21.1
402024 2003 SB_{88}	15.6	X	358.14549	100.94323	271.74497	14.48083	0.2667743	0.17886272	3.1197718	20	11 25.1	18.9
402025 2003 SA_{101}	17.4	X	304.23120	89.49121	337.77291	17.45312	0.1264681	0.35421895	1.9782819	20	12 21.3	19.2
402026 2003 SC_{113}	16.1	X	357.62153	110.11690	258.13663	9.53524	0.1883965	0.17940183	3.1135187	20	11 7.9	19.6
402027 2003 SG_{155}	17.4	X	199.13279	74.12668	245.77135	1.52859	0.2181405	0.26354399	2.4093541	20	1 31.9	21.6
402028 2003 SV_{157}	15.8	X	321.04014	83.06850	354.77988	14.47577	0.2668214	0.17873701	3.1212344	20	11 23.1	19.0
402029 2003 SY_{164}	17.4	X	157.52369	238.09995	172.15396	5.07920	0.1819743	0.26615072	2.3935966	20	4 16.6	21.1
402030 2003 SH_{173}	17.3	X	137.38856	300.65674	79.46991	3.37332	0.2165447	0.26059603	2.4274904	20	2 23.2	20.9
402031 2003 SQ_{175}	16.3	X	359.30661	338.61089	39.47550	1.94405	0.1691697	0.17922151	3.1156066	20	11 22.9	19.9
402032 2003 SD_{185}	16.1	X	303.47994	50.51467	353.23543	16.00369	0.2606992	0.17098242	3.2149070	20	9 3.2	19.7
402033 2003 SE_{187}	17.8	X	159.65469	301.11942	53.60854	3.14844	0.1933254	0.26152188	2.4217578	20	2 10.4	21.6
402034 2003 SP_{206}	17.4	X	156.18409	31.35096	355.18680	6.59824	0.1430366	0.26444616	2.4038712	20	3 12.5	20.7
402035 2003 SO_{209}	16.2	X	312.92832	41.92072	345.48108	12.49845	0.1704108	0.17189468	3.2035224	20	9 8.2	19.7
402036 2003 SB_{223}	16.6	X	341.53833	165.44890	199.97773	14.94933	0.2654241	0.17259533	3.1948467	20	10 3.5	19.5
402037 2003 SE_{224}	15.5	X	100.15919	275.01986	347.02446	13.16584	0.0912746	0.17782997	3.1318389	20	10 25.0	20.4
402038 2003 SQ_{229}	16.2	X	337.41333	316.15694	49.95106	5.58604	0.1645987	0.17131747	3.2107139	20	9 28.1	19.8
402039 2003 SS_{229}	17.4	X	192.13456	300.90614	58.64022	3.22643	0.1359056	0.26550691	2.3974644	20	3 14.8	21.0
402040 2003 SY_{245}	17.8	X	170.58813	315.72164	19.11091	2.32187	0.2266506	0.26141629	2.4224098	20	1 28.6	21.8
402041 2003 SV_{270}	17.9	X	136.74481	300.92943	90.54703	3.25851	0.2014897	0.26149361	2.4219323	20	3 6.2	21.4
402042 2003 SK_{272}	17.5	X	119.20443	67.06080	335.23339	6.30963	0.1777095	0.25992406	2.4316724	20	2 25.7	20.7
402043 2003 ST_{274}	17.9	X	157.36776	228.82006	144.10110	1.97060	0.2029168	0.26237658	2.4164956	20	3 1.3	21.8
402044 2003 SY_{277}	16.0	X	326.87512	57.25733	348.11999	12.58101	0.0921064	0.17631314	3.1497754	20	10 25.9	20.2
402045 2003 SP_{279}	17.9	X	154.12133	60.59208	330.83693	9.69639	0.2145325	0.26544637	2.3978289	20	3 18.6	21.8
402046 2003 SD_{281}	17.7	X	186.25562	147.03533	188.81790	2.08521	0.2067866	0.26313297	2.4118624	20	2 9.3	21.8
402047 2003 SR_{288}	16.7	X	315.81154	353.92313	49.91320	6.82607	0.2530680	0.17397909	3.1778838	20	9 30.7	19.9
402048 2003 SZ_{292}	16.1	X	349.24298	13.82846	350.35464	17.16551	0.2287768	0.17508784	3.1644535	20	10 13.1	19.5
402049 2003 SD_{301}	17.1	X	209.58092	38.30094	289.60183	5.83631	0.1267754	0.26640530	2.3920714	20	2 17.4	20.8
402050 2003 SZ_{311}	16.4	X	9.36614	26.78122	335.66646	17.90324	0.2065964	0.17978831	3.1090550	20	11 18.9	20.5
402051 2003 SW_{314}	16.9	X	302.99781	116.08780	280.92675	3.25186	0.1718187	0.17251854	3.1957947	20	9 2.2	20.8
402052 2003 SU_{323}	16.9	X	353.01439	27.08253	335.83960	6.47134	0.1612591	0.17664440	3.1458364	20	10 18.9	20.5
402053 2003 SY_{328}	18.3	X	105.88413	355.22357	58.43509	2.57531	0.1672032	0.25937348	2.4351124	20	2 24.0	21.3
402054 2003 SF_{330}	16.7	X	309.97837	73.78351	304.63365	0.71851	0.1683124	0.17053379	3.2205428	20	8 21.8	20.4
402055 2003 SN_{333}	15.9	X	25.35390	307.40652	0.29571	14.85584	0.0863907	0.17402280	3.1773517	20	9 23.6	20.0
402056 2003 SM_{338}	17.9	X	174.35511	326.15779	26.12899	5.61421	0.1318377	0.26341800	2.4101223	20	2 18.1	21.5
402057 2003 SX_{348}	17.9	X	211.42220	283.67983	11.43583	1.36952	0.1685771	0.26268393	2.4146103	20	1 12.6	21.6
402058 2003 ST_{372}	17.9	X	94.68034	61.01599	347.02887	3.64041	0.0842076	0.25864171	2.4397033	20	1 18.6	20.8
402059 2003 SJ_{395}	17.6	X	118.61751	291.70877	126.16653	6.56627	0.1481596	0.26113366	2.4241574	20	3 14.7	20.8
402060 2003 SF_{403}	17.8	X	20.69782	218.71375	190.06127	6.33139	0.1218735	0.24658487	2.5185956	20	—	—
402061 2003 SX_{427}	16.1	X	303.56439	34.61359	354.48113	9.22789	0.1528095	0.17193833	3.2029802	20	8 29.6	20.0
402062 2003 SE_{428}	16.0	X	322.67818	1.42439	358.64322	11.14945	0.1066671	0.17145115	3.2090448	20	8 28.3	20.1
402063 2003 SU_{430}	17.6	X	182.02419	326.57046	344.87521	6.22517	0.1806256	0.25784817	2.4447062	20	1 8.4	21.5
402064 2003 TW_{6}	17.3	X	199.02464	275.01220	54.01140	11.31082	0.3073743	0.26596554	2.3947075	20	2 18.1	21.9
402065 2003 TE_{10}	15.7	X	315.12080	90.30507	311.94469	24.44901	0.2746924	0.17225227	3.1990872	20	9 6.8	19.5
402066 2003 TY_{12}	15.8	X	26.22291	349.65818	1.84762	12.08787	0.3197903	0.17865795	3.1221552	20	12 23.4	20.1
402067 2003 TF_{26}	17.8	X	148.28734	4.28452	349.65075	6.40760	0.1671881	0.25898148	2.4375690	20	1 27.7	21.4
402068 2003 TB_{38}	17.1	X	86.51971	131.40336	279.76440	5.37962	0.1114218	0.25548932	2.4597306	20	1 14.0	19.7
402069 2003 TV_{44}	16.7	X	305.94376	80.53134	316.82248	6.80304	0.0956714	0.17105588	3.2139865	20	9 15.3	20.9
402070 2003 UB_{25}	17.5	X	205.51828	61.06704	268.87945	4.13550	0.2250662	0.26499266	2.4005651	20	2 16.7	21.6
402071 2003 UD_{29}	17.7	X	126.45238	24.70344	31.04182	1.55924	0.1694013	0.26047312	2.4282539	20	3 21.7	21.2
402072 2003 UW_{32}	17.8	X	146.35656	344.30591	39.31701	2.87264	0.1947035	0.26125918	2.4233809	20	3 4.8	21.4
402073 2003 UE_{107}	15.1	X	354.34121	24.00027	332.75357	27.59772	0.1934044	0.17617383	3.1514357	20	10 1.2	19.1
402074 2003 UE_{113}	16.7	X	209.66257	179.89858	152.40072	7.68259	0.2696868	0.26620019	2.3933000	20	2 24.2	20.8
402075 2003 UG_{128}	16.3	X	344.87787	31.10110	333.02193	5.87074	0.2436382	0.17193226	3.2030556	20	10 7.4	19.5
402076 2003 UF_{193}	18.1	X	155.55106	73.58599	325.77242	1.90089	0.1898702	0.26574629	2.3960245	20	3 30.4	21.9
402077 2003 US_{199}	17.3	X	136.52679	336.60992	58.51971	2.19142	0.1895800	0.26093486	2.4253885	20	3 8.9	20.9
402078 2003 UM_{202}	17.6	X	118.23213	317.22773	81.02524	3.14027	0.1899177	0.25757777	2.4464169	20	2 22.7	20.8
402079 2003 UX_{208}	18.2	X	134.50989	65.49310	341.51908	1.97691	0.2170769	0.26154522	2.4216136	20	3 23.1	21.7
402080 2003 UP_{209}	17.5	X	101.49071	306.46981	112.58118	2.47515	0.1754917	0.25822712	2.4423139	20	2 26.4	20.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
402081 2003 UB_{214}	16.3	X	319.90315	4.56053	18.29734	4.88183	0.1532881	0.17041337	3.2220599	20	9 17.3	20.1
402082 2003 UK_{214}	18.1	X	138.15276	94.81197	295.85794	0.69185	0.1856496	0.26041982	2.4285853	20	3 3.2	21.5
402083 2003 UH_{215}	17.8	X	180.63966	267.56536	61.43349	3.64499	0.1839541	0.25996082	2.4314431	20	1 28.2	21.7
402084 2003 UC_{225}	17.8	X	115.75971	111.85463	279.70011	2.51585	0.1762183	0.25638206	2.4540174	20	2 7.2	21.0
402085 2003 UN_{226}	17.3	X	129.66617	164.93437	251.52914	4.37198	0.1687629	0.26107209	2.4245385	20	3 23.4	20.8
402086 2003 UO_{233}	17.4	X	152.30089	35.32564	310.47603	3.16858	0.1482365	0.25584512	2.4574496	20	1 18.7	21.0
402087 2003 UN_{241}	17.6	X	83.87803	253.36704	171.82984	1.53373	0.1647719	0.25537709	2.4604512	20	2 6.3	20.2
402088 2003 UN_{255}	17.4	X	168.77141	314.61002	82.35701	4.60939	0.1836607	0.26591624	2.3950034	20	4 11.1	21.2
402089 2003 UP_{255}	17.3	X	131.19337	324.73705	78.47735	4.57997	0.1743107	0.26021707	2.4298466	20	3 13.4	20.8
402090 2003 UU_{255}	17.6	X	143.00175	307.00149	94.71252	3.65210	0.2136639	0.26184115	2.4197888	20	3 26.5	21.3
402091 2003 UC_{267}	15.9	X	7.06817	186.09187	217.47516	9.12033	0.1447827	0.17985593	3.1082757	20	—	—
402092 2003 UG_{268}	17.4	X	146.52223	318.81470	50.28759	3.16604	0.2070691	0.25883417	2.4384937	20	2 17.4	21.1
402093 2003 UF_{280}	17.2	X	167.84356	201.49850	162.11297	5.13584	0.2159268	0.26084235	2.4259619	20	2 28.6	21.2
402094 2003 UQ_{297}	18.1	X	123.63040	38.66142	343.28083	2.54401	0.1684477	0.25694838	2.4504102	20	2 4.3	21.3
402095 2003 UC_{308}	17.6	X	231.25123	307.18452	42.41606	1.67029	0.2197672	0.26971778	2.3724460	20	4 3.3	21.3
402096 2003 US_{315}	17.6	X	104.20858	308.99577	96.21573	5.06203	0.1844884	0.25688730	2.4507986	20	2 13.8	20.6
402097 2003 UP_{317}	17.3	X	327.11821	1.54352	1.38484	6.10243	0.1508618	0.17145328	3.2090182	20	9 3.9	21.0
402098 2003 WK_{3}	17.2	X	124.04664	303.73974	85.50557	3.49615	0.2006272	0.25623448	2.4549595	20	2 19.3	20.7
402099 2003 WN_{13}	17.9	X	140.75604	80.69770	294.45221	1.15782	0.2056674	0.25812845	2.4429362	20	2 17.6	21.6
402100 2003 WW_{38}	16.3	X	88.94087	32.80181	353.76626	8.22913	0.1876185	0.24661544	2.5183874	20	—	—
402101 2003 WD_{65}	17.6	X	177.62636	286.24831	79.51092	2.34432	0.2177506	0.26213858	2.4179580	20	3 11.6	21.7
402102 2003 WX_{106}	17.2	X	118.09345	119.17940	318.62742	6.16561	0.0671005	0.26360258	2.4089971	20	3 23.7	20.3
402103 2003 WM_{109}	18.1	X	133.80831	138.09775	267.00226	5.74016	0.3189095	0.26019223	2.4300013	20	3 26.7	22.3
402104 2003 WT_{158}	17.5	X	158.54679	313.61337	84.11164	3.63788	0.2188653	0.26307384	2.4122238	20	4 4.6	21.4
402105 2003 XP_{12}	16.8	X	132.97369	62.78749	327.22567	11.63002	0.2138890	0.25486023	2.4637767	20	2 28.2	20.5
402106 2003 XQ_{24}	17.1	X	123.96794	59.07718	322.33381	5.80542	0.1151201	0.25419969	2.4680429	20	1 28.1	20.3
402107 2003 YB_{47}	17.6	X	118.73826	321.83238	93.31591	3.45361	0.1862793	0.25680163	2.4513436	20	3 16.2	21.0
402108 2003 YZ_{89}	16.6	X	279.19085	212.41173	302.82005	12.44646	0.1091256	0.23235336	2.6204150	20	—	—
402109 2004 AS_{9}	17.7	X	341.74844	170.85434	310.14770	4.11249	0.2329033	0.23788387	2.5796417	20	—	—
402110 2004 BE_{20}	16.6	X	53.86740	28.57816	57.88116	7.13560	0.2368039	0.24490750	2.5300823	20	1 26.1	18.7
402111 2004 BZ_{65}	17.2	X	38.83828	278.86645	152.47306	2.74997	0.1345708	0.24137464	2.5547101	20	—	—
402112 2004 BO_{102}	16.4	X	24.13006	115.61259	325.56784	21.75673	0.0726967	0.23728431	2.5839853	20	—	—
402113 2004 BY_{105}	16.9	X	357.16501	99.23439	31.59265	4.41483	0.1100355	0.24106911	2.5568682	20	—	—
402114 2004 BA_{112}	16.9	X	320.58131	208.82773	308.29538	4.02589	0.1144300	0.23758965	2.5817709	20	—	—
402115 2004 BK_{162}	16.3	X	57.77596	50.08417	322.80042	21.50723	0.0355457	0.23198745	2.6231697	20	—	—
402116 2004 CT_{2}	16.5	X	259.06431	214.79712	306.11299	12.30406	0.1064077	0.22644962	2.6657637	20	12 30.3	19.8
402117 2004 CN_{12}	17.0	X	17.85153	327.95262	137.38825	12.79116	0.1145067	0.24053397	2.5606591	20	—	—
402118 2004 CB_{18}	16.9	X	311.11075	34.52968	118.02566	4.27253	0.1070688	0.23506485	2.6002250	20	—	—
402119 2004 CM_{39}	16.6	X	321.82540	19.24504	125.16930	17.82359	0.1381858	0.23446146	2.6046842	20	—	—
402120 2004 CJ_{55}	16.9	X	199.21677	314.64220	327.14140	3.89951	0.0736099	0.23515453	2.5995638	20	—	—
402121 2004 CP_{118}	17.7	X	337.35034	49.64250	64.89745	2.34874	0.0899088	0.23487626	2.6016166	20	—	—
402122 2004 DR_{28}	17.2	X	348.00345	347.62876	116.60617	4.04321	0.1269922	0.23360564	2.6110419	20	—	—
402123 2004 EK_{3}	16.6	X	53.05834	52.46119	28.22458	17.88801	0.2150700	0.24160526	2.5530841	20	1 16.4	19.3
402124 2004 ER_{36}	16.7	X	223.04582	174.43553	353.83350	8.21232	0.2370971	0.21887574	2.7269110	20	10 31.9	21.0
402125 2004 ER_{52}	16.3	X	355.79749	294.49480	163.54477	14.02230	0.0239106	0.22940043	2.6428544	20	—	—
402126 2004 EW_{92}	16.4	X	153.84223	100.01988	146.78715	12.90586	0.1961877	0.21509874	2.7587402	20	12 10.9	21.3
402127 2004 FK_{119}	17.6	X	300.26903	121.79756	10.92273	4.04695	0.0887871	0.22713623	2.6603888	20	—	—
402128 2004 GE_{30}	16.7	X	172.04747	169.05111	29.39196	8.47586	0.1472736	0.21223296	2.7835188	20	10 29.5	21.0
402129 2004 GS_{76}	16.6	X	158.56741	107.93202	117.25106	9.27036	0.2329912	0.21291781	2.7775468	20	11 19.4	21.5
402130 2004 HS_{42}	16.1	X	145.12119	17.40318	232.28695	7.88078	0.2169991	0.21218116	2.7839719	20	12 5.2	21.0
402131 2004 LB_{30}	18.2	X	322.10011	158.17349	126.48529	7.81609	0.1404511	0.30211402	2.1996595	20	5 10.7	20.4
402132 2004 OR_{1}	16.2	X	42.36148	212.85459	145.54382	12.65344	0.2390815	0.19942064	2.9015005	20	—	—
402133 2004 PN_{26}	17.2	X	41.90149	225.28240	135.79293	7.50051	0.2770244	0.19770789	2.9182336	20	—	—
402134 2004 PD_{29}	16.2	X	291.46297	157.87357	205.88250	7.72801	0.2277648	0.17870030	3.1216619	20	6 24.8	20.4
402135 2004 PY_{29}	16.5	X	99.35676	313.93319	332.91570	14.76090	0.2519024	0.19895754	2.9060011	20	12 11.7	21.7
402136 2004 PE_{60}	17.9	X	14.26799	88.67295	319.09126	18.81007	0.1459810	0.38797515	1.8618018	20	—	—
402137 2004 PP_{93}	17.8	X	217.75221	252.10872	148.61223	8.48685	0.2448003	0.29441298	2.2378523	20	5 26.6	21.6
402138 2004 PC_{97}	17.2	X	63.62821	338.59671	7.27236	23.04533	0.5297203	0.19643735	2.9308033	20	—	—
402139 2004 QN_{3}	17.6	X	291.89792	186.27676	179.28727	8.01305	0.3162603	0.30302864	2.1952312	20	6 17.4	20.0
402140 2004 QX_{3}	16.2	X	60.95099	333.64301	338.48998	17.80864	0.1312932	0.19681852	2.9270181	20	11 19.1	20.8
402141 2004 RU_{2}	17.7	X	235.21411	35.87120	342.07367	5.76744	0.1283327	0.29581039	2.2307990	20	5 18.4	20.9
402142 2004 RT_{14}	18.3	X	228.73456	22.12450	341.50280	1.44640	0.2466936	0.29282312	2.2459451	20	4 15.5	21.9
402143 2004 RM_{26}	18.2	X	274.90346	264.81472	51.34435	1.43802	0.2142369	0.29582892	2.2307058	20	4 1.3	21.0
402144 2004 RR_{28}	18.1	X	229.78386	12.49115	350.28962	5.19711	0.2093525	0.29303725	2.2448509	20	4 16.2	21.7
402145 2004 RM_{41}	16.6	X	23.14595	343.95871	357.47782	8.87715	0.1390424	0.19142574	2.9817358	20	11 9.8	20.5
402146 2004 RQ_{49}	17.4	X	216.42723	358.84368	356.16477	6.76105	0.1160269	0.28930390	2.2641222	20	3 29.4	20.7
402147 2004 RV_{67}	16.2	X	292.43475	79.57595	342.43178	11.77881	0.1122208	0.18741092	3.0241694	20	9 27.1	20.2
402148 2004 RH_{74}	15.4	X	253.87384	72.46871	356.06489	15.04256	0.0730346	0.18061984	3.0995055	20	8 26.2	19.9
402149 2004 RM_{113}	18.1	X	285.57690	154.19802	179.30613	2.71651	0.1667087	0.30023381	2.2088335	20	5 16.9	20.6
402150 2004 RR_{139}	18.2	X	250.80451	203.31341	172.79993	2.13325	0.1467166	0.29796167	2.2200484	20	6 3.8	21.0
402151 2004 RX_{146}	17.9	X	165.96636	69.86520	329.10264	4.62870	0.1533464	0.28605464	2.2812352	20	4 4.4	21.3
402152 2004 RQ_{156}	17.8	X	232.43537	53.79987	323.78824	5.40668	0.1813299	0.29436417	2.2380996	20	5 9.9	21.3
402153 2004 RS_{162}	16.3	X	98.01546	101.60033	244.39040	13.57221	0.1640630	0.20343556	2.8631985	20	—	—
402154 2004 RF_{184}	15.7	X	355.28246	196.69310	209.14003	11.45522	0.0502474	0.19699492	2.9252705	20	12 15.3	19.7
402155 2004 RR_{192}	15.7	X	35.51660	13.69020	342.26967	14.80544	0.1932043	0.19202596	2.9755192	20	12 26.8	20.1
402156 2004 RE_{196}	16.6	X	10.08410	24.92421	336.64554	11.45851	0.2675911	0.18912975	3.0058189	20	12 5.4	20.3
402157 2004 RN_{198}	16.2	X	60.60288	53.93156	339.36542	14.36123	0.1563821	0.20247135	2.8722815	20	—	—
402158 2004 RW_{203}	17.5	X	266.52295	109.38447	221.91186	6.46759	0.1738129	0.29503753	2.2346931	20	4 16.2	20.5
402159 2004 RM_{216}	17.1	X	144.18900	101.78223	342.07356	21.03305	0.3364133	0.28375776	2.2935289	20	5 17.3	21.7
402160 2004 RB_{228}	16.1	X	287.78802	48.95827	5.24551	9.71408	0.0751274	0.18148874	3.0896047	20	9 18.5	20.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
402161 2004 RK_{228}	16.5	X	31.58040	299.13609	1.48536	6.49166	0.1101192	0.18247500	3.0784620	20	9 27.8	20.6
402162 2004 RE_{229}	18.0	X	280.15551	306.85210	338.40988	3.00445	0.2274316	0.28899571	2.2657315	20	2 24.8	21.2
402163 2004 RB_{241}	17.0	X	10.92297	182.26291	181.49643	1.85352	0.0721389	0.19166670	2.9792362	20	11 15.6	20.9
402164 2004 RK_{257}	16.3	X	33.12720	328.31456	10.36853	6.83157	0.1411330	0.19225989	2.9731050	20	11 22.0	20.3
402165 2004 RY_{265}	16.8	X	8.24593	229.47293	122.81616	2.60445	0.1965532	0.18923697	3.0046834	20	11 12.1	20.2
402166 2004 RK_{268}	18.1	X	179.30308	354.76288	341.03236	3.79660	0.1340670	0.28016759	2.3130807	20	1 29.9	21.5
402167 2004 RX_{304}	18.0	X	240.33441	311.44217	48.75590	4.19864	0.2454071	0.29321577	2.2439396	20	4 22.2	21.4
402168 2004 RB_{323}	16.1	X	3.69411	26.75799	336.97189	12.86299	0.1196757	0.18795165	3.0183664	20	11 3.0	20.1
402169 2004 RW_{329}	16.9	X	303.80827	122.64742	288.17655	8.01678	0.1572624	0.18615302	3.0377777	20	9 23.3	20.7
402170 2004 RJ_{336}	18.3	X	169.46968	157.49995	243.12287	3.16901	0.1170908	0.28438493	2.2901556	20	4 9.3	21.7
402171 2004 RX_{342}	16.2	X	10.97497	65.47649	319.35379	8.66054	0.0760193	0.19510223	2.9441588	20	12 12.6	20.2
402172 2004 SP_{36}	18.4	X	250.71654	357.61447	326.23846	7.25114	0.1705724	0.29151680	2.2526497	20	3 18.8	21.8
402173 2004 SU_{44}	17.6	X	218.79522	28.47065	329.97662	7.01351	0.1406699	0.28890385	2.2662118	20	4 2.4	21.0
402174 2004 SX_{50}	17.0	X	14.97907	176.83354	200.37455	6.04686	0.2802650	0.19121387	2.9839379	20	—	—
402175 2004 TG_{4}	17.5	X	30.72321	289.64623	37.75974	2.25778	0.2138242	0.18802548	3.0175762	20	11 15.9	21.4
402176 2004 TY_{31}	16.3	X	73.22001	304.17673	2.49795	8.99913	0.1129731	0.19039970	2.9924384	20	11 26.0	20.9
402177 2004 TQ_{33}	15.6	X	162.61449	168.28875	13.59532	9.52257	0.1254440	0.18145523	3.0899851	20	9 29.1	20.4
402178 2004 TS_{40}	17.7	X	277.68197	269.91714	14.80528	4.15796	0.1989165	0.28844045	2.2686384	20	2 26.2	20.9
402179 2004 TV_{50}	17.6	X	225.87964	309.34811	7.87182	3.83029	0.1624094	0.28114894	2.3076950	20	2 20.6	21.3
402180 2004 TV_{67}	16.6	X	311.36729	271.55147	152.39475	9.78099	0.3930467	0.18487845	3.0517235	20	9 30.1	19.0
402181 2004 TF_{73}	15.8	X	327.36908	324.86726	26.48896	10.79725	0.0841202	0.17747244	3.1360437	20	8 28.7	19.9
402182 2004 TP_{73}	18.4	X	253.27155	288.56828	25.16758	4.22127	0.1691465	0.28680999	2.2772281	20	3 12.7	21.6
402183 2004 TF_{87}	17.0	X	88.75448	94.98880	19.35172	7.13820	0.0469219	0.28411725	2.2915938	20	4 1.4	19.4
402184 2004 TZ_{97}	16.0	X	358.43664	307.24096	30.36671	7.31842	0.1342158	0.18203857	3.0833803	20	9 28.9	19.5
402185 2004 TC_{98}	17.7	X	207.84767	167.68407	192.65227	6.31293	0.1723598	0.28576153	2.2827948	20	3 27.3	21.2
402186 2004 TN_{101}	16.0	X	50.10530	87.03651	224.32408	9.74410	0.1192846	0.18548147	3.0451056	20	11 7.1	20.0
402187 2004 TN_{105}	17.4	X	334.42844	50.60762	0.82587	1.99735	0.0813463	0.19006570	2.9959430	20	11 22.3	21.1
402188 2004 TQ_{111}	16.6	X	330.33621	11.77135	42.18448	1.92119	0.1196657	0.18805660	3.0172432	20	11 19.6	20.0
402189 2004 TN_{139}	15.8	X	308.78463	69.46576	321.36624	8.29112	0.0815351	0.18209882	3.0827002	20	9 14.0	19.8
402190 2004 TA_{149}	17.1	X	305.12730	85.20995	351.43008	3.39190	0.1803950	0.18715002	3.0269794	20	10 31.5	20.4
402191 2004 TR_{161}	17.7	X	105.02739	75.12134	28.14804	7.24113	0.1715456	0.27963095	2.3160391	20	4 27.3	20.7
402192 2004 TQ_{162}	17.4	X	181.02831	335.24168	34.63827	11.16041	0.1452809	0.28105465	2.3082111	20	3 19.2	21.0
402193 2004 TR_{185}	16.1	X	271.65955	65.79765	4.34344	5.87991	0.1262320	0.18096874	3.0955204	20	9 9.3	20.2
402194 2004 TU_{203}	15.8	X	258.86151	48.09562	41.92262	16.75184	0.2043875	0.17738108	3.1371204	20	9 14.3	20.6
402195 2004 TE_{212}	16.1	X	265.06019	29.98474	32.03227	6.62653	0.1270003	0.17681054	3.1438654	20	8 22.6	20.5
402196 2004 TX_{218}	16.2	X	328.87112	22.32705	7.72730	9.91666	0.1531749	0.18416978	3.0595471	20	10 13.6	19.6
402197 2004 TJ_{228}	16.2	X	216.60855	127.60152	4.93139	5.40515	0.0440681	0.18259177	3.0771494	20	9 30.1	20.5
402198 2004 TK_{277}	17.8	X	159.38190	6.43670	44.34163	7.89383	0.1045430	0.28204365	2.3028121	20	4 14.0	20.9
402199 2004 TR_{285}	15.6	X	314.74354	83.53545	302.05878	8.75093	0.1272851	0.18013847	3.1050247	20	9 10.6	19.5
402200 2004 TE_{287}	17.0	X	299.65361	45.86277	11.43613	1.46551	0.2676310	0.18221908	3.0813437	20	9 12.9	20.3
402201 2004 TX_{367}	16.8	X	227.10341	65.16178	22.13916	5.20426	0.1655366	0.17226452	3.1989356	20	8 5.1	21.8
402202 2004 VC_{14}	17.5	X	148.81514	11.76613	46.38015	7.06356	0.2046671	0.28025617	2.3125933	20	4 19.4	21.1
402203 2004 VW_{20}	17.6	X	150.58973	13.46228	38.16843	4.95398	0.1734725	0.28115439	2.3076652	20	4 10.1	21.1
402204 2004 VZ_{74}	16.8	X	312.24339	317.70971	93.48072	2.35001	0.2740847	0.18291661	3.0735052	20	10 1.1	19.6
402205 2004 VU_{88}	16.7	X	48.40315	12.10059	329.06960	3.29164	0.1610073	0.18890504	3.0082022	20	12 17.5	20.9
402206 2004 VE_{112}	17.7	X	135.88856	347.32948	79.47031	6.09674	0.2177554	0.27937142	2.3174732	20	4 20.8	21.3
402207 2004 WO_{1}	16.7	X	334.66435	22.56155	26.58827	1.77860	0.2231359	0.18550445	3.0448542	20	11 22.8	19.6
402208 2004 XN_{9}	17.3	X	176.81219	327.32716	58.84802	6.51352	0.1752761	0.28052831	2.3110974	20	4 4.3	20.9
402209 2004 XL_{42}	16.6	X	340.89412	324.18389	60.79627	4.47936	0.3188619	0.18274983	3.0753749	20	11 8.7	18.7
402210 2004 XJ_{118}	16.3	X	283.62591	146.60430	277.40892	9.24066	0.2016907	0.17508809	3.1644506	20	8 30.9	20.6
402211 2004 XJ_{119}	15.5	X	314.05830	308.94862	101.23802	16.68471	0.0970933	0.17560301	3.1582614	20	10 25.9	19.8
402212 2004 XE_{124}	15.5	X	318.20637	73.87539	336.02586	15.01574	0.2793964	0.18116382	3.0932978	20	10 3.6	18.6
402213 2004 XG_{146}	17.4	X	50.72658	14.53457	96.88022	6.32073	0.1847275	0.26521386	2.3992301	20	2 15.5	19.3
402214 2004 XV_{165}	16.4	X	269.14264	151.52766	280.60454	9.20906	0.1949486	0.17585378	3.1552583	20	8 23.5	20.9
402215 2004 YW_{13}	17.3	X	22.37788	11.32938	107.58074	5.37739	0.0299465	0.26124951	2.4234406	20	1 2.4	19.9
402216 2005 AQ_{30}	17.9	X	203.39723	175.85213	337.76146	18.59490	0.0708450	0.36047454	1.9553281	20	10 30.1	20.5
402217 2005 AY_{30}	15.5	X	247.20306	3.03189	105.77159	20.04141	0.0800701	0.17261040	3.1946607	20	10 11.2	20.5
402218 2005 AE_{37}	17.5	X	142.78503	294.27686	143.65540	5.21072	0.1992112	0.27683175	2.3316254	20	5 9.8	21.2
402219 2005 AM_{46}	17.9	X	172.69579	196.72028	221.18291	1.43076	0.2635362	0.28067068	2.3103158	20	5 10.6	22.0
402220 2005 AV_{54}	15.7	X	334.88264	99.59698	316.88351	25.19078	0.2158077	0.18200871	3.0837177	20	11 29.2	19.4
402221 2005 CF_{39}	16.4	X	332.23617	354.77868	19.66659	5.22758	0.1344746	0.16921196	3.2372930	20	9 28.2	20.1
402222 2005 CZ_{64}	17.8	X	137.03079	313.80732	108.74423	3.85430	0.1783487	0.27120101	2.3637880	20	4 12.7	21.2
402223 2005 EH_{108}	15.5	X	317.29837	154.37244	329.79302	27.18571	0.1040833	0.18048234	3.1010796	20	—	—
402224 2005 EM_{145}	17.5	X	239.17408	189.40771	14.99719	4.69987	0.1286598	0.24093853	2.5577919	20	—	—
402225 2005 EH_{151}	17.7	X	232.29865	160.02104	46.82644	5.34523	0.1204630	0.23871713	2.5736353	20	—	—
402226 2005 EV_{152}	17.0	X	101.79816	89.73839	163.47860	7.09450	0.1887590	0.22152593	2.7051188	20	11 6.8	21.5
402227 2005 EJ_{206}	17.0	X	344.29569	199.36914	333.18019	5.07333	0.0626443	0.25413561	2.4684578	20	1 18.9	20.0
402228 2005 EK_{207}	16.9	X	2.88868	38.92633	143.13304	6.40142	0.0423556	0.26150782	2.4218446	20	2 29.1	19.7
402229 2005 EH_{245}	17.5	X	216.75964	206.00791	3.94966	4.62086	0.2306887	0.23915346	2.5705039	20	12 22.6	21.3
402230 2005 GX_{1}	17.4	X	208.28435	192.82824	28.39819	8.14880	0.0882387	0.23669883	2.5882445	20	—	—
402231 2005 GB_{45}	17.0	X	116.82644	106.57856	192.43835	12.33673	0.1829043	0.23258839	2.6186494	20	—	—
402232 2005 GN_{50}	16.8	X	212.48518	185.93169	44.25655	5.02581	0.1999286	0.23616550	2.5921397	20	—	—
402233 2005 GG_{52}	17.2	X	192.34004	115.76456	131.05031	0.87622	0.1269173	0.23473282	2.6026764	20	—	—
402234 2005 GA_{67}	16.9	X	86.04990	191.46920	199.78869	4.48330	0.0795298	0.24514779	2.5284288	20	—	—
402235 2005 GE_{87}	17.3	X	110.65834	59.13215	201.64435	11.20900	0.1707288	0.22239861	2.6980377	20	11 21.7	21.7
402236 2005 GK_{100}	17.0	X	179.20885	288.69824	349.91842	11.58763	0.2670014	0.24064912	2.5598422	20	—	—
402237 2005 GR_{146}	17.2	X	234.57570	227.86376	10.88889	3.51863	0.1020592	0.24259837	2.5461117	20	—	—
402238 2005 GG_{159}	16.9	X	267.12139	45.06048	117.25491	13.63743	0.2297445	0.23857032	2.5746909	20	12 30.3	19.5
402239 2005 GK_{221}	16.9	X	192.60530	131.53196	92.70881	12.15182	0.2368960	0.23229647	2.6208429	20	12 15.3	21.2
402240 2005 JW_{87}	17.2	X	214.50057	189.95083	47.08829	4.93103	0.1844851	0.23972018	2.5664511	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
402241 2005 JH_{111}	16.7	X	150.62321	191.73698	94.98987	12.41022	0.2074573	0.23075336	2.6325140	20	—	—
402242 2005 JV_{125}	17.5	X	213.57443	53.90386	150.67146	13.61274	0.2007094	0.23080591	2.6321144	20	12 15.9	21.7
402243 2005 JF_{135}	17.5	X	168.05616	89.70580	170.87590	7.41647	0.3267335	0.22927774	2.6437971	20	—	—
402244 2005 JJ_{137}	17.2	X	18.25818	348.55194	151.03021	3.39055	0.1387498	0.25193335	2.4828221	20	1 20.3	19.7
402245 2005 JO_{137}	17.6	X	144.56617	94.22948	214.94536	11.97578	0.2824457	0.23125478	2.6287073	20	—	—
402246 2005 KN_{7}	17.0	X	229.14200	51.96464	137.75294	14.48402	0.2065367	0.23197339	2.6232757	20	12 14.6	20.9
402247 2005 KH_{11}	16.1	X	290.03948	53.52980	118.78114	25.24699	0.1413781	0.23945347	2.5683564	20	—	—
402248 2005 LZ_{31}	17.0	X	182.02392	157.01957	110.06356	9.45055	0.1149329	0.23266007	2.6181116	20	—	—
402249 2005 LF_{39}	16.4	X	77.40703	201.28076	102.82997	14.88822	0.1846218	0.21841031	2.7307836	20	12 13.4	20.7
402250 2005 MK	16.3	X	130.25333	43.85255	260.49641	11.40796	0.1598836	0.22763977	2.6564641	20	—	—
402251 2005 MP_{27}	17.1	X	178.54904	198.31138	130.26534	5.77291	0.1517609	0.23571115	2.5954697	20	1 25.8	21.1
402252 2005 MX_{27}	17.3	X	121.96764	127.08408	157.81676	9.31430	0.1945912	0.21896605	2.7261611	20	12 28.3	22.0
402253 2005 ME_{48}	16.8	X	106.30479	334.70522	276.13593	11.54640	0.2405757	0.21246423	2.7814985	20	11 4.9	21.7
402254 2005 NH_{6}	16.7	X	66.25906	96.53356	278.35091	9.15482	0.1261030	0.22275335	2.6951724	20	—	—
402255 2005 NY_{11}	16.6	X	127.74328	7.73675	295.63338	8.32390	0.2671489	0.22257258	2.6966315	20	—	—
402256 2005 NR_{18}	17.5	X	112.85877	179.41644	137.07676	5.41737	0.0981253	0.22168994	2.7037844	20	—	—
402257 2005 OF_{18}	17.0	X	82.62484	62.91564	262.06786	2.67644	0.0948951	0.21342183	2.7731721	20	—	—
402258 2005 PU_{10}	16.8	X	41.81496	344.68311	36.11576	4.96207	0.2200380	0.21418181	2.7666082	20	—	—
402259 2005 QE_{45}	16.6	X	190.93780	297.38764	358.14187	10.19600	0.1907897	0.22962382	2.6411400	20	1 1.2	21.2
402260 2005 QU_{73}	16.3	X	102.54020	0.43278	343.75530	9.63048	0.2354785	0.21800292	2.7341847	20	—	—
402261 2005 QV_{81}	17.6	X	49.76283	354.03305	1.59406	4.08240	0.2071506	0.21156460	2.7893781	20	—	—
402262 2005 QZ_{122}	18.2	X	293.60996	325.30537	316.07004	0.86499	0.1508917	0.31317179	2.1475715	20	3 13.6	20.5
402263 2005 QO_{131}	17.3	X	35.71884	253.09089	135.05615	6.50110	0.0578560	0.21406235	2.7676374	20	—	—
402264 2005 QU_{135}	17.8	X	72.83031	354.50358	7.63619	4.86096	0.1674517	0.21510556	2.7586819	20	—	—
402265 2005 QD_{157}	15.9	X	125.17908	16.42666	345.74641	15.97124	0.1977789	0.22350765	2.6891052	20	1 25.1	20.0
402266 2005 QM_{164}	16.8	X	56.87288	249.72107	163.02971	13.78361	0.1481577	0.21953187	2.7214749	20	—	—
402267 2005 QE_{166}	17.0	X	63.25469	234.41396	188.83225	12.95374	0.5288206	0.21613972	2.7498753	20	3 10.5	20.0
402268 2005 QE_{169}	16.5	X	64.77439	28.70188	315.86270	20.69710	0.2129853	0.21097010	2.7946158	20	—	—
402269 2005 QP_{172}	16.9	X	129.81545	51.70865	331.22404	6.58615	0.2931478	0.22772250	2.6558207	20	2 27.9	21.2
402270 2005 QB_{188}	16.5	X	90.19028	136.73676	193.57350	7.50213	0.0793623	0.21379223	2.7699681	20	—	—
402271 2005 QD_{190}	17.2	X	57.64588	159.41612	205.17566	3.70544	0.1087495	0.21483691	2.7609812	20	—	—
402272 2005 RS_{19}	17.2	X	109.28876	303.66173	25.77053	3.89745	0.0877203	0.21712793	2.7415252	20	—	—
402273 2005 RF_{27}	16.4	X	98.61575	14.01038	316.29974	13.18766	0.1982951	0.21501218	2.7594806	20	—	—
402274 2005 SC_{13}	17.3	X	42.54163	188.45359	200.55470	3.92045	0.0751060	0.21256185	2.7806469	20	—	—
402275 2005 SR_{20}	16.2	X	97.83046	190.89498	143.98924	13.58950	0.1762966	0.21681326	2.7441773	20	—	—
402276 2005 SR_{27}	17.2	X	72.56043	58.28034	297.05404	3.81578	0.1719957	0.21265921	2.7797981	20	—	—
402277 2005 SU_{53}	17.1	X	117.51016	17.09183	304.12786	3.53051	0.1233644	0.21525125	2.7574370	20	—	—
402278 2005 SS_{91}	17.3	X	55.43554	313.72067	17.44497	1.93248	0.0662014	0.20374610	2.8602885	20	12 3.9	21.3
402279 2005 SP_{96}	16.7	X	10.19700	27.29510	27.91333	9.41084	0.1542541	0.20967041	2.8061526	20	—	—
402280 2005 SU_{98}	17.5	X	81.57069	101.91837	226.68710	8.05380	0.1856661	0.21023208	2.8011523	20	—	—
402281 2005 SC_{118}	16.6	X	33.03987	231.01594	154.97602	9.78833	0.1621006	0.21035306	2.8000782	20	—	—
402282 2005 SU_{121}	16.4	X	119.47819	30.51607	337.51382	10.75752	0.1524740	0.22555053	2.6728432	20	1 17.2	20.2
402283 2005 SR_{141}	17.1	X	79.95290	212.16715	159.52578	4.41912	0.1627825	0.21635834	2.7480225	20	—	—
402284 2005 SL_{162}	15.8	X	40.25781	201.28676	11.00473	9.91472	0.0458492	0.17871548	3.1214851	20	6 6.6	20.2
402285 2005 SE_{164}	16.3	X	120.61253	345.41676	38.26035	15.05142	0.2612816	0.22475175	2.6791724	20	2 25.7	20.7
402286 2005 SR_{174}	16.6	X	109.06208	318.39468	297.46153	4.67139	0.0902097	0.20205626	2.8762138	20	11 3.4	21.0
402287 2005 ST_{175}	16.3	X	329.01471	136.51393	218.16528	9.90926	0.0691593	0.19238902	2.9717746	20	8 29.1	20.2
402288 2005 SP_{180}	16.9	X	93.57338	178.87126	177.92487	9.86079	0.1349645	0.21825322	2.7320938	20	—	—
402289 2005 SZ_{192}	16.4	X	104.28008	323.35374	10.44742	6.67270	0.2871188	0.21549236	2.7553798	20	—	—
402290 2005 SC_{197}	19.3	X	355.86570	142.01545	153.32392	1.54563	0.2497022	0.32654183	2.0885434	20	9 1.2	19.7
402291 2005 SH_{200}	17.1	X	118.47602	259.79401	27.11394	4.53973	0.1921256	0.21141772	2.7906698	20	12 26.7	21.9
402292 2005 SS_{200}	16.7	X	285.56735	79.51546	26.41918	9.60184	0.0881323	0.20318484	2.8655534	20	11 20.3	20.3
402293 2005 SB_{207}	16.7	X	284.98533	168.49088	215.46064	8.16768	0.2232254	0.18792457	3.0186564	20	7 12.2	20.8
402294 2005 SR_{212}	16.8	X	23.48420	54.47260	18.11079	4.06927	0.0858348	0.21372977	2.7705077	20	—	—
402295 2005 SW_{221}	16.8	X	109.88622	204.00899	140.88659	12.92162	0.1990165	0.21971528	2.7199602	20	—	—
402296 2005 SB_{241}	16.6	X	138.53283	134.75486	214.72315	12.15021	0.0908837	0.22271990	2.6954423	20	1 4.5	20.6
402297 2005 SH_{242}	16.9	X	137.41218	287.56949	341.81776	7.03306	0.1906403	0.21107454	2.7936939	20	12 21.6	21.7
402298 2005 SL_{242}	17.1	X	125.69802	294.64366	347.55925	8.83431	0.1424838	0.21012460	2.8021074	20	12 26.5	21.8
402299 2005 SN_{245}	16.8	X	331.02553	34.72954	17.13137	8.74772	0.0575870	0.20181443	2.8785111	20	11 18.7	20.5
402300 2005 SX_{247}	16.9	X	190.51356	254.18938	4.78892	4.16799	0.0192002	0.21492023	2.7602676	20	—	—
402301 2005 SZ_{249}	17.0	X	71.32107	342.21216	12.81614	10.78730	0.2281275	0.21420185	2.7664356	20	—	—
402302 2005 SS_{279}	17.2	X	49.23964	303.88435	85.17173	2.82113	0.1362622	0.21277317	2.7788054	20	—	—
402303 2005 SF_{280}	17.0	X	57.54360	341.59808	15.01649	4.45280	0.0811200	0.20874672	2.8144245	20	—	—
402304 2005 SC_{290}	17.2	X	339.06136	351.72351	47.66766	7.29509	0.0699258	0.20085656	2.8876554	20	11 16.4	20.9
402305 2005 TO_{30}	16.7	X	53.49568	149.67246	255.94559	7.49278	0.3094829	0.21606239	2.7505313	20	—	—
402306 2005 TK_{35}	17.2	X	278.91508	324.43846	133.39386	2.88045	0.0285360	0.20243789	2.8725979	20	11 10.4	21.0
402307 2005 TN_{43}	16.9	X	49.54290	3.21686	7.63589	3.57317	0.1034515	0.21078190	2.7962791	20	—	—
402308 2005 TS_{50}	17.2	X	40.86489	76.34222	333.02829	10.32052	0.4252343	0.21186859	2.7867093	20	—	—
402309 2005 TL_{78}	17.0	X	85.63287	156.27591	181.23235	7.74546	0.2238468	0.21227434	2.7831571	20	—	—
402310 2005 TV_{87}	17.3	X	120.12339	277.30947	32.01302	3.95278	0.0819358	0.21375075	2.7703265	20	—	—
402311 2005 TH_{110}	16.4	X	151.57617	291.88554	358.55625	12.76597	0.0825465	0.21673107	2.7448709	20	—	—
402312 2005 TK_{111}	16.8	X	144.13103	290.63604	340.22753	4.20944	0.1217995	0.21192920	2.7861780	20	12 30.0	21.2
402313 2005 TH_{118}	17.4	X	29.22827	17.77983	336.08299	1.26785	0.0770603	0.20344303	2.8631285	20	11 30.7	21.1
402314 2005 TD_{123}	17.5	X	333.86385	55.16824	19.50451	2.08230	0.0488299	0.20697008	2.8305077	20	12 24.9	21.2
402315 2005 TL_{124}	17.5	X	306.85348	53.48723	7.09881	4.85282	0.0834148	0.19805872	2.9147864	20	10 24.6	21.2
402316 2005 TC_{125}	17.4	X	42.32730	88.85754	264.49700	0.60146	0.1514370	0.20549151	2.8440689	20	12 27.9	21.2
402317 2005 TR_{125}	19.2	X	241.86829	14.05383	19.71547	0.90558	0.1600506	0.31596229	2.1349083	20	6 16.2	21.9
402318 2005 TD_{136}	17.2	X	50.95580	347.63197	26.03625	9.19928	0.1631642	0.21138555	2.7909530	20	—	—
402319 2005 TH_{137}	17.3	X	87.72900	294.89479	38.89411	4.90280	0.0697129	0.21201622	2.7854155	20	—	—
402320 2005 TF_{143}	18.1	X	301.61528	252.42628	51.56950	5.76839	0.0587351	0.31229453	2.1515914	20	5 14.9	20.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
402321 2005 TH_{159}	17.3	X	103.63735	23.13542	310.74119	3.83801	0.1092078	0.21362139	2.7714447	20	—	—
402322 2005 TF_{177}	15.9	X	260.66122	336.82582	108.13071	16.90744	0.2197823	0.18217360	3.0818566	20	9 4.6	20.5
402323 2005 UZ_{3}	17.3	X	41.83572	193.95547	194.35874	5.49091	0.0408280	0.21335268	2.7737713	20	—	—
402324 2005 UO_{32}	17.0	X	57.04556	260.08023	44.40950	5.13011	0.1284255	0.19805917	2.9147820	20	11 10.6	21.0
402325 2005 UF_{56}	16.0	X	116.50194	144.37537	245.06152	14.66617	0.2132003	0.22175151	2.7032839	20	2 9.1	20.3
402326 2005 UB_{72}	16.7	X	41.03412	110.06630	293.57855	6.42417	0.2287583	0.21158327	2.7892139	20	—	—
402327 2005 US_{84}	17.2	X	32.36671	172.91900	189.85390	2.27288	0.1307320	0.20354697	2.8621537	20	12 23.8	21.1
402328 2005 UJ_{88}	16.7	X	20.90157	330.41920	57.33071	2.82885	0.1014609	0.20549418	2.8440443	20	—	—
402329 2005 UO_{89}	18.5	X	330.51138	20.45871	313.58896	3.81387	0.1505768	0.32268261	2.1051627	20	8 23.5	19.6
402330 2005 UB_{120}	17.4	X	38.01565	45.11532	303.15638	1.01243	0.0827788	0.20202513	2.8765093	20	12 5.7	21.4
402331 2005 UH_{168}	17.3	X	59.05787	283.28474	28.01042	6.13764	0.0629581	0.19917469	2.9038886	20	11 11.8	21.3
402332 2005 UX_{197}	17.3	X	9.68454	203.85616	171.51269	2.15883	0.0789113	0.20271797	2.8699514	20	12 1.9	20.9
402333 2005 UT_{206}	17.5	X	5.79940	315.79456	63.43073	3.02339	0.0780987	0.20299351	2.8673537	20	11 30.9	21.1
402334 2005 UV_{271}	16.9	X	46.90229	285.73555	110.77776	2.67096	0.0554898	0.20893650	2.8127201	20	—	—
402335 2005 UY_{287}	17.0	X	25.64725	321.86899	58.08816	6.90400	0.0767263	0.20516315	2.8471028	20	12 29.2	20.8
402336 2005 UA_{291}	18.3	X	264.47284	3.55439	354.58344	4.69141	0.0296822	0.31155092	2.1550136	20	6 14.3	20.7
402337 2005 UN_{323}	16.3	X	336.84446	90.39106	242.13630	14.65455	0.1079913	0.18506779	3.0496418	20	8 6.7	20.4
402338 2005 UC_{341}	16.7	X	61.31840	235.43264	71.38834	10.81539	0.0800729	0.19736924	2.9215708	20	11 13.7	20.8
402339 2005 UJ_{343}	16.8	X	51.91106	231.43548	180.64733	4.79271	0.1761592	0.21356989	2.7718903	20	—	—
402340 2005 UD_{371}	17.4	X	323.94281	71.93539	358.65847	1.24646	0.0669271	0.19900480	2.9055411	20	12 3.7	21.1
402341 2005 US_{400}	17.1	X	117.66873	328.52970	355.03693	12.32951	0.0757198	0.21848326	2.7301758	20	—	—
402342 2005 UG_{429}	16.9	X	338.75959	51.86342	350.78315	1.41911	0.1039719	0.19770967	2.9182160	20	11 20.7	20.3
402343 2005 UC_{461}	17.1	X	343.84765	167.63740	255.91398	4.39660	0.0644248	0.20039262	2.8921106	20	12 23.8	20.8
402344 2005 UL_{500}	17.1	X	109.92978	305.78695	105.64652	7.60926	0.1141598	0.29249355	2.2476319	20	2 14.1	19.6
402345 2005 UB_{511}	18.5	X	279.09272	233.26130	120.09515	0.36587	0.1513944	0.31512145	2.1387043	20	6 8.3	20.8
402346 2005 UM_{521}	17.3	X	66.11886	184.26107	155.22873	4.52515	0.1073771	0.20863607	2.8154195	20	—	—
402347 2005 UQ_{521}	17.4	X	337.39907	297.56211	145.69201	4.40684	0.0724457	0.20866036	2.8152011	20	—	—
402348 2005 UZ_{522}	16.5	X	305.48470	241.04798	114.59194	12.60412	0.0464919	0.18422984	3.0588821	20	8 1.4	20.5
402349 2005 UR_{527}	16.7	X	12.74062	302.36039	47.99238	2.69811	0.1372161	0.19453227	2.9499067	20	11 9.3	20.2
402350 2005 VO_{8}	16.9	X	45.41840	274.33360	89.34192	3.12512	0.1081401	0.20590842	2.8402287	20	—	—
402351 2005 VY_{31}	16.6	X	318.54057	357.63709	69.35386	5.99663	0.0986170	0.19653839	2.9297987	20	11 20.5	20.0
402352 2005 VF_{54}	16.9	X	185.81265	33.51272	120.56206	3.28540	0.1019625	0.18832575	3.0143678	20	9 20.2	21.5
402353 2005 VC_{55}	17.0	X	70.97511	26.88588	359.43958	3.71072	0.1102584	0.21425552	2.7659736	20	—	—
402354 2005 VK_{58}	17.1	X	310.26123	113.85041	346.21588	5.28254	0.0872253	0.20359855	2.8616703	20	12 22.4	20.6
402355 2005 VW_{76}	16.7	X	55.44595	85.12495	314.73869	1.42476	0.1886519	0.21269522	2.7794843	20	—	—
402356 2005 VX_{87}	16.6	X	41.01189	244.86160	73.41257	10.49510	0.1019089	0.19549731	2.9401909	20	11 6.3	20.6
402357 2005 VL_{113}	16.3	X	268.04332	28.50672	51.22368	14.99231	0.1930606	0.18859580	3.0114896	20	9 15.3	20.7
402358 2005 VU_{117}	18.8	X	240.15294	204.13724	181.33710	2.40538	0.1090348	0.31196428	2.1531096	20	6 8.8	21.6
402359 2005 VE_{124}	17.5	X	21.51960	118.26123	248.88382	0.77301	0.1778204	0.19955789	2.9001699	20	12 20.7	21.1
402360 2005 VQ_{130}	17.2	X	102.41645	159.57808	155.62810	6.04703	0.0809870	0.21032802	2.8003004	20	—	—
402361 2005 VV_{134}	16.9	X	322.14366	283.46507	129.04949	11.11445	0.0955545	0.19857046	2.9097765	20	11 11.8	20.6
402362 2005 WL_{17}	18.8	X	298.63891	283.44869	74.66641	3.88853	0.3137358	0.32091794	2.1128730	20	6 18.1	20.5
402363 2005 WW_{18}	15.6	X	98.32378	118.20555	253.91936	11.52094	0.1085893	0.21236894	2.7823305	20	—	—
402364 2005 WB_{28}	17.1	X	42.77034	312.73551	40.05667	2.02976	0.0518596	0.19878098	2.9077216	20	12 12.0	21.1
402365 2005 WC_{38}	16.3	X	261.01382	19.98733	92.90074	5.30868	0.1336233	0.19092544	2.9869424	20	10 21.3	20.3
402366 2005 WP_{42}	18.7	X	244.66295	4.64355	40.90416	1.45523	0.1373287	0.31560111	2.1365367	20	7 10.7	21.1
402367 2005 WD_{62}	16.7	X	309.78928	284.15574	68.21539	4.59087	0.1240842	0.18075053	3.0980113	20	7 25.4	20.5
402368 2005 WT_{135}	16.8	X	29.90095	311.99914	67.59102	3.29211	0.1251347	0.20214003	2.8754192	20	—	—
402369 2005 WY_{154}	17.0	X	314.54777	342.07400	77.06514	3.01110	0.0935952	0.19255004	2.9701176	20	11 3.5	20.6
402370 2005 WH_{178}	16.3	X	250.92310	36.51611	87.75636	11.50340	0.0943898	0.18910741	3.0060557	20	10 30.3	20.6
402371 2005 WN_{210}	16.5	X	5.26661	275.66184	75.02841	5.30651	0.0900767	0.19060853	2.9902523	20	10 24.9	20.3
402372 2005 WO_{210}	16.0	X	175.92012	279.39968	266.82173	9.17729	0.0448338	0.18832206	3.0144072	20	10 16.8	20.6
402373 2005 XG_{4}	16.4	X	249.49625	67.99742	23.10937	10.28806	0.1169304	0.18731791	3.0251705	20	9 12.6	20.7
402374 2005 XO_{21}	17.5	X	348.81031	323.95965	56.37117	2.76547	0.0815527	0.19519571	2.9432187	20	11 6.2	21.2
402375 2005 XX_{31}	16.6	X	324.39130	337.91839	84.12852	4.88567	0.1176431	0.19257315	2.9698799	20	11 22.4	20.0
402376 2005 XT_{43}	16.9	X	37.71867	357.38073	38.70584	2.45841	0.0788329	0.20516917	2.8470470	20	—	—
402377 2005 XJ_{75}	18.0	X	22.84893	265.55266	307.05484	5.21647	0.0849773	0.29753415	2.2221745	20	5 12.4	20.1
402378 2005 XS_{84}	17.6	X	191.52419	354.52378	95.40757	24.23904	0.0607767	0.37569139	1.9021666	20	7 19.1	19.7
402379 2005 XO_{110}	18.1	X	321.44886	188.64609	344.17802	2.05938	0.1493037	0.26814816	2.3816951	20	—	—
402380 2005 YC_{21}	16.1	X	192.64413	18.42160	104.29792	11.21214	0.0278371	0.17633178	3.1495535	20	8 24.5	20.7
402381 2005 YK_{53}	16.7	X	214.94524	178.14718	300.81174	7.36102	0.0800055	0.17918616	3.1160165	20	9 4.4	21.4
402382 2005 YY_{64}	18.1	X	33.98348	59.61444	95.94424	6.99244	0.1691509	0.28725323	2.2748850	20	3 16.2	19.8
402383 2005 YY_{68}	18.1	X	340.70628	158.05842	51.13741	1.29951	0.1918190	0.28526334	2.2854518	20	2 7.8	20.3
402384 2005 YC_{69}	16.0	X	231.94056	152.65903	308.58641	4.96227	0.1180753	0.18069366	3.0986613	20	8 29.9	20.5
402385 2005 YX_{69}	16.0	X	159.31683	231.79942	306.98902	5.70977	0.1003820	0.17815401	3.1280401	20	9 18.7	20.9
402386 2005 YX_{70}	15.2	X	191.91022	187.45429	299.22935	15.56169	0.0949071	0.17641710	3.1485379	20	8 17.3	20.2
402387 2005 YM_{71}	16.8	X	15.94847	53.38903	358.15952	3.58813	0.2118057	0.20268103	2.8703002	20	—	—
402388 2005 YT_{72}	16.1	X	58.78550	208.62957	89.03026	10.88970	0.1266701	0.18667990	3.0320592	20	11 5.9	20.5
402389 2005 YU_{77}	16.6	X	320.44776	319.13211	88.65695	4.23326	0.1345526	0.18961972	3.0006387	20	10 27.6	20.1
402390 2005 YZ_{78}	16.1	X	90.36082	115.99388	105.00570	12.02784	0.0424875	0.17506088	3.1647785	20	8 27.3	20.7
402391 2005 YL_{79}	18.4	X	267.39393	58.57265	292.82144	2.74859	0.1566096	0.30571734	2.1823413	20	5 17.8	21.1
402392 2005 YE_{83}	15.9	X	58.61098	151.73170	123.14532	11.45563	0.0937721	0.17798811	3.1299835	20	10 3.6	20.4
402393 2005 YM_{88}	16.2	X	134.04636	258.05885	289.83735	8.14491	0.0292228	0.17616585	3.1515309	20	8 30.0	20.8
402394 2005 YM_{90}	15.7	X	107.83986	321.94155	285.48737	9.63855	0.0427022	0.18114628	3.0934975	20	10 12.4	20.4
402395 2005 YW_{97}	17.6	X	283.10940	30.09178	324.53542	3.18636	0.1505010	0.30964309	2.1638565	20	6 16.7	19.9
402396 2005 YM_{98}	15.7	X	172.23391	199.42026	301.81929	16.65354	0.1113410	0.17576318	3.1563424	20	8 15.2	20.8
402397 2005 YA_{104}	16.9	X	55.35262	255.71755	109.82455	3.19146	0.1130647	0.19977424	2.8980757	20	—	—
402398 2005 YX_{114}	15.6	X	337.47334	230.69585	96.78515	9.19844	0.0537695	0.17290552	3.1910246	20	8 10.0	19.8
402399 2005 YJ_{116}	16.9	X	318.75979	18.45307	27.88160	2.14804	0.1661486	0.18723546	3.0260585	20	10 18.6	19.9
402400 2005 YJ_{118}	16.8	X	271.38157	127.73907	338.52254	2.47862	0.0965294	0.18748607	3.0233612	20	10 28.1	20.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
402401 2005 YL_{120}	18.9	X	161.24214	170.55228	265.06690	3.82106	0.1431924	0.29953290	2.2122780	20	5 19.1	22.2
402402 2005 YJ_{123}	15.6	X	308.20101	0.90376	64.31754	10.98076	0.1266984	0.19004556	2.9961547	20	10 31.5	19.2
402403 2005 YH_{128}	15.9	X	186.29938	182.39649	303.19391	17.08643	0.2559823	0.17431495	3.1738005	20	8 7.3	21.6
402404 2005 YG_{129}	16.1	X	191.63014	197.05921	297.89255	4.33780	0.1390645	0.17922299	3.1155896	20	8 28.2	21.2
402405 2005 YU_{132}	16.3	X	211.93489	36.34116	79.24568	10.98691	0.0739415	0.17952537	3.1120901	20	9 5.8	21.1
402406 2005 YR_{134}	16.3	X	216.47918	178.16150	320.79576	10.46583	0.0480943	0.18370526	3.0647025	20	10 2.7	20.9
402407 2005 YA_{139}	17.1	X	286.37661	110.05970	321.29015	0.83221	0.1856336	0.18653343	3.0336462	20	9 22.5	20.8
402408 2005 YT_{142}	18.7	X	170.55569	5.04548	80.31922	2.54111	0.0969408	0.30201640	2.2001335	20	6 11.0	21.4
402409 2005 YR_{148}	16.2	X	113.49418	258.38414	322.20895	8.50389	0.0518819	0.17807719	3.1289397	20	9 18.2	20.8
402410 2005 YP_{150}	16.2	X	186.23010	166.48781	317.25788	8.41634	0.0643316	0.17430600	3.1739092	20	8 12.9	20.9
402411 2005 YO_{154}	18.1	X	164.45190	105.75167	309.12768	6.27760	0.0563053	0.29478329	2.2359777	20	4 16.5	21.1
402412 2005 YH_{158}	16.5	X	194.61774	207.14266	278.24306	13.86081	0.1877442	0.17731531	3.1378961	20	8 13.2	21.9
402413 2005 YY_{169}	16.1	X	312.60034	279.73567	117.96319	12.58636	0.1312463	0.18580423	3.0415781	20	10 4.2	19.9
402414 2005 YP_{179}	16.3	X	88.05949	148.80210	120.91486	9.65607	0.0168145	0.18382674	3.0633522	20	10 22.9	20.8
402415 2005 YV_{191}	17.4	X	296.04158	154.55944	108.88847	7.59452	0.1129684	0.28689965	2.2767536	20	3 4.1	20.2
402416 2005 YL_{192}	16.4	X	332.94037	72.15320	308.35297	15.70707	0.1791297	0.18425880	3.0585615	20	9 29.6	20.0
402417 2005 YV_{196}	16.7	X	328.36347	90.85218	287.01044	8.39609	0.1010640	0.18448137	3.0561010	20	9 24.6	20.7
402418 2005 YH_{201}	16.1	X	175.27366	54.55478	122.30180	10.46489	0.0321435	0.18125842	3.0922214	20	10 12.3	20.7
402419 2005 YJ_{208}	16.1	X	299.19449	85.62188	331.47775	10.50028	0.1614480	0.18728350	3.0255410	20	9 24.4	19.8
402420 2005 YK_{208}	15.9	X	203.91305	158.24749	319.16680	27.36026	0.1401399	0.17689429	3.1428731	20	8 17.3	21.0
402421 2005 YG_{235}	16.3	X	28.36762	345.37801	306.30382	6.07889	0.0364861	0.17754117	3.1352343	20	8 31.2	20.5
402422 2005 YH_{270}	16.2	X	335.57643	267.79743	131.42892	10.64621	0.0962670	0.18833663	3.0142517	20	11 12.8	20.1
402423 2005 YC_{274}	16.7	X	339.00696	100.93614	323.57605	9.88931	0.0908972	0.19198216	2.9759717	20	12 17.4	20.5
402424 2006 AR_{11}	16.0	X	72.75799	108.20838	123.69838	14.31633	0.0486527	0.17261357	3.1946216	20	8 17.7	20.5
402425 2006 AO_{26}	16.7	X	205.60363	166.53268	296.23050	15.81613	0.1551667	0.17519480	3.1631654	20	7 31.6	21.7
402426 2006 AW_{30}	18.5	X	253.99232	344.90517	49.48200	1.57699	0.1624010	0.31267094	2.1498642	20	7 2.5	20.9
402427 2006 AN_{33}	15.6	X	253.10906	31.08737	77.76266	16.09144	0.1041639	0.18495356	3.0508973	20	10 15.4	20.1
402428 2006 AC_{36}	16.5	X	250.68920	9.01255	93.18123	3.27838	0.0681780	0.18197818	3.0840625	20	10 2.1	20.8
402429 2006 AG_{36}	18.3	X	347.35361	211.24839	328.86406	2.00680	0.1299257	0.28061526	2.3106200	20	1 18.5	20.7
402430 2006 AP_{40}	15.8	X	330.23483	283.84829	121.13739	11.77360	0.0809821	0.18696939	3.0289287	20	11 12.0	19.8
402431 2006 AK_{42}	16.0	X	311.52713	122.69853	296.83134	14.63093	0.0981091	0.18630551	3.0361199	20	10 20.6	20.1
402432 2006 AE_{49}	16.3	X	236.90824	311.76932	96.36832	27.48628	0.1414245	0.17356155	3.1829785	20	6 28.4	21.2
402433 2006 AD_{61}	16.5	X	44.15669	133.22801	133.89721	9.00340	0.0222178	0.17342407	3.1846604	20	8 21.3	20.8
402434 2006 AX_{64}	16.4	X	179.49818	45.45268	107.52677	10.53479	0.0438597	0.17848491	3.1241728	20	9 16.7	21.1
402435 2006 AD_{84}	16.0	X	218.62077	86.05949	16.15187	9.51104	0.1866421	0.17766679	3.1337562	20	8 15.6	21.1
402436 2006 AM_{93}	15.8	X	184.10442	186.56668	319.10671	14.48670	0.0445592	0.17388026	3.1790878	20	9 3.8	20.6
402437 2006 AW_{96}	15.5	X	242.23387	130.91853	327.84287	28.13529	0.1058825	0.17840943	3.1250539	20	9 3.1	20.2
402438 2006 AK_{101}	18.3	X	210.75653	258.57534	152.62724	2.60962	0.1396804	0.30239122	2.1983150	20	6 7.5	21.5
402439 2006 BZ_{12}	17.9	X	244.79032	254.16792	144.36949	6.39052	0.1485344	0.30593475	2.1813073	20	6 28.1	20.8
402440 2006 BE_{31}	16.0	X	342.63423	216.63672	130.04932	12.46627	0.0411510	0.17471029	3.1690108	20	9 12.9	20.3
402441 2006 BJ_{31}	15.6	X	174.65484	180.97625	323.17595	18.47374	0.0913320	0.17220867	3.1996271	20	8 23.3	20.5
402442 2006 BQ_{34}	17.0	X	16.14603	325.38470	29.08903	1.34028	0.0641878	0.18507375	3.0495763	20	11 8.2	20.9
402443 2006 BX_{35}	15.8	X	263.01779	100.57503	321.40646	8.56006	0.0828740	0.17658353	3.1465593	20	8 22.6	20.1
402444 2006 BS_{44}	15.9	X	189.86060	156.69465	342.97199	9.33043	0.1686057	0.17205445	3.2015389	20	9 1.1	21.0
402445 2006 BV_{45}	17.2	X	67.20364	198.38511	321.63478	6.32000	0.0479226	0.29025224	2.2591878	20	5 1.7	19.8
402446 2006 BN_{52}	16.0	X	225.03790	327.82003	131.26356	10.12102	0.0471195	0.17438633	3.1729344	20	8 29.9	20.5
402447 2006 BK_{55}	17.9	X	69.00001	299.45504	149.32742	45.47356	0.2018006	0.41732205	1.7734618	20	1 10.0	19.9
402448 2006 BX_{58}	15.8	X	260.41351	142.17801	333.06681	14.27224	0.0153731	0.18058238	3.0999342	20	10 29.2	20.4
402449 2006 BE_{59}	18.0	X	304.79552	260.67220	318.65280	0.66781	0.1347280	0.27560842	2.3385198	20	1 11.4	21.1
402450 2006 BP_{63}	18.0	X	50.95755	249.62887	291.18699	2.29766	0.1097154	0.29254039	2.2473920	20	5 18.7	20.2
402451 2006 BC_{64}	16.2	X	231.21549	328.95509	138.80746	6.23551	0.1900711	0.17955899	3.1117017	20	8 31.3	20.9
402452 2006 BJ_{64}	16.9	X	347.35392	69.68774	313.53242	7.67759	0.0832281	0.18520756	3.0481072	20	11 1.8	20.9
402453 2006 BA_{87}	17.6	X	30.73941	201.45571	326.67502	7.83144	0.0632901	0.28646317	2.2790657	20	3 17.0	20.0
402454 2006 BS_{87}	18.2	X	338.58492	216.31317	330.14919	6.13944	0.0549676	0.27953065	2.3165931	20	1 25.9	20.8
402455 2006 BQ_{88}	16.2	X	283.97504	299.10354	128.08509	10.25805	0.0631375	0.18003051	3.1062660	20	10 4.3	20.5
402456 2006 BM_{90}	15.7	X	351.01656	251.36783	139.85133	10.52288	0.0723097	0.18359197	3.0659631	20	11 22.6	19.8
402457 2006 BE_{94}	17.2	X	313.19273	255.12797	315.90090	5.18531	0.1366130	0.27553370	2.3389426	20	1 11.3	20.2
402458 2006 BD_{95}	16.1	X	294.93274	114.34045	322.65607	5.48545	0.1306689	0.18239166	3.0793997	20	10 17.7	20.1
402459 2006 BV_{97}	16.3	X	213.61624	151.30854	335.68694	8.38694	0.0574021	0.17510293	3.1642717	20	9 15.8	21.0
402460 2006 BL_{98}	16.3	X	138.14553	225.71851	302.84329	10.38598	0.0581601	0.17251610	3.1958248	20	8 13.7	21.1
402461 2006 BO_{110}	16.5	X	209.06730	87.95227	13.47724	2.80987	0.1392088	0.17269473	3.1936206	20	8 5.9	21.5
402462 2006 BV_{112}	16.4	X	163.15507	25.31051	114.10585	5.47147	0.0539375	0.16895994	3.2405114	20	8 7.5	21.3
402463 2006 BM_{149}	16.8	X	311.77099	211.09265	321.03998	23.50071	0.2406580	0.26857189	2.3791894	20	—	—
402464 2006 BB_{153}	17.8	X	308.31037	210.91567	20.32247	2.07274	0.1524181	0.27918057	2.3185293	20	1 29.2	20.7
402465 2006 BU_{157}	16.3	X	280.16247	113.80659	349.49591	6.96085	0.1476131	0.18375161	3.0641871	20	10 27.2	20.4
402466 2006 BA_{159}	15.8	X	358.80828	247.83650	147.70313	14.69655	0.1400877	0.18967164	3.0000912	20	12 16.3	19.7
402467 2006 BW_{166}	16.4	X	309.43844	289.53660	106.00435	1.51245	0.0469257	0.17660621	3.1462900	20	9 26.7	20.7
402468 2006 BK_{185}	16.2	X	277.52765	330.48589	118.97605	9.00963	0.1045696	0.18410071	3.0603122	20	10 18.9	20.4
402469 2006 BK_{186}	17.8	X	355.36836	240.81548	315.64720	4.92945	0.1040041	0.28167746	2.3048075	20	2 27.0	20.1
402470 2006 BD_{198}	15.8	X	333.17288	69.95618	309.91264	9.73789	0.0780031	0.17830453	3.1262794	20	10 3.6	20.0
402471 2006 BM_{201}	17.6	X	314.80169	218.07930	354.05397	3.97358	0.1362685	0.27780353	2.3261848	20	1 14.9	20.4
402472 2006 BO_{201}	16.7	X	66.41427	234.02263	42.47295	2.01554	0.0568778	0.17549254	3.1595867	20	10 5.3	21.2
402473 2006 BK_{209}	18.8	X	127.01867	171.41400	298.81778	1.50404	0.1085514	0.29602995	2.2296958	20	5 25.9	21.7
402474 2006 BS_{224}	15.4	X	264.16163	303.80354	147.60011	22.77911	0.0862801	0.18002990	3.1062730	20	10 6.1	19.9
402475 2006 BD_{240}	16.3	X	17.92232	41.91489	336.64418	8.78405	0.1074190	0.18881042	3.0092071	20	12 16.8	20.4
402476 2006 BR_{240}	18.7	X	126.75223	147.39765	334.16851	6.24468	0.0932161	0.29667154	2.2264800	20	6 8.8	21.8
402477 2006 BC_{243}	16.0	X	180.79134	187.31381	341.77198	10.07847	0.0247354	0.17733571	3.1376554	20	10 1.2	20.6
402478 2006 BS_{261}	17.6	X	179.61242	312.61486	133.87255	6.77024	0.1345682	0.30031600	2.2084305	20	6 22.9	20.8
402479 2006 BW_{273}	15.6	X	323.27989	45.75256	338.78026	14.23565	0.1525865	0.17866740	3.1220451	20	9 21.9	19.3
402480 2006 BK_{274}	15.4	X	325.12334	27.26739	337.92761	18.92285	0.1325274	0.17239759	3.1972892	20	9 2.7	19.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
402481 2006 BR_{282}	18.7	X	326.13770	182.02057	14.84225	2.58831	0.1383501	0.27756371	2.3275245	20	1 8.9	21.5
402482 2006 CB_{2}	15.8	X	231.90191	127.90041	339.09671	9.15693	0.0616031	0.17688137	3.1430261	20	9 12.6	20.3
402483 2006 CA_{14}	17.3	X	268.07551	354.91731	316.41300	5.92224	0.1345882	0.28998165	2.2605930	20	3 24.9	20.4
402484 2006 CY_{24}	16.0	X	352.53306	59.11144	319.95326	8.93039	0.1343726	0.18613855	3.0379352	20	11 8.0	19.7
402485 2006 CN_{29}	16.0	X	352.71466	28.41411	318.54823	18.07274	0.1609713	0.17668250	3.1453841	20	9 20.1	19.9
402486 2006 CA_{35}	17.7	X	357.95461	51.76644	151.77350	7.13637	0.0500369	0.28706346	2.2758874	20	3 20.2	20.1
402487 2006 CD_{42}	17.3	X	296.83817	242.15839	323.13199	12.06026	0.1669879	0.27004334	2.3705388	20	—	—
402488 2006 CA_{45}	17.9	X	225.78099	44.99148	5.22937	3.96068	0.1216982	0.30487123	2.1863772	20	6 24.8	20.8
402489 2006 CQ_{45}	17.7	X	211.75811	57.19210	348.98382	4.39838	0.1294645	0.30166237	2.2018545	20	5 31.9	20.8
402490 2006 CH_{47}	18.1	X	268.68500	164.43466	129.31815	10.28884	0.0843405	0.28669158	2.2778551	20	3 14.8	21.1
402491 2006 CR_{58}	16.7	X	237.47417	346.78626	138.10978	10.46831	0.1372760	0.18206032	3.0831348	20	10 7.1	21.3
402492 2006 CT_{59}	17.6	X	262.76664	248.07010	355.13422	2.16762	0.1269109	0.27077431	2.3662706	20	—	—
402493 2006 DS_{1}	16.2	X	246.13780	110.83444	355.35439	11.81354	0.1876160	0.17985280	3.1083119	20	9 13.9	20.8
402494 2006 DZ_{7}	17.1	X	265.56893	227.93099	10.28410	4.84780	0.1968109	0.26701206	2.3884462	20	—	—
402495 2006 DN_{9}	15.2	X	182.62843	171.32430	355.52729	15.06273	0.2063738	0.17476257	3.1683788	20	9 24.3	20.6
402496 2006 DW_{12}	17.1	X	358.43759	202.70053	348.78131	6.20807	0.1133383	0.28350102	2.2949134	20	2 25.9	19.2
402497 2006 DP_{16}	16.6	X	218.25968	102.82062	29.25793	3.83770	0.1423278	0.17791490	3.1308421	20	9 21.7	21.3
402498 2006 DC_{19}	18.0	X	295.84922	151.92852	64.78014	2.54389	0.1415434	0.27343992	2.3508672	20	—	—
402499 2006 DJ_{26}	15.9	X	331.72262	60.35744	328.95937	10.48048	0.0200427	0.17861825	3.1226178	20	10 14.4	20.4
402500 2006 DU_{38}	16.3	X	338.62265	63.81272	353.31418	8.25253	0.0768857	0.18460329	3.0547552	20	12 3.0	20.3
402501 2006 DC_{40}	15.4	X	239.30165	331.77342	165.54142	18.52921	0.1714946	0.18187381	3.0852423	20	10 19.7	20.1
402502 2006 DP_{42}	16.6	X	324.06719	66.72003	338.02031	10.35853	0.1337988	0.18211409	3.0825279	20	10 21.4	20.4
402503 2006 DO_{45}	15.9	X	151.63873	15.13255	156.68797	9.58741	0.0828382	0.17042766	3.2218797	20	9 4.3	20.8
402504 2006 DK_{52}	17.6	X	246.91090	183.42908	93.26357	3.30937	0.1809307	0.27293016	2.3537935	20	1 19.8	21.4
402505 2006 DZ_{55}	16.2	X	280.41520	346.21350	81.89614	5.72742	0.1121804	0.17666406	3.1456029	20	9 22.2	20.4
402506 2006 DV_{79}	18.1	X	341.21810	243.46843	324.13663	1.78536	0.1751393	0.27885800	2.3203169	20	2 9.9	20.5
402507 2006 DN_{82}	15.5	X	241.08844	157.06613	343.96134	9.13110	0.0430334	0.17950584	3.1123158	20	11 4.9	20.1
402508 2006 DK_{89}	15.9	X	331.98465	61.79869	350.97425	17.73810	0.0873359	0.18094176	3.0958281	20	11 11.3	20.2
402509 2006 DY_{93}	18.0	X	269.15416	231.73959	359.49642	5.85415	0.1401383	0.26703059	2.3883357	20	—	—
402510 2006 DS_{98}	17.7	X	315.99549	34.22264	158.36667	6.50341	0.1543109	0.27308646	2.3528953	20	—	—
402511 2006 DE_{105}	17.8	X	321.32217	190.98274	350.25481	4.83308	0.2169930	0.27086942	2.3657167	20	—	—
402512 2006 DR_{107}	17.9	X	306.11538	201.95329	359.80989	1.41264	0.1140801	0.27081351	2.3660423	20	—	—
402513 2006 DN_{121}	15.3	X	187.65433	178.07567	350.84038	28.98075	0.1717227	0.17661649	3.1461679	20	9 26.4	20.7
402514 2006 DQ_{123}	15.7	X	335.85099	55.19656	339.76558	12.16530	0.1199002	0.18021537	3.1041415	20	10 27.4	19.7
402515 2006 DT_{134}	18.0	X	313.34651	84.48193	113.13497	3.22829	0.1444641	0.27277927	2.3546615	20	—	—
402516 2006 DV_{138}	17.2	X	283.21004	133.68229	135.36772	6.70772	0.1243665	0.27889237	2.3201263	20	2 21.4	20.1
402517 2006 DA_{141}	17.8	X	13.18344	76.89985	77.32019	2.98841	0.1243349	0.27724891	2.3292860	20	1 28.5	19.9
402518 2006 DV_{157}	15.8	X	285.53249	272.71586	157.69656	11.99588	0.0658463	0.17572559	3.1567925	20	10 7.9	20.1
402519 2006 DG_{158}	15.6	X	271.32079	317.03149	160.54614	17.67169	0.1690671	0.18347800	3.0672326	20	11 5.5	19.9
402520 2006 DR_{161}	15.8	X	113.56452	89.90148	147.80985	12.70925	0.0334530	0.17499753	3.1655422	20	10 14.0	20.5
402521 2006 DV_{195}	16.9	X	333.33739	186.36144	32.43152	5.19920	0.0982218	0.28144373	2.3060833	20	2 27.4	19.4
402522 2006 DB_{205}	16.3	X	309.03329	34.97930	333.36833	9.75354	0.0446896	0.17188000	3.2037048	20	8 21.7	20.5
402523 2006 EF_{12}	15.9	X	11.64715	4.20936	354.75859	18.19299	0.1760248	0.17638695	3.1488967	20	11 11.6	20.1
402524 2006 ES_{13}	15.6	X	249.51440	89.73789	350.64504	12.34004	0.0870935	0.17080103	3.2171827	20	8 30.5	20.1
402525 2006 ER_{21}	18.3	X	295.52667	212.13394	351.51528	3.01963	0.1218249	0.27087566	2.3656803	20	—	—
402526 2006 EL_{24}	16.9	X	284.86783	81.15036	331.70681	5.93012	0.0953117	0.17499269	3.1656005	20	9 7.0	21.2
402527 2006 EZ_{24}	15.9	X	3.18218	196.78156	157.74040	10.68332	0.0599082	0.17686221	3.1432530	20	10 22.6	20.1
402528 2006 EC_{25}	16.1	X	318.57513	50.21204	339.56962	11.29534	0.0717297	0.17599225	3.1536030	20	9 26.3	20.3
402529 2006 ES_{31}	17.8	X	14.30239	168.09366	18.41153	5.92848	0.0987869	0.28202638	2.3029061	20	3 20.8	20.0
402530 2006 EW_{45}	16.1	X	239.77912	315.71914	175.25689	6.24073	0.1128409	0.17979975	3.1089232	20	10 17.4	20.7
402531 2006 ET_{55}	18.2	X	53.14608	191.51514	306.54754	2.12760	0.0966571	0.28245552	2.3005729	20	3 15.8	20.4
402532 2006 ER_{67}	16.6	X	251.02788	302.65113	137.18624	3.99996	0.0775879	0.17630211	3.1499069	20	9 1.3	21.0
402533 2006 EU_{74}	18.0	X	258.38292	229.39821	62.16960	2.65661	0.1250257	0.27737787	2.3285640	20	2 23.2	21.2
402534 2006 FY_{10}	17.6	X	312.45988	110.50075	104.39992	2.16245	0.1271679	0.27331150	2.3516036	20	1 16.9	20.5
402535 2006 FC_{24}	17.8	X	106.75274	276.69031	166.33121	4.08059	0.0545362	0.27729744	2.3290143	20	3 15.4	20.5
402536 2006 FT_{42}	17.4	X	116.77784	279.68772	180.57999	6.67219	0.0432856	0.28256174	2.2999963	20	4 21.6	20.1
402537 2006 FN_{43}	17.0	X	3.09618	196.75267	1.09484	5.06898	0.0650881	0.28117436	2.3075559	20	3 18.4	19.4
402538 2006 FP_{53}	17.5	X	271.81900	67.41176	203.07259	6.12003	0.1142226	0.27196767	2.3593436	20	2 9.1	20.9
402539 2006 GE_{1}	17.9	X	346.64251	51.67191	153.48903	5.22628	0.1740881	0.27764270	2.3270830	20	2 16.2	20.0
402540 2006 GD_{49}	16.8	X	345.94266	218.95431	312.57637	23.65199	0.1966983	0.27312424	2.3526783	20	—	—
402541 2006 HY_{11}	17.9	X	305.37870	110.17622	96.22831	4.90370	0.1956357	0.26791887	2.3830538	20	—	—
402542 2006 HS_{48}	18.1	X	224.47645	208.56097	69.52345	4.20990	0.1786740	0.26261649	2.4150236	20	1 3.3	21.9
402543 2006 HP_{66}	17.6	X	196.13743	270.17284	65.51739	3.26738	0.2016344	0.26548019	2.3976253	20	2 18.9	21.6
402544 2006 HH_{112}	16.0	X	11.60283	347.59439	5.86104	9.68856	0.0772857	0.17403136	3.1772475	20	10 28.2	20.2
402545 2006 JN_{4}	17.1	X	291.78373	19.79124	199.24083	5.75743	0.0501296	0.26647825	2.3916348	20	1 7.3	20.3
402546 2006 JJ_{6}	17.5	X	243.70938	193.97810	91.92399	3.76627	0.2013596	0.26527863	2.3988396	20	1 28.4	21.4
402547 2006 JT_{9}	17.7	X	281.70952	308.60492	243.93823	3.65156	0.1220224	0.25937138	2.4351255	20	—	—
402548 2006 JX_{20}	17.4	X	225.18595	142.50657	125.25211	7.48826	0.0899435	0.25979533	2.4324756	20	—	—
402549 2006 JV_{44}	17.6	X	240.40991	168.78975	172.12150	6.10315	0.1587579	0.27989479	2.3145834	20	4 4.9	20.9
402550 2006 KE_{53}	17.4	X	184.79550	144.85635	96.30480	6.39676	0.1405794	0.24700287	2.5157533	20	—	—
402551 2006 KN_{62}	17.2	X	226.40513	162.39048	145.25269	4.82530	0.1323251	0.26531523	2.3986189	20	2 10.3	20.9
402552 2006 KQ_{91}	17.2	X	194.40680	120.43883	212.98708	6.62029	0.1247193	0.26514851	2.3996243	20	2 9.0	21.0
402553 2006 KW_{94}	17.7	X	155.74376	224.51088	130.13056	3.33640	0.1953532	0.25911789	2.4367134	20	2 5.9	21.4
402554 2006 KM_{108}	18.5	X	315.19174	172.63597	38.24633	2.62093	0.1269406	0.26985936	2.3716161	20	1 16.3	21.4
402555 2006 MU_{5}	17.1	X	203.54794	216.31313	100.37932	3.57636	0.2016575	0.25604779	2.4561527	20	2 2.2	21.1
402556 2006 PX_{27}	15.8	X	247.66386	143.48852	216.33156	5.35476	0.2940280	0.12509678	3.9594843	20	4 28.5	22.2
402557 2006 QU_{1}	17.2	X	67.98041	26.74095	315.82457	17.78662	0.0817278	0.37397767	1.9079732	20	—	—
402558 2006 QD_{18}	17.5	X	146.61365	286.91224	55.42870	4.73714	0.2664446	0.24491662	2.5300195	20	1 22.6	21.5
402559 2006 QP_{19}	17.3	X	123.21658	267.34419	111.74270	13.23802	0.2823467	0.24401886	2.5362211	20	2 17.9	21.2
402560 2006 QR_{35}	17.9	X	358.47341	50.46559	341.90900	19.62784	0.0743399	0.36777650	1.9293606	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
402561 2006 QP_{54}	15.2	X	250.22637	326.88319	35.75051	3.21293	0.2282325	0.12403546	3.9820386	20	5 9.1	21.4
402562 2006 QO_{60}	17.6	X	151.92278	258.22847	128.20846	3.53253	0.2296818	0.25285917	2.4767580	20	3 16.7	21.6
402563 2006 QW_{61}	17.2	X	171.33742	349.76404	330.97025	12.49140	0.1591672	0.24602533	2.5224128	20	1 11.3	21.3
402564 2006 QA_{123}	17.7	X	101.79176	317.77111	58.06167	3.90097	0.2634615	0.23932265	2.5692923	20	1 17.4	20.9
402565 2006 RV_{4}	17.0	X	62.66126	10.13265	9.86275	11.92841	0.1241640	0.23041208	2.6351129	20	—	—
402566 2006 RK_{7}	17.2	X	154.83304	107.90728	241.64433	5.26228	0.1803878	0.24709643	2.5151182	20	1 28.2	21.1
402567 2006 RB_{11}	18.3	X	134.57788	334.63553	356.72574	2.99233	0.3153767	0.24031638	2.5622045	20	1 3.7	22.2
402568 2006 RN_{25}	18.4	X	140.95830	42.99738	294.21669	4.28546	0.2477909	0.24311145	2.5425282	20	1 8.9	22.3
402569 2006 RG_{26}	17.5	X	150.57917	348.99661	345.43950	7.73912	0.2015214	0.24426529	2.5345151	20	1 11.2	21.5
402570 2006 RV_{33}	17.0	X	63.09130	213.49930	186.77374	14.55755	0.1059271	0.23628776	2.5912455	20	—	—
402571 2006 RK_{35}	17.3	X	150.47055	195.54720	160.62929	12.35223	0.2170755	0.24605503	2.5222098	20	2 4.8	21.3
402572 2006 RB_{47}	17.6	X	155.52239	151.35356	175.89179	5.62738	0.2658906	0.24219618	2.5489297	20	1 10.6	21.9
402573 2006 RB_{52}	16.8	X	139.74145	8.35733	193.52648	8.95389	0.0872721	0.20884889	2.8135066	20	10 2.7	21.0
402574 2006 RC_{53}	17.5	X	37.84568	24.98046	52.02713	1.33790	0.1939049	0.23213350	2.6220693	20	—	—
402575 2006 RH_{53}	17.4	X	137.40348	317.13580	29.05028	3.45000	0.2705234	0.24025698	2.5626268	20	1 19.9	21.4
402576 2006 RC_{54}	17.2	X	200.82407	91.55455	184.67260	7.24253	0.0367953	0.23681542	2.5873950	20	—	—
402577 2006 RQ_{57}	17.0	X	59.82930	325.19458	5.58785	4.56603	0.1578321	0.22379894	2.6867713	20	12 25.2	21.0
402578 2006 RX_{68}	17.2	X	120.27032	26.11012	208.49337	1.78618	0.0410770	0.21543306	2.7558853	20	10 21.1	21.0
402579 2006 RO_{85}	17.4	X	133.75184	323.52099	7.26752	4.79741	0.0026890	0.23552129	2.5968644	20	—	—
402580 2006 RA_{86}	17.9	X	48.69611	52.43557	2.20151	4.42744	0.1694145	0.23272939	2.6175916	20	—	—
402581 2006 RX_{91}	17.2	X	117.04483	328.55892	359.05344	3.01150	0.1907861	0.23351496	2.6117177	20	—	—
402582 2006 RF_{94}	17.6	X	89.37704	60.59911	330.20183	2.19797	0.2928803	0.23601426	2.5932470	20	1 24.6	20.4
402583 2006 RG_{97}	18.0	X	123.16345	96.84604	232.49760	2.02809	0.2119661	0.23463736	2.6033823	20	—	—
402584 2006 RJ_{100}	17.2	X	129.92440	20.47925	322.42214	16.51784	0.2393613	0.24032900	2.5621149	20	1 7.3	21.1
402585 2006 RE_{102}	17.3	X	162.87358	92.94649	195.07295	10.31574	0.1204880	0.23473514	2.6026592	20	—	—
402586 2006 SE_{22}	17.4	X	117.30307	20.59399	332.44042	8.40424	0.1768357	0.23841356	2.5758194	20	—	—
402587 2006 SQ_{28}	17.3	X	213.66427	256.66188	311.92970	13.17422	0.1541103	0.23567842	2.5957100	20	12 27.7	21.0
402588 2006 SY_{28}	17.5	X	98.76535	61.35994	311.13873	8.30521	0.0973775	0.24111488	2.5565446	20	—	—
402589 2006 SQ_{43}	17.7	X	141.10749	31.01283	315.40748	6.34745	0.2913509	0.24150920	2.5537611	20	1 24.8	21.7
402590 2006 SB_{52}	17.9	X	126.24905	200.56972	158.71682	3.19071	0.2349427	0.24058246	2.5603150	20	1 19.6	21.6
402591 2006 SP_{77}	16.8	X	129.28269	310.85512	21.35120	14.11308	0.2524760	0.23535068	2.5981193	20	—	—
402592 2006 SC_{91}	17.6	X	104.67312	43.56631	318.87186	0.77302	0.1764019	0.23470916	2.6028513	20	—	—
402593 2006 SN_{92}	17.3	X	158.78047	112.62930	201.42563	6.21817	0.1891006	0.23816311	2.5776249	20	—	—
402594 2006 SO_{96}	17.2	X	170.98928	205.07216	32.84924	5.79640	0.0305337	0.22162104	2.7043448	20	12 24.5	21.1
402595 2006 SV_{97}	18.0	X	115.44908	152.88675	192.19045	2.04833	0.2045587	0.23462342	2.6034854	20	—	—
402596 2006 SN_{105}	17.4	X	141.26658	315.86718	11.64780	4.35204	0.2248622	0.23858506	2.5745849	20	—	—
402597 2006 SQ_{129}	17.7	X	111.24751	4.64654	357.11411	9.04007	0.1764444	0.23909183	2.5709456	20	—	—
402598 2006 SV_{146}	17.5	X	24.62698	262.97850	193.69813	0.93664	0.0378790	0.23722336	2.5844278	20	—	—
402599 2006 SP_{150}	17.4	X	162.36670	89.62528	200.71950	2.83499	0.1219798	0.23371852	2.6102011	20	—	—
402600 2006 SV_{151}	17.3	X	140.47640	281.24347	3.06875	6.07729	0.1232133	0.22856106	2.6493208	20	—	—
402601 2006 SB_{154}	17.5	X	84.62589	52.04247	322.37275	4.94568	0.2721015	0.23259753	2.6185808	20	—	—
402602 2006 SK_{158}	17.9	X	112.48758	254.40872	112.25680	1.21621	0.1071198	0.23897123	2.5718105	20	—	—
402603 2006 SU_{160}	17.3	X	136.27571	175.79464	149.97003	3.13882	0.0978682	0.23445104	2.6047613	20	—	—
402604 2006 SG_{168}	17.4	X	106.66432	16.78311	348.88503	4.93926	0.1802842	0.23769076	2.5810387	20	—	—
402605 2006 SU_{176}	17.7	X	310.24703	123.05749	14.46809	7.60418	0.0614333	0.23047138	2.6346608	20	—	—
402606 2006 SC_{188}	17.4	X	170.65036	139.00200	143.95754	2.35515	0.1531298	0.23683163	2.5872769	20	—	—
402607 2006 SJ_{188}	17.0	X	60.16205	54.70108	17.66820	9.64350	0.1876264	0.23768426	2.5810858	20	1 15.3	19.7
402608 2006 SE_{214}	17.3	X	336.38912	158.98233	315.74021	2.06704	0.0884272	0.23192450	2.6236443	20	—	—
402609 2006 SB_{218}	17.5	X	107.57914	17.12686	4.79895	2.60907	0.2638521	0.23768441	2.5810846	20	2 1.6	20.9
402610 2006 SL_{236}	18.0	X	108.51615	283.20524	66.90256	0.82168	0.1147523	0.23725772	2.5841783	20	—	—
402611 2006 SD_{249}	17.4	X	191.96951	272.99839	347.83284	3.15340	0.0791004	0.23396329	2.6083803	20	—	—
402612 2006 SY_{259}	17.2	X	63.32376	114.60749	206.77582	5.49894	0.0775840	0.21941616	2.7224316	20	12 7.0	21.0
402613 2006 SN_{273}	16.9	X	82.41812	16.09806	27.19991	5.09414	0.2481579	0.23407526	2.6075484	20	1 24.8	19.8
402614 2006 SB_{280}	17.5	X	86.88718	272.50438	135.56069	5.74607	0.2646199	0.23718556	2.5847024	20	2 7.7	20.5
402615 2006 SC_{296}	17.2	X	342.01674	118.62576	330.54215	2.15558	0.0636290	0.22796033	2.6539732	20	—	—
402616 2006 SV_{313}	17.5	X	68.95738	248.21729	150.03599	2.07915	0.0796290	0.23394663	2.6085041	20	—	—
402617 2006 SA_{318}	18.3	X	118.25155	327.64654	43.84730	5.36541	0.2375419	0.23966259	2.5668622	20	1 28.8	22.0
402618 2006 SL_{318}	17.6	X	107.86800	208.31945	119.46836	4.02247	0.0610164	0.22902311	2.6457563	20	—	—
402619 2006 SC_{337}	17.4	X	134.27244	182.49873	133.48122	4.16639	0.2299594	0.23568699	2.5956471	20	—	—
402620 2006 SJ_{346}	17.1	X	179.94201	303.17898	324.45393	3.95798	0.0603329	0.23112227	2.6297120	20	—	—
402621 2006 SE_{363}	17.1	X	128.96512	226.86895	161.20113	5.46022	0.3311480	0.24177403	2.5518959	20	3 7.6	21.3
402622 2006 SK_{391}	17.6	X	135.31124	147.32237	154.57577	0.37525	0.0662464	0.23058325	2.6338086	20	—	—
402623 2006 SW_{398}	17.5	X	166.92460	335.39939	356.78654	10.50154	0.2058860	0.24453444	2.5326550	20	1 25.2	21.7
402624 2006 SK_{401}	17.5	X	29.24928	9.97541	57.27187	5.87501	0.1359100	0.22536616	2.6743007	20	—	—
402625 2006 TO_{17}	17.5	X	115.47130	333.79712	66.33097	2.89121	0.1835219	0.24190521	2.5509732	20	2 22.9	20.9
402626 2006 TT_{18}	17.4	X	61.57716	85.79421	315.27149	1.83258	0.1762263	0.23070526	2.6328799	20	—	—
402627 2006 TK_{32}	18.0	X	94.60411	333.25513	29.93373	1.33653	0.2046971	0.23246861	2.6195488	20	—	—
402628 2006 TC_{41}	18.6	X	133.60337	344.35878	16.89738	2.04437	0.2523496	0.24002696	2.5642638	20	2 1.4	22.4
402629 2006 TH_{43}	17.4	X	106.73712	12.69019	34.19581	3.75628	0.1708805	0.23957816	2.5674652	20	2 19.8	20.8
402630 2006 TW_{44}	17.4	X	74.37124	167.36610	214.57135	6.06160	0.2003730	0.22943177	2.6426137	20	—	—
402631 2006 TB_{50}	17.5	X	108.44060	24.10312	0.24383	4.39713	0.2536238	0.23799182	2.5788616	20	2 4.8	20.9
402632 2006 TL_{50}	17.5	X	128.43661	262.24825	118.84009	0.59843	0.1476092	0.23979969	2.5658837	20	2 7.9	21.1
402633 2006 TH_{59}	17.1	X	138.63305	347.00840	347.78656	3.38675	0.2684704	0.23727334	2.5840649	20	1 7.2	21.1
402634 2006 TD_{60}	17.1	X	350.09537	189.89696	247.08574	4.23761	0.1473606	0.22042730	2.7140997	20	—	—
402635 2006 TQ_{78}	17.4	X	8.22589	228.09922	194.86968	3.17666	0.0801897	0.22251349	2.6971089	20	—	—
402636 2006 TS_{99}	17.6	X	141.43514	307.60365	56.16059	2.31746	0.1713008	0.24229746	2.5482193	20	2 3.5	21.3
402637 2006 TC_{105}	16.9	X	68.80862	304.31814	50.17327	7.00239	0.0471721	0.22305070	2.6927766	20	—	—
402638 2006 TQ_{113}	17.4	X	83.77415	273.22008	99.87701	12.39398	0.2205533	0.23091165	2.6313108	20	—	—
402639 2006 TD_{118}	17.5	X	325.09929	302.39222	150.05241	12.16813	0.1949755	0.21781995	2.7357156	20	—	—
402640 2006 TF_{118}	16.9	X	150.99653	250.81749	102.60885	11.54839	0.1584658	0.24105175	2.5569909	20	1 30.7	20.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
402641 2006 TV_{119}	15.8	X	185.73471	250.42398	147.74337	13.37705	0.1279020	0.18105599	3.0945259	20	5 2.5	20.9
402642 2006 TR_{124}	16.5	X	287.50520	110.65856	58.98396	15.51505	0.0902384	0.22535984	2.6743507	20	—	—
402643 2006 TD_{127}	18.0	X	88.37591	48.92966	313.68230	3.04483	0.1693874	0.23035176	2.6355728	20	—	—
402644 2006 TJ_{127}	16.8	X	133.33549	18.93048	263.45239	5.35295	0.0709998	0.22214258	2.7001103	20	—	—
402645 2006 US_{6}	17.5	X	43.25754	323.25580	73.84749	4.94185	0.1865702	0.22636673	2.6664144	20	—	—
402646 2006 UN_{12}	16.5	X	339.15529	17.22416	49.76117	11.56875	0.1153367	0.21796589	2.7344943	20	12 30.9	19.8
402647 2006 UJ_{17}	18.0	X	98.00066	25.57726	324.34745	0.51048	0.1372525	0.23112984	2.6296545	20	—	—
402648 2006 UO_{24}	17.8	X	61.23210	133.25398	272.07185	1.69651	0.2117767	0.23158921	2.6261761	20	—	—
402649 2006 UR_{39}	17.6	X	146.32854	101.04201	223.10446	1.58539	0.1886390	0.23591224	2.5939946	20	—	—
402650 2006 UL_{46}	17.4	X	110.73323	243.21545	111.87751	1.47844	0.1653856	0.23211625	2.6221993	20	—	—
402651 2006 UE_{55}	17.5	X	88.87905	29.48539	326.51003	2.56793	0.2364120	0.22931811	2.6434868	20	—	—
402652 2006 UG_{71}	17.3	X	61.12013	308.19672	90.29480	3.24293	0.2095113	0.22878836	2.6475658	20	—	—
402653 2006 UU_{77}	17.7	X	27.74535	163.04065	253.74707	2.40228	0.1695000	0.22630992	2.6668606	20	—	—
402654 2006 UA_{83}	17.3	X	98.48520	55.87979	268.02800	4.27058	0.0523395	0.22409771	2.6843828	20	—	—
402655 2006 UQ_{86}	16.9	X	358.09348	20.37639	37.17754	5.45813	0.1056334	0.21873909	2.7280466	20	—	—
402656 2006 UC_{87}	17.2	X	100.41441	105.10875	254.39761	0.89923	0.1744879	0.23060739	2.6336248	20	—	—
402657 2006 UK_{94}	17.3	X	26.61463	273.21318	165.36132	3.60602	0.1284565	0.22942048	2.6427004	20	—	—
402658 2006 UR_{96}	17.4	X	50.35357	326.39112	65.73001	3.53480	0.1539516	0.22724786	2.6595175	20	—	—
402659 2006 UC_{99}	16.8	X	63.66424	276.24979	101.42542	3.93298	0.1122399	0.22655644	2.6649257	20	—	—
402660 2006 UH_{104}	17.3	X	82.19990	325.08688	72.25015	4.52746	0.1594703	0.23312268	2.6146468	20	—	—
402661 2006 US_{119}	17.1	X	340.86701	77.44522	35.98087	11.39369	0.0567090	0.22864935	2.6486388	20	—	—
402662 2006 UH_{154}	17.8	X	107.77640	261.96031	101.11214	1.92453	0.2090424	0.23652330	2.5895249	20	—	—
402663 2006 UK_{164}	17.0	X	331.56511	300.65853	167.64078	4.65608	0.0431086	0.22617837	2.6678946	20	—	—
402664 2006 UU_{171}	17.4	X	83.50914	270.37334	99.64157	4.10841	0.1107298	0.22881958	2.6473250	20	—	—
402665 2006 UZ_{177}	17.3	X	45.00524	281.18505	153.18116	4.75743	0.2168771	0.23210096	2.6223144	20	—	—
402666 2006 UL_{192}	17.4	X	104.58523	73.21960	301.47209	5.72236	0.2099971	0.23568709	2.5956464	20	1 11.6	20.7
402667 2006 UB_{193}	17.4	X	65.70325	65.72641	357.11360	11.16733	0.3062153	0.23329160	2.6133845	20	2 3.1	19.8
402668 2006 UJ_{199}	17.2	X	120.89136	287.78603	51.55381	6.36140	0.2833661	0.23355915	2.6113883	20	—	—
402669 2006 UM_{212}	17.1	X	80.92715	330.85005	13.80566	5.87240	0.0542278	0.22138284	2.7062842	20	—	—
402670 2006 UX_{221}	17.7	X	121.29688	288.11546	75.94015	5.72351	0.2211102	0.23998902	2.5645341	20	1 19.8	21.3
402671 2006 UN_{238}	16.6	X	108.02749	64.59516	327.45175	16.64687	0.2157425	0.23990112	2.5651604	20	2 8.7	20.0
402672 2006 UK_{241}	16.6	X	96.40340	98.69477	273.61582	10.56929	0.1380635	0.23176326	2.6248611	20	—	—
402673 2006 UQ_{265}	16.9	X	78.77704	21.97349	7.02148	8.49163	0.1372122	0.23187841	2.6239920	20	—	—
402674 2006 UJ_{273}	16.8	X	311.87658	204.06502	251.76115	7.96110	0.1316059	0.21499135	2.7596588	20	12 22.0	19.8
402675 2006 UV_{279}	17.6	X	305.24928	357.99120	89.70016	2.07923	0.0359306	0.21472801	2.7619146	20	12 4.1	21.2
402676 2006 UN_{282}	17.7	X	132.49617	278.44300	75.08611	2.02716	0.1885444	0.23646101	2.5899797	20	1 14.8	21.3
402677 2006 UV_{285}	17.3	X	104.81353	313.74815	43.57453	3.44748	0.2083045	0.23226447	2.6210835	20	—	—
402678 2006 UF_{286}	17.4	X	112.57101	279.80439	55.71832	4.24050	0.1022385	0.22862239	2.6488470	20	—	—
402679 2006 UH_{335}	17.2	X	113.43657	178.87951	176.12658	2.77465	0.1561344	0.23222241	2.6214000	20	—	—
402680 2006 UE_{336}	17.4	X	166.13903	250.34603	27.03170	2.34053	0.1626406	0.22968162	2.6406969	20	—	—
402681 2006 UM_{336}	16.3	X	328.21692	275.76397	131.91932	13.01917	0.1532242	0.21377212	2.7701418	20	11 20.4	19.5
402682 2006 UD_{338}	17.1	X	143.71801	255.86685	70.87820	12.95348	0.2599710	0.23493138	2.6012097	20	—	—
402683 2006 UF_{346}	16.5	X	279.34404	232.50099	246.29224	8.75299	0.1857169	0.21323257	2.7748128	20	11 19.5	19.5
402684 2006 UH_{361}	17.6	X	77.33068	99.75259	301.71499	5.38534	0.2879458	0.23284556	2.6167209	20	1 18.9	20.2
402685 2006 VH_{2}	17.4	X	128.38788	304.45627	60.50896	6.43376	0.3150892	0.24007420	2.5639274	20	2 9.3	21.5
402686 2006 VO_{10}	17.6	X	109.60752	268.48428	87.95538	3.06760	0.2237346	0.23310673	2.6147660	20	—	—
402687 2006 VO_{11}	17.4	X	131.35305	73.70282	235.07418	2.76300	0.1674783	0.22795406	2.6540219	20	—	—
402688 2006 VW_{22}	17.4	X	107.42084	152.43252	208.55860	1.25779	0.0977305	0.23074485	2.6325788	20	—	—
402689 2006 VA_{27}	17.4	X	43.75052	353.29039	56.78423	6.20487	0.0948471	0.22574083	2.6713408	20	—	—
402690 2006 VB_{37}	17.8	X	103.58889	38.52712	358.98709	5.06121	0.3066710	0.23827365	2.5768276	20	2 22.9	21.3
402691 2006 VS_{40}	17.9	X	123.20381	261.76944	71.67021	2.80605	0.2142744	0.23166980	2.6255670	20	—	—
402692 2006 VN_{46}	16.7	X	314.55292	35.81454	46.93125	6.30145	0.0607177	0.21454503	2.7634848	20	12 9.5	20.1
402693 2006 VQ_{48}	17.0	X	127.99287	203.99731	173.59668	13.01400	0.2874330	0.24080244	2.5587555	20	2 17.2	21.1
402694 2006 VG_{51}	17.4	X	68.58561	152.46669	250.51240	1.52853	0.2062830	0.22872148	2.6480819	20	—	—
402695 2006 VU_{52}	17.5	X	60.09703	25.97290	350.82397	4.59381	0.1572494	0.22465138	2.6799704	20	—	—
402696 2006 VU_{64}	17.3	X	21.55623	358.14346	67.67516	4.85614	0.2073625	0.22340754	2.6899085	20	—	—
402697 2006 VB_{65}	18.2	X	268.54444	181.31497	226.82163	1.98624	0.1740449	0.27060963	2.3672305	20	8 6.8	21.1
402698 2006 VC_{65}	17.5	X	119.48865	198.71232	156.15183	1.14575	0.2312287	0.23342589	2.6123821	20	1 7.8	21.1
402699 2006 VD_{68}	16.9	X	150.89584	329.07363	65.69661	2.32426	0.2114479	0.24516442	2.5283145	20	3 25.1	20.9
402700 2006 VY_{81}	17.4	X	76.92192	358.14570	17.74805	3.94174	0.2169806	0.22909719	2.6451859	20	—	—
402701 2006 VK_{87}	17.4	X	88.21236	35.48737	341.98896	3.89649	0.2204901	0.23161699	2.6259660	20	—	—
402702 2006 VB_{90}	17.2	X	81.51196	36.78762	38.11414	4.22052	0.1915388	0.23689261	2.5868329	20	2 25.8	20.2
402703 2006 VO_{98}	17.5	X	126.90170	28.29770	352.39472	1.84321	0.2536601	0.24106289	2.5569122	20	2 18.4	21.4
402704 2006 VH_{104}	17.3	X	117.85449	261.13326	120.51516	4.56323	0.2412173	0.23995305	2.5647903	20	2 9.2	21.0
402705 2006 VD_{110}	17.2	X	93.85761	49.26937	332.06829	4.24299	0.1883596	0.23195816	2.6233905	20	1 2.8	20.2
402706 2006 VT_{112}	16.3	X	98.53189	96.13402	266.67887	11.25637	0.2022712	0.22960141	2.6413119	20	—	—
402707 2006 VG_{121}	16.6	X	78.02969	140.02599	246.41771	13.66252	0.0961043	0.23052980	2.6342157	20	—	—
402708 2006 VG_{128}	17.5	X	80.80694	77.39744	276.61208	5.10294	0.1618551	0.22528572	2.6749373	20	—	—
402709 2006 VW_{129}	17.0	X	319.81215	219.98124	224.48211	2.24967	0.0483755	0.21533797	2.7566966	20	12 20.1	20.4
402710 2006 VF_{147}	17.0	X	99.10040	22.13379	279.18068	3.87741	0.0321481	0.21415272	2.7668588	20	12 17.3	20.7
402711 2006 VG_{149}	17.3	X	103.18699	245.74981	139.57258	17.32204	0.3320287	0.23756693	2.5819355	20	2 9.6	20.9
402712 2006 VO_{150}	17.8	X	74.29233	38.70030	345.43610	1.86903	0.2246810	0.23022305	2.6365551	20	—	—
402713 2006 VO_{156}	17.4	X	4.30840	314.58951	122.24928	2.91748	0.2049095	0.22592596	2.6698813	20	—	—
402714 2006 WH_{7}	16.5	X	351.74060	331.62294	92.46320	6.56559	0.1204275	0.21769068	2.7367985	20	—	—
402715 2006 WF_{12}	17.1	X	61.43829	295.87778	112.59206	3.24077	0.1923221	0.22867079	2.6484732	20	—	—
402716 2006 WW_{17}	17.3	X	327.54047	201.59422	254.74998	5.18142	0.0437285	0.22113730	2.7082872	20	—	—
402717 2006 WQ_{20}	17.6	X	354.75596	313.00795	127.12125	3.70011	0.1394906	0.21980378	2.7192300	20	—	—
402718 2006 WT_{33}	17.4	X	39.81693	256.50121	152.14978	2.54504	0.1954258	0.22533794	2.6745240	20	—	—
402719 2006 WO_{36}	17.4	X	68.13153	163.70041	192.84128	5.78871	0.0418277	0.22045552	2.7138681	20	—	—
402720 2006 WK_{42}	16.7	X	124.94601	156.88596	203.18962	6.85513	0.2447771	0.23568050	2.5956947	20	1 19.9	20.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
402721 2006 WP_{48}	16.9	X	307.35639	197.65715	265.58588	5.10466	0.0408551	0.21439100	2.7648082	20	12 26.4	20.5
402722 2006 WY_{55}	16.0	X	189.44088	213.22966	298.34225	11.71430	0.1135307	0.19097097	2.9864677	20	9 13.2	20.9
402723 2006 WR_{56}	17.3	X	97.03444	292.89202	64.77545	4.18094	0.2801264	0.22855173	2.6493929	20	—	—
402724 2006 WR_{67}	16.2	X	119.96969	102.56750	251.44928	11.66059	0.2143291	0.23141972	2.6274582	20	1 4.0	19.9
402725 2006 WN_{70}	16.9	X	281.50925	79.56147	35.57141	5.51707	0.0351746	0.21411393	2.7671929	20	12 5.9	20.6
402726 2006 WR_{86}	17.1	X	74.81784	156.16849	245.81102	6.30750	0.2724504	0.23087375	2.6315988	20	1 11.5	19.8
402727 2006 WS_{110}	17.1	X	346.80640	314.12120	103.30099	2.78892	0.0631972	0.21367862	2.7709498	20	12 24.2	20.6
402728 2006 WO_{123}	15.8	X	188.86205	225.25806	291.69345	11.11075	0.0585887	0.19150911	2.9808704	20	9 22.4	20.4
402729 2006 WE_{125}	16.8	X	324.14792	351.88449	88.30653	5.68345	0.0471280	0.21354080	2.7721420	20	12 20.2	20.2
402730 2006 WE_{133}	17.9	X	94.91513	114.61532	245.28225	2.73213	0.1818424	0.22920475	2.6443583	20	—	—
402731 2006 WS_{137}	17.0	X	123.65684	237.85087	69.08680	15.65886	0.1361699	0.22265546	2.6959623	20	—	—
402732 2006 WY_{154}	17.2	X	287.11516	40.89656	60.09477	5.37914	0.0248988	0.21208273	2.7848332	20	11 26.5	21.0
402733 2006 WJ_{158}	17.2	X	145.54120	191.21849	90.88746	5.81894	0.0373921	0.21861308	2.7290948	20	—	—
402734 2006 WR_{158}	17.4	X	65.79042	8.41795	33.46668	5.76669	0.2510183	0.22925358	2.6439828	20	—	—
402735 2006 WV_{163}	16.9	X	293.26673	60.87777	75.07861	9.87930	0.0996101	0.21839224	2.7309343	20	—	—
402736 2006 WN_{169}	17.0	X	94.72079	187.53082	119.94983	0.45564	0.0561180	0.21464502	2.7626265	20	12 21.9	20.9
402737 2006 WX_{169}	16.2	X	128.82874	24.89874	246.37464	6.18245	0.1672339	0.21405695	2.7676839	20	12 16.9	20.9
402738 2006 WH_{177}	16.6	X	108.62392	294.72798	115.58000	7.18548	0.1868012	0.23933607	2.5691962	20	2 29.3	20.1
402739 2006 WH_{201}	16.8	X	72.37836	265.94889	98.76390	12.33164	0.2113775	0.22255424	2.6967797	20	—	—
402740 2006 WX_{201}	16.0	X	181.70080	66.79803	115.38982	11.50797	0.0991057	0.19272673	2.9683020	20	10 24.6	20.7
402741 2006 XL	15.9	X	78.26819	135.65054	269.10469	12.32508	0.2394703	0.22941663	2.6427300	20	1 15.5	18.7
402742 2006 XG_{6}	16.9	X	101.42620	218.11423	174.56217	6.24683	0.3553526	0.23606758	2.5928565	20	2 19.0	20.6
402743 2006 XQ_{13}	17.7	X	66.88074	120.01158	260.78476	5.62117	0.2214598	0.22529561	2.6748590	20	—	—
402744 2006 XD_{16}	17.2	X	87.17822	257.20406	155.59919	6.14740	0.2864601	0.23545585	2.5973455	20	2 17.9	20.3
402745 2006 XQ_{26}	16.9	X	28.35554	331.71544	90.54647	12.96910	0.1818806	0.22334242	2.6904313	20	—	—
402746 2006 XA_{32}	17.3	X	153.91404	154.04576	87.47994	4.92377	0.0481512	0.21181650	2.7871661	20	12 6.4	21.4
402747 2006 XF_{32}	17.1	X	35.22978	294.95668	71.68258	7.50316	0.0702852	0.21258615	2.7804349	20	12 25.8	20.9
402748 2006 XA_{38}	17.0	X	339.58243	155.67976	286.42112	5.49821	0.2459366	0.21355784	2.7719945	20	—	—
402749 2006 XZ_{46}	16.3	X	97.88069	283.81501	73.63758	16.51911	0.2473534	0.22827399	2.6515415	20	—	—
402750 2006 XL_{73}	16.7	X	73.24088	267.30621	90.02137	3.91483	0.1097495	0.21523223	2.7575994	20	—	—
402751 2006 YW_{11}	17.5	X	345.41238	146.76160	289.25930	6.40047	0.1947576	0.21366104	2.7711018	20	—	—
402752 2006 YM_{12}	16.2	X	113.12498	254.22548	294.79948	14.46767	0.2921215	0.18015144	3.1048757	20	8 26.9	21.8
402753 2006 YQ_{14}	17.0	X	92.60885	302.86325	79.04185	3.60814	0.2338978	0.23067327	2.6331233	20	1 8.9	20.1
402754 2006 YW_{18}	15.9	X	54.16678	356.06997	326.80125	11.13967	0.0500381	0.19777559	2.9175675	20	11 15.3	20.2
402755 2006 YK_{21}	17.8	X	11.01244	107.36388	315.06673	1.01488	0.1613701	0.21766051	2.7370514	20	—	—
402756 2006 YC_{34}	17.4	X	77.93655	328.53203	81.32366	9.36528	0.3954264	0.23122336	2.6289454	20	2 23.9	20.5
402757 2006 YV_{48}	16.6	X	275.48358	352.98276	111.40955	18.52479	0.0598034	0.20249799	2.8720295	20	11 16.4	20.8
402758 2007 AT_{8}	16.5	X	324.50757	131.98330	288.02441	9.44253	0.0826613	0.20335683	2.8639375	20	11 20.8	20.1
402759 2007 AK_{14}	16.9	X	34.58767	289.27298	124.39392	13.79146	0.1936647	0.21869333	2.7284271	20	—	—
402760 2007 AN_{17}	16.9	X	359.62436	135.42893	293.89512	6.66901	0.2060557	0.21492308	2.7602431	20	—	—
402761 2007 AL_{31}	16.7	X	69.37806	255.38880	159.62595	16.70750	0.1776432	0.22358648	2.6884731	20	1 7.5	19.9
402762 2007 BF_{14}	16.1	X	354.65706	206.27796	117.81921	11.32769	0.1158473	0.18722619	3.0261584	20	9 5.5	19.8
402763 2007 BO_{25}	16.9	X	356.42599	136.56363	312.25496	8.32656	0.1288514	0.21499392	2.7596368	20	—	—
402764 2007 BW_{29}	15.8	X	144.57973	200.96211	328.50437	16.70227	0.1896680	0.18288694	3.0738376	20	8 28.1	21.0
402765 2007 BA_{33}	16.5	X	22.25513	70.07636	298.13385	4.99746	0.0794819	0.20466663	2.8517056	20	12 10.1	20.2
402766 2007 BL_{41}	16.4	X	270.37322	273.27793	129.45104	11.08625	0.1005443	0.18824868	3.0151905	20	8 6.9	20.6
402767 2007 BF_{47}	16.6	X	77.55974	144.10888	124.27172	10.67100	0.0310277	0.18878695	3.0094565	20	10 11.6	21.0
402768 2007 BS_{49}	16.9	X	313.03866	123.20421	347.69191	3.37378	0.0575262	0.20898509	2.8122841	20	—	—
402769 2007 BA_{52}	15.7	X	229.38913	296.46926	119.98786	19.29850	0.0830345	0.18033920	3.1027203	20	7 7.3	20.4
402770 2007 BS_{76}	16.7	X	337.74308	152.64857	304.41007	4.56764	0.0483418	0.21245476	2.7815811	20	—	—
402771 2007 BN_{77}	16.7	X	345.79691	65.71741	328.50790	8.50265	0.0652587	0.19926764	2.9029855	20	11 16.5	20.6
402772 2007 BL_{78}	16.3	X	81.00187	264.68763	318.15658	14.55462	0.2067193	0.17869801	3.1216885	20	9 1.9	21.1
402773 2007 BO_{78}	16.7	X	318.46905	134.44022	317.42826	11.51202	0.0728579	0.20606720	2.8387696	20	12 26.2	20.4
402774 2007 BK_{81}	16.5	X	83.36153	79.27228	142.06083	17.38441	0.2101469	0.17706946	3.1407999	20	9 8.8	21.3
402775 2007 CH_{3}	16.8	X	335.69011	274.35109	149.39646	9.68594	0.0449279	0.20270307	2.8700921	20	12 13.4	20.7
402776 2007 CR_{4}	18.2	X	32.01558	358.19484	151.23244	5.74993	0.0848879	0.30458201	2.1877611	20	2 20.6	20.2
402777 2007 CB_{15}	16.1	X	157.08562	249.36168	320.15282	10.96582	0.1111936	0.19179274	2.9779309	20	10 22.3	21.0
402778 2007 CD_{21}	16.8	X	262.17685	155.23143	312.15285	9.08322	0.0461899	0.19696522	2.9255646	20	10 22.7	21.0
402779 2007 CB_{30}	16.6	X	239.41674	158.33927	313.67000	9.65504	0.0391490	0.19346948	2.9607000	20	9 29.6	20.9
402780 2007 CR_{31}	16.2	X	28.87050	2.74756	315.41349	8.47139	0.0856746	0.19158642	2.9800685	20	10 10.6	20.2
402781 2007 CA_{35}	17.4	X	50.28633	92.94326	308.64733	27.26354	0.3373716	0.22246882	2.6974699	20	—	—
402782 2007 CH_{37}	16.3	X	49.86267	336.65734	323.37690	9.91884	0.1251098	0.19092923	2.9869029	20	10 20.9	20.6
402783 2007 CS_{47}	16.5	X	150.59167	29.26983	142.50831	9.87308	0.1776211	0.18546743	3.0452593	20	9 7.7	21.6
402784 2007 CD_{50}	17.1	X	6.40166	319.58139	124.25192	11.56916	0.3064839	0.21595114	2.7514759	20	—	—
402785 2007 DZ_{2}	15.2	X	101.54648	251.50639	338.34666	25.61791	0.1977746	0.18198092	3.0840316	20	9 23.8	20.4
402786 2007 DK_{5}	16.8	X	125.90461	82.39984	114.26280	11.65840	0.1393152	0.18625795	3.0366367	20	9 16.9	21.7
402787 2007 DA_{18}	17.1	X	125.31329	155.21175	50.77498	0.68479	0.1753928	0.18217780	3.0818092	20	9 25.0	22.1
402788 2007 DO_{24}	17.1	X	280.73591	112.58063	329.46942	9.03580	0.0298563	0.19187875	2.9770409	20	10 16.4	21.4
402789 2007 DW_{29}	15.9	X	62.66297	99.28478	158.75050	15.77178	0.1997890	0.17616365	3.1515571	20	9 30.1	20.5
402790 2007 DE_{32}	16.1	X	79.22142	266.36082	348.25326	12.63389	0.1084471	0.18081014	3.0973303	20	9 28.1	20.6
402791 2007 DK_{32}	16.5	X	79.71617	268.00089	3.71916	5.33854	0.1108577	0.18429323	3.0581806	20	10 21.9	21.0
402792 2007 DV_{34}	16.1	X	43.42788	111.92981	161.50234	10.83736	0.0618908	0.17763691	3.1341077	20	9 2.2	20.3
402793 2007 DO_{40}	15.7	X	35.02885	302.81721	345.52795	14.75956	0.1917740	0.17771624	3.1331749	20	9 24.9	19.8
402794 2007 DL_{50}	16.4	X	193.92651	339.02379	126.83527	11.12425	0.0734084	0.18487318	3.0517815	20	7 30.8	20.8
402795 2007 DO_{51}	15.8	X	56.82349	248.98169	353.41700	9.10730	0.0560426	0.17414522	3.1758623	20	8 12.9	20.2
402796 2007 DQ_{51}	15.4	X	101.58610	266.59803	346.71779	25.45515	0.2012619	0.18262321	3.0767962	20	10 18.9	20.8
402797 2007 DN_{54}	16.7	X	26.83164	310.82180	320.42851	3.64832	0.1671959	0.17375447	3.1806220	20	8 19.4	20.3
402798 2007 DJ_{61}	15.7	X	122.01184	82.41048	86.13962	16.56682	0.1572114	0.17532534	3.1615952	20	8 9.3	20.9
402799 2007 DZ_{61}	16.2	X	305.11881	279.10390	129.33888	12.56932	0.0166460	0.19106932	2.9854427	20	10 16.6	20.5
402800 2007 DY_{62}	16.9	X	106.43454	123.52038	72.81760	3.94384	0.1997442	0.17752077	3.1354745	20	8 30.5	21.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
402801 2007 DD_{68}	18.2	X	344.40919	267.72819	28.56581	2.65326	0.1818997	0.31803266	2.1256328	20	7 19.6	19.2
402802 2007 DN_{68}	16.8	X	346.49857	50.58296	347.99366	10.14869	0.1427483	0.19751648	2.9201186	20	11 28.5	20.3
402803 2007 DD_{72}	16.4	X	71.83570	247.98389	355.88095	10.69689	0.0636417	0.17756560	3.1349467	20	9 3.8	20.8
402804 2007 DJ_{72}	16.9	X	4.88475	356.81501	33.87273	2.53055	0.1054418	0.19698778	2.9253412	20	12 15.6	20.6
402805 2007 DS_{73}	17.1	X	98.14799	135.15333	66.79439	0.36280	0.1209114	0.17492848	3.1663752	20	8 19.1	21.6
402806 2007 DS_{76}	16.3	X	210.44116	154.44253	347.98285	9.65988	0.1990624	0.19139330	2.9820727	20	9 20.9	21.1
402807 2007 DQ_{84}	17.7	X	357.04871	111.55186	321.35976	1.73190	0.1731548	0.21060388	2.7978545	20	—	—
402808 2007 DD_{89}	15.7	X	57.94618	112.54667	151.33419	16.59893	0.2127094	0.17706530	3.1408491	20	10 4.9	20.3
402809 2007 DG_{91}	16.9	X	60.31025	70.06994	336.54341	12.92889	0.2098467	0.21798045	2.7343726	20	—	—
402810 2007 DO_{98}	18.6	X	346.03856	35.29839	148.93938	5.92218	0.0905662	0.29949607	2.2124593	20	1 23.3	20.7
402811 2007 DE_{109}	16.0	X	222.36028	135.49973	352.67357	9.62311	0.0346359	0.18600774	3.0393592	20	10 1.5	20.3
402812 2007 DP_{114}	16.7	X	115.46910	82.18465	136.80611	3.00404	0.1615307	0.17756093	3.1350017	20	10 1.1	21.6
402813 2007 DL_{117}	16.4	X	197.40576	330.69067	155.48088	2.39506	0.1290130	0.17987468	3.1080597	20	8 24.9	21.3
402814 2007 EW_{1}	15.4	X	36.54424	331.08833	346.58514	17.33175	0.1491420	0.18538013	3.0462153	20	10 24.8	19.8
402815 2007 EL_{33}	16.5	X	282.09721	113.82460	332.65016	8.62648	0.0550715	0.19328649	2.9625684	20	10 21.3	20.6
402816 2007 EJ_{47}	18.1	X	265.49857	60.94948	191.11898	7.58020	0.1309727	0.28951166	2.2630389	20	1 6.6	21.5
402817 2007 EZ_{62}	16.5	X	255.32551	118.21247	3.70287	10.57961	0.0794648	0.19335084	2.9619110	20	10 27.9	20.8
402818 2007 EJ_{63}	16.9	X	161.40649	55.49926	130.35120	2.02156	0.1117866	0.18542410	3.0457337	20	10 3.4	21.7
402819 2007 EJ_{72}	16.1	X	126.37957	55.81544	175.37943	11.34218	0.0756316	0.18409063	3.0604239	20	10 22.9	20.7
402820 2007 EX_{98}	16.5	X	218.89779	133.41729	16.12506	5.66452	0.0678838	0.19010588	2.9955209	20	10 21.6	20.8
402821 2007 EK_{115}	15.7	X	140.53715	147.22515	40.82458	10.46781	0.0596018	0.17643535	3.1483208	20	9 16.7	20.5
402822 2007 EL_{133}	18.5	X	326.33129	264.15736	11.76066	2.26721	0.2079877	0.30680869	2.1771630	20	4 18.0	20.2
402823 2007 EF_{146}	16.3	X	19.07982	311.07787	22.75634	6.60540	0.0666250	0.18541222	3.0458638	20	10 17.6	20.4
402824 2007 EL_{156}	17.9	X	77.29943	192.21248	323.65377	5.21438	0.1838709	0.31016379	2.1614341	20	6 6.4	20.3
402825 2007 EV_{160}	15.3	X	212.27884	143.90736	339.61719	9.71502	0.0982986	0.18297853	3.0728117	20	9 7.9	20.0
402826 2007 EJ_{186}	16.7	X	109.57351	76.29504	125.88575	5.89543	0.0966514	0.17790079	3.1310076	20	8 30.7	21.3
402827 2007 EW_{215}	16.0	X	161.95107	31.59341	150.61483	12.04384	0.1508577	0.18320884	3.0702360	20	9 30.9	21.1
402828 2007 EJ_{220}	16.0	X	259.19566	63.35884	42.24683	9.49724	0.1036374	0.18507634	3.0495478	20	10 13.0	20.2
402829 2007 FP_{10}	16.8	X	142.65865	238.48162	311.42680	3.59582	0.1215920	0.17731797	3.1378647	20	9 17.3	21.9
402830 2007 FJ_{21}	16.4	X	168.12748	190.07414	342.82960	9.18950	0.0597285	0.18681462	3.0306013	20	9 22.8	20.9
402831 2007 FM_{30}	16.1	X	282.07479	72.64056	11.94713	4.20150	0.1787200	0.19040830	2.9923482	20	10 5.3	19.9
402832 2007 FJ_{39}	15.8	X	78.07260	314.97637	348.88266	9.30266	0.0834262	0.19074509	2.9888249	20	11 24.4	20.3
402833 2007 FB_{45}	16.3	X	53.24429	254.95299	4.67022	8.91241	0.1072466	0.17429382	3.1740570	20	9 6.1	20.6
402834 2007 GQ_{11}	18.0	X	320.03013	155.83067	103.77208	5.73097	0.1596098	0.30312694	2.1947566	20	3 24.7	20.2
402835 2007 GX_{27}	16.1	X	123.62578	62.58266	133.74553	14.52630	0.2342570	0.17535610	3.1612254	20	9 17.9	21.6
402836 2007 GW_{31}	15.5	X	128.18904	174.77092	26.08137	16.67216	0.0644835	0.17732349	3.1377996	20	9 20.5	20.3
402837 2007 HM_{12}	17.9	X	267.38356	271.58336	342.44533	1.07461	0.1889064	0.28748987	2.2736364	20	1 8.0	21.4
402838 2007 HY_{24}	18.7	X	49.99235	71.06977	119.92545	3.67842	0.0908266	0.30542807	2.1837190	20	5 31.5	20.7
402839 2007 HR_{72}	16.5	X	269.92805	272.02510	216.46991	3.09802	0.1371771	0.19303944	2.9650955	20	11 19.8	20.2
402840 2007 HV_{95}	16.0	X	84.60532	141.24984	203.35547	12.70971	0.1393515	0.19250570	2.9705736	20	—	—
402841 2007 LE_{1}	16.1	X	31.16306	99.27024	123.66980	16.30733	0.1426334	0.15420835	3.4440078	20	6 20.3	20.5
402842 2007 MX_{6}	16.0	X	87.45387	91.92427	161.34605	14.96902	0.0687900	0.17347305	3.1840610	20	10 5.3	20.7
402843 2007 PX	17.7	X	257.36261	326.57108	9.11188	0.62537	0.2576216	0.28857266	2.2679454	20	4 4.5	21.1
402844 2007 PY_{21}	17.5	X	213.75768	306.82834	23.79708	2.46004	0.2539452	0.27529504	2.3402942	20	2 25.4	21.5
402845 2007 PE_{46}	18.1	X	235.77418	289.84160	35.58833	0.66866	0.2124110	0.28092562	2.3089178	20	3 7.6	21.8
402846 2007 PU_{50}	17.4	X	262.41184	329.77234	346.36646	5.37470	0.1802586	0.28609190	2.2810370	20	3 21.9	20.8
402847 2007 QQ_{7}	17.1	X	198.28907	9.06858	334.13330	6.61336	0.1294716	0.27458217	2.3443430	20	2 26.5	20.6
402848 2007 QU_{7}	17.7	X	186.96647	215.67842	155.25674	3.34334	0.2545767	0.27571261	2.3379307	20	3 24.9	21.6
402849 2007 QT_{14}	18.4	X	127.59959	298.17493	119.78782	2.72420	0.1865362	0.27060765	2.3672421	20	3 28.0	21.7
402850 2007 QV_{16}	17.7	X	85.81199	248.36107	153.12411	11.38007	0.2569646	0.26010834	2.4305237	20	1 20.9	20.3
402851 2007 RE_{11}	18.1	X	184.09271	16.99177	7.97467	4.65581	0.2379843	0.27599356	2.3363438	20	4 7.5	22.1
402852 2007 RE_{12}	17.5	X	212.10701	45.83319	330.04189	6.62477	0.1190365	0.28184453	2.3038965	20	4 19.7	21.1
402853 2007 RE_{18}	17.7	X	201.59814	241.73440	80.18426	7.77470	0.1294035	0.27200314	2.3591385	20	2 5.7	21.3
402854 2007 RD_{36}	18.1	X	224.82521	109.85883	217.82423	1.68843	0.2337277	0.27711573	2.3300323	20	2 28.9	22.1
402855 2007 RY_{46}	17.0	X	177.03406	81.80540	336.75892	7.82282	0.0814565	0.28238008	2.3009826	20	5 8.8	20.4
402856 2007 RM_{83}	17.9	X	193.38881	175.86754	175.10242	2.18913	0.2129747	0.27448190	2.3449139	20	3 4.0	21.7
402857 2007 RT_{91}	17.9	X	237.58480	318.34638	352.54310	3.79605	0.1693240	0.27599167	2.3363545	20	2 23.1	21.4
402858 2007 RW_{91}	17.6	X	142.90173	48.82546	355.34542	1.24272	0.1866430	0.27000474	2.3707647	20	3 24.6	21.0
402859 2007 RQ_{93}	17.3	X	171.89393	310.69024	14.53442	9.43978	0.0606151	0.26153440	2.4216805	20	1 5.9	20.8
402860 2007 RP_{94}	18.0	X	207.94260	223.53617	162.78489	5.00785	0.1682229	0.28059255	2.3107446	20	5 2.2	21.5
402861 2007 RP_{96}	14.8	X	202.38510	11.94653	37.43335	8.19367	0.2509001	0.12555676	3.9498080	20	5 22.6	21.4
402862 2007 RR_{105}	15.1	X	200.18553	4.44775	28.92482	3.15580	0.2648685	0.12405384	3.9816453	20	5 3.5	21.7
402863 2007 RW_{126}	17.9	X	117.57748	238.05202	185.51031	1.98039	0.2344355	0.26640862	2.3920515	20	3 29.2	21.3
402864 2007 RM_{136}	18.2	X	128.52395	55.49950	9.24018	2.38558	0.3310435	0.26895841	2.3769094	20	4 18.8	22.2
402865 2007 RN_{145}	17.0	X	145.57783	213.53861	202.01166	5.58087	0.1776392	0.27111288	2.3643002	20	4 10.1	20.6
402866 2007 RF_{149}	17.9	X	236.06309	20.69145	342.02057	4.28145	0.1709413	0.28518162	2.2858884	20	4 25.1	21.3
402867 2007 RT_{149}	17.8	X	184.69187	273.88448	102.61513	7.60893	0.3517613	0.27405043	2.3473746	20	4 3.6	22.3
402868 2007 RV_{181}	18.0	X	100.53494	35.67152	6.98421	4.93582	0.1199019	0.26002484	2.4310440	20	1 25.7	20.9
402869 2007 RY_{194}	14.8	X	188.96163	56.30080	346.42056	4.56420	0.1358331	0.12463183	3.9693257	20	5 6.3	21.0
402870 2007 RM_{204}	17.4	X	260.01979	26.02965	264.03633	3.56756	0.1824778	0.27673005	2.3321967	20	2 15.1	20.9
402871 2007 RF_{205}	17.5	X	35.84290	123.00003	279.81325	3.14808	0.1171099	0.24643026	2.5196489	20	—	—
402872 2007 RA_{206}	18.5	X	222.17457	165.33689	168.81220	5.55930	0.2668308	0.27878889	2.3207004	20	3 5.3	22.5
402873 2007 RS_{212}	17.6	X	185.50422	314.69000	42.28859	3.07675	0.2200239	0.27244436	2.3565907	20	3 6.9	21.5
402874 2007 RB_{223}	17.6	X	141.38219	233.45161	179.90091	2.27556	0.2067673	0.26969315	2.3725904	20	4 6.1	21.2
402875 2007 RQ_{223}	17.9	X	161.36590	76.72525	326.37132	0.45906	0.1785432	0.27109764	2.3643888	20	4 9.2	21.6
402876 2007 RN_{229}	18.0	X	153.11806	17.40174	6.50956	2.49121	0.2158832	0.27095148	2.3652390	20	3 11.5	21.8
402877 2007 RS_{239}	17.9	X	185.29949	265.69770	115.07311	6.22573	0.2596196	0.27596363	2.3365127	20	4 7.1	22.0
402878 2007 RN_{248}	17.5	X	301.82590	69.52595	159.07266	5.57375	0.1257554	0.27215891	2.3582383	20	1 20.9	20.7
402879 2007 RV_{259}	17.8	X	79.86322	20.82863	61.93381	4.26106	0.2021195	0.26198677	2.4188920	20	3 3.5	20.3
402880 2007 RM_{261}	17.7	X	152.39426	319.10444	54.86220	5.75483	0.0991134	0.26678382	2.3898083	20	2 19.6	21.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
402881 2007 RV_{268}	17.7	X	258.88478	148.65395	138.15218	4.71633	0.2231951	0.27727365	2.3291475	20	2 8.4	21.4
402882 2007 RA_{297}	17.0	X	186.74736	233.97224	216.35432	6.77337	0.1896863	0.20846922	2.8169215	20	6 30.5	21.7
402883 2007 RC_{299}	17.1	X	107.46215	286.21055	164.01284	6.68077	0.1350442	0.27098001	2.3650730	20	4 10.0	20.2
402884 2007 RE_{302}	17.2	X	226.09871	233.00937	38.15490	7.30631	0.0745277	0.25983896	2.4322033	20	—	—
402885 2007 RQ_{312}	17.8	X	127.41091	253.31984	154.21755	2.83447	0.1851252	0.26689558	2.3891411	20	3 13.5	21.0
402886 2007 RD_{320}	18.1	X	210.94250	94.75874	225.61107	1.26394	0.2047968	0.27290623	2.3539311	20	2 9.9	22.1
402887 2007 RW_{320}	17.4	X	166.38376	267.29336	105.25039	3.26368	0.1982105	0.27060639	2.3672494	20	3 9.1	21.2
402888 2007 RT_{322}	18.0	X	236.70771	146.79987	199.83423	5.76462	0.1347348	0.28225590	2.3016575	20	4 9.2	21.4
402889 2007 RJ_{324}	17.8	X	230.33496	234.14646	49.64679	4.40623	0.2467011	0.26702557	2.3883656	20	1 13.8	21.9
402890 2007 SR_{2}	18.2	X	194.52352	99.70576	282.67199	0.89246	0.1980712	0.27912161	2.3188558	20	4 12.4	21.8
402891 2007 SF_{3}	17.7	X	225.00233	333.39083	357.34787	4.79328	0.2459943	0.27776645	2.3263918	20	3 4.7	21.5
402892 2007 SG_{3}	17.6	X	262.60518	131.26804	184.15776	5.99548	0.1676013	0.28330348	2.2959800	20	3 23.6	20.7
402893 2007 SQ_{9}	18.0	X	228.53373	221.53374	122.65480	3.61503	0.1973173	0.27869665	2.3212124	20	3 27.1	21.7
402894 2007 SC_{19}	17.2	X	101.62318	313.36896	103.02106	7.35299	0.1186909	0.26061643	2.4273637	20	2 14.9	20.1
402895 2007 TD_{5}	17.5	X	258.19045	167.72823	197.09331	9.52323	0.1881576	0.28799077	2.2709993	20	5 23.3	20.6
402896 2007 TC_{10}	17.7	X	174.90157	324.72696	45.06250	2.34876	0.1992446	0.27079921	2.3661256	20	3 12.8	21.4
402897 2007 TW_{11}	18.1	X	224.53996	63.97519	297.23507	0.48246	0.2431721	0.27992313	2.3144272	20	4 9.9	22.1
402898 2007 TJ_{12}	15.7	X	234.16097	319.78108	45.12365	6.05183	0.2675371	0.12609795	3.9384985	20	4 26.2	22.1
402899 2007 TE_{17}	17.8	X	122.61466	20.43214	18.39392	1.84690	0.1848798	0.26161837	2.4211622	20	2 26.6	21.1
402900 2007 TL_{20}	17.6	X	240.53200	274.47063	52.09857	3.21950	0.2422036	0.27848337	2.3223974	20	3 12.9	21.3
402901 2007 TF_{36}	17.4	X	192.47116	79.96138	343.32457	21.56465	0.2953332	0.28550071	2.2841849	20	5 26.3	22.0
402902 2007 TG_{38}	18.1	X	186.40639	330.20076	32.36377	1.87207	0.1992475	0.27293378	2.3537727	20	3 13.2	21.8
402903 2007 TH_{38}	17.7	X	271.09119	279.57518	16.91612	6.83129	0.1521300	0.27979608	2.3151278	20	3 12.1	20.8
402904 2007 TY_{41}	17.9	X	160.21936	208.32118	180.56179	1.76732	0.1427579	0.27326272	2.3518834	20	3 18.6	21.4
402905 2007 TU_{43}	17.1	X	185.44138	57.66437	331.76776	6.09563	0.1379945	0.27449162	2.3448586	20	4 10.6	20.8
402906 2007 TU_{52}	17.1	X	87.00599	104.12741	28.72530	5.94666	0.0830314	0.27295747	2.3536365	20	4 30.8	20.0
402907 2007 TF_{56}	17.6	X	136.79472	7.70587	22.83648	2.35311	0.1974499	0.26378596	2.4078805	20	3 3.6	21.0
402908 2007 TW_{57}	18.2	X	178.32280	177.42567	208.55412	0.79587	0.1833841	0.27186617	2.3599308	20	4 3.2	21.8
402909 2007 TL_{68}	17.6	X	182.23551	250.66742	125.70823	2.23260	0.1918563	0.27239057	2.3569010	20	3 26.9	21.4
402910 2007 TC_{72}	17.7	X	156.69042	117.67813	312.53829	0.75157	0.1538690	0.27335832	2.3513351	20	5 8.3	21.3
402911 2007 TB_{78}	17.3	X	164.42003	94.70170	311.24949	1.40791	0.1776607	0.27212061	2.3584595	20	4 15.1	20.9
402912 2007 TG_{80}	17.1	X	130.75406	320.43343	99.71609	2.41312	0.1643976	0.26843570	2.3799940	20	3 31.9	20.6
402913 2007 TM_{97}	17.7	X	205.96406	246.60812	102.80191	2.24342	0.2050473	0.27444923	2.3451001	20	3 13.7	21.4
402914 2007 TB_{122}	17.2	X	156.20774	354.24484	53.42691	2.40900	0.1773860	0.27103725	2.3647400	20	4 11.0	20.7
402915 2007 TW_{126}	18.3	X	146.71003	209.69429	181.97142	2.52351	0.2337012	0.26590937	2.3950447	20	3 16.6	22.1
402916 2007 TE_{130}	17.8	X	155.37010	162.29625	195.79195	2.11131	0.1028947	0.26045931	2.4283398	20	1 31.3	21.3
402917 2007 TV_{130}	17.3	X	178.15598	259.31936	142.65401	6.06418	0.2322483	0.27332366	2.3515338	20	4 26.8	21.3
402918 2007 TD_{137}	18.0	X	252.65620	80.43374	216.39519	2.80013	0.1798111	0.27264486	2.3554353	20	2 17.5	21.7
402919 2007 TK_{140}	17.5	X	156.01577	280.89812	88.29131	2.38447	0.2225171	0.26564567	2.3966294	20	2 26.5	21.3
402920 Tsawout	15.6	X	221.97786	274.37224	117.72501	12.12984	0.2730434	0.12666530	3.9267292	20	5 20.5	22.3
402921 2007 TD_{143}	17.0	X	125.39647	317.37252	98.75408	6.25328	0.2314580	0.26472019	2.4022120	20	3 30.8	20.7
402922 2007 TG_{150}	18.3	X	224.46541	21.49776	339.56263	7.02702	0.2370706	0.28150100	2.3057706	20	4 7.5	22.3
402923 2007 TX_{151}	17.4	X	176.44690	72.53955	287.67421	3.97540	0.1916921	0.27129991	2.3632135	20	2 28.3	21.3
402924 2007 TP_{156}	18.1	X	182.25485	14.74662	7.26010	5.94618	0.2453440	0.27348914	2.3505852	20	4 2.7	22.0
402925 2007 TN_{157}	17.9	X	138.53830	111.57229	233.31544	2.06601	0.2317151	0.25949098	2.4343772	20	1 11.5	21.5
402926 2007 TT_{162}	15.5	X	222.98761	356.03488	26.22652	3.07808	0.2404379	0.12609502	3.9385596	20	5 8.1	22.0
402927 2007 TS_{165}	17.5	X	110.66475	157.01159	282.76573	1.19219	0.1477798	0.26700519	2.3884872	20	3 30.5	20.7
402928 2007 TD_{172}	17.7	X	219.27807	234.55338	119.35190	2.90686	0.1940564	0.27682585	2.3316586	20	3 31.1	21.5
402929 2007 TU_{176}	17.7	X	132.20384	6.54396	47.97295	3.02153	0.1700502	0.26687640	2.3892556	20	3 26.7	21.1
402930 2007 TJ_{181}	17.4	X	154.59671	273.21615	98.32298	6.52257	0.1494873	0.26574723	2.3960188	20	2 23.4	20.9
402931 2007 TJ_{213}	17.7	X	93.98957	112.93366	312.92235	2.61355	0.1622613	0.25978886	2.4325160	20	2 21.4	20.3
402932 2007 TN_{213}	17.5	X	95.29661	71.88245	12.01480	7.10294	0.2212244	0.26204496	2.4185339	20	3 28.8	20.5
402933 2007 TB_{214}	18.0	X	140.44382	38.46133	344.71298	3.15323	0.2005302	0.26317198	2.4116241	20	2 26.8	21.6
402934 2007 TO_{223}	17.3	X	138.35589	270.65580	91.92460	16.58215	0.1586889	0.25877793	2.4388470	20	1 26.9	20.9
402935 2007 TH_{239}	17.6	X	216.27420	228.91186	78.46523	3.36112	0.2341942	0.26937762	2.3744428	20	1 31.2	21.7
402936 2007 TP_{243}	17.8	X	202.76927	70.46424	314.59473	7.86217	0.2261663	0.27877275	2.3207899	20	4 19.1	21.9
402937 2007 TQ_{252}	17.9	X	250.90746	84.30284	196.78867	3.52357	0.1679181	0.27037788	2.3685830	20	1 28.6	21.6
402938 2007 TO_{260}	15.3	X	233.38658	309.96099	59.51334	3.54419	0.2599268	0.12558725	3.9491687	20	5 1.3	21.6
402939 2007 TP_{262}	18.1	X	186.39559	313.48464	35.78876	1.81965	0.2031372	0.26745552	2.3858053	20	2 26.5	22.0
402940 2007 TK_{266}	18.0	X	157.69295	305.47313	83.92931	1.36135	0.2370460	0.26778842	2.3838276	20	3 24.2	21.8
402941 2007 TA_{275}	15.8	X	211.32495	243.84013	147.64895	3.57201	0.2786639	0.12580552	3.9445995	20	5 9.9	22.5
402942 2007 TT_{311}	17.6	X	221.04468	142.29439	102.93989	2.98296	0.1383363	0.25396255	2.4695790	20	—	—
402943 2007 TZ_{322}	17.4	X	147.99954	344.95101	72.37932	5.95622	0.1945657	0.27164766	2.3611961	20	4 18.3	21.1
402944 2007 TT_{331}	17.7	X	180.38455	338.42191	13.32264	5.81913	0.1414003	0.26559274	2.3969478	20	2 23.3	21.3
402945 2007 TB_{333}	17.7	X	199.19415	66.98257	308.92253	1.28341	0.2085231	0.27463440	2.3440458	20	4 8.2	21.6
402946 2007 TN_{348}	18.3	X	224.32869	248.99558	135.15851	2.38934	0.2798680	0.28707023	2.2758516	20	5 7.8	22.2
402947 2007 TS_{355}	17.2	X	222.67554	194.11383	159.31084	13.46973	0.2650520	0.27812285	2.3244039	20	3 31.9	21.3
402948 2007 TT_{362}	16.9	X	21.42757	118.57028	62.00706	7.76199	0.0594198	0.26571768	2.3961964	20	3 29.6	19.6
402949 2007 TL_{364}	15.7	X	208.94056	173.84051	232.20183	4.94171	0.2809522	0.12520539	3.9571941	20	5 23.7	22.3
402950 2007 TV_{366}	17.6	X	198.57347	24.02109	328.28347	3.28526	0.2085373	0.27097152	2.3651224	20	3 9.6	21.6
402951 2007 TK_{369}	17.5	X	260.98716	344.01647	2.21315	3.97104	0.1624719	0.28244719	2.3006182	20	5 1.7	20.5
402952 2007 TD_{376}	17.3	X	235.06471	314.00011	8.61577	6.44284	0.1413030	0.27225264	2.3576969	20	3 9.1	20.8
402953 2007 TL_{378}	17.1	X	20.54539	195.18740	217.13704	14.60263	0.0993524	0.24372108	2.5382866	20	—	—
402954 2007 TV_{385}	14.9	X	205.26875	303.96704	93.57809	10.52133	0.2703692	0.12451544	3.9717988	20	5 14.4	21.6
402955 2007 TN_{386}	17.9	X	143.17289	332.31034	50.31107	2.92904	0.2414117	0.26401280	2.4065011	20	3 4.6	21.6
402956 2007 TP_{388}	18.2	X	99.55661	2.66741	68.25391	2.29649	0.1601325	0.26468547	2.4024221	20	3 8.0	21.1
402957 2007 TJ_{400}	17.8	X	174.69179	43.44158	321.86776	3.48667	0.1496053	0.27154816	2.3617729	20	3 2.9	21.2
402958 2007 TG_{406}	15.4	X	208.37588	42.48047	357.43908	2.46170	0.2249695	0.12551079	3.9507723	20	5 17.6	21.9
402959 2007 TU_{406}	17.9	X	190.03314	348.61322	38.75986	2.14248	0.1959185	0.27415622	2.3467706	20	4 15.7	21.7
402960 2007 TT_{433}	17.5	X	144.05907	306.69424	125.44111	5.17778	0.1773277	0.27240370	2.3568253	20	5 2.3	21.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
402961 2007 TY_{435}	17.4	X	144.03972	247.86087	122.11535	7.11844	0.1208867	0.25885003	2.4383941	20	2 6.1	20.7
402962 2007 TM_{439}	18.0	X	183.70859	329.72769	350.09504	2.35545	0.1707793	0.26310081	2.4120590	20	1 18.3	21.8
402963 2007 TR_{447}	16.9	X	139.11932	316.88207	71.88579	6.83026	0.0394669	0.26450974	2.4034861	20	2 16.0	20.1
402964 2007 UP_{3}	17.3	X	175.52989	33.33029	328.54299	6.77718	0.2108683	0.26877824	2.3779715	20	3 2.2	21.0
402965 2007 UT_{4}	18.0	X	185.90707	43.93653	13.07479	1.76911	0.2148488	0.27937277	2.3174658	20	5 19.2	21.9
402966 2007 UE_{9}	15.5	X	210.68916	302.61390	103.21841	4.47173	0.2697030	0.12659120	3.9282613	20	5 25.6	22.1
402967 2007 UG_{18}	17.8	X	162.88299	299.42892	108.22987	5.73826	0.2322714	0.27257456	2.3558402	20	4 21.7	21.7
402968 2007 UT_{29}	18.3	X	148.91669	146.38355	196.45429	8.39578	0.2167463	0.26027954	2.4294578	20	1 16.0	22.1
402969 2007 UY_{47}	17.6	X	170.36613	259.77687	76.21556	3.12662	0.1949213	0.25995820	2.4314595	20	1 27.9	21.4
402970 2007 UB_{49}	17.5	X	163.06935	305.74715	71.91032	6.82182	0.1255645	0.26579347	2.3957409	20	3 10.3	21.1
402971 2007 UG_{56}	17.9	X	171.61859	207.81187	209.97902	4.82806	0.1524723	0.27708219	2.3302203	20	5 7.4	21.4
402972 2007 UZ_{59}	17.4	X	163.93160	122.56724	266.00419	1.13161	0.2147278	0.26855272	2.3793026	20	3 25.9	21.2
402973 2007 UB_{96}	17.7	X	147.26312	97.22035	314.63623	1.94689	0.1809790	0.26914654	2.3758016	20	4 6.5	21.3
402974 2007 UT_{96}	17.7	X	237.04011	48.76592	271.54807	0.77432	0.1900708	0.27183567	2.3601073	20	3 3.6	21.3
402975 2007 UX_{114}	17.4	X	183.24164	339.15062	31.06020	5.21909	0.2033181	0.26967909	2.3726729	20	3 21.2	21.4
402976 2007 UM_{132}	15.0	X	241.10503	291.17301	69.59027	3.85427	0.2554293	0.12615160	3.9373819	20	4 28.1	21.4
402977 2007 UD_{136}	17.7	X	200.41966	231.32909	140.95708	3.34598	0.2053831	0.27446400	2.3450159	20	4 6.7	21.5
402978 2007 UT_{138}	17.4	X	219.60594	181.40030	212.83546	5.92726	0.1316208	0.27899765	2.3195426	20	5 25.6	20.7
402979 2007 US_{140}	17.3	X	149.77613	288.13481	121.58516	6.64536	0.1833566	0.26795851	2.3828188	20	4 10.6	21.1
402980 2007 UZ_{141}	15.6	X	240.43385	23.43292	355.72579	2.31841	0.2589064	0.12508628	3.9597059	20	5 16.8	22.0
402981 2007 VF_{12}	17.7	X	196.59385	321.40076	54.29911	3.01188	0.2235110	0.27327779	2.3517970	20	4 7.4	21.6
402982 2007 VV_{14}	17.8	X	168.18854	257.16411	98.57209	3.63431	0.2021494	0.26369648	2.4084252	20	2 19.6	21.7
402983 2007 VP_{40}	17.3	X	219.41713	223.35744	83.52643	6.09162	0.2327161	0.26804684	2.3822953	20	2 2.7	21.3
402984 2007 VZ_{58}	17.4	X	119.19121	6.50513	31.89629	5.81624	0.1795460	0.25882218	2.4385691	20	2 23.8	20.7
402985 2007 VN_{73}	17.0	X	94.95283	72.98404	247.17532	8.83752	0.1067162	0.23624357	2.5915686	20	—	—
402986 2007 VJ_{80}	18.3	X	173.34273	334.11111	43.98059	2.05453	0.1948317	0.26733382	2.3865293	20	3 21.5	22.2
402987 2007 VX_{85}	17.7	X	202.27708	16.91267	349.11794	6.06977	0.1671047	0.27437825	2.3455045	20	3 29.2	21.5
402988 2007 VX_{87}	17.6	X	153.61918	91.61035	298.15719	4.22838	0.2303134	0.26626420	2.3929164	20	3 18.1	21.5
402989 2007 VF_{89}	17.3	X	173.09616	271.10293	106.66553	2.14879	0.1894585	0.26946591	2.3739241	20	3 20.8	21.1
402990 2007 VJ_{100}	17.3	X	334.08382	151.37983	267.28841	5.01940	0.0950241	0.22916301	2.6446795	20	12 13.7	20.3
402991 2007 VJ_{151}	16.5	X	73.82369	333.79679	89.93877	6.31195	0.1010192	0.25224176	2.4807979	20	1 11.3	19.3
402992 2007 VQ_{153}	17.7	X	89.19396	204.13990	228.52630	4.48843	0.1194054	0.26220820	2.4175300	20	2 14.8	20.5
402993 2007 VB_{162}	17.5	X	316.48111	122.40223	29.55454	4.42225	0.1526146	0.24201421	2.5502072	20	—	—
402994 2007 VU_{166}	17.7	X	2.64210	23.84751	94.10841	2.90658	0.0948526	0.24591296	2.5231812	20	—	—
402995 2007 VC_{199}	16.8	X	327.34646	301.58788	41.26799	9.07215	0.0874644	0.21687434	2.7436620	20	8 21.6	20.2
402996 2007 VD_{228}	16.8	X	309.09655	128.44489	12.24020	5.97810	0.1875351	0.23766466	2.5812277	20	—	—
402997 2007 VO_{232}	17.1	X	136.49143	282.73306	62.86108	7.75047	0.1143449	0.25223452	2.4808454	20	—	—
402998 2007 VQ_{243}	17.9	X	135.69416	316.08569	71.37023	1.81451	0.1579039	0.26103345	2.4247778	20	2 23.5	21.2
402999 2007 VJ_{264}	17.8	X	210.95326	331.51611	26.05884	1.84406	0.1995636	0.27219963	2.3580030	20	3 27.5	21.6
403000 2007 VJ_{265}	17.1	X	355.48224	209.85371	262.25377	8.00177	0.1276416	0.24215756	2.5492007	20	—	—
403001 2007 VE_{266}	17.2	X	180.70817	293.33265	91.87737	3.21289	0.2251409	0.26954774	2.3734436	20	4 7.2	21.2
403002 2007 VE_{270}	17.4	X	211.24005	146.82460	258.56457	6.74280	0.1833723	0.27915951	2.3186459	20	5 27.9	21.0
403003 2007 VG_{270}	16.9	X	339.43876	93.99100	49.11026	5.75274	0.2411451	0.24293174	2.5437819	20	—	—
403004 2007 VV_{276}	17.7	X	210.39670	30.98215	275.92190	5.41797	0.1513917	0.26395270	2.4068664	20	1 24.6	21.4
403005 2007 VP_{283}	17.2	X	177.21519	246.62534	64.15021	3.31245	0.2012641	0.25436165	2.4669952	20	1 4.2	21.1
403006 2007 VD_{288}	17.4	X	102.17520	143.03093	310.80783	4.47264	0.1583376	0.26360495	2.4089827	20	4 7.8	20.6
403007 2007 VA_{291}	17.6	X	87.19469	356.73971	88.74985	3.60399	0.1370397	0.25825074	2.4421650	20	3 8.1	20.4
403008 2007 VH_{298}	16.6	X	311.10647	330.92933	119.04462	14.84793	0.2151936	0.23163161	2.6258556	20	12 19.6	18.9
403009 2007 VP_{305}	17.0	X	8.59631	216.14393	254.67156	5.09211	0.1409006	0.24448375	2.5330050	20	—	—
403010 2007 VS_{312}	17.5	X	115.80729	348.12345	65.13055	7.31403	0.1058336	0.25879613	2.4387327	20	2 29.9	20.8
403011 2007 VE_{328}	15.5	X	239.37614	79.49024	305.13767	4.95917	0.2438623	0.12488159	3.9640316	20	5 23.1	21.8
403012 2007 VD_{332}	16.8	X	12.81929	127.56096	259.28617	10.71024	0.1355169	0.23168408	2.6254591	20	—	—
403013 2007 VX_{332}	17.5	X	145.41443	83.84368	322.87755	6.21160	0.1150500	0.26718730	2.3874018	20	3 21.6	21.0
403014 2007 VH_{333}	17.3	X	74.29686	311.87518	95.75401	8.16165	0.2362671	0.24368560	2.5385329	20	1 10.4	19.7
403015 2007 WP_{5}	17.2	X	231.66834	314.69145	1.96416	6.30325	0.2488000	0.27285020	2.3542533	20	2 23.1	21.1
403016 2007 WY_{7}	17.9	X	168.98210	29.55294	350.72866	3.78572	0.2641251	0.26790746	2.3831214	20	3 22.2	21.8
403017 2007 WJ_{24}	17.6	X	46.04422	18.08843	73.37002	7.43888	0.1466823	0.25222123	2.4809325	20	1 4.9	19.9
403018 2007 WY_{27}	17.1	X	6.07981	167.18776	291.41104	4.45576	0.1290086	0.24209478	2.5496414	20	—	—
403019 2007 WY_{55}	17.3	X	160.39745	147.05467	267.41489	1.70099	0.1876808	0.26957380	2.3732907	20	4 22.9	20.9
403020 2007 WV_{61}	16.6	X	39.28864	155.35284	286.28257	11.16333	0.1242160	0.24646283	2.5194269	20	—	—
403021 2007 WZ_{62}	16.5	X	144.75525	24.84398	285.53835	13.96647	0.0902984	0.23783152	2.5800202	20	—	—
403022 2007 XG_{3}	17.5	X	154.55953	291.62246	80.88434	11.73604	0.2777523	0.26318428	2.4115490	20	3 9.1	21.8
403023 2007 XR_{5}	17.3	X	133.64870	257.05153	140.01277	3.66916	0.1962425	0.26153566	2.4216727	20	3 8.8	20.8
403024 2007 XU_{16}	17.4	X	218.74886	82.74896	284.05753	4.21873	0.2629295	0.27522048	2.3407169	20	4 9.9	21.6
403025 2007 XH_{20}	16.2	X	251.69557	235.02485	255.93044	26.03247	0.0509124	0.22577501	2.6710712	20	11 17.5	19.8
403026 2007 XL_{35}	16.9	X	208.00019	120.96934	285.25809	7.61556	0.0955882	0.27769213	2.3268069	20	5 30.2	20.3
403027 2007 XE_{45}	17.3	X	191.82716	247.49274	94.87575	3.14384	0.2179252	0.26221418	2.4174932	20	2 23.8	21.3
403028 2007 XE_{50}	17.1	X	66.60432	295.69871	132.47108	1.59792	0.1450928	0.24661475	2.5183921	20	1 11.4	19.7
403029 2007 XK_{52}	17.1	X	124.41333	296.37043	109.08409	9.42129	0.1887319	0.25625531	2.4548265	20	3 12.6	20.7
403030 2007 XX_{56}	17.9	X	180.18256	141.93561	259.53754	1.49115	0.1952486	0.27147996	2.3621685	20	4 24.4	21.7
403031 2007 YG_{14}	16.3	X	189.78966	229.23286	305.63393	13.84196	0.1809050	0.21149165	2.7900194	20	10 8.7	21.1
403032 2007 YF_{43}	16.9	X	140.42338	123.31427	82.38501	7.95034	0.2611758	0.20607276	2.8387185	20	10 15.1	22.0
403033 2007 YK_{53}	17.5	X	15.44085	332.81348	116.49906	1.88486	0.1195967	0.23674166	2.5879324	20	—	—
403034 2007 YU_{58}	16.3	X	222.85225	63.02365	102.81815	15.67964	0.2702224	0.21443097	2.7644646	20	11 3.2	21.0
403035 2007 YB_{59}	17.6	X	297.54087	1.66775	100.21064	22.74876	0.0710221	0.38309207	1.8775893	20	—	—
403036 2007 YN_{62}	17.6	X	36.59808	127.18135	305.21294	3.83275	0.1592071	0.23894930	2.5719679	20	—	—
403037 2007 YX_{67}	17.1	X	18.76946	21.97248	65.63480	8.71771	0.1656318	0.23840316	2.5758943	20	—	—
403038 2007 YG_{68}	17.2	X	10.48264	314.80056	127.13696	9.80851	0.1390617	0.23445911	2.6047016	20	—	—
403039 2008 AE	19.7	X	181.47273	26.89388	132.14196	11.57157	0.1308910	0.68360181	1.2762446	20	—	—
403040 2008 AZ_{4}	17.5	X	12.83931	329.89318	122.69078	5.79228	0.2334692	0.23724410	2.5842772	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
403041 2008 AC_5	16.8	X	310.19110	217.08688	310.94324	3.55190	0.1094737	0.23506271	2.6002407	20	—	—
403042 2008 AC_{14}	16.4	X	130.38150	280.36175	266.59352	5.17831	0.0537611	0.20159480	2.8806014	20	8 29.8	20.6
403043 2008 AZ_{18}	17.4	X	132.57719	50.52909	5.66327	2.32741	0.1883393	0.25652070	2.4531331	20	3 30.6	21.1
403044 2008 AO_{26}	16.4	X	36.12494	124.80763	296.68329	28.27438	0.0993548	0.23595683	2.5936678	20	—	—
403045 2008 AD_{29}	16.8	X	245.89987	209.51829	316.29718	12.08772	0.1133936	0.22255948	2.6967373	20	12 14.9	20.6
403046 2008 AU_{30}	17.0	X	158.78086	100.89078	121.42965	8.54940	0.1686518	0.21358948	2.7717208	20	11 17.7	21.6
403047 2008 AB_{32}	16.6	X	325.18479	171.87840	322.84968	25.86107	0.2001075	0.23008086	2.6376412	20	—	—
403048 2008 AR_{35}	18.0	X	132.32374	93.78223	308.53207	1.84453	0.2113796	0.25592461	2.4569407	20	3 14.5	21.6
403049 2008 AY_{36}	17.7	X	198.31468	199.77889	234.72242	4.82638	0.3232920	0.27784107	2.3259752	20	6 18.3	22.0
403050 2008 AC_{67}	17.2	X	290.65680	150.97734	333.23749	3.34373	0.1994033	0.22292481	2.6937903	20	12 19.9	19.7
403051 2008 AC_{71}	17.5	X	12.34404	153.72958	297.03264	3.80515	0.1992944	0.23547388	2.5972129	20	—	—
403052 2008 AP_{76}	16.5	X	211.07459	136.78206	88.28341	4.96532	0.1038378	0.22660104	2.6645761	20	—	—
403053 2008 AJ_{77}	17.7	X	25.55013	112.85191	317.08019	13.47183	0.1428354	0.23560354	2.5962599	20	—	—
403054 2008 AN_{78}	16.7	X	312.93082	24.78448	110.59791	12.93735	0.1344222	0.23067220	2.6331315	20	—	—
403055 2008 AR_{84}	17.1	X	305.59220	202.91759	283.91313	6.44601	0.2547289	0.22848975	2.6498720	20	—	—
403056 2008 AV_{91}	16.7	X	141.36299	286.51960	326.20234	7.83798	0.1876225	0.21755139	2.7379666	20	12 5.6	21.5
403057 2008 AZ_{107}	17.4	X	132.59469	262.23105	126.91345	2.61699	0.1982505	0.25347696	2.4727320	20	2 27.5	21.0
403058 2008 AZ_{114}	17.3	X	100.47719	2.37177	350.93713	3.75997	0.0742788	0.23101051	2.6305600	20	—	—
403059 2008 AO_{115}	17.8	X	57.13883	86.65060	328.96675	3.52212	0.1651091	0.23690154	2.5867679	20	—	—
403060 2008 AW_{137}	17.5	X	102.60190	47.61869	344.92393	4.29601	0.1021364	0.24112903	2.5564446	20	1 15.2	20.6
403061 2008 BR_5	17.4	X	87.06932	97.69189	302.17458	11.30966	0.1640120	0.24361907	2.5389951	20	1 11.1	20.3
403062 2008 BB_{20}	16.3	X	63.87015	61.60625	294.20225	15.60390	0.0397739	0.22768833	2.6560864	20	—	—
403063 2008 BZ_{21}	16.9	X	273.80250	170.98827	347.91201	12.81577	0.1742485	0.22120889	2.7077029	20	—	—
403064 2008 BZ_{33}	16.6	X	79.76521	32.88585	326.00054	10.55124	0.0896657	0.22402030	2.6850011	20	—	—
403065 2008 BN_{34}	16.7	X	63.73197	115.81097	334.06840	12.62052	0.0981528	0.24173913	2.5521414	20	2 4.1	19.6
403066 2008 BD_{40}	17.5	X	224.15684	65.61292	136.85152	27.86103	0.0488562	0.38184605	1.8816717	20	—	—
403067 2008 BF_{42}	16.2	X	286.51704	52.37749	97.11740	8.93490	0.1696978	0.22521608	2.6754887	20	—	—
403068 2008 BL_{42}	16.6	X	320.51062	64.65767	75.79748	8.85066	0.1497443	0.23191823	2.6236917	20	—	—
403069 2008 BU_{42}	16.5	X	248.55802	7.25308	141.76374	9.52784	0.1363334	0.21553783	2.7549923	20	11 24.4	20.3
403070 2008 BW_{42}	16.4	X	63.77097	80.10180	316.34522	21.59159	0.0634473	0.23209771	2.6223388	20	—	—
403071 2008 BV_{47}	16.7	X	200.29935	110.55431	152.58235	14.69786	0.0850664	0.22612575	2.6683085	20	—	—
403072 2008 BV_{51}	16.7	X	195.79906	300.50796	330.03562	13.31832	0.0614759	0.23436117	2.6054272	20	—	—
403073 2008 BV_{53}	17.3	X	142.15320	326.96575	331.58192	3.94800	0.0453721	0.22343197	2.6897124	20	—	—
403074 2008 CZ_2	16.9	X	182.40308	90.54425	126.51886	5.84695	0.1049374	0.21071803	2.7968441	20	12 4.4	21.2
403075 2008 CD_3	16.4	X	269.13502	12.74879	154.28085	25.82303	0.0801602	0.22064449	2.7123183	20	—	—
403076 2008 CV_{12}	17.9	X	79.61158	337.11718	333.95733	18.88549	0.0676204	0.37390818	1.9082096	20	—	—
403077 2008 CW_{12}	17.0	X	65.11861	23.99211	38.43430	4.09958	0.2051298	0.24061326	2.5600966	20	1 10.3	19.4
403078 2008 CP_{13}	16.9	X	72.40944	81.37417	337.91581	15.94625	0.0864061	0.23852941	2.5749853	20	1 7.8	20.2
403079 2008 CF_{18}	17.6	X	277.52088	150.51975	318.30317	18.88708	0.0979886	0.37621788	1.9003916	20	—	—
403080 2008 CJ_{19}	17.1	X	245.37440	64.19153	103.53034	11.11001	0.1486008	0.22042250	2.7141391	20	12 11.7	20.7
403081 2008 CU_{19}	17.0	X	206.12490	238.81406	323.20625	11.74529	0.0584478	0.21883412	2.7272568	20	12 18.0	21.0
403082 2008 CV_{20}	16.7	X	66.09831	324.84527	114.58068	12.38124	0.2045824	0.24463713	2.5319462	20	2 5.5	19.1
403083 2008 CA_{23}	17.3	X	308.44620	71.64985	29.41572	2.25877	0.0308503	0.22152215	2.7051495	20	12 27.5	20.6
403084 2008 CK_{34}	17.6	X	267.45634	69.85256	82.17856	0.82182	0.0159371	0.22079213	2.7111090	20	—	—
403085 2008 CK_{37}	17.4	X	297.02347	317.73634	160.96229	9.27739	0.1065210	0.22026987	2.7153927	20	12 30.1	20.6
403086 2008 CW_{43}	16.5	X	63.06599	229.00317	139.20627	12.36955	0.0571835	0.22071582	2.7117339	20	—	—
403087 2008 CB_{44}	17.2	X	89.37724	315.26866	30.16837	6.85628	0.0716548	0.22099759	2.7094285	20	—	—
403088 2008 CC_{46}	16.7	X	201.08938	200.19087	334.50968	14.26769	0.0917691	0.20731748	2.8273448	20	10 26.7	21.2
403089 2008 CB_{61}	16.7	X	161.66730	137.94799	103.86726	3.95794	0.0496141	0.21405418	2.7677078	20	12 15.7	20.8
403090 2008 CX_{67}	16.7	X	165.81123	140.89644	103.32238	5.00016	0.0480742	0.21496784	2.7598601	20	12 23.5	20.7
403091 2008 CX_{72}	16.5	X	334.15815	314.51515	137.31651	22.42576	0.0398021	0.22519393	2.6756641	20	—	—
403092 2008 CA_{73}	17.6	X	78.20969	44.01989	315.97918	19.75699	0.1076400	0.38709611	1.8646193	20	—	—
403093 2008 CO_{84}	16.3	X	43.11664	122.53998	320.31989	21.11962	0.0432779	0.23655828	2.5892696	20	—	—
403094 2008 CY_{87}	17.1	X	28.01728	337.19112	105.98995	4.70780	0.1558219	0.23414666	2.6070182	20	—	—
403095 2008 CJ_{95}	16.9	X	8.85765	358.65039	86.78960	5.62916	0.2716154	0.23266826	2.6180501	20	—	—
403096 2008 CQ_{107}	17.4	X	0.60995	314.09876	126.87815	4.00111	0.1045682	0.22778156	2.6553616	20	—	—
403097 2008 CN_{119}	16.9	X	175.99975	81.92928	141.20930	5.34190	0.1513578	0.21387894	2.7692194	20	12 2.9	21.4
403098 2008 CW_{122}	16.8	X	109.42254	241.89773	149.85408	14.37648	0.2862697	0.24668812	2.5178928	20	2 17.0	20.3
403099 2008 CQ_{126}	17.2	X	153.51197	331.10068	298.77931	2.22549	0.0296017	0.22106253	2.7088978	20	—	—
403100 2008 CP_{137}	16.9	X	87.05208	62.19617	143.42875	10.81469	0.1318866	0.18870946	3.0102803	20	8 13.4	21.2
403101 2008 CK_{138}	16.9	X	185.70932	59.50103	146.24276	8.41220	0.1616259	0.21013632	2.8020032	20	11 21.3	21.5
403102 2008 CU_{148}	17.6	X	120.95019	223.10796	198.90207	3.00278	0.1804397	0.25415433	2.4683366	20	3 24.7	21.0
403103 2008 CS_{151}	17.2	X	107.08556	218.16462	176.35219	10.88293	0.0565134	0.23849048	2.5752655	20	1 15.0	20.7
403104 2008 CR_{152}	16.3	X	33.99631	266.11524	165.17165	22.08011	0.0550587	0.23008567	2.6376045	20	—	—
403105 2008 CJ_{158}	17.0	X	351.01702	27.76578	16.68458	6.30107	0.0261665	0.21312264	2.7757668	20	12 9.3	20.7
403106 2008 CO_{159}	17.6	X	49.83445	52.42478	23.98900	5.22925	0.1992499	0.24153594	2.5535726	20	—	—
403107 2008 CC_{160}	17.5	X	76.41724	240.41379	176.38776	9.00300	0.3213417	0.24213558	2.5493549	20	2 9.7	20.2
403108 2008 CJ_{160}	17.0	X	332.42570	117.20034	319.44351	7.59549	0.0903089	0.21727716	2.7402698	20	12 31.6	20.3
403109 2008 CH_{181}	16.6	X	29.07719	73.59532	355.42524	12.08073	0.1973927	0.23713889	2.5850416	20	—	—
403110 2008 CU_{185}	17.0	X	336.64733	20.74770	88.86066	14.07654	0.2400577	0.23038528	2.6353172	20	—	—
403111 2008 CV_{187}	16.2	X	62.32209	77.74066	120.04594	19.09270	0.1847023	0.18146035	3.0899270	20	7 10.8	20.3
403112 2008 CG_{189}	16.3	X	20.41810	181.70593	282.05817	12.12269	0.0677782	0.23853268	2.5749618	20	—	—
403113 2008 CK_{195}	16.7	X	191.34489	67.83735	172.44648	7.11396	0.0299976	0.21622840	2.7491233	20	—	—
403114 2008 CV_{201}	16.9	X	244.94777	133.84452	13.94889	9.96116	0.0544783	0.21011600	2.8021839	20	11 23.8	20.9
403115 2008 CM_{209}	16.7	X	15.61039	337.33602	121.14139	12.54236	0.1498803	0.23508022	2.6001116	20	—	—
403116 2008 DO_2	16.8	X	214.49514	48.97625	145.19232	14.04569	0.0975592	0.21868676	2.7284817	20	12 14.5	20.9
403117 2008 DT_7	17.0	X	338.06782	333.37878	132.81780	12.69430	0.1197263	0.23066781	2.6331649	20	—	—
403118 2008 DB_{12}	17.2	X	59.19854	317.24263	111.33157	4.35350	0.1198330	0.24028994	2.5623925	20	—	—
403119 2008 DV_{14}	16.4	X	86.93923	48.44836	355.88193	13.93194	0.0276106	0.23223296	2.6213206	20	1 1.6	20.1
403120 2008 DC_{16}	16.5	X	351.74611	101.71339	356.08423	10.89520	0.0420424	0.22794678	2.6540784	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
403121 2008 DX_{16}	16.5	X	304.26589	51.67474	67.70955	8.24709	0.2836787	0.22445459	2.6815365	20	—	—
403122 2008 DJ_{38}	16.7	X	11.31295	109.15953	4.13686	13.99159	0.0534940	0.22907747	2.6453378	20	—	—
403123 2008 DA_{53}	17.0	X	333.16158	122.65967	334.19242	5.79074	0.2162813	0.22318251	2.6917162	20	—	—
403124 2008 DV_{56}	16.6	X	246.22127	69.31208	84.39090	13.55262	0.1461998	0.21364737	2.7712201	20	11 24.9	20.4
403125 2008 DZ_{64}	17.5	X	50.95027	339.22101	30.20791	6.45229	0.0213256	0.21921431	2.7241025	20	—	—
403126 2008 DO_{76}	17.1	X	130.72900	274.31853	352.71810	4.48510	0.1409921	0.21003365	2.8029163	20	12 12.3	21.7
403127 2008 DK_{84}	16.6	X	238.17784	170.64102	357.33398	11.17743	0.0253186	0.21381713	2.7697531	20	12 17.6	20.6
403128 2008 DD_{87}	16.9	X	143.25146	221.92273	348.33088	2.45425	0.0985554	0.19890753	2.9064882	20	10 15.0	21.4
403129 2008 EC_{9}	18.4	X	343.03931	91.50824	336.78118	20.10099	0.0998298	0.37948654	1.8894633	20	—	—
403130 2008 EK_{9}	17.9	X	55.53125	62.67086	339.31505	18.50847	0.1359011	0.38868103	1.8595470	20	—	—
403131 2008 EY_{18}	16.6	X	194.54524	202.08243	328.05430	4.84675	0.2141388	0.20597793	2.8395897	20	10 9.9	21.3
403132 2008 EU_{20}	16.5	X	127.60486	327.31919	353.76499	13.33977	0.0741170	0.21882463	2.7273356	20	—	—
403133 2008 EC_{39}	17.1	X	189.02205	159.29461	41.11010	5.52522	0.0545611	0.20937468	2.8087944	20	11 23.8	21.2
403134 2008 ED_{47}	16.7	X	46.56606	296.45164	120.40350	4.95100	0.0973570	0.22267529	2.6958022	20	—	—
403135 2008 EX_{69}	17.2	X	323.94523	342.27202	118.21410	4.95496	0.1558655	0.21824759	2.7321408	20	—	—
403136 2008 EL_{74}	16.8	X	154.15006	157.93885	103.96296	5.08050	0.0484247	0.21226795	2.7832129	20	12 31.3	20.8
403137 2008 EX_{74}	15.9	X	346.54642	80.44640	172.33104	16.68767	0.0546369	0.17320460	3.1873501	20	5 18.7	20.4
403138 2008 EZ_{74}	17.2	X	230.88480	139.94482	40.10485	4.02211	0.0429354	0.21294726	2.7772907	20	12 21.1	21.0
403139 2008 EH_{96}	16.3	X	176.81199	131.10560	52.82883	8.54609	0.0242513	0.20101850	2.8861044	20	10 23.6	20.4
403140 2008 EV_{103}	17.5	X	276.01603	129.85852	355.50583	4.28904	0.0704335	0.21514167	2.7583732	20	12 8.1	21.0
403141 2008 EG_{124}	17.0	X	74.83599	32.64101	192.63085	8.75868	0.1249099	0.18644953	3.0345562	20	8 20.5	21.4
403142 2008 EN_{135}	17.3	X	314.12018	71.81081	49.72796	4.67278	0.0383154	0.21832672	2.7314806	20	—	—
403143 2008 EU_{141}	17.0	X	246.82678	213.70944	315.97124	7.83303	0.1137667	0.21632769	2.7482821	20	12 19.5	20.6
403144 2008 ED_{162}	14.1	X	244.00662	231.49645	102.00250	7.14170	0.0811073	0.08460665	5.1388554	20	4 18.9	21.2
403145 2008 ES_{162}	17.0	X	58.24654	317.06854	1.99382	1.76504	0.0627163	0.20287407	2.8684791	20	11 21.7	21.0
403146 2008 FD	16.0	X	264.72197	23.73506	120.69787	27.75277	0.2116510	0.21643875	2.7473419	20	12 5.5	19.9
403147 2008 FS_{9}	16.9	X	134.62961	264.72716	6.73805	3.33672	0.1758075	0.21142814	2.7905782	20	12 21.7	21.5
403148 2008 FV_{20}	17.5	X	209.73405	101.60865	95.76980	5.93167	0.0963058	0.20934482	2.8090614	20	12 9.7	21.5
403149 2008 FZ_{27}	16.5	X	84.33477	52.87839	168.12598	8.85389	0.2467129	0.18218768	3.0816977	20	9 11.8	21.2
403150 2008 FP_{37}	17.2	X	87.10668	312.51370	88.06281	4.14527	0.1199434	0.22857073	2.6492461	20	1 8.2	20.4
403151 2008 FF_{45}	16.3	X	79.39657	67.23912	167.46108	8.76997	0.0747225	0.19170647	2.9788242	20	9 2.5	20.5
403152 2008 FQ_{72}	16.5	X	52.53028	329.37023	43.66412	12.54241	0.1304335	0.21308967	2.7760532	20	—	—
403153 2008 FU_{89}	16.6	X	216.99541	221.01120	344.97111	7.13609	0.2135517	0.21928549	2.7235130	20	12 15.5	20.9
403154 2008 FG_{94}	16.0	X	65.79456	218.53652	46.81923	14.16320	0.1861535	0.18623235	3.0369150	20	10 14.0	20.5
403155 2008 FK_{97}	17.0	X	330.94092	60.53968	23.00492	4.65485	0.0379658	0.21439258	2.7647946	20	—	—
403156 2008 FR_{101}	16.4	X	102.96134	145.44615	73.78651	6.78723	0.2837535	0.18715866	3.0268863	20	10 2.5	21.6
403157 2008 FT_{102}	16.2	X	14.14044	249.93260	77.41833	10.43863	0.1424834	0.18697211	3.0288992	20	10 16.7	20.0
403158 2008 FL_{113}	17.0	X	53.53155	240.32360	82.73880	3.59946	0.0451028	0.20027984	2.8931963	20	11 18.8	20.9
403159 2008 FY_{116}	16.3	X	56.34136	253.65773	37.04987	5.30278	0.1724335	0.18882099	3.0090947	20	10 28.5	20.3
403160 2008 FU_{122}	17.1	X	116.22895	221.03195	35.66058	7.50094	0.0483874	0.20139778	2.8824798	20	11 10.1	21.2
403161 2008 FQ_{125}	17.0	X	65.03409	154.14506	161.16819	7.96411	0.0590301	0.20301960	2.8671081	20	11 26.9	21.2
403162 2008 FK_{129}	16.7	X	116.43861	154.91125	115.24489	6.94714	0.0261957	0.20074008	2.8887724	20	11 27.4	20.8
403163 2008 FO_{135}	16.7	X	229.70778	97.29704	80.33170	6.02467	0.1000711	0.21051712	2.7986232	20	12 8.2	20.4
403164 2008 FH_{136}	17.5	X	46.77634	45.25558	7.56729	2.55307	0.0685834	0.22656547	2.6648549	20	—	—
403165 2008 GQ_{58}	16.9	X	55.52109	157.05630	154.69618	2.35110	0.0612480	0.19892201	2.9063472	20	11 9.5	20.8
403166 2008 GF_{91}	16.5	X	25.22311	336.50997	54.26581	5.67637	0.0647886	0.20988655	2.8042258	20	—	—
403167 2008 GX_{99}	16.1	X	190.32812	93.43829	53.05507	11.04485	0.0593555	0.19201718	2.9756098	20	9 22.9	20.6
403168 2008 GO_{102}	16.1	X	76.01731	189.89611	51.97200	10.80976	0.2493173	0.18345135	3.0675297	20	10 3.8	20.9
403169 2008 GU_{103}	16.0	X	306.30509	264.50551	68.45691	10.70684	0.0932018	0.17673153	3.1448024	20	6 26.5	20.2
403170 2008 GP_{123}	16.4	X	169.84175	310.50918	59.99904	6.18583	0.2003950	0.24198827	2.5503895	20	3 13.5	20.6
403171 2008 GG_{126}	16.8	X	231.46816	273.63056	233.12686	4.95769	0.0206351	0.20187743	2.8779121	20	11 11.2	20.7
403172 2008 GO_{129}	16.5	X	117.27827	263.75145	71.35292	5.87229	0.1633590	0.20957496	2.8070046	20	—	—
403173 2008 GK_{139}	16.9	X	353.11226	39.16373	19.11497	6.64814	0.0317030	0.21090463	2.7951941	20	12 30.7	20.7
403174 2008 GT_{144}	16.3	X	85.68291	162.71878	101.64181	8.31564	0.0804511	0.19276042	2.9679561	20	10 22.4	20.7
403175 2008 GF_{146}	15.7	X	64.10376	172.30063	106.68042	10.68867	0.2219851	0.18546113	3.0453283	20	11 2.1	20.4
403176 2008 HR	16.6	X	67.20293	14.25328	204.27645	17.80491	0.0896027	0.18115004	3.0934546	20	7 25.1	21.3
403177 2008 HH_{4}	16.3	X	36.51308	238.83479	50.53322	11.62550	0.1242460	0.18501843	3.0501841	20	9 28.7	20.4
403178 2008 HE_{19}	16.8	X	145.49440	10.36410	235.26841	1.08180	0.0225678	0.20452877	2.8529869	20	11 30.6	20.8
403179 2008 HT_{20}	17.2	X	101.68088	207.83315	50.24707	1.81652	0.1708213	0.19331409	2.9622864	20	11 5.2	22.0
403180 2008 HW_{54}	16.8	X	147.14096	6.09208	186.40415	4.22729	0.1065125	0.18914882	3.0056169	20	9 26.9	21.6
403181 2008 HM_{58}	17.1	X	79.95571	332.20302	308.25062	1.18732	0.2929022	0.19131925	2.9828421	20	11 21.7	22.0
403182 2008 HY_{64}	16.0	X	15.13229	218.33450	101.36270	7.25147	0.2040441	0.18138812	3.0907473	20	10 13.9	19.6
403183 2008 JS_{7}	16.7	X	72.47312	201.95920	52.76325	1.25139	0.2661041	0.18306138	3.0718845	20	10 13.3	21.4
403184 2008 JP_{16}	16.1	X	8.24981	239.01540	103.49203	6.27747	0.1671074	0.18627811	3.0364176	20	10 27.5	19.7
403185 2008 JC_{22}	16.5	X	106.99011	162.21164	79.82436	9.19613	0.0927261	0.18996337	2.9970188	20	10 19.6	21.1
403186 2008 JG_{35}	16.2	X	37.36674	139.13016	154.98348	24.82013	0.2604667	0.17888515	3.1195111	20	10 25.7	20.7
403187 2008 JC_{36}	16.4	X	16.76023	244.49403	106.72793	4.29237	0.1414388	0.18899214	3.0072778	20	11 16.9	20.2
403188 2008 JV_{36}	16.3	X	99.28374	117.02155	160.17563	9.52777	0.0985956	0.19310881	2.9643853	20	11 21.9	20.9
403189 2008 KN_{22}	16.6	X	51.56835	138.72250	165.70065	5.94928	0.1923302	0.18604141	3.0389925	20	11 12.3	20.9
403190 2008 KO_{31}	16.4	X	349.34271	261.89260	100.47229	11.46423	0.0791488	0.18827888	3.0148681	20	10 18.9	20.4
403191 2008 KN_{33}	16.0	X	282.36506	223.77417	132.83517	9.51348	0.0462680	0.17160281	3.2071538	20	6 30.8	20.5
403192 2008 KM_{39}	16.6	X	22.67427	141.45504	177.33910	11.73758	0.1699726	0.18159847	3.0883601	20	10 18.4	20.4
403193 2008 KX_{40}	15.9	X	69.88185	165.04361	112.59266	13.04829	0.1398238	0.18548831	3.0450308	20	10 28.9	20.6
403194 2008 LF_{4}	16.5	X	35.77565	139.48257	171.78945	11.91325	0.2244776	0.18258972	3.0771724	20	11 6.1	20.7
403195 2008 LN_{12}	16.8	X	331.93988	196.06205	157.71545	5.99668	0.1422974	0.17182454	3.2043941	20	8 30.4	20.3
403196 2008 PL_{9}	14.9	X	71.72586	57.61416	131.26538	15.95628	0.0621204	0.15462064	3.4378828	20	6 23.5	19.9
403197 2008 QS_{21}	15.7	X	8.44915	210.88378	188.18372	13.87953	0.3229218	0.17819677	3.1275397	20	—	—
403198 2008 RV_{24}	16.8	X	303.36783	279.54328	359.18929	30.70817	0.2984719	0.31274553	2.1495224	20	3 8.7	19.7
403199 2008 RC_{56}	15.2	X	352.28272	314.99209	327.77962	15.26659	0.1239151	0.15415129	3.4448576	20	7 3.2	19.6
403200 2008 SL_{59}	15.6	X	121.88896	22.37251	79.06796	3.92339	0.1856837	0.12578833	3.9449590	20	5 19.2	21.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
403201 2008 SY_{68}	16.8	X	10.90893	349.64477	352.55667	4.55138	0.1382202	0.17083826	3.2167153	20	10 20.0	20.7
403202 2008 SS_{91}	15.9	X	349.92833	198.44689	196.88158	15.52288	0.1841906	0.17059111	3.2198214	20	11 28.8	19.7
403203 2008 SP_{197}	18.7	X	233.42795	214.84991	169.57112	3.44096	0.1691872	0.30797079	2.1716827	20	5 24.1	21.7
403204 2008 ST_{200}	18.2	X	36.66911	148.18065	6.72113	5.15725	0.0650822	0.29037118	2.2585708	20	3 10.9	20.5
403205 2008 SC_{256}	18.7	X	212.19053	348.07248	69.98112	0.80808	0.1183487	0.31141777	2.1556279	20	6 20.1	21.3
403206 2008 TA_{8}	18.2	X	342.88303	234.26551	37.68325	5.08437	0.1895389	0.31540734	2.1374117	20	5 23.8	19.2
403207 2008 TT_{19}	17.4	X	265.36153	0.68520	215.53901	4.78062	0.1551621	0.27351612	2.3504306	20	—	—
403208 2008 TQ_{32}	18.5	X	233.27336	157.15662	151.07827	2.26973	0.1913126	0.29602592	2.2297160	20	2 12.4	21.8
403209 2008 TW_{52}	17.5	X	238.35071	181.68832	27.76178	6.54753	0.0428996	0.27060917	2.3672332	20	—	—
403210 2008 TS_{73}	18.8	X	232.58123	34.54739	8.77260	2.61771	0.1051242	0.31084910	2.1582561	20	6 25.5	21.5
403211 2008 TP_{97}	18.8	X	190.61704	71.13232	339.25357	6.58272	0.0962849	0.30579294	2.1819816	20	5 13.6	21.9
403212 2008 TQ_{112}	17.8	X	251.07612	36.96101	336.82018	5.24181	0.1547180	0.31154432	2.1550441	20	5 29.1	20.7
403213 2008 TU_{161}	18.5	X	195.06875	336.28259	82.36522	1.94536	0.1324282	0.30615092	2.1802803	20	5 31.9	21.4
403214 2008 TX_{171}	18.3	X	156.84556	111.18658	252.75559	3.99339	0.1606272	0.28709853	2.2757021	20	2 10.7	21.7
403215 2008 TE_{183}	18.6	X	302.54946	3.02512	320.79902	3.16401	0.1823122	0.31542695	2.1373231	20	5 25.1	20.5
403216 2008 US_{11}	18.4	X	0.86779	273.46228	318.24972	4.59756	0.0828533	0.30537513	2.1839714	20	4 30.2	20.5
403217 2008 UX_{71}	18.3	X	212.92555	33.84189	349.05597	5.23722	0.1528509	0.30089151	2.2056136	20	4 28.9	21.7
403218 2008 UQ_{81}	18.4	X	116.91207	33.05716	77.23214	3.67492	0.1301963	0.29874276	2.2161771	20	5 16.9	21.2
403219 2008 US_{105}	18.5	X	210.52019	283.69908	121.67984	2.39613	0.1325926	0.30644649	2.1788782	20	5 30.6	21.6
403220 2008 UN_{125}	18.0	X	153.85962	161.27995	264.86204	7.38583	0.1008868	0.29397884	2.2400549	20	4 23.5	21.1
403221 2008 UN_{145}	19.2	X	217.26143	330.59254	62.39709	3.90278	0.1406359	0.30438618	2.1886993	20	5 19.9	22.4
403222 2008 US_{151}	18.5	X	190.88369	184.75954	237.04801	1.23073	0.0589616	0.30281807	2.1962487	20	6 2.6	21.1
403223 2008 US_{204}	18.1	X	224.96681	46.72368	334.89957	4.44331	0.1849866	0.30658986	2.1781988	20	5 7.6	21.5
403224 2008 UJ_{211}	18.7	X	272.14455	324.76162	25.35983	2.69442	0.0960070	0.30958187	2.1641417	20	6 1.9	21.0
403225 2008 UT_{221}	18.2	X	135.11109	81.92368	3.87605	5.02541	0.1047143	0.29460052	2.2369024	20	4 29.7	21.3
403226 2008 UP_{224}	18.3	X	133.59319	143.79371	302.86471	4.88806	0.1208573	0.29337450	2.2431301	20	4 30.3	21.5
403227 2008 UH_{229}	17.9	X	303.69786	244.23582	98.09673	2.62206	0.2373247	0.31613253	2.1341417	20	6 17.6	19.5
403228 2008 UP_{239}	17.6	X	141.15602	164.94150	285.37660	5.85088	0.1592913	0.29620278	2.2288284	20	5 18.4	20.9
403229 2008 UH_{275}	18.2	X	166.69954	198.73164	231.64575	5.91324	0.1406862	0.29870994	2.2163394	20	5 18.2	21.4
403230 2008 UO_{283}	18.2	X	78.53139	279.94175	124.15899	1.84388	0.1670341	0.27465837	2.3439094	20	—	—
403231 2008 UU_{286}	17.9	X	152.69317	8.43505	94.09475	3.72103	0.1381767	0.30294461	2.1956371	20	6 16.4	21.0
403232 2008 UC_{328}	18.3	X	169.31211	142.88047	315.42506	4.21520	0.0451618	0.31105383	2.1573090	20	6 28.3	21.0
403233 2008 UM_{338}	18.0	X	294.95796	28.68508	271.69937	4.06282	0.1701350	0.30207543	2.1998469	20	4 7.9	20.7
403234 2008 UX_{343}	17.5	X	213.80924	29.32237	258.21452	8.68513	0.1419205	0.27961467	2.3161290	20	1 2.1	21.0
403235 2008 UL_{351}	17.9	X	348.69735	184.68407	40.65044	4.04358	0.0968710	0.29721300	2.2237750	20	3 31.5	20.0
403236 2008 UU_{353}	18.0	X	72.74443	72.96916	72.39246	5.30351	0.0975482	0.29053033	2.2577459	20	5 1.3	20.3
403237 2008 VE_{11}	15.2	X	152.97096	357.38558	77.58852	11.12322	0.2922169	0.12421711	3.9781556	20	5 20.5	22.0
403238 2008 VD_{16}	17.9	X	26.49760	117.53695	51.38388	6.40059	0.0930814	0.28958770	2.2626427	20	3 17.9	20.0
403239 2008 VK_{67}	18.1	X	26.27197	36.38238	106.73172	6.81404	0.0503936	0.27965020	2.3159328	20	2 7.6	20.6
403240 2008 VH_{70}	15.2	X	184.96834	327.90303	71.71321	4.60466	0.1396511	0.12628715	3.9345639	20	5 1.6	21.3
403241 2008 VK_{80}	17.8	X	1.78163	47.90130	89.50648	10.34107	0.1489945	0.26107968	2.4244915	20	—	—
403242 2008 WD_{31}	18.1	X	275.60461	258.75528	49.24915	4.36168	0.2632963	0.29951408	2.2123706	20	3 17.9	21.3
403243 2008 WY_{31}	17.9	X	75.57068	208.91738	296.79296	2.15991	0.0867876	0.28969697	2.2620737	20	5 1.9	20.2
403244 2008 WE_{34}	17.7	X	235.73148	35.06067	217.44351	2.43778	0.1445777	0.27787784	2.3257701	20	—	—
403245 2008 WP_{136}	17.7	X	187.58119	15.99394	37.25588	5.82417	0.1300022	0.29821455	2.2187932	20	5 15.7	20.9
403246 2008 XT	17.6	X	176.00084	25.19883	30.87311	6.80609	0.1730271	0.29761053	2.2217943	20	5 7.9	21.1
403247 2008 XO_{2}	19.2	X	291.81563	197.05929	39.07818	9.47219	0.3171285	0.45009787	1.6862867	20	—	—
403248 2008 XU_{12}	18.4	X	186.71744	293.83250	143.26760	5.76649	0.1205623	0.30333784	2.1937392	20	6 18.0	21.6
403249 2008 XO_{51}	17.9	X	29.45566	230.58679	291.35243	4.59877	0.0749308	0.28384240	2.2930730	20	3 6.8	20.3
403250 2008 YC	17.7	X	125.76281	348.15058	107.05186	6.29600	0.0537421	0.28966267	2.2622523	20	4 29.4	20.6
403251 2008 YC_{10}	17.0	X	33.58314	30.67283	93.92983	6.91041	0.0598834	0.27046497	2.3680745	20	1 25.3	19.5
403252 2008 YR_{10}	17.5	X	40.77151	57.57727	80.61100	6.17822	0.0734252	0.28076478	2.3097996	20	2 26.4	19.9
403253 2008 YF_{16}	17.7	X	139.19648	347.15502	106.88998	8.84868	0.1489410	0.29000618	2.2604655	20	5 23.9	21.0
403254 2008 YL_{18}	17.8	X	289.38463	107.80935	108.30881	3.99257	0.1604547	0.26188482	2.4195197	20	—	—
403255 2008 YP_{44}	17.8	X	341.54524	242.51150	317.91828	5.45419	0.0262496	0.27617833	2.3353017	20	2 21.0	20.3
403256 2008 YH_{47}	16.8	X	351.79553	61.39331	95.12150	7.46786	0.0682094	0.26724545	2.3870554	20	1 3.8	19.3
403257 2008 YL_{65}	18.7	X	179.83702	177.67866	227.97710	2.06611	0.1885770	0.29041005	2.2583693	20	4 29.1	22.3
403258 2008 YH_{78}	18.3	X	158.01100	247.13825	163.10494	3.62605	0.1580273	0.28456678	2.2891798	20	4 14.7	21.6
403259 2008 YR_{79}	17.2	X	132.03095	326.72166	137.72994	7.53195	0.0568498	0.28717266	2.2753104	20	5 21.0	20.2
403260 2008 YE_{80}	17.4	X	303.10667	72.71552	140.79139	4.93850	0.0924236	0.26438021	2.4042710	20	1 9.3	20.6
403261 2008 YE_{105}	17.5	X	224.45008	34.83277	290.27520	6.58170	0.1392446	0.27870624	2.3211592	20	2 26.2	21.1
403262 2008 YF_{126}	18.2	X	128.54347	11.37988	83.88747	2.47003	0.0872271	0.28668034	2.2779146	20	5 5.3	21.1
403263 2008 YC_{137}	17.7	X	325.68097	87.94117	93.10528	6.75910	0.0850058	0.26702057	2.3883954	20	—	—
403264 2008 YD_{137}	17.0	X	68.05977	85.43874	70.48099	2.82586	0.0797234	0.28579875	2.2825966	20	5 5.9	19.4
403265 2008 YQ_{144}	18.1	X	233.37876	124.14336	239.55226	3.40697	0.1306088	0.29158681	2.2522891	20	4 27.9	21.3
403266 2008 YE_{145}	17.9	X	97.07049	321.10142	137.68466	6.52387	0.0435192	0.27797607	2.3252221	20	3 24.2	20.6
403267 2008 YW_{150}	17.6	X	205.56993	255.73248	114.91845	7.56579	0.1319819	0.28821290	2.2698323	20	4 12.3	21.1
403268 2008 YZ_{150}	18.2	X	50.56536	9.11579	154.25642	2.32242	0.1341554	0.28164037	2.3050098	20	4 26.3	20.3
403269 2008 YB_{154}	17.1	X	256.11528	305.36356	322.41226	7.99605	0.0929981	0.26731959	2.3866140	20	1 24.9	20.4
403270 2008 YR_{165}	18.0	X	335.73325	197.08246	321.72577	1.33574	0.1332871	0.26223184	2.4173847	20	—	—
403271 2009 AM_{2}	17.5	X	8.57022	200.24207	302.38649	7.29762	0.1535097	0.26627745	2.3928370	20	1 2.0	19.6
403272 2009 AJ_{10}	18.2	X	141.74909	222.82329	200.61107	1.59230	0.1566064	0.28551446	2.2841115	20	4 14.0	21.3
403273 2009 AT_{14}	17.5	X	10.28206	62.62688	110.14868	2.92152	0.1330871	0.27149485	2.3620821	20	2 20.7	19.7
403274 2009 AY_{22}	17.4	X	322.78419	276.04941	310.59471	6.39940	0.0789824	0.27586174	2.3370880	20	2 21.9	20.0
403275 2009 AO_{39}	18.2	X	131.04351	324.37978	135.07017	4.81064	0.1179108	0.28783942	2.2717953	20	5 18.6	21.3
403276 2009 AB_{41}	17.3	X	35.23662	198.62454	300.37685	6.31671	0.0723177	0.27241780	2.3567439	20	2 14.7	19.7
403277 2009 AD_{46}	16.8	X	244.98171	10.33870	285.47620	4.24888	0.1483200	0.27022748	2.3694618	20	2 11.2	20.3
403278 2009 AV_{46}	17.7	X	230.58746	185.22053	104.48347	4.84614	0.0732377	0.26924857	2.3752014	20	1 25.1	20.9
403279 2009 BJ_{20}	17.3	X	313.37786	201.13955	325.96382	1.79350	0.1461078	0.25764332	2.4460019	20	—	—
403280 2009 BD_{22}	17.8	X	185.97342	276.05550	101.89582	7.34461	0.2067670	0.28281158	2.2986416	20	4 3.8	21.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
403281 2009 BJ_{23}	17.8	X	341.52661	175.48867	351.81014	6.00985	0.2067364	0.26123291	2.4235434	20	—	—
403282 2009 BF_{27}	17.7	X	257.21968	15.52910	325.95935	8.49974	0.1568094	0.29080024	2.2563486	20	4 18.0	21.1
403283 2009 BA_{36}	17.2	X	195.00578	261.52464	112.42525	8.39140	0.0813759	0.28085439	2.3093082	20	4 6.8	20.5
403284 2009 BH_{44}	18.0	X	163.53898	127.74510	314.30489	3.79640	0.1621060	0.28952884	2.2629493	20	5 30.7	21.6
403285 2009 BC_{51}	18.1	X	46.40526	201.35192	320.33245	5.45243	0.1004295	0.27813680	2.3243262	20	4 7.5	20.5
403286 2009 BL_{56}	17.4	X	160.20827	323.64008	140.52479	4.12834	0.1166758	0.29134015	2.2535602	20	6 25.7	20.6
403287 2009 BD_{62}	17.6	X	93.69775	109.91362	329.86172	6.80724	0.1573253	0.27078238	2.3662236	20	3 7.9	20.4
403288 2009 BC_{64}	17.7	X	143.67112	120.09712	334.69011	7.64598	0.0825231	0.29003888	2.2602956	20	5 19.9	20.9
403289 2009 BU_{72}	18.0	X	75.81780	333.54458	123.50909	3.32526	0.2003956	0.27189084	2.3597880	20	3 14.7	20.3
403290 2009 BO_{75}	17.0	X	307.28690	74.70432	93.36235	7.01857	0.0741929	0.25701197	2.4500060	20	—	—
403291 2009 BX_{86}	18.7	X	168.70883	84.98428	2.65437	0.99910	0.1921537	0.29390577	2.2404262	20	6 13.3	22.1
403292 2009 BW_{96}	17.2	X	76.55294	194.82109	334.78953	6.35789	0.0258019	0.28954543	2.2628629	20	5 28.4	20.0
403293 2009 BQ_{104}	18.2	X	108.15926	285.24264	147.69322	1.78573	0.1523245	0.27392553	2.3480880	20	3 19.3	21.1
403294 2009 BD_{107}	17.1	X	323.36926	77.91809	96.61504	3.51108	0.1548742	0.25741015	2.4474788	20	—	—
403295 2009 BX_{108}	17.8	X	77.70647	345.51631	108.05386	3.10278	0.1858303	0.26982118	2.3718398	20	3 10.7	20.3
403296 2009 BC_{109}	17.6	X	242.19429	241.18900	310.60327	3.52333	0.2195127	0.24283069	2.5444876	20	—	—
403297 2009 BF_{116}	17.0	X	202.01897	68.42364	119.87285	7.13369	0.0539198	0.23709060	2.5853926	20	12 1.7	20.6
403298 2009 BJ_{144}	18.2	X	101.13451	356.99380	131.27374	4.54116	0.1553337	0.28385885	2.2929844	20	5 26.8	21.2
403299 2009 BR_{158}	17.4	X	328.34122	231.88249	320.29705	3.77703	0.1704089	0.26057563	2.4276171	20	1 4.0	20.2
403300 2009 BH_{162}	17.7	X	288.24193	36.80659	76.43560	2.76912	0.0253844	0.23770479	2.5809371	20	12 20.3	20.9
403301 2009 BL_{164}	18.3	X	94.28308	117.44213	342.09795	6.34519	0.0366366	0.27505854	2.3416355	20	3 16.8	21.1
403302 2009 BT_{173}	17.0	X	107.13567	54.33522	359.22734	11.94798	0.1010358	0.25970030	2.4330689	20	2 18.1	20.1
403303 2009 BA_{175}	18.0	X	175.47652	67.07918	324.37618	2.57979	0.2060471	0.27882267	2.3205129	20	4 6.9	21.8
403304 2009 BH_{182}	16.9	X	354.96517	193.96097	322.69606	12.20571	0.1091915	0.26494162	2.4008734	20	1 6.1	19.6
403305 2009 BZ_{184}	17.0	X	66.50842	21.13455	210.52580	6.05361	0.0202023	0.29976986	2.2111120	20	8 13.7	19.6
403306 2009 BP_{190}	17.1	X	266.49646	173.07347	12.65717	7.17849	0.1499289	0.24653563	2.5189309	20	—	—
403307 2009 CR_{6}	17.8	X	91.84425	307.68171	136.24823	7.09472	0.0964106	0.27125286	2.3634867	20	3 4.1	20.4
403308 2009 CD_{18}	16.9	X	19.47581	237.20322	281.84889	5.81514	0.0391270	0.27024320	2.3693699	20	2 17.7	19.7
403309 2009 CE_{27}	17.1	X	234.45264	321.29860	352.56020	6.86064	0.1257982	0.26992043	2.3712584	20	2 27.1	20.6
403310 2009 CA_{29}	18.1	X	64.90681	89.00826	17.16162	1.71507	0.1408574	0.26950872	2.3736727	20	2 27.6	20.4
403311 2009 CC_{29}	17.5	X	209.74945	238.10473	336.99858	11.23719	0.2049029	0.23655849	2.5892681	20	12 24.9	21.6
403312 2009 CH_{29}	17.5	X	190.05830	112.44914	1.79479	3.02343	0.1760621	0.21417221	2.7666909	20	8 4.4	22.0
403313 2009 CS_{29}	18.3	X	153.97518	344.60300	67.02119	2.34204	0.1966193	0.28067555	2.3102891	20	4 14.9	21.8
403314 2009 CX_{32}	17.8	X	143.71078	13.81682	44.05469	2.05048	0.1708503	0.27754425	2.3276333	20	4 10.8	21.3
403315 2009 CG_{43}	16.7	X	114.19759	193.92893	347.17283	7.18517	0.0790112	0.29797262	2.2199940	20	8 18.6	19.6
403316 2009 CF_{45}	17.9	X	77.75658	277.95537	177.62134	2.14796	0.1741181	0.27209640	2.3585994	20	3 9.6	20.3
403317 2009 CW_{59}	17.4	X	273.83999	43.06988	124.84528	12.67998	0.2140719	0.24252843	2.5466012	20	—	—
403318 2009 CK_{62}	17.3	X	188.88598	345.72103	325.70627	6.18144	0.0973311	0.25718954	2.4488782	20	1 10.3	20.9
403319 2009 DU_{14}	17.8	X	170.33720	259.17208	334.47728	11.79213	0.2269024	0.22739163	2.6583964	20	12 6.4	22.6
403320 2009 DS_{15}	17.7	X	57.26495	6.10221	119.25501	2.53716	0.0323973	0.27101074	2.3648942	20	3 1.1	20.5
403321 2009 DW_{17}	17.8	X	103.50312	97.24545	326.83291	3.73655	0.1320949	0.26805115	2.3822697	20	2 26.5	20.7
403322 2009 DS_{19}	17.1	X	324.40365	104.05079	65.86699	10.50840	0.1748959	0.25484403	2.4638811	20	—	—
403323 2009 DZ_{20}	17.9	X	121.68001	264.43923	159.24478	2.81593	0.1375735	0.27713899	2.3299019	20	3 21.4	21.0
403324 2009 DX_{21}	17.6	X	254.23702	358.49166	318.85447	2.23173	0.1133944	0.28015383	2.3131565	20	3 21.9	20.9
403325 2009 DW_{22}	18.4	X	180.92907	349.27958	59.38415	3.73418	0.2007828	0.28951054	2.2630447	20	5 4.8	21.9
403326 2009 DU_{25}	18.1	X	174.85916	303.58830	112.97352	2.73042	0.1506295	0.28564800	2.2833996	20	5 9.3	21.6
403327 2009 DC_{33}	17.4	X	147.39690	283.80438	150.19894	4.37164	0.2164465	0.27933228	2.3176897	20	5 9.7	21.2
403328 2009 DK_{53}	16.7	X	286.21574	317.97767	12.35473	5.05371	0.1124330	0.19970094	2.8987848	20	5 21.9	20.6
403329 2009 DJ_{60}	17.5	X	35.05564	317.47705	137.79031	7.21820	0.0772228	0.25529515	2.4609777	20	—	—
403330 2009 DC_{70}	17.9	X	58.75112	156.73842	317.54720	1.55425	0.1639007	0.26920649	2.3754489	20	3 1.4	20.1
403331 2009 DP_{77}	17.5	X	47.55341	313.26078	161.44403	8.41615	0.1145142	0.26630910	2.3926474	20	2 4.2	19.8
403332 2009 DG_{85}	17.5	X	194.92073	242.89217	145.79597	6.80873	0.1196526	0.28115741	2.3076487	20	4 24.5	20.9
403333 2009 DX_{91}	17.2	X	104.45318	125.32652	139.41970	4.07894	0.1594202	0.21841560	2.7307396	20	11 19.7	21.5
403334 2009 DT_{93}	17.1	X	214.98410	170.39658	30.11937	6.47914	0.1983484	0.23179673	2.6246084	20	12 10.7	21.0
403335 2009 DE_{94}	17.7	X	41.79121	4.34854	120.91977	6.46354	0.0548531	0.26147454	2.4220501	20	2 9.5	20.5
403336 2009 DV_{112}	17.8	X	11.18964	358.72216	132.52937	2.76040	0.1473545	0.25987667	2.4319680	20	—	—
403337 2009 DB_{119}	17.9	X	298.25145	223.72156	329.72983	0.40067	0.1152809	0.25301949	2.4757117	20	—	—
403338 2009 DA_{124}	17.5	X	161.52155	270.09745	171.04849	6.57495	0.0841351	0.28295378	2.2978714	20	5 26.5	20.7
403339 2009 DF_{127}	16.9	X	118.49567	359.29515	340.35459	5.93071	0.0298149	0.24348625	2.5399183	20	—	—
403340 2009 DN_{131}	17.2	X	214.48245	182.57151	138.07400	1.73402	0.1943234	0.26352225	2.4094866	20	2 14.7	21.1
403341 2009 DH_{134}	17.3	X	248.17175	195.92229	7.66874	11.82888	0.1317147	0.24008563	2.5638460	20	—	—
403342 2009 DM_{137}	17.5	X	3.34998	314.17253	164.89295	5.10526	0.1197759	0.25144586	2.4860301	20	—	—
403343 2009 EZ_{12}	15.5	X	101.28631	224.23951	123.53092	14.74330	0.1901417	0.24299145	2.5433652	20	—	—
403344 2009 EM_{24}	17.8	X	175.98499	356.90641	343.62227	4.35057	0.0932889	0.25783465	2.4447917	20	2 1.8	21.2
403345 2009 EF_{25}	16.8	X	162.47401	166.08392	322.70237	1.18905	0.0350220	0.20403893	2.8575512	20	7 25.9	20.9
403346 2009 EY_{30}	17.2	X	146.98935	186.73097	150.89510	4.11219	0.0280164	0.24611983	2.5217671	20	—	—
403347 2009 FS_{3}	17.1	X	358.96413	205.45032	352.94134	6.53282	0.0624513	0.26824531	2.3811200	20	3 13.9	19.5
403348 2009 FB_{34}	18.1	X	114.56462	115.26489	328.57465	3.57364	0.2025222	0.27757737	2.3274481	20	4 15.4	21.3
403349 2009 FV_{55}	16.8	X	227.40772	242.10810	331.64002	29.35124	0.3002335	0.23509888	2.5999740	20	—	—
403350 2009 FY_{61}	17.1	X	272.03585	6.40551	161.35565	4.22825	0.1534916	0.23780586	2.5802058	20	—	—
403351 2009 FT_{68}	16.8	X	308.34505	99.06694	56.05932	15.72391	0.0900906	0.23967605	2.5667661	20	—	—
403352 2009 FJ_{71}	17.3	X	238.40594	303.48000	242.03551	3.40098	0.2170254	0.23220634	2.6215210	20	12 17.2	20.5
403353 2009 FH_{72}	17.3	X	123.80859	248.14934	36.27108	8.43918	0.3054019	0.21977323	2.7194820	20	12 31.1	22.4
403354 2009 FH_{74}	17.4	X	184.77929	190.56768	86.87790	0.97605	0.1038997	0.23533784	2.5982137	20	—	—
403355 2009 FY_{74}	16.8	X	199.51934	226.70918	348.65503	10.80724	0.3143378	0.22739783	2.6583480	20	12 1.3	21.6
403356 2009 FX_{75}	17.2	X	144.51747	241.22546	49.18233	4.09078	0.2433466	0.22656021	2.6648961	20	—	—
403357 2009 HP	16.1	X	201.53025	99.60248	111.20251	15.61192	0.2498495	0.22836875	2.6508079	20	12 7.5	20.5
403358 2009 HR_{3}	16.6	X	68.42155	124.71445	95.89189	7.58829	0.0360269	0.19969281	2.8988635	20	7 28.4	20.6
403359 2009 HQ_{4}	17.6	X	228.88021	61.69597	142.39814	4.51378	0.1573620	0.23466358	2.6031883	20	—	—
403360 2009 HS_{5}	16.8	X	132.65280	278.56467	44.58898	5.81883	0.0538003	0.23928007	2.5695971	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
403361 2009 HP_6	17.3	X	46.03139	23.18534	92.94001	7.60633	0.1477257	0.25792885	2.4441964	20	2 11.3	19.6
403362 2009 HE_{37}	16.5	X	218.61534	243.11080	349.00438	6.78283	0.1578989	0.23616937	2.5921114	20	—	—
403363 2009 HR_{42}	17.1	X	162.35446	124.84043	130.50155	5.01732	0.1308894	0.22498144	2.6773486	20	12 30.6	21.2
403364 2009 HB_{47}	17.8	X	210.34208	68.96109	159.55098	1.68915	0.0935922	0.23560433	2.5962542	20	—	—
403365 2009 HF_{49}	16.0	X	62.53947	53.39261	118.09364	15.87340	0.0440392	0.17991820	3.1075585	20	5 21.7	20.5
403366 2009 HJ_{53}	17.8	X	240.09116	148.90673	58.21961	3.15448	0.1090981	0.23710275	2.5853043	20	—	—
403367 2009 HN_{66}	17.1	X	230.09372	93.20211	100.69317	12.49998	0.2427468	0.22968387	2.6406797	20	12 14.4	20.9
403368 2009 HQ_{66}	18.0	X	201.30990	70.31069	150.92064	5.21407	0.1931378	0.23095893	2.6309517	20	12 23.2	22.1
403369 2009 HX_{74}	17.5	X	139.88320	258.69433	48.64984	3.98598	0.1253798	0.23140141	2.6275967	20	—	—
403370 2009 HG_{75}	16.7	X	191.60781	136.76987	88.92422	12.76737	0.1396597	0.22541166	2.6739408	20	12 23.0	20.7
403371 2009 HC_{79}	16.9	X	296.77751	102.36796	57.86235	4.83178	0.0391700	0.23615735	2.5921994	20	—	—
403372 2009 HO_{80}	16.9	X	320.53385	48.72089	135.24206	7.26117	0.0821078	0.25123872	2.4873964	20	—	—
403373 2009 HS_{80}	16.5	X	258.43337	49.55031	121.74793	14.00090	0.1270195	0.23294364	2.6159863	20	—	—
403374 2009 HN_{96}	17.3	X	123.50441	143.77933	158.41534	6.66309	0.1276417	0.22267751	2.6957844	20	—	—
403375 2009 HX_{103}	17.1	X	358.10110	300.39900	162.61885	9.71077	0.1633961	0.23816445	2.5776152	20	—	—
403376 2009 JB_{10}	17.2	X	332.79021	31.52665	111.71953	9.32458	0.1405779	0.24553323	2.5257820	20	—	—
403377 2009 JD_{12}	17.0	X	226.49323	119.63295	86.52353	12.55233	0.2090750	0.23023820	2.6364394	20	12 29.2	20.5
403378 2009 KC_{11}	16.6	X	162.36023	130.21754	103.47799	15.30476	0.1524230	0.21871254	2.7282674	20	12 5.2	21.1
403379 2009 KU_{21}	15.4	X	293.97914	235.93345	106.21645	23.54880	0.1205344	0.17341518	3.1847693	20	6 19.1	19.8
403380 2009 MF_9	16.0	X	350.68601	204.48955	124.83040	16.42504	0.2910342	0.18237533	3.0795835	20	9 14.9	18.8
403381 2009 OQ_{18}	16.1	X	343.95715	34.31796	315.83447	10.76879	0.0918404	0.18276517	3.0752028	20	9 13.3	20.0
403382 2009 PS_4	16.1	X	0.49027	39.83113	314.82429	8.70948	0.1169688	0.18706595	3.0278862	20	10 17.9	20.0
403383 2009 PO_{19}	17.0	X	26.03764	317.54660	48.36446	1.22499	0.1867961	0.19254971	2.9701209	20	12 24.7	20.9
403384 2009 PS_{20}	15.7	X	42.44948	306.45550	338.95333	15.24513	0.1930020	0.18633428	3.0358074	20	10 1.0	19.8
403385 2009 PX_{20}	15.7	X	306.90191	131.38726	268.01019	15.74638	0.1523113	0.17991900	3.1075493	20	9 8.0	19.8
403386 2009 QM_{11}	16.7	X	5.25695	201.48656	198.97302	5.13992	0.1480821	0.19664461	2.9287436	20	—	—
403387 2009 QQ_{13}	15.5	X	352.36161	18.94081	338.63336	14.77200	0.1791502	0.18213183	3.0823277	20	10 9.1	19.1
403388 2009 QB_{14}	16.1	X	69.05286	277.64252	338.11528	11.45402	0.0383705	0.17738823	3.1370361	20	9 8.6	20.4
403389 2009 QZ_{14}	15.8	X	350.57863	5.91910	344.40477	9.28071	0.0411612	0.18003678	3.1061938	20	9 24.2	20.0
403390 2009 QD_{46}	15.8	X	1.26336	350.73467	348.07576	9.71508	0.0766560	0.18240300	3.0792721	20	9 26.9	19.8
403391 2009 QH_{52}	16.1	X	346.00370	20.83574	331.00495	9.20975	0.0810893	0.18087493	3.0965907	20	9 19.8	20.0
403392 2009 QE_{55}	16.3	X	10.00557	307.82884	352.11443	3.91664	0.1837382	0.17620134	3.1511077	20	8 31.6	19.7
403393 2009 QH_{56}	16.4	X	305.07542	200.07592	179.01832	9.34394	0.0772834	0.17472787	3.1687982	20	8 24.8	20.6
403394 2009 QP_{56}	16.7	X	307.50069	93.02618	359.28850	5.17290	0.1276964	0.19211357	2.9746144	20	12 1.4	20.2
403395 2009 QA_{59}	15.5	X	211.08470	109.66011	6.56057	9.60504	0.0285849	0.17510402	3.1642587	20	9 6.6	20.1
403396 2009 QW_{61}	16.3	X	11.00569	323.20750	344.74294	2.94526	0.1585682	0.17775738	3.1326915	20	9 10.2	19.8
403397 2009 QQ_{62}	16.2	X	18.56237	209.34161	151.09579	12.98534	0.1788133	0.19010647	2.9955147	20	12 7.8	20.2
403398 2009 RO_{22}	16.7	X	309.70978	76.64607	322.29044	15.97214	0.2990812	0.17943377	3.1131492	20	8 29.1	19.8
403399 2009 RU_{25}	15.9	X	264.45703	30.95813	53.72199	6.13845	0.1763162	0.17239837	3.1972795	20	9 11.9	20.4
403400 2009 RX_{36}	15.7	X	247.27077	143.32808	316.20819	10.80714	0.0315588	0.18112979	3.0936853	20	9 22.9	20.2
403401 2009 RW_{44}	16.6	X	299.95888	43.12510	353.51031	4.95772	0.2298690	0.17211382	3.2008026	20	8 21.7	20.3
403402 2009 RR_{45}	16.1	X	54.59037	113.22128	201.34721	9.18713	0.1667327	0.18659767	3.0329499	20	11 24.1	20.5
403403 2009 RT_{48}	16.3	X	323.15877	164.21410	196.56931	5.15194	0.1247597	0.17163419	3.2067629	20	8 23.9	20.2
403404 2009 RX_{50}	16.5	X	337.07518	204.47804	159.06508	0.43889	0.1722192	0.17557071	3.1586487	20	9 22.4	19.9
403405 2009 RM_{66}	15.6	X	69.46939	331.85154	320.99246	8.94958	0.0498150	0.18682298	3.0305109	20	10 25.3	20.1
403406 2009 RK_{71}	16.5	X	301.07019	72.63676	338.41340	8.97015	0.2202264	0.17661594	3.1461744	20	9 11.9	20.1
403407 2009 SQ_{14}	16.4	X	32.23162	357.60589	326.71328	7.30737	0.0734647	0.18463053	3.0544548	20	10 20.9	20.6
403408 2009 SM_{16}	16.4	X	343.98225	29.14964	334.19148	2.76943	0.0726549	0.18252424	3.0779084	20	10 3.7	20.3
403409 2009 SO_{17}	15.7	X	28.56266	332.99479	338.47409	9.00938	0.0571696	0.17893100	3.1189781	20	9 27.5	20.0
403410 2009 SA_{24}	16.3	X	41.71554	44.96555	254.50391	4.08463	0.1243280	0.18192969	3.0846105	20	10 10.9	20.4
403411 2009 SF_{24}	15.9	X	15.28851	7.67493	323.14637	6.49543	0.1274504	0.18171459	3.0870442	20	10 11.7	19.8
403412 2009 SZ_{35}	16.1	X	308.75146	50.16853	5.08482	8.32626	0.1554273	0.17828170	3.1265463	20	10 9.8	19.7
403413 2009 SV_{64}	17.1	X	301.97547	230.66950	184.86721	0.93535	0.3058365	0.17941715	3.1133414	20	9 7.5	20.6
403414 2009 SU_{72}	15.9	X	341.60576	353.16266	346.70234	8.29349	0.0772862	0.17474775	3.1685579	20	8 31.0	19.8
403415 2009 SU_{75}	16.1	X	34.95599	223.34579	80.45688	6.49151	0.1247751	0.17644047	3.1482599	20	10 11.1	20.3
403416 2009 SO_{76}	16.3	X	294.81931	320.60598	78.71518	6.69111	0.0350845	0.17137637	3.2099782	20	9 15.0	20.8
403417 2009 SX_{78}	16.0	X	273.66286	92.80555	342.38313	11.99129	0.2793466	0.17382548	3.1797557	20	8 25.8	20.4
403418 2009 SM_{92}	16.2	X	328.44634	15.06939	327.89700	7.42250	0.0522745	0.17124891	3.2115709	20	8 15.4	20.4
403419 2009 SA_{96}	16.3	X	49.39315	279.88497	18.78837	9.85396	0.0538933	0.18043172	3.1016595	20	10 11.4	20.5
403420 2009 SZ_{100}	16.5	X	355.73516	40.33682	336.71353	12.37887	0.0800263	0.18643290	3.0347366	20	11 4.4	20.7
403421 2009 SZ_{111}	15.9	X	277.10889	170.08832	258.79843	4.24485	0.1566557	0.17531219	3.1617533	20	9 6.4	20.3
403422 2009 SJ_{113}	16.7	X	353.99377	69.98537	291.73998	4.28356	0.0932693	0.18183903	3.0856356	20	10 16.3	20.7
403423 2009 SL_{115}	15.8	X	307.55813	40.02210	352.41670	10.23630	0.0722413	0.17617517	3.1514198	20	9 16.8	20.0
403424 2009 SK_{116}	16.6	X	16.80188	317.61915	343.98875	9.46324	0.0902031	0.17781187	3.1320514	20	9 4.4	20.6
403425 2009 SO_{122}	16.9	X	341.20303	143.08663	221.15637	1.72325	0.1263949	0.18220821	3.0814663	20	10 1.8	20.4
403426 2009 SS_{129}	16.8	X	10.07158	247.00081	87.50134	2.33440	0.1904506	0.17930015	3.1146957	20	10 19.4	20.2
403427 2009 ST_{130}	16.0	X	318.24140	351.28255	30.94594	11.99902	0.0852256	0.17450682	3.1714737	20	9 22.9	20.1
403428 2009 SJ_{132}	16.7	X	1.57183	289.85159	79.68935	2.93431	0.1102820	0.18341513	3.0679335	20	11 11.5	20.4
403429 2009 SA_{141}	16.2	X	69.99567	254.35060	349.23654	10.31279	0.0958439	0.17109311	3.2135203	20	9 4.1	20.7
403430 2009 ST_{175}	15.7	X	175.49545	158.72980	5.32896	8.44549	0.0257702	0.17927334	3.1150061	20	9 22.6	20.1
403431 2009 SD_{183}	16.2	X	352.50992	11.57380	338.50622	8.35526	0.0824695	0.17645294	3.1481116	20	9 27.1	20.3
403432 2009 SK_{183}	16.0	X	201.11269	100.01156	345.84550	10.92335	0.1482187	0.15565920	3.4225741	20	7 10.4	21.6
403433 2009 SZ_{183}	16.1	X	100.47206	301.76425	349.14629	9.28659	0.0791948	0.18925533	3.0044891	20	12 3.1	20.8
403434 2009 SG_{185}	16.1	X	224.91971	144.38501	359.86666	12.13260	0.0426351	0.18045503	3.1013924	20	10 20.7	20.6
403435 2009 SM_{192}	16.1	X	342.22787	47.89295	336.13232	12.28187	0.1886016	0.18370293	3.0647285	20	10 27.1	19.7
403436 2009 SL_{206}	16.1	X	63.07996	320.05449	346.35945	8.39560	0.1004985	0.18753603	3.0228243	20	11 11.5	20.5
403437 2009 SW_{212}	16.9	X	10.36268	153.32321	184.16805	3.65256	0.2689705	0.18063488	3.0993335	20	11 4.4	20.2
403438 2009 SF_{213}	15.6	X	21.99469	289.56926	29.10052	11.24761	0.1198552	0.17675595	3.1445128	20	10 9.2	19.5
403439 2009 SA_{216}	15.8	X	359.41867	314.59498	11.03460	9.41397	0.0895887	0.17495343	3.1660741	20	9 11.0	19.7
403440 2009 SY_{229}	16.2	X	8.52209	18.04879	346.18896	6.12406	0.1265139	0.18656126	3.0333445	20	11 15.3	20.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
403441 2009 SM_{233}	15.9	X	270.05669	57.40561	18.23905	9.98449	0.2072725	0.17697205	3.1419523	20	9 4.3	20.3
403442 2009 SX_{234}	16.3	X	354.60035	279.89738	126.11358	13.57995	0.3428525	0.18721479	3.0262812	20	—	—
403443 2009 SW_{238}	16.3	X	327.99421	294.71994	129.38906	10.06481	0.3003208	0.18449949	3.0559009	20	12 1.9	18.8
403444 2009 SY_{245}	15.7	X	18.43835	211.22259	176.25457	9.06774	0.1520163	0.19273967	2.9681691	20	—	—
403445 2009 SB_{251}	15.9	X	333.68419	5.83015	6.15743	9.87256	0.0905400	0.17648012	3.1477883	20	9 28.9	19.6
403446 2009 SW_{268}	16.5	X	25.16025	138.62696	176.40530	1.28312	0.1630729	0.18034503	3.1026535	20	10 14.4	20.3
403447 2009 SQ_{273}	15.9	X	300.93043	13.59614	16.15431	10.69772	0.0872856	0.17357094	3.1828637	20	9 5.9	20.1
403448 2009 SM_{276}	16.0	X	295.78336	35.20418	21.68227	9.27746	0.0820681	0.17883780	3.1200616	20	10 2.2	20.0
403449 2009 SH_{288}	16.0	X	306.23638	30.61462	0.34640	11.14356	0.0909366	0.17305352	3.1892049	20	9 12.4	20.0
403450 2009 SP_{289}	16.0	X	351.82597	222.43700	156.29982	4.90159	0.2265799	0.18227638	3.0806979	20	11 18.7	19.1
403451 2009 SX_{293}	16.5	X	337.90824	329.18990	54.64498	8.61192	0.1582542	0.17996496	3.1070202	20	10 24.7	20.0
403452 2009 SA_{294}	16.3	X	290.54143	233.44942	149.57869	2.31942	0.0623141	0.16989093	3.2286620	20	8 12.2	20.6
403453 2009 SL_{305}	16.7	X	17.10133	208.89466	141.15203	1.67518	0.1394744	0.18671313	3.0316994	20	11 14.4	20.5
403454 2009 SU_{309}	15.7	X	40.94903	297.28971	356.14589	10.71529	0.1205578	0.17821954	3.1272733	20	10 1.2	19.8
403455 2009 ST_{318}	16.5	X	300.48776	260.22536	168.87231	5.01646	0.1291589	0.18069781	3.0986138	20	10 20.1	20.2
403456 2009 SC_{319}	15.8	X	6.22125	264.84386	134.67266	7.05031	0.0735659	0.19565157	2.9386453	20	12 24.7	19.7
403457 2009 SY_{321}	15.7	X	325.96381	3.58768	5.06527	13.98826	0.1032781	0.17462751	3.1700122	20	9 14.2	19.6
403458 2009 SE_{330}	15.9	X	347.59849	14.03777	347.38630	9.94453	0.1006568	0.18271086	3.0758121	20	10 5.6	19.8
403459 2009 SL_{332}	15.8	X	47.28963	82.70932	242.30207	9.49257	0.2571959	0.18943422	3.0025973	20	12 9.8	20.1
403460 2009 SD_{336}	16.8	X	338.29496	216.50277	172.47765	2.51470	0.2076727	0.18051788	3.1006725	20	11 1.4	19.8
403461 2009 ST_{342}	16.2	X	31.09237	240.54920	141.48227	13.81265	0.2516834	0.19185770	2.9772586	20	—	—
403462 2009 SA_{343}	15.8	X	39.08515	261.08888	38.69204	8.78458	0.0632582	0.17764255	3.1340413	20	10 2.9	20.0
403463 2009 SE_{352}	16.5	X	326.70034	96.69444	316.78937	14.34959	0.3020107	0.18316979	3.0706724	20	10 31.5	19.4
403464 2009 SG_{353}	17.0	X	303.75643	1.59439	47.83316	2.99689	0.1189893	0.17663948	3.1458949	20	9 29.8	20.8
403465 2009 SB_{363}	16.1	X	260.79358	71.57627	11.81279	10.04722	0.0358655	0.17786388	3.1314408	20	9 24.8	20.5
403466 2009 TM_{4}	16.4	X	33.38673	322.35902	5.81855	0.25593	0.1765585	0.18393543	3.0621452	20	11 14.2	20.4
403467 2009 TU_{4}	15.8	X	338.65284	226.22256	181.02054	10.98042	0.1615678	0.18503817	3.0499671	20	11 27.5	19.4
403468 2009 TZ_{7}	16.4	X	340.54313	292.97456	92.37671	6.25885	0.1452997	0.18118688	3.0930354	20	10 31.9	19.9
403469 2009 TV_{9}	15.9	X	287.70159	92.18970	338.09293	14.90890	0.2146039	0.17581662	3.1557029	20	9 14.2	19.9
403470 2009 TP_{10}	15.4	X	327.96910	255.61183	86.87443	6.94960	0.1071206	0.16976150	3.2303029	20	8 12.3	19.4
403471 2009 TT_{19}	16.7	X	328.60314	344.87946	57.54665	1.56996	0.1638989	0.17967502	3.1103618	20	10 30.2	20.0
403472 2009 TB_{27}	15.6	X	307.23528	9.63908	41.01092	18.24517	0.1925790	0.17694647	3.1422552	20	10 5.4	19.4
403473 2009 TN_{33}	15.9	X	358.52182	197.97403	152.13025	9.94971	0.1197174	0.18025213	3.1037194	20	10 15.4	19.7
403474 2009 TB_{34}	15.8	X	338.31630	127.08357	284.47307	9.39241	0.1013323	0.18878327	3.0094956	20	11 28.5	19.5
403475 2009 TP_{42}	16.5	X	314.40302	26.61246	6.54363	7.66839	0.1422724	0.17219984	3.1997366	20	9 22.1	20.2
403476 2009 UD_{3}	15.6	X	298.40701	152.96457	252.59168	9.36588	0.0760036	0.17392435	3.1785505	20	9 15.1	20.0
403477 2009 UK_{5}	15.3	X	62.23962	295.54103	355.64093	15.36131	0.0321212	0.17909524	3.1170709	20	10 10.5	19.8
403478 2009 UL_{8}	15.9	X	351.68485	230.58249	168.36334	10.12880	0.1536443	0.18746662	3.0235704	20	12 9.3	19.6
403479 2009 UQ_{20}	16.1	X	340.67472	297.14192	62.68574	5.84559	0.1674700	0.17599335	3.1535898	20	9 27.5	19.6
403480 2009 UP_{21}	16.0	X	240.00717	327.02003	116.77313	6.52991	0.1296988	0.16753910	3.2588067	20	8 17.0	20.9
403481 2009 UL_{27}	16.3	X	4.92581	146.46355	217.48105	10.47932	0.3461095	0.18113057	3.0936764	20	12 11.4	19.6
403482 2009 UP_{30}	16.7	X	1.64394	309.82058	51.83891	1.87457	0.1675669	0.17842698	3.1248489	20	11 5.5	20.4
403483 2009 UH_{38}	16.8	X	20.93885	278.97042	92.88982	1.81019	0.2007193	0.18555144	3.0443401	20	12 25.2	20.7
403484 2009 UB_{41}	17.1	X	325.47435	2.72883	47.52503	1.54362	0.1669335	0.18134714	3.0912129	20	11 3.9	20.5
403485 2009 UB_{54}	16.4	X	60.20425	304.03890	344.42742	9.01281	0.1465826	0.18446578	3.0562732	20	10 22.4	20.9
403486 2009 UX_{57}	15.8	X	357.36983	314.76501	32.54569	8.88413	0.2219466	0.17606881	3.1526887	20	10 15.3	19.1
403487 2009 UU_{61}	16.8	X	312.15703	347.20834	41.65661	9.29074	0.1459638	0.17546560	3.1599100	20	9 16.8	20.7
403488 2009 UC_{71}	16.0	X	3.50929	78.20066	295.36995	4.20226	0.1876581	0.18221691	3.0813682	20	11 26.9	19.7
403489 2009 UD_{73}	17.0	X	5.23954	169.02415	184.00977	4.56208	0.2501795	0.18487402	3.0517723	20	11 14.1	20.3
403490 2009 UJ_{73}	14.9	X	37.72012	113.45261	33.55394	9.64346	0.1994405	0.12628199	3.9346711	20	4 3.3	19.5
403491 2009 UX_{73}	16.2	X	345.16601	182.63547	201.19085	10.77120	0.2664115	0.17965581	3.1105836	20	11 13.7	19.1
403492 2009 UD_{89}	16.2	X	330.43867	307.20375	118.90346	4.32560	0.1588573	0.18270370	3.0758925	20	12 5.3	19.7
403493 2009 UE_{89}	15.8	X	33.18719	59.59463	2.76176	8.87153	0.1302933	0.19919669	2.9036747	20	—	—
403494 2009 UR_{89}	16.1	X	18.38102	350.17807	17.03020	10.09068	0.0784445	0.18317449	3.0706199	20	11 26.0	20.4
403495 2009 UM_{98}	16.2	X	11.15315	317.77772	59.50902	5.81806	0.1664454	0.18439085	3.0571012	20	12 12.1	19.9
403496 2009 UY_{131}	16.4	X	34.97779	15.56776	341.53656	11.90919	0.1239828	0.18806120	3.0171941	20	12 14.8	20.7
403497 2009 UT_{132}	15.9	X	356.13233	25.80483	346.87505	16.87054	0.2031954	0.18093214	3.0959379	20	11 6.9	19.7
403498 2009 UA_{137}	16.4	X	331.51587	35.12977	357.88957	9.83462	0.2169508	0.17654898	3.1469698	20	10 17.9	19.7
403499 2009 UK_{147}	16.6	X	346.90293	304.31200	39.27117	1.32882	0.0883692	0.16798276	3.2530663	20	9 11.8	20.6
403500 2009 VY_{14}	16.6	X	16.76074	88.14114	275.71085	3.34991	0.1714010	0.18327336	3.0695155	20	12 4.1	20.4
403501 2009 VS_{22}	16.8	X	351.36942	263.62173	138.88869	1.79993	0.1906024	0.18214509	3.0821781	20	12 14.3	20.2
403502 2009 VZ_{36}	16.9	X	348.94459	19.27871	350.80984	1.63072	0.2914131	0.17800434	3.1297933	20	11 3.1	19.6
403503 2009 VN_{59}	15.9	X	270.83240	116.00722	345.35100	15.38907	0.1979362	0.17383418	3.1796496	20	9 30.2	20.3
403504 2009 VP_{61}	16.8	X	15.75281	177.06545	178.92760	0.24807	0.1861756	0.17983425	3.1085255	20	11 24.1	20.6
403505 2009 VO_{80}	15.3	X	348.79383	217.95326	113.76252	22.53379	0.1993993	0.17242143	3.1969945	20	9 8.3	19.1
403506 2009 VY_{82}	16.3	X	342.23077	35.01423	12.20851	9.33839	0.1065738	0.18230454	3.0803807	20	11 25.9	20.3
403507 2009 VY_{91}	15.8	X	12.20992	255.70801	89.52805	13.41193	0.2132176	0.17735819	3.1373903	20	11 12.1	19.6
403508 2009 VT_{92}	15.5	X	329.42188	325.58443	65.72162	18.42195	0.2017312	0.17767552	3.1336536	20	10 23.4	19.0
403509 2009 WQ_{5}	15.5	X	306.76410	315.03273	83.53276	12.68328	0.2833421	0.17383342	3.1796589	20	9 2.7	19.2
403510 2009 WJ_{52}	15.5	X	47.14876	10.59650	12.16077	9.61520	0.1200025	0.19206875	2.9750772	20	—	—
403511 2009 WY_{89}	17.0	X	165.57818	216.57993	127.78818	4.03634	0.1099295	0.21094545	2.7948335	20	2 1.8	21.1
403512 2009 WT_{118}	16.7	X	1.07441	128.46081	225.59621	0.20943	0.1745479	0.17529724	3.1619330	20	10 25.3	20.3
403513 2009 WG_{120}	16.8	X	357.58136	303.76655	81.49471	0.45566	0.1641222	0.18021162	3.1041844	20	11 29.2	20.3
403514 2009 WW_{236}	16.6	X	326.02589	292.84908	91.97616	2.18873	0.1558343	0.17029334	3.2235737	20	9 30.7	20.2
403515 2009 XZ_{15}	15.0	X	129.99161	171.40645	278.04513	7.80738	0.1281059	0.12457873	3.9704536	20	5 5.7	21.1
403516 2010 AN_{3}	15.0	X	323.54985	305.56197	136.67518	27.42920	0.3828682	0.17681469	3.1438163	20	12 14.9	17.7
403517 2010 AR_{3}	17.3	X	301.96583	78.71840	81.68155	6.30087	0.0866909	0.27914027	2.3187525	20	—	—
403518 2010 AR_{101}	17.0	X	24.02611	194.01834	130.35839	5.39780	0.2771001	0.18242777	3.0789934	20	11 13.1	20.8
403519 2010 BJ_{61}	17.0	X	176.78618	329.54905	298.61016	6.62944	0.1844482	0.25372397	2.4711269	20	—	—
403520 2010 CS_{6}	17.2	X	249.85365	179.27041	124.27550	10.58946	0.2735741	0.27632764	2.3344603	20	2 19.7	21.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
403521 2010 CH_{70}	15.2	X	151.52963	121.93157	313.27053	6.88340	0.1397815	0.12605095	3.9394775	20	5 9.8	21.4
403522 2010 CB_{83}	15.4	X	133.50030	298.85658	150.01115	3.25828	0.1602940	0.12307653	4.0026956	20	5 13.7	21.5
403523 2010 CN_{150}	17.3	X	298.06448	84.26215	333.29243	16.57343	0.0540942	0.34563671	2.0108954	20	11 6.5	19.7
403524 2010 DD_{3}	17.8	X	186.59008	104.93996	171.84775	1.33540	0.1711555	0.26885303	2.3775305	20	—	—
403525 2010 DF_{45}	17.6	X	277.28364	295.84824	317.76063	5.68493	0.2057845	0.28318122	2.2966408	20	1 16.4	21.0
403526 2010 ES_{36}	18.0	X	266.32670	15.52134	184.06065	5.06673	0.1662002	0.26909162	2.3761249	20	—	—
403527 2010 EC_{78}	17.5	X	202.32590	279.71371	17.50448	7.43000	0.1186186	0.27678463	2.3318901	20	1 4.3	21.0
403528 2010 ES_{101}	17.6	X	189.39575	91.35185	181.15857	3.07048	0.1734961	0.26092173	2.4254699	20	—	—
403529 2010 ED_{127}	17.8	X	326.35785	91.86831	140.53837	7.01361	0.1685347	0.28943877	2.2634188	20	2 21.1	19.9
403530 2010 EJ_{131}	17.9	X	349.98590	143.96568	44.49352	7.06044	0.0415513	0.28520320	2.2857731	20	2 18.1	20.6
403531 2010 FN_{1}	17.9	X	295.93023	204.82824	29.50408	6.31628	0.1505662	0.28473114	2.2882988	20	1 18.4	21.0
403532 2010 FG_{88}	17.9	X	351.67074	222.54321	44.88257	3.77971	0.1530598	0.30477186	2.1868524	20	6 11.2	19.2
403533 2010 FP_{88}	17.8	X	230.51366	210.41425	76.00878	3.44667	0.2228695	0.27208137	2.3586863	20	1 16.7	21.7
403534 2010 GZ_{29}	18.2	X	275.05357	182.74869	60.56607	2.91850	0.1609045	0.27789927	2.3256505	20	1 5.8	21.5
403535 2010 GE_{98}	17.6	X	316.66488	187.32405	22.25637	5.82854	0.1069823	0.27947044	2.3169258	20	1 18.9	20.5
403536 2010 GW_{102}	18.3	X	122.07441	101.77950	3.00224	6.28832	0.0906751	0.30180020	2.2011841	20	5 7.7	21.1
403537 2010 GY_{114}	17.8	X	292.40469	211.24437	24.81206	4.38256	0.0921414	0.27880514	2.3206102	20	1 24.9	20.8
403538 2010 GP_{119}	17.8	X	358.87294	165.86327	23.45112	5.54326	0.0956439	0.28648789	2.2789347	20	2 26.6	20.0
403539 2010 GN_{140}	18.0	X	278.01914	308.47802	293.50426	0.81565	0.1566988	0.27709704	2.3301370	20	1 7.4	21.3
403540 2010 GP_{145}	17.6	X	279.73893	25.46723	202.66552	4.29828	0.1814410	0.27270105	2.3551117	20	—	—
403541 2010 GO_{156}	17.9	X	46.95320	46.03955	116.97461	5.07028	0.0798317	0.29554940	2.2321121	20	4 12.9	20.1
403542 2010 HR_{8}	16.7	X	197.39482	77.81393	238.83071	10.40827	0.1776591	0.25728075	2.4482993	20	1 23.8	20.8
403543 2010 HG_{17}	16.7	X	204.92063	219.94302	128.52375	12.00263	0.2591007	0.26427709	2.4048964	20	3 14.5	21.0
403544 2010 HF_{80}	17.7	X	304.36360	131.29140	78.22422	4.41481	0.1713070	0.27660517	2.3328986	20	—	—
403545 2010 HM_{80}	17.6	X	267.09466	215.86238	55.65127	5.21907	0.2074531	0.27791202	2.3255794	20	1 30.6	21.3
403546 2010 HQ_{98}	17.5	X	187.97299	182.54415	139.20338	9.10037	0.2549759	0.25322124	2.4743965	20	1 27.6	21.8
403547 2010 HB_{104}	17.1	X	290.82650	319.93123	273.51501	7.87708	0.2446516	0.27573820	2.3377860	20	—	—
403548 2010 HB_{114}	17.6	X	304.69497	70.75045	137.06185	23.03258	0.2165869	0.27365602	2.3496295	20	—	—
403549 2010 JJ	17.2	X	256.38816	184.00886	94.12983	7.69242	0.1799776	0.27657994	2.3330404	20	1 30.7	20.9
403550 2010 JY_{29}	17.8	X	239.94009	150.06206	101.83608	3.68193	0.1430035	0.26523072	2.3991285	20	—	—
403551 2010 JX_{68}	16.9	X	83.94142	90.82295	304.37859	15.31047	0.2522253	0.23854188	2.5748956	20	1 15.4	19.6
403552 2010 JP_{71}	17.9	X	232.43939	88.31876	187.02181	9.20923	0.2600124	0.26695889	2.3887633	20	1 3.6	22.2
403553 2010 JR_{72}	17.5	X	325.58002	137.49465	147.51669	8.54432	0.0549798	0.29762787	2.2217080	20	5 28.8	20.0
403554 2010 JN_{165}	18.2	X	316.88142	106.67556	81.68622	2.22267	0.1250168	0.27317259	2.3524007	20	—	—
403555 2010 JQ_{168}	18.0	X	256.06119	116.78689	170.99212	7.28922	0.2802806	0.27373545	2.3491749	20	2 2.6	22.0
403556 2010 KU_{58}	16.3	X	215.50749	233.97385	316.27489	16.03380	0.0651108	0.22472892	2.6793539	20	12 15.4	20.3
403557 2010 KR_{88}	17.2	X	101.99522	207.87844	167.13151	9.23268	0.1734041	0.23793514	2.5792711	20	1 1.6	20.6
403558 2010 LZ_{4}	15.7	X	81.52593	11.24996	3.49464	13.09729	0.2964515	0.22928051	2.6437758	20	—	—
403559 2010 LD_{35}	17.2	X	233.69096	236.47907	68.52050	7.21588	0.1485675	0.27391612	2.3481418	20	2 15.7	20.9
403560 2010 LA_{70}	17.4	X	164.46040	350.70985	336.82708	7.94305	0.1139554	0.24403638	2.5360998	20	1 8.3	21.2
403561 2010 LK_{81}	17.0	X	206.15891	352.76298	11.30813	11.37607	0.1963401	0.26295925	2.4129246	20	3 31.7	21.1
403562 2010 LX_{94}	16.7	X	27.17795	121.83022	320.67777	13.65361	0.2195019	0.22951180	2.6419993	20	—	—
403563 Ledbetter	17.0	X	132.19407	322.88903	329.21695	4.45750	0.0266675	0.22443283	2.6817099	20	—	—
403564 2010 MV_{33}	16.9	X	109.26952	354.44068	1.26868	10.95049	0.1361556	0.23302413	2.6153840	20	—	—
403565 2010 ML_{60}	16.9	X	40.57306	283.40348	100.78146	7.18476	0.1512385	0.21906654	2.7253274	20	—	—
403566 2010 MF_{103}	17.3	X	125.26041	166.41250	151.60128	2.44842	0.2035088	0.22903967	2.6456288	20	—	—
403567 2010 MQ_{107}	16.3	X	130.44068	59.33812	283.95204	13.30330	0.2057357	0.23521179	2.5991419	20	1 2.2	19.8
403568 2010 NJ_{6}	16.8	X	209.50841	23.54109	291.76492	5.46125	0.1313225	0.25899312	2.4374959	20	2 3.5	20.5
403569 2010 NO_{37}	17.5	X	149.66819	357.18048	305.55449	1.48281	0.1845128	0.23166160	2.6256289	20	—	—
403570 2010 NK_{42}	17.1	X	93.38802	68.14145	314.70143	6.10330	0.2045466	0.23157824	2.6262590	20	1 6.9	20.2
403571 2010 NJ_{58}	17.3	X	19.24258	332.37921	64.06038	1.18459	0.0784457	0.21476957	2.7615583	20	—	—
403572 2010 NQ_{71}	17.0	X	77.21143	343.47618	47.06679	3.10952	0.2188072	0.22767671	2.6561768	20	—	—
403573 2010 NT_{79}	16.3	X	53.53365	120.76204	265.67931	14.84881	0.1362711	0.22075167	2.7114403	20	—	—
403574 2010 NM_{97}	16.8	X	109.85082	48.64460	333.82821	10.97068	0.2107924	0.23575082	2.5951786	20	1 30.2	20.3
403575 2010 NA_{99}	17.2	X	50.78849	93.74036	323.74181	2.08409	0.2224522	0.22559646	2.6724804	20	—	—
403576 2010 NL_{108}	17.2	X	88.24310	319.44490	43.63261	8.03549	0.1585692	0.22588637	2.6701933	20	—	—
403577 2010 NV_{114}	17.0	X	56.56713	128.80145	215.83826	3.62648	0.0815543	0.21206882	2.7849550	20	12 25.9	21.0
403578 2010 OY_{24}	16.7	X	29.16695	348.16422	35.89400	6.16308	0.0876820	0.21287946	2.7778804	20	—	—
403579 2010 OQ_{30}	17.0	X	56.62214	269.13790	144.27414	15.42999	0.2845093	0.22435181	2.6823555	20	—	—
403580 2010 OW_{33}	17.3	X	31.29793	79.93642	305.80148	2.63974	0.1565053	0.21330520	2.7741829	20	—	—
403581 2010 OY_{47}	17.0	X	81.45489	181.93182	196.64119	7.45684	0.1907720	0.22578164	2.6710190	20	—	—
403582 2010 OQ_{59}	16.6	X	97.92261	78.09397	341.24807	8.85319	0.1980171	0.23791815	2.5793939	20	2 27.5	19.9
403583 2010 OD_{73}	16.9	X	3.86543	140.83952	304.13929	7.46213	0.2550762	0.21517479	2.7580902	20	—	—
403584 2010 OR_{99}	16.8	X	61.68199	351.99772	357.36173	4.17014	0.0852389	0.21185834	2.7867991	20	—	—
403585 2010 OE_{127}	17.2	X	151.22650	37.20097	302.38287	15.22154	0.1997402	0.24338576	2.5406174	20	1 17.2	21.1
403586 2010 PN_{10}	16.0	X	200.47668	313.29659	281.91458	12.60186	0.1242258	0.23844394	2.5756006	20	—	—
403587 2010 PY_{23}	17.4	X	121.24375	40.81015	326.56244	3.01588	0.0596816	0.24267561	2.5455715	20	—	—
403588 2010 PO_{25}	16.4	X	59.34694	77.99003	259.49435	18.10614	0.3342775	0.21283686	2.7782510	20	—	—
403589 2010 PA_{40}	16.8	X	100.04585	269.20948	130.52442	5.91121	0.2595244	0.23342111	2.6124178	20	2 14.9	20.1
403590 2010 PY_{46}	16.9	X	56.52335	258.05269	128.36792	6.01454	0.1330659	0.21840737	2.7308082	20	—	—
403591 2010 PF_{58}	17.6	X	197.77739	122.19262	193.18182	0.58011	0.1961304	0.25512354	2.4620811	20	1 26.2	21.6
403592 2010 PN_{77}	17.4	X	187.81314	151.15321	187.69596	1.06225	0.2049629	0.25638297	2.4540115	20	2 15.0	21.4
403593 2010 PT_{79}	17.3	X	163.23109	3.93613	295.22031	2.93297	0.2370924	0.24005100	2.5640926	20	—	—
403594 2010 PC_{80}	17.0	X	68.39254	14.20803	345.24732	5.54179	0.0073485	0.22572018	2.6715038	20	—	—
403595 2010 QN_{2}	16.8	X	145.64112	38.16406	348.50823	6.99734	0.2184381	0.25405926	2.4689523	20	3 9.2	20.7
403596 2010 RN_{4}	16.9	X	295.11705	104.60710	23.13158	5.43913	0.0579232	0.22240377	2.6979959	20	—	—
403597 2010 RO_{5}	17.5	X	97.39174	335.49866	336.42505	1.94311	0.0636320	0.22129426	2.7070064	20	—	—
403598 2010 RN_{7}	17.4	X	174.80781	261.39876	17.52356	4.57078	0.2170055	0.23831455	2.5765328	20	—	—
403599 2010 RQ_{7}	17.2	X	46.33936	231.33236	144.10527	6.81535	0.0158681	0.22290542	2.6939465	20	—	—
403600 2010 RM_{10}	16.7	X	110.11668	303.42335	329.53765	3.99343	0.1253000	0.21237190	2.7823047	20	11 29.8	21.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
403601 2010 RU_{14}	17.0	X	127.84131	45.13518	295.64489	12.73685	0.1849642	0.23793356	2.5792825	20	—	—
403602 2010 RK_{29}	17.6	X	32.45650	45.26504	343.66932	6.32006	0.0569201	0.22147989	2.7054936	20	—	—
403603 2010 RC_{37}	16.5	X	168.14433	326.99764	321.23286	12.35620	0.2702933	0.23954685	2.5676889	20	—	—
403604 2010 RZ_{37}	16.3	X	69.72019	66.32721	353.34809	11.59436	0.2660459	0.23165687	2.6256647	20	1 30.9	19.0
403605 2010 RL_{40}	16.3	X	156.40719	278.75231	336.05857	24.36194	0.1342003	0.22057146	2.7129169	20	12 27.2	21.0
403606 2010 RL_{48}	16.3	X	256.61919	215.53101	186.41945	8.88298	0.0468888	0.18231674	3.0802433	20	7 24.3	20.8
403607 2010 RM_{49}	16.9	X	43.78389	347.77626	355.83877	5.27006	0.0437618	0.20900413	2.8121132	20	12 2.4	20.8
403608 2010 RC_{51}	17.4	X	68.48748	216.54460	169.14281	1.87011	0.2136664	0.22600703	2.6692428	20	—	—
403609 2010 RP_{55}	16.7	X	261.73822	217.22295	330.41245	9.94692	0.1176856	0.23101938	2.6304927	20	—	—
403610 2010 RQ_{59}	17.3	X	78.85109	87.13411	281.83803	3.13833	0.1749048	0.22598560	2.6694115	20	—	—
403611 2010 RW_{81}	17.2	X	74.10356	345.53587	19.15782	5.82497	0.0936068	0.22396197	2.6854673	20	—	—
403612 2010 RR_{85}	17.5	X	74.23396	274.83534	84.87094	2.96628	0.0876791	0.22628098	2.6670880	20	—	—
403613 2010 RZ_{88}	17.2	X	117.91186	173.13636	177.77913	2.25485	0.1199007	0.23223617	2.6212965	20	—	—
403614 2010 RB_{101}	17.0	X	115.17487	289.16092	356.80650	11.27606	0.1533589	0.21669083	2.7452108	20	12 22.7	21.6
403615 2010 RJ_{101}	16.6	X	267.28275	96.70285	357.21741	10.88001	0.0643538	0.19847453	2.9107140	20	10 11.8	20.5
403616 2010 RM_{101}	17.7	X	58.00509	28.30729	353.56503	8.77040	0.1063423	0.22231264	2.6987331	20	—	—
403617 2010 RC_{105}	17.6	X	308.14365	141.81191	352.53826	1.55817	0.0370267	0.22106281	2.7088956	20	—	—
403618 2010 RT_{106}	17.2	X	77.73824	23.45890	2.82292	3.84959	0.1167553	0.22834314	2.6510061	20	—	—
403619 2010 RC_{112}	17.1	X	152.38500	274.49814	21.02812	4.81909	0.2270485	0.23281069	2.6169822	20	—	—
403620 2010 RA_{121}	17.6	X	322.62979	96.73746	342.82098	3.70073	0.0328318	0.21513050	2.7584687	20	12 17.4	21.1
403621 2010 RD_{127}	18.2	X	115.35788	307.14322	51.82878	3.30939	0.2133637	0.23449987	2.6043997	20	1 5.9	21.6
403622 2010 RY_{127}	17.0	X	64.99452	3.92003	338.30511	13.34408	0.1008811	0.21669675	2.7451608	20	—	—
403623 2010 RE_{129}	16.5	X	140.10902	294.14445	359.01730	13.67532	0.0513153	0.22175117	2.7032866	20	—	—
403624 2010 RQ_{133}	17.0	X	132.30111	28.61756	332.89330	15.60209	0.1817711	0.24072086	2.5593336	20	1 26.3	20.8
403625 2010 RB_{148}	17.4	X	71.33498	126.13551	220.43354	5.14968	0.0579595	0.22057524	2.7128860	20	—	—
403626 2010 RQ_{157}	17.3	X	174.23011	300.49071	352.24640	13.29600	0.1780457	0.24046505	2.5611484	20	—	—
403627 2010 RJ_{174}	17.0	X	83.23619	10.11383	340.41398	5.68884	0.0251455	0.22058500	2.7128059	20	—	—
403628 2010 RC_{180}	17.0	X	40.84114	115.06810	313.75490	5.66075	0.1622885	0.23004854	2.6378883	20	—	—
403629 2010 RP_{183}	16.8	X	188.06332	124.79119	150.71358	9.92444	0.0910717	0.23229448	2.6208578	20	—	—
403630 2010 RW_{183}	16.5	X	331.48798	56.37640	358.88516	5.65000	0.0221873	0.20517298	2.8470119	20	11 24.5	20.4
403631 2010 SC_{6}	15.8	X	293.56380	163.83788	215.54298	9.09281	0.1134542	0.18257515	3.0773362	20	8 2.8	20.0
403632 2010 SJ_{9}	17.4	X	90.46967	185.48896	181.13076	6.35338	0.1963163	0.22966895	2.6407940	20	—	—
403633 2010 ST_{11}	17.2	X	84.66947	8.47835	15.98115	6.32184	0.2122362	0.22990074	2.6390187	20	—	—
403634 2010 SD_{18}	17.7	X	65.48661	9.05571	358.52942	4.22968	0.1166506	0.22272180	2.6954269	20	—	—
403635 2010 SH_{19}	17.2	X	27.70453	340.96653	47.51385	3.97723	0.1861739	0.21417841	2.7666375	20	—	—
403636 2010 SC_{20}	17.0	X	339.47730	207.27865	215.64359	4.55695	0.1524732	0.20928686	2.8095801	20	12 25.8	20.2
403637 2010 SB_{21}	17.8	X	20.55551	51.02303	1.65539	2.28975	0.1822987	0.21831371	2.7315891	20	—	—
403638 2010 SH_{39}	17.3	X	201.48007	200.86295	208.06091	10.76948	0.2001205	0.26908602	2.3761579	20	5 24.0	21.2
403639 2010 TG_{1}	17.7	X	156.86753	107.26243	184.01501	1.91576	0.1801905	0.22959657	2.6413490	20	—	—
403640 2010 TS_{2}	17.5	X	26.32611	64.10332	313.33675	3.34268	0.0794708	0.21218664	2.7839239	20	12 29.4	21.1
403641 2010 TC_{3}	17.4	X	310.95083	64.56503	8.39590	4.68088	0.0399991	0.20488707	2.8496598	20	11 19.3	21.1
403642 2010 TB_{5}	17.1	X	149.51095	124.21497	186.21081	12.61380	0.2043270	0.23447082	2.6046148	20	—	—
403643 2010 TO_{15}	17.1	X	50.41424	126.69187	259.00957	6.01951	0.0907565	0.22077893	2.7112171	20	—	—
403644 2010 TO_{30}	16.8	X	104.98968	112.00477	207.36223	4.56431	0.0347664	0.21946946	2.7219908	20	—	—
403645 2010 TE_{43}	17.3	X	330.08518	148.16694	279.45965	1.83313	0.0521387	0.20910418	2.8112161	20	12 11.4	20.8
403646 2010 TP_{45}	17.0	X	142.91122	50.10023	220.57184	1.90582	0.0731053	0.21518374	2.7580137	20	12 29.6	21.0
403647 2010 TW_{53}	17.1	X	125.12662	244.10549	33.01226	3.54105	0.1653637	0.21665494	2.7455140	20	12 21.0	21.6
403648 2010 TH_{62}	17.2	X	333.81080	154.29306	265.51333	4.05871	0.0613312	0.20876032	2.8143023	20	12 6.9	20.8
403649 2010 TP_{64}	17.2	X	175.47347	310.10922	356.46438	8.61101	0.1609134	0.23865178	2.5741051	20	—	—
403650 2010 TG_{71}	16.8	X	68.33139	26.46533	339.95904	10.85394	0.1855486	0.22250601	2.6971694	20	—	—
403651 2010 TE_{76}	17.3	X	76.47377	294.28224	41.22165	2.62513	0.0924478	0.21567839	2.7537951	20	—	—
403652 2010 TN_{78}	17.0	X	110.11307	205.71705	89.39682	1.87829	0.0508376	0.21279604	2.7786063	20	12 23.2	21.0
403653 2010 TG_{83}	17.1	X	16.60759	82.99395	353.59797	13.85410	0.1928706	0.22525981	2.6751424	20	—	—
403654 2010 TH_{84}	17.3	X	87.22829	322.59546	25.63151	5.28460	0.0772518	0.22368916	2.6876503	20	—	—
403655 2010 TB_{89}	17.2	X	129.32002	274.57564	28.94937	11.74836	0.0716439	0.22342255	2.6897880	20	—	—
403656 2010 TO_{92}	16.5	X	329.34093	141.77289	324.91219	8.14933	0.1641180	0.21692613	2.7432253	20	—	—
403657 2010 TS_{92}	16.4	X	42.74826	108.97303	344.40166	12.63417	0.2066211	0.23281329	2.6169628	20	1 12.7	18.9
403658 2010 TZ_{95}	17.5	X	94.46522	313.84726	46.81087	1.66592	0.1360298	0.22819717	2.6521365	20	—	—
403659 2010 TQ_{96}	16.7	X	142.95772	71.57879	151.94222	1.92836	0.0843620	0.20329793	2.8644906	20	11 1.6	21.0
403660 2010 TS_{103}	17.0	X	93.77544	262.76565	47.51619	4.81919	0.0639712	0.21464754	2.7626048	20	12 24.9	21.1
403661 2010 TL_{105}	17.1	X	64.86233	17.23070	352.28350	5.68484	0.0346593	0.22037809	2.7145037	20	—	—
403662 2010 TB_{107}	17.4	X	81.03577	213.05543	106.44647	1.63674	0.0690223	0.21339234	2.7734276	20	12 22.2	21.4
403663 2010 TH_{124}	17.2	X	54.17189	313.80451	41.43005	3.73135	0.1018306	0.21462837	2.7627694	20	—	—
403664 2010 TT_{127}	16.6	X	76.74118	110.63518	308.49551	10.86644	0.1734620	0.23440821	2.6050786	20	1 23.7	19.3
403665 2010 TP_{157}	17.6	X	154.14745	154.63780	178.42075	5.43977	0.1875884	0.23911409	2.5707861	20	1 10.1	21.7
403666 2010 TP_{158}	16.3	X	212.61310	80.75836	34.68667	9.45977	0.1486465	0.18598813	3.0395729	20	8 30.4	21.2
403667 2010 TQ_{175}	17.0	X	183.06966	166.96469	139.03924	8.84056	0.2468408	0.24375830	2.5380282	20	1 6.4	21.4
403668 2010 TZ_{176}	16.8	X	87.13009	98.13827	267.88068	13.67091	0.1626717	0.22527714	2.6750052	20	—	—
403669 2010 TA_{183}	17.1	X	117.69569	275.98196	28.18747	10.74452	0.1297486	0.22092838	2.7099943	20	—	—
403670 2010 TT_{184}	17.5	X	24.68192	157.71276	246.44192	1.41479	0.1100278	0.21609728	2.7502353	20	—	—
403671 2010 UQ_{2}	17.2	X	316.99659	184.83772	330.48080	2.22366	0.0390550	0.22474538	2.6792230	20	—	—
403672 2010 UO_{11}	17.2	X	101.81829	288.14665	60.80544	2.90792	0.2147843	0.22634131	2.6666141	20	—	—
403673 2010 UK_{21}	16.8	X	24.94204	26.82485	34.81041	3.80591	0.1400326	0.21890929	2.7266324	20	—	—
403674 2010 UE_{23}	16.2	X	129.67800	145.24653	43.63991	5.33034	0.0729361	0.18183207	3.0857144	20	9 4.8	20.8
403675 2010 UM_{25}	16.4	X	357.65022	286.94752	89.24058	3.44567	0.1118352	0.19458391	2.9493847	20	11 17.1	19.8
403676 2010 UZ_{26}	17.3	X	86.87111	180.71854	224.01124	2.14323	0.1824075	0.22999222	2.6383189	20	1 21.6	20.5
403677 2010 UB_{31}	16.4	X	139.22342	251.78177	282.82509	4.09590	0.0989251	0.17848574	3.1241631	20	8 25.3	21.3
403678 2010 UQ_{33}	16.0	X	237.64966	118.90658	14.98573	10.16078	0.0609152	0.19609888	2.9341748	20	10 25.3	20.2
403679 2010 UU_{33}	17.2	X	119.34749	350.87973	341.94639	4.22983	0.1631777	0.22538542	2.6741484	20	—	—
403680 2010 UB_{58}	15.8	X	285.74607	345.75756	51.52202	12.74551	0.0458658	0.17827236	3.1266555	20	9 3.3	20.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
403681 2010 UZ_{85}	17.0	X	69.29384	266.73139	67.74876	5.33321	0.0726948	0.21039332	2.7997209	20	12 26.9	21.1
403682 2010 UB_{107}	16.9	X	345.37752	79.83312	355.44658	8.67572	0.1498389	0.21185469	2.7868311	20	—	—
403683 2010 VT_{38}	16.8	X	74.02649	6.72875	60.56229	16.01619	0.2484775	0.23084192	2.6318407	20	2 19.7	20.0
403684 2010 VK_{40}	17.1	X	70.60361	22.98472	334.09975	4.43433	0.1733017	0.21832204	2.7315197	20	—	—
403685 2010 VY_{47}	16.1	X	232.18753	52.51813	47.93989	5.88362	0.0896495	0.17873407	3.1212686	20	9 5.6	20.7
403686 2010 VX_{55}	17.2	X	35.99237	250.72179	103.23807	3.27994	0.0777682	0.20266471	2.8704542	20	12 9.9	21.0
403687 2010 VY_{63}	16.8	X	38.13230	161.67439	181.81202	5.63019	0.1238964	0.20141650	2.8823012	20	12 6.5	20.8
403688 2010 VB_{65}	16.1	X	18.33554	305.13452	37.63958	11.04955	0.1107243	0.19231375	2.9725499	20	11 3.5	19.9
403689 2010 VW_{67}	17.3	X	107.85964	270.93885	112.82658	3.86781	0.2052219	0.23437349	2.6053359	20	1 26.9	20.7
403690 2010 VF_{85}	16.0	X	281.00542	1.75944	63.83560	11.05547	0.0535004	0.18510683	3.0492129	20	10 1.9	20.3
403691 2010 VW_{95}	17.4	X	102.49233	338.93361	41.54265	6.05751	0.0979957	0.22867493	2.6484413	20	—	—
403692 2010 VY_{97}	17.0	X	47.99987	157.63095	239.25666	4.38974	0.0549121	0.21768284	2.7368643	20	—	—
403693 2010 VK_{100}	16.6	X	76.88877	66.10770	348.76801	23.85247	0.1407235	0.23363665	2.6108108	20	1 22.6	20.1
403694 2010 VG_{102}	17.2	X	12.31304	181.28641	208.65258	1.34699	0.0791748	0.20309140	2.8664323	20	12 23.7	20.9
403695 2010 VN_{105}	16.6	X	317.09460	140.97703	216.53404	10.71953	0.1773116	0.18198258	3.0840128	20	8 2.5	20.4
403696 2010 VQ_{105}	17.1	X	6.49853	253.12665	143.21594	2.69571	0.0686677	0.20412036	2.8567912	20	12 22.8	20.8
403697 2010 VG_{113}	16.7	X	351.26917	268.94211	117.97478	3.16151	0.1101206	0.19695772	2.9256388	20	11 21.6	20.2
403698 2010 VS_{116}	16.5	X	250.03420	160.59045	294.52559	4.67287	0.1329263	0.18462830	3.0544794	20	9 9.8	20.9
403699 2010 VC_{118}	16.0	X	337.91066	323.22716	30.42093	9.02133	0.0635230	0.18334975	3.0686628	20	9 16.7	20.0
403700 2010 VZ_{144}	16.3	X	127.26135	179.42228	83.11805	9.98642	0.0317251	0.20180604	2.8785909	20	11 30.5	20.4
403701 2010 VF_{149}	16.3	X	146.29176	32.41713	182.21785	5.61365	0.0502533	0.18975381	2.9992249	20	10 23.1	20.7
403702 2010 VR_{150}	16.1	X	230.97525	4.21284	78.98705	9.66768	0.0563285	0.17634124	3.1494408	20	8 17.9	20.8
403703 2010 VD_{157}	17.4	X	58.93101	179.52346	178.16970	1.61160	0.0624004	0.20717908	2.8286037	20	—	—
403704 2010 VL_{159}	15.9	X	262.70784	346.02930	80.65469	11.80688	0.1099709	0.18036993	3.1023679	20	8 30.8	20.4
403705 2010 VN_{166}	16.5	X	178.49193	148.96734	58.24949	2.92338	0.0214506	0.19943707	2.9013411	20	11 21.3	20.5
403706 2010 VU_{171}	16.1	X	156.37872	112.34917	65.25698	10.97589	0.0219715	0.17958257	3.1114292	20	9 22.4	20.7
403707 2010 VY_{172}	16.2	X	161.11713	97.57478	71.80096	10.29587	0.0312180	0.17782366	3.1319130	20	9 17.2	20.9
403708 2010 VF_{175}	17.0	X	172.87047	81.31414	149.33762	2.64907	0.0263908	0.20272751	2.8698615	20	12 13.8	21.1
403709 2010 VB_{185}	16.1	X	129.62114	256.56042	285.94352	9.10474	0.0690168	0.17574371	3.1565756	20	8 21.0	20.9
403710 2010 VD_{187}	16.9	X	116.49188	208.75835	158.14296	7.19189	0.2312906	0.23101561	2.6305213	20	1 18.9	20.7
403711 2010 VE_{203}	17.2	X	97.39485	71.25621	333.51132	4.91649	0.0931853	0.23549025	2.5970926	20	1 23.7	20.4
403712 2010 VV_{203}	16.4	X	86.11645	352.57619	315.64986	7.75881	0.1373062	0.21037435	2.7998893	20	12 19.9	20.7
403713 2010 VL_{204}	17.0	X	30.43365	51.36275	350.80941	5.07687	0.0739165	0.21392391	2.7688313	20	—	—
403714 2010 VT_{205}	17.3	X	345.56994	114.55220	275.63223	1.00441	0.0777933	0.19965093	2.8992689	20	11 14.4	20.9
403715 2010 VA_{208}	16.7	X	143.81229	342.88787	296.01911	2.39004	0.1634830	0.21723422	2.7406310	20	—	—
403716 2010 VK_{215}	16.8	X	344.11886	125.51270	3.77932	3.55117	0.0495098	0.22297823	2.6933600	20	—	—
403717 2010 VV_{219}	17.2	X	115.00492	68.75716	261.18977	4.24070	0.0763251	0.22238380	2.6981574	20	—	—
403718 2010 WU_{7}	16.1	X	258.32600	89.06745	352.18578	9.65917	0.1075793	0.18395773	3.0618978	20	9 8.8	20.2
403719 2010 WH_{11}	16.3	X	211.88343	152.47496	357.80931	9.50901	0.1843532	0.18593354	3.0401679	20	10 2.1	21.1
403720 2010 WX_{12}	16.9	X	278.28153	340.76640	121.26434	3.01785	0.0449520	0.19549737	2.9401903	20	11 11.5	20.8
403721 2010 WK_{24}	16.9	X	58.06331	287.38355	38.80051	2.53007	0.0801668	0.19746552	2.9206210	20	12 1.5	21.0
403722 2010 WR_{26}	17.0	X	288.22798	93.35209	330.29349	1.35876	0.0929598	0.18625370	3.0366829	20	9 28.1	20.7
403723 2010 WU_{30}	16.4	X	126.94643	194.79810	73.19109	12.48869	0.0659807	0.19852586	2.9102122	20	12 6.3	20.8
403724 2010 WR_{52}	16.4	X	260.68859	27.91101	51.81165	5.95764	0.1091460	0.18175286	3.0866109	20	9 11.8	20.7
403725 2010 WV_{53}	16.8	X	98.61375	276.28143	60.52152	12.85786	0.1755642	0.21494014	2.7600971	20	—	—
403726 2010 WQ_{58}	16.4	X	324.88478	299.00794	75.08385	11.55292	0.0477346	0.18268365	3.0761176	20	9 27.6	20.7
403727 2010 WH_{60}	16.5	X	240.57041	179.79540	271.26411	4.34199	0.1806253	0.17728757	3.1382234	20	8 18.7	21.4
403728 2010 WR_{63}	16.1	X	162.29106	98.57143	79.43535	5.48665	0.1441797	0.17624187	3.1506246	20	9 25.6	21.2
403729 2010 XU_{8}	16.9	X	147.64462	214.27004	185.41066	4.35724	0.2474836	0.24420136	2.5349574	20	3 29.8	21.1
403730 2010 XX_{10}	16.7	X	154.51400	203.47220	167.16540	4.93266	0.2968387	0.24120154	2.5559322	20	3 3.5	21.0
403731 2010 XQ_{20}	16.1	X	6.22577	130.14381	255.35423	8.87950	0.1092393	0.19334478	2.9619730	20	12 10.6	19.7
403732 2010 XA_{39}	17.3	X	49.02530	266.18065	125.64712	4.47932	0.1661953	0.21314481	2.7755744	20	—	—
403733 2010 XS_{40}	16.2	X	205.05674	147.92517	356.32059	9.80016	0.0637958	0.18268902	3.0760573	20	9 28.3	20.6
403734 2010 XB_{41}	15.6	X	335.75373	293.18674	82.86786	11.40552	0.1021676	0.18209818	3.0827074	20	10 14.7	19.5
403735 2010 XE_{44}	15.9	X	279.22342	167.37206	269.33401	8.54179	0.1240839	0.18638829	3.0352209	20	9 23.5	20.1
403736 2010 XC_{57}	17.2	X	77.47350	277.19441	66.12657	5.89554	0.0962319	0.21184073	2.7869536	20	—	—
403737 2010 XW_{57}	16.3	X	290.95965	314.82977	123.41473	10.18095	0.1750550	0.19034082	2.9930554	20	10 16.6	20.1
403738 2010 XU_{66}	16.1	X	356.20823	246.55948	98.91451	11.11751	0.0234450	0.18181079	3.0859552	20	10 3.1	20.5
403739 2010 XN_{85}	17.2	X	75.76075	256.33552	150.14342	5.57169	0.1706036	0.22373119	2.6873137	20	1 6.0	20.2
403740 2011 AZ	17.5	X	78.72005	64.05908	339.27308	1.30967	0.2886253	0.22122435	2.7075767	20	1 26.8	20.4
403741 2011 AM_{5}	16.0	X	73.07588	283.45327	202.83939	27.79603	0.2110751	0.23715965	2.5848907	20	4 25.5	19.1
403742 2011 AB_{13}	15.6	X	254.47134	56.67545	33.02629	10.22059	0.2062367	0.17556224	3.1587503	20	9 4.2	20.3
403743 2011 AJ_{14}	15.8	X	329.39256	53.22109	311.09952	16.07741	0.1601013	0.17297459	3.1901751	20	9 2.0	19.6
403744 2011 AJ_{16}	15.8	X	254.08191	152.79865	322.35077	7.55852	0.1593760	0.17949995	3.1123839	20	10 3.9	20.3
403745 2011 AS_{23}	15.8	X	286.03081	320.74325	108.34923	12.37011	0.1038185	0.17844669	3.1246188	20	10 6.0	20.1
403746 2011 AR_{29}	16.4	X	327.67263	53.63902	327.68890	9.52098	0.1813187	0.18094912	3.0957442	20	9 25.0	19.9
403747 2011 AX_{41}	15.8	X	269.40642	326.53548	93.38486	12.57053	0.0453610	0.16841903	3.2474461	20	9 8.1	20.5
403748 2011 AH_{42}	16.5	X	281.64981	16.66246	53.49642	3.66002	0.1727665	0.17811585	3.1284869	20	9 16.5	20.6
403749 2011 AC_{56}	16.0	X	296.18721	18.96877	79.76486	15.19024	0.1259014	0.18936753	3.0033023	20	11 23.8	19.7
403750 2011 AQ_{62}	16.8	X	260.66684	320.35189	117.18286	10.05228	0.2357509	0.17466778	3.1695250	20	8 19.9	21.4
403751 2011 AF_{74}	16.0	X	231.90634	356.98645	92.34738	12.89442	0.1288291	0.16798906	3.2529850	20	8 17.5	21.1
403752 2011 AH_{79}	16.0	X	350.35816	107.27574	301.20954	11.09242	0.1491788	0.19075831	2.9886868	20	12 19.4	19.5
403753 2011 BS_{2}	16.4	X	23.63739	27.97136	318.60870	10.54757	0.1062365	0.18553836	3.0444832	20	11 10.3	20.6
403754 2011 BE_{6}	17.4	X	312.00605	301.52165	107.45014	2.57810	0.1846055	0.18218780	3.0816964	20	10 7.9	20.9
403755 2011 BZ_{9}	16.6	X	327.43236	279.25791	115.50447	5.69069	0.1509653	0.18121327	3.0927351	20	10 21.1	20.1
403756 2011 BV_{13}	16.5	X	315.85974	58.62935	322.29283	12.69263	0.1459442	0.17292697	3.1907606	20	9 4.2	20.4
403757 2011 BN_{28}	15.3	X	260.01172	267.57294	117.81134	8.46071	0.0885983	0.15277347	3.4655387	20	7 1.9	20.2
403758 2011 BG_{33}	16.5	X	330.49604	181.32940	207.20531	0.63075	0.1738813	0.17714229	3.1399391	20	10 13.8	19.9
403759 2011 BH_{58}	16.9	X	316.15507	317.71697	112.47241	2.36485	0.2089469	0.18609388	3.0384212	20	11 12.9	19.9
403760 2011 BY_{83}	16.1	X	253.75855	31.49079	55.92512	5.39474	0.1500941	0.17264469	3.1942377	20	9 5.7	20.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
403761 2011 BR_{85}	15.8	X	296.66656	315.51929	112.05536	12.46043	0.1865270	0.18013543	3.1050597	20	10 9.7	19.7
403762 2011 BX_{136}	16.5	X	352.12911	340.98443	13.29716	3.73117	0.0785119	0.17333044	3.1858072	20	10 3.7	20.5
403763 2011 CE_{1}	15.6	X	289.49834	310.80476	126.50598	18.59253	0.2126957	0.17719719	3.1392904	20	10 7.2	19.8
403764 2011 CH_{5}	15.6	X	286.78448	291.50884	132.79105	9.49899	0.2025933	0.17555367	3.1588532	20	9 12.3	19.6
403765 2011 CE_{20}	16.0	X	350.08945	35.49633	336.60537	11.32838	0.0756776	0.17371568	3.1810954	20	10 18.0	20.2
403766 2011 DA_{3}	16.1	X	336.53771	82.50778	340.35937	11.65555	0.1557949	0.18451399	3.0557408	20	12 11.0	19.8
403767 2011 DP_{24}	17.6	X	115.17442	63.41929	167.29278	23.61453	0.0509802	0.37470193	1.9055138	20	11 14.7	20.3
403768 2011 DF_{26}	15.8	X	305.72904	70.88338	327.84229	8.89103	0.1043933	0.16861054	3.2449866	20	9 15.4	20.1
403769 2011 DL_{29}	16.5	X	338.82253	244.50423	152.11107	16.82258	0.2374657	0.18155323	3.0888730	20	11 19.2	19.9
403770 2011 EA_{2}	16.5	X	334.42324	240.29139	146.63881	17.07576	0.2002392	0.17727106	3.1384183	20	10 25.6	20.1
403771 2011 EV_{40}	17.5	X	233.00745	258.88763	164.65319	22.78325	0.1233246	0.36137679	1.9520722	20	7 25.2	20.1
403772 2011 EY_{50}	18.2	X	200.64403	66.57996	140.08058	23.38975	0.0954749	0.38964926	1.8564652	20	—	—
403773 2011 EA_{77}	15.6	X	1.63540	63.79482	355.05683	28.13621	0.2270237	0.19051348	2.9912468	20	—	—
403774 2011 FO_{94}	17.2	X	46.56099	148.43964	304.59118	1.00764	0.0327906	0.20238198	2.8731270	20	1 13.9	20.8
403775 2011 HS_{4}	21.0	X	92.32523	314.27790	117.50442	5.46328	0.6800912	1.08438896	0.9383092	20	—	—
403776 2011 OV_{48}	17.4	X	326.47704	302.88831	223.78759	5.37133	0.0417438	0.27802288	2.3249611	20	—	—
403777 2011 PD	18.4	X	314.75742	333.92751	307.76632	2.57651	0.1478135	0.31231067	2.1515173	20	4 14.9	20.4
403778 2011 QU_{35}	18.4	X	280.79648	246.10734	86.35612	4.24015	0.1414542	0.30991919	2.1625711	20	5 12.7	20.7
403779 2011 QX_{68}	19.6	X	304.81050	194.78658	138.58688	3.12892	0.2621708	0.31921217	2.1203933	20	5 30.9	21.5
403780 2011 QJ_{79}	18.4	X	213.51905	19.35617	6.90038	4.58217	0.1319738	0.30283596	2.1961622	20	5 5.8	21.5
403781 2011 RU_{17}	18.2	X	85.22280	261.31653	199.18263	4.92708	0.1412035	0.28012233	2.3133298	20	3 21.5	20.8
403782 2011 SL_{56}	18.2	X	196.86866	283.98681	154.15335	5.43203	0.1071477	0.30575503	2.1821619	20	7 1.1	21.1
403783 2011 SC_{84}	18.8	X	260.52908	296.25057	46.43444	0.80662	0.2003173	0.30491316	2.1861768	20	4 22.2	21.6
403784 2011 SJ_{132}	16.8	X	352.11935	229.55876	195.26330	7.20935	0.1725742	0.23302329	2.6153902	20	—	—
403785 2011 SK_{165}	18.3	X	270.60120	221.10458	77.24738	1.96125	0.1446694	0.29222286	2.2490197	20	3 12.9	21.2
403786 2011 SS_{166}	17.9	X	227.77478	9.66288	0.28927	6.00672	0.1659677	0.29911512	2.2143375	20	4 26.1	21.2
403787 2011 SE_{174}	18.4	X	202.31626	230.78110	174.31668	3.64213	0.1510831	0.29916560	2.2140884	20	5 21.1	21.6
403788 2011 SU_{178}	17.8	X	234.71195	3.99337	2.93809	6.72669	0.0933151	0.29853977	2.2171815	20	5 5.5	20.8
403789 2011 SL_{179}	17.4	X	98.27992	42.67298	10.06960	7.08105	0.0957208	0.26677031	2.3898890	20	2 1.2	20.3
403790 2011 SO_{184}	16.3	X	228.14747	333.50148	51.35003	12.19021	0.0580121	0.18344518	3.0675985	20	5 27.9	20.8
403791 2011 SY_{190}	17.6	X	109.15319	89.42785	356.50299	4.94325	0.1935163	0.27315965	2.3524750	20	4 11.4	20.6
403792 2011 SB_{195}	17.3	X	196.48558	292.48503	28.35310	6.18357	0.1233442	0.27017951	2.3697423	20	1 30.4	20.9
403793 2011 SG_{231}	18.5	X	179.30525	159.23480	231.82119	2.31650	0.1683280	0.28537725	2.2848436	20	4 8.9	22.1
403794 2011 SB_{232}	17.9	X	154.89033	25.48453	3.83019	7.77551	0.1178697	0.27820894	2.3239244	20	3 12.3	21.0
403795 2011 SR_{235}	15.9	X	208.77994	253.50213	288.27070	8.93627	0.0653663	0.22815490	2.6524641	20	11 25.8	19.8
403796 2011 SH_{249}	18.0	X	261.44026	255.08738	79.86751	6.05215	0.1840238	0.30045710	2.2077390	20	4 17.4	21.1
403797 2011 SX_{260}	18.0	X	99.96196	29.69667	42.08615	3.08330	0.1936140	0.27010388	2.3701846	20	3 14.5	20.8
403798 2011 UW_{5}	17.6	X	144.25436	344.21719	50.97282	3.31404	0.1732915	0.27370689	2.3493383	20	3 14.6	21.0
403799 2011 UR_{14}	17.3	X	68.80409	129.81136	351.68304	7.56677	0.0521930	0.27733394	2.3288099	20	3 13.4	19.7
403800 2011 UC_{24}	18.2	X	288.36931	88.12006	256.37388	1.98352	0.1896995	0.30944468	2.1647813	20	6 2.1	20.2
403801 2011 UG_{47}	17.5	X	269.01917	313.54591	11.26545	6.79226	0.1392007	0.29644386	2.2276198	20	4 14.4	20.3
403802 2011 UU_{48}	18.1	X	116.72878	189.69700	237.68668	1.78728	0.1907525	0.27289632	2.3539881	20	3 26.5	21.3
403803 2011 UH_{49}	18.2	X	111.52223	26.72114	39.94824	3.74044	0.1098480	0.27174636	2.3606244	20	3 10.2	21.2
403804 2011 UT_{54}	17.8	X	148.28328	149.06835	236.73077	5.69187	0.1192380	0.27061569	2.3671952	20	2 26.3	21.2
403805 2011 UC_{57}	18.1	X	231.26410	338.01576	49.68343	6.13458	0.1703196	0.30189455	2.2007255	20	5 24.8	21.2
403806 2011 UH_{64}	17.0	X	117.70801	357.67486	49.76716	7.54960	0.0843658	0.26691089	2.3890497	20	2 20.2	20.1
403807 2011 UE_{76}	17.3	X	209.90345	324.88919	333.06798	3.74050	0.0610789	0.26613503	2.3936907	20	1 13.2	20.5
403808 2011 UR_{101}	18.0	X	82.56204	307.82107	127.44965	3.45708	0.1056473	0.26310074	2.4120594	20	2 8.5	20.7
403809 2011 UU_{103}	17.7	X	161.84302	7.32298	44.95707	3.98427	0.1955219	0.28055832	2.3109326	20	4 22.5	21.2
403810 2011 UL_{114}	16.7	X	174.67847	334.79145	61.66367	6.38435	0.1264841	0.28149719	2.3057914	20	4 13.3	20.0
403811 2011 UX_{116}	17.9	X	58.86185	289.94784	167.89314	0.27623	0.1680995	0.26241223	2.4162767	20	2 8.0	20.1
403812 2011 UJ_{117}	17.4	X	92.77140	245.66808	195.49116	6.42616	0.0957100	0.27279421	2.3545755	20	2 26.8	20.2
403813 2011 UO_{117}	17.9	X	257.22509	13.90253	316.85341	4.25816	0.2176000	0.29549714	2.2323752	20	3 30.3	21.4
403814 2011 UJ_{124}	18.5	X	224.35827	331.01544	53.36060	4.11237	0.2360175	0.30053202	2.2073721	20	5 9.5	22.1
403815 2011 UA_{130}	17.8	X	346.24661	94.72825	134.90661	1.97016	0.1150148	0.29459962	2.2369070	20	3 31.4	19.9
403816 2011 UL_{133}	18.3	X	310.77885	3.91878	318.74525	2.15364	0.1856802	0.30844294	2.1694659	20	6 8.5	20.1
403817 2011 UR_{144}	17.0	X	263.54882	33.89350	271.94937	5.71115	0.1338202	0.28468403	2.2885513	20	3 12.3	20.2
403818 2011 UY_{144}	17.0	X	219.94329	23.42877	299.53651	8.44161	0.1731023	0.28121432	2.3073373	20	2 18.5	20.8
403819 2011 UD_{149}	16.1	X	227.85420	145.37167	219.88880	14.16535	0.0599365	0.17652262	3.1472831	20	5 4.5	20.7
403820 2011 UB_{159}	17.8	X	185.10191	216.32528	175.33691	6.48781	0.1151860	0.28790893	2.2714297	20	4 16.4	21.0
403821 2011 UN_{161}	17.1	X	214.51520	287.56859	28.19230	6.41347	0.1343347	0.27182877	2.3601472	20	2 11.0	20.7
403822 2011 UX_{161}	18.0	X	216.83681	311.45660	40.68543	6.05594	0.1840188	0.28506152	2.2865304	20	3 27.2	21.6
403823 2011 UD_{162}	18.2	X	217.82173	321.99364	47.41530	2.96672	0.2001969	0.28940761	2.2635812	20	4 16.8	21.8
403824 2011 UM_{164}	18.1	X	270.03734	276.68440	97.96888	4.84911	0.1605425	0.30918557	2.1659906	20	6 25.6	20.5
403825 2011 UY_{165}	17.1	X	165.34213	273.37591	92.78499	7.27203	0.1248611	0.27067618	2.3668425	20	2 25.8	20.6
403826 2011 UM_{179}	16.9	X	35.38187	219.90958	268.29324	8.87050	0.0602427	0.26278235	2.4140074	20	1 30.9	19.8
403827 2011 UC_{183}	18.0	X	268.37831	14.08954	325.07507	3.04733	0.2447329	0.29986909	2.2106242	20	4 19.3	21.3
403828 2011 UU_{185}	18.0	X	191.27094	223.05478	144.45796	5.94853	0.0855768	0.28153509	2.3055844	20	3 22.2	21.2
403829 2011 UT_{199}	16.9	X	104.84199	16.12331	318.26133	4.26274	0.2096219	0.24354517	2.5395087	20	—	—
403830 2011 UB_{210}	17.1	X	2.84771	272.98616	252.97011	5.53917	0.0686560	0.27146428	2.3622594	20	1 30.9	19.9
403831 2011 UA_{219}	17.6	X	165.62600	88.87464	162.91152	1.14256	0.1502997	0.24223316	2.5486703	20	12 31.8	21.5
403832 2011 UL_{237}	17.8	X	216.40715	286.80950	10.94314	2.24618	0.2082853	0.27116849	2.3639769	20	1 19.4	21.8
403833 2011 UD_{241}	18.1	X	275.99782	268.82649	16.58100	3.17347	0.1807735	0.29052549	2.2577710	20	2 26.8	21.2
403834 2011 UW_{244}	17.8	X	68.96016	175.30931	277.87897	1.61411	0.1847711	0.26348030	2.4097424	20	2 22.1	19.9
403835 2011 UW_{249}	18.3	X	283.84742	242.05269	61.85381	3.36937	0.1738043	0.29111568	2.2547184	20	4 2.0	21.0
403836 2011 UM_{251}	17.7	X	160.10053	260.47897	109.94443	4.58243	0.0994468	0.26842277	2.3800704	20	2 22.1	20.9
403837 2011 UR_{253}	17.7	X	217.82242	190.49863	117.91499	4.17801	0.1612929	0.26938113	2.3744222	20	2 2.7	21.3
403838 2011 UC_{254}	18.1	X	248.08907	358.08299	306.95751	3.30416	0.0827103	0.28338822	2.2955223	20	3 1.0	21.3
403839 2011 US_{263}	16.5	X	352.63754	217.55921	188.78229	14.54065	0.0349402	0.22946214	2.6423805	20	12 19.7	20.2
403840 2011 UW_{266}	17.7	X	99.83145	348.42373	119.66725	9.03944	0.2112088	0.27617575	2.3353162	20	5 7.8	21.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
403841 2011 UC_{268}	17.7	X	144.42209	5.50054	37.29225	3.98570	0.0883153	0.27308329	2.3529135	20	3 16.0	20.8
403842 2011 UX_{269}	17.6	X	103.51423	38.29845	55.08239	6.86991	0.0902836	0.27520444	2.3408078	20	4 3.1	20.5
403843 2011 UF_{278}	18.2	X	232.44942	51.24544	269.41838	5.94706	0.2136293	0.28146243	2.3059812	20	2 24.8	22.1
403844 2011 UX_{282}	17.6	X	238.09412	247.22786	64.09548	9.79579	0.1401282	0.27981569	2.3150196	20	2 29.9	21.2
403845 2011 UG_{283}	17.6	X	312.87452	211.47161	84.20486	5.98364	0.1963831	0.30073695	2.2063692	20	4 29.7	19.8
403846 2011 UD_{297}	18.5	X	233.82162	275.11068	75.40046	2.02418	0.1853107	0.29330486	2.2434852	20	4 8.1	21.9
403847 2011 UG_{300}	17.1	X	176.61996	310.18213	77.56142	5.89553	0.0900347	0.27979133	2.3151540	20	4 3.3	20.4
403848 2011 UX_{300}	17.5	X	61.13018	67.95328	32.69006	5.47870	0.0894518	0.26614530	2.3936290	20	2 9.4	20.1
403849 2011 UX_{301}	17.7	X	133.25165	50.57250	34.92866	4.15214	0.1281118	0.28376696	2.2934793	20	5 1.3	20.6
403850 2011 UK_{310}	17.5	X	71.25293	27.16606	52.84664	2.07708	0.1725429	0.26234172	2.4167096	20	2 6.9	19.8
403851 2011 UX_{313}	18.0	X	237.90229	223.58021	81.23456	3.48714	0.1959552	0.28037765	2.3119252	20	2 14.9	21.6
403852 2011 UM_{314}	17.9	X	144.82182	339.35772	64.43809	5.75701	0.1417441	0.27610905	2.3356923	20	3 24.6	21.2
403853 2011 UN_{315}	16.6	X	26.70398	186.77694	138.07316	4.31676	0.0857719	0.21482674	2.7610684	20	10 27.2	20.2
403854 2011 UD_{318}	17.5	X	177.28108	283.06186	60.24447	9.42304	0.1340947	0.26814266	2.3817277	20	2 10.7	21.2
403855 2011 UZ_{318}	17.9	X	83.84164	9.44286	72.99713	2.44828	0.1537742	0.26365934	2.4086514	20	2 29.0	20.6
403856 2011 UE_{341}	18.0	X	92.67787	41.48746	23.64826	2.70634	0.1741912	0.26483605	2.4015114	20	2 21.4	20.6
403857 2011 UL_{341}	18.8	X	288.64610	22.77852	273.58265	1.24256	0.2030884	0.29996240	2.2101657	20	3 21.3	21.8
403858 2011 UD_{344}	16.9	X	3.99659	146.76985	227.65895	5.52570	0.0207465	0.22524040	2.6752961	20	11 21.8	20.3
403859 2011 UY_{357}	17.5	X	345.66650	336.86922	234.94751	6.37853	0.0641176	0.27723789	2.3293478	20	3 7.2	20.2
403860 2011 UR_{382}	17.1	X	325.24961	83.68180	41.58363	2.76368	0.1484954	0.23467200	2.6031261	20	—	—
403861 2011 UT_{385}	16.7	X	0.43654	81.71016	12.66572	5.87835	0.2171215	0.23897286	2.5717989	20	—	—
403862 2011 UT_{389}	18.0	X	191.81187	47.05518	334.81945	6.01958	0.1731357	0.28620689	2.2804260	20	4 6.9	21.7
403863 2011 UU_{389}	17.1	X	82.19200	37.24558	64.49133	4.86590	0.1147878	0.27115625	2.3640481	20	3 18.9	19.8
403864 2011 VQ_{11}	17.5	X	79.46441	17.55414	62.91089	7.84546	0.0428417	0.26156192	2.4215106	20	2 5.3	20.5
403865 2011 VO_{13}	16.6	X	131.93232	204.80956	60.38794	15.36335	0.2334862	0.23071769	2.6327853	20	12 14.3	21.3
403866 2011 VK_{16}	17.4	X	296.64160	191.42307	47.76109	6.66511	0.0793297	0.27392874	2.3480697	20	2 7.5	20.5
403867 2011 VA_{19}	18.3	X	162.69942	100.21955	324.35597	4.96848	0.2317560	0.28585886	2.2822766	20	5 8.1	22.2
403868 2011 WN_{16}	17.4	X	116.50918	299.10038	94.31772	7.56984	0.1240004	0.25970417	2.4330447	20	2 4.8	20.5
403869 2011 WH_{19}	18.1	X	106.99594	349.84338	72.10974	2.46072	0.1712781	0.26464919	2.4026417	20	3 7.6	21.1
403870 2011 WX_{24}	17.6	X	123.91789	219.38297	203.94057	4.50253	0.1243527	0.27351420	2.3504416	20	3 20.6	20.8
403871 2011 WU_{25}	17.2	X	71.19445	162.41203	122.23872	1.39696	0.0437846	0.21430972	2.7655073	20	10 26.2	21.0
403872 2011 WJ_{35}	17.0	X	221.65520	298.02886	249.26501	2.16833	0.0968230	0.22480318	2.6787638	20	12 14.2	20.7
403873 2011 WN_{37}	17.9	X	61.30141	223.49756	227.19095	0.63693	0.1559246	0.25987977	2.4319486	20	2 1.0	19.9
403874 2011 WD_{47}	17.0	X	318.21808	81.52880	32.15306	3.86313	0.1579665	0.23031120	2.6358823	20	—	—
403875 2011 WP_{62}	17.2	X	37.27336	343.51590	22.49820	7.96840	0.1087009	0.23072696	2.6327148	20	—	—
403876 2011 WH_{66}	18.0	X	173.43975	350.88115	22.55013	1.98246	0.1945102	0.27480988	2.3430478	20	3 15.0	21.6
403877 2011 WN_{66}	17.2	X	20.73385	49.79183	47.61825	0.68363	0.1458008	0.24418528	2.5350687	20	—	—
403878 2011 WH_{72}	17.2	X	173.01917	352.67096	47.31529	6.13524	0.1615176	0.27996469	2.3141981	20	4 16.5	20.7
403879 2011 WN_{72}	17.3	X	139.35984	346.92377	70.59444	6.74529	0.1080309	0.27257917	2.3558137	20	4 2.8	20.6
403880 2011 WV_{82}	17.7	X	235.41730	255.53381	71.58685	6.54606	0.2258245	0.28451847	2.2894390	20	3 11.8	21.6
403881 2011 WF_{85}	18.3	X	121.80901	242.26068	168.59115	1.54542	0.1381557	0.26668504	2.3903984	20	3 4.9	21.3
403882 2011 WV_{90}	17.2	X	107.64458	313.51311	81.14096	7.76951	0.1300452	0.25716663	2.4490236	20	1 26.9	20.2
403883 2011 WU_{96}	17.6	X	275.34780	163.88987	150.01284	2.84944	0.1866443	0.29002673	2.2603587	20	4 3.2	20.5
403884 2011 WD_{105}	15.9	X	138.85622	44.47787	95.84653	12.58526	0.0731724	0.18181660	3.0858894	20	7 13.8	20.5
403885 2011 WB_{106}	18.1	X	100.63226	3.11588	53.95881	4.23471	0.0699109	0.26241016	2.4162894	20	2 6.3	21.0
403886 2011 WW_{114}	17.4	X	176.56590	283.68826	105.26710	5.06904	0.2035206	0.28060418	2.3106808	20	4 8.4	21.2
403887 2011 WO_{116}	17.0	X	346.64041	86.03267	30.41564	4.91175	0.1264649	0.23908875	2.5709677	20	—	—
403888 2011 WP_{116}	17.9	X	110.43400	345.34833	68.95502	2.60587	0.1818142	0.26400211	2.4065661	20	3 3.4	20.9
403889 2011 WU_{117}	17.7	X	108.34878	345.88236	82.11341	7.70811	0.1438618	0.26970747	2.3725065	20	3 15.9	20.8
403890 2011 WO_{124}	17.7	X	171.42708	250.79117	99.48862	2.63983	0.0529421	0.26719089	2.3873804	20	2 4.3	20.8
403891 2011 WM_{131}	17.7	X	189.25019	281.90983	77.95450	8.08875	0.0962933	0.27404577	2.3474012	20	3 13.7	21.2
403892 2011 WC_{142}	18.0	X	253.26782	72.34229	244.42779	5.57921	0.1526247	0.28516826	2.2859598	20	3 13.9	21.3
403893 2011 WX_{144}	17.1	X	72.84572	10.01307	7.47653	3.50506	0.0227857	0.23772238	2.5808098	20	—	—
403894 2011 WG_{152}	17.8	X	205.71167	48.03772	301.37839	7.78480	0.1934175	0.28268067	2.2993512	20	3 8.5	21.7
403895 2011 WS_{152}	17.5	X	345.48839	337.49538	147.63040	8.49944	0.0920543	0.24404804	2.5360190	20	—	—
403896 2011 WR_{153}	16.5	X	193.86587	285.88063	169.10335	9.34320	0.1325699	0.18515204	3.0487165	20	7 13.3	21.5
403897 2011 YX	15.8	X	307.60405	254.12943	98.13075	16.94253	0.0483587	0.18197173	3.0841354	20	7 31.4	20.0
403898 2011 YL_{2}	15.8	X	17.87333	140.99494	283.87249	21.22589	0.0392647	0.22813627	2.6526085	20	—	—
403899 2011 YL_{7}	16.2	X	320.92394	334.73917	105.20303	14.84258	0.1658510	0.21335890	2.7737173	20	12 17.8	19.0
403900 2011 YC_{14}	17.5	X	4.30807	74.08657	16.83299	3.48631	0.1362439	0.23337082	2.6127931	20	—	—
403901 2011 YQ_{17}	16.4	X	189.69815	246.61852	275.10410	9.79791	0.0784068	0.19334465	2.9619742	20	9 29.1	21.0
403902 2011 YU_{22}	17.5	X	18.35089	24.92198	55.37869	3.62593	0.1426620	0.23375482	2.6099308	20	—	—
403903 2011 YV_{24}	15.8	X	98.03838	110.08244	104.07160	12.14311	0.0826843	0.17838839	3.1252996	20	9 3.1	20.5
403904 2011 YJ_{36}	15.9	X	157.30281	58.22567	108.79574	10.73185	0.1111241	0.18145844	3.0899487	20	9 9.3	20.9
403905 2011 YD_{38}	16.0	X	212.11714	202.41653	298.54698	10.80229	0.0207219	0.19158201	2.9801141	20	10 3.4	20.5
403906 2011 YO_{40}	17.3	X	44.03168	168.83042	264.36623	2.24355	0.1150167	0.24093575	2.5578116	20	—	—
403907 2011 YT_{42}	18.2	X	228.61730	45.88926	324.00018	5.10396	0.1962179	0.28691844	2.2766542	20	4 24.7	21.8
403908 2011 YO_{44}	18.3	X	157.88059	226.25181	187.07823	2.00135	0.1858095	0.27259478	2.3557238	20	4 19.9	22.0
403909 2011 YQ_{45}	17.8	X	43.32202	253.37752	183.13806	3.33941	0.1803253	0.24073195	2.5592550	20	—	—
403910 2011 YQ_{46}	16.7	X	25.20565	266.41852	88.58907	7.96090	0.0573898	0.20545181	2.8444354	20	11 25.9	20.6
403911 2011 YX_{47}	16.9	X	275.96725	188.24251	2.59004	3.25834	0.0962928	0.24034505	2.5620008	20	—	—
403912 2011 YD_{51}	17.3	X	90.72746	352.27630	105.96208	3.73605	0.1385634	0.26405136	2.4062668	20	3 30.7	20.2
403913 2011 YQ_{56}	13.9	X	335.96354	291.60131	99.89938	5.52111	0.0376336	0.08361857	5.1792581	20	10 13.2	20.6
403914 2011 YR_{59}	16.5	X	231.51706	34.94015	118.04348	13.12883	0.0777435	0.20317598	2.8656367	20	11 15.9	20.8
403915 2011 YS_{59}	16.1	X	349.12829	311.06106	116.78985	15.85205	0.0747483	0.21739498	2.7392797	20	—	—
403916 2011 YE_{60}	16.6	X	128.80285	24.13125	274.37535	7.18072	0.0839583	0.21660311	2.7459519	20	—	—
403917 2011 YJ_{64}	16.8	X	116.90141	308.35674	108.95469	13.66020	0.1854508	0.25973070	2.4328791	20	3 21.1	20.4
403918 2011 YL_{67}	17.2	X	51.85182	63.68011	336.86027	5.53226	0.0603176	0.22786715	2.6546966	20	—	—
403919 2011 YH_{68}	15.9	X	185.77695	94.05384	111.81556	13.57147	0.0435641	0.20313459	2.8660260	20	11 30.0	20.2
403920 2011 YB_{75}	15.6	X	162.39049	65.59031	94.72272	15.83351	0.1230665	0.18051451	3.1007111	20	9 8.6	20.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
403921 2012 AC_{7}	16.7	X	351.19911	175.59525	285.41124	11.88193	0.2398637	0.22897397	2.6461349	20	—	—
403922 2012 AF_{8}	17.6	X	156.67433	261.61431	113.00756	3.21981	0.2014127	0.26061163	2.4273935	20	3 3.7	21.3
403923 2012 AK_{9}	16.7	X	120.49892	213.57766	135.09129	14.87765	0.1823778	0.23520948	2.5991589	20	—	—
403924 2012 AG_{13}	16.9	X	151.12034	287.30051	104.96102	14.07990	0.2184738	0.26456527	2.4031497	20	3 27.3	21.0
403925 2012 AV_{13}	15.9	X	194.37829	163.14620	328.50978	8.94662	0.0307300	0.18288596	3.0738486	20	9 2.9	20.3
403926 2012 AY_{16}	15.5	X	136.58233	213.07390	305.05662	16.19132	0.1624738	0.17441069	3.1726389	20	8 5.8	20.7
403927 2012 AP_{17}	17.5	X	65.42261	262.76645	226.20882	1.18626	0.1226828	0.25805404	2.4434059	20	3 30.6	20.2
403928 2012 AE_{20}	16.3	X	165.60306	306.04057	304.82018	12.16792	0.1260875	0.21164270	2.7886918	20	12 26.9	20.8
403929 2012 BX_{3}	18.0	X	191.50971	292.02951	113.28931	6.35154	0.1766526	0.28154674	2.3055208	20	5 11.9	21.7
403930 2012 BT_{9}	17.0	X	21.19467	270.25819	152.08124	13.23803	0.2138562	0.22400817	2.6850980	20	—	—
403931 2012 BY_{11}	17.1	X	195.49632	235.44092	348.13849	3.01884	0.0385120	0.21204487	2.7851646	20	—	—
403932 2012 BY_{15}	17.2	X	117.27401	308.61875	125.20154	3.30960	0.1873337	0.26242041	2.4162265	20	4 7.4	20.6
403933 2012 BZ_{15}	16.9	X	174.43735	243.29261	127.19548	3.65861	0.1768692	0.26129769	2.4231428	20	3 13.2	20.6
403934 2012 BN_{17}	16.3	X	18.81388	97.73618	325.60922	16.54525	0.1221553	0.22473188	2.6793303	20	—	—
403935 2012 BR_{18}	16.4	X	79.12660	129.48593	151.81329	12.91304	0.1059492	0.18640103	3.0350826	20	11 6.7	21.1
403936 2012 BE_{20}	16.5	X	125.94599	110.70643	77.46138	12.09836	0.0927386	0.18017883	3.1045611	20	9 4.4	21.4
403937 2012 BH_{20}	16.6	X	34.56024	304.13118	112.95524	14.74883	0.0560492	0.22703203	2.6612028	20	—	—
403938 2012 BS_{20}	15.6	X	83.58253	289.32559	301.62249	9.87849	0.0586229	0.17769734	3.1333970	20	8 27.2	20.2
403939 2012 BD_{21}	16.0	X	311.07943	139.44720	325.51577	15.93599	0.2480957	0.21335079	2.7737877	20	—	—
403940 2012 BH_{25}	15.3	X	70.76943	318.39427	291.05070	12.51912	0.0772042	0.17957508	3.1115157	20	9 3.7	19.9
403941 2012 BY_{25}	16.9	X	315.82254	139.53089	304.05875	3.29342	0.0388159	0.21219226	2.7838748	20	12 12.4	20.5
403942 2012 BB_{28}	15.8	X	202.11046	342.45028	144.23097	11.93478	0.0353818	0.17805943	3.1291477	20	9 7.8	20.4
403943 2012 BJ_{28}	16.2	X	254.29682	19.55165	137.62607	6.71988	0.0639641	0.21082368	2.7959096	20	12 19.4	19.9
403944 2012 BW_{28}	16.1	X	297.17712	242.72362	114.49337	17.31568	0.0913054	0.18045606	3.1013807	20	7 15.9	20.2
403945 2012 BW_{30}	16.8	X	341.29996	282.81362	133.77296	9.67422	0.0399028	0.21179239	2.7873777	20	12 14.2	20.6
403946 2012 BU_{31}	16.8	X	229.77008	240.67512	326.31868	8.16269	0.0876359	0.21864308	2.7288451	20	—	—
403947 2012 BN_{33}	16.5	X	298.64400	29.01523	92.57438	9.89322	0.0723958	0.21604300	2.7506959	20	—	—
403948 2012 BD_{35}	16.5	X	334.28721	344.58868	101.92663	6.65699	0.0535320	0.21573476	2.7533154	20	—	—
403949 2012 BS_{37}	17.2	X	342.66271	0.39197	69.22700	1.60755	0.0550377	0.21415260	2.7668598	20	—	—
403950 2012 BF_{39}	16.7	X	329.86398	74.86353	313.11439	8.15483	0.0332271	0.19613129	2.9338515	20	10 14.2	20.8
403951 2012 BV_{39}	17.5	X	341.40349	66.06012	29.87533	2.55579	0.1857403	0.22392128	2.6857926	20	—	—
403952 2012 BA_{45}	17.5	X	174.09077	280.09644	78.94134	1.78034	0.2284649	0.26095437	2.4252676	20	2 29.8	21.6
403953 2012 BP_{47}	15.2	X	146.43707	177.31052	346.70234	17.26386	0.1504672	0.17363613	3.1820670	20	8 25.8	20.4
403954 2012 BL_{48}	16.7	X	328.05634	351.16274	123.95409	14.68337	0.0153477	0.22383939	2.6864476	20	—	—
403955 2012 BP_{48}	16.4	X	77.11254	97.50048	125.45156	5.64832	0.1059940	0.17308462	3.1888229	20	8 19.5	20.8
403956 2012 BC_{52}	17.0	X	38.18728	119.14296	309.71478	16.67791	0.2091207	0.23286155	2.6166012	20	—	—
403957 2012 BE_{52}	16.8	X	48.82441	91.85173	295.57024	4.91041	0.0852589	0.21826382	2.7320054	20	—	—
403958 2012 BC_{53}	15.7	X	106.44940	295.91932	329.76849	8.14489	0.0713199	0.19050831	2.9913009	20	11 7.6	20.2
403959 2012 BD_{53}	16.2	X	194.45737	7.96505	139.92913	11.49789	0.0422052	0.18315931	3.0707896	20	9 27.1	20.8
403960 2012 BH_{55}	16.0	X	176.95110	136.69704	7.24357	7.64199	0.0677363	0.17397023	3.1779917	20	8 30.2	20.8
403961 2012 BJ_{55}	16.9	X	348.63797	75.59234	8.59493	6.03731	0.1437301	0.21532830	2.7567791	20	—	—
403962 2012 BN_{56}	17.4	X	64.79513	45.60341	358.45958	5.36341	0.1187517	0.22737259	2.6585447	20	—	—
403963 2012 BX_{56}	16.0	X	319.53206	143.98792	318.27888	10.91493	0.1588886	0.21486908	2.7607056	20	—	—
403964 2012 BR_{59}	16.4	X	223.05907	263.74205	323.64135	8.96786	0.0818223	0.22229926	2.6988414	20	—	—
403965 2012 BA_{68}	17.5	X	90.30087	178.70442	205.60452	1.87535	0.0660044	0.23525441	2.5988279	20	—	—
403966 2012 BC_{74}	15.7	X	103.59144	119.67698	130.67975	14.08330	0.1340175	0.18699953	3.0286032	20	10 30.6	20.7
403967 2012 BA_{75}	16.6	X	234.36449	351.43381	133.87073	8.41521	0.2096819	0.19223251	2.9733874	20	9 26.0	21.2
403968 2012 BA_{78}	16.5	X	108.44121	1.95609	282.09919	5.80082	0.0333532	0.20725348	2.8279268	20	12 5.3	20.6
403969 2012 BT_{78}	15.4	X	90.88034	288.79830	328.94398	15.41779	0.0638519	0.18482558	3.0523055	20	10 5.7	20.1
403970 2012 BY_{78}	16.7	X	1.77830	18.08837	27.67030	6.25481	0.0365788	0.21198649	2.7856759	20	12 26.9	20.5
403971 2012 BJ_{80}	17.6	X	84.21170	295.04765	72.49084	3.12756	0.0981261	0.22789669	2.6544673	20	—	—
403972 2012 BQ_{83}	17.7	X	253.28975	277.53677	97.69235	4.93775	0.1983733	0.28955875	2.2627935	20	5 30.1	20.9
403973 2012 BV_{83}	17.5	X	323.32569	78.26390	356.25059	3.97778	0.0499424	0.20824641	2.8189305	20	12 9.9	21.1
403974 2012 BU_{87}	17.1	X	25.11589	354.61259	99.41933	13.33944	0.2024018	0.23576113	2.5951029	20	—	—
403975 2012 BV_{87}	16.3	X	227.99042	39.21708	84.67173	6.44324	0.2034119	0.19100853	2.9860762	20	9 19.0	21.0
403976 2012 BJ_{93}	17.0	X	202.70242	115.33422	38.66645	3.36173	0.0942851	0.19148060	2.9811663	20	10 7.9	21.6
403977 2012 BX_{93}	17.2	X	140.57625	36.40971	347.47228	1.91598	0.2119316	0.25455705	2.4657325	20	2 29.6	21.0
403978 2012 BO_{100}	17.2	X	54.90746	279.06918	125.46435	7.11538	0.0540141	0.22773048	2.6557587	20	—	—
403979 2012 BR_{103}	15.7	X	156.96436	62.35090	86.83999	11.86867	0.0966441	0.17384153	3.1795600	20	8 16.9	20.8
403980 2012 BX_{103}	16.2	X	107.74356	84.63449	111.71616	16.26789	0.1459211	0.17166575	3.2063698	20	8 28.2	21.3
403981 2012 BY_{103}	17.2	X	31.71721	85.57105	326.57835	11.41118	0.1699189	0.22833560	2.6510645	20	—	—
403982 2012 BL_{104}	15.6	X	259.41628	275.12968	115.41829	15.40067	0.0933575	0.17421680	3.1749924	20	7 8.1	20.2
403983 2012 BP_{105}	15.6	X	147.97052	73.31985	101.07936	16.84621	0.2036546	0.17545967	3.1599813	20	9 13.5	21.2
403984 2012 BR_{106}	15.6	X	143.70152	56.75193	116.24917	17.71599	0.0752854	0.17789601	3.1310637	20	9 1.5	20.5
403985 2012 BG_{109}	16.6	X	73.34864	319.07507	328.59662	7.17610	0.0954363	0.19112736	2.9848383	20	10 31.5	21.0
403986 2012 BO_{109}	15.7	X	31.72529	182.06691	126.12504	16.44838	0.1004195	0.18484643	3.0520759	20	10 14.1	20.0
403987 2012 BD_{111}	17.0	X	45.87154	75.41586	311.28003	8.50843	0.0428593	0.21601967	2.7508940	20	—	—
403988 2012 BW_{113}	16.4	X	172.01969	23.41358	133.05273	4.85934	0.0699861	0.18229381	3.0805015	20	9 9.1	21.0
403989 2012 BR_{115}	16.6	X	303.18189	336.37234	132.22478	14.60483	0.0465085	0.21143265	2.7905385	20	12 27.1	20.3
403990 2012 BK_{120}	17.0	X	161.96729	104.48056	162.16892	2.99122	0.0270713	0.21502278	2.7593899	20	—	—
403991 2012 BJ_{122}	16.6	X	208.36242	69.17904	87.77260	2.39052	0.0361515	0.18801415	3.0176974	20	10 23.3	20.9
403992 2012 BS_{122}	16.8	X	308.99522	131.83808	342.33491	4.67584	0.0149570	0.21338723	2.7734719	20	—	—
403993 2012 BL_{124}	16.9	X	349.71513	0.11398	138.83484	9.80400	0.0344792	0.23695076	2.5864096	20	—	—
403994 2012 BD_{128}	16.7	X	57.94087	270.03610	129.24488	10.27230	0.1051933	0.22659280	2.6646406	20	—	—
403995 2012 BQ_{130}	15.6	X	340.24309	241.70894	87.45400	11.12344	0.0921132	0.17517523	3.1634010	20	8 17.3	19.7
403996 2012 BU_{130}	15.6	X	141.64337	70.09267	120.51125	23.30580	0.0377274	0.18038534	3.1021911	20	9 23.2	20.5
403997 2012 BX_{131}	15.5	X	238.41035	254.91372	150.69648	17.11088	0.1048937	0.17217909	3.1999936	20	7 1.2	20.5
403998 2012 BD_{132}	16.5	X	300.46377	134.80266	341.39909	7.35665	0.1759939	0.21304276	2.7764607	20	12 26.9	19.5
403999 2012 BR_{136}	16.0	X	129.56096	260.48274	315.99169	10.94331	0.1482715	0.18187447	3.0852348	20	10 4.3	21.2
404000 2012 BH_{137}	16.9	X	275.16091	155.10091	300.38856	1.01265	0.0659404	0.19712379	2.9239954	20	10 26.2	20.8