Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
452001 2014 OP_{46}	17.0	X	0.50581	343.59667	70.55326	2.33397	0.1578534	0.17892116	3.1190924	21	12 29.8	20.7
452002 2014 OG_{48}	16.9	X	108.80608	262.18062	63.26931	2.77466	0.0948289	0.19010661	2.9955132	21	—	—
452003 2014 OR_{48}	16.7	X	73.74780	34.61967	333.65787	8.52350	0.1280071	0.18998157	2.9968275	21	—	—
452004 2014 OA_{54}	16.6	X	268.11061	75.77056	82.74059	3.35904	0.0167152	0.18812173	3.0165469	21	12 30.4	20.8
452005 2014 OL_{54}	17.1	X	41.07698	321.24892	106.91277	3.23166	0.0838459	0.20074573	2.8887182	21	—	—
452006 2014 OX_{57}	17.2	X	290.81485	186.66022	52.30763	3.33585	0.1306321	0.23334398	2.6129934	21	1 17.9	20.9
452007 2014 OB_{67}	15.9	X	70.77956	236.02555	88.42305	4.39737	0.0401865	0.17384796	3.1794816	21	11 27.8	20.4
452008 2014 OU_{87}	17.0	X	166.22650	122.89034	220.26158	5.67413	0.0304789	0.22251760	2.6970757	21	1 12.8	20.8
452009 2014 OO_{88}	16.6	X	93.44202	217.09384	159.20442	6.20977	0.0920536	0.20455603	2.8527334	21	—	—
452010 2014 OO_{90}	17.5	X	114.36646	139.58164	263.74399	6.82474	0.2304294	0.21629417	2.7485660	21	2 20.8	21.5
452011 2014 OT_{92}	16.6	X	228.79592	108.72269	170.69121	5.14560	0.0857713	0.22353627	2.6888757	21	1 6.7	20.6
452012 2014 OC_{93}	16.0	X	27.01027	82.58073	258.44461	6.61734	0.0448480	0.16496441	3.2926271	21	10 21.5	20.6
452013 2014 OA_{97}	16.8	X	69.80635	160.94031	335.35070	13.55946	0.1565043	0.22871638	2.6481213	21	4 5.8	20.2
452014 2014 OJ_{104}	16.8	X	58.84894	68.09824	324.30270	8.56694	0.0646111	0.19181842	2.9776650	21	—	—
452015 2014 OO_{114}	17.1	X	125.87549	94.27740	226.89039	1.18648	0.0244565	0.19868859	2.9086230	21	—	—
452016 2014 OX_{114}	17.5	X	78.53811	155.36746	256.52931	3.52481	0.0675872	0.21368093	2.7709299	21	—	—
452017 2014 OO_{117}	16.9	X	6.37019	339.37207	118.78189	3.09262	0.0253233	0.20353586	2.8622579	21	—	—
452018 2014 OJ_{119}	17.1	X	78.67056	256.37941	88.14187	2.39368	0.0681614	0.18706177	3.0279313	21	—	—
452019 2014 OU_{119}	16.3	X	1.97820	290.73008	101.58886	8.25890	0.1415996	0.17101123	3.2145459	21	12 2.1	20.2
452020 2014 OG_{120}	17.2	X	217.00767	267.50444	4.35872	4.12891	0.0370110	0.21526056	2.7573575	21	—	—
452021 2014 OL_{122}	16.8	X	44.20705	343.01307	119.30737	5.75876	0.0221997	0.21993820	2.7181220	21	1 7.9	20.2
452022 2014 OD_{124}	17.2	X	158.93201	199.88220	117.19336	5.36554	0.0592265	0.20950914	2.8075925	21	—	—
452023 2014 OG_{125}	17.1	X	326.40001	112.72587	43.36724	4.31997	0.0378855	0.21247943	2.7813658	21	—	—
452024 2014 OY_{125}	17.1	X	69.88778	275.94091	84.25930	1.67979	0.0981343	0.18863923	3.0110274	21	—	—
452025 2014 OS_{135}	16.7	X	271.02123	126.37632	95.10295	5.23940	0.0244399	0.21767378	2.7369402	21	—	—
452026 2014 OA_{138}	17.2	X	168.61963	107.56583	205.99622	2.40810	0.0606288	0.21292067	2.7775219	21	—	—
452027 2014 OE_{141}	16.1	X	78.28362	239.79209	118.03430	16.26148	0.0238649	0.19236189	2.9720540	21	—	—
452028 2014 OD_{151}	17.1	X	165.69685	295.16973	54.48949	6.38217	0.0962408	0.22389917	2.6859694	21	1 29.7	21.1
452029 2014 OC_{152}	16.5	X	102.11049	344.00858	328.16250	9.47185	0.1208585	0.18591550	3.0403645	21	12 28.5	21.3
452030 2014 OP_{154}	16.9	X	111.23221	323.89959	55.74826	5.11904	0.0844296	0.21296784	2.7771118	21	1 1.8	20.6
452031 2014 OL_{155}	16.0	X	315.99164	21.37263	46.79790	6.58353	0.1641314	0.16857319	3.2454659	21	10 28.1	19.7
452032 2014 OO_{165}	16.5	X	47.44892	351.96746	24.39855	5.53410	0.0387129	0.18716723	3.0267938	21	—	—
452033 2014 OQ_{165}	16.4	X	83.71135	307.96278	38.74915	4.98546	0.1689831	0.18657415	3.0332048	21	—	—
452034 2014 OD_{166}	17.0	X	244.93831	295.86797	350.14385	7.00567	0.1988064	0.23373030	2.6101134	21	1 26.6	21.3
452035 2014 OQ_{166}	16.7	X	4.07128	67.21601	11.64848	7.07967	0.1173018	0.19244463	2.9712020	21	—	—
452036 2014 OC_{167}	17.3	X	217.15017	271.25280	29.05055	6.07527	0.0112396	0.22555328	2.6728215	21	1 21.9	21.0
452037 2014 OW_{167}	16.5	X	328.34210	52.09233	12.44661	8.86589	0.1070194	0.17285848	3.1916035	21	11 14.1	20.5
452038 2014 OM_{169}	16.0	X	59.78550	341.63666	354.23061	9.16911	0.0810263	0.17523998	3.1626218	21	12 1.9	20.7
452039 2014 OB_{178}	16.1	X	41.89457	24.83690	340.65346	14.74148	0.0692432	0.17918794	3.1159958	21	12 16.5	20.7
452040 2014 OF_{179}	15.4	X	42.03288	248.22686	104.36018	17.05247	0.0813446	0.17353174	3.1833430	21	12 4.8	19.9
452041 2014 OG_{181}	16.6	X	130.57590	312.13836	107.38532	12.84726	0.1827959	0.22446118	2.6814841	21	4 2.1	20.9
452042 2014 OG_{199}	17.0	X	29.95574	292.33563	281.52589	3.24464	0.0499719	0.25956206	2.4339328	21	5 11.4	19.8
452043 2014 OQ_{202}	16.5	X	349.97020	207.25741	321.44370	10.13768	0.0704494	0.22697219	2.6616705	21	1 14.9	19.9
452044 2014 OX_{209}	17.0	X	23.26692	340.62301	57.08548	2.92065	0.0195930	0.18522192	3.0479496	21	12 27.2	21.2
452045 2014 OT_{216}	17.3	X	84.51352	356.34968	51.82099	5.27096	0.0684323	0.21436769	2.7650087	21	—	—
452046 2014 OY_{239}	17.3	X	18.73354	14.34067	72.51775	3.08365	0.0287883	0.20443761	2.8538349	21	—	—
452047 2014 OD_{240}	17.0	X	61.12616	330.99900	49.34468	3.27477	0.1123259	0.19058256	2.9905239	21	—	—
452048 2014 OF_{240}	16.5	X	76.35230	305.58169	21.76429	1.02488	0.1886612	0.17781069	3.1320653	21	12 25.4	21.2
452049 2014 OC_{243}	16.5	X	358.01464	26.32059	53.78587	2.70404	0.0186005	0.19203099	2.9754672	21	—	—
452050 2014 OL_{243}	17.5	X	342.87559	247.79063	11.20806	6.68559	0.1006144	0.26426316	2.4049809	21	4 24.6	20.2
452051 2014 OA_{246}	16.6	X	291.50024	288.55156	353.79307	8.05740	0.1417532	0.25113058	2.4881104	21	3 9.9	19.9
452052 2014 OA_{253}	16.1	X	210.82452	194.14283	343.63924	11.19465	0.0351881	0.17547916	3.1597473	21	11 6.2	20.9
452053 2014 OP_{253}	17.0	X	165.30876	294.20829	29.27863	3.85937	0.0922584	0.21286845	2.7779762	21	—	—
452054 2014 OG_{274}	16.3	X	98.96612	269.67187	20.36282	9.42854	0.0849879	0.17430192	3.1739587	21	11 21.7	21.2
452055 2014 ON_{274}	15.7	X	108.09686	206.20444	106.08706	16.93221	0.0592259	0.18453789	3.0554769	21	12 29.2	20.3
452056 2014 OZ_{280}	16.5	X	352.89203	51.23836	85.70333	9.46559	0.0818766	0.20978235	2.8051543	21	—	—
452057 2014 OB_{286}	16.2	X	319.18966	71.40522	30.79362	9.88890	0.0589989	0.17939688	3.1135759	21	12 22.2	20.4
452058 2014 OW_{301}	17.4	X	112.35989	230.66009	153.90570	4.65478	0.0822841	0.21474962	2.7617293	21	1 8.0	21.0
452059 2014 OW_{303}	17.2	X	75.46520	346.07448	94.52065	6.37575	0.0405738	0.22355378	2.6887352	21	1 23.4	20.7
452060 2014 OV_{304}	16.9	X	339.37827	34.40071	92.57650	3.20251	0.0126398	0.20380528	2.8597348	21	—	—
452061 2014 OU_{305}	17.1	X	27.77409	346.57781	47.37571	1.69696	0.1980919	0.17989821	3.1077888	21	—	—
452062 2014 OY_{308}	16.8	X	154.61646	224.54283	119.33487	6.51894	0.0478491	0.21759827	2.7375733	21	1 4.1	20.7
452063 2014 ON_{310}	17.7	X	353.02423	293.70561	309.50020	4.16420	0.1779627	0.26346648	2.4098267	21	4 9.2	19.8
452064 2014 OE_{311}	17.4	X	336.93086	85.76495	86.90113	3.85169	0.0075296	0.22184718	2.7025066	21	1 10.4	21.0
452065 2014 OC_{313}	17.3	X	96.92980	355.86036	13.24963	1.99783	0.0801852	0.20298309	2.8674519	21	—	—
452066 2014 OP_{324}	17.1	X	75.80114	322.15815	112.59256	6.50397	0.1057863	0.21935951	2.7229003	21	1 24.0	20.4
452067 2014 OY_{330}	17.2	X	209.41235	273.71841	13.00842	2.16138	0.0844927	0.21830624	2.7316514	21	—	—
452068 2014 OE_{333}	16.7	X	32.03491	72.49040	336.36915	11.20530	0.0352608	0.19265030	2.9690870	21	—	—
452069 2014 OD_{334}	16.0	X	97.30275	87.31950	238.69976	10.55434	0.1336748	0.18461753	3.0545983	21	—	—
452070 2014 OR_{340}	16.5	X	28.88230	38.85927	20.37277	4.58590	0.1394534	0.18948004	3.0021133	21	—	—
452071 2014 OE_{351}	16.8	X	152.02254	31.18053	283.95986	4.98111	0.0559441	0.20476565	2.8507862	21	—	—
452072 2014 ON_{353}	16.6	X	63.11142	108.06109	278.24381	9.51271	0.1031552	0.19285407	2.9669952	21	—	—
452073 2014 OS_{353}	16.3	X	97.08582	45.52657	275.96269	7.93880	0.0329083	0.18476076	3.0530194	21	12 25.4	20.6
452074 2014 OQ_{358}	16.3	X	124.72254	97.98607	171.54869	5.77909	0.0792077	0.16871966	3.2435873	21	11 26.2	21.2
452075 2014 OW_{365}	16.1	X	349.72628	239.28529	136.11554	6.03112	0.0712223	0.15338405	3.4563357	21	10 17.6	20.6
452076 2014 OQ_{377}	16.9	X	142.11280	295.47343	33.72857	2.40888	0.0667503	0.20296824	2.8675918	21	—	—
452077 2014 OR_{380}	16.0	X	54.10781	162.11490	176.55858	9.37950	0.0872282	0.17452689	3.1712305	21	12 2.4	20.6
452078 2014 OG_{382}	16.8	X	121.82143	142.86389	136.00302	1.59873	0.1460150	0.18112409	3.0937502	21	12 8.5	21.8
452079 2014 OC_{385}	16.4	X	43.48607	194.08073	276.08226	10.40198	0.1345496	0.22272085	2.6954346	21	1 17.0	19.2
452080 2014 OJ_{386}	16.8	X	259.35026	319.46728	294.28656	13.80673	0.0179906	0.22278457	2.6949206	21	1 13.7	20.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
452081 2014 PC_2	16.0	X	134.47894	260.27965	112.77750	13.94820	0.1359710	0.21764967	2.7371423	21	1 28.5	19.9
452082 2014 PR_5	16.7	X	63.32876	286.33614	79.06896	2.44214	0.0910532	0.18728855	3.0254866	21	—	—
452083 2014 PL_6	16.0	X	132.79095	13.46930	279.34180	9.09047	0.0612453	0.18863310	3.0110927	21	—	—
452084 2014 PH_{18}	16.3	X	18.00152	267.56448	135.21325	10.16721	0.1084665	0.17601416	3.1533412	21	—	—
452085 2014 PG_{19}	16.4	X	90.66435	186.60995	120.53809	10.12230	0.0987377	0.17259544	3.1948454	21	12 7.6	21.3
452086 2014 PK_{30}	17.7	X	330.44658	223.05537	116.21761	3.85498	0.1051058	0.27715667	2.3298028	21	8 6.9	19.7
452087 2014 PO_{32}	16.2	X	133.38547	156.92995	124.11854	9.07447	0.1587606	0.18123307	3.0925098	21	12 21.7	21.4
452088 2014 PZ_{33}	16.5	X	247.11410	187.51550	69.46405	4.68463	0.0491304	0.21344269	2.7729914	21	1 3.2	20.5
452089 2014 PA_{45}	16.7	X	177.40750	167.77746	136.42194	5.90426	0.1433243	0.21118906	2.7926839	21	—	—
452090 2014 PD_{55}	16.4	X	144.20465	319.41676	324.90623	7.17646	0.2118436	0.18541852	3.0457948	21	—	—
452091 2014 QV_{31}	15.6	X	62.38504	284.17941	102.20701	16.23974	0.1263622	0.17522004	3.1628617	21	—	—
452092 2014 QA_{34}	17.1	X	223.60578	92.02982	140.25441	9.28272	0.0303336	0.20149235	2.8815778	21	—	—
452093 2014 QL_{34}	16.4	X	350.35318	274.03732	144.24652	22.00559	0.2445455	0.17187168	3.2038081	21	12 25.3	20.1
452094 2014 QH_{35}	16.0	X	10.10861	116.69750	293.95936	10.19580	0.1530311	0.17923033	3.1155045	21	—	—
452095 2014 QM_{35}	16.4	X	73.82780	194.44498	141.62906	12.04500	0.1257420	0.17944925	3.1129701	21	12 26.7	21.1
452096 2014 QN_{35}	16.4	X	87.82934	192.67544	140.07500	16.36396	0.0294231	0.18538662	3.0461442	21	12 28.6	21.0
452097 2014 QB_{36}	17.1	X	150.72464	96.94009	260.15575	5.26221	0.0379035	0.21763150	2.7372947	21	1 13.9	21.0
452098 2014 QW_{50}	16.4	X	69.19132	194.63447	150.03507	10.98889	0.1091980	0.18071960	3.0983647	21	12 29.6	21.1
452099 2014 QJ_{83}	16.3	X	133.37465	94.45227	264.80803	8.04646	0.0480528	0.20866505	2.8151589	21	—	—
452100 2014 QD_{99}	16.4	X	102.56864	181.53650	178.16804	9.75661	0.0619884	0.19650712	2.9301096	21	—	—
452101 2014 QD_{161}	15.5	X	88.08108	325.53739	344.63157	16.88648	0.2171763	0.17784206	3.1316969	21	12 19.4	20.8
452102 2014 QS_{185}	16.2	X	340.33899	339.06965	168.16402	15.17458	0.0814386	0.20575097	2.8416775	21	—	—
452103 2014 QV_{202}	16.0	X	307.67287	312.38989	174.90842	6.81540	0.0765867	0.18241356	3.0791533	21	—	—
452104 2014 QB_{269}	15.9	X	303.11187	173.91436	316.65169	9.12040	0.0274361	0.18489254	3.0515685	21	—	—
452105 2014 QM_{283}	16.2	X	5.76633	3.40211	67.72836	12.09153	0.1329769	0.17871996	3.1214329	21	—	—
452106 2014 QV_{283}	15.9	X	185.11330	159.86666	68.35946	11.53102	0.1069592	0.17910762	3.1169273	21	12 7.1	20.7
452107 2014 QN_{284}	16.3	X	188.32837	179.86607	46.85007	13.75914	0.0418019	0.17704462	3.1410937	21	12 11.3	21.1
452108 2014 QZ_{309}	16.0	X	51.61873	344.16125	1.94839	15.85472	0.1043825	0.17785889	3.1314994	21	12 7.2	20.7
452109 2014 QS_{342}	16.2	X	94.54589	198.82769	142.63306	11.98610	0.0472642	0.18656908	3.0332598	21	—	—
452110 2014 QC_{372}	15.9	X	239.24839	174.40436	28.70854	10.63125	0.0241269	0.18019511	3.1043741	21	—	—
452111 2014 QY_{395}	16.9	X	107.93617	92.19053	359.60438	7.71870	0.1330145	0.21980676	2.7192054	21	4 3.4	20.7
452112 2014 QD_{400}	15.8	X	42.31995	299.20006	97.90774	11.87897	0.0660831	0.18307950	3.0716818	21	—	—
452113 2014 QX_{412}	16.6	X	343.25071	295.11308	153.13771	12.08679	0.0621581	0.18037980	3.1022547	21	—	—
452114 2014 QA_{425}	16.6	X	183.20141	264.29887	331.96258	14.29253	0.0455944	0.17931003	3.1145813	21	12 19.1	21.4
452115 2014 RJ_1	16.5	X	95.87019	191.17510	158.01572	10.39756	0.0504279	0.18625586	3.0366595	21	—	—
452116 2014 RD_{23}	16.0	X	39.66398	298.09970	80.66933	9.87354	0.0783624	0.17476919	3.1682988	21	12 30.0	20.4
452117 2014 RM_{24}	16.1	X	262.88358	331.27983	191.75026	10.86286	0.0790648	0.17889735	3.1193692	21	12 19.2	20.6
452118 2014 RP_{31}	16.2	X	31.30564	254.72964	144.01933	10.47142	0.0935798	0.18354801	3.0664526	21	—	—
452119 2014 RU_{34}	16.3	X	179.07081	173.12349	81.05728	5.66163	0.1374314	0.18482895	3.0522683	21	12 30.9	21.2
452120 2014 RK_{36}	17.0	X	14.40321	188.09779	18.22214	9.81657	0.0593292	0.23869070	2.5738252	21	4 8.9	19.9
452121 2014 SB_{37}	16.3	X	261.70826	161.60533	26.46096	4.78730	0.0586806	0.18418574	3.0593704	21	—	—
452122 2014 SB_{221}	15.9	X	39.38127	128.92433	291.81661	15.11825	0.2409528	0.18015829	3.1047970	21	—	—
452123 2014 SW_{225}	16.8	X	147.94877	113.93774	259.50190	1.13280	0.0662718	0.20979367	2.8050534	21	2 5.1	20.6
452124 2014 US_{14}	16.1	X	70.43754	31.02550	20.76315	7.23012	0.0522928	0.18031932	3.1029483	21	—	—
452125 2014 WL_{40}	16.2	X	315.36427	336.31478	282.78316	5.01513	0.1251349	0.22053593	2.7132084	21	3 14.0	19.9
452126 2014 WX_{66}	16.5	X	328.42425	64.48112	128.00911	5.16769	0.0466661	0.19370387	2.9583112	21	1 24.8	20.6
452127 2015 FU_{223}	18.0	X	249.57928	119.77881	158.65943	7.56615	0.2228665	0.29656397	2.2270183	21	1 9.5	21.7
452128 2015 KX_{120}	17.5	X	211.77171	236.92550	63.79939	4.31984	0.2561467	0.25756173	2.4465185	21	1 13.7	21.8
452129 2015 OR	17.7	X	229.87571	347.73426	341.13954	4.78859	0.2376382	0.26424423	2.4050958	21	2 27.9	21.7
452130 2015 OT_{39}	15.9	X	69.11338	329.24922	310.14961	14.75140	0.1209998	0.18164221	3.0878642	21	10 5.9	20.6
452131 2015 OM_{73}	16.1	X	355.42525	128.59560	289.36877	13.35561	0.3040198	0.17710219	3.1404129	21	—	—
452132 2015 PV	15.8	X	47.25134	154.17053	218.86167	12.50124	0.1745515	0.18698200	3.0287925	21	—	—
452133 2015 PT_{293}	16.3	X	130.60307	106.14895	168.22668	15.03866	0.1393604	0.20401725	2.8577536	21	12 15.1	21.2
452134 2015 PH_{303}	16.4	X	58.95107	270.23241	46.73753	9.83151	0.1083922	0.18611138	3.0382308	21	11 15.2	20.6
452135 2015 PS_{307}	17.3	X	219.03885	161.66466	154.81175	6.37081	0.1281896	0.26159714	2.4212932	21	2 4.6	21.1
452136 2015 PL_{308}	17.5	X	228.56545	158.12745	146.01754	3.02851	0.1499362	0.26622947	2.3931245	21	1 28.9	21.1
452137 2015 PZ_{308}	17.4	X	224.89479	233.03445	57.44165	3.22143	0.2127879	0.25928458	2.4356689	21	1 10.8	21.5
452138 2015 PV_{310}	16.2	X	99.45859	233.42040	103.97090	14.69583	0.1670263	0.21076433	2.7964345	21	—	—
452139 2015 QU	17.0	X	118.57263	301.11024	86.70279	4.67170	0.1965168	0.23289012	2.6163871	21	2 3.4	20.6
452140 2015 QR_9	17.9	X	153.37756	311.35480	72.76857	7.85124	0.3509102	0.24196252	2.5505704	21	3 20.2	22.5
452141 2015 QY_{10}	16.2	X	331.06354	98.95111	314.83313	8.13579	0.1191700	0.18619432	3.0373285	21	11 6.3	20.0
452142 2015 QG_{11}	17.3	X	151.34512	55.82802	351.41621	8.48083	0.2169596	0.25292280	2.4763426	21	3 30.4	21.2
452143 2015 RN_{18}	17.9	X	323.95825	275.18465	191.73746	21.71152	0.0854734	0.36929792	1.9240579	21	—	—
452144 2015 RL_{19}	18.1	X	238.07551	325.34265	52.05111	5.77382	0.2553812	0.28542824	2.2845715	21	5 3.5	21.9
452145 2015 RP_{28}	16.2	X	73.33079	142.90457	198.54342	9.92105	0.0273914	0.19970041	2.8987900	21	12 23.6	20.4
452146 2015 RC_{30}	16.7	X	10.18166	346.53882	20.21794	0.80721	0.1847481	0.17653093	3.1471843	21	11 17.7	20.3
452147 2015 RL_{30}	17.7	X	236.39008	242.16388	1.93904	19.92374	0.0789427	0.39439136	1.8415540	21	—	—
452148 2015 RA_{31}	16.2	X	59.20436	58.64558	264.25480	7.41173	0.1750183	0.18101874	3.0949504	21	12 1.1	20.7
452149 2015 RG_{33}	15.9	X	51.86478	224.72848	97.82642	16.15859	0.0564040	0.17144195	3.2091596	21	11 10.2	20.6
452150 2015 RB_{35}	17.7	X	255.19544	51.11157	303.33879	6.21722	0.1419186	0.28485603	2.2876299	21	4 25.7	21.2
452151 2015 RN_{37}	18.1	X	214.52980	39.78993	296.63411	0.91378	0.1844946	0.26432418	2.4046107	21	2 24.9	22.1
452152 2015 RR_{38}	16.3	X	19.76551	183.90466	174.96500	10.31957	0.0575411	0.18201281	3.0836713	21	11 11.3	20.5
452153 2015 RZ_{38}	17.7	X	144.86215	65.68552	338.90837	1.84888	0.1945769	0.25627406	2.4547068	21	3 19.9	21.3
452154 2015 RZ_{47}	16.2	X	338.36967	241.28784	184.03447	13.25380	0.1907363	0.18223650	3.0811473	21	12 8.7	19.7
452155 2015 RB_{48}	17.9	X	306.73018	62.10502	195.12298	6.26092	0.0928559	0.27136593	2.3628301	21	2 25.6	20.8
452156 2015 RX_{51}	16.3	X	45.88441	114.81392	186.32142	26.27533	0.2262255	0.17330255	3.1861489	21	10 27.9	20.7
452157 2015 RJ_{53}	16.8	X	66.18954	155.90785	201.79720	6.67552	0.1049625	0.19961203	2.8996455	21	—	—
452158 2015 RM_{54}	18.2	X	165.48720	192.17934	224.03229	1.90663	0.1817817	0.26688614	2.3891974	21	4 21.8	21.9
452159 2015 RH_{56}	16.1	X	63.23454	137.61669	188.99388	10.30795	0.1024809	0.18541721	3.0458092	21	12 2.6	20.5
452160 2015 RR_{56}	18.1	X	94.25840	293.83422	199.29404	4.29604	0.0711341	0.27275015	2.3548290	21	4 27.5	20.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
452161 2015 RY_{56}	16.9	X	205.46617	55.35186	190.03367	4.12697	0.0173007	0.21174396	2.7878026	21	—	—
452162 2015 RY_{57}	16.7	X	263.46973	214.75263	0.10699	11.06723	0.0598367	0.22674585	2.6634414	21	—	—
452163 2015 RZ_{63}	16.5	X	58.47413	353.98764	20.79347	1.89152	0.1089351	0.20289635	2.8682691	21	—	—
452164 2015 RY_{65}	16.7	X	140.75724	274.69536	6.13595	17.30845	0.1363580	0.20535095	2.8453667	21	—	—
452165 2015 RC_{69}	17.7	X	154.36475	131.51119	181.97361	2.67842	0.1833551	0.22613530	2.6682333	21	—	—
452166 2015 RV_{69}	17.4	X	191.56136	307.21661	5.24195	11.88604	0.1333451	0.24149858	2.5538359	21	1 10.9	21.5
452167 2015 RR_{72}	15.8	X	112.28758	245.45249	12.31618	11.84919	0.1107464	0.17771448	3.1331956	21	10 30.5	20.7
452168 2015 RV_{72}	17.8	X	193.64595	120.12598	174.73159	3.69639	0.1673742	0.23631426	2.5910518	21	—	—
452169 2015 RV_{74}	16.1	X	44.18666	5.95307	0.42726	9.53269	0.1205532	0.19134874	2.9825357	21	12 31.3	20.4
452170 2015 RX_{74}	17.7	X	269.34852	52.32506	223.08679	0.74544	0.1659561	0.26412339	2.4058293	21	1 31.2	21.3
452171 2015 RV_{75}	17.3	X	325.35515	262.48963	205.69625	0.91513	0.2861900	0.18678029	3.0309727	21	—	—
452172 2015 RV_{80}	17.0	X	194.53598	291.19318	345.90109	6.05158	0.0329693	0.22346557	2.6894427	21	—	—
452173 2015 RZ_{80}	17.4	X	81.02838	219.83103	185.73858	2.58849	0.0565361	0.22620882	2.6676552	21	—	—
452174 2015 RO_{81}	17.4	X	221.07607	18.07877	238.15605	1.23308	0.0246439	0.22408945	2.6844487	21	—	—
452175 2015 RX_{85}	16.7	X	148.26172	55.78993	255.53424	12.13992	0.1706546	0.22407167	2.6845907	21	—	—
452176 2015 RH_{88}	18.3	X	27.04742	108.34748	325.65258	13.96587	0.2151851	0.37628907	1.9001519	21	—	—
452177 2015 RY_{88}	16.4	X	27.52020	212.53340	212.82818	15.99980	0.2221393	0.20212084	2.8756012	21	—	—
452178 2015 RZ_{88}	17.0	X	107.40037	78.34625	257.36980	6.43883	0.2292393	0.21203011	2.7852939	21	—	—
452179 2015 RH_{89}	16.9	X	104.85774	42.33335	308.78014	7.45807	0.1556903	0.21342228	2.7731682	21	—	—
452180 2015 RK_{89}	16.1	X	77.79893	57.97647	271.45925	10.10953	0.0967556	0.19036103	2.9928436	21	12 21.4	20.6
452181 2015 RQ_{89}	17.7	X	184.01890	188.21336	204.70924	0.97825	0.1795867	0.26628760	2.3927763	21	4 9.3	21.4
452182 2015 RT_{89}	17.1	X	150.37046	165.81959	247.40795	7.35788	0.2063760	0.25532076	2.4608131	21	4 3.9	21.1
452183 2015 RZ_{89}	18.1	X	99.95642	313.58352	357.41525	20.24808	0.0571750	0.36369020	1.9437854	21	—	—
452184 2015 RP_{90}	17.0	X	240.34007	64.51118	260.66690	5.85813	0.1450306	0.26663061	2.3907237	21	3 4.4	20.8
452185 2015 RA_{91}	15.9	X	351.73541	139.27609	255.53866	9.51098	0.1848473	0.17277289	3.1926573	21	11 19.5	19.5
452186 2015 RM_{91}	18.2	X	227.44483	74.09095	287.77283	5.11899	0.1898994	0.28349162	2.2949641	21	4 4.6	22.0
452187 2015 RL_{92}	15.7	X	334.48060	72.04368	326.05750	8.51056	0.0277714	0.18318242	3.0705312	21	10 22.6	20.1
452188 2015 RZ_{92}	16.6	X	58.04644	136.72709	202.62647	11.42691	0.1436051	0.19477586	2.9474468	21	12 17.8	21.0
452189 2015 RD_{95}	17.7	X	109.96865	339.30380	30.18217	1.83219	0.1599347	0.22912392	2.6449802	21	—	—
452190 2015 RE_{95}	17.3	X	143.84421	203.10950	143.55757	5.26759	0.1992508	0.23717927	2.5847481	21	1 9.4	21.1
452191 2015 RE_{97}	18.0	X	168.17980	15.84753	3.36456	1.12185	0.1843517	0.25876591	2.4389225	21	3 9.9	21.7
452192 2015 RG_{97}	18.1	X	323.61609	286.20600	5.14715	2.34285	0.1307252	0.30056585	2.2072064	21	5 2.4	20.2
452193 2015 RK_{98}	17.6	X	220.62216	48.60498	337.24489	3.83477	0.1678046	0.28550809	2.2841455	21	5 1.2	21.2
452194 2015 RQ_{100}	16.2	X	37.18046	304.84343	7.82671	10.01923	0.1787474	0.17481825	3.1677061	21	10 19.3	20.3
452195 2015 RT_{101}	17.5	X	191.66926	323.03993	66.96584	2.39719	0.1974271	0.26974752	2.3722716	21	4 13.4	21.4
452196 2015 RB_{102}	18.5	X	294.32029	182.71473	170.98402	4.05414	0.2236973	0.30600147	2.1809902	21	6 3.9	21.0
452197 2015 RJ_{107}	17.3	X	134.97134	192.24737	229.20502	1.57934	0.1728244	0.25477906	2.4642999	21	3 28.8	20.7
452198 2015 RL_{108}	16.0	X	323.83146	68.22725	5.14827	9.91205	0.2200160	0.17251700	3.1958137	21	11 11.4	19.5
452199 2015 RS_{108}	18.0	X	247.14570	299.80953	30.79946	2.89412	0.2460091	0.27522934	2.3406666	21	3 15.2	22.0
452200 2015 RW_{123}	17.9	X	175.18070	42.67460	340.09446	0.50758	0.1959077	0.26121931	2.4236275	21	3 20.8	21.7
452201 2015 RU_{152}	17.6	X	165.42856	170.03078	175.51413	6.23642	0.1123150	0.24700948	2.5157084	21	1 18.7	21.3
452202 2015 RV_{192}	15.3	X	214.23228	277.99232	165.18527	3.23580	0.1743854	0.12582061	3.9442842	21	7 10.5	21.5
452203 2015 RJ_{194}	16.9	X	51.46980	260.59282	20.63224	6.46545	0.3577261	0.17137173	3.2100362	21	10 26.4	21.4
452204 2015 RK_{194}	17.0	X	265.53328	207.25718	20.90980	7.72463	0.1551336	0.23406335	2.6076368	21	—	—
452205 2015 RV_{195}	18.3	X	192.17445	56.37121	31.19223	5.49422	0.1326302	0.29248168	2.2476927	21	6 26.9	21.6
452206 2015 RB_{197}	16.6	X	29.42936	58.15749	34.70732	8.94003	0.1118525	0.21796201	2.7345267	21	—	—
452207 2015 RA_{200}	17.2	X	274.36178	268.01618	16.65507	12.23704	0.1961670	0.27003587	2.3705825	21	2 18.7	21.0
452208 2015 RW_{200}	18.3	X	261.44040	151.58980	170.31421	1.31234	0.0754987	0.27457496	2.3443841	21	3 31.3	21.3
452209 2015 RZ_{200}	17.3	X	140.08869	259.69383	31.50466	2.18773	0.1397486	0.20594858	2.8398594	21	—	—
452210 2015 RA_{201}	17.4	X	131.08746	58.89932	12.04640	12.23353	0.1821505	0.25349287	2.4726286	21	4 6.9	20.8
452211 2015 RE_{206}	17.4	X	221.23340	291.81102	26.52622	14.76664	0.1810814	0.25679862	2.4513628	21	2 16.9	21.7
452212 2015 RN_{214}	18.0	X	307.18160	29.10520	317.46471	4.09155	0.0810097	0.31373422	2.1450041	21	7 10.4	20.0
452213 2015 RC_{216}	17.0	X	97.38487	146.93549	178.96420	10.43883	0.1222929	0.20045604	2.8915005	21	—	—
452214 2015 RZ_{216}	17.9	X	262.99118	191.58693	161.39345	4.81238	0.1310125	0.28995251	2.2607444	21	5 8.3	20.9
452215 2015 RN_{217}	17.0	X	52.97137	59.68836	8.03995	5.40457	0.0552911	0.22086317	2.7105277	21	—	—
452216 2015 RP_{217}	18.2	X	179.18350	49.17283	357.26730	3.96929	0.1796703	0.26830155	2.3807873	21	4 20.8	22.0
452217 2015 RS_{217}	17.6	X	30.56984	174.87551	3.91732	4.78859	0.1116213	0.26372079	2.4082772	21	3 23.7	19.9
452218 2015 RO_{218}	17.8	X	177.05195	19.85894	6.91983	2.19827	0.1773069	0.26047218	2.4282598	21	3 26.7	21.7
452219 2015 RN_{220}	17.0	X	90.27020	284.94910	29.22677	9.88882	0.0399557	0.18824432	3.0152370	21	12 8.9	21.5
452220 2015 RT_{221}	16.3	X	78.29156	319.27016	15.82161	7.66430	0.0222659	0.19102597	2.9858944	21	12 19.5	20.6
452221 2015 RH_{230}	18.0	X	95.97805	112.71241	12.37466	6.18655	0.0578990	0.26839995	2.3802053	21	4 15.3	21.0
452222 2015 RL_{234}	16.0	X	358.01889	248.72443	157.36036	10.42218	0.2045519	0.17504634	3.1649537	21	12 19.7	19.7
452223 2015 RN_{236}	16.6	X	136.80590	295.71047	98.95818	9.80402	0.2041463	0.23729954	2.5838747	21	3 7.3	20.6
452224 2015 RK_{237}	16.0	X	70.11942	178.48741	144.37769	10.49694	0.0854762	0.17332497	3.1858743	21	12 2.7	20.7
452225 2015 RZ_{237}	18.1	X	211.68460	295.26795	113.09919	8.75498	0.1263739	0.27761771	2.3272227	21	5 27.8	21.6
452226 2015 RA_{238}	17.1	X	47.72835	304.20385	92.87616	11.19163	0.0738188	0.19408202	2.9544673	21	—	—
452227 2015 RJ_{238}	15.5	X	18.04190	290.40581	104.35064	11.96765	0.1599689	0.17985626	3.1082720	21	—	—
452228 2015 RY_{241}	17.0	X	88.39814	355.79768	121.32679	8.86089	0.1634128	0.24520594	2.5280290	21	4 18.5	20.2
452229 2015 RP_{242}	15.7	X	323.50610	329.74104	132.38327	12.28978	0.1126486	0.17833348	3.1259411	21	12 27.8	19.6
452230 2015 RV_{242}	16.8	X	236.04177	176.94058	89.23297	12.82714	0.1470486	0.22534047	2.6745040	21	—	—
452231 2015 SD_{1}	17.1	X	230.56103	83.74527	222.46730	3.61423	0.1962143	0.25890653	2.4380394	21	2 1.5	21.2
452232 2015 SB_{5}	17.5	X	149.35095	166.98082	194.77282	12.09954	0.1929718	0.24069727	2.5595008	21	1 29.5	21.6
452233 2015 SH_{5}	15.9	X	321.56410	95.84079	340.83626	21.85218	0.1847133	0.17287658	3.1913807	21	11 6.2	20.0
452234 2015 SL_{7}	16.4	X	198.53758	15.50917	288.70105	18.78590	0.2186331	0.24192589	2.5508279	21	1 8.5	20.6
452235 2015 SX_{7}	16.0	X	104.95944	111.99106	207.38775	12.33429	0.2003099	0.20558562	2.8432010	21	—	—
452236 2015 SG_{10}	16.0	X	91.76729	321.01645	331.13405	8.68500	0.0705461	0.18245304	3.0787090	21	11 15.3	20.6
452237 2015 SO_{17}	16.8	X	73.47373	346.00174	83.16244	5.14992	0.1198134	0.22428136	2.6829171	21	1 13.4	19.9
452238 2015 SU_{18}	17.8	X	284.95968	214.58748	125.07253	6.24383	0.2039119	0.29685275	2.2255738	21	5 7.2	20.7
452239 2015 SZ_{19}	15.9	X	53.99845	228.27804	164.47802	9.41571	0.0193702	0.19899245	2.9056613	21	—	—
452240 2015 SD_{20}	15.0	X	4.39911	82.86395	276.93907	26.51608	0.2425971	0.17046835	3.2213671	21	10 26.7	19.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
452241 2015 TX_{1}	17.6	X	206.64688	214.24177	197.10683	6.82988	0.0840312	0.28744557	2.2738700	21	5 26.3	20.7
452242 2015 TQ_{2}	17.5	X	264.62503	269.89982	19.04585	2.23732	0.1896362	0.26568162	2.3964132	21	2 11.5	21.2
452243 2015 TG_{3}	16.0	X	283.53262	288.90942	190.14790	12.75685	0.1382655	0.17872372	3.1213891	21	11 16.7	20.1
452244 2015 TC_{18}	15.1	X	306.82104	320.57413	104.12935	19.48652	0.0837124	0.16870207	3.2438128	21	10 26.2	19.7
452245 2015 TX_{22}	17.6	X	286.01645	278.79059	35.36134	6.78749	0.1403807	0.28243490	2.3006849	21	4 11.7	20.5
452246 2015 TU_{76}	17.2	X	85.98745	184.90108	217.33363	4.43036	0.1604277	0.21467406	2.7623773	21	1 4.6	20.5
452247 2015 TH_{79}	16.7	X	117.68456	14.58194	40.01325	4.65798	0.1276416	0.23365959	2.6106400	21	2 27.5	20.2
452248 2015 TG_{84}	17.8	X	220.40648	153.08792	196.99202	1.88040	0.2325016	0.26308577	2.4121509	21	3 18.0	21.8
452249 2015 TH_{94}	17.6	X	282.69233	323.61184	29.44057	9.79307	0.1676006	0.29337218	2.2431420	21	5 24.4	20.5
452250 2015 TB_{101}	17.3	X	180.99306	214.06026	121.68892	5.84357	0.2545434	0.23840233	2.5759003	21	2 2.9	21.8
452251 2015 TC_{101}	17.3	X	97.51373	243.81985	168.08470	7.39265	0.1276300	0.22160578	2.7044689	21	1 27.1	20.7
452252 2015 TJ_{103}	17.1	X	168.89649	277.79311	144.39227	6.52996	0.1767368	0.25989467	2.4318557	21	5 5.4	21.1
452253 2015 TB_{117}	16.8	X	335.91202	304.75421	161.60958	13.96414	0.2580291	0.17416705	3.1755970	21	—	—
452254 2015 TU_{118}	16.6	X	65.89206	288.44031	147.32804	17.51032	0.1180503	0.21027691	2.8007542	21	1 12.7	20.1
452255 2015 TS_{119}	16.6	X	134.67361	238.69134	142.18913	12.17803	0.2029866	0.22394943	2.6855675	21	2 13.8	20.7
452256 2015 TK_{120}	15.9	X	297.69984	306.13367	199.26035	23.01225	0.1201018	0.17029666	3.2235319	21	—	—
452257 2015 TW_{121}	16.8	X	85.01326	243.64662	164.73371	11.58973	0.0449663	0.21918133	2.7243758	21	—	—
452258 2015 TC_{122}	15.8	X	282.36455	13.75024	102.80884	10.91123	0.0444182	0.17238239	3.1974772	21	11 23.6	20.3
452259 2015 TM_{127}	16.6	X	331.35971	306.98547	128.54037	10.47661	0.0708300	0.17535594	3.1612273	21	12 7.6	20.8
452260 2015 TY_{127}	15.4	X	224.89213	55.42434	135.39540	11.75750	0.0369529	0.18005404	3.1059953	21	12 14.1	20.0
452261 2015 TO_{128}	16.5	X	142.53645	220.03498	171.32312	13.04229	0.1706170	0.23907654	2.5710553	21	2 27.9	20.3
452262 2015 TL_{132}	15.7	X	297.10139	59.05712	94.26191	11.65536	0.0568084	0.19332635	2.9621611	21	—	—
452263 2015 TY_{135}	15.7	X	356.56786	314.81170	85.56585	16.07657	0.0433162	0.17014937	3.2253918	21	11 27.9	20.1
452264 2015 TH_{138}	15.9	X	67.45155	268.96276	96.89737	11.94884	0.0355777	0.18785532	3.0193981	21	—	—
452265 2015 TG_{139}	16.5	X	46.52871	238.41711	123.06180	11.35667	0.1595601	0.17987912	3.1080087	21	12 30.4	20.9
452266 2015 TX_{142}	17.8	X	351.83024	82.03960	194.64756	18.93446	0.1566800	0.28711959	2.2755908	21	6 4.7	20.1
452267 2015 TZ_{142}	17.3	X	166.15652	255.81591	110.86771	8.14881	0.2386168	0.24217631	2.5490691	21	2 28.6	21.6
452268 2015 TU_{145}	16.0	X	64.01067	325.95336	1.45162	11.80696	0.0606673	0.18002945	3.1062782	21	11 23.5	20.6
452269 2015 TX_{145}	16.5	X	183.81603	300.14664	343.09175	5.46701	0.0912964	0.21847552	2.7302402	21	—	—
452270 2015 TD_{146}	16.4	X	56.85866	162.55248	177.98813	2.06417	0.0634019	0.18422496	3.0589361	21	12 5.4	20.6
452271 2015 TA_{148}	16.9	X	81.81879	153.89010	256.91114	4.37309	0.0211421	0.22560660	2.6724003	21	—	—
452272 2015 TR_{150}	18.1	X	171.37615	52.14467	6.15868	4.73945	0.1702444	0.27029125	2.3690891	21	4 28.1	21.7
452273 2015 TG_{156}	18.3	X	216.42072	219.56981	174.79546	2.70698	0.1593509	0.28232448	2.3012848	21	5 11.2	21.8
452274 2015 TE_{158}	17.3	X	347.46831	292.97000	221.90572	1.81035	0.1153644	0.22936388	2.6431352	21	—	—
452275 2015 TP_{161}	16.7	X	106.27219	191.84648	180.92619	12.00689	0.0728457	0.22689236	2.6622947	21	—	—
452276 2015 TB_{169}	18.2	X	203.99190	355.26885	29.84388	2.06268	0.1938586	0.26736021	2.3863723	21	4 17.3	21.9
452277 2015 TM_{169}	16.2	X	351.66487	31.32433	77.70018	12.20103	0.0529323	0.19857265	2.9097550	21	—	—
452278 2015 TN_{169}	17.4	X	325.46361	131.13013	141.02302	6.91060	0.1351980	0.27412814	2.3469309	21	4 12.8	20.0
452279 2015 TP_{174}	17.8	X	253.14315	220.85233	96.22555	7.30924	0.1035836	0.26062586	2.4273052	21	3 17.8	21.4
452280 2015 TK_{179}	17.7	X	219.60751	339.39753	11.79247	2.43623	0.2148011	0.26807714	2.3821157	21	3 19.2	21.5
452281 2015 TU_{179}	17.5	X	323.11800	304.78253	45.26037	8.12889	0.2066405	0.31232092	2.1514702	21	8 2.4	19.0
452282 2015 TU_{199}	17.9	X	344.36285	316.91982	337.12490	4.06110	0.1828944	0.30536140	2.1840368	21	6 12.1	19.3
452283 2015 TX_{199}	17.9	X	271.94105	84.29697	259.07545	5.19414	0.1785922	0.28973273	2.2618875	21	4 26.5	20.9
452284 2015 TA_{202}	15.5	X	98.19899	313.76446	357.43656	10.39079	0.1148604	0.18918115	3.0052744	21	12 22.9	20.2
452285 2015 TS_{206}	17.7	X	244.31884	282.37388	33.92839	1.73501	0.1960594	0.26712839	2.3877527	21	2 26.3	21.4
452286 2015 TE_{208}	17.9	X	221.88019	25.01206	343.65298	5.02167	0.1450580	0.27299776	2.3534049	21	4 11.5	21.5
452287 2015 TC_{209}	15.7	X	320.21885	277.37960	176.39235	16.24045	0.2483677	0.17374524	3.1807346	21	12 5.1	19.2
452288 2015 TD_{209}	16.4	X	74.23888	320.83887	121.89458	6.47660	0.1161040	0.23022712	2.6365240	21	1 30.7	19.3
452289 2015 TW_{209}	17.8	X	214.40598	57.07372	317.35902	4.01061	0.1627551	0.26887630	2.3773933	21	4 11.4	21.6
452290 2015 TF_{210}	16.1	X	39.69022	304.63570	48.57582	12.68758	0.0815024	0.17695531	3.1421506	21	11 28.9	20.4
452291 2015 TP_{223}	18.6	X	213.75636	19.02572	352.63838	2.01067	0.2391681	0.26853289	2.3794198	21	4 7.5	22.5
452292 2015 TS_{223}	17.5	X	191.26947	6.97096	25.63169	6.03957	0.2252589	0.26305923	2.4123132	21	4 16.3	21.3
452293 2015 TF_{225}	16.7	X	291.63927	183.17515	57.48714	16.80189	0.2213346	0.24382308	2.5375786	21	1 9.2	20.9
452294 2015 TZ_{234}	18.1	X	219.30761	251.91940	161.57851	6.19905	0.1160666	0.28596812	2.2816953	21	6 11.1	21.4
452295 2015 TO_{239}	17.0	X	151.46964	60.66324	305.56008	8.83622	0.2134891	0.24172238	2.5522593	21	2 9.6	21.0
452296 2015 TS_{239}	16.2	X	78.54751	151.86350	219.24036	24.94743	0.1507738	0.20933717	2.8091298	21	—	—
452297 2015 TU_{304}	17.4	X	280.12347	219.40292	99.77654	8.12068	0.1802614	0.28156383	2.3054275	21	4 9.7	20.7
452298 2015 TW_{323}	17.3	X	146.87890	265.91549	84.10319	2.92470	0.1794279	0.23053708	2.6341603	21	1 16.3	21.1
452299 1993 TX_{47}	16.1	X	66.28990	146.69720	197.52861	8.81031	0.3049469	0.18176865	3.0864321	21	—	—
452300 1994 TC_{6}	18.3	X	281.65495	149.98826	185.33529	2.82790	0.2364244	0.28473182	2.2882952	21	4 21.8	21.5
452301 1994 UU_{9}	17.4	X	221.18222	323.17463	356.37948	3.60336	0.2643534	0.23932298	2.5692899	21	2 13.5	22.0
452302 1995 YR_{1}	20.4	X	161.75285	109.43531	107.04631	3.57015	0.8270689	0.44566348	1.6974540	21	11 6.4	24.6
452303 1996 RL_{1}	16.9	X	114.37013	205.84759	158.40907	4.93568	0.2087840	0.21163390	2.7887691	21	1 4.4	20.7
452304 1996 VC_{33}	18.2	X	234.02948	147.64400	204.26378	0.89770	0.2351614	0.26199914	2.4188159	21	3 31.2	22.2
452305 1997 BN_{7}	16.3	X	118.96823	73.83787	307.30369	13.65230	0.1598555	0.20404390	2.8575048	21	1 25.8	20.4
452306 1997 GF_{29}	16.8	X	217.42824	255.55589	12.01609	28.68660	0.3320481	0.23287652	2.6164890	21	—	—
452307 Manawydan	18.2	X	33.65633	270.13583	241.24659	44.26240	0.3180340	0.38631418	1.8671346	21	—	—
452308 1998 SE_{34}	16.2	X	42.99735	356.01460	356.33441	24.37063	0.2608683	0.17719425	3.1393252	21	—	—
452309 1998 SA_{150}	17.2	X	180.82555	21.57158	331.94520	1.45407	0.2389061	0.23755148	2.5820475	21	2 22.6	21.7
452310 1998 UA_{14}	16.9	X	203.73871	269.72643	44.35763	9.33553	0.1472898	0.23365660	2.6106622	21	1 26.1	21.2
452311 1998 VS_{41}	16.6	X	357.77112	61.01324	57.33804	15.78250	0.2500627	0.17925504	3.1152181	21	—	—
452312 1998 VC_{43}	17.7	X	168.29312	157.61614	208.44696	1.34988	0.1881710	0.23483551	2.6019176	21	2 24.2	22.0
452313 1998 XR_{16}	18.5	X	187.02775	68.32437	91.66738	20.49647	0.5800434	0.28710082	2.2756900	21	9 21.1	23.9
452314 1999 LN_{28}	19.2	X	0.65495	186.66401	115.60461	9.19981	0.4679740	0.31464185	2.1408770	21	10 25.9	20.1
452315 1999 VQ_{116}	15.9	X	300.18950	172.88476	195.76319	3.94782	0.2903088	0.12545577	3.9519275	21	6 25.9	21.1
452316 1999 XV_{110}	16.2	X	56.41366	163.31362	246.81999	12.86629	0.3685892	0.19017730	2.9947708	21	—	—
452317 1999 XK_{219}	18.4	X	50.95735	322.37766	98.99587	25.13312	0.1363939	0.36857626	1.9265686	21	—	—
452318 1999 XE_{260}	15.8	X	250.05436	231.18463	292.89672	17.37488	0.1143182	0.17546393	3.1599301	21	11 28.1	20.5
452319 2000 AC_{44}	16.6	X	31.64374	84.29505	105.40169	6.19815	0.2290277	0.24015292	2.5633671	21	4 26.3	18.6
452320 2000 ER_{15}	17.6	X	82.86032	299.75562	172.98931	6.86518	0.0952257	0.23610600	2.5925752	21	3 21.6	20.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
452321 2000 FP_{73}	17.6	X	51.95136	331.11985	184.69199	4.72874	0.1385497	0.23597968	2.5935003	21	4 6.3	20.1
452322 2000 GG_{121}	18.3	X	183.48393	276.84608	197.17888	6.05218	0.0996464	0.29267343	2.2467108	21	7 22.9	21.6
452323 2000 KQ_{39}	17.4	X	0.52605	90.79041	107.53190	4.48892	0.2340014	0.23037850	2.6353689	21	2 19.5	19.7
452324 2000 SZ_{99}	16.5	X	109.35427	181.36102	200.77734	9.32918	0.3336419	0.20470591	2.8513408	21	2 5.3	20.8
452325 2000 SC_{129}	17.6	X	214.03514	153.35801	242.54248	0.42586	0.1906837	0.26867189	2.3785990	21	5 9.7	21.3
452326 2000 SY_{129}	16.1	X	278.67550	29.18616	288.12867	12.59498	0.2576390	0.22366294	2.6878603	21	3 21.9	20.6
452327 2000 SX_{162}	17.9	X	203.33004	74.89090	8.69997	6.33006	0.4502135	0.26953743	2.3735041	21	6 23.9	22.9
452328 2000 SR_{163}	16.3	X	100.06459	28.94024	358.05866	27.95005	0.1796771	0.20530903	2.8457540	21	1 23.3	20.6
452329 2000 SL_{166}	16.7	X	119.47590	88.15634	255.89627	5.87060	0.3316734	0.20330215	2.8644510	21	1 3.6	21.0
452330 2000 SJ_{314}	16.6	X	329.18413	22.39048	273.52003	10.77439	0.1480563	0.27456653	2.3444321	21	5 18.8	19.0
452331 2000 WC_{159}	17.7	X	237.61003	343.30693	49.83352	2.22543	0.1867681	0.26856637	2.3792220	21	5 28.4	21.2
452332 2001 BG_{29}	17.4	X	155.34670	208.71606	293.71709	6.75986	0.2307348	0.26325111	2.4111408	21	8 3.2	21.6
452333 2001 JO	15.4	X	236.67919	151.63047	57.17190	34.51612	0.3652862	0.17747156	3.1360541	21	12 3.2	20.7
452334 2001 LB	21.0	X	257.36550	118.13051	80.90330	20.79410	0.1892524	0.71718801	1.2360822	21	—	—
452335 2001 OF_{113}	16.6	X	139.01857	265.32531	117.97684	15.83917	0.3344939	0.22052814	2.7132722	21	3 10.1	21.4
452336 2001 QU_{218}	17.1	X	190.89161	341.43986	334.13091	4.61391	0.2907401	0.22298344	2.6933181	21	1 21.4	22.0
452337 2001 RB_{22}	18.4	X	271.32622	182.52446	173.35926	4.03602	0.2916504	0.28709607	2.2757150	21	5 2.6	21.9
452338 2001 RY_{60}	17.3	X	169.11823	184.10634	143.19693	8.47768	0.2159275	0.21950943	2.7216604	21	1 14.0	21.9
452339 2001 RY_{152}	16.0	X	164.80652	277.95407	66.26138	15.41810	0.3261570	0.22102510	2.7092036	21	2 11.5	21.1
452340 2001 ST_{127}	17.6	X	331.56124	353.22914	352.68064	7.11882	0.1983733	0.29380703	2.2409281	21	8 15.9	18.9
452341 2001 SE_{133}	17.9	X	302.86363	357.73853	344.18811	6.99112	0.1397226	0.28892416	2.2661056	21	6 14.4	20.5
452342 2001 SN_{158}	17.1	X	135.87314	165.40192	200.02779	8.40678	0.2050984	0.21781687	2.7357414	21	1 26.1	21.3
452343 2001 SD_{194}	17.0	X	154.15685	164.71877	177.19081	7.65225	0.1856593	0.21917519	2.7244266	21	1 14.7	21.4
452344 2001 SP_{202}	17.9	X	231.19988	177.80466	171.51525	5.58247	0.1225111	0.28015678	2.3131402	21	3 29.6	21.1
452345 2001 SU_{202}	18.6	X	260.67495	255.99106	122.68686	1.09283	0.2593328	0.28688967	2.2768064	21	5 24.9	22.1
452346 2001 SM_{285}	17.2	X	73.21812	212.73464	203.77141	8.25839	0.1985169	0.21299893	2.7768415	21	1 7.1	20.3
452347 2001 SW_{339}	16.4	X	171.90270	119.16787	215.64636	15.74285	0.2101720	0.22020433	2.7159315	21	1 20.9	21.2
452348 2001 TG_{45}	17.2	X	148.74499	116.81631	239.07001	3.03953	0.2250283	0.21654412	2.7464506	21	1 30.5	21.6
452349 2001 TA_{109}	17.1	X	281.31721	359.63334	16.16358	23.91419	0.1555040	0.28786725	2.2716489	21	6 30.9	20.5
452350 2001 TH_{165}	18.0	X	225.32229	2.28216	66.49289	10.54787	0.2410778	0.28438874	2.2901352	21	6 28.5	21.7
452351 2001 TT_{188}	16.4	X	74.92673	199.86112	224.00943	24.45243	0.1405539	0.21291707	2.7775532	21	1 7.4	20.2
452352 2001 TV_{212}	17.0	X	199.44346	149.30182	225.13820	10.82030	0.1872109	0.22750235	2.6575338	21	3 31.7	21.5
452353 2001 UR_{15}	17.9	X	255.74938	134.86800	252.10039	5.19930	0.2251680	0.28541705	2.2846312	21	6 3.5	21.3
452354 2001 UR_{54}	17.2	X	140.57574	59.62279	289.30405	11.11504	0.3194728	0.21709207	2.7418272	21	1 23.8	21.8
452355 2001 UA_{106}	17.0	X	106.31212	188.37412	203.09926	8.35717	0.2181083	0.21448989	2.7639584	21	1 26.8	20.8
452356 2001 UA_{147}	18.8	X	271.12147	316.54700	40.93038	3.56575	0.2230978	0.28495075	2.2871229	21	5 10.9	22.0
452357 2001 UX_{189}	18.2	X	273.49580	137.42607	261.01590	2.05138	0.1830523	0.29013910	2.2597751	21	7 16.9	20.7
452358 2001 UC_{191}	17.9	X	258.35188	52.94012	7.21876	5.44638	0.1176488	0.29043280	2.2582513	21	8 9.7	20.6
452359 2001 UH_{216}	19.1	X	209.85072	225.10137	183.80812	6.21337	0.1831739	0.28154154	2.3055492	21	5 23.7	22.8
452360 2001 VX_{51}	17.5	X	250.73444	32.31167	13.08967	9.45423	0.1665608	0.28603763	2.2813256	21	7 1.0	20.8
452361 2001 VD_{63}	17.9	X	288.13636	48.08358	321.91963	3.23157	0.2138398	0.28716329	2.2753599	21	6 20.9	20.6
452362 2001 VH_{125}	18.5	X	32.21047	328.31601	98.10320	7.63063	0.2217732	0.35689220	1.9683909	21	—	—
452363 2001 WO_{18}	16.8	X	121.02485	185.69871	230.30653	9.38857	0.2318396	0.21872988	2.7281232	21	3 15.1	21.1
452364 2001 WM_{46}	18.1	X	255.56021	356.56334	26.68370	1.52765	0.2417596	0.28395162	2.2924849	21	5 27.4	21.4
452365 2001 WM_{102}	17.8	X	253.54433	194.55998	243.76099	7.39110	0.1661169	0.28765602	2.2727608	21	8 15.9	20.8
452366 2001 XL_{4}	17.4	X	182.73925	10.76167	78.16703	25.80919	0.2196590	0.27881887	2.3205340	21	6 17.8	21.2
452367 2001 XV_{102}	17.0	X	100.48638	284.99212	245.19731	21.71179	0.2484779	0.27603722	2.3360974	21	7 16.2	20.8
452368 2001 XU_{141}	17.7	X	24.80976	144.00591	252.31598	18.67518	0.0909497	0.35167549	1.9878090	21	—	—
452369 2001 XF_{167}	16.2	X	60.71958	263.90835	265.94199	24.31021	0.3317262	0.21673900	2.7448040	21	6 15.6	19.2
452370 2001 XD_{223}	18.1	X	244.83715	142.57902	272.08684	4.85351	0.2152361	0.28478482	2.2880113	21	6 30.8	21.4
452371 2001 XR_{251}	17.8	X	228.71827	189.28408	246.37386	3.20322	0.2104877	0.28264101	2.2995663	21	7 12.8	21.4
452372 2001 YW_{1}	17.3	X	186.76889	35.74993	267.45375	18.38973	0.0381677	0.36033688	1.9558261	21	—	—
452373 2001 YX_{6}	17.4	X	93.71228	80.47743	309.17645	6.91000	0.3055651	0.21089889	2.7952448	21	1 24.6	20.8
452374 2001 YY_{61}	17.8	X	125.74661	29.68936	84.47934	5.03475	0.2190949	0.27189589	2.3597588	21	6 1.1	21.3
452375 2001 YV_{158}	17.4	X	119.12768	15.48433	301.69463	16.49616	0.0657019	0.35028380	1.9930706	21	—	—
452376 2002 AC_{5}	20.0	X	143.79003	331.68460	82.39829	16.54929	0.4932327	0.42246419	1.7590416	21	4 22.3	23.2
452377 2002 AC_{39}	17.4	X	124.46631	349.19798	127.74111	12.45288	0.1834295	0.27059834	2.3672964	21	6 2.2	21.0
452378 2002 AD_{140}	17.4	X	195.44394	45.11482	98.11542	25.46948	0.2359314	0.28460685	2.2889650	21	9 19.2	21.7
452379 2002 CW_{39}	16.8	X	155.82961	228.29133	301.21116	23.85614	0.1956943	0.27804588	2.3248329	21	8 27.7	21.0
452380 2002 CF_{113}	16.9	X	22.18457	62.02088	69.61020	7.50156	0.2634190	0.20607171	2.8387281	21	1 6.3	19.2
452381 2002 CR_{159}	17.0	X	171.59040	142.53085	350.33521	23.91760	0.2030655	0.27484235	2.3428633	21	8 14.8	21.1
452382 2002 CT_{176}	17.5	X	114.17563	53.31699	123.88939	6.29740	0.1717070	0.27452523	2.3446672	21	8 8.2	20.8
452383 2002 CQ_{295}	17.5	X	24.52782	54.00592	148.61182	11.48665	0.1827833	0.26275837	2.4141542	21	4 24.5	19.6
452384 2002 EV_{8}	18.5	X	348.04278	329.21758	346.52333	15.05770	0.1592183	0.47789364	1.6202495	21	9 1.9	17.7
452385 2002 LX_{3}	16.8	X	334.25840	174.14844	80.33836	9.56775	0.1761266	0.25578316	2.4578465	21	3 31.6	19.6
452386 2002 LM_{38}	15.8	X	169.09370	122.25937	114.71049	16.51981	0.1616463	0.17913452	3.1166153	21	12 4.0	21.1
452387 2002 LW_{62}	17.2	X	202.68628	288.50115	44.02206	6.15376	0.3034067	0.23990143	2.5651582	21	2 17.8	22.0
452388 2002 NT_{3}	17.4	X	209.78747	66.23540	242.75751	10.03820	0.3161688	0.23848293	2.5753199	21	1 21.6	22.4
452389 2002 NW_{16}	18.1	X	135.41080	317.47496	301.54590	14.16454	0.0303917	0.84414411	1.1088130	21	—	—
452390 2002 ND_{56}	16.7	X	187.56602	208.28049	126.21153	13.28513	0.2991132	0.23696875	2.5862788	21	2 8.4	21.3
452391 2002 NB_{67}	18.2	X	348.88493	338.57038	2.80075	0.48602	0.2466590	0.31410756	2.1433041	21	10 3.9	18.5
452392 2002 PS_{39}	15.8	X	153.60273	311.12947	308.38571	14.63666	0.2233011	0.17307299	3.1889657	21	12 12.7	21.4
452393 2002 PB_{88}	18.2	X	6.06589	162.02212	165.72377	2.98710	0.2146781	0.31390837	2.1442107	21	10 21.6	19.6
452394 2002 PO_{99}	17.8	X	210.55865	234.22378	75.00961	5.47918	0.2974582	0.23764640	2.5813599	21	1 25.9	22.6
452395 2002 PC_{107}	17.1	X	216.12864	62.41599	268.68701	6.36203	0.2034268	0.24028190	2.5624497	21	2 19.9	21.5
452396 2002 PM_{112}	16.6	X	156.35874	63.32455	323.64278	29.50816	0.3246387	0.23593949	2.5937949	21	3 7.9	21.5
452397 2002 PD_{130}	20.4	X	91.13913	105.20205	269.13162	8.78287	0.3435598	0.38179619	1.8818355	21	—	—
452398 2002 PS_{157}	17.3	X	206.66861	226.63340	113.28149	1.77550	0.1882197	0.24060864	2.5601293	21	2 26.0	21.4
452399 2002 PW_{183}	16.7	X	176.33365	127.56184	256.95859	3.75003	0.2735886	0.24101337	2.5572624	21	3 27.2	21.2
452400 2002 QY_{121}	18.4	X	52.02502	312.14348	156.38633	22.60357	0.0508205	0.39230843	1.8480666	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
452401 2002 QO_{144}	17.7	X	144.02882	34.19442	2.65104	4.51666	0.1692525	0.23669725	2.5882560	21	3 10.0	21.5
452402 2002 RD_{95}	17.0	X	171.65077	348.31562	6.77691	3.93929	0.2540436	0.23373807	2.6100555	21	2 19.7	21.4
452403 2002 RY_{151}	16.8	X	164.75231	139.39983	241.44603	6.43318	0.1279895	0.23704667	2.5857119	21	3 3.7	20.9
452404 2002 RH_{182}	16.5	X	215.53687	86.04466	242.98289	11.34071	0.2264555	0.23873895	2.5734784	21	2 14.9	21.3
452405 2002 RU_{208}	17.5	X	142.72478	346.92274	48.75418	0.91877	0.3246443	0.23331607	2.6132018	21	3 21.3	21.9
452406 2002 RQ_{247}	17.3	X	240.90411	147.77353	148.53914	6.09789	0.2414062	0.24073665	2.5592217	21	1 30.8	21.7
452407 2002 SW	16.4	X	165.51049	76.98005	314.20509	26.96591	0.4099616	0.23384887	2.6092310	21	3 19.8	21.9
452408 2002 SU_{66}	17.0	X	165.56854	290.49670	88.34431	5.19230	0.1772713	0.23773971	2.5806844	21	3 11.3	21.1
452409 2002 SH_{71}	17.7	X	200.85400	165.77219	172.26412	1.90345	0.1482122	0.23613806	2.5923406	21	2 17.8	21.7
452410 2002 SQ_{73}	17.5	X	175.54307	30.16145	334.96183	1.63664	0.2275996	0.23715498	2.5849246	21	3 3.6	21.9
452411 2002 TW_{6}	17.0	X	127.97135	214.51283	187.87507	13.13848	0.1902590	0.23170894	2.6252713	21	2 28.3	20.9
452412 2002 TG_{91}	16.7	X	174.87177	324.18645	4.57723	13.21822	0.2699688	0.23085252	2.6317601	21	1 26.9	21.4
452413 2002 TX_{91}	17.2	X	209.11928	130.87998	193.17272	1.02164	0.2481311	0.23648175	2.5898283	21	2 9.3	21.7
452414 2002 TO_{126}	17.3	X	160.40077	251.86929	132.74859	5.66240	0.3174675	0.23537366	2.5979501	21	3 22.1	21.9
452415 2002 TL_{181}	18.2	X	339.49666	123.89668	214.78892	2.82575	0.2369999	0.30965420	2.1638047	21	8 20.9	18.9
452416 2002 UA_{2}	16.8	X	162.98294	305.20136	72.28910	7.25813	0.3252204	0.23466047	2.6032113	21	3 17.8	21.6
452417 2002 UF_{29}	17.2	X	136.25987	106.65856	274.42272	10.12411	0.3155828	0.22929032	2.6437004	21	2 21.7	21.7
452418 2002 VF_{24}	17.4	X	139.11203	155.28586	226.43354	12.02098	0.2983244	0.22937905	2.6430186	21	2 23.1	22.0
452419 2002 VQ_{85}	15.4	X	190.07314	102.65543	267.44705	27.19925	0.3839718	0.23274457	2.6174778	21	3 10.4	21.1
452420 2002 VU_{91}	16.6	X	154.93871	32.47886	327.81666	6.68505	0.2032503	0.22922302	2.6442179	21	2 8.1	20.7
452421 2002 VX_{99}	18.4	X	103.38397	259.92798	234.30754	24.48677	0.5114681	0.23065238	2.6332823	21	6 29.9	23.6
452422 2002 VB_{117}	16.5	X	122.42620	144.55295	267.45179	11.88617	0.1654955	0.22960432	2.6412895	21	2 27.1	20.5
452423 2002 VD_{147}	17.3	X	165.74578	306.96379	49.29592	3.48542	0.1983797	0.23048471	2.6345593	21	2 13.4	21.6
452424 2002 WS_{4}	17.0	X	111.17556	161.56468	250.82438	12.71841	0.2425677	0.22863163	2.6487756	21	2 25.1	20.9
452425 2002 XW_{70}	16.6	X	62.62190	216.13102	271.45351	12.48667	0.1997370	0.22590824	2.6700210	21	3 18.0	19.7
452426 2002 YR_{12}	17.5	X	345.38710	261.65938	271.44292	22.43604	0.0370959	0.38210881	1.8808089	21	—	—
452427 2003 AA_{52}	17.3	X	82.87488	56.97003	91.95330	6.13294	0.2849186	0.22878343	2.6476038	21	6 9.8	20.8
452428 2003 BW_{22}	16.9	X	97.18687	342.05101	147.90206	31.64314	0.1483400	0.22903883	2.6456352	21	5 21.9	21.3
452429 2003 BE_{29}	16.7	X	355.94937	37.74249	130.92778	12.52115	0.1960022	0.21766927	2.7369780	21	1 7.8	19.7
452430 2003 BS_{71}	17.4	X	2.01195	206.59065	287.91248	18.96553	0.0781894	0.37486244	1.9049698	21	—	—
452431 2003 CL_{8}	17.4	X	121.95635	207.37844	226.16100	6.30042	0.3456859	0.22842470	2.6503751	21	4 20.6	21.8
452432 2003 EA_{30}	16.6	X	352.97077	321.85897	155.27614	10.07008	0.1807787	0.21014160	2.8019563	21	—	—
452433 2003 FS_{22}	17.7	X	13.54319	242.72936	357.32019	5.63629	0.1248845	0.28014057	2.3132295	21	5 21.3	19.8
452434 2003 FC_{45}	17.7	X	237.98208	101.71634	349.31098	6.89027	0.2137082	0.29567442	2.2314828	21	8 14.6	20.8
452435 2003 GB	16.2	X	133.43603	36.92360	188.35625	30.76553	0.4569575	0.18497778	3.0506309	21	10 29.6	22.4
452436 2003 HJ_{13}	17.7	X	7.43124	150.96128	92.01896	3.29320	0.1911825	0.27496413	2.3421715	21	5 14.2	19.3
452437 2003 KW_{33}	16.1	X	87.06245	192.20963	91.80054	17.82032	0.1261588	0.18168637	3.0873639	21	11 15.0	20.9
452438 2003 QG_{2}	15.3	X	55.40897	96.56585	276.31298	23.69025	0.3154747	0.17517792	3.1633686	21	—	—
452439 2003 QC_{68}	17.7	X	251.45222	50.90801	307.63675	1.34743	0.2050317	0.26205294	2.4184848	21	4 25.2	21.6
452440 2003 QM_{74}	17.2	X	234.22006	92.25765	279.10139	4.13285	0.2644455	0.26031429	2.4292416	21	4 21.6	21.4
452441 2003 QU_{112}	16.0	X	76.93086	76.44813	232.39963	21.33232	0.3103069	0.17411052	3.1762844	21	12 14.8	21.4
452442 2003 SD_{29}	15.6	X	0.90899	187.42062	246.23525	9.47069	0.1103371	0.17571079	3.1569698	21	—	—
452443 2003 SN_{72}	18.8	X	170.45665	182.78921	217.93681	2.14267	0.2279035	0.25177753	2.4838464	21	4 10.0	22.9
452444 2003 SQ_{111}	16.1	X	4.55498	52.20024	21.33621	26.86105	0.3641845	0.17245193	3.1966175	21	—	—
452445 2003 ST_{113}	16.4	X	46.41949	87.92826	262.43821	8.25369	0.2055731	0.17378078	3.1803010	21	12 21.9	20.9
452446 2003 SC_{118}	16.6	X	237.37359	122.67781	244.68351	5.57779	0.1329209	0.25833082	2.4416603	21	4 28.2	20.2
452447 2003 SE_{203}	17.9	X	207.11034	105.83821	268.06110	0.75804	0.1965435	0.25540715	2.4602582	21	4 6.4	21.8
452448 2003 SG_{205}	17.5	X	246.84307	303.76734	6.85991	12.26533	0.2200068	0.25432077	2.4672595	21	2 25.1	21.7
452449 2003 SM_{216}	16.4	X	26.77079	95.80828	292.95529	11.85746	0.2883954	0.17159287	3.2072777	21	—	—
452450 2003 SK_{292}	17.5	X	267.70366	51.95137	267.55993	6.22253	0.1793023	0.25766202	2.4458835	21	3 22.4	21.3
452451 2003 SX_{312}	17.2	X	181.33761	321.50565	89.94650	4.06313	0.1538479	0.25620178	2.4551684	21	5 1.7	21.0
452452 2003 SU_{331}	16.4	X	327.40679	77.50743	16.75826	9.53525	0.1968350	0.17265428	3.1941194	21	12 20.6	20.0
452453 2003 SG_{338}	18.4	X	213.35619	98.67837	254.42960	1.33249	0.2117588	0.25416935	2.4682393	21	3 16.8	22.7
452454 2003 SE_{341}	16.6	X	112.20009	352.46012	322.66250	3.78062	0.1458761	0.17866478	3.1220756	21	—	—
452455 2003 SR_{352}	16.2	X	18.80987	12.66501	5.69592	14.59721	0.1637907	0.17036257	3.2227003	21	12 9.9	20.5
452456 2003 SQ_{373}	16.7	X	83.28071	152.65658	183.27444	11.95236	0.1634409	0.17612675	3.1519973	21	—	—
452457 2003 SD_{432}	16.7	X	69.51707	154.37918	198.43804	8.52803	0.0775344	0.17507574	3.1645994	21	—	—
452458 2003 TH_{1}	16.9	X	196.01600	128.83056	263.98324	12.15927	0.2192818	0.25391038	2.4699173	21	4 17.0	21.3
452459 2003 UN_{2}	16.0	X	203.75874	131.59747	90.75748	17.91442	0.1892321	0.17731001	3.1379586	21	12 12.7	21.0
452460 2003 UY_{119}	17.6	X	231.31004	111.95635	260.33634	1.73755	0.1946739	0.25713285	2.4492381	21	4 25.2	21.7
452461 2003 UM_{165}	16.1	X	92.85779	165.04921	218.25300	9.50317	0.0494159	0.17969677	3.1101108	21	—	—
452462 2003 UC_{240}	16.3	X	30.08716	112.30146	277.02683	7.95933	0.2063864	0.17056586	3.2201392	21	—	—
452463 2003 UY_{287}	17.1	X	78.83001	200.43778	214.37181	14.00397	0.0915650	0.23863708	2.5742107	21	—	—
452464 2003 UH_{379}	18.5	X	245.79924	269.35023	64.56566	2.00092	0.2061362	0.25638792	2.4539799	21	3 22.0	22.4
452465 2003 VX_{8}	16.0	X	344.16658	270.24532	220.19130	18.71246	0.2894419	0.17416245	3.1756529	21	—	—
452466 2003 WM_{16}	15.9	X	351.12610	200.55803	217.59432	9.44266	0.1494617	0.16845204	3.2470217	21	12 15.5	19.8
452467 2003 WN_{31}	17.2	X	96.46020	25.79636	39.52083	11.98242	0.1394553	0.24097772	2.5575146	21	2 17.3	20.6
452468 2003 WM_{158}	15.7	X	105.92212	315.17498	36.56414	11.89370	0.0805365	0.17798668	3.1300003	21	—	—
452469 2003 YP_{8}	16.5	X	59.07093	256.21634	252.85546	26.49211	0.1859017	0.24224704	2.5485729	21	4 6.2	19.7
452470 2003 YG_{41}	16.7	X	30.79710	103.67718	103.54726	6.34105	0.1721735	0.24211632	2.5494901	21	5 16.2	19.0
452471 2003 YZ_{180}	17.2	X	169.99742	285.19177	115.55502	8.30177	0.2886513	0.24516569	2.5283058	21	4 16.9	21.8
452472 2004 AY_{14}	17.8	X	183.87668	313.31960	82.05001	3.71459	0.1751915	0.24508919	2.5288318	21	4 15.3	22.0
452473 2004 BT_{10}	16.8	X	143.26679	271.37611	177.60504	11.92356	0.2474216	0.24525992	2.5276581	21	5 21.2	21.2
452474 2004 BG_{11}	18.6	X	96.03401	83.84848	108.20717	34.11887	0.4871967	0.41635493	1.7762070	21	9 24.6	22.7
452475 2004 BW_{15}	16.3	X	31.70494	341.17158	130.44988	17.91267	0.1203306	0.22934491	2.6432809	21	—	—
452476 2004 BZ_{81}	17.7	X	44.25622	205.78198	307.30913	1.38297	0.0640152	0.23785015	2.5798855	21	3 12.7	20.7
452477 2004 BM_{84}	16.4	X	88.24467	282.22643	231.91101	11.40543	0.2014310	0.24216749	2.5491310	21	6 10.4	19.8
452478 2004 BL_{115}	16.6	X	12.69081	201.99008	316.13236	12.80837	0.1036284	0.23105689	2.6302080	21	1 29.9	19.5
452479 2004 BR_{115}	17.3	X	77.76534	157.37169	341.46942	5.18293	0.1559666	0.23903433	2.5713579	21	4 25.4	20.5
452480 2004 CG_{40}	16.4	X	311.58623	128.50192	32.82750	14.52247	0.1630869	0.22081282	2.7109397	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
452481 2004 CG_{58}	16.9	X	116.95868	54.93854	107.12425	16.90486	0.1178465	0.24651176	2.5190935	21	7 14.9	20.5
452482 2004 CM_{103}	17.4	X	99.33987	269.80483	197.70775	4.48138	0.2250335	0.23785958	2.5798173	21	4 26.8	20.7
452483 2004 DR_{34}	16.5	X	72.91631	317.83090	139.95826	15.21927	0.1205067	0.23202250	2.6229055	21	2 18.6	19.4
452484 2004 DN_{35}	17.2	X	28.11443	290.41551	257.02033	4.60477	0.2543756	0.23492230	2.6012767	21	4 9.3	19.0
452485 2004 DB_{64}	16.6	X	137.76325	206.98655	105.67330	5.60225	0.1082740	0.21372812	2.7705220	21	—	—
452486 2004 EU_{44}	17.4	X	276.56463	4.87844	241.96019	5.67385	0.1642833	0.22459543	2.6804154	21	1 9.3	21.5
452487 2004 FB_{1}	17.2	X	212.68376	114.65405	135.35303	12.00682	0.1642902	0.21295107	2.7772576	21	—	—
452488 2004 FW_{25}	16.8	X	23.75677	145.77709	35.70237	2.74022	0.2701444	0.23105429	2.6302278	21	3 21.9	18.4
452489 2004 FN_{38}	16.4	X	35.30615	221.88382	352.39637	17.39322	0.1323333	0.23703354	2.5858074	21	5 24.6	19.7
452490 2004 FA_{126}	17.4	X	27.38968	1.13976	190.38216	7.61331	0.2678964	0.23315335	2.6144175	21	4 19.4	18.9
452491 2004 FB_{131}	16.6	X	15.05488	114.90688	98.02910	12.53387	0.1406798	0.23303129	2.6153304	21	4 26.2	19.5
452492 2004 GH_{29}	16.9	X	276.90839	217.51559	28.54369	12.72689	0.1953146	0.22023066	2.7157151	21	1 9.4	21.4
452493 2004 GS_{56}	18.4	X	179.55568	129.55366	357.31417	3.75291	0.1065991	0.30404527	2.1903350	21	8 8.5	21.3
452494 2004 HX_{32}	16.8	X	322.80741	214.76184	39.90271	16.61337	0.1248718	0.22675595	2.6633623	21	3 28.1	20.3
452495 2004 PO_{22}	17.2	X	331.91602	353.10554	294.99738	6.21153	0.1081645	0.28341120	2.2953982	21	5 16.7	19.5
452496 2004 PZ_{33}	18.2	X	249.94575	56.83778	305.51759	2.06775	0.2508012	0.27746424	2.3280807	21	4 23.8	22.1
452497 2004 PW_{63}	16.5	X	62.17524	156.02260	230.42445	3.95358	0.2240674	0.19213571	2.9743860	21	—	—
452498 2004 QG_{1}	15.8	X	69.85098	77.09898	291.78798	14.71931	0.4416857	0.18441540	3.0568299	21	—	—
452499 2004 QP_{10}	17.4	X	338.81454	249.53349	59.90212	7.78216	0.1455830	0.28514777	2.2860693	21	7 1.9	19.3
452500 2004 RW_{9}	17.8	X	83.75020	75.73354	280.20287	18.31840	0.1050368	0.36629970	1.9345428	21	—	—
452501 2004 RN_{28}	18.1	X	284.71256	182.39400	151.14621	3.40835	0.2475747	0.27992395	2.3144227	21	4 22.5	21.3
452502 2004 RT_{52}	17.7	X	230.22779	57.14927	0.44355	5.83295	0.2037430	0.27949131	2.3168105	21	6 21.2	21.4
452503 2004 RT_{84}	17.9	X	61.68614	35.10972	331.72330	20.30446	0.1087418	0.36382206	1.9433157	21	—	—
452504 2004 RF_{91}	17.3	X	46.30953	167.14068	168.34083	21.04895	0.3407003	0.18268428	3.0761105	21	12 24.5	22.2
452505 2004 RL_{99}	17.3	X	255.82082	199.95077	199.23898	5.14017	0.1615216	0.28227642	2.3015459	21	6 27.9	20.4
452506 2004 RS_{178}	17.9	X	254.32491	138.02145	213.60227	5.39004	0.2332277	0.27616983	2.3353495	21	4 16.0	21.4
452507 2004 RL_{179}	16.3	X	259.32978	319.20478	331.17953	12.82533	0.1999981	0.21098519	2.7944825	21	2 14.6	20.9
452508 2004 RM_{184}	17.5	X	287.96782	92.41479	276.16791	5.44942	0.1436262	0.28358642	2.2944526	21	6 30.8	20.1
452509 2004 RU_{185}	16.2	X	53.54210	158.73587	203.57571	5.01990	0.1899965	0.18467013	3.0540182	21	—	—
452510 2004 RO_{203}	18.0	X	269.70686	321.89912	10.11742	7.08009	0.2192076	0.27481405	2.3430242	21	4 6.6	21.3
452511 2004 RD_{251}	15.9	X	74.72214	83.19734	251.95731	14.81063	0.1443925	0.18467395	3.0539761	21	12 28.0	20.6
452512 2004 RL_{265}	16.9	X	62.43933	20.36912	0.45069	11.78592	0.1604700	0.18931043	3.0039061	21	—	—
452513 2004 RZ_{266}	18.6	X	251.06288	157.14217	241.10838	1.42950	0.2080883	0.28069291	2.3101938	21	6 15.9	21.7
452514 2004 RU_{291}	16.3	X	58.22403	49.48361	292.50707	8.26018	0.1278600	0.18288602	3.0738479	21	12 17.1	20.7
452515 2004 RC_{301}	16.8	X	76.03605	328.70190	39.66571	2.03211	0.1611701	0.18942799	3.0026632	21	—	—
452516 2004 RW_{321}	18.1	X	257.50040	121.00477	227.10538	3.35847	0.2404461	0.27522258	2.3407049	21	4 13.6	21.9
452517 2004 RY_{335}	18.3	X	207.07644	145.57422	256.38855	2.47715	0.1683672	0.27202882	2.3589900	21	5 11.3	22.0
452518 2004 RA_{356}	17.0	X	34.95320	32.33265	0.13587	7.74357	0.2835853	0.18255343	3.0775802	21	—	—
452519 2004 SJ_{53}	18.1	X	283.45417	190.36340	198.01081	5.75230	0.1711978	0.28387065	2.2929208	21	7 17.4	20.8
452520 2004 TK_{4}	17.1	X	316.80535	214.66743	205.09379	0.80487	0.2121821	0.17219810	3.1997581	21	10 13.5	20.3
452521 2004 TW_{16}	16.1	X	358.49788	157.97775	233.49803	23.67231	0.1898794	0.17653417	3.1471457	21	11 29.6	19.6
452522 2004 TO_{40}	17.9	X	147.54203	56.31923	14.54855	3.26367	0.1792079	0.26618342	2.3934005	21	4 22.8	21.5
452523 2004 TT_{53}	16.1	X	22.27440	345.77363	36.92232	14.35731	0.1499935	0.17838990	3.1252820	21	12 21.5	20.3
452524 2004 TL_{58}	17.8	X	225.84436	51.21839	14.06186	5.65233	0.2197674	0.27812567	2.3243883	21	6 26.2	21.5
452525 2004 TT_{71}	17.9	X	238.06389	111.73409	267.95407	0.36106	0.2008737	0.27487251	2.3426919	21	5 9.9	21.5
452526 2004 TJ_{76}	16.2	X	81.20066	111.61419	181.40985	9.34635	0.0821545	0.17830421	3.1262832	21	11 9.9	20.8
452527 2004 TN_{77}	16.2	X	111.87974	104.39190	215.41540	15.18752	0.1241338	0.18421560	3.0590397	21	—	—
452528 2004 TP_{83}	18.4	X	228.78262	40.00904	358.25076	0.94391	0.1948078	0.27579237	2.3374799	21	5 25.7	22.2
452529 2004 TP_{95}	18.3	X	267.75923	125.57735	194.73393	1.14431	0.1525946	0.27144665	2.3623617	21	3 28.1	21.5
452530 2004 TY_{95}	16.5	X	69.94718	323.40445	25.57802	10.43851	0.0895362	0.18294280	3.0732119	21	—	—
452531 2004 TQ_{143}	18.2	X	255.75362	0.07598	349.74044	1.31983	0.1934833	0.27344882	2.3508163	21	4 18.5	21.6
452532 2004 TV_{152}	17.4	X	70.56176	173.15232	198.12298	6.70256	0.1887931	0.18706874	3.0278561	21	—	—
452533 2004 TC_{164}	15.9	X	4.08216	291.66671	53.77867	5.40774	0.1784529	0.17117700	3.2124702	21	10 10.1	19.5
452534 2004 TG_{175}	16.6	X	72.22236	116.25983	208.85295	15.88959	0.3571470	0.18315374	3.0708518	21	—	—
452535 2004 TM_{201}	16.5	X	31.14021	128.20010	242.45704	8.12153	0.1878104	0.17761803	3.1343298	21	12 24.9	20.6
452536 2004 TM_{211}	18.6	X	270.20439	47.55935	290.47230	1.56204	0.2113218	0.27454803	2.3445374	21	4 15.5	22.2
452537 2004 TF_{215}	18.2	X	222.34880	88.36961	322.01901	1.73044	0.1634487	0.27670809	2.3323201	21	6 6.4	21.6
452538 2004 TX_{265}	17.0	X	89.69251	101.33920	228.49155	1.11734	0.2643507	0.18478870	3.0527116	21	—	—
452539 2004 TZ_{272}	16.2	X	53.71373	339.66673	35.32121	15.18894	0.1708805	0.18212406	3.0824154	21	—	—
452540 2004 TH_{275}	17.7	X	252.44965	125.75655	220.35869	5.26640	0.2314619	0.27184634	2.3600456	21	4 7.2	21.4
452541 2004 TT_{335}	16.1	X	4.28868	321.34934	45.17737	12.19710	0.0641836	0.17202036	3.2019618	21	10 28.5	20.3
452542 2004 TD_{343}	18.6	X	222.36854	175.40148	209.25712	3.72123	0.2108171	0.27112278	2.3642426	21	5 2.2	22.5
452543 2004 TC_{369}	17.9	X	208.17245	216.50520	224.13844	9.30522	0.1807742	0.27456146	2.3444609	21	6 30.9	21.7
452544 2004 UX_{4}	17.1	X	112.76405	137.81869	261.40788	19.45514	0.0608108	0.37222521	1.9139571	21	—	—
452545 2004 VB_{14}	15.2	X	67.43982	90.99153	257.81008	14.74476	0.2908074	0.18125934	3.0922110	21	—	—
452546 2004 VD_{37}	17.1	X	119.20197	352.13840	229.44228	10.82555	0.0617742	0.28424778	2.2908922	21	9 30.3	20.3
452547 2004 VD_{66}	18.5	X	239.23827	76.04280	301.26772	0.79644	0.1843547	0.27334256	2.3514254	21	5 9.1	22.0
452548 2004 VC_{81}	17.5	X	325.92057	125.32250	225.57995	10.58035	0.1764895	0.28351967	2.2948127	21	8 3.8	19.8
452549 2004 WS	17.8	X	63.08207	338.14686	60.83769	28.42855	0.0688492	0.36386601	1.9431592	21	—	—
452550 2004 WG_{6}	15.8	X	64.90815	100.95312	261.69922	10.26379	0.2765882	0.18302768	3.0722617	21	—	—
452551 2004 XV_{29}	17.0	X	49.10974	146.24334	249.05072	7.48090	0.2983285	0.18354228	3.0665164	21	—	—
452552 2004 XJ_{68}	16.3	X	325.04414	3.85009	112.53143	11.92452	0.1845598	0.17554665	3.1589374	21	—	—
452553 2004 XC_{73}	17.2	X	207.05235	205.30787	243.33837	8.57847	0.1998354	0.27428432	2.3460399	21	7 9.2	21.0
452554 2004 XC_{110}	17.5	X	235.73874	330.11767	59.58478	6.97864	0.2500541	0.27301595	2.3533004	21	5 17.8	21.2
452555 2004 XR_{148}	17.7	X	219.58461	318.76458	104.36358	3.25502	0.1973374	0.27386456	2.3484365	21	6 18.9	21.3
452556 2004 XW_{155}	15.8	X	312.23862	64.01856	81.50446	23.85229	0.1603882	0.17898784	3.1183178	21	—	—
452557 2004 YO_{2}	16.6	X	154.06788	103.33137	56.21008	23.71648	0.2692563	0.26974507	2.3722860	21	9 8.6	21.3
452558 2004 YL_{12}	18.3	X	145.69733	16.22295	85.99390	2.51031	0.1370711	0.26213484	2.4179810	21	5 29.6	21.7
452559 2004 YV_{26}	18.3	X	127.61082	9.36543	118.11986	4.42197	0.1209173	0.26184253	2.4197802	21	6 10.9	21.7
452560 2004 YU_{27}	16.1	X	20.90444	117.33248	276.05769	25.41744	0.2123414	0.17555870	3.1587929	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
452561 2005 AB	17.5	X	294.20992	63.75421	126.22250	8.15345	0.6546638	0.17056707	3.2201239	21	12 3.8	21.3
452562 2005 AM_{24}	16.8	X	114.06534	200.25414	290.04391	10.44399	0.1838748	0.25866950	2.4395285	21	6 6.1	20.3
452563 2005 AF_{31}	15.1	X	337.46642	297.59366	109.76575	28.10777	0.2269111	0.16940765	3.2347995	21	11 20.4	19.0
452564 2005 AX_{37}	15.3	X	24.29071	311.70135	116.30016	27.62393	0.0898504	0.17530688	3.1618170	21	—	—
452565 2005 AW_{65}	18.3	X	167.46189	312.41754	136.44320	2.98343	0.1415743	0.26348691	2.4097021	21	6 4.1	22.0
452566 2005 AJ_{68}	15.9	X	272.76628	4.52000	153.81084	18.76608	0.3336067	0.16716052	3.2637252	21	11 21.9	20.7
452567 2005 AX_{72}	16.4	X	13.11768	339.74548	118.83723	10.21349	0.0268719	0.17738541	3.1370694	21	—	—
452568 2005 BM_{15}	18.4	X	160.99523	306.56487	167.98935	2.30502	0.2017527	0.26556627	2.3971071	21	7 3.1	22.4
452569 2005 BK_{36}	17.4	X	232.26716	275.25687	115.79499	6.38105	0.1921313	0.26673805	2.3900816	21	5 22.0	21.2
452570 2005 CV_{7}	15.8	X	318.43799	239.28175	290.76956	15.04391	0.1957044	0.17664542	3.1458243	21	—	—
452571 2005 CF_{24}	15.9	X	347.46470	234.94672	276.78312	14.12825	0.1899680	0.18016889	3.1046752	21	—	—
452572 2005 CV_{26}	16.0	X	338.78254	150.40470	339.12851	14.85923	0.2165255	0.17476960	3.1682939	21	—	—
452573 2005 DU_{1}	16.5	X	145.90084	106.32528	60.70894	23.84304	0.2372049	0.26657621	2.3910489	21	9 10.9	21.1
452574 2005 ES_{36}	15.7	X	303.65767	35.60604	154.34995	27.93742	0.0799051	0.17558005	3.1585368	21	—	—
452575 2005 EK_{109}	15.7	X	344.24608	179.78497	341.30150	17.41014	0.1498464	0.17956310	3.1116541	21	—	—
452576 2005 EU_{162}	16.9	X	195.12259	216.28462	155.06441	3.33601	0.1757984	0.24710749	2.5150431	21	3 25.7	21.0
452577 2005 EA_{189}	15.6	X	310.34409	266.73192	313.16668	19.38534	0.4164269	0.17597364	3.1538253	21	—	—
452578 2005 EV_{221}	16.1	X	316.42532	198.21863	315.67202	9.89529	0.1324677	0.17230690	3.1984110	21	—	—
452579 2005 EB_{276}	17.5	X	135.19488	334.70071	217.18812	9.31705	0.1532824	0.26661481	2.3908181	21	9 12.7	21.4
452580 2005 GW_{49}	17.7	X	8.44908	6.39740	192.98565	7.18899	0.1187793	0.24370868	2.5383727	21	3 15.4	20.5
452581 2005 GZ_{112}	16.7	X	255.06382	123.77502	113.38790	12.19564	0.1969475	0.22886663	2.6469621	21	—	—
452582 2005 GM_{130}	17.3	X	329.89855	36.76448	213.88987	15.16552	0.1470537	0.24263506	2.5458551	21	3 15.9	20.6
452583 2005 JF_{47}	16.8	X	206.17284	250.60990	50.16900	12.30825	0.1999015	0.22711333	2.6605676	21	1 13.5	21.5
452584 2005 JE_{58}	16.9	X	159.36486	158.11090	220.99466	13.41369	0.0578387	0.23625858	2.5914589	21	2 15.2	20.8
452585 2005 JG_{61}	17.1	X	104.77191	6.73342	120.61324	5.90210	0.1083664	0.24530775	2.5273295	21	5 14.0	20.5
452586 2005 JP_{71}	17.0	X	262.56997	135.94591	100.62021	14.45780	0.1196427	0.22735499	2.6586820	21	—	—
452587 2005 JH_{79}	16.9	X	183.66339	273.78509	46.77657	12.95437	0.1927225	0.22558229	2.6725923	21	1 19.1	21.5
452588 2005 JM_{95}	16.8	X	306.12569	46.37599	193.02749	18.31533	0.2019126	0.24056233	2.5604579	21	1 20.9	20.9
452589 2005 JF_{103}	17.4	X	140.83365	185.56729	140.76832	13.81731	0.2966172	0.21523545	2.7575719	21	—	—
452590 2005 JO_{118}	17.5	X	356.14908	6.45055	206.97148	9.01439	0.1126544	0.24037449	2.5617916	21	3 13.7	20.5
452591 2005 JC_{134}	16.5	X	184.88954	130.36388	220.54472	26.84744	0.1006116	0.23445847	2.6047063	21	2 8.0	21.1
452592 2005 JJ_{177}	18.1	X	10.99253	195.37189	102.16962	9.86035	0.3611212	0.31224963	2.1517976	21	10 17.3	19.6
452593 2005 LO	17.9	X	1.21995	113.99589	92.71528	14.01848	0.1372999	0.23990460	2.5651356	21	3 21.7	20.9
452594 2005 LA_{3}	16.9	X	257.75539	185.17554	93.39688	15.00637	0.1483720	0.23162074	2.6259377	21	2 1.4	21.1
452595 2005 LB_{9}	17.4	X	194.71580	111.73418	219.61752	14.67910	0.1128457	0.22867058	2.6484749	21	1 30.5	21.8
452596 2005 LE_{11}	17.0	X	65.22391	32.35655	128.28500	8.71805	0.0801746	0.24299405	2.5433470	21	4 30.8	20.2
452597 2005 LW_{13}	17.2	X	219.92951	163.03274	131.47649	4.92716	0.1125667	0.22800927	2.6535934	21	1 15.4	21.4
452598 2005 LK_{35}	16.7	X	172.08921	45.97043	275.38878	13.41561	0.1964970	0.21749236	2.7384620	21	1 8.2	21.1
452599 2005 MT_{25}	16.7	X	186.36202	167.31848	130.35022	8.12851	0.1075536	0.21609849	2.7502250	21	—	—
452600 2005 MY_{36}	16.4	X	276.43373	11.01774	266.90353	13.76863	0.2113529	0.23043259	2.6349565	21	2 5.8	20.8
452601 2005 NZ_{3}	17.1	X	128.81066	88.17470	269.09639	2.46128	0.1849158	0.21327627	2.7744337	21	1 9.2	21.0
452602 2005 NJ_{7}	16.8	X	144.79051	59.00848	297.01542	9.54908	0.1620285	0.21637772	2.7478584	21	1 21.3	20.9
452603 2005 NN_{31}	17.5	X	178.18737	164.29489	134.90053	4.29567	0.1666616	0.21547348	2.7555407	21	—	—
452604 2005 NA_{35}	16.6	X	356.28653	262.05878	307.75668	11.19758	0.2155590	0.23462743	2.6034557	21	2 23.7	19.3
452605 2005 NW_{78}	16.7	X	147.72791	0.03388	305.30631	13.04416	0.1814611	0.21000313	2.8031879	21	—	—
452606 2005 NV_{92}	16.7	X	69.88538	238.75106	117.85059	15.95448	0.1572349	0.20389032	2.8589395	21	—	—
452607 2005 OO_{1}	16.2	X	112.84901	17.09823	9.06380	12.39744	0.3213079	0.21191610	2.7862927	21	2 18.4	20.4
452608 2005 PU	18.3	X	333.67106	211.41172	120.17155	7.82183	0.2217150	0.30626458	2.1797409	21	7 20.1	19.2
452609 2005 PR_{15}	16.8	X	129.62142	21.11341	350.40260	4.37911	0.2183714	0.21283806	2.7782406	21	2 1.7	20.9
452610 2005 QD_{27}	17.9	X	1.51941	216.31893	89.27224	3.40521	0.1767931	0.30539037	2.1838987	21	8 24.1	19.1
452611 2005 QZ_{53}	17.0	X	162.00123	154.98871	153.92467	8.32145	0.2130416	0.21122998	2.7923231	21	—	—
452612 2005 QM_{80}	18.2	X	293.74261	220.59749	130.95382	4.28837	0.2033124	0.30111932	2.2045010	21	6 3.6	20.8
452613 2005 QD_{92}	18.4	X	327.58890	105.93515	218.70708	0.87413	0.2290089	0.30350732	2.1929224	21	6 18.3	19.6
452614 2005 QA_{123}	16.9	X	158.42487	166.44665	168.97256	6.65063	0.0525866	0.21249529	2.7812275	21	—	—
452615 2005 QM_{123}	18.4	X	289.13305	224.70298	178.81859	1.63293	0.0735206	0.30777680	2.1725951	21	9 8.5	20.5
452616 2005 QM_{128}	17.1	X	225.13701	129.74411	146.67264	9.16262	0.1340696	0.21572266	2.7534184	21	—	—
452617 2005 QX_{147}	16.8	X	179.59455	225.50493	70.80034	7.10529	0.2130375	0.21306381	2.7762778	21	—	—
452618 2005 RT	16.4	X	171.16753	53.54019	260.88844	11.54421	0.2401440	0.21229059	2.7830151	21	1 3.1	21.1
452619 2005 RZ_{31}	18.1	X	276.92358	73.56906	349.69603	3.79053	0.0941552	0.30800726	2.1715112	21	9 15.4	20.1
452620 2005 SQ_{25}	18.8	X	334.80997	249.41921	93.50329	1.86099	0.2121071	0.30572478	2.1823059	21	8 18.1	19.6
452621 2005 SZ_{47}	18.2	X	3.90580	48.11853	258.44995	1.60537	0.2011165	0.30503344	2.1856020	21	8 31.9	19.4
452622 2005 SB_{49}	18.4	X	76.52326	190.97973	188.50177	3.18052	0.3375566	0.20023642	2.8936145	21	—	—
452623 2005 SZ_{66}	17.6	X	82.66020	183.46068	190.06299	5.36779	0.1274233	0.20216051	2.8752250	21	—	—
452624 2005 SW_{100}	17.0	X	43.08152	208.34309	242.61495	5.33848	0.1322518	0.20515480	2.8471800	21	—	—
452625 2005 SV_{126}	17.0	X	143.57204	344.61000	13.01842	8.98498	0.0337229	0.21013819	2.8019866	21	1 9.4	21.0
452626 2005 SA_{168}	17.9	X	315.02316	42.67024	311.85817	6.76892	0.2127302	0.30444458	2.1884194	21	7 16.4	19.3
452627 2005 SA_{174}	16.8	X	147.53339	120.79361	215.21733	7.10532	0.2324236	0.21060439	2.7978500	21	1 7.6	21.3
452628 2005 SK_{241}	18.4	X	13.18346	43.08916	257.33962	2.65175	0.1956033	0.30501281	2.1857006	21	9 11.9	20.0
452629 2005 SJ_{254}	18.2	X	307.03831	358.65517	8.67250	7.37659	0.1989842	0.30500333	2.1857458	21	7 26.1	20.1
452630 2005 SZ_{281}	17.4	X	2.84530	320.96154	153.49992	11.27089	0.1093806	0.20201671	2.8765893	21	—	—
452631 2005 TT_{29}	18.4	X	284.63071	254.37855	111.55288	2.49048	0.2107907	0.29892666	2.2152681	21	6 10.2	21.0
452632 2005 TA_{42}	18.4	X	286.90635	119.31999	228.28628	2.02387	0.2252976	0.29715225	2.2240781	21	5 15.2	21.3
452633 2005 TM_{50}	16.7	X	138.66758	53.20171	294.87184	8.47866	0.1834515	0.20924664	2.8099400	21	1 9.7	20.8
452634 2005 TJ_{106}	18.4	X	230.05098	54.60933	15.06905	5.16726	0.1091921	0.29631274	2.2282770	21	7 17.9	21.3
452635 2005 TU_{122}	17.5	X	92.60867	231.49285	179.86042	2.30513	0.0865957	0.20875531	2.8143474	21	1 17.4	21.0
452636 2005 TN_{126}	17.1	X	39.28787	259.18235	177.74875	1.93180	0.0438523	0.20298612	2.8674234	21	—	—
452637 2005 TZ_{156}	18.8	X	50.13547	38.52543	241.84997	3.28471	0.1436032	0.30748884	2.1739513	21	10 8.9	21.2
452638 2005 TO_{191}	17.3	X	108.01474	252.33072	104.46136	2.25245	0.1913291	0.20288722	2.8683552	21	—	—
452639 2005 UY_{6}	18.2	X	197.52339	180.76455	343.57196	12.20915	0.8710847	0.29098928	2.2553713	21	9 11.9	24.0
452640 2005 UG_{66}	16.3	X	358.18140	164.76491	232.65425	8.20256	0.1120122	0.18911405	3.0059853	21	12 3.2	19.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
452641 2005 UP_{84}	17.3	X	54.64644	356.86975	63.75664	2.88201	0.0744095	0.20157321	2.8808071	21	—	—
452642 2005 UH_{85}	16.4	X	72.83528	284.57874	44.70485	12.12946	0.1596029	0.19177832	2.9780802	21	12 22.7	21.0
452643 2005 UJ_{115}	18.3	X	354.08253	327.73761	11.14731	2.59949	0.1302811	0.30506748	2.1854394	21	9 28.4	19.9
452644 2005 UK_{116}	16.2	X	100.06603	195.32927	245.96944	8.77025	0.1642340	0.21145412	2.7903496	21	3 13.6	20.1
452645 2005 UW_{128}	18.4	X	291.73254	112.52279	235.03058	1.06872	0.2157982	0.29587817	2.2304582	21	5 23.1	21.1
452646 2005 UZ_{129}	16.8	X	354.57710	105.88107	38.48623	7.27134	0.0143313	0.20455000	2.8527895	21	—	—
452647 2005 UK_{134}	16.8	X	232.34704	105.50497	236.21198	11.95155	0.1926414	0.22206151	2.7007674	21	3 18.4	21.5
452648 2005 UZ_{142}	18.0	X	303.98970	82.91086	235.27325	5.64887	0.1891706	0.29188090	2.2507760	21	5 1.8	20.5
452649 2005 UN_{185}	18.5	X	270.76572	19.14535	56.62557	6.59716	0.0675605	0.30235285	2.1985010	21	10 1.9	20.9
452650 2005 UG_{228}	16.8	X	99.36489	268.49898	77.23358	3.46906	0.1546464	0.19771037	2.9182091	21	—	—
452651 2005 UP_{231}	19.1	X	319.46809	120.40493	211.31337	1.41863	0.2674291	0.29954514	2.2122177	21	6 4.3	21.0
452652 2005 UU_{258}	17.4	X	62.85851	208.53332	171.13391	2.03263	0.1049747	0.19639440	2.9312306	21	—	—
452653 2005 UE_{264}	18.0	X	336.58640	217.57550	53.78134	6.50650	0.1546625	0.29107307	2.2549385	21	4 23.9	20.1
452654 2005 UT_{334}	17.4	X	42.69631	190.78996	75.61270	7.70305	0.1399650	0.29646952	2.2274913	21	9 10.5	19.8
452655 2005 UO_{364}	16.2	X	56.99106	272.64313	65.06486	10.00713	0.1273016	0.18898075	3.0073987	21	12 11.0	20.5
452656 2005 UW_{406}	17.5	X	142.63843	263.54129	75.25075	3.10251	0.0801873	0.20671529	2.8328330	21	—	—
452657 2005 UA_{449}	16.3	X	359.50487	5.22706	31.69854	8.89576	0.0939105	0.18707541	3.0277842	21	11 30.9	20.2
452658 2005 UN_{472}	18.6	X	338.05288	86.28294	234.34993	5.45619	0.2503926	0.29990071	2.2104688	21	7 5.8	19.5
452659 2005 UZ_{487}	17.5	X	87.98475	114.47038	246.32174	14.24983	0.2713879	0.20074500	2.8887252	21	—	—
452660 2005 UU_{488}	17.7	X	28.85340	319.13965	359.88580	6.95809	0.1151424	0.30819053	2.1706503	21	10 27.6	19.9
452661 2005 UD_{512}	16.7	X	113.82523	167.21413	240.05455	12.43338	0.1939536	0.20949884	2.8076845	21	2 18.7	20.9
452662 2005 VE_{9}	16.3	X	36.28774	308.44635	63.25459	11.44629	0.1352002	0.18935681	3.0034156	21	12 28.2	20.4
452663 2005 VS_{23}	16.9	X	184.52431	260.98584	40.05567	9.59587	0.1226453	0.20429598	2.8551537	21	—	—
452664 2005 VA_{24}	17.1	X	346.01229	13.18069	37.18314	5.81607	0.1376515	0.18640313	3.0350598	21	11 30.1	20.7
452665 2005 WX_{46}	16.8	X	11.77239	324.17735	62.96611	6.87613	0.1378918	0.18555368	3.0443156	21	12 12.5	20.4
452666 2005 WP_{54}	16.6	X	118.05786	227.62392	265.84168	22.53048	0.3119605	0.28119162	2.3074615	21	6 26.5	20.3
452667 2005 WO_{66}	17.1	X	153.73867	108.95101	217.46330	1.34886	0.0403728	0.20002336	2.8956689	21	—	—
452668 2005 WQ_{92}	16.6	X	254.65140	333.34946	247.42095	10.06333	0.0587152	0.19686810	2.9265267	21	—	—
452669 2005 WH_{100}	18.5	X	299.01455	148.06075	231.85149	4.54779	0.1472699	0.29900178	2.2148970	21	8 4.3	20.5
452670 2005 WU_{122}	16.7	X	95.95629	316.04030	53.70589	9.07686	0.2148962	0.20120821	2.8842899	21	—	—
452671 2005 WG_{133}	16.3	X	119.98433	220.94544	70.60052	10.68769	0.0808068	0.18690300	3.0296459	21	12 18.4	20.9
452672 2005 WN_{143}	17.1	X	294.88144	213.44716	71.39014	7.94740	0.1099299	0.28007358	2.3135983	21	3 22.2	20.1
452673 2005 WQ_{146}	16.8	X	107.85419	121.26389	281.81913	4.68521	0.0689424	0.20408751	2.8570978	21	1 25.5	20.8
452674 2005 WU_{161}	18.1	X	324.83486	268.26889	96.81248	1.77511	0.0346283	0.29956916	2.2120994	21	9 13.7	20.2
452675 2005 WD_{175}	18.5	X	229.24969	137.67164	307.63445	0.92384	0.1444404	0.29288860	2.2456104	21	8 2.7	21.7
452676 2005 WP_{179}	15.8	X	39.87758	189.88668	274.65793	14.21138	0.0988267	0.20320740	2.8653414	21	1 8.7	19.2
452677 2005 WS_{204}	18.3	X	272.93422	29.67548	37.05010	6.02785	0.1512722	0.30493209	2.1860863	21	9 7.1	20.6
452678 2005 XC_{16}	17.8	X	239.76297	15.67195	82.48866	7.05537	0.1119944	0.29863867	2.2166920	21	9 12.1	20.6
452679 2005 XZ_{20}	17.2	X	76.36183	337.46351	52.06887	2.61742	0.0946545	0.19964521	2.8993243	21	—	—
452680 2005 XA_{25}	15.6	X	321.56958	2.13832	70.82745	11.07665	0.1153937	0.18062468	3.0994501	21	11 19.1	19.4
452681 2005 XZ_{39}	18.8	X	201.51501	110.78479	16.47960	1.25069	0.1583977	0.29301367	2.2449713	21	8 29.1	22.0
452682 2005 XF_{44}	17.1	X	37.89168	32.64746	43.06066	2.53426	0.0739377	0.19715865	2.9236508	21	—	—
452683 2005 XB_{59}	16.3	X	262.00027	252.73398	262.70537	11.95117	0.0351875	0.18564970	3.0432658	21	12 16.2	20.4
452684 2005 XK_{59}	16.2	X	110.78061	353.19582	295.18748	3.47432	0.1612547	0.18378964	3.0637644	21	12 10.6	21.2
452685 2005 XT_{68}	17.2	X	82.82138	21.04964	14.05033	1.84188	0.0654275	0.19817255	2.9136701	21	—	—
452686 2005 XN_{71}	15.8	X	181.42815	237.49346	75.11626	13.96313	0.0761378	0.19877282	2.9078013	21	1 2.6	20.2
452687 2005 XX_{80}	16.5	X	305.70919	38.86375	77.78884	12.04965	0.0624846	0.18646214	3.0344194	21	12 22.9	20.4
452688 2005 XC_{81}	16.6	X	309.72982	30.98330	73.61977	10.94064	0.0543971	0.18539243	3.0460805	21	12 13.9	20.5
452689 2005 XF_{85}	18.1	X	247.64160	7.71712	62.12934	6.08803	0.0703814	0.29605910	2.2295495	21	8 17.7	20.8
452690 2005 XK_{116}	15.9	X	213.11883	286.42547	270.40628	15.16345	0.0493013	0.18185986	3.0854000	21	12 5.3	20.4
452691 2005 YW_{3}	15.2	X	258.86202	66.34261	115.97870	22.51018	0.5390366	0.17949397	3.1124530	21	11 16.3	20.7
452692 2005 YA_{12}	18.0	X	223.67457	204.73849	281.58667	4.80702	0.0621962	0.29819490	2.2188907	21	9 30.9	20.9
452693 2005 YB_{21}	18.2	X	194.71777	184.44896	287.72435	4.59690	0.1491807	0.28925204	2.2643928	21	7 31.9	21.6
452694 2005 YA_{29}	17.9	X	125.27608	257.68839	95.19554	22.52092	0.1140649	0.38602658	1.8680618	21	—	—
452695 2005 YE_{31}	16.0	X	90.07941	81.62657	290.87184	9.77816	0.0919056	0.19095290	2.9866561	21	—	—
452696 2005 YL_{37}	15.8	X	272.09523	192.87514	288.77354	15.52610	0.1520598	0.18135234	3.0911538	21	10 25.7	20.3
452697 2005 YW_{53}	18.7	X	199.08732	116.45467	6.28021	1.26788	0.1795188	0.29084401	2.2561223	21	8 19.1	22.1
452698 2005 YR_{63}	16.3	X	59.78165	301.37998	97.62051	8.97565	0.0819315	0.19089745	2.9872344	21	—	—
452699 2005 YU_{64}	17.7	X	28.09173	161.74614	100.75646	7.74038	0.1442187	0.28607729	2.2811147	21	8 3.9	19.7
452700 2005 YO_{72}	17.3	X	341.38813	56.52816	69.16901	3.73427	0.1084878	0.19163036	2.9796128	21	—	—
452701 2005 YZ_{74}	17.3	X	4.77918	348.95815	29.26125	0.78163	0.1798824	0.18058276	3.0999298	21	11 23.7	20.7
452702 2005 YH_{79}	18.4	X	128.24467	254.44754	292.89373	3.19988	0.0814911	0.28940820	2.2635782	21	8 29.1	21.4
452703 2005 YN_{84}	16.3	X	56.52563	112.03492	282.55167	12.99931	0.2180291	0.19043677	2.9920500	21	—	—
452704 2005 YK_{88}	16.6	X	340.78231	151.60819	291.14725	7.91463	0.0937279	0.18324209	3.0698646	21	12 31.2	20.5
452705 2005 YX_{92}	18.3	X	194.65981	275.06791	129.30965	2.99215	0.1702031	0.28014318	2.3132150	21	5 3.9	22.0
452706 2005 YL_{103}	16.5	X	31.94592	276.24185	102.54107	10.97317	0.0933545	0.18422687	3.0589149	21	12 24.6	20.5
452707 2005 YA_{111}	16.2	X	344.74555	197.91913	270.88349	8.73799	0.0561153	0.18819434	3.0157709	21	—	—
452708 2005 YQ_{111}	16.0	X	23.52022	169.79123	271.49180	9.65586	0.0753041	0.19098542	2.9863170	21	—	—
452709 2005 YT_{120}	16.4	X	319.66390	323.30390	127.62417	12.30556	0.0839777	0.18075899	3.0979146	21	12 10.8	20.5
452710 2005 YA_{122}	16.0	X	318.10823	39.26412	99.86602	11.55071	0.0844648	0.18711718	3.0273336	21	—	—
452711 2005 YA_{124}	18.2	X	141.69156	278.53334	102.82430	22.98818	0.1260312	0.39311422	1.8455403	21	1 7.3	19.3
452712 2005 YV_{130}	18.1	X	168.08519	184.82213	299.42613	5.23316	0.1619054	0.28455344	2.2892514	21	7 21.9	21.6
452713 2005 YP_{136}	18.3	X	311.21424	276.54386	86.14875	6.05044	0.2056594	0.29461961	2.2368058	21	7 23.4	20.2
452714 2005 YY_{137}	16.5	X	132.49477	330.62273	293.55745	17.54324	0.1298680	0.17726430	3.1384980	21	11 28.9	21.8
452715 2005 YN_{159}	16.8	X	2.34881	174.23859	267.03641	8.80290	0.0597153	0.18748189	3.0234062	21	—	—
452716 2005 YS_{160}	16.9	X	352.12992	165.07645	258.95775	8.20305	0.1268051	0.18366183	3.0651856	21	12 26.9	20.5
452717 2005 YZ_{185}	16.5	X	346.64132	172.86759	317.28985	8.33831	0.0887067	0.18973191	2.9994558	21	—	—
452718 2005 YV_{187}	16.6	X	51.88955	291.15010	112.49770	6.77641	0.1872647	0.19137992	2.9822117	21	—	—
452719 2005 YD_{199}	16.7	X	81.13101	255.66605	106.23292	10.29287	0.0687147	0.18812039	3.0165612	21	—	—
452720 2005 YJ_{199}	17.8	X	147.26150	122.03366	26.59276	3.36974	0.2207078	0.28441937	2.2899707	21	8 6.8	21.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
452721 2005 YT_{215}	16.4	X	40.39946	245.58215	112.49493	18.33016	0.2075150	0.18201712	3.0836226	21	12 26.7	20.7
452722 2005 YE_{253}	16.6	X	318.57021	218.21232	309.43459	9.77990	0.0395803	0.19162775	2.9796399	21	—	—
452723 2005 YA_{266}	17.0	X	336.33614	296.42400	204.13142	2.78627	0.1149976	0.19078816	2.9883751	21	—	—
452724 2005 YT_{275}	16.6	X	355.42068	302.08042	276.54225	11.69609	0.1660766	0.21000104	2.8032064	21	3 15.1	20.1
452725 2006 AX_{7}	16.0	X	272.62322	256.16199	273.71043	8.99967	0.2391522	0.17946394	3.1128002	21	12 17.8	20.0
452726 2006 AN_{36}	18.4	X	257.18960	61.91296	327.28003	2.78581	0.2164596	0.28844048	2.2686382	21	6 8.7	21.6
452727 2006 AR_{37}	16.2	X	336.00666	343.22718	121.26644	18.28101	0.0611706	0.18441917	3.0567882	21	—	—
452728 2006 AK_{40}	16.5	X	116.37901	215.79650	120.79093	11.20032	0.0438538	0.18560515	3.0437528	21	—	—
452729 2006 AR_{66}	16.9	X	285.68689	269.91814	150.13798	4.62987	0.1333022	0.16896090	3.2404991	21	9 4.4	21.1
452730 2006 AM_{85}	15.6	X	269.59163	213.80932	298.60383	16.02199	0.1801846	0.17754978	3.1351330	21	11 29.3	20.1
452731 2006 AP_{91}	16.0	X	223.27318	96.61295	119.46876	10.27899	0.0386135	0.18321856	3.0701275	21	—	—
452732 2006 AX_{105}	16.1	X	257.19327	358.46764	132.13879	17.89278	0.1560067	0.17479650	3.1679687	21	10 29.6	20.9
452733 2006 BF_{21}	16.2	X	48.13615	239.22940	133.69783	10.89021	0.1077764	0.18076291	3.0978698	21	—	—
452734 2006 BU_{25}	16.8	X	278.14910	51.87548	139.46515	0.33592	0.1786386	0.18409682	3.0603553	21	—	—
452735 2006 BG_{35}	17.8	X	351.52810	146.82972	116.83298	6.89799	0.0663501	0.27705186	2.3303903	21	5 22.9	20.3
452736 2006 BP_{44}	16.8	X	321.43190	342.63635	160.16228	8.76203	0.2185090	0.18285103	3.0742401	21	—	—
452737 2006 BS_{49}	18.2	X	229.55160	341.47618	79.78976	2.62682	0.1208136	0.28640218	2.2793893	21	7 2.8	21.4
452738 2006 BT_{63}	16.3	X	11.40765	260.23768	133.76950	8.67460	0.1915437	0.18040517	3.1019639	21	12 26.7	20.0
452739 2006 BC_{65}	16.4	X	308.28338	6.90056	129.60077	9.94103	0.0444473	0.18293278	3.0733241	21	—	—
452740 2006 BJ_{69}	16.6	X	281.95765	187.83744	338.67344	11.60417	0.0884416	0.18263643	3.0766478	21	—	—
452741 2006 BJ_{108}	16.2	X	255.43423	57.83813	126.05248	14.15395	0.1030632	0.18047182	3.1012001	21	—	—
452742 2006 BF_{111}	16.1	X	304.31279	31.82519	123.41989	10.52505	0.1018566	0.18437605	3.0572647	21	—	—
452743 2006 BA_{132}	17.9	X	343.72622	107.67752	142.38808	4.44221	0.1775515	0.26597609	2.3946442	21	4 5.2	20.2
452744 2006 BH_{146}	16.5	X	317.63789	341.69446	137.09548	6.53993	0.1499368	0.18254660	3.0776570	21	—	—
452745 2006 BL_{156}	16.9	X	265.24062	72.96531	125.46602	3.68536	0.1543921	0.18049132	3.1009767	21	—	—
452746 2006 BD_{160}	18.0	X	92.65183	23.58394	178.32829	3.17624	0.1105598	0.27992108	2.3144385	21	8 8.0	20.9
452747 2006 BA_{174}	16.5	X	7.90843	5.80829	83.51916	5.16865	0.0566357	0.18587569	3.0407986	21	—	—
452748 2006 BQ_{179}	16.6	X	289.17654	179.96541	329.40930	5.15990	0.1273927	0.18092744	3.0959914	21	—	—
452749 2006 BQ_{186}	18.7	X	201.87412	27.83598	109.76284	1.92036	0.1673973	0.28980300	2.2615219	21	9 11.9	22.1
452750 2006 BE_{192}	16.8	X	231.91421	18.91843	179.93203	2.45509	0.0349576	0.17883369	3.1201094	21	12 30.4	21.3
452751 2006 BA_{200}	16.1	X	242.59108	36.63260	161.69392	17.70323	0.1601360	0.17646411	3.1479787	21	12 25.7	20.9
452752 2006 BJ_{211}	16.9	X	283.16803	99.37068	78.84859	2.27786	0.1144282	0.18113280	3.0936510	21	—	—
452753 2006 BD_{221}	16.7	X	264.75347	88.98592	95.11543	2.27225	0.1216568	0.18154279	3.0889915	21	—	—
452754 2006 BV_{230}	18.5	X	140.66007	94.19826	81.77824	3.59635	0.1547675	0.28594601	2.2818128	21	9 3.6	21.9
452755 2006 BV_{246}	16.7	X	293.02837	14.84783	142.69072	6.14485	0.1512534	0.18173972	3.0867597	21	—	—
452756 2006 BB_{249}	16.7	X	282.31747	136.03027	39.06600	2.06226	0.1237243	0.18178759	3.0862177	21	—	—
452757 2006 BB_{256}	16.2	X	274.50844	15.26289	140.62514	13.58777	0.0932215	0.17783617	3.1317661	21	12 24.3	20.5
452758 2006 BT_{256}	16.3	X	313.86393	182.41615	339.37439	12.86556	0.1100229	0.18536406	3.0463913	21	—	—
452759 2006 BN_{260}	16.8	X	267.16592	96.25524	56.83870	2.00735	0.1333397	0.17597221	3.1538424	21	12 4.5	20.9
452760 2006 BQ_{264}	16.2	X	291.57116	335.12390	148.58243	11.33883	0.1851515	0.17642345	3.1484624	21	11 28.6	20.2
452761 2006 BW_{269}	15.7	X	276.67236	60.69684	126.83044	16.43491	0.2786449	0.17934993	3.1141193	21	—	—
452762 2006 BV_{283}	17.0	X	15.10870	181.73850	297.43030	3.26394	0.0689576	0.19161182	2.9798050	21	—	—
452763 2006 CB_{8}	16.5	X	308.59340	46.31431	164.00966	9.77584	0.1619374	0.18996216	2.9970316	21	1 6.1	20.9
452764 2006 CB_{21}	16.6	X	238.25794	51.50710	143.20921	13.27182	0.0962570	0.17951585	3.1122001	21	12 25.6	21.2
452765 2006 CR_{27}	16.4	X	74.22010	232.91454	134.76991	12.74014	0.0760915	0.18379433	3.0637122	21	—	—
452766 2006 CQ_{35}	16.2	X	300.88205	168.99347	319.80143	11.54445	0.0937946	0.18228713	3.0805769	21	12 29.5	20.2
452767 2006 CD_{37}	16.2	X	301.87152	168.60582	332.86521	11.65061	0.1393099	0.18165886	3.0876755	21	—	—
452768 2006 CC_{44}	16.0	X	231.38640	133.17389	75.68921	9.49796	0.2388064	0.16954641	3.2330343	21	12 15.2	21.0
452769 2006 CJ_{44}	16.1	X	225.66824	92.74606	120.65406	16.95028	0.2011589	0.18120441	3.0928359	21	12 22.3	20.9
452770 2006 CA_{47}	18.7	X	212.21132	87.67883	356.70736	3.77757	0.1564465	0.28625855	2.2801517	21	7 13.3	22.2
452771 2006 CS_{66}	16.8	X	325.65488	103.98224	303.32352	3.93296	0.1216296	0.17213848	3.2004969	21	10 18.5	20.7
452772 2006 DB_{12}	16.2	X	344.76261	281.22133	159.84345	18.11078	0.1638297	0.17987059	3.1081069	21	—	—
452773 2006 DM_{14}	17.0	X	67.63529	110.83012	316.82556	11.83857	0.5244149	0.19887339	2.9068209	21	3 10.9	20.3
452774 2006 DL_{17}	16.5	X	288.40205	52.81639	110.25775	6.04126	0.0966496	0.18130533	3.0916881	21	—	—
452775 2006 DW_{27}	16.3	X	243.79850	16.23956	167.24864	15.30662	0.0756431	0.17373802	3.1808228	21	12 20.4	21.1
452776 2006 DY_{39}	17.2	X	20.63246	272.75482	143.97961	13.96550	0.1952331	0.18362139	3.0656357	21	—	—
452777 2006 DT_{45}	17.0	X	13.37916	84.17602	4.72596	3.75335	0.1919480	0.18476031	3.0530243	21	—	—
452778 2006 DL_{79}	17.2	X	288.32561	276.82823	339.38688	11.12923	0.1935668	0.25627361	2.4547096	21	1 27.6	20.9
452779 2006 DB_{90}	16.3	X	244.62687	181.17844	81.73807	0.67304	0.2197268	0.18274467	3.0754327	21	1 4.2	21.6
452780 2006 DC_{94}	17.9	X	198.84971	284.80857	169.30555	3.91984	0.1297979	0.27971701	2.3155641	21	7 12.4	21.4
452781 2006 DY_{112}	18.0	X	247.38023	14.77139	34.96650	4.01071	0.1770518	0.28226296	2.3016191	21	7 1.4	21.3
452782 2006 DT_{140}	18.0	X	225.61472	310.68753	130.57444	4.34902	0.1412214	0.28448269	2.2896309	21	7 23.8	21.3
452783 2006 DE_{215}	18.8	X	168.23077	136.09823	9.59604	2.62393	0.1739675	0.28335649	2.2956937	21	8 20.5	22.4
452784 2006 EZ_{63}	16.4	X	319.39082	283.13610	205.31553	10.86979	0.1086335	0.17791886	3.1307957	21	—	—
452785 2006 EV_{64}	16.6	X	213.65503	345.40947	231.82059	3.51231	0.1190718	0.17146146	3.2089162	21	12 20.5	21.5
452786 2006 ED_{73}	16.5	X	2.41319	133.27389	10.71843	12.34973	0.1597687	0.18861851	3.0112479	21	1 1.4	20.3
452787 2006 FS_{17}	18.1	X	82.34957	54.96666	154.34260	2.33874	0.1693664	0.27391826	2.3481296	21	8 14.1	20.9
452788 2006 FX_{39}	18.0	X	184.79850	115.67792	32.01888	6.71904	0.1464521	0.28580209	2.2825788	21	9 11.1	21.5
452789 2006 FK_{50}	16.9	X	126.45485	47.10337	141.28410	22.11683	0.2197511	0.28033772	2.3121448	21	9 10.3	20.7
452790 2006 FL_{50}	15.7	X	270.46680	120.40260	77.96300	23.67936	0.1843383	0.17876938	3.1208577	21	—	—
452791 2006 GY_{24}	18.2	X	118.53985	326.10723	191.92734	8.05451	0.1519897	0.27357508	2.3500929	21	7 13.8	21.7
452792 2006 GV_{41}	15.3	X	285.14010	108.83819	62.41027	16.94326	0.1909314	0.17617351	3.1514396	21	—	—
452793 2006 GT_{47}	18.5	X	71.50626	24.84931	188.70038	0.91174	0.1323444	0.27275232	2.3548165	21	7 30.1	21.2
452794 2006 HF_{21}	18.0	X	142.01829	56.01450	91.91792	3.47144	0.1620685	0.27595249	2.3365756	21	7 28.2	21.4
452795 2006 HW_{23}	17.5	X	100.93752	332.93512	201.93808	5.61483	0.0747462	0.27043253	2.3682639	21	7 5.8	20.5
452796 2006 HO_{30}	15.8	X	321.31044	63.83406	119.72970	8.50004	0.3316686	0.18440297	3.0569672	21	—	—
452797 2006 HC_{56}	16.9	X	65.61143	144.59147	72.36694	7.81095	0.1263652	0.27120133	2.3637861	21	7 27.2	19.7
452798 2006 HU_{111}	17.3	X	8.50685	165.88596	99.22890	7.88163	0.1561079	0.26728518	2.3868189	21	6 24.7	19.3
452799 2006 HP_{113}	16.1	X	11.56787	22.11253	83.18507	18.14978	0.1794310	0.17792441	3.1307305	21	—	—
452800 2006 JR_{5}	17.7	X	294.32335	50.31707	232.14041	1.92700	0.1604245	0.25583914	2.4574879	21	3 8.9	20.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
452801 2006 JR_{53}	17.7	X	132.39677	99.33200	68.19402	5.48518	0.1620965	0.27420495	2.3464926	21	8 15.3	21.3
452802 2006 JE_{56}	16.1	X	302.32563	95.01168	102.36277	17.75419	0.2242125	0.18147132	3.0898025	21	—	—
452803 2006 KE_{15}	17.1	X	342.89332	103.27999	116.18329	7.11458	0.1125338	0.25472328	2.4646597	21	3 2.5	19.9
452804 2006 KY_{25}	16.3	X	282.54759	93.86904	93.79726	17.47114	0.1178719	0.17621928	3.1508939	21	—	—
452805 2006 KQ_{54}	17.4	X	320.62311	195.20539	77.13028	7.87804	0.1972196	0.25754269	2.4466390	21	3 29.9	20.3
452806 2006 KE_{66}	17.6	X	358.03724	175.65253	81.64186	4.51522	0.1188881	0.26466669	2.4025358	21	5 21.2	19.8
452807 2006 KV_{89}	21.3	X	140.47767	87.77181	71.71311	3.55393	0.2727297	0.79935245	1.1498570	21	9 14.4	21.0
452808 2006 KL_{94}	17.4	X	216.38828	245.68441	77.40463	16.79324	0.2066059	0.24532667	2.5271996	21	2 18.9	22.0
452809 2006 KC_{119}	17.6	X	302.98485	80.94627	105.09742	25.71540	0.0666623	0.36546956	1.9374711	21	—	—
452810 2006 LE_{4}	16.0	X	263.89900	267.72757	17.66376	12.49116	0.2431951	0.24480967	2.5307563	21	2 9.8	20.4
452811 2006 PO_{4}	17.1	X	206.05961	223.48004	105.72280	7.00289	0.2555810	0.23640253	2.5904068	21	2 15.0	21.7
452812 2006 PD_{19}	16.6	X	138.71544	258.06195	322.89259	22.13511	0.2152478	0.27606371	2.3359480	21	10 15.6	21.0
452813 2006 PA_{20}	16.8	X	136.70686	256.33062	113.53429	16.68528	0.3598591	0.22560287	2.6724298	21	2 20.8	21.4
452814 2006 PE_{23}	15.7	X	285.33410	335.97973	42.01857	3.60831	0.3690516	0.12404040	3.9819329	21	6 9.1	21.5
452815 2006 PJ_{26}	17.2	X	195.92868	180.22329	149.05441	15.16898	0.2623014	0.23452315	2.6042274	21	2 6.0	21.8
452816 2006 PM_{27}	16.0	X	209.44199	282.96519	49.33894	17.51285	0.1767936	0.23927215	2.5696538	21	2 28.1	20.6
452817 2006 QB_{28}	16.6	X	178.77797	317.36430	353.82879	13.54428	0.2575744	0.22906012	2.6454713	21	1 7.4	21.3
452818 2006 QU_{29}	16.5	X	145.95104	24.85954	348.94131	13.74759	0.2549365	0.22915918	2.6447089	21	2 22.7	20.8
452819 2006 QN_{115}	16.9	X	175.92530	161.21738	168.44833	20.42282	0.2881543	0.23061912	2.6335355	21	1 23.7	21.8
452820 2006 QA_{125}	16.0	X	312.57336	359.97551	345.29958	2.07493	0.3015099	0.12570717	3.9466566	21	6 13.2	21.0
452821 2006 QA_{141}	17.2	X	141.12415	100.04016	305.65944	2.58588	0.2005098	0.23439912	2.6051460	21	3 19.7	21.2
452822 2006 QR_{158}	17.0	X	194.42365	180.61105	166.70020	12.06590	0.1651289	0.23531183	2.5984052	21	2 23.2	21.3
452823 2006 QH_{168}	16.7	X	117.34577	31.29815	2.04471	12.42088	0.1798305	0.22726922	2.6593508	21	2 10.9	20.5
452824 2006 QM_{169}	17.0	X	177.01946	79.86986	255.55499	6.12340	0.1944257	0.23097212	2.6308515	21	1 26.1	21.3
452825 2006 QE_{186}	16.4	X	154.43642	95.76147	282.55011	10.00168	0.2071978	0.23019300	2.6367845	21	2 24.5	20.8
452826 2006 RF_{4}	17.2	X	164.95487	171.58292	183.08455	4.15985	0.2749994	0.23010690	2.6374422	21	2 13.6	21.8
452827 2006 RF_{28}	17.0	X	189.59782	82.96865	272.35526	2.78161	0.2732219	0.23358367	2.6112055	21	3 3.4	21.7
452828 2006 RH_{44}	16.9	X	183.95987	166.67937	168.49738	3.09425	0.2174590	0.22969845	2.6405679	21	2 2.9	21.4
452829 2006 RD_{54}	17.5	X	86.86907	292.04720	164.82916	3.50395	0.1365750	0.22820908	2.6520443	21	3 13.4	20.7
452830 2006 RR_{58}	17.4	X	135.55145	128.12850	179.20789	9.20237	0.1928505	0.21719431	2.7409667	21	—	—
452831 2006 RH_{62}	16.9	X	139.42404	23.29671	7.56699	14.13486	0.1676214	0.23024645	2.6363764	21	3 2.3	20.9
452832 2006 RO_{77}	17.4	X	227.17964	260.18077	49.93392	2.76949	0.1483419	0.23430122	2.6058716	21	2 9.8	21.5
452833 2006 RA_{79}	17.2	X	201.29111	285.79591	28.13946	2.14225	0.2353179	0.23138813	2.6276973	21	1 24.2	21.8
452834 2006 RA_{82}	17.4	X	154.24899	212.00084	169.06923	4.78473	0.1700382	0.23094000	2.6310955	21	2 28.6	21.4
452835 2006 RS_{91}	17.4	X	138.58055	176.80067	188.36328	9.45066	0.1578736	0.22469802	2.6795995	21	1 22.1	21.5
452836 2006 RT_{99}	16.6	X	145.83207	285.86532	93.55733	17.49154	0.2331542	0.23021177	2.6366412	21	3 3.5	21.1
452837 2006 RW_{100}	16.8	X	271.74176	239.52556	47.07132	8.79246	0.2019503	0.24156468	2.5533701	21	2 20.7	20.9
452838 2006 SN_{16}	17.3	X	129.05268	72.48175	279.71873	2.44266	0.2280457	0.22190894	2.7020052	21	1 7.3	21.0
452839 2006 SZ_{22}	16.7	X	128.75993	4.96563	30.12264	13.97747	0.2893022	0.22759952	2.6567773	21	3 12.1	21.0
452840 2006 SZ_{27}	17.4	X	144.28196	140.79027	238.96918	4.43838	0.1649456	0.23216710	2.6218163	21	2 14.7	21.5
452841 2006 SU_{53}	16.5	X	169.92478	138.93186	227.00681	14.49883	0.1505453	0.23295251	2.6159200	21	2 18.0	20.9
452842 2006 SC_{60}	16.9	X	140.05935	205.57297	161.92571	14.50133	0.2190620	0.22558975	2.6725334	21	2 2.9	21.1
452843 2006 SU_{63}	17.0	X	127.45385	209.17863	174.61284	12.64524	0.3084675	0.22431409	2.6826562	21	2 20.2	21.3
452844 2006 SB_{66}	17.5	X	109.31925	62.95597	353.78556	12.36419	0.2708927	0.22708520	2.6607873	21	3 11.5	21.2
452845 2006 SA_{69}	17.9	X	87.47359	239.27965	171.49844	2.53440	0.2080818	0.22226378	2.6991287	21	1 23.4	21.0
452846 2006 SE_{79}	16.6	X	171.33292	50.23741	302.83639	13.44226	0.1883583	0.23023440	2.6364684	21	2 9.9	20.9
452847 2006 SN_{79}	16.8	X	153.08919	138.79867	238.06026	11.24816	0.3079408	0.22944588	2.6425054	21	2 28.9	21.6
452848 2006 SE_{116}	16.2	X	144.36358	326.30139	53.39660	18.26216	0.2157493	0.22794370	2.6541023	21	3 4.5	20.7
452849 2006 SG_{140}	14.6	X	318.44741	278.54153	66.98178	16.08956	0.3146143	0.12404814	3.9817672	21	6 20.1	19.4
452850 2006 ST_{140}	16.6	X	165.29644	317.64749	30.77732	12.44430	0.1936877	0.22617246	2.6679411	21	2 7.6	21.1
452851 2006 SV_{142}	17.2	X	336.70642	40.04696	177.93343	4.85528	0.0951593	0.23575058	2.5951803	21	2 21.8	20.4
452852 2006 SE_{149}	17.6	X	169.27810	134.25013	255.32335	2.01592	0.2298582	0.23334572	2.6129804	21	3 27.3	21.9
452853 2006 SE_{160}	17.8	X	166.46895	146.02257	176.07900	3.97311	0.2589659	0.22409131	2.6844338	21	1 8.2	22.3
452854 2006 SP_{173}	17.2	X	187.47286	66.87612	269.64388	4.75926	0.1759801	0.23080589	2.6321146	21	2 4.7	21.6
452855 2006 SJ_{202}	17.3	X	131.13808	224.73775	195.66267	8.40792	0.1175658	0.23243976	2.6197656	21	3 18.5	20.9
452856 2006 SS_{204}	17.5	X	82.60023	187.60021	182.02823	2.69470	0.0942658	0.21573958	2.7532744	21	—	—
452857 2006 SP_{213}	17.5	X	174.43884	156.52404	214.21406	1.53313	0.1692105	0.23387264	2.6090542	21	3 6.3	21.8
452858 2006 SX_{213}	16.7	X	224.37053	77.83287	227.01353	10.93871	0.1941397	0.23461380	2.6035565	21	1 26.7	21.3
452859 2006 SW_{240}	17.2	X	154.49275	174.26242	178.13796	10.52091	0.0480734	0.22586334	2.6703748	21	1 11.5	21.1
452860 2006 SX_{255}	16.7	X	174.50243	121.07386	222.21098	5.25026	0.1554012	0.22805537	2.6532358	21	1 31.0	20.9
452861 2006 SP_{256}	17.2	X	187.86781	56.71768	268.42486	2.00053	0.0897958	0.22677249	2.6632328	21	1 19.9	21.1
452862 2006 SU_{276}	17.2	X	121.01084	268.19948	55.67476	2.20487	0.0733266	0.21632811	2.7482785	21	—	—
452863 2006 SQ_{279}	16.4	X	265.49600	359.40819	232.58512	11.19680	0.0260486	0.22157949	2.7046828	21	—	—
452864 2006 SN_{285}	17.5	X	185.40217	349.27509	348.96639	0.66195	0.1441126	0.22995016	2.6386406	21	2 5.1	21.4
452865 2006 SB_{292}	16.5	X	171.13900	219.78106	135.47573	18.45732	0.2147267	0.23030887	2.6359001	21	2 17.4	20.8
452866 2006 SH_{301}	17.4	X	143.58698	215.12790	167.48077	2.21110	0.1115903	0.22697100	2.6616798	21	2 13.9	21.3
452867 2006 SY_{302}	16.9	X	158.67678	165.83966	195.10531	12.27750	0.1147469	0.22902905	2.6457106	21	1 31.8	21.1
452868 2006 SG_{310}	17.0	X	227.24085	357.43913	306.41195	2.24968	0.2777629	0.23437832	2.6053001	21	1 30.1	21.7
452869 2006 SB_{312}	17.1	X	169.97510	85.01134	274.46541	2.74435	0.1756983	0.23013760	2.6372077	21	2 17.0	21.2
452870 2006 SO_{313}	17.6	X	176.97363	188.37125	153.90161	2.59604	0.2464094	0.22933635	2.6433466	21	2 7.5	22.0
452871 2006 SZ_{319}	17.6	X	225.31312	235.03888	64.03264	5.12270	0.2019594	0.23147917	2.6270083	21	1 25.7	22.1
452872 2006 SF_{331}	17.4	X	205.31562	334.08189	355.23673	2.83224	0.1382869	0.23258615	2.6186662	21	2 12.7	21.6
452873 2006 SW_{373}	17.2	X	146.89906	219.37271	140.19081	5.24249	0.1241381	0.22584634	2.6705088	21	1 21.8	21.1
452874 2006 SX_{389}	16.9	X	135.01581	321.06077	81.06737	15.00876	0.2630203	0.22685074	2.6626203	21	3 25.9	21.4
452875 2006 SE_{399}	17.1	X	118.97622	103.53136	198.70455	19.77796	0.1442264	0.21181509	2.7871785	21	—	—
452876 2006 SZ_{402}	16.8	X	20.93934	309.76580	215.71630	12.37896	0.1990499	0.22387246	2.6861830	21	2 14.7	19.7
452877 2006 SC_{408}	17.5	X	161.46755	123.12192	212.78870	13.51353	0.1922016	0.22298751	2.6932853	21	1 12.7	22.0
452878 2006 TS_{5}	16.8	X	190.05502	339.41137	19.69029	12.69229	0.1978809	0.23139104	2.6276753	21	3 11.9	21.3
452879 2006 TQ_{31}	17.0	X	175.17180	104.81501	202.27604	2.36969	0.0469383	0.21839367	2.7309224	21	—	—
452880 2006 TC_{34}	17.2	X	165.40140	251.33896	111.79133	4.24769	0.1935042	0.22934754	2.6432607	21	2 20.8	21.4

Planet		H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
		m		°	°	°	°		°				
452881	2006 TO_{48}	17.4	X	175.74920	289.30224	49.40266	5.24461	0.1393311	0.22465117	2.6799720	21	1 29.6	21.6
452882	2006 TM_{53}	16.7	X	134.85884	243.28629	216.75301	16.13778	0.1234291	0.23457019	2.6038792	21	5 15.4	20.6
452883	2006 TA_{73}	16.9	X	134.20695	73.13960	297.81727	3.81049	0.2147433	0.22339446	2.6900135	21	2 2.2	20.9
452884	2006 TB_{89}	16.8	X	36.71650	215.98946	234.51464	8.08141	0.1314297	0.21555649	2.7548333	21	—	—
452885	2006 TA_{119}	17.0	X	224.21391	223.47664	80.86970	12.85358	0.2332432	0.23097566	2.6308246	21	1 31.9	21.7
452886	2006 TK_{123}	17.4	X	91.77482	335.26462	52.64283	6.15382	0.1350652	0.21675952	2.7446308	21	—	—
452887	2006 UG_{3}	17.1	X	101.36889	149.80725	227.70515	15.23497	0.2719943	0.21651559	2.7466918	21	1 9.4	20.8
452888	2006 UR_{27}	17.4	X	120.65611	248.85045	210.94975	5.85704	0.2569934	0.23168168	2.6254772	21	5 14.4	21.5
452889	2006 UW_{41}	16.8	X	0.88506	183.58121	50.34863	6.70403	0.0743569	0.23682634	2.5873155	21	4 26.9	19.6
452890	2006 UY_{43}	17.4	X	108.16414	30.46942	38.54866	4.44780	0.0519167	0.22601188	2.6692047	21	2 23.8	21.0
452891	2006 US_{61}	16.4	X	145.57954	153.79264	239.26453	12.84953	0.2580132	0.22679310	2.6630715	21	3 10.1	21.0
452892	2006 UB_{84}	17.2	X	143.44469	339.94404	42.78693	4.02391	0.1278354	0.22451697	2.6810398	21	2 18.3	21.1
452893	2006 US_{85}	17.0	X	183.42063	37.48077	286.37866	2.87952	0.1840136	0.22478876	2.6788783	21	1 19.7	21.3
452894	2006 UU_{102}	17.6	X	187.08982	249.00022	107.85939	4.14203	0.0989735	0.22975329	2.6401477	21	2 28.6	21.5
452895	2006 UD_{109}	16.8	X	212.42194	264.16543	58.03716	15.11300	0.1418318	0.22802157	2.6534980	21	2 17.2	21.3
452896	2006 UL_{155}	17.4	X	152.85941	290.42919	85.90346	3.16772	0.1983582	0.22856899	2.6492596	21	2 26.0	21.5
452897	2006 UZ_{187}	16.9	X	194.25244	80.32605	241.83703	11.29104	0.2908577	0.23059591	2.6337122	21	1 26.0	21.8
452898	2006 UW_{190}	16.5	X	127.86272	141.04127	263.07591	10.46695	0.1600207	0.22698417	2.6615768	21	2 24.1	20.6
452899	2006 UE_{194}	17.6	X	76.46361	73.45224	25.58514	1.61572	0.1240524	0.22496494	2.6774795	21	2 27.7	20.6
452900	2006 UF_{213}	16.7	X	203.00434	80.37994	241.46815	12.57418	0.1474969	0.22532555	2.6746220	21	1 28.8	21.2
452901	2006 UE_{221}	17.5	X	167.73475	99.70244	287.34391	2.61736	0.2134423	0.23317717	2.6142395	21	3 21.8	21.8
452902	2006 UL_{227}	17.4	X	135.29306	282.45515	98.07115	4.63155	0.2139385	0.22540069	2.6740276	21	2 16.3	21.4
452903	2006 UE_{259}	17.5	X	174.60600	127.00664	215.64318	5.56044	0.0716560	0.22573466	2.6713895	21	1 24.7	21.5
452904	2006 UB_{281}	18.1	X	77.34465	224.46509	198.78467	3.16739	0.1876884	0.21810677	2.7333167	21	1 21.0	21.1
452905	2006 UE_{335}	17.0	X	119.89718	276.32162	40.09203	4.07502	0.0902835	0.20986161	2.8044480	21	—	—
452906	2006 VK_{17}	17.1	X	85.11069	250.50233	241.16590	7.73825	0.0419178	0.23193245	2.6235844	21	4 9.3	20.5
452907	2006 VA_{18}	17.5	X	107.97615	115.14243	256.93239	2.61297	0.0935261	0.21595178	2.7514705	21	—	—
452908	2006 VV_{33}	17.5	X	80.24162	32.21288	55.25310	6.99101	0.1203997	0.22222980	2.6994038	21	2 21.1	20.8
452909	2006 VW_{34}	16.7	X	94.75148	3.22919	50.59895	18.89652	0.2066057	0.22017266	2.7161920	21	2 17.9	20.6
452910	2006 VJ_{37}	16.8	X	135.48681	137.92117	253.99485	12.26897	0.2662039	0.22541247	2.6739344	21	2 28.2	21.3
452911	2006 VN_{56}	17.2	X	179.40948	160.95860	193.85443	1.17237	0.2484058	0.22785264	2.6548094	21	2 24.1	21.9
452912	2006 VB_{58}	17.3	X	144.54678	146.85221	208.80732	4.66938	0.1260581	0.21934195	2.7230456	21	1 15.2	21.4
452913	2006 VQ_{65}	17.5	X	155.81346	131.04115	220.83074	1.39663	0.1112468	0.22022481	2.7157632	21	1 21.6	21.5
452914	2006 VG_{72}	17.5	X	84.87509	9.22584	67.74013	2.84379	0.0711092	0.22042162	2.7141463	21	2 5.3	20.8
452915	2006 VS_{76}	17.9	X	112.12671	322.91669	97.90463	3.49500	0.0971783	0.22390374	2.6859329	21	2 24.7	21.5
452916	2006 VM_{83}	16.7	X	78.44417	314.71737	39.65169	6.91579	0.1817120	0.20893633	2.8127216	21	—	—
452917	2006 VO_{115}	17.7	X	175.41778	123.81843	228.52138	5.37162	0.0692641	0.22430860	2.6826999	21	2 6.1	21.6
452918	2006 VH_{118}	16.9	X	350.41552	200.65255	267.39600	2.59120	0.0526170	0.20862460	2.8155227	21	—	—
452919	2006 VF_{136}	17.1	X	73.05447	339.48215	54.64806	5.07478	0.0745447	0.21123855	2.7922476	21	—	—
452920	2006 VA_{145}	16.0	X	161.43609	75.06272	270.74733	9.13910	0.1945867	0.22284667	2.6944199	21	1 25.5	20.4
452921	2006 VG_{148}	16.4	X	40.53218	68.60075	81.46259	9.42640	0.2815091	0.21621118	2.7492693	21	3 30.5	18.7
452922	2006 VM_{148}	17.3	X	82.64886	352.11405	85.54575	9.18475	0.2905177	0.21629280	2.7485777	21	3 13.1	20.7
452923	2006 VU_{148}	16.2	X	8.97576	346.89329	101.99259	10.68368	0.1289023	0.20938590	2.8086940	21	—	—
452924	2006 VJ_{173}	16.9	X	141.95667	263.75650	77.08700	8.08475	0.1510629	0.21459138	2.7630868	21	—	—
452925	2006 WK_{39}	17.7	X	27.93732	326.64568	139.87659	2.19040	0.1900857	0.21283801	2.7782411	21	—	—
452926	2006 WD_{47}	17.5	X	117.94541	141.21798	282.13560	2.86508	0.2374461	0.22423698	2.6832711	21	3 23.1	21.5
452927	2006 WX_{57}	17.1	X	58.81828	108.82310	309.99110	4.06510	0.0459080	0.21332666	2.7739968	21	—	—
452928	2006 WQ_{73}	17.3	X	81.34388	160.59707	243.87497	2.91315	0.1025431	0.21544543	2.7557799	21	—	—
452929	2006 WK_{83}	17.0	X	110.86259	34.90919	66.33845	13.29394	0.2090069	0.22818777	2.6522094	21	5 3.3	20.9
452930	2006 WB_{87}	16.2	X	62.22426	57.02120	74.07688	13.97453	0.2575133	0.21991643	2.7183013	21	4 17.1	19.3
452931	2006 WM_{89}	16.9	X	168.45541	272.63597	58.95406	9.19358	0.0532744	0.21497743	2.7597780	21	1 6.9	20.9
452932	2006 WM_{102}	17.8	X	85.13944	178.08397	251.24998	2.56576	0.1832041	0.21874133	2.7280279	21	2 9.8	21.0
452933	2006 WG_{103}	17.5	X	351.84271	82.64567	67.73807	4.54601	0.1427385	0.21322738	2.7748578	21	—	—
452934	2006 WM_{115}	17.0	X	135.16059	178.20775	197.87682	6.29784	0.2285140	0.22248479	2.6973409	21	2 9.5	21.2
452935	2006 WQ_{138}	17.3	X	118.74563	314.80803	108.90023	6.58403	0.2419826	0.22608071	2.6686629	21	3 29.6	21.3
452936	2006 WY_{143}	16.9	X	119.60369	81.27356	238.67659	18.91196	0.2364579	0.20943768	2.8082310	21	—	—
452937	2006 WN_{178}	17.0	X	57.32107	250.59188	208.36304	6.89969	0.0866130	0.21827199	2.7319372	21	1 23.4	20.4
452938	2006 WB_{195}	16.6	X	117.11479	13.37318	76.21085	13.72405	0.1287636	0.22794115	2.6541221	21	4 18.1	20.5
452939	2006 XH_{6}	16.6	X	140.11601	263.16034	125.42021	8.24641	0.3674021	0.22524525	2.6752577	21	3 17.4	21.3
452940	2006 XQ_{10}	16.8	X	59.15818	211.78594	293.25403	6.99499	0.2637766	0.22014790	2.7163956	21	4 21.5	19.7
452941	2006 XT_{11}	16.3	X	154.04929	95.96917	265.78009	11.59785	0.2437679	0.22211249	2.7003541	21	2 8.4	20.9
452942	2006 XU_{24}	17.5	X	122.20349	210.20149	230.68909	7.45827	0.2672929	0.22723427	2.6596235	21	4 21.9	21.7
452943	2006 XA_{30}	16.6	X	78.73883	12.43539	100.65811	13.79140	0.1460846	0.22042620	2.7141087	21	4 2.4	20.2
452944	2006 XY_{33}	16.5	X	86.98582	139.23654	297.29367	8.51741	0.0708578	0.21726319	2.7403873	21	2 5.8	19.9
452945	2006 XF_{40}	17.4	X	33.65588	271.61397	247.10978	6.44736	0.1781294	0.22223905	2.6993288	21	3 6.9	20.2
452946	2006 XU_{45}	17.2	X	129.27864	128.99086	278.61273	9.26983	0.2595246	0.22457931	2.6805437	21	3 13.9	21.6
452947	2006 XG_{47}	16.7	X	119.38566	318.73776	94.26474	13.97463	0.1998616	0.22191403	2.7019639	21	3 15.7	20.9
452948	2006 XZ_{48}	16.9	X	111.69964	302.42734	118.47166	8.45298	0.3331516	0.22055664	2.7130385	21	3 30.9	21.1
452949	2006 XM_{54}	16.8	X	54.40396	230.57918	287.57279	9.07855	0.3109298	0.22081293	2.7109388	21	5 11.2	19.6
452950	2006 XX_{72}	17.2	X	339.34894	99.85092	89.45907	4.59605	0.1240224	0.21806121	2.7336974	21	1 20.2	20.5
452951	2006 XG_{73}	16.8	X	355.92500	107.13583	72.15604	11.49490	0.0659021	0.21816806	2.7328047	21	2 11.2	20.4
452952	2007 AC	16.6	X	58.56559	73.66164	66.41003	22.96439	0.0352169	0.22587748	2.6702634	21	3 31.6	20.6
452953	2007 AY	16.5	X	130.77688	103.41303	294.46086	12.10687	0.2135941	0.21833632	2.7314006	21	2 27.1	20.8
452954	2007 AZ_{6}	16.2	X	358.73196	77.89237	107.13094	25.71295	0.0906152	0.21630087	2.7485092	21	2 21.6	19.9
452955	2007 AZ_{16}	16.5	X	118.41501	339.58984	113.95906	14.91268	0.1036828	0.22338011	2.6901286	21	4 22.7	20.6
452956	2007 AP_{17}	16.5	X	90.91451	358.56039	128.87133	14.73505	0.1937052	0.22232073	2.6986677	21	5 14.1	20.4
452957	2007 BN_{6}	16.4	X	34.89719	192.18080	324.80646	13.75697	0.1874915	0.21628170	2.7486717	21	3 8.1	19.1
452958	2007 BJ_{33}	16.9	X	348.35745	340.16131	121.81981	12.03551	0.0500055	0.19927440	2.9029198	21	—	—
452959	2007 BD_{44}	16.8	X	85.03886	158.05711	321.40844	9.17519	0.1874535	0.21845774	2.7303883	21	4 14.3	20.5
452960	2007 BO_{76}	16.8	X	358.23765	345.00940	86.41190	3.18963	0.1102849	0.19714801	2.9237559	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
452961 2007 CN_6	17.3	X	78.51924	101.78265	314.88106	6.07658	0.2316292	0.21203651	2.7852378	21	1 23.9	20.3
452962 2007 CR_{43}	16.6	X	215.83109	54.64177	152.88975	9.14658	0.0646400	0.18919490	3.0051289	21	12 21.0	21.1
452963 2007 CR_{60}	16.4	X	42.97298	64.75445	110.59032	9.82470	0.2568095	0.21597375	2.7512839	21	5 10.1	19.1
452964 2007 CT_{62}	16.5	X	112.65045	203.45697	278.30765	12.76335	0.2044230	0.22510207	2.6763920	21	5 27.5	20.6
452965 2007 CB_{72}	17.0	X	210.74903	213.81447	46.34628	1.67649	0.1641828	0.19609958	2.9341677	21	—	—
452966 2007 DB_{25}	17.0	X	226.25167	50.35820	168.36749	5.78841	0.0623355	0.19086919	2.9875292	21	—	—
452967 2007 DM_{28}	14.2	X	40.35769	199.88014	9.84256	4.76146	0.1585814	0.08260156	5.2216837	21	6 12.1	20.6
452968 2007 DA_{47}	16.7	X	46.54076	152.76884	345.85922	12.41223	0.2558070	0.21295898	2.7771889	21	3 17.0	19.0
452969 2007 DJ_{47}	16.6	X	354.12222	84.56371	154.15480	22.96918	0.2179250	0.28467549	2.2885970	21	4 2.2	18.7
452970 2007 DU_{71}	16.5	X	223.61067	193.21639	1.15159	9.59606	0.0346664	0.18491243	3.0513497	21	12 16.1	21.0
452971 2007 DG_{89}	17.0	X	83.01604	108.75095	353.77871	7.41088	0.2377599	0.21514079	2.7583808	21	3 31.6	20.4
452972 2007 DF_{116}	17.1	X	35.74259	54.81624	109.14594	10.29826	0.2637797	0.21282956	2.7783146	21	4 7.6	19.6
452973 2007 EW_{14}	17.4	X	330.25857	352.67743	162.94831	1.95415	0.1720790	0.20046552	2.8914094	21	—	—
452974 2007 EH_{15}	16.2	X	89.53245	163.32195	157.79848	9.69538	0.1361121	0.18471556	3.0535173	21	12 26.9	21.0
452975 2007 EG_{64}	18.3	X	177.07223	246.33701	294.77629	1.54743	0.0346827	0.31380748	2.1446702	21	10 23.9	20.6
452976 2007 ES_{131}	15.8	X	329.55539	225.05303	174.84135	9.28448	0.0729874	0.17506390	3.1647421	21	10 21.7	19.9
452977 2007 EW_{152}	16.2	X	78.19652	338.21192	13.04324	14.58122	0.1561686	0.18598159	3.0396441	21	—	—
452978 2007 ED_{175}	16.5	X	132.04063	71.22614	199.96717	10.85721	0.1391915	0.17522014	3.1628605	21	12 8.1	21.7
452979 2007 EF_{175}	16.7	X	305.19026	288.41789	199.36419	8.52376	0.0289131	0.18448724	3.0560362	21	—	—
452980 2007 EM_{175}	16.6	X	203.97788	4.57090	198.22432	7.81163	0.0774280	0.17869007	3.1217810	21	11 29.8	21.3
452981 2007 EW_{220}	16.9	X	266.22306	4.09943	185.04174	9.09506	0.0664528	0.18823390	3.0153483	21	—	—
452982 2007 ES_{223}	16.9	X	20.19734	338.30335	190.47818	13.78423	0.1621892	0.21033718	2.8002191	21	2 25.4	19.9
452983 2007 FY_{10}	16.7	X	296.57452	300.56643	238.48482	4.88381	0.1438891	0.19136064	2.9824120	21	—	—
452984 2007 FQ_{19}	16.8	X	335.88288	289.64337	181.76358	10.55030	0.0598465	0.19062881	2.9900402	21	—	—
452985 2007 FZ_{31}	16.9	X	222.33202	318.42418	273.82167	1.44928	0.1824792	0.18529852	3.0471096	21	—	—
452986 2007 FH_{50}	16.5	X	280.36970	135.15349	60.55656	15.31142	0.1626892	0.19072800	2.9890034	21	—	—
452987 2007 GE_1	18.3	X	154.77575	122.05897	59.50200	3.62865	0.0772159	0.30741367	2.1743057	21	9 26.5	21.1
452988 2007 GQ_{17}	16.5	X	261.33892	339.68755	226.47843	11.25037	0.0682017	0.18757164	3.0224417	21	—	—
452989 2007 GE_{18}	16.4	X	194.98766	351.97106	240.57218	6.75457	0.1234472	0.17903016	3.1178264	21	12 20.6	21.3
452990 2007 GF_{40}	16.9	X	257.14810	151.17267	49.01256	7.37949	0.1156790	0.18545601	3.0453844	21	—	—
452991 2007 GE_{51}	16.2	X	136.23710	44.34295	224.97815	9.50158	0.1011345	0.17183303	3.2042886	21	12 7.7	21.2
452992 2007 GK_{65}	18.1	X	339.04314	32.68219	252.80052	2.34605	0.2295403	0.28230661	2.3013818	21	5 8.7	19.7
452993 2007 GJ_{73}	17.8	X	52.24135	146.96578	85.62776	7.77928	0.1285913	0.29060551	2.2573565	21	7 30.1	20.1
452994 2007 GS_{73}	15.1	X	210.70899	156.15996	76.45077	19.44424	0.1762292	0.18204165	3.0833456	21	12 30.8	20.1
452995 2007 HZ_{11}	15.9	X	10.47821	345.34316	49.22235	10.19896	0.0703478	0.17487495	3.1670212	21	12 9.2	20.2
452996 2007 HD_{60}	16.0	X	275.10370	140.54267	42.06374	18.00571	0.0896173	0.18627019	3.0365037	21	—	—
452997 2007 HD_{61}	17.8	X	166.74366	7.74188	129.67047	4.76731	0.0622701	0.29474266	2.2361832	21	8 6.9	20.5
452998 2007 HN_{68}	16.7	X	286.51948	130.64023	40.43094	11.32963	0.1252703	0.18887394	3.0085323	21	—	—
452999 2007 HG_{88}	16.5	X	62.64658	158.04942	216.92644	8.32302	0.0525809	0.18182433	3.0858020	21	—	—
453000 2007 HW_{94}	16.7	X	230.37028	137.22626	61.89005	8.30188	0.1558542	0.17930977	3.1145842	21	12 13.5	21.3
453001 2007 HW_{95}	16.8	X	227.18557	137.04760	67.13653	6.51771	0.2041893	0.17952783	3.1120617	21	12 11.0	21.7
453002 2007 JE_1	16.4	X	165.91868	71.64199	210.94222	9.43616	0.0193915	0.18387879	3.0627740	21	—	—
453003 2007 JC_{27}	16.5	X	232.01926	92.00987	84.36332	11.77954	0.0564034	0.17324287	3.1868807	21	12 1.2	21.2
453004 2007 JF_{31}	17.7	X	13.48647	194.85732	90.64862	6.81871	0.1836054	0.28818942	2.2699556	21	8 17.9	19.4
453005 2007 JO_{35}	16.2	X	196.14131	16.46262	244.50315	10.95611	0.0921703	0.18165686	3.0876982	21	—	—
453006 2007 JB_{38}	16.7	X	269.76689	112.23074	100.56848	2.70346	0.1385052	0.18978442	2.9989025	21	—	—
453007 2007 JB_{41}	18.1	X	36.51686	69.92899	184.91491	8.02775	0.1961110	0.28784494	2.2717663	21	8 13.6	20.3
453008 2007 LX_5	16.6	X	104.44880	179.02039	137.66874	16.69552	0.0856465	0.17245085	3.1966309	21	12 30.6	21.6
453009 2007 LS_9	17.6	X	266.30369	176.13894	141.99076	2.83402	0.2282221	0.27081124	2.3660555	21	3 17.6	21.1
453010 2007 LE_{12}	15.5	X	123.31188	263.35010	67.62038	26.99711	0.1996565	0.17669841	3.1451953	21	—	—
453011 2007 LD_{32}	16.0	X	206.07277	159.59221	63.16895	12.98658	0.1586788	0.17703032	3.1412629	21	12 15.9	21.0
453012 2007 PG_{24}	18.1	X	285.08498	104.79943	190.46598	5.33546	0.3078157	0.26555975	2.3971463	21	2 25.2	21.9
453013 2007 QN_5	17.3	X	248.65144	204.24454	163.11778	5.41613	0.2444705	0.26579691	2.3957202	21	5 2.9	21.2
453014 2007 QC_{13}	17.6	X	259.08442	194.68384	130.20513	2.91445	0.2254832	0.26208486	2.4182884	21	3 20.9	21.4
453015 2007 QF_{13}	18.2	X	219.21363	356.19421	352.04448	2.12647	0.2028956	0.25740799	2.4474925	21	3 16.1	22.4
453016 2007 QM_{16}	17.0	X	228.85748	291.96573	98.82663	4.04189	0.1879034	0.26605351	2.3941796	21	5 18.0	20.7
453017 2007 QU_{16}	17.3	X	258.07441	301.36198	59.18131	3.32512	0.2194167	0.26766724	2.3845471	21	5 3.6	21.0
453018 2007 RZ_2	17.6	X	254.45745	103.07375	252.05712	0.61615	0.2037309	0.26687033	2.3892918	21	4 23.9	21.3
453019 2007 RX_{13}	18.0	X	278.04721	160.40879	154.87431	2.88912	0.2032504	0.26551434	2.3974196	21	3 28.5	21.3
453020 2007 RZ_{29}	17.7	X	227.67238	11.59438	326.13777	4.78518	0.1711147	0.25900074	2.4374481	21	3 9.9	21.5
453021 2007 RL_{41}	17.7	X	232.86489	282.26835	102.42103	2.95347	0.2330089	0.26459376	2.4029772	21	5 11.1	21.6
453022 2007 RS_{51}	17.2	X	17.58342	1.49905	240.88106	5.86999	0.0670436	0.26656740	2.3911016	21	6 3.7	19.8
453023 2007 RS_{83}	17.8	X	242.95887	95.77702	274.83368	0.75478	0.1988957	0.26532975	2.3985314	21	5 3.3	21.6
453024 2007 RK_{109}	17.9	X	211.48902	136.34690	216.60405	1.39835	0.2275901	0.25525978	2.4612050	21	3 15.1	22.2
453025 2007 RM_{138}	17.5	X	259.22946	10.57512	343.85685	5.80778	0.2381150	0.26575301	2.3959840	21	4 22.5	21.4
453026 2007 RP_{187}	17.9	X	246.62014	356.24824	342.73479	1.77088	0.2106502	0.26012187	2.4304395	21	3 27.1	21.6
453027 2007 RV_{189}	17.2	X	232.11081	334.26220	12.63176	6.75830	0.1364287	0.25811686	2.4430094	21	3 28.6	20.7
453028 2007 RR_{209}	17.8	X	203.47648	13.46156	39.61963	5.26716	0.1639448	0.26215255	2.4178721	21	5 22.6	21.6
453029 2007 RP_{213}	18.1	X	241.07248	111.35192	224.81273	0.55279	0.1909556	0.25994490	2.4315424	21	3 19.9	21.9
453030 2007 RS_{252}	18.7	X	184.04649	172.60472	203.40540	3.09790	0.2661432	0.25191319	2.4829546	21	3 22.8	23.1
453031 2007 RW_{266}	18.2	X	172.30508	24.43376	34.57393	2.88448	0.2106966	0.25644223	2.4536334	21	5 3.4	22.3
453032 2007 RK_{301}	18.6	X	237.37258	287.67532	52.60013	2.92218	0.2016201	0.25823499	2.4422643	21	3 22.9	22.6
453033 2007 RD_{310}	17.0	X	246.80694	273.06804	93.75973	6.61404	0.2321619	0.26574811	2.3960135	21	5 2.2	20.9
453034 2007 RA_{315}	18.1	X	229.43337	118.47457	240.04386	4.09040	0.2685232	0.26127678	2.4232720	21	4 2.2	22.4
453035 2007 RC_{315}	17.8	X	262.24831	104.95857	260.60955	1.50716	0.2039349	0.26893188	2.3770657	21	5 15.4	21.4
453036 2007 RN_{316}	17.4	X	302.23850	242.99476	58.12468	3.09914	0.2109866	0.26645024	2.3918025	21	4 6.1	20.3
453037 2007 RG_{321}	17.0	X	191.09330	176.70403	244.23405	5.81827	0.1249867	0.26222644	2.4174179	21	5 21.6	20.6
453038 2007 RH_{322}	15.8	X	288.05939	330.34159	196.92065	9.49519	0.1312431	0.15647889	3.4106112	21	—	—
453039 2007 RB_{325}	17.9	X	357.30413	29.78093	25.06471	20.78991	0.0997696	0.36550795	1.9373355	21	—	—
453040 2007 SL_3	17.7	X	263.87319	338.55383	359.59608	1.55319	0.2028719	0.26395745	2.4068375	21	4 11.5	21.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
453041 2007 SB_{15}	18.0	X	280.19785	8.58590	217.85176	20.03818	0.0536058	0.38318320	1.8772916	21	—	—
453042 2007 SY_{15}	17.7	X	289.00330	241.82519	72.96658	2.18165	0.1975666	0.26723861	2.3870961	21	4 9.8	20.8
453043 2007 TQ_{45}	16.2	X	271.43844	185.34472	211.71293	2.09814	0.2255006	0.12631938	3.9338948	21	7 5.2	21.8
453044 2007 TB_{47}	17.6	X	195.34632	208.42858	219.75148	5.64457	0.2513481	0.25982835	2.4322695	21	6 3.5	21.9
453045 2007 TY_{50}	17.5	X	297.55587	295.80447	6.06163	2.61407	0.2037656	0.26257696	2.4152660	21	4 1.3	20.7
453046 2007 TG_{51}	18.4	X	249.00009	137.76537	191.71098	0.36658	0.1958538	0.25713111	2.4492492	21	3 18.9	22.1
453047 2007 TO_{59}	18.0	X	199.79197	358.24778	48.87744	1.63304	0.1599882	0.26210553	2.4181613	21	5 12.0	21.8
453048 2007 TV_{72}	18.1	X	109.02118	156.68657	210.11072	20.38287	0.0963974	0.37797833	1.8944862	21	—	—
453049 2007 TO_{147}	17.4	X	215.12686	297.41305	100.69160	3.70306	0.1904912	0.26125280	2.4234203	21	5 14.9	21.4
453050 2007 TP_{155}	17.5	X	251.96562	72.21320	289.06524	3.14914	0.2060805	0.26297389	2.4128351	21	4 28.4	21.2
453051 2007 TU_{155}	17.8	X	223.53288	89.63557	289.37894	2.32674	0.2158283	0.25959573	2.4337223	21	4 25.3	22.0
453052 2007 TM_{161}	18.8	X	191.66010	334.39157	37.72353	1.72976	0.2904994	0.25326512	2.4741107	21	3 25.1	23.3
453053 2007 TY_{198}	17.4	X	242.44106	221.44941	220.81834	5.96614	0.1049759	0.27262596	2.3555442	21	8 16.1	20.6
453054 2007 TC_{204}	17.7	X	253.30470	263.34770	58.37274	6.44178	0.1098802	0.25238108	2.4798849	21	3 23.8	21.3
453055 2007 TL_{234}	16.2	X	268.88272	216.39754	175.28495	2.67181	0.2453932	0.12332826	3.9972469	21	6 24.0	22.2
453056 2007 TC_{240}	17.7	X	198.57286	218.43148	202.31267	4.39501	0.1840492	0.26023458	2.4297376	21	5 28.8	21.6
453057 2007 TT_{253}	17.8	X	270.96143	183.74539	154.67860	1.43986	0.0894789	0.26220438	2.4175535	21	5 4.7	21.0
453058 2007 TL_{260}	18.1	X	191.99425	199.91827	173.17036	2.44018	0.1946644	0.25136624	2.4865551	21	3 24.5	22.2
453059 2007 TB_{317}	17.6	X	158.16755	149.13327	202.67000	10.71313	0.1101171	0.23929313	2.5695036	21	1 18.4	21.5
453060 2007 TO_{350}	17.5	X	284.24376	142.18607	154.54821	6.42859	0.2084074	0.26463242	2.4027432	21	3 10.6	20.9
453061 2007 TF_{357}	17.5	X	232.51321	280.82422	65.43404	15.09941	0.1760279	0.25724708	2.4485130	21	4 3.1	21.7
453062 2007 TP_{430}	17.1	X	112.50991	3.94046	11.32715	14.70565	0.1015498	0.23942879	2.5685329	21	—	—
453063 2007 UC_{11}	16.2	X	113.54424	311.43075	66.16686	27.05444	0.0990752	0.23243753	2.6197824	21	—	—
453064 2007 UE_{15}	18.1	X	210.74165	236.35618	163.48093	1.50749	0.1745212	0.26107366	2.4245288	21	5 13.2	22.0
453065 2007 UA_{19}	18.1	X	247.20051	319.88194	7.72066	1.36486	0.1303278	0.25619736	2.4551967	21	3 19.6	21.6
453066 2007 UX_{27}	17.9	X	192.01999	257.81040	148.98187	2.98211	0.1847569	0.25873485	2.4391177	21	5 5.7	22.0
453067 2007 UO_{31}	18.4	X	200.32658	317.00421	54.60954	2.06079	0.2356600	0.25410763	2.4686389	21	3 30.3	22.6
453068 2007 UW_{49}	17.4	X	136.04844	295.54765	108.09071	4.14235	0.1832408	0.24225969	2.5484842	21	3 12.4	21.1
453069 2007 UP_{51}	17.1	X	125.65299	136.23694	236.86805	10.52983	0.1936529	0.23606702	2.5928606	21	1 19.1	20.8
453070 2007 UB_{55}	17.7	X	191.65823	261.22126	225.43481	7.33093	0.1333302	0.26785343	2.3834419	21	8 14.6	21.4
453071 2007 UE_{68}	17.8	X	227.88352	126.92929	253.46980	0.45710	0.1793491	0.25837599	2.4413756	21	5 3.6	21.7
453072 2007 UP_{101}	17.9	X	114.39442	350.67901	57.06499	3.56424	0.2237619	0.23861929	2.5743387	21	2 27.2	21.3
453073 2007 UM_{140}	17.4	X	209.52009	153.43417	215.37045	3.87041	0.1040214	0.25103466	2.4887442	21	4 3.2	21.2
453074 2007 VD_{6}	18.1	X	154.42108	273.17126	83.03204	23.80523	0.0952052	0.38353128	1.8761556	21	—	—
453075 2007 VP_{8}	17.5	X	118.29308	298.83241	90.97041	4.77663	0.0859468	0.23611878	2.5924816	21	1 19.0	20.8
453076 2007 VJ_{9}	17.1	X	67.31627	8.43752	94.50517	6.29928	0.2485420	0.23619135	2.5919506	21	3 8.3	19.6
453077 2007 VD_{11}	15.8	X	288.46885	50.55284	325.55260	4.58608	0.3327149	0.12560616	3.9487723	21	6 14.8	21.6
453078 2007 VU_{23}	17.6	X	50.66523	306.81843	201.25394	9.97372	0.1217687	0.24501014	2.5293757	21	3 17.9	20.2
453079 2007 VZ_{42}	17.5	X	103.92151	331.38463	84.20285	11.36528	0.1310701	0.23817550	2.5775355	21	2 11.7	20.9
453080 2007 VA_{51}	17.5	X	126.88202	232.08564	293.68950	3.94445	0.1628099	0.26113619	2.4241417	21	8 4.1	21.0
453081 2007 VB_{55}	17.6	X	182.29909	343.58429	79.94495	6.41726	0.1956045	0.25445231	2.4664092	21	5 18.6	21.6
453082 2007 VU_{58}	16.9	X	216.26000	301.63690	37.14399	7.13915	0.1158943	0.24663293	2.5182684	21	3 7.5	20.8
453083 2007 VW_{114}	18.0	X	171.91709	244.85322	99.01109	4.25101	0.2314678	0.24012775	2.5635462	21	2 4.3	22.3
453084 2007 VQ_{152}	17.2	X	253.37545	242.53315	77.96274	10.75732	0.2021930	0.25335653	2.4735155	21	3 17.7	21.4
453085 2007 VN_{154}	17.4	X	152.92870	4.74198	341.10414	4.88405	0.0594150	0.23530140	2.5984820	21	1 2.9	21.0
453086 2007 VS_{158}	17.2	X	310.75348	111.24768	94.24823	5.76681	0.0913424	0.23539124	2.5978208	21	1 3.4	20.7
453087 2007 VR_{162}	16.5	X	292.56726	77.31173	286.87720	2.08198	0.3448471	0.12546153	3.9518064	21	6 3.5	22.2
453088 2007 VB_{169}	16.7	X	351.81117	68.08482	74.26263	15.60059	0.0262323	0.22829571	2.6513733	21	—	—
453089 2007 VG_{191}	18.0	X	70.92508	247.79020	227.30256	9.94521	0.0438015	0.24386545	2.5372847	21	2 22.2	21.4
453090 2007 VR_{194}	17.1	X	145.57538	324.57168	98.02950	7.41291	0.1649774	0.24200852	2.5502472	21	4 15.1	21.1
453091 2007 VY_{194}	17.1	X	150.81922	145.33767	275.25878	12.56229	0.2310749	0.24311276	2.5425190	21	4 13.9	21.6
453092 2007 VD_{197}	17.5	X	139.46547	173.12966	276.24311	8.53136	0.2094711	0.24452467	2.5327224	21	5 11.5	21.6
453093 2007 VW_{202}	17.8	X	74.62354	143.18607	276.11340	19.17698	0.0890342	0.37099585	1.9181829	21	—	—
453094 2007 VK_{206}	17.8	X	87.60421	115.01074	235.13485	18.68226	0.1302461	0.37203889	1.9145960	21	—	—
453095 2007 VP_{274}	17.4	X	155.14225	125.15230	246.20319	7.45003	0.1761690	0.24075127	2.5591181	21	2 13.9	21.5
453096 2007 VY_{300}	16.4	X	171.40681	268.57099	108.53417	15.17087	0.1314442	0.24451076	2.5328185	21	3 14.3	20.5
453097 2007 VX_{310}	17.2	X	163.68515	82.94985	307.84331	2.74052	0.2769842	0.24271034	2.5453286	21	3 25.9	21.7
453098 2007 VN_{325}	18.3	X	146.56048	104.50488	301.78696	3.66699	0.2873369	0.24500846	2.5293873	21	3 31.1	22.6
453099 2007 VS_{328}	16.9	X	59.39936	31.26855	67.83079	13.85063	0.1397057	0.23416465	2.6068847	21	2 2.3	19.9
453100 2007 WU_{4}	18.9	X	147.73283	283.23679	66.97336	29.21869	0.5063144	0.24125311	2.5555680	21	2 23.4	24.4
453101 2007 WE_{37}	17.5	X	111.39523	54.84575	46.57530	11.51028	0.1483727	0.24488305	2.5302508	21	4 23.1	20.9
453102 2007 WC_{41}	15.9	X	298.48250	257.75542	110.05070	4.37079	0.1064659	0.12429030	3.9765938	21	7 19.8	21.2
453103 2007 WM_{52}	16.9	X	59.52753	175.19885	307.89774	3.47716	0.1768716	0.23022170	2.6365654	21	3 7.9	19.5
453104 2007 WW_{58}	17.1	X	48.01072	20.67429	94.41536	15.34168	0.1997983	0.22980432	2.6397568	21	2 7.8	19.7
453105 2007 WY_{59}	16.8	X	184.32433	85.87111	269.25869	13.82173	0.1628945	0.24201847	2.5501773	21	2 17.2	21.1
453106 2007 WR_{62}	16.2	X	286.75054	287.33651	297.49687	12.57325	0.1443915	0.21825726	2.7320601	21	—	—
453107 2007 XW_{9}	17.5	X	150.14095	245.31292	74.39166	22.70698	0.0651506	0.37100085	1.9181657	21	—	—
453108 2007 XN_{18}	17.9	X	84.23885	173.45395	261.47774	19.62093	0.0877125	0.37943423	1.8896370	21	—	—
453109 2007 XV_{20}	16.4	X	81.40826	353.07554	80.71067	20.26768	0.1597693	0.23366324	2.6106128	21	2 9.4	19.8
453110 2007 XS_{52}	17.3	X	133.86035	336.21356	106.17535	8.75720	0.1035724	0.24159226	2.5531757	21	4 21.9	21.0
453111 2007 XD_{55}	17.0	X	190.57133	65.17057	314.89037	5.37186	0.2563950	0.24424492	2.5346560	21	3 30.9	21.5
453112 2007 XF_{59}	17.0	X	203.47986	34.39746	333.14407	3.36179	0.1251904	0.24710546	2.5150569	21	3 26.3	21.0
453113 2007 YN_{7}	17.6	X	137.99255	289.41486	110.78804	3.06650	0.2670624	0.23753320	2.5821799	21	3 18.7	21.6
453114 2007 YS_{12}	17.8	X	122.72572	77.78008	19.12752	5.11266	0.1807441	0.24219735	2.5489215	21	5 2.1	21.5
453115 2007 YD_{20}	17.4	X	340.44546	90.41070	131.43775	13.55036	0.2260303	0.22934985	2.6432429	21	2 16.3	20.3
453116 2007 YN_{20}	17.5	X	129.68981	29.51032	36.97850	5.99302	0.1871671	0.24029841	2.5623323	21	4 3.8	21.3
453117 2007 YL_{30}	16.7	X	237.11435	235.37438	90.84507	9.79995	0.1559387	0.24627989	2.5206744	21	3 12.4	20.8
453118 2007 YV_{30}	17.3	X	180.48039	140.20451	253.61797	0.35334	0.1609444	0.24755048	2.5120418	21	4 7.9	21.1
453119 2007 YG_{32}	16.8	X	5.31874	118.10448	78.99741	14.83882	0.0660742	0.24165891	2.5527063	21	3 21.5	20.2
453120 2007 YK_{46}	17.1	X	106.83703	301.30125	125.83103	6.11615	0.0862085	0.23217997	2.6217194	21	2 22.7	20.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
453121 2007 YA_{49}	17.4	X	100.83694	336.15494	100.91594	8.92813	0.2030127	0.23568537	2.5956590	21	3 20.5	20.9
453122 2007 YG_{50}	18.1	X	305.93392	263.24687	293.36187	17.46975	0.0580173	0.37013437	1.9211581	21	—	—
453123 2007 YQ_{57}	17.7	X	77.06275	114.65838	281.35820	17.32176	0.1109642	0.36827206	1.9276294	21	—	—
453124 2007 YH_{62}	16.9	X	147.29986	81.71788	280.73132	6.48581	0.0478651	0.22719517	2.6599286	21	1 16.0	20.4
453125 2007 YD_{67}	17.2	X	97.65405	121.70497	312.67269	11.85690	0.1404699	0.23108535	2.6299921	21	2 23.7	20.6
453126 2007 YC_{74}	17.4	X	326.44302	88.57788	119.13735	24.69087	0.0549320	0.37609578	1.9008029	21	—	—
453127 2008 AP_{2}	17.1	X	139.85245	325.40239	107.01075	7.82522	0.2770200	0.24201251	2.5502192	21	5 1.1	21.4
453128 2008 AU_{20}	17.7	X	87.14100	350.52855	104.74691	3.74058	0.0540030	0.23004527	2.6379133	21	2 28.6	21.0
453129 2008 AU_{25}	17.2	X	101.25210	111.99816	325.25528	7.73869	0.1518355	0.23161142	2.6260082	21	3 7.4	20.5
453130 2008 AG_{27}	17.5	X	280.83547	210.22437	303.46290	17.15520	0.0585971	0.35496663	1.9755030	21	—	—
453131 2008 AT_{33}	17.6	X	298.92488	17.61433	123.57539	24.64089	0.0666967	0.35657597	1.9695545	21	—	—
453132 2008 AL_{35}	17.8	X	256.73749	156.98780	119.22233	23.84795	0.0610393	0.37594782	1.9013015	21	1 4.9	20.1
453133 2008 AD_{42}	17.5	X	142.89366	271.11784	151.22753	5.61035	0.2674089	0.24207991	2.5497458	21	4 19.3	21.7
453134 2008 AM_{45}	16.8	X	180.99584	287.85372	110.93800	14.25447	0.2549200	0.24443097	2.5333696	21	4 24.3	21.5
453135 2008 AN_{46}	17.1	X	354.58457	287.67749	262.96597	8.74903	0.1539332	0.23545587	2.5973454	21	2 2.3	20.2
453136 2008 AL_{54}	17.1	X	181.81084	82.93612	303.83638	6.31513	0.2769503	0.24416265	2.5352253	21	4 1.3	21.7
453137 2008 AM_{55}	17.4	X	1.58453	334.74874	247.70250	2.18737	0.0650313	0.23982368	2.5657126	21	4 10.1	20.4
453138 2008 AN_{65}	17.8	X	106.17720	267.64469	211.14270	2.71263	0.1912357	0.24036262	2.5618759	21	5 14.8	21.4
453139 2008 AU_{76}	17.0	X	155.78304	303.97520	85.18366	4.85166	0.2992420	0.23958122	2.5674433	21	3 23.3	21.5
453140 2008 AN_{86}	17.1	X	95.26413	142.40927	294.38182	10.92212	0.1663777	0.23376865	2.6098279	21	2 25.4	20.4
453141 2008 AZ_{95}	17.1	X	100.17447	116.91297	320.93017	13.85707	0.0708194	0.23149073	2.6269208	21	2 22.1	20.6
453142 2008 AG_{98}	17.0	X	120.96872	313.56381	102.48517	7.43506	0.0699927	0.23146367	2.6271255	21	2 25.9	20.6
453143 2008 AN_{99}	17.8	X	102.90810	21.16012	82.87108	4.98655	0.1021881	0.23666986	2.5884558	21	4 10.2	21.2
453144 2008 AG_{107}	17.0	X	49.46690	337.54452	117.45352	7.99112	0.1110302	0.22537079	2.6742641	21	1 6.7	19.8
453145 2008 AX_{112}	16.6	X	84.99310	62.52452	76.89157	13.23742	0.2268449	0.23342119	2.6124172	21	5 22.8	20.0
453146 2008 AG_{136}	17.3	X	64.02314	217.34420	227.67639	8.63796	0.2462111	0.22753364	2.6572901	21	1 28.8	19.8
453147 2008 AQ_{137}	17.6	X	144.09810	92.35809	318.41005	3.50270	0.2396138	0.23668006	2.5883814	21	3 31.7	21.8
453148 2008 BD_{27}	17.4	X	311.62644	118.03073	140.23273	3.84710	0.0316486	0.23663192	2.5887324	21	3 23.7	20.7
453149 2008 BM_{30}	17.8	X	85.85575	150.99926	320.15248	3.03094	0.1513031	0.23362701	2.6108827	21	3 31.0	20.9
453150 2008 BM_{37}	17.5	X	142.81247	3.68247	84.11022	5.94851	0.1740414	0.24286364	2.5442574	21	5 12.8	21.4
453151 2008 BD_{50}	16.6	X	205.68035	12.35145	292.26035	13.45643	0.1209374	0.22650947	2.6652941	21	1 14.3	20.8
453152 2008 CR_{8}	16.7	X	336.76445	347.92014	134.23376	4.78944	0.0508924	0.21238702	2.7821726	21	—	—
453153 2008 CY_{18}	17.3	X	85.13933	129.85984	333.95838	6.95269	0.1475214	0.22985163	2.6393946	21	3 19.4	20.5
453154 2008 CZ_{26}	17.3	X	149.25586	53.53651	322.45740	20.07625	0.0521971	0.37411628	1.9075019	21	1 8.6	19.4
453155 2008 CD_{53}	17.5	X	63.54907	17.76874	105.53478	5.55202	0.1280172	0.22994490	2.6386808	21	3 13.7	20.5
453156 2008 CC_{61}	17.2	X	339.38709	126.62471	84.31117	3.22501	0.1398575	0.22538413	2.6741586	21	2 14.3	20.5
453157 2008 CH_{65}	17.3	X	158.05478	116.29238	289.15400	3.86527	0.3157018	0.24095698	2.5576613	21	4 9.8	21.9
453158 2008 CE_{80}	17.5	X	80.44502	97.51767	333.48144	18.12353	0.1054086	0.37126571	1.9172533	21	—	—
453159 2008 CH_{140}	18.0	X	87.42887	188.88719	299.14251	0.27295	0.2292798	0.23504651	2.6003602	21	5 9.2	21.2
453160 2008 CD_{146}	17.5	X	1.98333	2.15935	167.03151	2.23512	0.1347474	0.22379019	2.6868413	21	1 24.8	20.6
453161 2008 CS_{159}	17.4	X	150.10575	276.70197	70.92766	6.00068	0.0695384	0.22084118	2.7107076	21	1 5.8	21.3
453162 2008 CH_{168}	17.4	X	121.49197	1.09404	126.22102	8.81125	0.2307137	0.24130059	2.5552327	21	6 16.5	21.4
453163 2008 CP_{206}	17.6	X	37.25522	115.79638	353.54021	4.72415	0.0738683	0.22164807	2.7041249	21	1 7.7	20.8
453164 2008 CB_{215}	16.3	X	338.81265	171.89174	16.64837	19.96870	0.2031309	0.21629680	2.7485437	21	1 10.5	20.2
453165 2008 DU_{34}	17.0	X	79.32745	300.41048	177.81836	12.10628	0.1470330	0.23180222	2.6245670	21	4 2.1	20.1
453166 2008 DE_{50}	16.8	X	162.96474	32.51490	23.88930	8.17365	0.2797067	0.24364086	2.5388437	21	4 25.6	21.4
453167 2008 DN_{70}	16.6	X	325.21311	195.32288	9.24570	13.45718	0.1088920	0.22213127	2.7002020	21	1 25.8	20.4
453168 2008 DU_{73}	17.3	X	358.84669	335.43439	190.66136	1.15829	0.1752111	0.22091262	2.7101232	21	1 11.2	20.3
453169 2008 DS_{75}	17.6	X	11.61555	347.21338	149.45353	5.36911	0.0523110	0.21917447	2.7244326	21	1 5.9	21.2
453170 2008 DW_{79}	16.6	X	71.08823	38.58617	99.44017	12.93776	0.1229527	0.23200327	2.6230505	21	4 18.9	20.0
453171 2008 DO_{81}	17.9	X	73.44261	282.31940	187.77184	2.73219	0.1874765	0.22751277	2.6574526	21	3 17.9	20.6
453172 2008 DN_{82}	17.6	X	56.58179	85.60604	40.15010	3.54732	0.1528665	0.22543275	2.6737741	21	3 7.7	20.3
453173 2008 EA_{16}	17.3	X	38.86034	255.41282	309.19800	0.95985	0.2134101	0.23309851	2.6148275	21	6 2.6	19.7
453174 2008 EE_{18}	17.3	X	66.93456	313.77926	213.21652	11.45426	0.1470753	0.23257489	2.6187507	21	5 20.5	20.4
453175 2008 EX_{22}	16.3	X	2.28845	170.39800	295.66196	6.98176	0.1827115	0.21245800	2.7815529	21	—	—
453176 2008 EY_{35}	16.7	X	72.70100	9.83213	165.36843	16.03834	0.1002214	0.23595415	2.5936874	21	6 4.1	20.3
453177 2008 EF_{38}	16.9	X	223.60471	199.87866	76.05897	5.39123	0.0719685	0.21354402	2.7721142	21	—	—
453178 2008 EU_{50}	17.1	X	84.71159	294.36920	158.79676	22.03788	0.0465546	0.22551276	2.6731416	21	2 20.2	20.6
453179 2008 EA_{51}	16.6	X	72.96498	123.00197	354.90219	12.99018	0.2083948	0.22777160	2.6554391	21	3 29.1	19.5
453180 2008 EJ_{64}	17.3	X	2.59515	239.14367	236.56019	3.23595	0.1652288	0.21340104	2.7733523	21	—	—
453181 2008 EQ_{72}	17.1	X	78.32991	122.33593	12.98610	8.94290	0.0948203	0.23289389	2.6163589	21	4 13.5	20.4
453182 2008 EZ_{112}	17.0	X	352.39820	215.03997	346.47391	12.36898	0.0901999	0.22379798	2.6867789	21	2 28.4	20.1
453183 2008 EL_{120}	16.7	X	263.96185	67.05414	178.54074	13.32359	0.1476422	0.21231393	2.7828110	21	—	—
453184 2008 EM_{123}	16.2	X	90.98840	240.91916	22.59205	16.48652	0.2260246	0.17613506	3.1518982	21	10 27.7	21.2
453185 2008 EP_{128}	17.3	X	109.13796	337.48647	137.59557	4.87428	0.2840611	0.23746757	2.5826557	21	5 25.9	21.3
453186 2008 EQ_{134}	17.3	X	299.50968	39.29807	161.15034	5.38924	0.0959477	0.21263376	2.7800199	21	—	—
453187 2008 EJ_{153}	17.1	X	81.15930	55.73440	102.40884	6.08457	0.2031969	0.23529875	2.5985015	21	6 7.4	20.3
453188 2008 EK_{157}	17.1	X	85.10324	212.05861	203.85944	3.14666	0.0869917	0.21410181	2.7672973	21	1 11.4	20.6
453189 2008 FT	17.6	X	5.24834	262.02021	277.43983	2.03876	0.1110822	0.22507187	2.6766314	21	2 14.9	20.8
453190 2008 FR_{22}	17.2	X	21.71143	345.43330	167.34629	10.13850	0.0576660	0.21923666	2.7239174	21	2 8.9	20.6
453191 2008 FM_{23}	15.9	X	92.80829	241.73852	37.67887	15.64107	0.1315266	0.18180283	3.0860453	21	11 9.2	20.6
453192 2008 FC_{32}	17.3	X	220.99175	70.92507	190.37998	3.67595	0.0217763	0.21208975	2.7847717	21	—	—
453193 2008 FL_{59}	17.1	X	298.98428	90.40086	183.24575	13.34318	0.1625760	0.22083882	2.7107269	21	3 7.3	20.8
453194 2008 FR_{62}	17.7	X	87.04253	340.32384	119.54715	3.28949	0.1675829	0.22926888	2.6438652	21	3 23.8	20.9
453195 2008 FB_{72}	17.1	X	237.74296	120.02335	147.38389	6.26914	0.0714340	0.21464349	2.7626396	21	1 3.8	21.3
453196 2008 FP_{78}	16.3	X	130.05842	180.45063	198.62818	9.68698	0.2922658	0.21479043	2.7613795	21	2 15.2	20.7
453197 2008 FR_{87}	16.7	X	342.02132	59.06626	16.67153	12.82233	0.1034546	0.19723669	2.9228795	21	12 28.8	20.5
453198 2008 FW_{101}	17.0	X	290.07971	114.90917	101.58989	6.06220	0.1026721	0.20958855	2.8068832	21	—	—
453199 2008 FR_{124}	17.3	X	10.53243	341.91382	160.83898	9.94823	0.1471805	0.21524171	2.7575185	21	1 4.7	20.6
453200 2008 FV_{127}	16.9	X	95.34497	284.19766	210.11879	14.57051	0.1319968	0.23067788	2.6330882	21	5 14.6	20.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
453201 2008 FU_{135}	13.6	X	255.11378	307.69178	56.60003	22.84599	0.0570332	0.08112721	5.2847568	21	5 29.9	20.7
453202 2008 GY_{44}	17.1	X	56.28258	227.95931	244.58179	4.01836	0.1247951	0.21734559	2.7396947	21	2 12.3	20.3
453203 2008 GG_{63}	17.0	X	64.94578	37.90176	69.10915	4.12455	0.0429239	0.21923531	2.7239286	21	2 14.1	20.6
453204 2008 GV_{76}	16.2	X	87.74875	56.54645	201.34533	27.37563	0.2120216	0.17332863	3.1858294	21	10 18.9	21.1
453205 2008 GW_{80}	16.8	X	128.86072	227.28938	46.66649	10.95258	0.0841325	0.19005991	2.9960039	21	12 6.6	21.4
453206 2008 GX_{105}	17.2	X	256.66308	172.42513	69.35554	5.32613	0.0177502	0.21046995	2.7990413	21	—	—
453207 2008 GO_{115}	17.5	X	72.29860	256.96322	224.39678	5.91896	0.4687152	0.23253038	2.6190849	21	5 19.0	20.7
453208 2008 GK_{120}	16.3	X	302.68228	169.08000	38.81922	14.52031	0.1478104	0.21388237	2.7691898	21	—	—
453209 2008 GL_{123}	17.4	X	338.71145	230.89784	302.94503	2.08937	0.0303831	0.21498862	2.7596822	21	1 12.6	21.1
453210 2008 GA_{128}	16.3	X	210.36289	125.51113	92.14720	13.85829	0.0839181	0.19129435	2.9831010	21	12 24.8	20.6
453211 2008 GZ_{145}	16.9	X	29.88108	264.26655	219.70109	14.27952	0.1081761	0.21427356	2.7658184	21	1 12.4	20.4
453212 2008 HU_{7}	16.0	X	78.82395	218.72801	78.61123	18.47417	0.2298423	0.17705182	3.1410085	21	11 28.9	21.0
453213 2008 HK_{8}	16.8	X	151.36467	159.75317	110.66124	11.04436	0.0447519	0.19112407	2.9848725	21	12 26.8	21.2
453214 2008 HU_{13}	16.8	X	343.69727	46.93473	209.74301	14.11074	0.0849318	0.22996845	2.6385007	21	4 30.8	19.8
453215 2008 HP_{14}	17.1	X	305.08262	318.56677	245.25830	4.40791	0.1145813	0.21232418	2.7827215	21	—	—
453216 2008 HQ_{17}	15.9	X	121.02834	152.97560	103.34403	10.03219	0.1780020	0.18032744	3.1028551	21	11 16.3	21.1
453217 2008 HU_{22}	17.8	X	84.00272	260.93538	212.13572	11.87192	0.2302255	0.22805347	2.6532505	21	4 14.3	21.1
453218 2008 HZ_{29}	16.1	X	81.06053	207.88642	76.37313	12.72568	0.1340761	0.17497436	3.1658216	21	11 6.9	20.9
453219 2008 HK_{35}	15.6	X	81.53148	241.89189	83.07177	12.46125	0.1416029	0.18468024	3.0539066	21	12 23.8	20.1
453220 2008 HN_{50}	17.0	X	263.25353	1.32658	222.10845	14.34991	0.0862252	0.20329696	2.8644998	21	—	—
453221 2008 HG_{55}	16.7	X	193.14638	44.68588	220.79139	11.55557	0.1115124	0.19530545	2.9421161	21	—	—
453222 2008 HQ_{68}	15.8	X	74.57133	182.50503	118.35109	12.24234	0.1071408	0.17939733	3.1135707	21	11 17.3	20.5
453223 2008 HG_{69}	13.4	X	299.67849	241.76836	86.37767	25.88145	0.0237365	0.08218127	5.2394714	21	6 15.2	20.1
453224 2008 JX_{9}	16.3	X	141.01029	126.05736	91.07684	2.84940	0.0766625	0.17706076	3.1409028	21	10 13.4	21.0
453225 2008 JS_{10}	16.3	X	129.70406	247.35136	62.58158	11.28853	0.2742689	0.18984720	2.9982413	21	—	—
453226 2008 JU_{22}	16.9	X	302.29042	157.88422	97.11624	9.95598	0.1606059	0.21661753	2.7458300	21	2 21.5	20.8
453227 2008 JW_{32}	17.3	X	47.36520	105.80017	71.28804	14.21559	0.1208183	0.22614566	2.6681519	21	5 2.4	20.4
453228 2008 JZ_{40}	16.1	X	118.91372	169.62314	130.35773	17.76545	0.2719588	0.18167285	3.0875171	21	—	—
453229 2008 KZ_{10}	16.0	X	35.51294	265.86688	72.17628	15.77179	0.0633251	0.17937062	3.1138798	21	11 8.4	20.3
453230 2008 KJ_{13}	13.8	X	78.27746	124.63198	55.01435	11.12290	0.1446313	0.08334229	5.1906980	21	6 24.9	20.7
453231 2008 KH_{18}	16.4	X	88.66498	188.25396	113.37779	19.24740	0.1940599	0.17808352	3.1288655	21	12 10.9	21.5
453232 2008 KV_{38}	15.6	X	93.39364	79.73516	227.73134	12.26296	0.1264032	0.18150584	3.0894107	21	12 13.2	20.4
453233 2008 LK_{14}	16.3	X	50.90496	243.73266	89.38209	27.63771	0.2583130	0.17384866	3.1794731	21	12 15.0	20.8
453234 2008 OA_{20}	17.6	X	268.28080	66.48424	329.01463	5.48887	0.0813745	0.29800489	2.2198338	21	7 23.7	20.2
453235 2008 PU_{3}	18.7	X	316.65314	99.69404	247.98446	5.62938	0.2576711	0.29858514	2.2169570	21	6 27.4	20.2
453236 2008 PQ_{8}	18.0	X	1.50730	35.02855	276.74055	3.66085	0.2207502	0.30458843	2.1877303	21	9 5.2	19.0
453237 2008 QP_{13}	17.8	X	303.69292	46.20909	346.38321	5.12993	0.1890002	0.30090758	2.2055351	21	8 30.7	19.4
453238 2008 QT_{17}	18.3	X	265.42730	170.18003	161.76533	4.29446	0.2205722	0.28603428	2.2813434	21	4 2.8	21.8
453239 2008 RB_{31}	16.6	X	25.62910	220.98714	188.50462	1.23856	0.0631331	0.17030959	3.2233687	21	—	—
453240 2008 RB_{52}	18.6	X	39.06215	59.54974	215.55383	4.67839	0.1689714	0.30507261	2.1854149	21	9 17.1	20.7
453241 2008 RZ_{62}	18.1	X	277.75109	248.69149	157.08545	6.54557	0.1020098	0.29916952	2.2140690	21	8 17.9	20.4
453242 2008 RG_{106}	19.0	X	319.41032	152.77679	168.15311	6.95946	0.2706506	0.29612064	2.2292405	21	5 18.9	21.1
453243 2008 RB_{121}	18.2	X	225.28478	242.73358	221.72205	4.28651	0.0400935	0.29918338	2.2140007	21	9 5.7	20.8
453244 2008 RB_{138}	18.1	X	261.22319	72.36859	315.17275	6.29510	0.1918320	0.29011139	2.2599189	21	6 14.1	21.3
453245 2008 SV_{28}	17.9	X	276.99451	120.99080	256.25755	1.92828	0.2241837	0.29217786	2.2492506	21	6 14.4	20.9
453246 2008 SJ_{29}	18.2	X	219.29777	96.83827	256.00666	1.58749	0.1971871	0.27622521	2.3350374	21	3 19.4	21.9
453247 2008 SS_{31}	18.1	X	306.23863	66.20797	291.45715	4.03560	0.1656015	0.29520818	2.2338318	21	7 11.3	20.1
453248 2008 SN_{38}	18.3	X	340.29187	195.47948	123.68839	1.45570	0.1230174	0.29532096	2.2332630	21	7 23.9	20.1
453249 2008 SH_{43}	18.1	X	12.04053	122.10137	173.10992	3.31699	0.2104351	0.30133864	2.2034312	21	9 3.1	19.2
453250 2008 SQ_{47}	18.1	X	336.43432	137.56212	190.71111	3.87424	0.1871652	0.29954910	2.2121982	21	7 24.3	19.6
453251 2008 SU_{58}	17.7	X	295.60407	233.44775	54.11658	3.09244	0.2364844	0.28071187	2.3100898	21	3 6.3	21.0
453252 2008 SN_{68}	18.0	X	269.39837	304.91763	73.33605	2.67345	0.2376808	0.29104182	2.2550999	21	6 4.7	21.2
453253 2008 SK_{96}	18.2	X	306.58407	13.70141	322.24997	2.19491	0.1941779	0.29173585	2.2515219	21	6 1.2	20.5
453254 2008 SL_{132}	18.0	X	43.52876	56.54843	230.66086	1.85715	0.1876567	0.30153138	2.2024922	21	10 16.7	20.3
453255 2008 SD_{136}	17.4	X	79.69921	328.34482	261.64945	5.02954	0.1266685	0.29645159	2.2275811	21	9 1.5	20.3
453256 2008 SP_{139}	17.5	X	355.00894	358.57889	316.78142	4.90806	0.1475712	0.30126730	2.2037791	21	8 20.2	19.0
453257 2008 SE_{141}	16.0	X	354.53616	137.39476	253.39725	11.04305	0.0706982	0.15761087	3.3942613	21	11 9.1	20.6
453258 2008 SY_{156}	17.9	X	280.20526	76.30211	313.29082	2.82509	0.1727838	0.29620180	2.2288333	21	7 15.9	20.1
453259 2008 SQ_{162}	18.3	X	265.68514	218.62742	175.04887	2.14579	0.1648627	0.29236693	2.2482808	21	7 2.2	21.2
453260 2008 SG_{181}	18.5	X	358.34527	137.44661	154.43773	1.70059	0.1445485	0.29265422	2.2468092	21	7 16.7	19.9
453261 2008 SP_{190}	18.8	X	234.05216	163.87243	267.30516	2.51316	0.0994012	0.29336742	2.2431662	21	7 24.3	21.8
453262 2008 SA_{196}	18.2	X	220.86486	221.52958	200.61946	6.23325	0.0815097	0.28519109	2.2858378	21	6 26.6	21.3
453263 2008 SK_{201}	18.1	X	281.21066	199.09383	214.53924	3.98214	0.1500359	0.29672263	2.2262244	21	8 25.6	20.3
453264 2008 SP_{231}	17.6	X	286.42039	69.93024	343.67231	7.38998	0.0952459	0.30144629	2.2029066	21	9 14.8	19.6
453265 2008 SP_{237}	18.6	X	224.31659	202.21480	201.08463	2.02230	0.1695885	0.28602839	2.2813747	21	5 29.7	22.0
453266 2008 SR_{241}	18.3	X	315.90192	264.30540	75.17778	3.67258	0.1791119	0.29506788	2.2345398	21	6 27.8	20.0
453267 2008 SX_{241}	18.3	X	287.28523	173.86192	155.78168	5.52463	0.2442618	0.28817854	2.2700127	21	4 20.6	21.4
453268 2008 SR_{252}	18.4	X	0.85624	179.28568	123.61858	2.08212	0.1565391	0.29694514	2.2251122	21	8 13.2	19.9
453269 2008 SH_{273}	18.1	X	201.86440	305.69020	74.28498	3.66592	0.1841586	0.27247035	2.3564409	21	4 10.1	21.8
453270 2008 SJ_{290}	18.7	X	246.98940	200.27966	164.42013	6.55600	0.2787245	0.28338473	2.2955411	21	4 24.9	22.6
453271 2008 SN_{297}	17.7	X	247.77756	201.90072	126.75392	3.22292	0.1760823	0.27608467	2.3358298	21	3 17.5	21.2
453272 2008 SJ_{300}	18.1	X	307.52806	43.63600	289.83683	3.23033	0.1919079	0.29261221	2.2470242	21	5 30.3	20.3
453273 2008 SB_{305}	18.2	X	3.45851	246.37859	44.94668	5.47267	0.2473672	0.29737700	2.2229574	21	8 9.4	19.1
453274 2008 SD_{310}	17.8	X	260.81787	288.81969	88.45852	7.30383	0.1424406	0.28317371	2.2966815	21	6 6.4	20.7
453275 2008 TL_{12}	18.3	X	331.65609	42.31682	275.28597	2.42066	0.1443783	0.29682163	2.2257294	21	6 29.9	20.0
453276 2008 TR_{20}	18.4	X	254.94644	134.59588	212.79902	5.94698	0.1539805	0.27969641	2.3156778	21	4 17.9	21.6
453277 2008 TJ_{40}	15.9	X	305.35484	233.23081	306.40333	8.41106	0.1199747	0.17590394	3.1546584	21	—	—
453278 2008 TY_{41}	18.4	X	36.34432	17.89249	253.78219	8.46576	0.0845863	0.29580902	2.2308058	21	8 19.2	20.9
453279 2008 TD_{46}	17.8	X	327.70297	254.05034	55.60085	6.88669	0.2067513	0.29012329	2.2598571	21	5 27.7	19.4
453280 2008 TY_{53}	18.2	X	259.15350	259.32848	125.83966	2.14011	0.1927828	0.28891771	2.2661393	21	6 8.6	21.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
453281 2008 TZ_{72}	18.1	X	332.04739	65.15345	222.94446	7.78041	0.1894257	0.28580959	2.2825389	21	5 5.2	20.2
453282 2008 TF_{75}	18.5	X	242.76132	140.47331	197.90615	0.74024	0.2099161	0.27673616	2.3321623	21	3 21.8	22.2
453283 2008 TA_{89}	18.4	X	200.67961	87.97881	22.97162	5.18052	0.1714117	0.28897126	2.2658593	21	8 6.9	21.8
453284 2008 TY_{90}	18.6	X	167.50137	285.46795	146.12220	2.65532	0.2045407	0.27401361	2.3475848	21	5 15.2	22.4
453285 2008 TH_{91}	18.2	X	238.33066	172.29391	154.39224	2.20875	0.2089843	0.27669475	2.3323950	21	3 3.8	22.0
453286 2008 TR_{94}	17.7	X	163.12227	260.70651	166.16967	6.59326	0.0694499	0.27617246	2.3353347	21	4 27.2	20.8
453287 2008 TH_{110}	18.1	X	284.33927	15.96985	324.75342	4.85148	0.1869615	0.28775209	2.2722550	21	5 6.3	21.0
453288 2008 TQ_{164}	16.1	X	84.42065	229.99601	192.14374	9.72758	0.0647199	0.17783928	3.1317296	21	1 22.1	20.5
453289 2008 TX_{165}	17.7	X	313.12818	59.78718	316.44938	6.19574	0.1007814	0.29850219	2.2173676	21	9 2.1	19.8
453290 2008 TX_{172}	18.2	X	342.56019	59.02336	244.19980	6.47651	0.1487430	0.29091919	2.2557336	21	6 28.5	19.9
453291 2008 TA_{174}	18.7	X	212.93321	254.28124	182.41141	2.76186	0.0839243	0.28839040	2.2689008	21	7 7.3	21.7
453292 2008 TM_{179}	17.9	X	240.04700	267.88944	57.11130	14.57549	0.3257427	0.27758584	2.3274008	21	3 6.7	22.4
453293 2008 TZ_{187}	15.8	X	124.43772	113.87842	222.61381	11.55289	0.0215363	0.17172163	3.2056742	21	—	—
453294 2008 UB_{11}	18.3	X	166.22590	248.09135	219.11934	4.48467	0.1910476	0.28309412	2.2971119	21	6 27.7	21.9
453295 2008 UT_{69}	18.0	X	281.74822	217.71531	118.04069	3.49718	0.1737289	0.28569977	2.2831238	21	5 1.8	21.0
453296 2008 UY_{96}	18.0	X	327.02448	249.84492	109.23126	3.75426	0.1837333	0.29815737	2.2190769	21	8 29.5	19.3
453297 2008 UN_{105}	18.7	X	230.62184	170.17202	233.84117	5.06118	0.2313551	0.28196679	2.3032305	21	6 1.8	22.4
453298 2008 UR_{109}	17.8	X	75.58356	348.81739	254.25902	6.76134	0.0714237	0.29420360	2.2389139	21	9 4.7	20.6
453299 2008 UW_{142}	17.7	X	106.15700	83.53386	54.16977	5.79549	0.1692048	0.27200801	2.3591104	21	6 4.2	20.9
453300 2008 UF_{179}	17.2	X	278.61220	312.77267	32.16706	7.45651	0.1437316	0.28204392	2.3028106	21	5 12.6	20.2
453301 2008 UH_{197}	17.3	X	37.23988	214.42812	63.39294	8.26958	0.1521068	0.29512411	2.2342559	21	9 21.3	19.7
453302 2008 UR_{199}	18.8	X	168.89404	210.65997	222.23766	1.43380	0.1641357	0.27567598	2.3381378	21	5 15.6	22.5
453303 2008 UH_{213}	18.3	X	307.96415	112.45321	274.12045	4.20999	0.1619733	0.29953585	2.2122634	21	8 30.8	20.2
453304 2008 UZ_{223}	17.1	X	127.15875	311.13201	243.83244	24.96734	0.1293119	0.28959015	2.2626299	21	8 30.6	21.1
453305 2008 UC_{284}	18.5	X	238.86555	292.46136	99.94703	1.88117	0.1573151	0.28374092	2.2936197	21	5 31.1	21.8
453306 2008 UH_{284}	18.9	X	211.74506	34.97513	61.93533	3.79483	0.1770708	0.28756982	2.2732150	21	7 28.7	22.3
453307 2008 UC_{336}	18.2	X	238.84347	95.24202	301.83180	2.22554	0.1537144	0.28309163	2.2971254	21	6 6.4	21.3
453308 2008 UT_{359}	18.4	X	191.94420	234.06417	169.72364	1.43561	0.1757432	0.27322137	2.3521207	21	4 30.3	22.1
453309 2008 VQ_{4}	19.4	X	111.78145	232.62469	256.35816	11.58216	0.3322982	0.42576470	1.7499391	21	6 15.6	21.2
453310 2008 VC_{24}	18.0	X	278.38474	236.43023	119.51293	3.37212	0.1405039	0.28301707	2.2975288	21	5 30.4	20.8
453311 2008 VA_{25}	18.0	X	150.11125	55.68992	63.42400	3.27705	0.1591824	0.27927361	2.3180143	21	6 26.9	21.4
453312 2008 VH_{30}	17.8	X	224.46594	190.95372	254.51792	5.72550	0.0655334	0.28868992	2.2673312	21	8 3.7	20.9
453313 2008 VA_{38}	17.5	X	153.90865	344.10098	85.94357	6.68408	0.0950544	0.27041397	2.3683722	21	4 24.0	20.8
453314 2008 VB_{39}	18.2	X	165.24151	129.41183	302.35908	1.63198	0.2014548	0.27177806	2.3604409	21	5 11.9	22.0
453315 2008 VG_{41}	18.5	X	322.46056	70.02758	281.48049	4.91282	0.2392070	0.29531695	2.2332832	21	7 22.4	19.9
453316 2008 VJ_{49}	17.9	X	265.83265	142.51975	227.45068	6.19032	0.1761272	0.28329703	2.2960149	21	5 28.7	20.9
453317 2008 VA_{60}	17.6	X	258.74494	110.61917	228.78588	3.66224	0.2487055	0.27942877	2.3171561	21	4 2.2	21.4
453318 2008 VR_{67}	18.5	X	218.33459	105.57267	292.50277	3.53157	0.2306116	0.27860505	2.3217212	21	5 13.5	22.4
453319 2008 VM_{77}	17.5	X	187.89749	88.14470	72.95428	23.00115	0.2678558	0.28988843	2.2610776	21	10 7.0	21.9
453320 2008 WG_{11}	18.3	X	186.04886	357.81977	79.97211	3.15850	0.1855504	0.27794818	2.3253776	21	6 7.5	21.9
453321 2008 WC_{18}	18.3	X	345.43813	40.82751	256.33068	5.85498	0.1367912	0.28872503	2.2671474	21	6 26.0	19.9
453322 2008 WC_{37}	18.6	X	210.79687	252.36277	198.85352	0.25704	0.1799643	0.28438337	2.2901640	21	7 18.7	22.0
453323 2008 WY_{40}	17.9	X	63.87175	357.63955	232.42014	5.38875	0.0842934	0.28394820	2.2925033	21	8 2.2	20.6
453324 2008 WB_{77}	17.6	X	205.86394	303.68658	84.36224	7.87322	0.1181995	0.27300663	2.3533539	21	4 26.2	21.1
453325 2008 WD_{79}	18.4	X	132.65938	24.00161	144.41996	3.47581	0.1262690	0.28232569	2.3012781	21	8 12.2	21.7
453326 2008 WV_{126}	18.0	X	100.07969	33.91904	144.06743	3.48245	0.1709954	0.26470092	2.4023286	21	7 23.2	21.4
453327 2008 WB_{130}	18.0	X	135.52537	52.92550	94.48696	4.45083	0.1544870	0.27666754	2.3325479	21	7 20.1	21.4
453328 2008 XN_{20}	17.9	X	225.57176	340.67150	102.31983	5.86621	0.1707486	0.28369974	2.2938416	21	7 23.9	21.3
453329 2008 XK_{47}	17.3	X	232.06862	11.94211	63.31190	8.19386	0.1363572	0.28159037	2.3052827	21	7 25.4	20.6
453330 2008 XF_{54}	17.2	X	232.33560	150.89593	259.33766	5.76795	0.1201989	0.27914943	2.3187017	21	6 20.6	20.4
453331 2008 YZ_{4}	18.1	X	205.72121	113.47998	301.59863	0.83999	0.1767771	0.27405342	2.3473575	21	5 27.0	21.6
453332 2008 YA_{18}	17.7	X	251.76729	90.74152	278.05594	2.39133	0.2013677	0.27342485	2.3509536	21	5 8.5	21.2
453333 2008 YY_{35}	17.6	X	209.83001	332.99306	90.51415	3.11511	0.2050945	0.27451831	2.3447066	21	6 10.1	21.4
453334 2008 YZ_{35}	18.3	X	204.76290	326.15648	84.20484	3.10753	0.1645127	0.27021173	2.3695538	21	5 20.9	22.0
453335 2008 YL_{37}	17.8	X	239.39407	280.77433	117.73733	5.20138	0.2572869	0.27831713	2.3233221	21	6 1.4	21.6
453336 2008 YT_{39}	18.1	X	171.58389	47.94886	85.41339	7.05690	0.0556675	0.27773258	2.3265809	21	8 8.5	21.2
453337 2008 YH_{48}	18.4	X	244.59944	312.81549	105.77135	8.74978	0.1877777	0.28127604	2.3069998	21	7 8.9	21.6
453338 2008 YW_{58}	18.8	X	138.77932	108.05279	43.84500	1.73145	0.1647044	0.27401237	2.3475919	21	7 30.4	22.3
453339 2008 YF_{71}	17.1	X	79.90071	108.74940	93.12614	9.36307	0.1721417	0.26864540	2.3787553	21	8 2.5	20.2
453340 2008 YQ_{79}	18.0	X	230.99980	247.89979	161.35529	2.90559	0.2286324	0.27658310	2.3330227	21	6 9.5	21.7
453341 2008 YU_{89}	17.8	X	220.94058	51.10835	294.78236	5.10627	0.2092501	0.26327285	2.4110081	21	3 11.7	21.9
453342 2008 YZ_{94}	18.0	X	121.31437	27.41362	96.37103	2.75473	0.1476815	0.26553203	2.3973132	21	6 1.4	21.3
453343 2008 YL_{106}	17.8	X	93.81557	81.28567	96.91758	5.39390	0.1222457	0.26730876	2.3866785	21	7 9.1	20.8
453344 2008 YC_{107}	18.0	X	230.71108	262.19851	117.17094	3.35053	0.1968465	0.27044926	2.3681663	21	5 4.6	21.8
453345 2008 YA_{109}	17.5	X	131.69629	3.89201	113.64286	7.14480	0.0812619	0.26481963	2.4016107	21	5 29.6	20.7
453346 2008 YE_{114}	17.9	X	229.04502	43.35093	25.46065	1.86689	0.1650468	0.28050933	2.3112017	21	7 8.7	21.2
453347 2008 YE_{124}	18.3	X	246.41676	151.94679	217.02842	1.78516	0.1695203	0.27261570	2.3556032	21	5 6.9	21.6
453348 2008 YA_{125}	18.1	X	136.75610	76.91819	28.98949	1.79484	0.1442233	0.26535539	2.3983769	21	5 24.8	21.6
453349 2008 YD_{134}	17.2	X	19.95839	312.48544	261.16990	9.47567	0.1717043	0.26671515	2.3902185	21	4 21.9	19.3
453350 2008 YB_{136}	18.0	X	208.72322	300.24699	72.00726	3.63903	0.1873603	0.26729865	2.3867387	21	4 6.9	21.8
453351 2008 YZ_{157}	17.8	X	66.54608	191.60879	359.47680	2.40374	0.1345404	0.26256971	2.4153105	21	6 19.6	20.5
453352 2008 YX_{160}	16.6	X	28.92061	60.43273	81.75610	13.38455	0.0968956	0.24492661	2.5299508	21	2 3.5	19.6
453353 2008 YJ_{164}	17.9	X	141.89709	214.66816	272.46001	2.33302	0.1214450	0.27086692	2.3657312	21	6 26.4	21.1
453354 2008 YW_{165}	17.5	X	241.23330	274.04123	119.84886	2.12595	0.1861094	0.27232949	2.3572534	21	6 2.5	21.1
453355 2009 AA_{7}	18.1	X	126.57023	321.22603	188.71306	2.38083	0.1148526	0.27108089	2.3644862	21	7 9.1	21.3
453356 2009 AR_{13}	17.9	X	238.68456	312.77583	120.57040	6.70446	0.1962668	0.28340353	2.2954397	21	7 21.8	21.2
453357 2009 AV_{13}	18.5	X	221.43848	180.77900	254.71646	2.33927	0.1884749	0.27992269	2.3144296	21	7 7.4	21.9
453358 2009 AS_{25}	18.4	X	106.14019	309.45265	202.01367	1.25488	0.1751713	0.26580094	2.3956960	21	6 24.7	21.8
453359 2009 AQ_{29}	17.3	X	122.70641	191.46973	296.43481	6.04451	0.0476299	0.26825316	2.3810736	21	5 25.1	20.5
453360 2009 AK_{46}	17.8	X	131.36907	110.87802	311.19707	4.26007	0.1724017	0.25492782	2.4633411	21	3 24.1	21.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
453361 2009 AP_{46}	18.7	X	148.35835	230.69351	257.40343	0.50493	0.1325361	0.27186344	2.3599466	21	7 5.6	21.9
453362 2009 BO_{11}	18.1	X	215.85611	205.62870	238.52996	5.31784	0.1746148	0.27941489	2.3172329	21	7 13.6	21.8
453363 2009 BC_{21}	18.7	X	151.92853	161.38963	289.63223	0.52468	0.1507395	0.26625170	2.3929913	21	5 21.9	22.3
453364 2009 BE_{23}	17.3	X	84.52140	229.12168	330.83367	12.04462	0.1317935	0.26748383	2.3856370	21	7 31.5	20.4
453365 2009 BC_{31}	17.7	X	126.02181	76.77570	113.38744	7.29308	0.0751006	0.27704083	2.3304522	21	9 1.7	20.9
453366 2009 BF_{31}	18.1	X	58.49861	114.36808	97.53750	3.20572	0.1294032	0.26554585	2.3972300	21	7 6.8	20.5
453367 2009 BA_{34}	17.8	X	136.60331	9.56346	104.31942	4.06713	0.1726723	0.26524305	2.3990541	21	6 7.6	21.3
453368 2009 BZ_{41}	17.7	X	224.69128	54.89816	350.37882	5.37342	0.2241430	0.27239523	2.3568741	21	5 28.5	21.6
453369 2009 BQ_{50}	18.1	X	134.04267	176.79019	336.03977	2.70794	0.1711997	0.27044688	2.3681801	21	7 27.1	21.6
453370 2009 BA_{53}	18.0	X	200.86508	48.53028	17.50366	1.50080	0.1490963	0.27066815	2.3668893	21	6 6.6	21.5
453371 2009 BN_{55}	18.4	X	168.22879	21.14991	75.75650	1.75739	0.1781943	0.26942591	2.3741591	21	6 16.1	22.0
453372 2009 BN_{57}	17.8	X	204.71377	54.98613	12.11679	2.33898	0.1848442	0.27368650	2.3494550	21	6 10.5	21.5
453373 2009 BJ_{74}	17.0	X	183.74264	176.43060	256.14080	9.83826	0.1745380	0.26997180	2.3709575	21	5 29.6	20.7
453374 2009 BJ_{76}	17.8	X	89.73631	66.71593	64.87671	2.17333	0.1391599	0.25768246	2.4457542	21	5 1.3	20.7
453375 2009 BL_{93}	17.5	X	60.86535	30.07697	170.94361	2.13771	0.1735913	0.26167907	2.4207878	21	7 1.8	20.1
453376 2009 BZ_{95}	17.6	X	183.19570	155.90480	301.08001	4.43015	0.1888096	0.27335134	2.3513751	21	6 30.4	21.4
453377 2009 BE_{115}	17.3	X	235.97391	287.26459	120.12028	7.31836	0.1210413	0.27416071	2.3467450	21	6 21.3	20.6
453378 2009 BP_{117}	17.9	X	118.64211	81.94619	73.42393	4.22888	0.0680673	0.26677144	2.3898822	21	7 1.8	21.0
453379 2009 BD_{122}	16.5	X	254.63953	136.27178	147.63957	13.64387	0.1440633	0.24281065	2.5446275	21	1 31.7	20.5
453380 2009 BP_{122}	18.0	X	159.72121	145.41390	307.69518	2.02703	0.1377188	0.26469321	2.4023753	21	5 31.8	21.6
453381 2009 BN_{126}	18.2	X	131.31277	14.06971	115.70455	2.19399	0.1167904	0.26527503	2.3988613	21	6 17.6	21.4
453382 2009 BH_{138}	18.4	X	150.98863	91.42253	13.85503	1.31246	0.1473726	0.26628513	2.3927910	21	6 8.6	21.9
453383 2009 BC_{166}	18.1	X	197.62545	145.26641	276.36322	0.69945	0.1703634	0.26776492	2.3839671	21	5 28.4	21.7
453384 2009 BD_{180}	18.3	X	136.93629	282.75435	250.75746	0.57937	0.1243189	0.27399939	2.3476660	21	8 23.1	21.8
453385 2009 BB_{189}	17.7	X	177.26721	44.04282	62.40206	6.10711	0.1928291	0.27356641	2.3501425	21	7 7.6	21.5
453386 2009 CH_{1}	17.6	X	205.58210	192.32001	64.11607	23.53924	0.0666315	0.38840428	1.8604302	21	—	—
453387 2009 CM_{2}	18.0	X	190.16081	59.62224	65.85979	3.35089	0.1632391	0.27834038	2.3231927	21	8 15.4	21.5
453388 2009 CM_{29}	17.9	X	146.84246	24.34094	104.66152	2.48639	0.1310090	0.26749257	2.3855851	21	7 5.2	21.1
453389 2009 CX_{30}	17.8	X	46.63214	178.94216	15.50861	2.86202	0.1361862	0.25583157	2.4575364	21	5 20.3	20.2
453390 2009 CH_{32}	18.2	X	120.86407	184.00010	1.79230	2.38254	0.1593271	0.27017406	2.3697741	21	8 25.7	21.6
453391 2009 CQ_{35}	17.5	X	251.19975	258.33810	102.99294	7.68054	0.1211597	0.26715139	2.3876157	21	5 9.7	20.9
453392 2009 CB_{51}	16.6	X	254.78824	267.15255	335.00551	12.04097	0.2353272	0.23148241	2.6269837	21	—	—
453393 2009 CA_{58}	17.5	X	198.24605	208.68947	199.37115	5.32246	0.2413234	0.26402146	2.4064485	21	5 12.0	21.6
453394 2009 DT_{23}	17.7	X	175.45680	55.86027	62.23826	3.38342	0.1568879	0.27031192	2.3689683	21	7 21.4	21.4
453395 2009 DB_{25}	15.3	X	127.84952	114.68860	121.29162	2.42196	0.1111922	0.12410850	3.9804762	21	10 18.6	21.3
453396 2009 DT_{28}	17.1	X	319.15705	240.12484	344.24694	14.38561	0.0417432	0.24266531	2.5456435	21	2 16.2	20.4
453397 2009 DM_{32}	18.1	X	108.84158	44.78765	119.70104	1.82925	0.1288210	0.26169789	2.4206718	21	7 9.9	21.3
453398 2009 DM_{51}	18.0	X	189.90273	61.94157	20.08588	5.92684	0.2218217	0.26767199	2.3845189	21	6 16.1	22.0
453399 2009 DK_{112}	17.6	X	324.12739	73.09228	157.00363	11.60066	0.0991633	0.24479761	2.5308395	21	2 17.9	20.7
453400 2009 DU_{112}	18.0	X	95.35281	38.11703	127.93269	2.11294	0.1217315	0.26134267	2.4228648	21	6 23.7	21.2
453401 2009 DZ_{139}	18.1	X	210.18452	240.53007	242.32840	3.63089	0.1762359	0.28084516	2.3093589	21	8 27.8	21.6
453402 2009 DP_{142}	18.5	X	144.76061	106.26265	14.07374	1.82133	0.1826671	0.26351372	2.4095387	21	6 24.9	22.3
453403 2009 ED_{15}	17.8	X	160.42133	325.19620	149.20797	2.89619	0.1251059	0.26649020	2.3915633	21	6 29.6	21.3
453404 2009 EE_{15}	17.6	X	198.07672	69.52174	349.83302	21.58681	0.2835520	0.26774690	2.3840741	21	5 16.7	22.3
453405 2009 FV_{21}	17.5	X	132.22473	152.35666	17.51332	11.80708	0.1792868	0.26731090	2.3866658	21	8 22.1	21.4
453406 2009 FH_{56}	16.4	X	121.13817	304.72860	276.84798	21.95444	0.2041928	0.27355568	2.3502040	21	10 2.4	20.8
453407 2009 FL_{58}	17.0	X	191.13992	208.94929	163.13716	1.56938	0.1584001	0.24509040	2.5288235	21	3 22.3	21.0
453408 2009 FE_{74}	17.5	X	143.87240	115.40285	97.39509	5.32321	0.1662047	0.27642722	2.3338997	21	10 24.4	21.2
453409 2009 FA_{77}	17.6	X	328.92281	356.37613	216.50081	11.34473	0.0950584	0.23492789	2.6012355	21	1 31.9	21.2
453410 2009 GK_{2}	16.0	X	212.88907	155.18233	67.97330	12.01864	0.1632343	0.21203641	2.7852387	21	12 28.9	20.3
453411 2009 GH_{3}	16.6	X	100.61395	313.01026	285.59348	22.44095	0.2609684	0.27023981	2.3693897	21	10 9.3	21.1
453412 2009 HG_{15}	17.4	X	283.34671	215.56006	66.46343	6.66563	0.1012059	0.24170528	2.5523797	21	3 9.8	21.0
453413 2009 HT_{24}	16.6	X	144.08897	208.99519	62.15626	17.57399	0.2091734	0.20192593	2.8774513	21	12 20.7	21.7
453414 2009 HE_{49}	16.6	X	168.25786	198.50282	104.85963	15.73685	0.1746359	0.21196497	2.7858645	21	—	—
453415 2009 HO_{57}	17.5	X	125.30107	13.19116	205.69794	8.43612	0.1611205	0.27153196	2.3618669	21	10 11.2	21.2
453416 2009 HK_{66}	16.8	X	265.61176	180.52215	90.41708	15.96917	0.1068477	0.22962212	2.6411530	21	2 4.4	20.9
453417 2009 HM_{69}	17.5	X	339.15413	1.22424	213.17353	13.65437	0.1206775	0.23747958	2.5825686	21	2 12.4	21.0
453418 2009 HE_{78}	17.9	X	315.14077	164.20439	103.57108	2.42545	0.1425281	0.24343537	2.5402723	21	3 23.3	21.0
453419 2009 HP_{80}	17.8	X	101.83016	87.62262	92.52119	6.95817	0.1536513	0.26028009	2.4294544	21	7 27.2	21.1
453420 2009 HB_{97}	16.3	X	302.77644	140.92152	98.68924	29.92797	0.2301244	0.23199225	2.6231335	21	1 18.6	20.3
453421 2009 HP_{102}	16.7	X	205.42932	239.76442	66.58527	14.35631	0.0787792	0.22365828	2.6878977	21	1 17.2	20.9
453422 2009 JV_{1}	17.1	X	33.21659	108.87341	101.48083	14.93934	0.1188050	0.24747069	2.5125818	21	5 23.3	19.9
453423 2009 JB_{7}	16.8	X	243.31905	166.10632	127.86240	7.21566	0.1562051	0.22818493	2.6522314	21	2 4.7	21.1
453424 2009 JM_{8}	17.2	X	299.84542	146.18571	95.56583	9.27365	0.0275939	0.23231607	2.6206954	21	2 17.6	20.8
453425 2009 JO_{11}	16.7	X	111.99166	224.50112	220.17212	21.39231	0.0504619	0.23506593	2.6002170	21	3 11.4	20.6
453426 2009 JV_{13}	17.2	X	334.99379	315.04600	238.96864	10.75835	0.1155466	0.22905625	2.6455011	21	1 15.4	20.8
453427 2009 KO_{2}	16.5	X	202.19756	214.60291	112.09475	15.27363	0.0887595	0.22575430	2.6712346	21	2 7.6	20.6
453428 2009 KA_{22}	16.6	X	0.25326	111.98258	98.62647	28.58776	0.2592105	0.24033063	2.5621033	21	3 16.4	19.6
453429 2009 KW_{25}	16.6	X	214.31984	174.72265	83.56687	16.29591	0.1220783	0.21335138	2.7737825	21	—	—
453430 2009 PU	16.0	X	68.18118	348.72604	6.54321	9.62370	0.3162610	0.18258534	3.0772217	21	—	—
453431 2009 PP_{1}	17.4	X	351.79187	207.36707	307.09598	17.70844	0.0783277	0.37359803	1.9092655	21	—	—
453432 2009 PQ_{8}	15.6	X	83.91732	301.85931	336.18309	15.62642	0.2056364	0.17493407	3.1663077	21	10 31.3	20.8
453433 2009 PX_{8}	15.6	X	75.00292	189.77938	148.51329	9.92728	0.3030055	0.18250470	3.0781280	21	—	—
453434 2009 QA_{6}	17.6	X	24.50902	157.86722	279.41721	17.77365	0.0564812	0.36040787	1.9555693	21	—	—
453435 2009 QA_{12}	15.8	X	358.09314	211.55994	152.14515	8.87419	0.1005033	0.16944628	3.2343079	21	10 19.3	19.9
453436 2009 QF_{15}	16.4	X	27.47935	36.54529	328.90037	2.38093	0.1782404	0.17434577	3.1734265	21	12 11.6	20.5
453437 2009 QT_{29}	16.1	X	52.84862	42.11183	289.36212	7.91319	0.0947375	0.17473880	3.1686661	21	11 20.7	20.7
453438 2009 QK_{30}	16.5	X	86.98919	94.41573	222.84264	16.34952	0.3464457	0.18428170	3.0583081	21	—	—
453439 2009 QG_{44}	17.0	X	82.50091	82.17582	287.07269	2.74604	0.1024639	0.18878393	3.0094886	21	—	—
453440 2009 QX_{48}	16.1	X	67.72980	281.70646	59.22039	1.44872	0.1770782	0.18046151	3.1013181	21	12 31.8	20.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
453441 2009 QL_{52}	16.3	X	55.92374	190.94857	173.64175	17.17634	0.2446707	0.18059830	3.0997520	21	—	—
453442 2009 QH_{53}	16.7	X	120.24785	300.44346	336.97440	9.47970	0.0909739	0.17976343	3.1093419	21	11 30.3	21.7
453443 2009 QN_{58}	17.2	X	53.22148	232.01638	133.18918	2.18580	0.1787173	0.18009148	3.1055649	21	—	—
453444 2009 QR_{62}	16.8	X	65.66304	155.91848	195.40764	4.56152	0.1405919	0.18178152	3.0862864	21	—	—
453445 2009 RK_{5}	15.2	X	52.88770	345.64049	339.79582	28.03467	0.1668184	0.17410821	3.1763124	21	11 13.4	20.2
453446 2009 RY_{8}	16.6	X	76.92625	123.58108	211.88474	2.57957	0.2073541	0.17972942	3.1097342	21	—	—
453447 2009 RR_{11}	17.1	X	55.80576	342.89761	22.01106	1.56216	0.1728391	0.17939915	3.1135497	21	—	—
453448 2009 RA_{13}	16.6	X	33.28872	198.35976	186.07132	16.67396	0.1098746	0.17735674	3.1374074	21	—	—
453449 2009 RC_{18}	16.2	X	32.57587	31.71859	19.47856	16.94731	0.2098970	0.18097404	3.0954600	21	—	—
453450 2009 RQ_{32}	15.9	X	47.02850	99.07000	301.95729	13.45964	0.2500721	0.18398833	3.0615583	21	—	—
453451 2009 RU_{40}	16.2	X	51.34652	104.71098	234.00488	8.40663	0.0600973	0.17224623	3.1991621	21	11 23.8	20.5
453452 2009 RC_{45}	16.2	X	0.30356	54.26127	8.16662	11.15039	0.0332566	0.17760593	3.1344721	21	12 28.5	20.7
453453 2009 RQ_{70}	17.1	X	17.77608	12.40417	56.01448	1.57359	0.1683442	0.18169289	3.0872901	21	—	—
453454 2009 RF_{75}	16.1	X	46.47006	137.63608	233.48626	14.06712	0.2821213	0.17913540	3.1166051	21	—	—
453455 2009 SF_{13}	16.7	X	56.63407	40.00014	345.88357	5.81896	0.1605562	0.18498017	3.0506047	21	—	—
453456 2009 SX_{24}	16.8	X	93.83384	75.75479	256.26174	3.22251	0.1292429	0.18364584	3.0653636	21	—	—
453457 2009 ST_{26}	16.5	X	306.33424	89.16793	6.20816	6.21025	0.0292698	0.17444905	3.1721738	21	11 26.5	20.9
453458 2009 ST_{55}	16.3	X	61.93272	5.88609	338.91200	8.71345	0.0811720	0.17503505	3.1650898	21	12 16.7	20.9
453459 2009 SE_{58}	16.7	X	100.75318	70.62743	259.75449	5.42719	0.1569310	0.18184849	3.0855287	21	—	—
453460 2009 ST_{83}	16.5	X	85.14648	301.16015	25.05640	1.86637	0.2311854	0.18278672	3.0749611	21	—	—
453461 2009 SJ_{98}	15.5	X	90.79532	67.77541	298.52343	16.04529	0.2165481	0.18650539	3.0339503	21	—	—
453462 2009 SK_{100}	16.0	X	33.77046	137.68516	260.27671	11.33145	0.0304367	0.18419424	3.0592762	21	—	—
453463 2009 SC_{111}	16.9	X	141.24028	42.00173	250.98467	5.13622	0.1945037	0.18739972	3.0242899	21	—	—
453464 2009 SK_{111}	16.6	X	75.00442	27.93804	295.84907	4.84918	0.1054285	0.17623235	3.1507380	21	12 9.9	21.3
453465 2009 SN_{114}	16.6	X	93.78810	135.92865	195.70443	18.04237	0.2905350	0.18431139	3.0579797	21	—	—
453466 2009 SY_{118}	17.0	X	179.92824	141.91393	247.50582	2.49484	0.0412931	0.21277484	2.7787909	21	3 30.3	20.9
453467 2009 SL_{148}	17.2	X	64.77804	157.87588	208.85265	1.53355	0.0990964	0.17958949	3.1113493	21	—	—
453468 2009 SG_{160}	16.7	X	161.00042	159.00341	214.93066	11.49967	0.0242860	0.20287723	2.8684493	21	2 13.7	21.0
453469 2009 SX_{161}	16.5	X	78.76648	116.71847	223.52603	3.58871	0.2003450	0.18364258	3.0653998	21	—	—
453470 2009 SO_{174}	16.3	X	71.53710	3.83433	337.63526	10.24132	0.2186574	0.18025342	3.1037045	21	—	—
453471 2009 SS_{188}	16.2	X	323.85335	33.80017	53.18744	12.06467	0.0879837	0.17197344	3.2025442	21	12 6.8	20.3
453472 2009 SQ_{191}	16.7	X	78.26969	143.31496	206.04304	9.02636	0.0973763	0.18171266	3.0870661	21	—	—
453473 2009 SJ_{208}	17.2	X	8.24071	186.12571	211.73415	4.23831	0.1755536	0.17301820	3.1896390	21	12 22.1	21.0
453474 2009 SL_{208}	15.9	X	197.84760	188.10007	13.22155	12.40302	0.0369917	0.17277682	3.1926090	21	11 19.9	20.8
453475 2009 SE_{213}	16.7	X	97.59746	185.62112	195.11622	8.57289	0.1897354	0.19024511	2.9940592	21	1 4.5	20.8
453476 2009 SE_{214}	16.6	X	126.20325	102.76062	192.54450	10.79895	0.0759235	0.17916865	3.1162195	21	12 27.3	21.5
453477 2009 SN_{216}	16.9	X	27.99376	219.29380	179.00243	5.51164	0.0524367	0.18079587	3.0974933	21	—	—
453478 2009 SQ_{225}	16.0	X	30.88776	147.20286	248.84782	21.34820	0.2163129	0.17937694	3.1138066	21	—	—
453479 2009 SN_{235}	15.6	X	72.33667	276.40264	63.05954	26.65647	0.2984332	0.17346970	3.1841019	21	—	—
453480 2009 SU_{242}	15.8	X	47.73472	50.65267	311.52700	6.26358	0.3699750	0.17637800	3.1490032	21	—	—
453481 2009 SS_{249}	16.4	X	47.48051	358.16194	356.52983	4.42973	0.1450865	0.17361771	3.1822921	21	12 19.9	20.9
453482 2009 SN_{254}	16.4	X	7.62119	224.17970	182.28055	11.02117	0.1695480	0.17391410	3.1786754	21	12 30.7	20.5
453483 2009 SP_{258}	16.4	X	355.31104	255.11936	127.25815	3.15131	0.0702961	0.16892264	3.2409884	21	11 4.3	20.5
453484 2009 SO_{275}	17.2	X	20.67582	338.81321	74.96677	2.26871	0.1655259	0.17957574	3.1115081	21	—	—
453485 2009 SM_{286}	15.6	X	220.06448	10.75383	237.96328	9.98559	0.0579914	0.18956455	3.0012210	21	—	—
453486 2009 SN_{287}	16.5	X	58.17894	168.66684	239.19351	6.60081	0.1255142	0.18596906	3.0397807	21	—	—
453487 2009 SS_{289}	16.9	X	60.13666	312.79027	66.42609	4.64729	0.2101251	0.18109388	3.0940942	21	—	—
453488 2009 SN_{293}	16.5	X	34.09415	244.59517	191.57723	9.80693	0.0453442	0.19128045	2.9832455	21	—	—
453489 2009 SF_{297}	16.2	X	49.82256	86.89862	315.03742	9.70520	0.2203982	0.18280688	3.0747350	21	—	—
453490 2009 SJ_{309}	17.0	X	10.76634	275.85071	181.95958	6.85276	0.0577633	0.19166534	2.9792503	21	—	—
453491 2009 SP_{327}	16.9	X	13.47598	223.32655	181.19488	10.11984	0.0878294	0.17544806	3.1601207	21	12 27.9	21.2
453492 2009 SD_{341}	15.7	X	224.34852	162.47731	25.21544	18.05066	0.1610219	0.17749670	3.1357580	21	11 19.2	20.7
453493 2009 SB_{342}	16.4	X	333.77876	268.01556	210.18084	8.65069	0.0479013	0.18313608	3.0710492	21	—	—
453494 2009 SM_{342}	16.5	X	335.12039	135.96481	359.00871	6.89794	0.1336205	0.19023722	2.9941420	21	—	—
453495 2009 SQ_{343}	16.7	X	81.48644	275.45857	60.71960	5.41480	0.1301065	0.17920319	3.1158190	21	—	—
453496 2009 SQ_{350}	16.5	X	340.14725	46.35022	81.42484	5.14275	0.1297794	0.18420484	3.0591589	21	—	—
453497 2009 SU_{350}	16.5	X	10.49177	51.87845	42.53090	16.91074	0.2189756	0.18247373	3.0784764	21	—	—
453498 2009 TJ_{22}	15.7	X	29.26613	163.74782	240.09027	18.15981	0.1470431	0.17805316	3.1292211	21	—	—
453499 2009 TR_{30}	16.8	X	282.23385	340.40706	178.23336	7.98359	0.0107096	0.18172353	3.0869430	21	—	—
453500 2009 TY_{33}	16.0	X	42.65646	117.06369	247.20915	15.08612	0.2368977	0.17576259	3.1563495	21	—	—
453501 2009 TM_{34}	15.6	X	61.72048	299.10897	47.98619	17.90786	0.1336627	0.17570426	3.1570481	21	12 25.0	20.4
453502 2009 US_{1}	15.2	X	53.03368	145.91134	249.72095	17.60475	0.2326594	0.17964305	3.1107309	21	—	—
453503 2009 UJ_{6}	17.2	X	37.49955	213.32466	163.45772	0.88195	0.1443152	0.17795791	3.1303376	21	—	—
453504 2009 UD_{8}	16.5	X	87.36526	254.16976	42.13661	7.84820	0.0949304	0.17225876	3.1990068	21	11 18.8	21.2
453505 2009 UX_{54}	16.2	X	332.32579	247.09505	219.63367	10.20868	0.1830511	0.17437010	3.1731312	21	—	—
453506 2009 UX_{55}	16.3	X	336.43000	219.34243	227.39061	8.36324	0.1132414	0.17209203	3.2010728	21	12 26.2	20.3
453507 2009 UK_{58}	16.7	X	343.41235	220.93706	253.85223	3.80168	0.1252088	0.17914024	3.1165490	21	—	—
453508 2009 UG_{69}	15.8	X	32.18740	5.28063	42.94777	14.13428	0.1504818	0.17770300	3.1333306	21	—	—
453509 2009 UF_{72}	16.1	X	354.00607	226.97174	238.93064	9.30109	0.2030327	0.17812988	3.1283226	21	—	—
453510 2009 UN_{77}	16.6	X	4.17522	172.72072	278.12925	2.20942	0.1814940	0.17972466	3.1097891	21	—	—
453511 2009 UT_{106}	16.7	X	42.14239	261.93583	97.50160	2.61874	0.1628282	0.17009545	3.2260734	21	12 20.8	21.2
453512 2009 UO_{108}	16.7	X	6.27607	18.19327	55.57332	11.30299	0.2040083	0.17455986	3.1708313	21	—	—
453513 2009 UM_{113}	16.8	X	335.75905	91.29795	26.47864	18.86440	0.2437155	0.17947001	3.1127301	21	—	—
453514 2009 UD_{120}	17.1	X	358.98946	261.74970	164.99045	1.51738	0.1737199	0.17611392	3.1521504	21	—	—
453515 2009 UM_{122}	15.7	X	281.58026	19.85385	56.03471	12.90185	0.0440358	0.15902844	3.3740604	21	10 5.8	20.5
453516 2009 UD_{130}	16.0	X	70.03006	319.38815	60.71185	13.28847	0.2794762	0.18006663	3.1058506	21	—	—
453517 2009 UE_{131}	15.6	X	40.03766	291.17961	76.32821	27.19883	0.2123462	0.17163914	3.2067012	21	—	—
453518 2009 UK_{143}	17.0	X	29.53311	150.17920	226.95121	4.71537	0.1768058	0.17037712	3.2225169	21	12 27.4	21.2
453519 2009 UK_{149}	16.4	X	3.10299	340.69202	90.71406	4.03187	0.0751054	0.17336523	3.1853810	21	—	—
453520 2009 UO_{153}	15.9	X	172.34344	227.23564	31.43163	12.43369	0.1023957	0.17690720	3.1427202	21	12 30.4	21.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
453521 2009 VU_1	16.8	X	39.55915	54.63042	1.33345	21.52483	0.2844928	0.18062732	3.0994200	21	—	—
453522 2009 VK_5	15.8	X	69.54306	74.00060	275.21380	15.18692	0.2501928	0.18158681	3.0884923	21	—	—
453523 2009 VR_{17}	16.9	X	77.14307	254.13472	87.82417	2.37931	0.0917838	0.17516457	3.1635294	21	12 31.9	21.6
453524 2009 VY_{29}	15.9	X	69.84805	336.57622	43.19640	11.95231	0.0796698	0.17841597	3.1249775	21	—	—
453525 2009 VX_{54}	16.1	X	5.04676	187.12205	272.09313	10.27026	0.0581825	0.17583127	3.1555276	21	—	—
453526 2009 VT_{55}	16.6	X	98.37653	268.22642	43.49926	1.69183	0.1727315	0.17797973	3.1300817	21	12 26.4	21.6
453527 2009 VG_{57}	16.2	X	335.45189	22.95008	69.70657	5.47082	0.1408682	0.17177710	3.2049840	21	—	—
453528 2009 VT_{68}	16.2	X	294.58815	119.49209	53.19959	10.78168	0.2053993	0.17322638	3.1870829	21	—	—
453529 2009 VF_{73}	16.8	X	115.92487	153.67236	162.01109	0.68812	0.1686293	0.18330525	3.0691594	21	—	—
453530 2009 VW_{82}	16.7	X	54.25364	20.41513	32.24933	8.29902	0.1020378	0.18590425	3.0404872	21	—	—
453531 2009 WG_{13}	16.1	X	311.64738	99.36540	66.27539	17.87522	0.1165258	0.18220610	3.0814901	21	—	—
453532 2009 WF_{14}	16.2	X	353.49771	48.55959	77.80625	17.81373	0.2067825	0.17738388	3.1370874	21	—	—
453533 2009 WP_{16}	16.4	X	323.66591	267.08379	255.40889	10.31687	0.2259074	0.17818048	3.1277303	21	—	—
453534 2009 WF_{59}	16.8	X	335.65373	354.16981	95.51350	2.94457	0.1915079	0.17061674	3.2194990	21	12 30.7	20.3
453535 2009 WA_{60}	16.2	X	284.50658	91.17267	63.78562	10.13819	0.0455664	0.17471935	3.1689013	21	—	—
453536 2009 WT_{74}	15.3	X	184.36894	169.75002	74.18670	17.75991	0.1027560	0.17099234	3.2147826	21	12 22.8	20.3
453537 2009 WH_{82}	15.8	X	10.81336	138.84892	280.20619	9.40849	0.0266162	0.17242634	3.1969338	21	—	—
453538 2009 WE_{99}	16.6	X	45.38003	162.74648	274.09209	3.59794	0.1504301	0.18520160	3.0481726	21	—	—
453539 2009 WM_{99}	16.4	X	42.36994	141.33115	243.72872	8.46042	0.0730909	0.17438449	3.1729567	21	—	—
453540 2009 WT_{124}	16.3	X	123.26802	294.27766	68.27637	10.69686	0.1169616	0.18591101	3.0404134	21	1 6.4	20.7
453541 2009 WZ_{133}	15.9	X	44.09364	341.43858	65.84086	11.63593	0.0800183	0.17908775	3.1171579	21	—	—
453542 2009 WU_{152}	16.1	X	339.77114	187.40817	290.59486	7.53874	0.1734673	0.17550852	3.1593949	21	—	—
453543 2009 WW_{159}	16.6	X	348.55836	80.03368	43.15138	10.49232	0.2864486	0.17549008	3.1596162	21	—	—
453544 2009 WA_{178}	16.6	X	5.55156	325.61355	87.57755	2.88665	0.0760414	0.17076419	3.2176454	21	12 25.7	20.7
453545 2009 WB_{178}	15.7	X	289.52410	85.35350	61.59627	21.63360	0.0962289	0.17213817	3.2005007	21	12 29.9	20.1
453546 2009 WS_{181}	15.6	X	32.21792	329.45486	77.06568	16.84732	0.0528088	0.17446766	3.1719483	21	—	—
453547 2009 WB_{186}	15.7	X	32.17137	306.01307	112.97836	22.44344	0.2984479	0.18136176	3.0910467	21	—	—
453548 2009 WK_{186}	16.7	X	17.20944	160.18699	253.40870	8.21087	0.0802399	0.17400013	3.1776276	21	—	—
453549 2009 WH_{187}	16.1	X	119.32368	269.09133	48.84489	11.44289	0.0620457	0.17624622	3.1505727	21	—	—
453550 2009 WV_{215}	15.6	X	38.91648	180.92415	265.01087	16.52775	0.2213435	0.18391085	3.0624181	21	—	—
453551 2009 WV_{226}	16.1	X	353.76963	286.00428	223.47319	16.09297	0.2898394	0.18294790	3.0731547	21	—	—
453552 2009 WH_{255}	16.0	X	336.48959	53.95853	84.39923	28.44209	0.2298379	0.17323252	3.1870076	21	—	—
453553 2009 WU_{258}	16.0	X	9.97058	336.58463	98.75475	16.33527	0.1500623	0.17344155	3.1844465	21	—	—
453554 2009 XS_9	16.1	X	17.43841	336.05727	106.91678	16.96075	0.3373830	0.17562558	3.1579908	21	—	—
453555 2009 YL_5	15.6	X	38.32443	137.36748	294.46613	25.89842	0.1618656	0.17301720	3.1896512	21	—	—
453556 2009 YT_7	16.1	X	2.95950	220.59150	287.21439	7.28128	0.1137820	0.18018754	3.1044610	21	1 12.6	20.0
453557 2009 YZ_{19}	15.8	X	46.94841	156.28990	281.30894	8.39296	0.1242323	0.17982591	3.1086216	21	—	—
453558 2010 AD_1	16.1	X	355.44288	220.37692	258.52654	13.21923	0.2443699	0.17478260	3.1681368	21	—	—
453559 2010 AO_{43}	15.3	X	6.42600	173.79431	301.23064	24.37627	0.1525782	0.17374411	3.1807484	21	—	—
453560 2010 AS_{73}	15.5	X	60.73243	130.78778	270.16511	20.61254	0.1306484	0.17698787	3.1417651	21	—	—
453561 2010 AW_{80}	15.6	X	58.11627	327.62849	119.06229	10.80925	0.0827977	0.17716666	3.1396511	21	1 20.7	19.6
453562 2010 AZ_{134}	17.1	X	57.41911	309.74586	94.49876	2.82171	0.1682104	0.18475294	3.0531055	21	—	—
453563 2010 BB	20.3	X	289.71146	28.97243	279.73809	10.02422	0.2774759	1.32701000	0.8201373	21	—	—
453564 2010 BV_{25}	15.4	X	335.27272	12.66036	64.51092	28.42515	0.1361962	0.17149904	3.2084473	21	12 9.9	19.3
453565 2010 BT_{67}	15.7	X	22.59859	315.84315	81.01659	16.77686	0.0636157	0.17397431	3.1779420	21	12 27.5	20.0
453566 2010 CQ_3	18.2	X	161.56450	77.40734	115.80900	4.00162	0.1316014	0.30660049	2.1781485	21	10 19.2	21.3
453567 2010 CK_{36}	18.0	X	214.26800	111.09843	336.99695	8.17144	0.0847521	0.29714719	2.2241033	21	7 27.7	20.9
453568 2010 CZ_{106}	18.3	X	249.44784	89.31186	335.68296	6.78212	0.0776826	0.30189149	2.2007403	21	8 10.3	20.9
453569 2010 CN_{137}	18.3	X	43.80940	51.88148	150.12650	2.79493	0.1285977	0.28123423	2.3072285	21	5 25.2	20.4
453570 2010 DJ_6	18.1	X	117.81821	271.84813	257.07656	1.11280	0.1067414	0.28976847	2.2617015	21	7 24.7	21.2
453571 2010 EZ_{12}	15.7	X	78.73608	113.60660	267.43433	12.36629	0.0919374	0.17685787	3.1433045	21	—	—
453572 2010 EH_{74}	17.7	X	19.87512	135.09316	129.10146	4.83309	0.1564335	0.28425234	2.2908678	21	7 19.7	19.4
453573 2010 FN_9	17.5	X	17.73834	143.73336	89.98936	6.40476	0.1754385	0.27523503	2.3406344	21	5 25.0	19.2
453574 2010 FB_{29}	17.0	X	25.74407	62.48294	199.98018	8.08957	0.1834947	0.28470080	2.2884614	21	7 31.1	19.0
453575 2010 FE_{87}	17.8	X	337.14236	75.04298	198.01202	3.01091	0.1438111	0.27092120	2.3654153	21	5 1.1	20.0
453576 2010 GV_5	18.0	X	73.60679	132.24391	95.50600	0.50568	0.1899757	0.28676077	2.2774887	21	9 2.3	20.9
453577 2010 GU_{65}	17.8	X	57.23329	90.06751	148.11687	3.57104	0.1768053	0.28441811	2.2899775	21	8 22.7	20.3
453578 2010 GF_{127}	17.2	X	301.37662	231.21057	97.89407	8.14506	0.1900819	0.27072686	2.3665471	21	5 18.4	20.0
453579 2010 GR_{140}	17.8	X	357.89053	244.82407	27.63872	4.42693	0.0696320	0.27729388	2.3290342	21	6 14.3	20.3
453580 2010 HV_{37}	17.1	X	203.00931	180.62649	155.01247	6.87532	0.1298286	0.23696820	2.5862827	21	2 16.5	21.0
453581 2010 HQ_{54}	16.0	X	48.12139	342.07716	144.51793	6.05032	0.1035276	0.18311423	3.0712934	21	2 25.7	19.6
453582 2010 HK_{61}	16.8	X	200.23002	226.71745	84.42271	29.76149	0.3079784	0.22934992	2.6432424	21	1 21.8	22.0
453583 2010 HG_{71}	16.3	X	177.27182	71.21105	269.24331	17.80137	0.1609227	0.22983504	2.6395216	21	1 26.7	20.7
453584 2010 HK_{79}	17.7	X	16.91361	52.74392	187.13325	5.08062	0.1872948	0.27301726	2.3532929	21	6 3.3	19.4
453585 2010 HX_{97}	17.2	X	221.80202	149.01556	158.17776	12.85096	0.1834273	0.23470712	2.6028664	21	1 29.7	21.6
453586 2010 JD_{72}	17.7	X	97.98388	342.09752	125.41564	7.66968	0.0598224	0.26135104	2.4228130	21	3 30.4	20.7
453587 2010 JO_{91}	16.6	X	201.49840	13.43353	287.98313	11.22527	0.2788562	0.22785911	2.6547591	21	1 10.7	21.3
453588 2010 JM_{94}	17.3	X	161.24473	150.03501	173.85145	15.22262	0.3139241	0.22070670	2.7118086	21	1 9.8	22.2
453589 2010 JP_{118}	17.8	X	350.50288	70.43680	188.50691	2.21757	0.1743106	0.26777089	2.3839317	21	5 2.2	19.8
453590 2010 JT_{131}	16.8	X	223.23288	122.33394	172.51977	14.85756	0.1888917	0.23191486	2.6237170	21	1 16.3	21.4
453591 2010 KL_{21}	17.1	X	38.98221	264.06663	336.21115	10.13994	0.1734927	0.28539123	2.2847690	21	7 26.7	19.2
453592 2010 KK_{57}	16.4	X	192.67683	165.20983	155.74655	13.92344	0.1657348	0.22781789	2.6550793	21	1 22.1	20.9
453593 2010 LH_1	17.2	X	303.85688	183.78438	98.73455	6.99354	0.2154578	0.25887558	2.4382337	21	3 16.9	20.6
453594 2010 LP_{51}	17.1	X	236.94708	50.23548	241.27137	11.89230	0.1270661	0.23082461	2.6319723	21	1 23.8	21.5
453595 2010 LN_{74}	17.3	X	214.46767	332.62796	347.92362	7.18236	0.1857166	0.23104209	2.6303204	21	2 11.6	21.7
453596 2010 LT_{101}	17.1	X	118.78718	226.41414	128.59831	9.05440	0.3299203	0.21132032	2.7915273	21	1 14.4	21.3
453597 2010 MA_8	16.8	X	99.99811	189.30744	178.63537	8.29127	0.2374518	0.20894865	2.8126110	21	—	—
453598 2010 MW_{84}	16.6	X	137.16097	344.25610	338.53045	9.26089	0.2054877	0.20993207	2.8038204	21	—	—
453599 2010 MA_{99}	17.1	X	172.48598	81.14792	203.20274	9.10237	0.2779772	0.21346205	2.7728237	21	—	—
453600 2010 MS_{106}	17.4	X	78.81511	117.96662	321.75205	6.06347	0.2125074	0.21580605	2.7527090	21	2 19.4	20.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
453601 2010 NF	16.6	X	231.59932	319.38643	313.16998	13.54444	0.1845740	0.23093414	2.6311400	21	—	—
453602 2010 NE_{3}	15.9	X	73.50486	230.23197	273.46557	28.69211	0.2477649	0.22942455	2.6426691	21	5 12.3	19.6
453603 2010 NK_{3}	16.5	X	201.69496	172.03592	140.78475	15.45946	0.2576085	0.23083195	2.6319165	21	1 22.6	21.3
453604 2010 NW_{3}	16.8	X	185.52477	19.08166	310.37668	12.76970	0.1797969	0.22963154	2.6410808	21	1 27.7	20.9
453605 2010 NZ_{5}	16.9	X	229.61196	177.54638	122.78915	8.57539	0.2001727	0.23600972	2.5932803	21	1 29.1	21.2
453606 2010 NX_{11}	16.7	X	124.78791	207.90573	142.73565	10.75277	0.3088830	0.21110144	2.7934565	21	1 12.4	21.0
453607 2010 NM_{17}	17.6	X	137.26877	198.92390	155.57632	5.03373	0.0802076	0.21436955	2.7649927	21	1 1.4	21.5
453608 2010 NC_{75}	16.3	X	317.60141	70.26106	25.35114	9.77031	0.1405859	0.18884687	3.0088198	21	12 9.8	19.9
453609 2010 NH_{112}	17.2	X	118.09818	355.43395	12.71722	4.44089	0.0860788	0.21123672	2.7922638	21	—	—
453610 2010 OY_{54}	16.1	X	69.65676	104.99397	85.68470	27.64562	0.1185180	0.24389844	2.5370559	21	6 20.9	19.1
453611 2010 OX_{59}	16.6	X	174.73953	322.04057	41.06470	12.34091	0.1921122	0.22387123	2.6861929	21	3 6.3	21.2
453612 2010 OR_{88}	16.6	X	30.64054	331.73725	62.39188	14.11523	0.1026511	0.19255106	2.9701071	21	—	—
453613 2010 OL_{93}	17.3	X	126.30604	24.61239	358.76323	6.14044	0.1324876	0.21428350	2.7657329	21	2 2.2	21.2
453614 2010 OL_{126}	16.6	X	343.04689	98.07300	134.63740	22.11297	0.0922174	0.25490457	2.4634910	21	3 28.9	19.9
453615 2010 PO_{9}	17.0	X	191.41715	176.57111	144.35955	13.72691	0.2684737	0.22779912	2.6552251	21	1 25.2	21.8
453616 2010 PS_{9}	17.8	X	219.25522	85.83652	219.06121	4.55704	0.2673774	0.23453906	2.6041097	21	1 24.7	22.6
453617 2010 PV_{58}	16.6	X	98.97465	193.39048	147.21226	22.17739	0.1787335	0.20980383	2.8049628	21	—	—
453618 2010 PE_{61}	16.8	X	154.28143	31.54501	328.16331	6.58816	0.1812516	0.22373094	2.6873157	21	2 5.7	20.8
453619 2010 RD_{3}	16.7	X	156.66248	9.90082	354.46265	12.82600	0.2094094	0.22468172	2.6797291	21	2 18.5	21.0
453620 2010 RM_{5}	16.8	X	98.65388	164.02778	344.50911	7.13779	0.1647299	0.24632249	2.5203838	21	6 9.7	20.3
453621 2010 RH_{22}	16.9	X	141.47644	85.01767	291.80551	9.82935	0.1992346	0.22443048	2.6817286	21	2 12.3	21.1
453622 2010 RS_{39}	16.4	X	104.02168	89.16758	297.42258	11.79513	0.2220080	0.21483718	2.7609789	21	1 20.4	19.9
453623 2010 RN_{61}	16.7	X	14.47396	181.80725	195.74158	10.50754	0.1132752	0.18722171	3.0262066	21	12 3.1	20.6
453624 2010 RB_{80}	17.1	X	210.73643	335.43010	331.52427	2.98427	0.2778462	0.22862141	2.6488546	21	1 23.7	21.9
453625 2010 RQ_{103}	16.6	X	45.47307	97.41731	4.16824	12.94816	0.1701737	0.21220306	2.7837803	21	1 19.2	19.7
453626 2010 RC_{111}	16.8	X	283.24180	231.31305	13.14184	13.38736	0.1325472	0.22627836	2.6671086	21	1 20.9	21.0
453627 2010 RX_{173}	16.9	X	79.09757	96.10833	290.22463	5.42817	0.0682956	0.20892558	2.8128181	21	—	—
453628 2010 SV_{5}	17.1	X	45.28096	84.73803	9.70074	7.81595	0.1258077	0.20854978	2.8161961	21	1 5.8	20.4
453629 2010 SV_{9}	17.1	X	139.30663	172.14480	183.03935	12.40825	0.1139515	0.21615069	2.7497822	21	1 7.5	21.2
453630 2010 SM_{20}	17.2	X	112.75793	41.08791	10.53652	12.66338	0.1640734	0.21915422	2.7246004	21	2 27.5	21.0
453631 2010 SE_{33}	17.2	X	333.08535	119.35645	60.96864	5.91758	0.0566985	0.22026105	2.7154652	21	1 9.2	20.7
453632 2010 SX_{35}	16.6	X	194.64189	344.81327	310.01911	12.86815	0.1764056	0.22169013	2.7037829	21	—	—
453633 2010 TF_{4}	17.1	X	50.97298	206.49419	251.61500	3.84055	0.0531056	0.21592083	2.7517334	21	1 13.1	20.6
453634 2010 TT_{8}	16.2	X	322.25725	97.59259	3.07838	11.80433	0.1040288	0.19450733	2.9501588	21	12 29.2	20.0
453635 2010 TD_{14}	17.7	X	74.07900	134.46688	298.11212	3.17791	0.1853700	0.21331175	2.7741261	21	1 29.6	20.7
453636 2010 TY_{14}	17.6	X	107.40968	186.56073	281.24030	3.46127	0.0493622	0.23270481	2.6177760	21	4 9.2	21.1
453637 2010 TQ_{16}	16.8	X	260.46640	13.96298	245.07940	6.79953	0.2899245	0.22721459	2.6597771	21	1 1.7	21.6
453638 2010 TT_{16}	16.7	X	27.05029	90.07411	1.69887	13.94156	0.1314760	0.20543305	2.8446085	21	—	—
453639 2010 TH_{17}	17.6	X	119.06242	99.97271	272.80423	4.51007	0.1133713	0.21301822	2.7766739	21	1 6.9	21.2
453640 2010 TU_{31}	17.3	X	87.14201	101.33222	4.41226	6.90110	0.2528932	0.22207008	2.7006979	21	4 12.4	20.8
453641 2010 TC_{33}	17.5	X	129.96821	316.92691	56.99771	1.32181	0.0841698	0.21517963	2.7580488	21	1 17.6	21.2
453642 2010 TE_{33}	17.2	X	132.70092	189.70560	186.60113	4.82974	0.0479018	0.21626107	2.7488465	21	1 17.3	21.0
453643 2010 TM_{40}	17.4	X	102.45396	88.48176	293.79281	2.78829	0.1090377	0.21062858	2.7976358	21	—	—
453644 2010 TA_{67}	17.1	X	134.72170	2.83776	353.37466	3.54244	0.0910375	0.21546691	2.7555967	21	1 2.4	21.0
453645 2010 TA_{70}	17.8	X	129.57406	137.71168	230.72615	4.21022	0.0577390	0.21564887	2.7540465	21	1 5.7	21.7
453646 2010 TW_{70}	17.6	X	87.77705	194.75487	212.66747	2.98677	0.0953903	0.21301032	2.7767426	21	1 5.8	21.2
453647 2010 TU_{85}	17.4	X	204.67997	203.26148	121.07234	2.77138	0.0751854	0.22537648	2.6742191	21	2 5.7	21.2
453648 2010 TE_{94}	17.7	X	115.73262	358.81213	31.20500	2.16614	0.1075611	0.21665283	2.7455318	21	1 23.5	21.4
453649 2010 TN_{96}	17.4	X	151.67617	312.76273	48.71852	1.82812	0.0809939	0.21917296	2.7244452	21	1 26.6	21.2
453650 2010 TD_{103}	16.7	X	33.19134	331.96775	33.23975	10.21391	0.0927231	0.19021524	2.9943726	21	12 9.3	20.8
453651 2010 TW_{103}	17.4	X	63.98158	21.05093	68.58994	3.58585	0.1607126	0.21482986	2.7610417	21	2 1.9	20.4
453652 2010 TW_{113}	17.6	X	104.04847	44.80354	315.79887	2.81587	0.3490609	0.20639723	2.8357426	21	1 9.3	21.3
453653 2010 TH_{119}	17.4	X	116.71289	171.45478	216.37085	5.32293	0.1104236	0.21418085	2.7666164	21	1 20.8	21.2
453654 2010 TU_{121}	16.3	X	271.34935	319.51453	164.70828	9.01894	0.0630875	0.18731166	3.0252378	21	11 18.8	20.5
453655 2010 TV_{123}	17.0	X	32.10905	69.50556	37.98971	7.55688	0.1319158	0.21043848	2.7993205	21	—	—
453656 2010 TZ_{123}	17.3	X	136.30733	251.95104	74.85797	3.10990	0.0680959	0.20613981	2.8381029	21	—	—
453657 2010 TX_{140}	17.1	X	355.48356	41.01479	9.25495	10.97726	0.2329951	0.18580886	3.0415276	21	12 27.1	20.5
453658 2010 TA_{146}	17.8	X	96.30898	134.22631	279.88829	2.80066	0.0589162	0.21352322	2.7722942	21	1 21.2	21.4
453659 2010 TC_{148}	17.7	X	95.79589	86.96725	308.26879	4.48832	0.0905097	0.21346452	2.7728024	21	1 1.6	21.2
453660 2010 TZ_{150}	16.7	X	89.15836	45.06150	27.99282	15.80452	0.2099063	0.21351237	2.7723881	21	3 6.9	20.4
453661 2010 TX_{162}	17.2	X	57.00528	44.01091	346.72756	1.50909	0.0742629	0.19955249	2.9002222	21	—	—
453662 2010 TL_{188}	15.4	X	45.90943	252.78418	68.95176	20.81660	0.1500645	0.17958507	3.1114003	21	11 13.9	19.7
453663 2010 UQ_{5}	17.2	X	88.06864	157.52064	255.00479	7.04997	0.1678971	0.21101902	2.7941838	21	1 22.1	20.7
453664 2010 UB_{16}	16.2	X	315.69777	39.32338	41.47468	12.53977	0.1097812	0.18220825	3.0814658	21	11 17.7	20.0
453665 2010 UR_{48}	16.9	X	100.52142	191.31102	220.58588	7.52642	0.2205747	0.21140670	2.7907668	21	2 14.4	20.8
453666 2010 UQ_{50}	16.6	X	72.94375	98.71604	298.06316	10.32320	0.1552179	0.20146810	2.8818090	21	—	—
453667 2010 UC_{61}	16.4	X	265.08640	118.08416	1.44371	7.63938	0.1608305	0.17453467	3.1711363	21	10 16.2	20.8
453668 2010 UB_{81}	16.4	X	243.34875	289.68806	46.09855	12.72549	0.1729203	0.23387142	2.6090633	21	3 30.6	20.7
453669 2010 UY_{107}	16.7	X	87.82063	244.27314	252.28060	11.76439	0.1375792	0.22813530	2.6526160	21	5 5.9	20.3
453670 2010 VW_{12}	17.1	X	144.80094	49.03077	294.56472	4.61271	0.0649376	0.20972422	2.8056726	21	—	—
453671 2010 VM_{19}	17.3	X	147.55647	257.95618	86.61278	2.82214	0.1475732	0.20994079	2.8037428	21	1 10.4	21.4
453672 2010 VA_{24}	16.3	X	350.18462	344.17336	54.97568	13.94391	0.1704145	0.17892716	3.1190228	21	11 22.9	19.6
453673 2010 VY_{28}	15.2	X	238.82981	87.16967	52.85167	25.97615	0.2494048	0.17152182	3.2081632	21	10 14.8	20.6
453674 2010 VR_{31}	16.6	X	344.92704	29.42304	61.41898	13.38610	0.1775967	0.18970928	2.9996943	21	—	—
453675 2010 VG_{38}	16.8	X	102.79378	291.86966	109.02189	4.79605	0.0977381	0.20993295	2.8038126	21	1 19.9	20.4
453676 2010 VZ_{42}	17.4	X	19.09339	247.82202	252.33558	4.14349	0.0681483	0.21504975	2.7591591	21	1 20.7	20.8
453677 2010 VQ_{81}	16.7	X	116.85929	155.53797	254.69791	11.34541	0.1711050	0.21222798	2.7835624	21	2 22.4	20.9
453678 2010 VL_{105}	16.8	X	120.69252	310.20275	70.86263	7.41116	0.0432327	0.20853686	2.8163124	21	1 11.0	20.7
453679 2010 VS_{138}	16.6	X	356.69242	337.72865	60.63006	6.97035	0.1495349	0.18139242	3.0906984	21	12 2.8	20.0
453680 2010 VJ_{141}	16.6	X	39.44527	83.01607	71.78967	12.01193	0.1359919	0.21853037	2.7297833	21	3 22.9	19.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
453681 2010 VS_{147}	16.7	X	357.08199	186.66170	218.46497	10.51706	0.1091869	0.18225432	3.0809466	21	12 9.4	20.6
453682 2010 VF_{150}	16.9	X	333.06068	29.13193	74.85035	11.47970	0.1343375	0.18840051	3.0135703	21	—	—
453683 2010 VU_{152}	16.1	X	341.50564	331.59384	68.66697	10.47255	0.0334393	0.17686138	3.1432630	21	11 8.6	20.4
453684 2010 VE_{161}	16.8	X	59.34668	121.05474	240.04104	12.02539	0.1806944	0.19071520	2.9891372	21	—	—
453685 2010 VZ_{175}	16.0	X	329.31166	21.40196	23.01915	11.80468	0.0889358	0.17517131	3.1634482	21	10 23.6	19.8
453686 2010 VR_{188}	16.9	X	114.32998	131.36958	241.12847	10.06260	0.1232993	0.20484486	2.8500513	21	1 2.8	20.9
453687 2010 VY_{190}	19.2	X	147.20445	142.89396	241.83721	19.97230	0.3090500	0.40494607	1.8094139	21	2 7.9	21.8
453688 2010 VD_{193}	16.1	X	314.33108	46.48477	95.34485	13.01078	0.0984506	0.18242155	3.0790634	21	—	—
453689 2010 VH_{204}	16.2	X	322.26124	276.84252	242.33075	13.82139	0.0974963	0.20328465	2.8646154	21	—	—
453690 2010 VB_{205}	15.6	X	235.85579	310.24948	228.15770	26.30157	0.1607010	0.18119774	3.0929118	21	11 24.9	20.2
453691 2010 VF_{218}	16.9	X	177.85631	46.70749	257.66428	7.59310	0.1366316	0.21085550	2.7956283	21	—	—
453692 2010 VG_{219}	17.6	X	107.88537	143.21507	252.96494	8.09218	0.1641414	0.21290417	2.7776654	21	1 27.0	21.4
453693 2010 WT_{12}	15.6	X	40.59037	246.28060	67.37572	17.76202	0.1237776	0.17303972	3.1893745	21	10 26.1	20.0
453694 2010 WS_{21}	16.3	X	293.03035	206.43832	247.23820	3.35927	0.1308404	0.17474436	3.1685989	21	10 27.4	20.3
453695 2010 WY_{25}	16.6	X	22.89228	133.31176	62.21320	15.80279	0.1470300	0.22094162	2.7098860	21	4 18.3	19.6
453696 2010 WY_{42}	16.5	X	51.54128	59.85610	262.95685	14.05630	0.2447780	0.17988839	3.1079018	21	12 1.5	21.0
453697 2010 WF_{46}	15.9	X	253.45779	79.25215	70.65255	12.74162	0.0207217	0.17883783	3.1200613	21	11 29.9	20.3
453698 2010 WP_{52}	16.2	X	179.65834	206.04084	61.52875	10.56257	0.0465070	0.19111560	2.9849607	21	—	—
453699 2010 WQ_{62}	16.9	X	129.98342	317.15565	78.11904	5.41390	0.0749583	0.21090379	2.7952015	21	2 14.3	20.9
453700 2010 WN_{64}	16.5	X	352.40311	159.14115	261.12562	6.56916	0.1272725	0.18246603	3.0785629	21	12 22.4	20.0
453701 2010 WH_{65}	17.7	X	28.66325	259.46541	255.47904	21.09257	0.0425642	0.40412368	1.8118678	21	1 4.2	19.3
453702 2010 XH_{28}	17.4	X	143.43316	320.68247	259.00682	19.31529	0.0768299	0.35383763	1.9797030	21	11 7.1	20.1
453703 2010 XA_{38}	15.9	X	295.18924	98.02640	86.72262	14.69929	0.0413569	0.18953289	3.0015552	21	—	—
453704 2010 XY_{42}	16.8	X	211.56581	175.13481	196.71745	14.36736	0.2663817	0.23211751	2.6221898	21	4 8.7	21.4
453705 2010 XB_{51}	15.8	X	123.90140	313.42481	28.91863	12.36262	0.0641973	0.19738317	2.9214333	21	—	—
453706 2010 XK_{58}	15.9	X	314.39204	338.29525	99.04438	18.84682	0.1898987	0.17549999	3.1594972	21	11 12.3	19.8
453707 2010 XY_{72}	18.6	X	309.91611	307.02830	34.43338	31.48155	0.2288317	0.81698589	1.1332516	21	4 20.5	17.4
453708 2010 XN_{78}	16.8	X	26.07455	323.73068	102.29410	13.34924	0.1399202	0.19132116	2.9828223	21	—	—
453709 2010 YG	15.9	X	277.70217	242.89067	271.22016	15.07135	0.2145331	0.17732992	3.1377238	21	12 8.9	19.9
453710 2010 YC_{5}	16.2	X	320.07075	61.41522	69.31818	10.55772	0.0877320	0.18390799	3.0624498	21	—	—
453711 2011 AT_{5}	16.5	X	332.82891	40.33705	112.84472	5.23363	0.2078195	0.18110094	3.0940138	21	—	—
453712 2011 AE_{7}	16.6	X	346.20847	195.18480	276.77446	7.05514	0.0595979	0.18549561	3.0449509	21	—	—
453713 2011 AT_{7}	16.5	X	17.98595	286.05035	111.90614	8.21845	0.1654320	0.17852491	3.1237062	21	—	—
453714 2011 AF_{10}	15.7	X	41.50713	105.13063	293.57172	8.96115	0.0542067	0.18123449	3.0924936	21	—	—
453715 2011 AZ_{11}	15.9	X	39.16699	101.89278	304.04148	11.37416	0.1948838	0.18518280	3.0483789	21	—	—
453716 2011 AO_{12}	17.0	X	350.20516	247.41814	222.05464	2.12915	0.1663132	0.18506348	3.0496891	21	—	—
453717 2011 AR_{32}	17.4	X	35.21776	46.41928	17.85249	3.00310	0.1520601	0.18759214	3.0222215	21	—	—
453718 2011 AZ_{40}	16.4	X	16.85746	333.17431	96.27426	10.97913	0.0372045	0.18115842	3.0933592	21	—	—
453719 2011 AU_{43}	15.8	X	285.28131	204.46736	308.73936	15.85581	0.2012968	0.17366377	3.1817294	21	12 21.4	19.9
453720 2011 AP_{58}	16.4	X	297.08598	11.48376	122.83464	10.46899	0.0434625	0.17547092	3.1598462	21	—	—
453721 2011 AA_{65}	16.4	X	271.32195	33.73595	111.76547	11.16549	0.0906952	0.17226790	3.1988937	21	12 7.5	20.8
453722 2011 AB_{75}	17.6	X	78.34531	95.31304	326.99769	18.30716	0.1093145	0.38070933	1.8854154	21	—	—
453723 2011 AZ_{77}	17.8	X	71.89524	343.65316	124.10499	24.67657	0.0344839	0.38983283	1.8558824	21	1 13.1	19.3
453724 2011 BC_{2}	17.4	X	350.59073	30.90452	55.20505	1.57599	0.1640908	0.18064083	3.0992654	21	—	—
453725 2011 BA_{4}	16.3	X	14.70156	290.58702	118.63502	10.55937	0.0770381	0.17676257	3.1444341	21	—	—
453726 2011 BU_{8}	16.0	X	43.20189	245.42199	113.66934	13.64853	0.1016547	0.17099449	3.2147557	21	12 14.8	20.5
453727 2011 BC_{9}	17.1	X	314.75434	27.71366	80.84091	3.40929	0.1731574	0.17525191	3.1624783	21	12 17.3	20.6
453728 2011 BL_{11}	15.9	X	291.88419	215.70376	336.93528	14.42153	0.2282196	0.18115775	3.0933669	21	—	—
453729 2011 BO_{24}	18.8	X	30.90726	178.62951	91.48512	20.36511	0.2779268	0.60756521	1.3806199	21	11 15.4	20.0
453730 2011 BE_{43}	15.4	X	119.26392	263.25752	98.49722	16.94966	0.0651569	0.18584971	3.0410820	21	—	—
453731 2011 BH_{54}	16.1	X	303.11128	355.17083	130.19039	18.20777	0.2337684	0.17378373	3.1802649	21	12 14.1	19.8
453732 2011 BN_{55}	16.2	X	171.94380	35.51030	281.73509	10.83685	0.0579156	0.19101021	2.9860586	21	—	—
453733 2011 BP_{64}	15.8	X	265.16968	75.24425	127.94078	18.48962	0.1690205	0.18003131	3.1062568	21	—	—
453734 2011 BG_{67}	17.1	X	356.47345	210.76307	267.34967	4.08944	0.2230259	0.18579503	3.0416786	21	—	—
453735 2011 BJ_{67}	15.9	X	74.26525	110.41548	284.57009	9.78302	0.0387017	0.18415457	3.0597155	21	—	—
453736 2011 BJ_{93}	16.0	X	53.41495	92.21789	306.66715	8.29819	0.0944141	0.17938325	3.1137336	21	—	—
453737 2011 BM_{117}	16.3	X	295.05623	49.80529	84.65511	11.59527	0.0803518	0.17663517	3.1459460	21	12 26.5	20.4
453738 2011 BB_{125}	16.7	X	334.22663	111.40857	299.37569	6.60780	0.1400884	0.16915997	3.2379563	21	11 4.6	20.6
453739 2011 BD_{125}	16.5	X	145.28980	215.35185	119.43000	10.24731	0.0384152	0.19037876	2.9926578	21	—	—
453740 2011 BD_{135}	16.6	X	246.58748	109.85223	102.51847	6.59898	0.0899684	0.18108520	3.0941930	21	—	—
453741 2011 BQ_{141}	16.3	X	89.11264	244.30079	98.91304	10.51741	0.0607967	0.17760401	3.1344946	21	—	—
453742 2011 BT_{143}	16.5	X	128.33797	214.60950	164.66661	9.32271	0.1327032	0.19343848	2.9610163	21	1 31.1	20.9
453743 2011 BO_{161}	16.1	X	9.04956	26.00601	65.07769	10.86054	0.1263652	0.18437407	3.0572866	21	—	—
453744 2011 BB_{162}	16.7	X	31.08531	261.10742	125.57889	10.89208	0.2164038	0.17690291	3.1427709	21	—	—
453745 2011 CK_{10}	16.5	X	359.66980	21.89138	107.54435	7.56728	0.1920448	0.18803633	3.0174601	21	—	—
453746 2011 CM_{11}	16.3	X	25.59962	116.99735	312.71285	9.85029	0.0647706	0.18033559	3.1027617	21	—	—
453747 2011 CU_{27}	16.7	X	302.29345	110.00382	39.35355	2.36185	0.1405931	0.17670388	3.1451304	21	—	—
453748 2011 CC_{36}	16.2	X	67.47990	79.50396	325.33079	15.37973	0.1351065	0.18764794	3.0216224	21	—	—
453749 2011 CN_{37}	16.6	X	325.09029	34.59488	108.74125	4.54252	0.0828924	0.18195367	3.0843395	21	—	—
453750 2011 CZ_{52}	16.0	X	345.96267	130.01100	333.19299	8.11782	0.1147487	0.17779424	3.1322585	21	—	—
453751 2011 CJ_{68}	15.8	X	210.84580	349.75062	286.45759	14.35086	0.0818630	0.18697066	3.0289149	21	—	—
453752 2011 CU_{69}	16.2	X	359.65596	110.29419	333.02510	12.50202	0.2129302	0.18074130	3.0981167	21	—	—
453753 2011 CH_{72}	16.4	X	313.78764	237.62443	263.66866	6.42688	0.1885290	0.17797174	3.1301755	21	—	—
453754 2011 CV_{76}	16.0	X	330.01660	261.19800	345.90765	13.48913	0.1350652	0.20488521	2.8496771	21	3 20.5	19.6
453755 2011 CO_{83}	16.4	X	346.05155	154.04582	306.20027	8.49012	0.1674747	0.17681881	3.1437674	21	—	—
453756 2011 DP_{10}	17.8	X	352.21946	84.52575	113.97911	24.88923	0.1161993	0.38715151	1.8644414	21	1 9.7	19.2
453757 2011 DC_{43}	16.9	X	1.27346	230.17627	196.40316	2.44685	0.2215854	0.17349697	3.1837683	21	—	—
453758 2011 DC_{49}	16.1	X	335.80124	46.57982	156.79798	11.05451	0.1804403	0.18718482	3.0266042	21	1 30.3	20.0
453759 2011 DF_{50}	16.1	X	345.97394	289.73007	204.89938	15.82036	0.2354586	0.18291724	3.0734981	21	—	—
453760 2011 DY_{50}	15.5	X	262.49588	69.44209	153.89724	26.53968	0.1790026	0.17360990	3.1823875	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
453761 2011 EH_{11}	16.2	X	341.45434	321.04151	169.46772	7.45848	0.1323433	0.17814386	3.1281589	21	—	—
453762 2011 EY_{15}	16.2	X	308.00114	38.54363	161.45758	16.48843	0.1982721	0.18179262	3.0861608	21	—	—
453763 2011 EC_{23}	16.0	X	12.74215	84.80128	23.96267	11.83692	0.0748590	0.17891803	3.1191288	21	—	—
453764 2011 EO_{27}	16.8	X	321.58535	52.75531	94.32829	2.54337	0.1378220	0.17551031	3.1593734	21	—	—
453765 2011 ET_{52}	16.5	X	324.62531	63.97349	140.86204	6.80082	0.1452863	0.18498783	3.0505205	21	1 22.8	20.6
453766 2011 EZ_{73}	17.3	X	108.32677	98.01521	331.92189	16.44251	0.1051570	0.38510492	1.8710412	21	1 31.2	18.6
453767 2011 EM_{86}	16.1	X	267.89049	56.70753	162.16377	18.28309	0.2052176	0.17283711	3.1918666	21	—	—
453768 2011 FT_{42}	16.3	X	322.97023	346.29540	179.47302	10.61409	0.1715913	0.17641101	3.1486104	21	—	—
453769 2011 FU_{140}	16.4	X	327.29100	108.64218	33.96282	15.41366	0.2273358	0.17645637	3.1480708	21	—	—
453770 2011 FT_{154}	17.5	X	7.73760	74.73838	39.72814	21.55143	0.0900294	0.36933525	1.9239283	21	—	—
453771 2011 GX_{62}	16.0	X	348.77606	70.83651	110.76643	13.72754	0.1433345	0.18394771	3.0620089	21	1 30.4	19.7
453772 2011 GF_{69}	18.3	X	46.82088	141.35003	157.00919	1.76621	0.2051138	0.32045848	2.1148921	21	11 13.1	20.6
453773 2011 GY_{69}	15.6	X	239.93680	256.53565	27.66970	10.45545	0.0852440	0.17751732	3.1355151	21	2 4.9	20.6
453774 2011 GL_{76}	16.5	X	265.79135	82.75344	175.13027	15.03658	0.1328380	0.17798993	3.1299622	21	1 21.2	21.6
453775 2011 HQ_{5}	17.6	X	66.03584	158.77579	99.51736	8.47195	0.3253785	0.31220338	2.1520102	21	10 28.9	20.9
453776 2011 HZ_{7}	17.5	X	263.62672	134.62489	55.78690	22.15910	0.0740568	0.35308679	1.9825085	21	—	—
453777 2011 HB_{35}	18.1	X	294.39499	303.48539	205.93432	21.04342	0.0788029	0.35124183	1.9894448	21	—	—
453778 2011 JK	18.5	X	295.75481	10.86888	203.34083	6.68599	0.4634905	0.37291945	1.9115809	21	—	—
453779 2011 JW_{9}	13.5	X	6.49892	7.12448	238.29456	17.54860	0.0284419	0.08470464	5.1348913	21	5 30.6	20.2
453780 2011 KH_{6}	18.7	X	335.32251	122.05847	192.22317	1.64163	0.2501087	0.29960041	2.2119456	21	6 15.7	19.6
453781 2011 KD_{20}	16.5	X	343.12850	7.95833	281.56298	21.28402	0.1702121	0.28833983	2.2691661	21	6 4.8	18.7
453782 2011 KY_{35}	18.2	X	22.28367	69.37701	236.38998	6.03151	0.2151092	0.30963576	2.1638906	21	10 14.7	20.0
453783 2011 LR_{18}	17.9	X	346.37054	226.86001	84.00565	4.82251	0.1593945	0.30312649	2.1947587	21	7 22.8	19.3
453784 2011 OT_{26}	17.6	X	343.26736	195.05401	115.65393	8.45819	0.1618102	0.29407607	2.2395612	21	7 13.0	19.2
453785 2011 OO_{33}	18.4	X	55.58334	242.59989	51.97147	1.35043	0.0925730	0.31163538	2.1546243	21	10 31.1	20.9
453786 2011 OE_{41}	17.8	X	316.93051	4.20696	295.79004	3.64952	0.2461664	0.28482183	2.2878130	21	4 13.8	20.5
453787 2011 OV_{44}	17.9	X	242.94819	179.52090	134.93892	7.35443	0.1352637	0.26639839	2.3921128	21	2 26.3	21.4
453788 2011 PY_{3}	17.5	X	259.89412	352.62754	317.10975	7.11027	0.1237477	0.26511828	2.3998067	21	3 7.3	20.9
453789 2011 PH_{11}	13.4	X	292.80665	44.79599	288.82495	22.48417	0.1340170	0.08346481	5.1856170	21	5 29.5	20.3
453790 2011 QA_{45}	18.4	X	249.55177	158.51090	267.47469	6.13720	0.0554260	0.29258886	2.2471438	21	8 11.3	21.2
453791 2011 QY_{48}	17.7	X	253.87612	202.12871	142.82009	6.35324	0.2444412	0.27107426	2.3645247	21	4 9.5	21.5
453792 2011 QS_{55}	18.3	X	27.89272	45.30378	191.90535	4.20617	0.1207504	0.28175338	2.3043934	21	6 17.9	20.3
453793 2011 QM_{63}	17.5	X	199.79329	162.28187	238.35346	4.19795	0.2415962	0.26394491	2.4069137	21	5 2.8	21.7
453794 2011 QF_{65}	18.4	X	232.78777	5.69003	351.13700	3.62978	0.2490181	0.26740870	2.3860838	21	4 3.6	22.5
453795 2011 QC_{70}	17.9	X	46.63756	115.07707	152.35452	6.85789	0.1090801	0.29744843	2.2226015	21	9 9.1	20.1
453796 2011 QC_{73}	18.0	X	244.64271	316.70533	48.49064	1.98354	0.2123209	0.27352684	2.3503692	21	4 26.9	21.5
453797 2011 QW_{87}	17.8	X	30.10740	269.47021	349.89387	7.96447	0.0616584	0.28511260	2.2862573	21	7 23.8	20.3
453798 2011 SH	17.8	X	287.64186	317.70267	343.46097	8.04907	0.1657963	0.27077567	2.3662627	21	3 22.1	21.1
453799 2011 SZ_{8}	17.8	X	306.63766	176.21876	115.53286	2.00472	0.1881317	0.27083321	2.3659275	21	4 1.9	20.7
453800 2011 SN_{13}	17.8	X	355.25894	22.05137	256.81479	5.55763	0.0870966	0.28315764	2.2967684	21	6 19.2	19.9
453801 2011 SP_{18}	18.1	X	156.81728	257.66199	215.62011	7.18097	0.1624075	0.27513004	2.3412298	21	6 25.6	21.7
453802 2011 SN_{21}	17.5	X	204.89760	72.36991	303.71701	9.72483	0.1738191	0.26035865	2.4289657	21	4 1.9	21.7
453803 2011 SO_{21}	17.7	X	270.40793	19.22241	304.53591	2.10211	0.2149554	0.27254145	2.3560310	21	3 27.8	21.1
453804 2011 SH_{35}	17.6	X	214.04154	16.34563	40.09227	1.98405	0.1773368	0.26995430	2.3710601	21	6 5.8	21.1
453805 2011 SJ_{39}	17.8	X	199.79496	317.03340	42.52410	2.70776	0.2295954	0.25552329	2.4595126	21	3 15.5	22.1
453806 2011 SO_{61}	17.9	X	90.66819	4.47245	216.52372	7.94401	0.1346471	0.29617498	2.2289678	21	9 3.6	20.9
453807 2011 SM_{65}	17.4	X	236.59020	120.99190	229.05341	5.14709	0.3130406	0.26595587	2.3947655	21	3 25.9	21.9
453808 2011 SA_{67}	17.4	X	217.60353	161.23865	223.78034	1.92015	0.2029400	0.26450574	2.4035103	21	4 28.8	21.2
453809 2011 SE_{74}	16.8	X	332.89647	348.95260	301.74045	7.58026	0.0923712	0.27796489	2.3252844	21	5 25.4	19.4
453810 2011 SD_{78}	18.2	X	179.52377	169.79676	311.01847	1.60657	0.1726445	0.28001132	2.3139412	21	7 28.4	21.7
453811 2011 SK_{80}	18.5	X	249.59116	112.58794	230.30313	1.71544	0.2173538	0.26839158	2.3802548	21	4 2.3	22.3
453812 2011 SW_{84}	17.4	X	91.93437	314.13253	70.85724	4.15172	0.1103792	0.22710102	2.6606637	21	—	—
453813 2011 SW_{86}	17.6	X	257.94228	154.42783	206.68131	7.25004	0.1096118	0.27160022	2.3614711	21	5 16.6	20.7
453814 2011 SD_{88}	18.0	X	99.37455	79.00380	347.36391	5.56336	0.3093735	0.23748615	2.5825210	21	3 15.2	21.4
453815 2011 SF_{102}	18.9	X	285.75982	1.07263	337.34125	1.66192	0.2364866	0.27911315	2.3189026	21	4 29.8	22.0
453816 2011 SA_{105}	16.9	X	201.16231	147.59210	255.61181	5.94214	0.1417823	0.26233663	2.4167409	21	5 7.6	20.6
453817 2011 SS_{105}	18.0	X	188.29548	268.13875	164.33328	0.90254	0.2049778	0.26210619	2.4181572	21	6 3.2	22.1
453818 2011 SJ_{109}	18.4	X	328.45912	107.08042	189.67737	3.77083	0.1009469	0.27938833	2.3173797	21	5 27.9	20.7
453819 2011 SJ_{117}	17.6	X	211.42732	174.80088	250.83638	4.37433	0.1972408	0.27103357	2.3647614	21	6 14.7	21.5
453820 2011 SL_{117}	17.6	X	232.18869	49.28342	315.41359	4.43828	0.1523049	0.26493191	2.4009320	21	4 16.5	21.3
453821 2011 SJ_{123}	17.9	X	245.77040	266.04502	81.78884	3.64212	0.1907221	0.26483252	2.4015327	21	4 9.5	21.6
453822 2011 SY_{123}	17.0	X	61.34051	57.73906	30.37543	17.38642	0.1784103	0.23125043	2.6287403	21	1 28.9	20.1
453823 2011 SO_{124}	18.3	X	164.10626	24.95005	28.79798	4.35217	0.2009358	0.25551768	2.4595486	21	4 19.4	22.2
453824 2011 SF_{131}	17.4	X	65.16624	5.32507	82.99295	3.57525	0.0654349	0.23770539	2.5809328	21	1 17.4	20.3
453825 2011 SS_{131}	18.1	X	204.10434	186.85004	192.08994	5.87699	0.1449858	0.25761861	2.4461583	21	4 10.8	21.9
453826 2011 SX_{133}	17.2	X	204.50197	3.65384	37.99047	8.06043	0.1242943	0.26363039	2.4088277	21	5 9.3	20.7
453827 2011 SN_{137}	17.9	X	217.12166	66.28067	329.09825	1.86133	0.1907170	0.26818792	2.3814597	21	5 11.3	21.7
453828 2011 SU_{144}	17.3	X	232.58896	327.64015	20.30650	7.95419	0.1877189	0.26281514	2.4138065	21	3 28.3	21.0
453829 2011 SF_{146}	18.1	X	180.44348	115.26239	327.45021	1.12794	0.1825788	0.26567119	2.3964760	21	6 8.9	21.9
453830 2011 SK_{146}	17.7	X	228.33273	358.15757	349.98559	1.06711	0.1978466	0.26026770	2.4295315	21	3 23.4	21.7
453831 2011 SH_{163}	17.9	X	80.32691	197.89282	252.18838	6.33340	0.1757527	0.23948832	2.5681073	21	2 22.2	20.9
453832 2011 SE_{165}	17.4	X	270.43321	331.90036	33.60330	6.93447	0.1311383	0.27492370	2.3424011	21	6 2.4	20.5
453833 2011 SL_{170}	17.8	X	290.31069	315.01323	11.62117	2.74656	0.2050995	0.27354190	2.3502829	21	4 24.2	21.0
453834 2011 SM_{182}	17.3	X	201.45735	203.69634	213.90881	8.34230	0.2334019	0.26484937	2.4014309	21	5 26.5	21.4
453835 2011 SO_{182}	18.6	X	148.92579	29.78825	11.96781	8.26906	0.1950801	0.24736313	2.5133101	21	3 22.6	22.4
453836 2011 SD_{213}	18.4	X	221.70143	57.68690	319.76629	0.58258	0.1949184	0.26432767	2.4045896	21	4 22.9	22.3
453837 2011 SP_{216}	17.9	X	227.00065	329.47399	24.65174	3.70646	0.1419415	0.26246039	2.4159811	21	4 1.2	21.6
453838 2011 SQ_{240}	18.4	X	192.73350	229.05390	174.48132	1.20721	0.1780061	0.26359008	2.4090732	21	5 1.2	22.2
453839 2011 SM_{249}	17.8	X	243.56112	311.30390	77.60020	6.04065	0.2132558	0.27229414	2.3574574	21	5 26.9	21.3
453840 2011 SZ_{252}	18.0	X	316.83948	220.93019	76.32819	1.66360	0.1566387	0.27533275	2.3400805	21	4 29.4	20.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
453841 2011 SR$_{254}$	18.2	X	53.22287	81.34913	191.22997	3.57801	0.0898991	0.29807602	2.2194806	21	9 22.6	20.7
453842 2011 SK$_{272}$	17.8	X	284.02384	246.63256	144.34799	6.87671	0.1043648	0.28811130	2.2703659	21	8 4.3	20.1
453843 2011 SY$_{274}$	17.4	X	219.29393	215.45503	146.17786	7.05116	0.1481360	0.26094013	2.4253559	21	4 5.2	21.2
453844 2011 UB$_{2}$	17.7	X	123.27164	37.08370	2.43569	4.26887	0.1791983	0.23941886	2.5686039	21	2 20.2	21.2
453845 2011 UH$_{12}$	17.2	X	216.74066	332.94063	47.40365	6.03891	0.2417483	0.26413601	2.4057527	21	4 22.1	21.3
453846 2011 UP$_{14}$	17.6	X	255.05543	82.98757	256.17934	5.78201	0.1503272	0.26408138	2.4060845	21	4 6.6	21.2
453847 2011 UR$_{17}$	17.0	X	185.62721	210.63475	249.40661	7.97971	0.1664851	0.26968536	2.3726361	21	7 5.6	20.7
453848 2011 UW$_{17}$	18.0	X	218.85801	129.31332	271.55592	0.47074	0.1850778	0.26666568	2.3905140	21	5 20.8	21.8
453849 2011 UH$_{25}$	17.9	X	236.72297	331.97133	10.90847	1.83083	0.1984351	0.25964966	2.4333853	21	3 24.5	21.9
453850 2011 UL$_{27}$	17.8	X	216.95350	274.95543	123.41344	2.10524	0.1387572	0.26470022	2.4023329	21	5 18.6	21.3
453851 2011 UT$_{31}$	17.5	X	166.66029	134.84991	314.31284	6.83088	0.3054194	0.26021997	2.4298286	21	6 8.3	21.9
453852 2011 UN$_{41}$	18.5	X	199.59502	150.36695	213.24798	3.80108	0.1925055	0.25511249	2.4621522	21	3 17.7	22.5
453853 2011 UW$_{44}$	17.9	X	178.25991	67.79148	14.77322	5.57863	0.1378853	0.26552819	2.3973363	21	6 5.2	21.5
453854 2011 UR$_{47}$	18.1	X	220.19275	230.50697	228.62799	4.72560	0.1802662	0.27744601	2.3281827	21	8 5.8	21.6
453855 2011 UY$_{49}$	17.5	X	160.12985	306.29412	38.96736	13.20862	0.1917745	0.23731619	2.5837538	21	1 27.3	21.8
453856 2011 UQ$_{51}$	17.6	X	150.24609	317.68638	47.17815	15.81031	0.1537561	0.23813987	2.5777926	21	2 9.0	21.8
453857 2011 UO$_{53}$	17.6	X	173.41050	207.17471	240.92723	3.61971	0.1516536	0.26100523	2.4249525	21	6 9.1	21.3
453858 2011 UU$_{59}$	17.7	X	103.92876	267.58924	245.45581	5.19921	0.1250400	0.25895508	2.4377346	21	6 17.3	20.8
453859 2011 UJ$_{62}$	18.1	X	306.32406	85.86491	229.58833	7.18914	0.2347644	0.27637570	2.3341897	21	4 24.7	21.0
453860 2011 UL$_{62}$	17.6	X	258.05652	201.58372	178.47892	2.68927	0.1819962	0.27357724	2.3500805	21	6 2.4	21.0
453861 2011 UP$_{82}$	17.0	X	141.28087	115.08267	257.24008	6.52920	0.1781578	0.23608228	2.5927489	21	2 3.1	20.9
453862 2011 UP$_{86}$	17.2	X	223.66683	35.01755	62.67003	5.04738	0.2078566	0.27420174	2.3465109	21	8 8.7	20.8
453863 2011 UB$_{95}$	18.2	X	176.73875	58.20574	37.39994	3.11716	0.1340902	0.26821239	2.3813149	21	6 21.8	21.8
453864 2011 UP$_{98}$	17.9	X	249.13244	116.79927	282.68862	4.93230	0.1142492	0.27399612	2.3476847	21	6 26.8	20.9
453865 2011 UD$_{101}$	17.0	X	162.62169	302.92478	39.34514	13.52324	0.0718832	0.23784527	2.5799208	21	1 12.1	20.9
453866 2011 UB$_{102}$	17.5	X	139.63851	315.64582	23.96505	5.43918	0.1574543	0.22845091	2.6501724	21	—	—
453867 2011 UX$_{102}$	17.7	X	169.41586	56.18800	6.40656	5.32457	0.1741599	0.25400677	2.4692924	21	5 2.8	21.7
453868 2011 UK$_{114}$	17.1	X	278.40144	315.72974	56.56582	11.09172	0.2231248	0.27531577	2.3401767	21	6 8.7	20.2
453869 2011 UE$_{115}$	17.6	X	210.23392	148.32272	260.08118	2.05964	0.1854807	0.26911047	2.3760140	21	5 22.4	21.4
453870 2011 UO$_{115}$	18.4	X	248.44000	6.26920	346.21503	2.33148	0.2433835	0.26889548	2.3772802	21	4 11.3	22.3
453871 2011 UE$_{116}$	17.8	X	234.83807	313.74714	109.55247	5.65216	0.2194078	0.27737125	2.3286010	21	7 1.9	21.4
453872 2011 UY$_{118}$	17.9	X	154.39520	201.19117	229.86347	1.91703	0.1844164	0.25552334	2.4595123	21	5 1.3	21.7
453873 2011 UD$_{126}$	17.3	X	47.20469	90.49891	11.50376	10.03900	0.1089501	0.23044148	2.6348887	21	1 13.4	20.4
453874 2011 UF$_{126}$	16.9	X	33.27057	56.94846	16.42936	13.17125	0.0499759	0.22134529	2.7065903	21	—	—
453875 2011 UX$_{126}$	17.4	X	131.71574	358.62375	29.72164	6.79753	0.1039064	0.23696701	2.5862914	21	2 7.9	21.0
453876 2011 UE$_{127}$	17.5	X	236.32732	256.79992	94.54786	2.13727	0.1939480	0.26290363	2.4132649	21	4 4.6	21.4
453877 2011 UT$_{132}$	17.9	X	174.31980	183.37141	250.51812	1.81539	0.1770528	0.25971087	2.4330029	21	5 23.0	21.8
453878 2011 UC$_{133}$	18.0	X	300.38118	26.82216	294.99294	1.59129	0.2212777	0.27268372	2.3552115	21	4 28.1	20.8
453879 2011 UZ$_{149}$	17.6	X	261.68577	159.53250	288.14903	3.97917	0.1430733	0.29217132	2.2492842	21	9 15.4	20.1
453880 2011 UE$_{152}$	18.4	X	225.09842	349.44069	351.59088	2.23349	0.2057420	0.25717677	2.4489593	21	3 12.2	22.4
453881 2011 UL$_{153}$	17.4	X	142.12301	220.07388	144.86083	2.10198	0.2374568	0.23428935	2.6059596	21	2 3.8	21.5
453882 2011 UU$_{155}$	17.1	X	127.29063	291.96515	104.67827	4.07164	0.1835052	0.23640734	2.5903716	21	2 22.4	20.8
453883 2011 UO$_{161}$	17.1	X	128.56189	302.08737	43.73468	19.38674	0.2263410	0.22695632	2.6617945	21	—	—
453884 2011 UX$_{170}$	17.1	X	99.21369	9.84516	346.35132	4.47695	0.1247074	0.22086670	2.7104988	21	—	—
453885 2011 UP$_{173}$	18.1	X	219.82081	354.88738	94.10422	6.06067	0.1022402	0.27789322	2.3256842	21	8 1.7	21.3
453886 2011 UW$_{177}$	17.1	X	330.34225	318.02538	211.69029	8.71898	0.1076549	0.22634093	2.6666171	21	—	—
453887 2011 UR$_{178}$	17.1	X	182.47474	235.23451	94.09819	6.27786	0.0448550	0.23413127	2.6071325	21	1 15.4	20.8
453888 2011 UA$_{179}$	16.7	X	275.13851	227.32886	63.25932	15.93268	0.1378883	0.25192386	2.4828845	21	3 11.1	20.6
453889 2011 UR$_{187}$	17.2	X	95.51993	325.86885	111.24609	6.15345	0.2002480	0.23877008	2.5732547	21	3 10.3	20.3
453890 2011 UY$_{190}$	17.3	X	60.44083	357.25278	62.00952	7.55522	0.0482289	0.22244192	2.6976874	21	—	—
453891 2011 UJ$_{193}$	17.4	X	115.81689	358.64402	50.40873	5.50158	0.1680774	0.23652136	2.5895391	21	2 23.9	20.9
453892 2011 UY$_{194}$	17.0	X	250.25414	321.83701	36.70692	10.70283	0.2888812	0.26620572	2.3932668	21	4 19.1	20.9
453893 2011 UE$_{197}$	17.2	X	66.91332	25.82847	11.22203	5.15309	0.0074377	0.21976442	2.7195547	21	—	—
453894 2011 UZ$_{228}$	18.1	X	176.09190	288.52829	169.68841	2.32289	0.1520510	0.26850669	2.3795745	21	6 24.8	21.9
453895 2011 UR$_{245}$	17.3	X	71.85615	275.49896	216.59887	12.50632	0.3045080	0.23908800	2.5709731	21	5 4.8	20.1
453896 2011 UE$_{255}$	17.9	X	170.47087	103.20746	323.73345	0.74250	0.1720067	0.25859302	2.4400095	21	5 10.2	21.7
453897 2011 UQ$_{265}$	18.2	X	242.63580	66.96725	306.02594	0.52942	0.2001726	0.26482617	2.4015711	21	5 6.1	21.7
453898 2011 UY$_{267}$	17.7	X	241.47757	105.80445	277.79819	1.77848	0.1878134	0.26684264	2.3894571	21	5 19.6	21.3
453899 2011 UJ$_{283}$	17.3	X	169.38695	2.75423	84.34663	5.75224	0.2145360	0.25918541	2.4362902	21	6 5.9	21.2
453900 2011 UD$_{291}$	17.6	X	197.05092	324.10334	78.33603	3.76675	0.1735948	0.26087425	2.4257641	21	5 4.4	21.5
453901 2011 UC$_{298}$	18.1	X	197.02192	346.94111	92.29095	2.48919	0.1567951	0.26727333	2.3868894	21	6 20.3	21.8
453902 2011 UK$_{298}$	17.8	X	296.88776	128.50484	263.38816	6.06578	0.1163177	0.28470470	2.2884405	21	8 22.4	20.3
453903 2011 UK$_{315}$	17.2	X	35.42428	310.22549	134.96828	3.98716	0.0308799	0.22375935	2.6870882	21	—	—
453904 2011 UN$_{317}$	17.4	X	136.08779	139.83199	244.57478	2.75990	0.1921558	0.23685465	2.5871092	21	2 15.1	21.1
453905 2011 UR$_{317}$	17.3	X	354.23780	303.50637	232.56594	10.54147	0.1110822	0.23384140	2.6092866	21	1 19.1	20.6
453906 2011 UN$_{318}$	17.8	X	86.64454	166.07715	16.91999	3.67194	0.0707480	0.26670131	2.3903011	21	6 27.7	20.7
453907 2011 UZ$_{320}$	17.0	X	56.89406	246.97364	218.86154	12.54295	0.2131553	0.23350242	2.6118112	21	2 4.8	19.8
453908 2011 UB$_{321}$	18.0	X	209.87412	154.28607	277.98663	2.52231	0.2042806	0.26986056	2.3716091	21	6 21.6	21.8
453909 2011 UA$_{327}$	18.0	X	279.70541	192.38296	208.64183	5.24440	0.1982479	0.27980580	2.3150742	21	7 25.5	20.7
453910 2011 US$_{339}$	17.4	X	270.60273	201.70671	123.88978	5.27360	0.2520094	0.26873955	2.3781997	21	3 30.6	21.1
453911 2011 UC$_{383}$	17.0	X	357.67184	75.69832	35.57197	5.26779	0.0606999	0.22038518	2.7144455	21	—	—
453912 2011 UR$_{384}$	17.2	X	60.31994	115.07096	10.29104	8.92724	0.1126719	0.23818879	2.5774397	21	3 7.4	20.0
453913 2011 US$_{389}$	17.0	X	206.87334	110.96929	301.78269	6.74843	0.1631487	0.26407079	2.4061487	21	5 24.8	21.0
453914 2011 VE$_{10}$	18.3	X	160.34538	232.55382	218.70441	1.91645	0.2275109	0.25874335	2.4390643	21	6 4.0	22.4
453915 2011 VL$_{13}$	17.1	X	206.45445	223.44390	227.03873	9.25469	0.1066450	0.27163326	2.3612796	21	7 15.2	20.6
453916 2011 VZ$_{15}$	18.3	X	139.03518	253.41034	228.21756	0.43787	0.1282197	0.26188425	2.4195233	21	6 16.5	21.6
453917 2011 WA$_{16}$	18.2	X	216.14250	303.61789	160.70702	2.22103	0.1826075	0.27331515	2.3515826	21	8 9.8	21.8
453918 2011 WK$_{39}$	17.6	X	191.54896	354.78670	99.81471	5.74805	0.1866657	0.26379677	2.4078147	21	7 4.7	21.6
453919 2011 WA$_{55}$	18.3	X	171.15973	295.58190	113.88189	2.33095	0.1684783	0.25400106	2.4693294	21	4 19.9	22.1
453920 2011 WG$_{57}$	17.8	X	68.03601	223.11600	222.16010	5.31656	0.1537606	0.22897077	2.6461595	21	1 26.3	20.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
453921 2011 WZ_{58}	18.0	X	151.42087	265.73233	135.03716	3.18871	0.1020280	0.24263596	2.5458488	21	3 15.6	21.7
453922 2011 WH_{59}	18.3	X	185.25374	313.14289	119.51422	2.08994	0.1662750	0.25943635	2.4347189	21	5 31.8	22.2
453923 2011 WF_{60}	17.9	X	264.09385	241.05883	121.21125	2.95345	0.2454682	0.26889528	2.3772814	21	5 9.8	21.4
453924 2011 WC_{61}	16.9	X	17.03989	56.29596	234.00599	6.06338	0.0994589	0.27548575	2.3392140	21	8 15.8	19.3
453925 2011 WH_{82}	17.6	X	61.15468	60.22411	71.08177	10.04323	0.1276163	0.23827493	2.5768184	21	3 22.6	20.6
453926 2011 WO_{86}	18.3	X	163.49332	31.41814	79.09957	2.61286	0.1706264	0.26195798	2.4190692	21	6 29.4	22.1
453927 2011 WG_{91}	17.2	X	73.45937	55.91761	79.22840	31.59864	0.2892338	0.23373562	2.6100738	21	5 18.9	20.7
453928 2011 WH_{112}	17.5	X	150.47451	195.45151	288.34799	2.10313	0.1129752	0.26113175	2.4241692	21	7 1.0	21.0
453929 2011 WX_{112}	16.3	X	117.50967	138.50067	259.68777	31.62971	0.1871157	0.23328056	2.6134670	21	1 28.4	20.5
453930 2011 WE_{123}	17.4	X	141.26367	311.38894	80.24778	3.66909	0.0306893	0.23700579	2.5860093	21	2 12.3	20.9
453931 2011 WM_{128}	17.2	X	163.10586	74.56535	254.63635	6.27744	0.0825625	0.22806062	2.6531951	21	—	—
453932 2011 WX_{128}	16.8	X	118.45614	315.25375	72.34683	22.62676	0.0464644	0.22850698	2.6497388	21	1 11.9	20.6
453933 2011 WQ_{129}	16.9	X	143.56876	112.46699	270.75339	11.50852	0.1056977	0.23380050	2.6095908	21	2 8.7	20.8
453934 2011 WF_{152}	16.8	X	40.18043	186.85286	315.00662	8.85564	0.1107716	0.23797321	2.5789960	21	2 19.4	19.5
453935 2011 XS	18.1	X	115.84505	88.22358	322.12599	1.44761	0.2128230	0.23530048	2.5984888	21	3 1.1	21.6
453936 2011 YC_{11}	17.2	X	139.94067	8.47548	51.96820	4.55916	0.2064412	0.23953473	2.5677756	21	4 8.6	21.1
453937 2011 YB_{25}	16.9	X	106.57204	128.10685	292.59799	12.36360	0.1299091	0.22646078	2.6656761	21	2 15.9	20.5
453938 2011 YX_{28}	15.8	X	20.87662	293.96121	304.75010	29.91689	0.2197096	0.23395448	2.6084457	21	6 22.7	18.6
453939 2011 YO_{35}	17.0	X	157.30880	270.30642	103.02066	8.48618	0.2007327	0.23000554	2.6382170	21	2 28.1	21.3
453940 2011 YX_{40}	16.5	X	345.44769	175.03584	310.36866	13.59667	0.1023289	0.20465355	2.8518271	21	—	—
453941 2011 YC_{44}	16.7	X	115.13557	246.77988	131.77711	9.41121	0.0878592	0.21668861	2.7452295	21	1 4.7	20.5
453942 2011 YL_{44}	16.7	X	298.18834	233.68628	263.81571	5.03519	0.1805565	0.19497132	2.9454765	21	12 30.5	20.0
453943 2011 YN_{44}	17.7	X	89.94407	302.82870	148.47444	3.72044	0.1629938	0.22924752	2.6440295	21	3 15.0	20.9
453944 2011 YP_{44}	16.5	X	14.64274	238.14607	279.01286	10.99552	0.0934881	0.22225232	2.6992214	21	1 30.9	19.8
453945 2011 YM_{47}	16.9	X	149.38078	98.36589	281.28838	11.40861	0.1903515	0.22888015	2.6468579	21	2 19.7	21.2
453946 2011 YK_{60}	16.9	X	83.56430	183.28308	280.90608	10.85133	0.1424636	0.22823646	2.6518321	21	3 12.5	20.4
453947 2011 YH_{61}	16.6	X	253.45886	45.67981	256.48967	9.08787	0.1032956	0.23256763	2.6188052	21	2 22.6	20.7
453948 2011 YH_{64}	16.6	X	16.16571	76.47896	103.50311	13.64517	0.1141838	0.22717545	2.6600826	21	3 13.1	19.8
453949 2011 YU_{65}	17.3	X	27.98362	336.92803	137.12434	8.69202	0.1841258	0.21603777	2.7507404	21	—	—
453950 2011 YH_{70}	16.0	X	66.87212	41.23441	101.82481	33.28613	0.2107463	0.23236069	2.6203599	21	5 14.1	19.8
453951 2012 AA_{7}	16.9	X	52.09383	156.50322	280.21518	10.02963	0.2216896	0.21533782	2.7566979	21	—	—
453952 2012 AE_{8}	17.9	X	151.62515	264.15855	128.27101	0.29345	0.1624991	0.23284953	2.6166912	21	3 11.5	21.8
453953 2012 AZ_{9}	17.3	X	119.92590	158.39307	256.69620	4.57432	0.0969962	0.22641060	2.6660700	21	2 23.1	21.1
453954 2012 AZ_{17}	17.2	X	166.81370	287.22397	178.81339	6.31821	0.0926093	0.25358129	2.4720538	21	6 24.2	20.9
453955 2012 AD_{24}	16.0	X	226.91331	34.63754	299.49262	32.01150	0.1699124	0.23298052	2.6157103	21	2 20.3	20.8
453956 2012 BP_{3}	15.9	X	104.09445	154.99457	292.11109	32.32255	0.1532464	0.23293920	2.6160196	21	3 3.4	20.2
453957 2012 BA_{17}	17.0	X	17.13142	155.88323	346.23533	4.61711	0.1126085	0.21581596	2.7526247	21	1 19.5	20.1
453958 2012 BW_{20}	16.3	X	334.13983	221.67330	277.32869	12.74809	0.1183728	0.20645198	2.8352412	21	—	—
453959 2012 BO_{33}	16.9	X	73.05571	11.09215	91.50193	9.36077	0.1147819	0.22554733	2.6728684	21	3 1.5	20.2
453960 2012 BR_{40}	17.3	X	45.80605	94.53594	108.21222	8.50373	0.1412156	0.24045650	2.5612091	21	6 4.4	20.1
453961 2012 BX_{51}	16.9	X	44.51568	57.02416	136.10734	5.64822	0.1087101	0.23504911	2.6003410	21	5 15.8	19.9
453962 2012 BZ_{66}	17.1	X	318.78000	85.76695	134.27813	16.31595	0.2310105	0.21755651	2.7379236	21	1 15.1	21.1
453963 2012 BK_{71}	16.5	X	318.56313	54.15240	126.66057	9.95732	0.0741830	0.20904938	2.8117074	21	—	—
453964 2012 BZ_{75}	16.0	X	104.42456	317.29363	305.28441	8.04313	0.0574498	0.17545807	3.1600006	21	10 21.7	20.8
453965 2012 BZ_{77}	17.5	X	117.18292	168.74351	278.86012	3.91515	0.1822501	0.23633046	2.5909334	21	4 13.5	21.3
453966 2012 BO_{84}	17.5	X	47.43749	20.36912	81.74946	1.92515	0.0308170	0.21513370	2.7584413	21	1 13.5	21.1
453967 2012 BP_{86}	16.4	X	101.23122	200.85221	275.82288	12.28131	0.1481979	0.23414766	2.6070108	21	4 25.6	20.2
453968 2012 BF_{87}	17.2	X	119.98671	293.03484	203.88069	11.69511	0.2231702	0.24521980	2.5279338	21	6 25.1	21.3
453969 2012 BG_{89}	17.4	X	117.94087	359.70466	99.78150	6.20595	0.2436390	0.23777391	2.5804369	21	5 10.9	21.3
453970 2012 BH_{91}	16.9	X	76.90649	155.15360	343.21408	12.19910	0.1673637	0.22875367	2.6478335	21	4 22.7	20.4
453971 2012 BX_{95}	16.8	X	67.71068	117.10715	41.96373	13.30240	0.1994800	0.22905521	2.6455092	21	5 16.8	19.8
453972 2012 BV_{103}	17.3	X	132.21122	15.05311	70.65588	5.37164	0.1555486	0.23860048	2.5744740	21	4 27.8	21.0
453973 2012 BC_{104}	16.7	X	323.06300	16.65519	126.23386	15.95507	0.0820960	0.20376458	2.8601156	21	—	—
453974 2012 BT_{104}	17.0	X	89.31063	19.79646	77.00081	7.16206	0.0652646	0.22663858	2.6642818	21	3 10.3	20.5
453975 2012 BY_{112}	18.2	X	101.03943	191.94721	253.91461	1.42970	0.2678378	0.22880068	2.6474708	21	4 6.3	21.7
453976 2012 BS_{119}	18.1	X	130.57346	152.09420	297.70749	1.77786	0.1259537	0.23587520	2.5942662	21	4 25.8	21.9
453977 2012 BV_{120}	17.0	X	54.14021	137.46812	332.16200	12.41977	0.1363189	0.21924115	2.7238802	21	2 8.8	19.9
453978 2012 BB_{121}	17.1	X	350.64723	301.15981	227.83289	4.53980	0.1609383	0.21373634	2.7704510	21	1 5.3	20.5
453979 2012 BO_{124}	17.2	X	10.63054	24.16225	130.66121	3.97053	0.1272469	0.21718459	2.7410485	21	1 22.9	20.3
453980 2012 BF_{126}	16.9	X	343.77434	52.71832	135.74246	14.21124	0.1542195	0.21360189	2.7716135	21	1 21.3	20.3
453981 2012 BY_{128}	17.0	X	87.52685	333.46354	82.92766	1.33880	0.0712745	0.21284958	2.7781403	21	1 14.5	20.6
453982 2012 BJ_{129}	16.8	X	16.94786	278.82525	142.47052	14.28576	0.0698260	0.19240082	2.9716531	21	—	—
453983 2012 BH_{139}	17.0	X	130.34586	353.65807	114.59642	14.55174	0.0393629	0.23986187	2.5654403	21	5 15.3	20.8
453984 2012 BM_{143}	16.5	X	264.44152	311.28595	203.79159	5.71862	0.1508273	0.18718251	3.0266291	21	12 3.7	20.5
453985 2012 BU_{144}	17.2	X	254.25666	293.64456	293.72319	1.08109	0.0374946	0.20335425	2.8639617	21	—	—
453986 2012 BP_{149}	16.7	X	295.43906	61.91567	105.72650	11.44628	0.0372686	0.19954991	2.9002473	21	—	—
453987 2012 BL_{150}	17.0	X	7.36643	72.27746	90.03785	13.52062	0.1801961	0.21643241	2.7473956	21	1 23.8	20.0
453988 2012 BZ_{150}	16.5	X	51.52645	281.36741	270.44427	10.31162	0.1444102	0.23645344	2.5900349	21	5 28.3	19.3
453989 2012 CN_{5}	16.7	X	30.91752	99.94403	46.85549	9.44567	0.1029411	0.22031001	2.7150629	21	2 20.9	20.0
453990 2012 CG_{8}	17.4	X	115.45535	127.09225	288.05198	1.64093	0.1851240	0.22490303	2.6779709	21	3 3.9	21.1
453991 2012 CW_{8}	17.6	X	68.55100	339.06447	173.01697	0.19187	0.1273483	0.23267248	2.6180185	21	4 27.9	20.5
453992 2012 CK_{15}	17.8	X	133.95140	269.09643	161.45258	4.69408	0.2682301	0.23562098	2.5961318	21	4 21.7	22.0
453993 2012 CB_{30}	16.4	X	184.18524	299.05550	89.74216	16.34549	0.1667039	0.23873054	2.5735388	21	4 14.8	20.9
453994 2012 CU_{32}	16.7	X	25.82777	293.22631	276.32456	5.14092	0.1959614	0.23076746	2.6324068	21	5 7.9	19.0
453995 2012 CS_{37}	15.9	X	266.01301	215.68362	317.20634	10.79517	0.1146410	0.18638621	3.0352435	21	—	—
453996 2012 CN_{38}	16.9	X	77.32079	77.95255	68.42681	10.96271	0.1110986	0.23408494	2.6074765	21	5 3.6	20.2
453997 2012 CJ_{40}	16.4	X	201.70365	44.49218	138.45004	10.03365	0.0454899	0.17481250	3.1677755	21	11 8.8	21.2
453998 2012 CE_{45}	16.4	X	323.42172	124.71317	347.37977	13.09871	0.0479766	0.18709477	3.0275753	21	—	—
453999 2012 CY_{49}	17.1	X	117.47126	322.60127	148.09189	5.18418	0.2164571	0.23499515	2.6007391	21	5 21.4	21.0
454000 2012 CS_{53}	16.0	X	268.37081	7.63528	128.67489	19.87492	0.1540973	0.18242622	3.0790108	21	11 20.6	20.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
454001 2012 DT_5	17.2	X	3.40307	35.75832	83.20918	5.26421	0.1238448	0.20330720	2.8644036	21	—	—
454002 2012 DU_5	16.4	X	162.97628	285.03723	36.71792	6.33095	0.0654138	0.20027389	2.8932536	21	—	—
454003 2012 DH_7	16.5	X	324.22493	285.11653	343.93662	14.44567	0.1167347	0.23012059	2.6373376	21	4 5.9	20.0
454004 2012 DD_{19}	17.6	X	65.74849	351.78729	168.76174	14.54173	0.2055311	0.22855532	2.6493652	21	5 21.8	21.0
454005 2012 DC_{24}	16.6	X	44.53892	151.58119	0.03706	13.20020	0.0495831	0.21733093	2.7398178	21	3 15.4	20.1
454006 2012 DD_{32}	16.3	X	212.34349	183.38258	21.74262	9.74149	0.1202327	0.17458729	3.1704990	21	12 3.9	21.2
454007 2012 DQ_{33}	17.0	X	340.23431	14.07322	150.62582	17.27188	0.1641194	0.20422848	2.8557828	21	—	—
454008 2012 DB_{34}	17.0	X	116.87658	299.67106	140.47301	6.75879	0.0526096	0.22537510	2.6742300	21	3 21.6	20.6
454009 2012 DF_{35}	17.8	X	113.25018	69.61189	27.57275	4.95665	0.2482328	0.23158140	2.6262351	21	5 1.5	21.7
454010 2012 DL_{36}	17.2	X	30.87644	164.07867	325.99643	2.77808	0.1285928	0.21066725	2.7972935	21	1 26.9	20.1
454011 2012 DX_{39}	17.6	X	95.58330	330.57076	214.68303	4.16950	0.1290472	0.24127401	2.5554204	21	7 20.6	21.1
454012 2012 DW_{40}	17.3	X	35.44791	308.77438	161.95025	3.97605	0.0512465	0.20946591	2.8079788	21	1 8.9	20.8
454013 2012 DZ_{41}	17.4	X	333.23807	211.84355	335.23295	3.14838	0.0462412	0.21122773	2.7923429	21	1 21.3	21.1
454014 2012 DO_{44}	16.1	X	295.00164	317.20741	168.13755	27.58756	0.1274823	0.17980606	3.1088505	21	12 13.8	20.6
454015 2012 DA_{45}	16.0	X	237.26101	152.79054	18.26449	17.63689	0.1673780	0.17341730	3.1847433	21	11 11.2	21.0
454016 2012 DG_{45}	16.5	X	354.66810	297.28579	163.65941	11.96185	0.0991438	0.18938194	3.0031498	21	—	—
454017 2012 DW_{53}	16.7	X	35.80573	113.96151	13.27854	14.62221	0.2204849	0.21204326	2.7851787	21	2 8.8	19.5
454018 2012 DO_{61}	16.3	X	201.87983	200.35323	356.91289	9.72861	0.0401800	0.17576155	3.1563619	21	11 20.3	21.1
454019 2012 DC_{63}	16.8	X	118.57129	336.64445	322.32245	9.20780	0.0458029	0.18460882	3.0546942	21	12 24.2	21.4
454020 2012 DM_{68}	17.0	X	84.00443	264.24381	158.34870	9.87500	0.1461099	0.21490771	2.7603748	21	1 25.5	20.5
454021 2012 DX_{68}	17.7	X	28.13311	270.26003	258.94714	1.01018	0.1365594	0.22333793	2.6904673	21	3 12.9	20.5
454022 2012 DK_{69}	17.0	X	108.90865	84.42769	318.55761	7.21299	0.2340681	0.21985972	2.7187688	21	2 16.6	20.6
454023 2012 DD_{73}	17.0	X	33.62724	93.05912	36.59876	4.45407	0.1525416	0.21260622	2.7802600	21	2 1.2	19.9
454024 2012 DX_{88}	15.9	X	60.28384	73.35951	40.98393	22.10275	0.0791907	0.22035523	2.7146914	21	3 4.1	19.8
454025 2012 DP_{90}	16.9	X	345.13152	156.99609	344.74030	14.81874	0.0830253	0.20239580	2.8729962	21	—	—
454026 2012 DB_{97}	16.1	X	262.19059	81.75262	79.72704	16.30650	0.1578136	0.18535245	3.0465186	21	12 7.1	20.2
454027 2012 DY_{97}	16.0	X	256.95980	107.62117	47.00253	27.51727	0.1231545	0.18127613	3.0920201	21	11 21.9	20.5
454028 2012 EE_8	17.1	X	88.19044	87.34936	52.27070	16.48602	0.1704307	0.23101612	2.6305175	21	5 16.5	20.3
454029 2012 EU_{16}	16.1	X	175.22926	121.01494	126.51523	9.51671	0.0486840	0.17609285	3.1524018	21	12 22.9	20.8
454030 2012 FE_{14}	16.5	X	317.28629	117.25128	92.97264	8.47928	0.2525731	0.20406126	2.8573427	21	1 1.5	20.5
454031 2012 FS_{17}	16.7	X	56.20634	310.62722	51.55011	2.31893	0.0386702	0.17748312	3.1359178	21	12 25.5	21.0
454032 2012 FG_{25}	16.7	X	327.39201	296.75761	174.07287	10.68841	0.0978946	0.18629936	3.0361867	21	—	—
454033 2012 FH_{26}	16.2	X	335.48377	271.25612	182.87953	16.30086	0.1208932	0.18248695	3.0783277	21	—	—
454034 2012 FD_{31}	16.3	X	210.35054	65.35259	157.24663	11.48857	0.2182689	0.17483349	3.1675220	21	12 16.0	21.6
454035 2012 FB_{32}	16.2	X	181.07065	161.43490	106.48491	5.98623	0.1458161	0.17769992	3.1333667	21	—	—
454036 2012 FT_{32}	16.5	X	216.74218	92.91185	127.56462	11.45604	0.0903431	0.18177063	3.0864097	21	—	—
454037 2012 FQ_{36}	16.7	X	57.55286	302.13813	169.08774	13.54243	0.2479632	0.21427485	2.7658073	21	3 1.2	19.2
454038 2012 FW_{36}	16.3	X	0.96664	10.93604	41.43498	9.89609	0.0527620	0.17389338	3.1789279	21	12 16.4	20.6
454039 2012 FX_{46}	16.9	X	210.96379	64.07577	164.84859	1.42383	0.1383894	0.17934609	3.1141638	21	12 30.7	21.7
454040 2012 FE_{48}	16.5	X	110.74210	159.35362	161.15866	10.09941	0.0649675	0.17960048	3.1112224	21	—	—
454041 2012 FS_{49}	16.9	X	288.47109	86.60536	116.99183	2.16634	0.1617247	0.19674222	2.9277748	21	—	—
454042 2012 FO_{53}	16.7	X	87.62915	48.85657	123.18826	15.95992	0.2151302	0.23511317	2.5998687	21	7 6.4	20.3
454043 2012 FS_{72}	17.1	X	52.19389	246.96341	292.40461	6.58086	0.2710793	0.22661601	2.6644586	21	6 1.7	19.8
454044 2012 GC_3	17.2	X	126.40644	289.57992	189.82656	7.09789	0.1012735	0.23006326	2.6377757	21	5 29.2	21.0
454045 2012 GW_4	17.2	X	80.49814	334.63785	188.90580	3.98501	0.1829488	0.23038223	2.6353405	21	6 10.7	20.6
454046 2012 GY_6	16.5	X	46.11718	113.52204	25.12834	14.88544	0.0703359	0.21185414	2.7868360	21	3 8.8	20.1
454047 2012 GA_{20}	16.1	X	116.00678	309.94332	31.99332	9.95741	0.1598645	0.17842678	3.1248513	21	—	—
454048 2012 GE_{24}	16.3	X	267.89845	359.75704	172.22203	11.35806	0.1186323	0.18011770	3.1052634	21	12 30.9	20.7
454049 2012 GU_{27}	16.1	X	197.48157	119.98229	106.75542	9.40395	0.0642072	0.17018999	3.2248786	21	12 20.1	21.0
454050 2012 GB_{28}	16.4	X	255.86769	27.21321	172.14123	13.70142	0.0852724	0.17931045	3.1145764	21	—	—
454051 2012 GY_{38}	16.2	X	233.17446	58.85612	152.87772	15.13274	0.1269817	0.17302108	3.1896036	21	—	—
454052 2012 HE_{13}	15.9	X	318.84834	86.64522	92.34591	12.17786	0.0949649	0.18937446	3.0032290	21	—	—
454053 2012 HP_{26}	16.2	X	256.29746	133.71293	45.39049	12.94688	0.1649695	0.17568626	3.1572637	21	12 16.3	20.7
454054 2012 HY_{27}	16.4	X	309.15607	153.73669	60.43723	11.71808	0.0725192	0.19779711	2.9173560	21	1 25.5	20.6
454055 2012 HX_{53}	16.0	X	297.78987	303.67801	183.74483	10.44234	0.0256668	0.17173899	3.2054582	21	12 24.9	20.6
454056 2012 HE_{70}	15.7	X	244.56124	114.69801	91.74973	17.27141	0.2397019	0.17534039	3.1614142	21	12 26.3	20.3
454057 2012 HS_{82}	15.4	X	230.35041	110.21236	104.71782	27.15061	0.2152124	0.17507998	3.1645483	21	12 25.9	20.3
454058 2012 JM_{15}	16.6	X	295.57132	287.64926	236.50902	9.84286	0.1362657	0.18012944	3.1051285	21	—	—
454059 2012 JJ_{20}	16.4	X	268.61871	38.00815	160.86306	5.20305	0.2377673	0.18230505	3.0803750	21	—	—
454060 2012 JX_{23}	15.8	X	261.61070	313.03691	220.81664	27.44550	0.2774843	0.17400066	3.1776212	21	11 30.9	20.5
454061 2012 JD_{25}	16.5	X	290.27277	320.25289	216.82818	10.99787	0.2694883	0.18371470	3.0645976	21	—	—
454062 2012 JS_{39}	16.3	X	302.05155	92.33652	48.45369	9.01423	0.1055040	0.17454024	3.1710688	21	—	—
454063 2012 JY_{60}	16.3	X	224.46154	147.84215	61.64172	11.84195	0.0457659	0.17245708	3.1965538	21	12 31.7	21.0
454064 2012 KF_{19}	17.2	X	75.35075	310.19655	190.31275	7.45651	0.1622822	0.21964307	2.7205562	21	4 30.7	20.5
454065 2012 KA_{27}	16.3	X	292.09866	295.01445	206.07757	9.68782	0.0810198	0.17267432	3.1938722	21	12 28.7	20.7
454066 2012 KG_{35}	15.6	X	262.39162	340.12919	207.60211	11.63448	0.0825652	0.17851694	3.1237991	21	—	—
454067 2012 KZ_{49}	16.5	X	292.88934	351.40751	207.77944	8.64488	0.0818425	0.18344758	3.0675717	21	—	—
454068 2012 LZ_{20}	18.0	X	218.37825	1.05452	209.02030	20.94703	0.0388999	0.37813223	1.8939721	21	—	—
454069 2012 OX_2	18.3	X	182.13357	66.06453	278.15768	19.50857	0.0523747	0.39348039	1.8443952	21	—	—
454070 2012 SH_{65}	15.2	X	323.75669	282.51331	153.02682	6.26573	0.0129687	0.12589376	3.9427562	21	11 20.0	20.8
454071 2012 TH_{20}	18.4	X	311.69448	130.85728	342.89849	9.46370	0.1423297	0.34967805	1.9953717	21	—	—
454072 2012 TU_{30}	17.8	X	78.86792	33.72915	15.22896	21.75775	0.0443343	0.37413830	1.9074270	21	—	—
454073 2012 TL_{52}	14.0	X	43.41180	309.35209	274.61688	3.33612	0.1089129	0.08169718	5.2601485	21	6 27.9	20.5
454074 2012 UB_{135}	17.6	X	140.95226	127.35758	236.34351	19.07617	0.0715075	0.37531047	1.9034534	21	—	—
454075 2012 UJ_{153}	18.3	X	291.18878	294.74604	220.62270	5.54301	0.3104696	0.34146184	2.0272529	21	—	—
454076 2012 UE_{174}	17.4	X	313.71279	277.85246	248.30347	18.68784	0.1010909	0.36694331	1.9322800	21	—	—
454077 2012 VP_7	17.3	X	22.57255	226.91839	250.18578	18.76721	0.0835011	0.36890721	1.9254162	21	—	—
454078 2012 VV_{93}	17.4	X	216.89731	145.69610	314.15992	25.01349	0.4898419	0.29394006	2.2402519	21	7 22.9	22.0
454079 2012 WF_{24}	17.7	X	176.60413	26.13182	60.45190	5.91115	0.1359202	0.29094487	2.2556008	21	6 8.7	20.9
454080 2012 XZ_{112}	17.5	X	141.89963	167.68497	303.57459	5.83164	0.1285665	0.28415402	2.2913962	21	6 4.4	20.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
454081 2013 AM_{36}	17.4	X	13.71904	130.52082	82.38672	4.22813	0.0771167	0.26579536	2.3957295	21	4 15.4	20.0
454082 2013 AC_{58}	17.7	X	238.87092	161.55401	310.93497	3.48941	0.0830427	0.30711445	2.1757177	21	9 30.9	20.3
454083 2013 AB_{59}	18.2	X	219.29711	204.68305	274.25222	2.72611	0.1114361	0.30137017	2.2032775	21	9 9.8	21.1
454084 2013 AC_{68}	17.8	X	98.23091	134.87964	100.19069	4.57796	0.0281578	0.30248183	2.1978760	21	9 26.2	20.3
454085 2013 AX_{101}	17.2	X	277.86312	336.76477	82.00883	9.45883	0.0277796	0.30211041	2.1996770	21	9 26.5	19.8
454086 2013 AH_{111}	17.2	X	168.03442	314.64155	77.17289	11.80410	0.0447275	0.26272338	2.4143686	21	3 21.2	20.7
454087 2013 AJ_{122}	18.1	X	337.55690	358.40397	47.86809	2.58688	0.0708205	0.31950356	2.1191039	21	12 10.7	20.1
454088 2013 AN_{150}	16.8	X	294.25039	84.71642	148.66349	13.93017	0.1202865	0.24529215	2.5274367	21	1 12.4	20.6
454089 2013 AB_{170}	18.1	X	249.78883	187.62231	168.93973	9.59231	0.0671691	0.27577577	2.3375737	21	5 6.7	21.3
454090 2013 BJ_{8}	18.2	X	259.69418	69.89041	328.46999	3.91597	0.0959291	0.29517612	2.2339935	21	7 12.5	20.9
454091 2013 BS_{25}	18.3	X	194.94741	269.39012	117.28180	3.40099	0.2205300	0.27050084	2.3678652	21	4 13.1	22.3
454092 2013 BX_{34}	18.1	X	13.99260	148.96872	129.80415	3.35554	0.0995462	0.28814260	2.2702015	21	7 26.3	19.9
454093 2013 BL_{44}	16.5	X	287.20777	150.40877	66.43982	12.57980	0.1229884	0.23490442	2.6014087	21	—	—
454094 2013 BZ_{45}	21.9	X	19.54459	98.67680	131.07126	11.85132	0.1446268	0.96414944	1.0147829	21	—	—
454095 2013 BW_{50}	18.1	X	211.83663	83.47017	343.32610	5.02264	0.1349140	0.28787520	2.2716071	21	6 19.3	21.4
454096 2013 BR_{55}	17.6	X	25.54149	14.42237	283.78045	4.56662	0.1525094	0.29875616	2.2161108	21	9 24.2	19.6
454097 2013 BX_{61}	18.3	X	183.13225	25.35346	109.97285	2.58137	0.0883466	0.29318272	2.2441082	21	8 24.2	21.2
454098 2013 BG_{65}	17.6	X	178.14082	244.75736	142.18429	6.66810	0.1314934	0.26197580	2.4189595	21	3 27.7	21.2
454099 2013 BV_{67}	17.4	X	324.89852	231.63070	42.51881	3.76486	0.1828634	0.26746264	2.3857630	21	4 5.5	20.1
454100 2013 BO_{73}	20.1	X	306.29350	298.13944	24.78825	4.54384	0.4184386	0.64151907	1.3314647	21	3 8.4	21.2
454101 2013 BP_{73}	20.3	X	270.90894	251.85880	80.04706	6.84994	0.6289127	0.64375607	1.3283785	21	2 25.3	22.8
454102 2013 BM_{80}	17.6	X	153.16411	42.54849	104.62790	5.32637	0.0238051	0.28836944	2.2690108	21	8 2.2	20.4
454103 2013 CZ_{3}	18.0	X	159.33062	342.26588	163.42833	5.49824	0.0876783	0.28916473	2.2648486	21	8 8.7	21.1
454104 2013 CF_{6}	17.5	X	101.78218	39.89057	146.68845	7.48654	0.0509621	0.28333778	2.2957947	21	7 20.6	20.3
454105 2013 CT_{8}	16.9	X	353.24567	3.30102	289.54465	6.60642	0.1119408	0.28126568	2.3070565	21	7 7.5	18.7
454106 2013 CR_{10}	17.4	X	262.57270	328.00745	94.38593	7.01084	0.1237077	0.29603618	2.2296645	21	8 18.8	20.0
454107 2013 CE_{12}	18.0	X	230.91359	6.52271	69.35032	3.35666	0.1335211	0.29277604	2.2461859	21	7 24.4	21.1
454108 2013 CE_{14}	18.1	X	188.13799	23.89964	96.52494	2.89087	0.1000446	0.28976319	2.2617291	21	8 8.5	21.2
454109 2013 CT_{30}	17.8	X	318.26152	275.50257	97.41024	6.40214	0.1254984	0.30030044	2.2085068	21	9 10.5	19.7
454110 2013 CR_{68}	16.6	X	234.07182	316.17029	293.85903	11.89330	0.1707889	0.22019535	2.7160054	21	—	—
454111 2013 CP_{71}	18.2	X	178.99433	305.09972	177.69839	4.81596	0.0829653	0.28924418	2.2644338	21	7 30.6	21.3
454112 2013 CA_{76}	17.7	X	123.38454	280.13172	276.46772	4.44745	0.1322522	0.28914947	2.2649283	21	9 7.8	21.0
454113 2013 CR_{77}	17.9	X	93.56697	342.32809	175.36229	4.87872	0.1145570	0.26583999	2.3954614	21	6 8.6	20.9
454114 2013 CE_{79}	18.2	X	214.52523	244.76496	217.97281	3.64483	0.1578024	0.29418517	2.2390074	21	8 7.6	21.4
454115 2013 CH_{84}	18.2	X	160.79330	36.94868	127.52122	3.91279	0.0983920	0.28948501	2.2631778	21	9 7.7	21.3
454116 2013 CM_{84}	18.0	X	147.00409	73.86641	55.83461	2.93196	0.1547254	0.27530168	2.3402566	21	7 8.1	21.4
454117 2013 CM_{86}	18.2	X	129.25759	1.50434	125.12665	3.23864	0.1616657	0.27084858	2.3658380	21	6 15.6	21.5
454118 2013 CV_{89}	17.2	X	204.53123	359.32909	101.31117	7.07293	0.0562030	0.28430913	2.2905627	21	8 3.5	20.2
454119 2013 CF_{97}	18.1	X	232.68460	293.20196	153.16585	6.21514	0.0726541	0.29347207	2.2426329	21	8 17.1	20.8
454120 2013 CS_{117}	16.5	X	284.11229	35.28674	141.59508	16.72886	0.0071604	0.21542788	2.7559295	21	—	—
454121 2013 CE_{119}	17.9	X	241.46612	358.62486	53.32362	4.25067	0.1225139	0.28261392	2.2997132	21	7 3.9	21.1
454122 2013 CZ_{142}	18.1	X	198.94901	112.78268	304.87932	4.76066	0.2036567	0.27724756	2.3292936	21	5 22.8	22.0
454123 2013 CW_{143}	16.8	X	232.17571	65.58349	158.43578	13.71662	0.1922212	0.20978761	2.8051074	21	—	—
454124 2013 CM_{153}	17.9	X	44.69260	117.08135	111.99178	5.20683	0.1020715	0.27071799	2.3665988	21	7 4.7	20.4
454125 2013 CC_{157}	18.7	X	160.80983	60.78851	62.88082	3.49990	0.1862695	0.28073979	2.3099367	21	7 15.2	22.3
454126 2013 CH_{162}	17.2	X	269.07354	203.42158	156.57052	6.72727	0.1928378	0.27248546	2.3563538	21	5 18.8	20.6
454127 2013 CD_{165}	18.3	X	135.70185	326.24423	162.93022	5.68470	0.1600223	0.27173502	2.3606901	21	6 25.6	21.8
454128 2013 CP_{165}	18.2	X	69.29259	27.41476	163.29734	8.63499	0.1674508	0.26419751	2.4053793	21	6 28.9	21.1
454129 2013 CZ_{165}	17.7	X	164.52188	328.92441	143.19787	7.64365	0.1201226	0.27732754	2.3288457	21	6 30.7	21.2
454130 2013 CR_{175}	18.2	X	64.28417	335.00805	202.68312	2.48747	0.1174261	0.26185641	2.4196947	21	5 24.3	20.9
454131 2013 CN_{181}	17.9	X	68.79403	292.24315	260.09694	1.64092	0.1316663	0.26728695	2.3868084	21	6 24.5	20.6
454132 2013 CV_{185}	18.6	X	205.60426	320.70590	177.55855	3.93874	0.1880957	0.29997679	2.2100950	21	9 14.6	21.7
454133 2013 CC_{188}	18.4	X	159.02657	13.72859	112.60663	2.25280	0.1229455	0.28108787	2.3080293	21	7 14.4	21.8
454134 2013 CR_{188}	17.8	X	91.97675	112.64124	96.39807	4.94507	0.1519743	0.28054531	2.3110040	21	8 26.0	20.8
454135 2013 CN_{192}	18.0	X	79.27831	328.50493	218.87777	0.67999	0.1237003	0.27143606	2.3624232	21	7 1.9	20.8
454136 2013 CZ_{198}	18.6	X	154.72546	311.32294	190.23335	2.83184	0.1307388	0.28297511	2.2977559	21	7 30.0	22.0
454137 2013 CO_{201}	18.9	X	290.14650	326.15378	120.25591	2.48476	0.0999474	0.31342202	2.1464282	21	11 15.4	20.6
454138 2013 DC_{2}	18.1	X	98.68205	151.32444	349.70224	4.77898	0.1379691	0.26569027	2.3963612	21	5 24.8	21.2
454139 2013 DA_{11}	17.7	X	4.30281	214.27626	50.05317	3.10060	0.1795432	0.26892697	2.3770947	21	6 12.8	19.5
454140 2013 DV_{12}	17.0	X	120.56873	213.01900	105.42068	5.66693	0.1968069	0.21211273	2.7845706	21	—	—
454141 2013 EF_{4}	17.1	X	79.84545	211.36655	194.17847	5.58578	0.1251478	0.22853195	2.6495458	21	—	—
454142 2013 EL_{4}	17.6	X	117.04301	7.82469	181.18414	7.99547	0.1319758	0.28067826	2.3102742	21	8 21.6	21.0
454143 2013 EW_{17}	18.4	X	223.02381	121.53992	346.85173	2.48957	0.1042722	0.29713232	2.2241775	21	9 1.9	21.3
454144 2013 EH_{30}	16.6	X	214.57056	139.83069	165.47051	11.93306	0.0547092	0.23021448	2.6366205	21	1 21.2	20.6
454145 2013 EB_{33}	16.7	X	275.35747	344.11652	196.71419	11.52705	0.1804756	0.21196565	2.7858586	21	—	—
454146 2013 EX_{35}	17.7	X	8.81580	114.52610	144.19645	10.19724	0.1076804	0.27169451	2.3609247	21	6 14.9	20.2
454147 2013 EU_{45}	17.0	X	228.04316	329.46756	304.10008	2.06149	0.0221667	0.22620618	2.6676759	21	—	—
454148 2013 EE_{51}	17.9	X	83.27792	73.25563	90.80238	4.25814	0.0984105	0.26018035	2.4300753	21	5 31.3	20.8
454149 2013 EY_{51}	18.6	X	213.97702	78.73015	17.58698	3.07808	0.1300680	0.28744544	2.2738707	21	8 2.9	21.9
454150 2013 EK_{57}	17.1	X	225.58314	142.36090	166.25115	12.00995	0.0746209	0.23560784	2.5962284	21	2 5.1	20.9
454151 2013 EV_{68}	16.9	X	203.80091	71.82958	169.09658	15.02092	0.1075323	0.20321771	2.8652444	21	—	—
454152 2013 EG_{76}	17.7	X	260.54212	271.96162	143.02547	5.15276	0.1422083	0.29000099	2.2604925	21	7 29.6	20.4
454153 2013 EM_{79}	16.8	X	205.63942	154.29491	72.09081	3.08307	0.0095059	0.20390551	2.8587976	21	—	—
454154 2013 EK_{87}	17.1	X	253.55802	173.71636	85.43805	8.24892	0.1375099	0.22498137	2.6773492	21	1 5.1	21.4
454155 2013 EK_{92}	17.1	X	10.00432	324.65456	176.39038	13.64085	0.1951175	0.23283267	2.6168175	21	—	—
454156 2013 EF_{94}	18.0	X	179.85414	116.05451	19.13708	11.28776	0.2192195	0.28774920	2.2722701	21	8 21.1	21.9
454157 2013 EL_{101}	15.9	X	98.55245	139.55286	131.48945	16.81119	0.0924156	0.17915371	3.1163927	21	11 8.5	20.9
454158 2013 ET_{102}	17.4	X	145.25309	254.41795	175.77468	6.10568	0.1160796	0.25310887	2.4751288	21	4 16.4	20.9
454159 2013 EO_{111}	18.1	X	127.91860	11.16842	135.87396	5.59897	0.0376729	0.26722758	2.3871619	21	6 28.3	21.1
454160 2013 EZ_{118}	17.8	X	106.56133	333.92423	208.96084	5.29917	0.1424838	0.27589280	2.3369126	21	8 1.8	21.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
454161 2013 EL_{119}	15.9	X	320.35578	80.21767	33.45027	12.98603	0.0292146	0.20364262	2.8612575	21	—	—
454162 2013 EN_{123}	16.0	X	82.73509	278.49054	32.48351	10.10619	0.2344495	0.17762770	3.1342160	21	12 16.0	21.1
454163 2013 FF_{4}	17.6	X	224.48163	52.49444	17.91995	7.26474	0.1203418	0.27575249	2.3377052	21	7 10.9	21.0
454164 2013 FU_{11}	17.6	X	84.87538	84.67982	97.09977	4.64042	0.1926852	0.26566144	2.3965346	21	7 13.2	20.7
454165 2013 FX_{12}	16.7	X	310.88480	181.76664	76.38824	17.81551	0.1067216	0.24108065	2.5567866	21	3 20.0	20.4
454166 2013 FM_{14}	18.2	X	106.91622	107.51342	82.34791	5.73575	0.1518222	0.27443560	2.3451777	21	8 17.0	21.5
454167 2013 FX_{14}	16.6	X	176.47283	192.80443	79.88133	14.27806	0.2003199	0.19713843	2.9238507	21	—	—
454168 2013 FU_{15}	16.6	X	177.92919	325.08235	15.04075	13.70846	0.0256247	0.22861100	2.6489350	21	1 27.6	20.5
454169 2013 FS_{18}	15.8	X	129.81250	95.81488	161.85322	16.00038	0.2292134	0.17887847	3.1195886	21	11 26.9	21.4
454170 2013 FT_{18}	16.0	X	148.54112	175.43475	57.29732	15.26775	0.0964488	0.17717663	3.1395333	21	11 9.2	20.9
454171 2013 FJ_{19}	17.2	X	254.41548	82.22402	176.71931	9.71168	0.1815093	0.22038975	2.7144080	21	1 3.1	21.8
454172 2013 GL_{1}	16.1	X	45.55526	189.22829	139.47313	6.20156	0.1570431	0.17132895	3.2105705	21	11 19.5	20.5
454173 2013 GE_{11}	18.2	X	179.74079	10.62857	95.74276	4.86678	0.1380966	0.27571834	2.3378983	21	7 9.5	21.7
454174 2013 GP_{21}	18.0	X	166.95565	4.03540	117.20350	7.44715	0.0705469	0.27669396	2.3323994	21	7 14.7	21.3
454175 2013 GX_{21}	16.5	X	164.52683	194.20311	193.85899	12.95672	0.2532810	0.24085245	2.5584013	21	3 22.3	20.9
454176 2013 GC_{24}	17.9	X	124.17026	282.71900	221.20117	5.61015	0.0743181	0.26545140	2.3977986	21	6 23.3	21.2
454177 2013 GJ_{35}	15.8	X	274.18061	219.32937	291.20553	41.19790	0.4906329	0.31535135	2.1376647	21	10 24.9	19.2
454178 2013 GJ_{37}	17.8	X	80.48485	83.94950	107.31956	5.53474	0.1402922	0.26402324	2.4064376	21	7 12.2	20.8
454179 2013 GD_{38}	17.9	X	151.76918	6.79423	119.82380	1.89180	0.1229696	0.27007595	2.3703480	21	7 6.7	21.2
454180 2013 GU_{45}	17.2	X	304.93047	88.01269	155.95081	11.67446	0.1655858	0.23097741	2.6308114	21	2 3.3	21.0
454181 2013 GD_{53}	17.5	X	237.16306	207.00650	83.82749	4.60063	0.0410097	0.22516770	2.6758719	21	2 1.6	21.3
454182 2013 GP_{53}	16.7	X	2.33313	329.87436	185.82122	9.49593	0.0488950	0.22413571	2.6840794	21	1 15.1	20.4
454183 2013 GZ_{53}	17.4	X	20.57533	2.30170	187.02975	11.91557	0.1178394	0.24133154	2.5550142	21	3 24.6	20.1
454184 2013 GP_{56}	17.9	X	128.57067	75.60389	71.21283	5.87276	0.1424496	0.26949924	2.3737284	21	7 10.7	21.3
454185 2013 GB_{76}	18.4	X	114.63373	239.31431	270.09630	0.53542	0.1191885	0.26856916	2.3792055	21	6 24.8	21.7
454186 2013 GJ_{76}	16.3	X	253.74918	140.56714	117.75948	26.35263	0.1805672	0.21889423	2.7267574	21	1 3.8	20.9
454187 2013 GW_{81}	16.4	X	271.17735	174.51876	57.46989	18.05780	0.1937530	0.21164837	2.7886420	21	—	—
454188 2013 GN_{82}	17.1	X	104.77519	100.71279	92.86629	7.36762	0.0632090	0.27162597	2.3613219	21	8 7.8	20.1
454189 2013 GR_{86}	16.8	X	341.62439	142.15777	71.22023	14.32771	0.1281411	0.23425154	2.6062401	21	2 27.1	20.2
454190 2013 GY_{90}	17.0	X	47.57927	5.95352	139.41311	12.72441	0.1115240	0.24227614	2.5483689	21	3 13.3	19.8
454191 2013 GC_{96}	17.3	X	109.27718	147.07004	1.54340	13.01306	0.1479199	0.26326744	2.4110411	21	6 20.9	20.9
454192 2013 GX_{100}	16.9	X	11.12579	352.22264	205.02679	13.90142	0.1950967	0.24014676	2.5634109	21	3 10.0	19.4
454193 2013 GZ_{101}	17.0	X	329.00456	98.35759	115.38034	4.76526	0.1598851	0.22612071	2.6683481	21	1 29.7	20.3
454194 2013 GV_{102}	18.0	X	79.06252	111.51176	50.41275	3.24102	0.1358732	0.25562985	2.4588291	21	5 27.7	20.7
454195 2013 GK_{104}	17.4	X	101.28528	292.11978	253.92018	4.49593	0.1604652	0.27098426	2.3650483	21	8 2.4	20.8
454196 2013 GC_{106}	18.2	X	53.36853	14.50753	183.31006	0.98769	0.1275970	0.25730261	2.4481607	21	6 6.5	20.6
454197 2013 GU_{109}	16.7	X	284.68075	198.33109	67.93907	14.82065	0.1483215	0.22499162	2.6772678	21	2 18.8	20.9
454198 2013 GZ_{112}	16.7	X	252.97782	195.68661	101.30928	7.02238	0.0722589	0.22981240	2.6396950	21	2 25.7	20.5
454199 2013 GC_{126}	16.4	X	164.77586	236.03074	71.46333	11.67131	0.1383537	0.19619842	2.9331822	21	—	—
454200 2013 GN_{131}	16.7	X	220.77403	129.98654	100.12964	16.20713	0.1463944	0.20495477	2.8490322	21	—	—
454201 2013 HO_{12}	17.0	X	304.72029	59.10798	185.26597	11.91606	0.2537458	0.22881177	2.6473853	21	1 22.3	21.2
454202 2013 HV_{13}	16.3	X	105.83382	94.03977	206.26583	17.16132	0.2461185	0.17741894	3.1366741	21	12 23.1	21.9
454203 2013 HY_{16}	16.5	X	26.74827	91.78189	113.55039	2.53005	0.1335543	0.24394131	2.5367586	21	4 30.9	18.9
454204 2013 HS_{18}	16.5	X	350.15401	102.53008	76.22586	12.97953	0.0216959	0.22394376	2.6856128	21	2 5.3	20.2
454205 2013 HL_{27}	18.0	X	104.73777	129.40329	21.94244	2.89382	0.1043295	0.26126493	2.4233453	21	6 12.6	21.2
454206 2013 HU_{27}	17.2	X	339.53087	332.89102	232.84442	7.03063	0.2012586	0.22823241	2.6518636	21	1 24.9	20.6
454207 2013 HV_{27}	17.0	X	335.32584	342.00759	229.82528	9.76089	0.1320402	0.22716196	2.6601879	21	2 4.9	20.6
454208 2013 HJ_{31}	17.0	X	254.63395	52.57054	246.18962	8.22314	0.0474821	0.23439547	2.6051730	21	2 24.7	20.9
454209 2013 HS_{41}	17.5	X	122.23497	102.24964	308.99592	3.00408	0.0816041	0.22963777	2.6410330	21	2 20.0	21.0
454210 2013 HB_{47}	16.6	X	303.87185	243.56991	231.40252	10.28454	0.0685590	0.19260849	2.9695167	21	12 19.3	20.5
454211 2013 HD_{60}	17.8	X	152.01819	259.10701	241.00629	4.99947	0.1385673	0.27322705	2.3520881	21	7 24.6	21.5
454212 2013 HN_{65}	18.2	X	157.05160	156.34019	299.49803	2.33269	0.1811908	0.26239084	2.4164080	21	6 4.2	22.1
454213 2013 HQ_{72}	16.9	X	42.02395	184.46020	245.45695	3.30380	0.0484507	0.20948534	2.8078051	21	—	—
454214 2013 HR_{72}	17.3	X	117.05387	158.56034	254.20526	3.32396	0.0392978	0.22808439	2.6530107	21	2 8.7	20.8
454215 2013 HN_{90}	15.9	X	220.04026	303.99187	208.85128	11.36989	0.0466568	0.17813085	3.1283112	21	10 21.1	20.5
454216 2013 HH_{107}	18.0	X	174.65442	32.04515	50.99845	3.31621	0.1777928	0.26342529	2.4100779	21	6 3.9	21.9
454217 2013 HZ_{110}	16.8	X	340.45298	85.77487	27.93098	8.99319	0.0205072	0.20309082	2.8664378	21	—	—
454218 2013 HB_{124}	17.2	X	60.83593	116.93574	306.97808	5.26253	0.0609812	0.21499815	2.7596006	21	—	—
454219 2013 JK_{5}	16.4	X	54.15741	226.99437	111.82430	5.24122	0.1434996	0.17721998	3.1390213	21	12 9.9	20.9
454220 2013 JU_{8}	17.3	X	326.03011	124.03212	89.51237	5.17692	0.1426144	0.22616139	2.6680281	21	1 28.6	20.6
454221 2013 JK_{9}	16.0	X	124.99800	237.09684	48.93113	10.22097	0.0876455	0.18148073	3.0896957	21	12 16.0	20.8
454222 2013 JP_{15}	16.7	X	225.51020	102.01745	105.87582	11.36846	0.0561590	0.19147730	2.9812005	21	—	—
454223 2013 JG_{18}	16.8	X	94.06371	152.49619	79.59436	22.04919	0.1842799	0.27529390	2.3403007	21	10 13.3	20.8
454224 2013 JW_{18}	16.7	X	197.91915	145.33483	74.66133	4.18264	0.0392616	0.18378360	3.0638315	21	12 16.9	21.1
454225 2013 JQ_{28}	18.4	X	147.94375	95.98195	82.15124	22.99767	0.3679298	0.28169853	2.3046925	21	9 28.0	23.3
454226 2013 JQ_{36}	16.2	X	111.50596	116.81376	180.33343	19.10737	0.1685450	0.17252650	3.1956964	21	12 20.3	21.7
454227 2013 JH_{37}	16.8	X	20.47318	140.19879	55.02872	8.07743	0.1342123	0.24048165	2.5610305	21	4 6.1	19.4
454228 2013 JJ_{38}	17.2	X	62.91860	99.88273	110.21119	12.45089	0.0451971	0.25478119	2.4642862	21	6 27.7	20.1
454229 2013 JR_{42}	16.7	X	87.85746	60.58996	50.92580	6.28919	0.0868264	0.23418943	2.6067008	21	3 28.6	19.9
454230 2013 JA_{50}	17.3	X	352.84809	138.75133	59.73920	7.29586	0.1374932	0.23296129	2.6158543	21	2 20.2	20.3
454231 2013 JE_{50}	18.1	X	161.95208	336.04889	206.80138	5.59010	0.0828030	0.28435411	2.2903211	21	10 1.5	21.4
454232 2013 JG_{51}	16.9	X	271.93535	27.98806	219.90694	13.98253	0.1184901	0.21545114	2.7557312	21	1 9.7	21.3
454233 2013 JO_{51}	17.4	X	346.42213	8.95418	205.20799	7.37882	0.1398410	0.23334028	2.6130211	21	2 24.2	20.6
454234 2013 JP_{54}	18.0	X	159.45682	58.98801	89.21458	3.54600	0.1498086	0.27306115	2.3530407	21	8 15.0	21.5
454235 2013 JA_{55}	17.3	X	5.31879	132.17587	69.08694	6.58125	0.0607550	0.23454511	2.6040649	21	3 23.3	20.5
454236 2013 JQ_{61}	16.7	X	200.22359	65.71039	187.69885	4.27100	0.1663140	0.19185932	2.9772418	21	—	—
454237 2013 JY_{62}	16.4	X	8.21609	46.34174	92.12788	13.74953	0.1265441	0.22021636	2.7158326	21	—	—
454238 2013 KE_{11}	17.5	X	359.58744	14.96055	176.81475	2.81330	0.1319223	0.22982229	2.6396192	21	2 19.3	20.4
454239 2013 KV_{14}	17.3	X	231.83695	52.89009	230.16574	1.95853	0.1885440	0.21253694	2.7808641	21	1 13.6	22.0
454240 2013 LH_{1}	17.4	X	183.10256	297.02516	248.87420	5.92377	0.1585586	0.28947888	2.2632097	21	10 24.6	20.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
454241 2013 LT_1	15.7	X	65.30420	271.85156	73.17973	14.89573	0.1342574	0.17339834	3.1849754	21	12 26.9	20.4
454242 2013 LP_4	16.9	X	277.49372	160.95335	75.45081	7.55114	0.0836809	0.21484396	2.7609208	21	1 8.7	20.9
454243 2013 LB_7	16.1	X	291.67086	215.67029	84.85372	28.75571	0.0592580	0.23813132	2.5778543	21	5 2.3	20.1
454244 2013 LJ_{10}	16.0	X	139.46892	237.36140	72.12211	13.14633	0.1386188	0.18508621	3.0494394	21	—	—
454245 2013 LK_{10}	16.4	X	129.51265	251.74902	81.03035	3.19236	0.0790772	0.19101209	2.9860390	21	—	—
454246 2013 LS_{19}	16.1	X	157.98421	177.25868	63.81496	6.91494	0.1323331	0.17322126	3.1871457	21	11 25.7	21.2
454247 2013 LT_{22}	15.3	X	62.09837	277.06805	71.11262	17.27000	0.0871704	0.17321308	3.1872461	21	12 20.5	19.9
454248 2013 LB_{24}	17.2	X	292.13447	109.37156	219.52093	13.31366	0.0558290	0.24638320	2.5199697	21	5 26.8	20.4
454249 2013 LJ_{28}	17.0	X	341.76387	53.26452	156.39696	13.72581	0.1326431	0.22677515	2.6632120	21	2 14.9	20.3
454250 2013 NO_9	16.7	X	217.52921	356.94539	243.71719	2.82472	0.1668263	0.18414422	3.0598301	21	—	—
454251 2013 OZ_1	16.7	X	41.45802	276.20692	264.38061	8.00918	0.1582353	0.21689492	2.7434884	21	4 24.5	19.8
454252 2013 OX_5	17.4	X	90.62093	331.16382	262.00381	5.74271	0.1960615	0.26188683	2.4195073	21	9 24.7	21.0
454253 2013 PL_{22}	16.6	X	175.33316	77.31201	213.36474	8.47320	0.0711526	0.17366992	3.1816542	21	—	—
454254 2013 PM_{47}	15.0	X	303.50404	225.87413	299.84898	16.31394	0.1709024	0.17354745	3.1831508	21	—	—
454255 2013 QQ_{44}	14.2	X	285.32576	31.52220	268.16214	2.49899	0.0490709	0.08376172	5.1733553	21	4 22.8	21.1
454256 2013 RD_{85}	16.1	X	157.63319	120.87541	225.71492	8.32958	0.0684362	0.17448303	3.1717620	21	1 19.2	20.9
454257 2013 RH_{98}	13.3	X	270.00348	280.31410	81.40699	16.48337	0.0709445	0.08591595	5.0865132	21	6 12.8	20.1
454258 2013 SD_{10}	15.7	X	135.78278	14.49513	357.51113	15.32705	0.0853112	0.17845903	3.1244748	21	2 2.9	20.5
454259 2013 SH_{23}	15.8	X	218.33080	74.00379	182.77303	13.54536	0.1785010	0.17157835	3.2074586	21	—	—
454260 2013 TO	15.5	X	192.15078	61.60435	255.02629	17.90222	0.0983379	0.18102504	3.0948785	21	1 17.6	20.5
454261 2013 TM_{33}	16.0	X	22.49564	285.26254	188.09766	6.49525	0.0592827	0.17373906	3.1808101	21	1 2.7	20.3
454262 2014 BG_9	18.0	X	70.14302	59.11214	282.18754	20.22692	0.1096649	0.37292831	1.9115507	21	—	—
454263 2014 DC_{124}	17.8	X	320.66009	241.65022	21.98279	5.68096	0.1209564	0.28403356	2.2920440	21	3 22.8	20.3
454264 2014 EP_{24}	17.7	X	322.03037	326.31824	145.66463	23.34917	0.0622485	0.36776626	1.9293964	21	—	—
454265 2014 EY_{32}	18.2	X	174.62960	244.70632	10.00960	20.18501	0.0526231	0.36212644	1.9493772	21	—	—
454266 2014 FM_7	18.9	X	126.58120	332.30353	109.74608	19.05212	0.2910816	0.42253401	1.7588478	21	4 27.4	21.4
454267 2014 FS_{20}	17.5	X	309.93180	197.95774	71.39468	4.80779	0.0464718	0.27955921	2.3164353	21	3 29.5	20.2
454268 2014 FN_{55}	17.5	X	323.15917	230.21339	40.19946	4.99465	0.2431207	0.26925790	2.3751465	21	3 18.9	20.1
454269 2014 FC_{68}	17.6	X	347.53383	173.24322	92.89961	5.08787	0.1591702	0.28565361	2.2833697	21	5 8.5	19.4
454270 2014 GM_{30}	18.5	X	27.27687	257.80045	40.43486	4.20477	0.1595684	0.31101802	2.1574745	21	10 5.3	20.3
454271 2014 HN	17.9	X	318.09087	255.29572	52.96859	6.02210	0.2335575	0.28378675	2.2933727	21	5 3.4	20.2
454272 2014 HJ_2	17.6	X	201.22215	159.34684	97.62793	23.56808	0.0534319	0.36334376	1.9450208	21	—	—
454273 2014 HU_{10}	18.4	X	33.94763	191.10490	107.40903	1.61909	0.1899749	0.31170109	2.1543214	21	10 22.2	20.5
454274 2014 HQ_{20}	17.9	X	288.65751	296.02892	2.67862	2.50293	0.1856451	0.27133091	2.3630335	21	3 19.2	21.0
454275 2014 HR_{28}	17.6	X	286.62451	244.98480	61.85283	5.10129	0.2469392	0.27179899	2.3603197	21	3 22.6	21.1
454276 2014 HU_{30}	18.3	X	326.82031	152.67984	140.60602	3.76210	0.2109334	0.28248201	2.3004291	21	5 1.5	20.4
454277 2014 HB_{31}	17.1	X	173.41596	121.56640	174.96470	8.42830	0.2775217	0.22246151	2.6975291	21	—	—
454278 2014 HX_{36}	18.0	X	248.69084	242.73862	131.53707	5.22817	0.1321304	0.28953815	2.2629008	21	5 20.8	21.1
454279 2014 HO_{47}	18.2	X	338.06104	186.16914	145.22769	3.71858	0.0983796	0.30647330	2.1787511	21	8 11.1	20.0
454280 2014 HE_{101}	18.2	X	221.36683	284.38660	119.51816	2.57565	0.1472415	0.29482472	2.2357682	21	5 28.7	21.3
454281 2014 HP_{125}	18.1	X	351.79015	268.13030	30.58639	5.74971	0.2094557	0.29535345	2.2330992	21	7 12.7	19.4
454282 2014 HA_{133}	17.1	X	329.17690	63.11504	212.58188	21.88326	0.2300353	0.26984639	2.3716921	21	4 2.8	19.8
454283 2014 HE_{133}	17.5	X	262.51309	350.03657	296.90272	0.32383	0.1669467	0.26170688	2.4206163	21	2 8.4	21.1
454284 2014 HU_{145}	18.0	X	301.66866	156.49796	137.07027	4.67419	0.1040822	0.28328182	2.2960971	21	4 10.7	20.7
454285 2014 HZ_{160}	18.1	X	329.44252	222.55456	121.51577	5.77505	0.1144294	0.30792026	2.1719202	21	8 14.9	19.6
454286 2014 HV_{178}	17.1	X	234.16228	228.30192	49.02533	6.72718	0.1165063	0.25012565	2.4947703	21	1 5.3	21.0
454287 2014 HV_{186}	17.9	X	345.74233	97.35822	182.32348	5.55886	0.1659285	0.28379946	2.2933042	21	5 26.2	19.7
454288 2014 JL_2	16.8	X	230.29438	186.17108	86.28969	16.99155	0.2736559	0.22399807	2.6851787	21	—	—
454289 2014 JA_4	17.8	X	15.16813	262.04082	41.00353	5.92927	0.1415333	0.30640631	2.1790687	21	9 17.7	19.6
454290 2014 JE_7	17.9	X	286.06664	225.02287	71.55768	5.80078	0.2324299	0.26416368	2.4055847	21	3 12.0	21.5
454291 2014 JG_8	17.8	X	254.88495	170.81579	131.79719	3.37311	0.1970824	0.25561800	2.4589051	21	2 19.9	21.7
454292 2014 JS_8	17.8	X	307.32377	226.47503	89.32317	3.28813	0.2226697	0.27931258	2.3177987	21	4 30.5	20.4
454293 2014 JX_{14}	18.0	X	243.36359	226.07606	117.17171	4.04320	0.2034703	0.26636011	2.3923420	21	3 31.8	21.8
454294 2014 JB_{23}	17.2	X	319.78988	235.05674	83.30057	8.45257	0.1349265	0.28586567	2.2822404	21	6 8.9	19.3
454295 2014 JT_{24}	17.6	X	228.38959	187.42323	99.21765	23.07040	0.0678915	0.38603750	1.8680266	21	—	—
454296 2014 JF_{26}	16.7	X	215.28348	144.68768	119.31901	14.30011	0.1471516	0.22865070	2.6486284	21	—	—
454297 2014 JJ_{28}	17.8	X	8.82672	111.57284	154.87160	4.01880	0.1482685	0.28880026	2.2667537	21	6 26.9	19.4
454298 2014 JW_{30}	17.7	X	125.00147	286.19256	91.08875	25.01215	0.0528324	0.38055484	1.8859256	21	—	—
454299 2014 JA_{37}	17.0	X	159.28799	222.81993	67.54144	8.81538	0.2016119	0.21545628	2.7556874	21	—	—
454300 2014 JC_{39}	18.3	X	35.93848	160.59715	124.88998	3.44890	0.1512754	0.30431753	2.1890284	21	9 28.4	20.4
454301 2014 JW_{41}	18.3	X	21.36892	219.47324	79.40046	1.92176	0.1199121	0.30521426	2.1847387	21	9 17.4	20.1
454302 2014 JX_{41}	16.9	X	116.98812	211.26328	91.35825	7.07733	0.1837837	0.20358311	2.8618149	21	—	—
454303 2014 JR_{43}	17.7	X	2.80658	152.35894	125.99956	5.83033	0.1549068	0.28683438	2.2770990	21	7 3.6	19.4
454304 2014 JN_{55}	17.6	X	44.93278	343.10431	83.54246	23.51750	0.0907906	0.36613096	1.9351371	21	—	—
454305 2014 JW_{64}	17.7	X	195.00336	348.31334	65.70524	6.83488	0.1013834	0.28349754	2.2949322	21	5 16.0	20.8
454306 2014 JU_{65}	17.8	X	280.40613	215.06292	127.04878	5.31007	0.1722542	0.28114278	2.3077287	21	5 10.1	20.8
454307 2014 JJ_{66}	17.9	X	292.89668	238.60778	99.86433	3.22448	0.1753701	0.28322546	2.2964017	21	5 19.7	20.5
454308 2014 JR_{66}	17.3	X	176.50130	209.31039	70.25919	17.17638	0.2222465	0.21737162	2.7394759	21	—	—
454309 2014 JS_{69}	17.8	X	258.38365	283.70677	29.95942	3.02225	0.2058763	0.26008856	2.4306470	21	3 8.1	21.5
454310 2014 JR_{70}	17.2	X	315.35413	38.00740	252.21978	4.31279	0.2038700	0.27416936	2.3466956	21	4 6.1	19.8
454311 2014 JC_{71}	17.9	X	268.67161	38.92851	274.80903	3.62795	0.1825972	0.26480904	2.4016746	21	3 16.3	21.7
454312 2014 JH_{73}	17.9	X	297.02214	82.72206	208.69345	3.35209	0.2215363	0.26554477	2.3972365	21	3 14.1	21.3
454313 2014 JJ_{74}	18.8	X	62.96075	36.72075	247.46453	2.06161	0.1699686	0.31429035	2.1424730	21	11 6.5	21.4
454314 2014 KK_6	17.5	X	145.86479	195.36017	95.28913	2.71419	0.2156616	0.21201312	2.7854427	21	—	—
454315 2014 KF_{12}	17.2	X	217.70160	233.24150	67.68438	11.17431	0.0697371	0.24238021	2.5476393	21	1 20.3	21.0
454316 2014 KS_{18}	16.7	X	77.72581	84.43295	212.61662	8.84480	0.1317682	0.18870968	3.0102779	21	11 17.4	21.1
454317 2014 KK_{19}	17.3	X	186.97347	95.50793	222.85794	11.86607	0.1865428	0.23490675	2.6013915	21	1 12.5	21.8
454318 2014 KR_{20}	18.1	X	23.37132	137.50604	148.43180	6.76935	0.1315356	0.29881487	2.2158205	21	8 31.5	20.0
454319 2014 KV_{20}	16.8	X	167.14976	230.04547	107.70950	14.42108	0.2788808	0.22681824	2.6628747	21	1 29.2	21.4
454320 2014 KC_{32}	17.5	X	199.59879	219.48403	98.22246	6.02704	0.0970945	0.24058020	2.5603311	21	1 21.7	21.3

Planet		H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
		m		°	°	°	°		°				
454321	2014 KQ_{40}	17.6	X	281.61218	231.83281	96.14578	11.15843	0.2437836	0.27505280	2.3416681	21	4 17.2	21.2
454322	2014 KF_{44}	16.9	X	56.84686	121.48808	192.04791	16.72920	0.2476536	0.17448899	3.1716897	21	11 27.5	21.7
454323	2014 KK_{45}	17.8	X	231.24751	189.95609	100.98873	24.33111	0.0324440	0.38591528	1.8684210	21	—	—
454324	2014 KP_{45}	18.2	X	59.76712	359.63527	73.53248	22.67835	0.1523794	0.37807258	1.8941713	21	—	—
454325	2014 KR_{45}	17.5	X	15.44720	320.99918	128.60078	23.77249	0.0736471	0.36427943	1.9416888	21	—	—
454326	Donlee	16.7	X	242.12507	223.63928	60.02714	13.64585	0.2182685	0.23437222	2.6053453	21	1 21.3	21.3
454327	2014 KP_{54}	18.2	X	291.71474	106.47807	191.24870	5.52653	0.1946918	0.26456838	2.4031309	21	3 20.4	21.4
454328	2014 KX_{56}	16.6	X	93.31763	309.25008	91.93756	18.40225	0.0838482	0.23273051	2.6175832	21	—	—
454329	Ericpiquette	17.1	X	160.70757	182.52661	122.46513	10.17021	0.2121321	0.21498537	2.7597100	21	—	—
454330	2014 KZ_{75}	17.6	X	285.81849	166.39554	178.35020	1.47072	0.2632847	0.28213831	2.3022970	21	5 5.8	20.9
454331	2014 KQ_{80}	18.5	X	18.31385	49.91106	231.29364	0.39779	0.1835933	0.29537219	2.2330048	21	8 19.5	20.0
454332	2014 KA_{85}	17.6	X	44.92143	7.46028	95.13057	24.00470	0.0509930	0.37846517	1.8928612	21	—	—
454333	2014 KP_{86}	17.9	X	47.32098	188.50570	78.79308	4.97242	0.1825539	0.30020868	2.2089568	21	9 25.7	20.3
454334	2014 KU_{87}	17.8	X	274.40283	141.96576	197.93045	7.95766	0.1751634	0.27748466	2.3279665	21	4 28.5	20.9
454335	2014 KW_{90}	17.0	X	180.28669	163.99155	165.14052	15.18220	0.2914535	0.22605094	2.6688972	21	1 26.9	21.9
454336	2014 KM_{95}	17.2	X	232.13959	276.03189	106.71770	22.95114	0.1973394	0.27285508	2.3542253	21	5 17.8	21.4
454337	2014 KM_{98}	18.1	X	316.61735	175.17691	158.81512	2.65582	0.1022564	0.28819597	2.2699212	21	7 2.9	20.4
454338	2014 KW_{98}	17.9	X	162.00937	57.85385	234.56331	20.82758	0.0169434	0.36176694	1.9506685	21	—	—
454339	2014 LM	15.8	X	70.23270	196.81638	106.05481	18.95036	0.1876886	0.18168247	3.0874080	21	11 26.3	20.6
454340	2014 LY_{12}	18.0	X	347.05489	190.07988	90.02476	3.02086	0.1642633	0.28075397	2.3098589	21	5 29.5	19.7
454341	2014 LS_{13}	17.0	X	315.12663	187.50138	105.67967	8.54857	0.1088438	0.26278759	2.4139753	21	5 3.5	19.9
454342	2014 LC_{15}	16.4	X	221.13093	169.62769	118.60212	14.78176	0.2585915	0.22400391	2.6851321	21	1 9.5	21.2
454343	2014 LL_{15}	17.8	X	352.78581	3.84165	252.06309	4.45662	0.1801727	0.26665448	2.3905810	21	4 30.0	19.7
454344	2014 LQ_{15}	18.0	X	327.53321	155.27587	117.37572	3.91275	0.2018131	0.26213853	2.4179583	21	4 6.4	20.5
454345	2014 LE_{18}	17.8	X	303.26245	95.48751	211.16824	5.69862	0.1449782	0.27409343	2.3471290	21	4 23.8	20.6
454346	2014 LH_{19}	17.5	X	188.79662	194.64129	116.85702	7.20369	0.2279361	0.22809305	2.6529436	21	1 11.5	22.0
454347	2014 LB_{21}	18.2	X	29.55917	34.05226	84.41440	23.31818	0.0836939	0.38006726	1.8875382	21	—	—
454348	2014 LP_{22}	18.4	X	61.33188	298.61734	328.49248	1.28442	0.1567516	0.30629097	2.1796156	21	10 8.2	20.9
454349	2014 LY_{22}	16.4	X	172.47780	244.52981	83.17829	16.75915	0.2016920	0.22579866	2.6708847	21	1 16.7	20.9
454350	Paolaamico	16.8	X	255.85247	232.03127	56.71372	12.20832	0.1760051	0.23990696	2.5651188	21	2 11.7	21.1
454351	2014 LH_{25}	16.4	X	190.64455	264.31132	87.92335	5.85982	0.2670115	0.24079547	2.5588049	21	3 3.6	21.0
454352	Majidzandian	15.6	X	262.38486	48.06790	268.02875	28.57329	0.0536348	0.23764749	2.5813520	21	3 15.6	20.1
454353	2014 LD_{28}	17.8	X	314.29152	175.25756	117.82976	4.91477	0.2358691	0.27055701	2.3675374	21	4 8.4	20.5
454354	2014 ME	16.3	X	189.55076	186.75153	173.33147	9.29924	0.2192430	0.24204113	2.5500181	21	3 7.7	20.5
454355	2014 MJ_{7}	17.2	X	238.15896	182.50151	63.85833	11.38565	0.1060440	0.23046360	2.6347201	21	—	—
454356	2014 MK_{7}	17.9	X	255.06727	284.99477	19.92438	1.00678	0.2095177	0.25215424	2.4813719	21	2 22.3	22.0
454357	2014 MZ_{11}	16.8	X	182.48783	175.97333	125.94107	7.99346	0.1126349	0.21245684	2.7815630	21	—	—
454358	2014 MZ_{12}	16.2	X	94.01120	170.85127	138.63048	16.19807	0.2534288	0.17595278	3.1540745	21	12 26.7	21.6
454359	2014 MF_{17}	16.2	X	129.56744	168.34463	145.53467	15.44682	0.0517995	0.18747380	3.0234932	21	—	—
454360	2014 MD_{21}	17.7	X	325.21018	68.33317	245.77584	5.75712	0.1586879	0.28322366	2.2964114	21	6 8.6	19.6
454361	2014 MY_{23}	16.6	X	240.75789	173.78332	114.16439	9.16036	0.1663632	0.23222495	2.6213809	21	1 25.4	20.9
454362	2014 MZ_{23}	16.0	X	94.63107	211.01703	117.05608	12.43670	0.2924590	0.18377938	3.0638784	21	—	—
454363	2014 MF_{24}	17.9	X	18.53080	172.21690	103.85608	7.09929	0.0922192	0.28299661	2.2976395	21	7 30.9	20.1
454364	2014 MX_{36}	16.5	X	91.76929	257.55753	78.47549	4.40389	0.1515788	0.18683896	3.0303381	21	—	—
454365	2014 MH_{38}	16.8	X	158.90151	214.22182	128.17403	4.58563	0.0981794	0.20960784	2.8067110	21	1 14.2	21.0
454366	2014 MR_{39}	17.0	X	332.62623	190.27479	91.25355	6.92311	0.1029682	0.26282748	2.4137310	21	5 14.2	19.7
454367	2014 MW_{42}	17.5	X	171.96972	123.70638	193.48149	10.10058	0.2903000	0.22147373	2.7055438	21	1 8.2	22.4
454368	2014 MJ_{43}	15.8	X	139.96939	38.45057	276.45944	9.06444	0.0967443	0.19113337	2.9847758	21	—	—
454369	2014 MT_{43}	17.8	X	329.56988	172.46317	124.79808	5.77223	0.1947281	0.27134539	2.3629494	21	5 17.8	20.0
454370	2014 MC_{44}	17.1	X	308.53520	153.14691	223.08835	3.55742	0.2674863	0.28240427	2.3008512	21	7 25.3	18.9
454371	2014 MX_{45}	17.9	X	327.24993	205.49700	82.63491	3.49422	0.1727897	0.26959507	2.3731659	21	5 2.1	20.3
454372	2014 MQ_{46}	16.8	X	205.74077	99.73569	216.63656	11.36488	0.1470544	0.22591467	2.6699703	21	1 25.7	21.4
454373	2014 ME_{47}	16.8	X	167.41852	289.70445	64.79603	9.19628	0.3028220	0.21590361	2.7518797	21	2 23.2	21.8
454374	2014 ML_{47}	18.0	X	322.92535	66.55998	211.13004	6.02394	0.1926404	0.27065822	2.3669472	21	4 3.2	20.7
454375	2014 MT_{48}	16.2	X	92.47208	161.50759	275.67743	21.12370	0.0376254	0.22704350	2.6611131	21	2 1.2	20.0
454376	2014 MM_{49}	17.5	X	164.49843	352.31177	20.91164	2.40728	0.1045909	0.23255798	2.6188777	21	2 24.7	21.4
454377	2014 MR_{52}	16.4	X	37.58031	241.75825	284.68226	13.40289	0.1438300	0.24156076	2.5533977	21	3 15.3	19.4
454378	2014 MP_{55}	17.2	X	323.79245	0.28906	101.94664	9.77402	0.0298721	0.19269029	2.9686762	21	—	—
454379	2014 MD_{56}	18.1	X	61.15464	124.88090	118.09576	4.63926	0.1550810	0.28896651	2.2658842	21	9 3.0	20.6
454380	2014 ME_{56}	18.2	X	6.95348	151.03889	109.89096	3.30632	0.1432022	0.27314290	2.3525712	21	6 13.7	20.2
454381	2014 MM_{57}	16.6	X	201.34101	201.27700	100.30771	8.99578	0.0271639	0.21710007	2.7417598	21	1 5.0	20.5
454382	2014 MJ_{58}	16.5	X	77.48851	160.93336	193.24108	11.83629	0.1242841	0.18645708	3.0344743	21	—	—
454383	2014 MF_{61}	16.0	X	204.95176	328.07842	310.35405	13.65430	0.1579355	0.21146275	2.7902737	21	—	—
454384	2014 MR_{62}	16.4	X	9.94993	336.29156	128.35934	16.07889	0.0948725	0.20424159	2.8556607	21	—	—
454385	2014 MH_{63}	16.5	X	98.81600	202.99862	120.39639	13.08596	0.1426535	0.18277585	3.0750830	21	—	—
454386	2014 MZ_{63}	17.6	X	66.01132	333.49376	256.77531	6.03886	0.1410346	0.28480755	2.2878896	21	8 15.0	20.3
454387	2014 MD_{64}	17.5	X	314.56538	280.13483	294.04552	21.90724	0.1111808	0.37510912	1.9041346	21	—	—
454388	2014 ME_{69}	17.6	X	197.10328	201.92062	106.16473	24.23836	0.0542739	0.36416594	1.9420921	21	—	—
454389	2014 MJ_{69}	16.5	X	252.13113	262.09411	46.74508	9.03864	0.2294829	0.24529782	2.5273977	21	2 28.2	20.8
454390	2014 ND_{11}	17.7	X	316.49644	181.04368	93.80215	3.16061	0.1375671	0.26048123	2.4282036	21	4 2.8	20.6
454391	2014 NG_{17}	15.7	X	77.45133	197.10633	100.56150	16.31029	0.1225143	0.18247931	3.0784136	21	11 19.8	20.4
454392	2014 NB_{18}	16.9	X	28.42915	75.43500	143.43530	8.19519	0.0620641	0.27613243	2.3355604	21	5 19.5	19.5
454393	2014 NS_{18}	16.6	X	119.93265	206.44924	244.73050	12.50865	0.2100802	0.23704554	2.5857202	21	4 24.5	20.6
454394	2014 NF_{21}	16.5	X	86.37391	71.09837	227.97956	12.24803	0.1184366	0.17229845	3.1985156	21	11 24.6	21.2
454395	2014 NO_{21}	16.1	X	103.30968	120.35169	243.41754	16.32765	0.1571791	0.19878772	2.9076559	21	—	—
454396	2014 NL_{26}	17.2	X	340.65621	6.64507	270.42912	5.95719	0.0912989	0.26880501	2.3778136	21	5 19.7	19.7
454397	2014 NU_{30}	17.0	X	153.04190	167.61931	243.74162	4.88266	0.1231088	0.23830637	2.5765918	21	3 30.4	20.8
454398	2014 NY_{30}	17.9	X	81.25564	1.53241	190.38111	4.47031	0.0216905	0.27165056	2.3611794	21	6 24.1	20.9
454399	2014 NJ_{31}	16.7	X	212.60433	206.00498	129.16239	6.49129	0.0993158	0.23541526	2.5976441	21	2 26.9	20.5
454400	2014 NK_{31}	17.2	X	271.48325	217.99375	132.37481	6.69016	0.1506250	0.26244924	2.4160495	21	5 15.1	20.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
454401 2014 NF_{34}	15.8	X	262.48763	69.45615	70.21553	13.20359	0.0207613	0.17715296	3.1398129	21	11 28.5	20.2
454402 2014 NM_{35}	16.4	X	219.89161	200.77831	75.95549	11.46646	0.0880283	0.21495610	2.7599605	21	—	—
454403 2014 NW_{35}	16.9	X	12.36689	252.42694	53.04409	10.70132	0.0674575	0.28374046	2.2936221	21	9 7.8	19.5
454404 2014 NF_{37}	15.8	X	117.11418	354.85915	301.59511	19.10010	0.0970423	0.17904717	3.1176288	21	12 23.0	20.7
454405 2014 NZ_{38}	15.4	X	70.28930	238.25808	93.67138	27.96736	0.3036509	0.17486914	3.1670914	21	—	—
454406 2014 NT_{43}	17.2	X	303.15019	356.06193	241.66454	12.47578	0.1021833	0.23406251	2.6076431	21	1 28.9	21.0
454407 2014 NA_{44}	16.7	X	73.82377	118.67279	212.87239	11.52218	0.1594349	0.17484888	3.1673360	21	12 23.3	21.6
454408 2014 NJ_{44}	16.7	X	312.28065	340.05056	261.14179	13.17533	0.0833898	0.23753473	2.5821689	21	2 14.3	20.5
454409 Markusloose	16.5	X	71.42527	227.60000	271.41503	14.31251	0.0806397	0.24086227	2.5583317	21	3 29.3	20.0
454410 2014 NS_{45}	16.4	X	270.14820	48.79162	268.84144	5.41904	0.1493998	0.25261465	2.4783560	21	3 26.7	20.2
454411 2014 NC_{47}	16.8	X	24.98487	220.35971	170.09201	16.94517	0.1938413	0.17355764	3.1830263	21	—	—
454412 2014 NY_{47}	17.5	X	20.44231	355.65418	272.74496	5.74678	0.1626967	0.28117280	2.3075645	21	7 27.6	19.3
454413 2014 NL_{50}	17.2	X	171.30459	100.50000	196.73061	14.55389	0.1586518	0.20581708	2.8410689	21	—	—
454414 2014 NJ_{54}	16.5	X	165.38087	265.87261	66.38900	4.35967	0.0944158	0.21205871	2.7850435	21	1 8.7	20.5
454415 2014 NN_{54}	16.4	X	62.04036	292.67053	79.22734	8.14149	0.1828270	0.18206276	3.0831073	21	—	—
454416 2014 NZ_{54}	16.1	X	80.47708	275.51127	86.39765	9.30315	0.1490969	0.18666952	3.0321716	21	—	—
454417 2014 NV_{56}	16.2	X	47.34188	286.29223	106.85781	17.28667	0.2382187	0.17843616	3.1247418	21	—	—
454418 2014 NJ_{57}	16.0	X	160.24601	207.58106	97.18441	13.95794	0.0983793	0.20038681	2.8921665	21	—	—
454419 Hansklausreif	17.2	X	291.97912	183.16241	106.76388	11.71854	0.0677561	0.24571212	2.5245559	21	4 7.0	20.8
454420 2014 NJ_{59}	16.3	X	79.66596	250.65372	110.88088	9.21640	0.1695092	0.18566965	3.0430477	21	—	—
454421 2014 NA_{61}	16.1	X	162.98482	25.96938	301.74729	12.50820	0.0686192	0.21955131	2.7213143	21	—	—
454422 2014 NZ_{61}	17.3	X	328.20153	200.37273	76.14160	7.01255	0.1607451	0.26575960	2.3959444	21	4 20.7	19.8
454423 2014 NH_{62}	17.0	X	180.47403	271.07258	90.30230	10.71595	0.1328936	0.23336153	2.6128624	21	3 3.9	21.2
454424 2014 NZ_{63}	16.0	X	261.01631	11.38700	292.19902	25.42335	0.0865395	0.23776146	2.5805270	21	2 23.8	20.3
454425 2014 OF	17.3	X	202.20755	326.27705	7.76956	3.56583	0.1688250	0.23121096	2.6290395	21	2 16.6	21.5
454426 2014 OK_{3}	16.5	X	96.41838	312.49108	36.85078	2.22530	0.1864866	0.19029247	2.9935624	21	—	—
454427 2014 OW_{6}	17.4	X	81.78145	74.23168	272.03292	1.40863	0.2257377	0.18399501	3.0614841	21	—	—
454428 2014 OD_{13}	17.1	X	155.88512	239.21897	114.96182	5.83331	0.0563908	0.22207180	2.7006840	21	1 18.6	20.8
454429 2014 OP_{13}	16.2	X	36.51136	31.98535	312.68372	8.80994	0.0710315	0.17121114	3.2120432	21	11 10.5	20.8
454430 2014 OL_{14}	17.8	X	24.99125	343.07325	296.43430	5.49644	0.1201803	0.28668966	2.2778653	21	8 18.8	19.9
454431 2014 OR_{14}	18.3	X	91.67498	14.02681	227.92525	1.08758	0.1262286	0.30093956	2.2053788	21	10 6.4	21.1
454432 2014 OD_{15}	16.6	X	65.85553	43.72759	303.07416	8.88626	0.1115342	0.18212798	3.0823712	21	12 29.6	21.1
454433 2014 OS_{16}	17.3	X	266.99560	76.45590	144.39560	5.21788	0.0262650	0.21660742	2.7459155	21	—	—
454434 2014 OA_{18}	17.3	X	126.49388	109.11648	252.39817	2.61948	0.1067803	0.21109087	2.7935498	21	1 1.7	21.1
454435 2014 OH_{19}	17.9	X	200.00251	132.64243	186.38627	1.48753	0.0919131	0.22589973	2.6700880	21	1 25.1	22.0
454436 2014 OK_{19}	17.4	X	159.90088	78.02391	252.64957	2.57495	0.0952229	0.21373728	2.7704429	21	—	—
454437 2014 OQ_{19}	17.7	X	319.74077	39.31105	221.64339	1.05337	0.1597451	0.25576388	2.4579700	21	3 14.0	20.7
454438 2014 OG_{22}	17.1	X	185.21402	54.73220	278.71311	3.69577	0.0236946	0.22590495	2.6700469	21	1 22.9	20.8
454439 2014 OZ_{24}	17.0	X	67.41597	208.28490	114.22798	1.12278	0.2170480	0.17270583	3.1934838	21	12 13.5	21.7
454440 2014 OB_{26}	17.2	X	148.59508	236.26773	116.74286	6.56479	0.0372502	0.21792647	2.7348241	21	1 6.8	20.8
454441 2014 OK_{26}	16.5	X	65.37667	31.35072	300.72035	5.62418	0.1795846	0.17457643	3.1706305	21	12 18.3	21.2
454442 2014 OT_{26}	17.7	X	180.87954	57.91897	289.91050	1.16778	0.1120445	0.22655956	2.6649012	21	2 10.6	21.7
454443 2014 OQ_{29}	16.5	X	7.30034	206.08232	307.70247	10.84764	0.0772040	0.22990084	2.6390179	21	1 18.3	19.5
454444 2014 OD_{30}	17.4	X	201.87185	308.05178	359.49996	1.54854	0.0649199	0.22298843	2.6932779	21	1 13.4	21.4
454445 2014 OF_{30}	17.2	X	174.61013	78.41751	332.28125	1.09433	0.1489163	0.24674309	2.5175188	21	4 22.9	21.2
454446 2014 ON_{30}	17.2	X	105.80925	47.36602	343.63650	1.20341	0.0928502	0.21395808	2.7685365	21	1 9.9	20.7
454447 2014 OD_{31}	17.8	X	174.85490	70.93440	320.51584	4.10966	0.0861778	0.24168081	2.5525520	21	3 25.7	21.6
454448 2014 OF_{35}	16.9	X	233.57254	199.94467	113.98401	13.14599	0.1749814	0.23613599	2.5923557	21	2 20.5	21.2
454449 2014 OC_{37}	17.4	X	129.72957	313.29015	17.58900	2.04130	0.0928218	0.20070986	2.8890623	21	—	—
454450 2014 OY_{37}	17.3	X	332.52439	90.02731	128.20067	13.67260	0.1267338	0.24348276	2.5399426	21	2 11.7	20.4
454451 2014 OM_{39}	17.0	X	20.46861	296.70069	85.27741	2.47938	0.1760063	0.17141692	3.2094720	21	12 20.9	21.1
454452 2014 OW_{39}	17.1	X	197.95395	4.53460	340.15459	4.99811	0.0543853	0.23316456	2.6143337	21	2 21.9	20.8
454453 2014 OR_{40}	17.3	X	142.70280	336.29357	103.24689	5.66250	0.0748327	0.24715142	2.5147451	21	4 23.2	20.8
454454 2014 OS_{41}	17.5	X	115.13488	296.68382	60.05316	3.15123	0.0891586	0.20379511	2.8598299	21	—	—
454455 2014 OL_{42}	17.3	X	215.68676	197.01105	90.62632	6.10684	0.0843533	0.22026208	2.7154568	21	1 4.5	21.5
454456 2014 OQ_{42}	17.3	X	245.86867	270.38590	35.97775	3.71801	0.1339223	0.23869697	2.5737801	21	2 23.2	21.3
454457 2014 OW_{43}	17.3	X	104.14158	8.01903	30.41028	2.02060	0.0994981	0.21674326	2.7447681	21	1 17.7	20.7
454458 2014 OC_{44}	18.2	X	119.63721	357.22211	140.86598	2.90545	0.0251006	0.26677783	2.3898441	21	6 2.8	21.2
454459 2014 OV_{45}	17.4	X	126.00906	333.01612	116.23387	5.02421	0.1168785	0.24497205	2.5296379	21	4 21.1	20.9
454460 2014 OY_{47}	17.1	X	110.45871	237.20770	112.01203	3.36413	0.0969114	0.19902400	2.9053542	21	—	—
454461 2014 OC_{52}	17.3	X	146.16455	212.39821	108.96289	3.03293	0.0624842	0.20360742	2.8615872	21	—	—
454462 2014 OX_{52}	17.7	X	211.46548	167.73881	151.16775	1.49153	0.0960857	0.22844857	2.6501905	21	2 5.4	21.5
454463 2014 OY_{52}	17.0	X	155.73058	195.02795	135.82412	5.13793	0.0697220	0.21057360	2.7981228	21	—	—
454464 2014 OS_{53}	16.8	X	53.58343	255.19606	127.51714	13.66188	0.1852390	0.18386034	3.0629790	21	—	—
454465 2014 OQ_{54}	17.2	X	178.25786	206.48898	103.90683	3.21357	0.0580347	0.21190402	2.7863987	21	—	—
454466 2014 OF_{58}	16.9	X	139.55015	301.49227	98.64483	5.83531	0.0992212	0.22849529	2.6498292	21	3 4.5	20.7
454467 2014 OY_{58}	16.2	X	91.99241	20.48568	324.45699	12.15462	0.0921252	0.18971348	2.9996501	21	—	—
454468 2014 OT_{66}	17.1	X	353.84025	63.00515	130.71802	14.29527	0.1287120	0.24032526	2.5621414	21	2 11.7	19.9
454469 2014 OB_{71}	17.3	X	13.02558	154.25493	126.26452	5.60802	0.1324901	0.27824954	2.3236983	21	7 29.8	19.2
454470 2014 OL_{71}	17.1	X	257.12787	147.36359	126.65506	12.56188	0.1755773	0.23082957	2.6319346	21	1 22.6	21.4
454471 2014 OH_{73}	16.5	X	170.82381	239.62396	96.82282	14.14707	0.2811707	0.22768490	2.6561131	21	1 31.1	21.2
454472 2014 OT_{88}	17.4	X	263.51776	173.40456	158.47614	3.96112	0.0928553	0.25612925	2.4556319	21	4 17.4	20.7
454473 2014 OT_{91}	17.8	X	61.60051	70.81429	180.71101	6.53040	0.0661382	0.28980434	2.2615149	21	8 29.1	20.4
454474 2014 OG_{94}	17.1	X	107.08721	83.89303	238.28739	7.21403	0.0565090	0.19049325	2.9914585	21	—	—
454475 2014 OU_{98}	16.4	X	139.97417	359.76529	310.43222	9.74690	0.0233551	0.18829214	3.0147265	21	—	—
454476 2014 OM_{100}	16.9	X	126.64270	249.85886	139.06208	4.88041	0.0272224	0.21380704	2.7698402	21	1 23.8	20.7
454477 2014 ON_{103}	16.4	X	233.48534	304.72213	325.52084	8.12051	0.1242467	0.21403484	2.7678745	21	1 2.7	20.8
454478 2014 OM_{107}	17.7	X	262.04521	260.66646	79.47497	6.81318	0.1444331	0.25771961	2.4455192	21	4 21.9	21.3
454479 2014 OP_{108}	16.0	X	316.55341	332.45654	97.63604	9.52315	0.0794879	0.17360453	3.1824531	21	11 10.4	20.2
454480 2014 OY_{108}	18.4	X	215.26105	80.03833	62.14059	3.10772	0.0861414	0.30793660	2.1718434	21	10 14.3	20.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
454481 2014 OQ_{115}	17.2	X	155.05763	224.64422	131.62873	5.43976	0.1302135	0.21941282	2.7224592	21	1 28.5	21.1
454482 2014 OY_{121}	16.4	X	350.34212	106.97618	316.90003	10.16334	0.0813570	0.18076997	3.0977891	21	12 20.7	20.5
454483 2014 OO_{123}	17.8	X	150.36721	22.38200	9.31095	4.78029	0.1024143	0.23023082	2.6364957	21	3 4.8	21.6
454484 2014 OK_{126}	16.8	X	132.29208	269.66351	88.45363	5.45373	0.0808868	0.21090829	2.7951618	21	1 1.1	20.6
454485 2014 OG_{130}	17.7	X	62.35018	249.00442	315.77266	2.25398	0.1159984	0.27307598	2.3529555	21	6 30.2	20.2
454486 2014 OC_{137}	16.7	X	96.61108	276.01041	125.83793	12.97948	0.1000265	0.21430223	2.7655717	21	1 11.7	20.3
454487 2014 OL_{138}	17.3	X	198.40187	179.63357	137.74840	4.90751	0.1062898	0.22488669	2.6781006	21	1 22.2	21.4
454488 2014 OV_{138}	17.5	X	142.46895	183.03084	219.04786	1.17930	0.0988930	0.23291009	2.6162376	21	3 6.5	21.3
454489 2014 OZ_{138}	17.5	X	31.36658	333.82100	242.36307	2.45770	0.0787048	0.26542018	2.3979866	21	5 19.5	19.9
454490 2014 OB_{139}	18.2	X	114.71042	82.58084	139.22413	4.92306	0.1456701	0.30333250	2.1937649	21	10 9.2	21.3
454491 2014 ON_{141}	16.4	X	81.92430	195.53525	110.58919	10.14348	0.0824158	0.17425942	3.1744747	21	11 26.2	21.1
454492 2014 OW_{143}	17.2	X	171.68304	216.93599	141.69541	3.18340	0.1215019	0.22590652	2.6700345	21	2 15.6	21.0
454493 2014 OS_{144}	17.7	X	166.29936	269.78639	194.25735	1.10276	0.1412693	0.26597705	2.3946384	21	6 22.6	21.4
454494 2014 OR_{150}	17.4	X	154.90490	293.12675	66.15484	2.52657	0.1014365	0.22129280	2.7070183	21	1 29.5	21.3
454495 2014 OW_{151}	16.7	X	121.71690	316.77535	95.56806	13.65533	0.1569485	0.22745784	2.6578804	21	3 10.6	20.7
454496 2014 OP_{155}	16.5	X	227.22257	201.87350	99.30570	12.17489	0.1439651	0.23129705	2.6283871	21	1 30.9	20.7
454497 2014 OP_{170}	17.3	X	164.57550	276.86175	43.57990	5.01805	0.0578236	0.21184648	2.7869032	21	—	—
454498 2014 OM_{175}	17.1	X	126.91620	287.89016	99.01523	8.13540	0.2268866	0.21620928	2.7492854	21	2 19.4	21.2
454499 2014 OU_{176}	17.2	X	65.29587	18.07028	53.90671	7.13889	0.0561785	0.21647901	2.7470012	21	—	—
454500 2014 OD_{178}	17.3	X	115.28123	78.77442	348.88785	11.84453	0.2602501	0.22430077	2.6827624	21	3 27.4	21.3
454501 2014 OF_{178}	17.8	X	260.42450	48.48680	4.59639	5.95919	0.2306210	0.27674450	2.3321155	21	7 15.4	21.0
454502 2014 OX_{178}	17.4	X	186.83184	357.86828	74.20517	8.85623	0.1672248	0.26113989	2.4241188	21	6 1.3	21.2
454503 2014 OY_{178}	17.0	X	252.66640	332.60998	1.31285	6.42261	0.1423420	0.25121604	2.4875461	21	4 1.1	20.7
454504 2014 OD_{180}	16.6	X	158.31435	176.25809	126.27721	12.97715	0.0352530	0.19800299	2.9153333	21	—	—
454505 Suntharalingam	16.2	X	75.30292	203.57321	110.54883	11.87797	0.0940548	0.16928703	3.2363359	21	11 29.1	21.0
454506 2014 OB_{181}	16.9	X	264.89158	284.75655	85.40818	7.56623	0.0840256	0.26422900	2.4051882	21	6 10.4	20.0
454507 2014 OK_{182}	16.9	X	159.16663	255.39348	77.89496	7.40089	0.0901076	0.20898372	2.8122963	21	1 3.2	21.0
454508 2014 OQ_{184}	16.5	X	100.59095	235.10860	101.07404	11.63807	0.0477749	0.18632154	3.0359457	21	—	—
454509 2014 OG_{185}	17.4	X	171.14787	270.31080	85.20858	5.14245	0.0835873	0.22235294	2.6984071	21	2 10.5	21.4
454510 2014 OU_{185}	16.6	X	36.40906	263.58482	101.51001	12.13364	0.0756773	0.17250194	3.1959997	21	12 9.9	21.0
454511 2014 OJ_{197}	16.5	X	119.49444	169.79723	167.03059	17.06812	0.0702384	0.18632828	3.0358726	21	—	—
454512 2014 OT_{201}	18.2	X	106.79527	269.67009	285.67772	3.05348	0.0971039	0.28548402	2.2842739	21	8 15.4	21.0
454513 2014 OB_{205}	17.0	X	144.31605	314.41605	44.94700	3.95519	0.1035062	0.21272367	2.7792365	21	1 19.9	21.0
454514 2014 OA_{210}	16.5	X	42.06078	18.64346	109.97729	15.39175	0.0873797	0.22979503	2.6398280	21	2 9.3	19.6
454515 2014 OG_{212}	16.1	X	105.66142	233.33507	107.90487	4.82854	0.0857154	0.19106568	2.9854807	21	—	—
454516 2014 ON_{214}	16.1	X	53.41696	74.40262	308.71520	24.62788	0.2929438	0.18032376	3.1028974	21	—	—
454517 2014 OK_{215}	18.2	X	44.24166	172.90967	83.32220	5.74892	0.1748881	0.28884918	2.2664977	21	9 1.2	20.5
454518 2014 OA_{218}	17.7	X	8.04225	189.39259	79.25684	7.62112	0.0936720	0.27564063	2.3383377	21	6 27.6	19.8
454519 2014 OL_{220}	16.8	X	158.91629	258.73846	77.78160	7.37125	0.0773121	0.21529821	2.7570360	21	1 4.2	20.8
454520 2014 OM_{224}	16.9	X	41.55524	355.19611	49.39786	7.01856	0.0885905	0.19413965	2.9538826	21	—	—
454521 2014 OH_{226}	16.7	X	105.76954	283.99113	80.20043	10.10494	0.0592080	0.19964987	2.8992791	21	—	—
454522 2014 OX_{226}	16.4	X	130.21308	175.94070	103.18552	9.92188	0.0284799	0.17536124	3.1611637	21	12 11.3	21.1
454523 2014 OR_{240}	17.5	X	210.90991	301.99888	29.62420	1.54510	0.1036957	0.23295665	2.6158890	21	2 20.5	21.5
454524 2014 OB_{241}	16.6	X	285.22831	215.57777	151.81877	2.23219	0.3088335	0.12506940	3.9600621	21	6 4.6	22.4
454525 2014 OD_{243}	18.6	X	128.75491	119.75093	105.94082	4.66887	0.1667065	0.31010558	2.1617045	21	10 29.9	21.9
454526 2014 ON_{246}	16.1	X	39.11673	68.01698	323.55887	14.57970	0.0893893	0.18894327	3.0077964	21	—	—
454527 2014 OM_{263}	16.0	X	339.55160	328.91571	99.26590	12.12617	0.0325983	0.17869528	3.1217203	21	12 9.5	20.3
454528 2014 OZ_{273}	17.4	X	227.45452	269.52077	38.94126	6.68920	0.0537610	0.23197046	2.6232978	21	2 12.6	21.2
454529 2014 OQ_{276}	15.8	X	324.68915	38.06676	40.94733	12.31777	0.0752522	0.17411164	3.1762707	21	11 28.4	20.0
454530 2014 OW_{282}	16.5	X	81.91851	357.70569	347.31296	12.11905	0.0936353	0.18257548	3.0773325	21	—	—
454531 2014 OT_{286}	17.0	X	36.28618	184.61160	57.29865	7.36942	0.1403343	0.27321944	2.3521318	21	7 16.5	19.3
454532 2014 OP_{291}	16.4	X	35.46777	277.88032	90.05200	11.44752	0.0799682	0.17157446	3.2075071	21	12 11.8	20.9
454533 2014 OG_{308}	16.4	X	61.55882	206.99158	121.48305	12.57032	0.0846822	0.17503922	3.1650395	21	11 30.4	21.1
454534 2014 OH_{309}	16.3	X	337.66141	317.73623	122.69904	11.50465	0.0807503	0.18529135	3.0471883	21	12 24.0	20.2
454535 2014 OB_{311}	17.6	X	154.48748	343.94022	9.80710	2.58734	0.1110333	0.21792952	2.7347986	21	1 23.9	21.7
454536 2014 OX_{317}	16.4	X	13.37195	333.85058	145.87999	11.31814	0.0941476	0.19836539	2.9117815	21	—	—
454537 2014 OD_{333}	17.7	X	354.13368	203.55044	85.12878	3.02234	0.2059709	0.27824419	2.3237281	21	6 28.7	18.9
454538 2014 OW_{333}	16.3	X	123.42267	227.84844	80.06970	10.98577	0.0593011	0.18497990	3.0506076	21	—	—
454539 2014 OE_{334}	16.7	X	200.53149	49.46181	236.89634	8.30777	0.2148627	0.21466618	2.7624449	21	—	—
454540 2014 OF_{334}	16.7	X	309.33612	11.96127	270.04113	13.87131	0.1839062	0.25534292	2.4606707	21	3 16.6	20.4
454541 2014 OA_{336}	16.7	X	241.33544	227.96981	82.09176	9.88793	0.1633583	0.23845177	2.5755443	21	2 24.4	21.0
454542 2014 OS_{341}	17.2	X	203.05398	39.96702	320.31463	5.61531	0.0357620	0.23988254	2.5652929	21	3 16.1	20.9
454543 2014 OK_{342}	17.1	X	87.98804	306.56370	96.48322	7.19719	0.0357862	0.20927150	2.8097175	21	—	—
454544 2014 ON_{351}	16.3	X	354.25163	200.97071	298.52577	11.94932	0.0835741	0.21613442	2.7499202	21	—	—
454545 2014 OE_{353}	17.2	X	153.04433	157.42297	179.65296	4.49834	0.0427313	0.21217545	2.7840218	21	—	—
454546 2014 OP_{354}	17.5	X	41.86238	16.55164	247.88591	5.95361	0.0597324	0.28544200	2.2844981	21	8 14.4	20.1
454547 2014 OA_{355}	17.0	X	11.01364	241.53513	180.72237	2.12341	0.1337270	0.18531890	3.0468863	21	—	—
454548 2014 OT_{364}	17.0	X	175.70237	307.91015	17.16397	2.57709	0.0505443	0.21335371	2.7737624	21	1 7.0	20.9
454549 2014 ON_{377}	17.1	X	133.62044	194.34850	135.76485	3.31507	0.1577069	0.20041366	2.8919082	21	—	—
454550 2014 OG_{385}	17.2	X	266.55344	20.28960	254.71715	4.32795	0.1542556	0.23879232	2.5730949	21	1 31.6	21.2
454551 2014 OJ_{385}	17.3	X	159.70815	103.44590	244.81234	3.89377	0.1315135	0.21835041	2.7312831	21	1 22.9	21.5
454552 2014 OU_{385}	15.9	X	323.69151	155.93754	277.79080	8.08007	0.0451831	0.17544530	3.1601538	21	11 22.6	20.1
454553 2014 OZ_{385}	17.0	X	186.42430	41.54588	286.70030	4.61689	0.0930994	0.22250321	2.6971920	21	1 22.9	21.1
454554 2014 OA_{386}	16.9	X	137.06934	72.49849	275.83276	3.29578	0.0794318	0.20980881	2.8049184	21	—	—
454555 2014 OB_{386}	17.1	X	171.57843	182.73651	152.28065	5.07837	0.0971655	0.21832740	2.7314749	21	1 16.6	21.1
454556 2014 OS_{388}	17.7	X	306.15257	92.15225	152.55894	6.81428	0.1286600	0.24195225	2.5506426	21	2 9.5	21.1
454557 2014 OY_{388}	16.6	X	38.73850	106.45827	278.04967	8.67103	0.1520529	0.17958995	3.1113440	21	—	—
454558 2014 OZ_{388}	16.6	X	82.60491	63.08266	281.76878	8.91967	0.0882563	0.18551120	3.0447803	21	—	—
454559 2014 PF	17.0	X	331.46467	198.46145	83.99979	8.58284	0.2628036	0.26852212	2.3794834	21	4 18.5	19.4
454560 2014 PH_{1}	17.7	X	253.58222	183.04146	109.98559	3.73740	0.0528940	0.23589522	2.5941194	21	2 20.7	21.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
454561 2014 PK_{2}	17.7	X	184.21641	7.07749	6.56478	2.57491	0.1517642	0.23540912	2.5976892	21	3 18.5	21.7
454562 2014 PN_{2}	17.3	X	103.33577	134.47289	214.17571	1.31124	0.0883279	0.19652583	2.9299235	21	—	—
454563 2014 PS_{3}	17.5	X	320.89904	123.00088	154.40422	1.80628	0.1776054	0.26008485	2.4306701	21	4 5.3	20.3
454564 2014 PW_{5}	16.7	X	216.85516	36.12358	274.72489	11.04632	0.1897465	0.22939476	2.6428979	21	1 29.1	21.2
454565 2014 PC_{6}	17.7	X	294.31682	81.04442	213.42851	1.90114	0.2107563	0.25545552	2.4599476	21	3 18.1	21.0
454566 2014 PM_{6}	16.4	X	93.59593	60.34642	278.28306	8.83816	0.1081710	0.18813440	3.0164114	21	—	—
454567 2014 PS_{7}	17.3	X	206.47927	166.69624	156.80080	2.86804	0.0817044	0.22782112	2.6550542	21	2 5.7	21.1
454568 2014 PV_{7}	17.5	X	139.56857	101.04724	290.64748	2.96377	0.1767302	0.22156254	2.7048208	21	2 28.0	21.5
454569 2014 PR_{8}	16.5	X	94.17114	252.79161	136.79789	11.69169	0.1556141	0.20497792	2.8488177	21	1 3.1	20.2
454570 2014 PE_{9}	17.4	X	39.49514	299.95291	66.82554	0.78836	0.1833497	0.17062591	3.2193836	21	12 29.3	21.8
454571 2014 PK_{9}	17.8	X	47.81674	123.57818	129.06116	3.65889	0.1902382	0.28487450	2.2875310	21	9 1.8	20.2
454572 2014 PZ_{10}	17.7	X	315.46751	123.65991	121.00298	1.25206	0.1065434	0.24179616	2.5517402	21	2 25.7	20.7
454573 2014 PO_{13}	17.7	X	63.85597	344.52922	228.08906	1.79888	0.1515097	0.27354832	2.3502461	21	7 20.1	20.3
454574 2014 PS_{14}	15.9	X	130.52753	101.07481	150.34448	19.74155	0.1657645	0.17236992	3.1976313	21	11 19.3	21.5
454575 2014 PD_{16}	17.6	X	226.86947	348.35798	323.24972	1.63198	0.0928534	0.22862405	2.6488342	21	2 12.3	21.6
454576 2014 PZ_{16}	16.7	X	54.85339	222.83216	130.28486	4.29630	0.0951717	0.17404835	3.1770406	21	12 20.3	21.2
454577 2014 PE_{18}	16.5	X	84.33992	287.51401	95.09038	2.23106	0.1188452	0.19484570	2.9467423	21	—	—
454578 2014 PG_{18}	16.7	X	79.39180	316.04771	42.44403	2.27663	0.0748602	0.18578672	3.0417693	21	—	—
454579 2014 PW_{19}	18.0	X	37.58348	228.88168	1.44430	1.22810	0.1453131	0.26964567	2.3728689	21	6 29.9	20.1
454580 2014 PG_{22}	17.1	X	213.89084	102.38271	160.60522	2.29261	0.0272697	0.20326674	2.8647837	21	—	—
454581 2014 PU_{24}	16.9	X	183.66807	304.74647	149.72937	13.24786	0.1767417	0.25857101	2.4401479	21	6 27.7	21.0
454582 2014 PV_{24}	15.7	X	49.88151	222.31295	145.61530	13.25798	0.1690604	0.17364080	3.1820100	21	—	—
454583 2014 PW_{25}	16.4	X	74.59127	216.24138	128.52455	11.19070	0.0441579	0.17874769	3.1211101	21	12 27.6	20.9
454584 2014 PN_{26}	16.5	X	46.89202	285.12015	129.75021	11.59429	0.0996616	0.19104163	2.9857311	21	—	—
454585 2014 PZ_{28}	16.6	X	86.76477	242.26415	120.56270	2.88896	0.1191126	0.18765634	3.0215322	21	—	—
454586 2014 PM_{30}	17.0	X	92.49956	233.36815	85.99761	2.54720	0.1632053	0.17598228	3.1537221	21	12 28.7	22.0
454587 2014 PA_{33}	17.2	X	225.63377	163.74029	111.34325	6.20960	0.1260658	0.21495973	2.7599294	21	—	—
454588 2014 PZ_{35}	17.2	X	124.40083	294.19842	93.70021	1.92067	0.0822108	0.21382848	2.7696550	21	1 28.2	20.9
454589 2014 PX_{37}	16.7	X	144.36093	177.81304	103.46277	4.95264	0.1508472	0.18447552	3.0561657	21	12 31.1	21.8
454590 2014 PJ_{39}	16.8	X	80.27559	228.93134	173.05634	12.10523	0.0632008	0.19874823	2.9080410	21	—	—
454591 2014 PW_{41}	16.0	X	46.95615	60.54701	347.48782	11.00016	0.1402605	0.18420566	3.0591498	21	—	—
454592 2014 PT_{42}	17.1	X	310.54849	79.76282	161.74165	12.46074	0.1338695	0.23374818	2.6099802	21	2 10.9	20.7
454593 2014 PC_{44}	15.2	X	266.03407	14.01848	82.22822	19.06310	0.0280940	0.14738735	3.5494623	21	10 16.2	20.5
454594 2014 PV_{44}	18.0	X	351.78170	328.62646	296.76971	1.36335	0.1492981	0.26762351	2.3848069	21	5 17.4	19.9
454595 2014 PK_{47}	16.8	X	318.23358	281.46015	317.14383	11.48436	0.1398004	0.24046568	2.5611439	21	2 15.0	19.9
454596 2014 PC_{48}	17.7	X	7.64352	136.80274	106.56522	2.23219	0.1314818	0.26050011	2.4280863	21	5 18.6	19.8
454597 2014 PV_{49}	17.0	X	116.07568	283.18998	118.53882	3.59076	0.0932148	0.21583519	2.7524613	21	2 5.4	20.5
454598 2014 PE_{57}	16.8	X	261.15957	216.67317	91.91485	12.67887	0.1665324	0.23745467	2.5827492	21	3 15.3	21.0
454599 2014 PF_{58}	15.6	X	288.98098	250.42820	117.85932	4.03846	0.2159729	0.12362402	3.9908691	21	6 22.4	21.2
454600 2014 PT_{62}	18.0	X	356.63244	183.28686	76.99864	2.22235	0.1520075	0.26808269	2.3820829	21	5 20.1	19.9
454601 2014 PM_{65}	16.4	X	161.11436	153.37122	156.10568	9.04295	0.2080276	0.20498677	2.8487357	21	—	—
454602 2014 PB_{66}	17.0	X	82.02084	176.05244	159.54689	1.97974	0.2612771	0.17935984	3.1140046	21	—	—
454603 2014 PF_{66}	17.0	X	155.29719	145.47056	212.82261	1.30852	0.0891153	0.21755210	2.7379606	21	1 26.9	20.8
454604 2014 QJ_{15}	15.8	X	25.14629	158.44481	258.78182	11.49946	0.1922621	0.18085500	3.0968182	21	—	—
454605 2014 QN_{19}	17.2	X	79.23713	271.52104	312.95024	5.19291	0.0883722	0.27256784	2.3558790	21	8 18.4	20.0
454606 2014 QD_{22}	16.7	X	37.48761	188.23105	209.02325	8.53755	0.1079847	0.17704227	3.1411215	21	—	—
454607 2014 QX_{26}	17.2	X	305.90447	40.47094	200.91854	5.56589	0.1334396	0.22999760	2.6382777	21	2 5.1	20.8
454608 2014 QL_{27}	16.8	X	131.16130	23.39092	293.55796	3.06330	0.1427043	0.18731479	3.0252040	21	—	—
454609 2014 QN_{30}	16.1	X	50.51230	303.37155	100.50702	12.92075	0.0994633	0.17999032	3.1067284	21	—	—
454610 2014 QD_{35}	17.1	X	101.26297	153.10928	216.30937	5.38847	0.0763071	0.20277220	2.8694397	21	—	—
454611 2014 QP_{40}	16.7	X	139.78157	40.15998	263.27673	2.44839	0.0702558	0.18462312	3.0545365	21	—	—
454612 2014 QW_{44}	17.5	X	146.97484	257.70353	241.92592	5.43869	0.0677053	0.27663331	2.3327403	21	7 14.6	20.8
454613 2014 QO_{45}	17.1	X	173.48081	207.39585	142.72715	12.54368	0.0547336	0.22671990	2.6636447	21	2 1.2	20.9
454614 2014 QU_{45}	17.7	X	185.46822	181.02852	185.20237	4.24624	0.0685923	0.23659931	2.5889703	21	3 6.1	21.5
454615 2014 QX_{46}	17.0	X	63.16730	137.78153	215.56451	4.53704	0.1376486	0.18059707	3.0997661	21	—	—
454616 2014 QN_{59}	17.1	X	172.67830	21.23429	289.67300	5.30708	0.0330764	0.20983632	2.8046732	21	—	—
454617 2014 QR_{66}	17.1	X	327.00653	59.15550	146.42680	7.69729	0.0211426	0.22927906	2.6437870	21	2 4.3	20.7
454618 2014 QY_{72}	16.1	X	69.32905	184.00482	162.11318	19.50780	0.2396345	0.17665355	3.1457278	21	—	—
454619 2014 QT_{90}	16.8	X	92.66506	174.36667	175.84077	10.88747	0.0958778	0.18802224	3.0176109	21	—	—
454620 2014 QF_{105}	17.5	X	210.62736	93.46086	222.81640	3.52401	0.0628031	0.22319558	2.6916111	21	1 31.9	21.5
454621 2014 QE_{117}	16.1	X	299.27261	312.74087	169.79047	17.37790	0.0872142	0.17347254	3.1840673	21	12 17.6	20.6
454622 2014 QM_{119}	16.5	X	307.02456	126.54056	336.52297	11.01266	0.0265551	0.17061698	3.2194960	21	12 6.0	21.1
454623 2014 QV_{126}	16.6	X	131.43417	31.11483	285.15630	3.19810	0.1224073	0.18739902	3.0242975	21	—	—
454624 2014 QG_{130}	16.9	X	130.82187	158.68495	162.15021	1.22851	0.0870172	0.18844737	3.0130707	21	—	—
454625 2014 QD_{132}	17.1	X	93.98555	263.75062	140.89708	2.76366	0.0658519	0.20378882	2.8598888	21	1 9.5	20.8
454626 2014 QT_{132}	16.7	X	108.06852	224.88771	94.91113	2.66134	0.1627144	0.18051044	3.1007577	21	—	—
454627 2014 QO_{133}	15.8	X	129.11618	280.12766	358.84788	7.70404	0.0866479	0.17318884	3.1875435	21	12 10.5	20.8
454628 2014 QX_{135}	16.6	X	125.70916	201.63684	99.76452	2.53203	0.1337596	0.18031942	3.1029472	21	—	—
454629 2014 QA_{143}	16.4	X	133.85054	117.70289	153.00642	16.38539	0.1109097	0.17199666	3.2022559	21	12 9.6	21.7
454630 2014 QD_{168}	15.4	X	18.89307	310.66192	136.12072	13.90944	0.1260385	0.17235840	3.1977739	21	—	—
454631 2014 QR_{173}	16.4	X	316.43529	131.59119	299.67498	3.83604	0.1489999	0.15570523	3.4218994	21	10 29.2	20.6
454632 2014 QV_{175}	16.6	X	293.58587	90.62140	143.55528	5.62988	0.0667148	0.21953998	2.7214079	21	1 24.7	20.5
454633 2014 QE_{179}	17.2	X	42.81645	240.14641	24.09958	8.63927	0.2014228	0.28008064	2.3135594	21	9 15.2	19.6
454634 2014 QT_{181}	17.7	X	93.39907	287.44199	242.63377	4.11705	0.0605284	0.26158237	2.4213844	21	6 16.9	20.6
454635 2014 QK_{188}	16.4	X	339.68270	272.79718	166.74995	12.05720	0.0475070	0.17717869	3.1395089	21	12 22.6	20.8
454636 2014 QV_{194}	17.3	X	175.67009	184.24204	238.15365	5.20595	0.0920153	0.24526084	2.5276518	21	5 7.0	20.8
454637 2014 QM_{201}	17.3	X	74.81017	160.10309	283.58556	3.20404	0.0348737	0.21499547	2.7596236	21	1 26.6	20.7
454638 2014 QL_{207}	17.2	X	171.80525	125.76766	191.38604	2.06867	0.0375678	0.20495943	2.8489891	21	—	—
454639 2014 QZ_{213}	16.9	X	146.67853	279.03602	202.33253	4.13509	0.1520449	0.25470081	2.4648046	21	6 25.9	20.6
454640 2014 QU_{215}	17.3	X	206.32182	50.82765	243.78352	3.56541	0.1519976	0.21333354	2.7739372	21	1 5.6	21.9

Planet		H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
		m		°	°	°	°		°				
454641	2014 QB_{219}	16.4	X	308.73141	281.96013	191.28048	9.32077	0.0580433	0.17466945	3.1695048	21	12 20.7	20.8
454642	2014 QK_{220}	17.7	X	59.81566	143.73672	176.21611	7.97209	0.1193922	0.30736630	2.1745291	21	12 14.4	20.6
454643	2014 QP_{237}	15.8	X	325.29880	100.87405	0.12622	10.90247	0.0950899	0.17157898	3.2074508	21	12 27.9	20.0
454644	2014 QK_{244}	15.9	X	272.93317	49.92690	129.16037	11.90924	0.0539150	0.18494915	3.0509458	21	—	—
454645	2014 QL_{247}	15.7	X	60.23853	271.88681	88.69744	9.54457	0.0873989	0.17169955	3.2059490	21	—	—
454646	2014 QY_{253}	15.8	X	1.93505	336.28246	98.52224	10.33721	0.0320542	0.17549645	3.1595398	21	—	—
454647	2014 QU_{257}	16.2	X	176.38788	185.55358	50.99867	14.76227	0.1305894	0.17278775	3.1924743	21	12 5.2	21.3
454648	2014 QE_{266}	17.3	X	189.38636	189.30529	167.98014	11.55773	0.0283716	0.23288521	2.6164239	21	2 25.8	20.8
454649	2014 QB_{267}	16.5	X	102.17356	42.89456	286.41310	8.48115	0.0840982	0.17936708	3.1139207	21	—	—
454650	2014 QK_{273}	17.3	X	197.73710	247.34660	61.24558	11.66059	0.1390865	0.22202823	2.7010374	21	1 14.3	21.7
454651	2014 QZ_{276}	17.1	X	245.12714	85.38948	318.58739	5.60820	0.1235675	0.26888759	2.3773267	21	6 27.4	20.3
454652	2014 QX_{278}	17.1	X	160.59801	272.16888	109.14044	6.73533	0.0910969	0.22804849	2.6532892	21	3 3.6	21.0
454653	2014 QE_{298}	15.9	X	45.47355	65.08907	317.96253	9.49929	0.1281517	0.17884239	3.1200082	21	—	—
454654	2014 QB_{301}	16.1	X	228.90347	228.87230	37.53655	6.19004	0.0326397	0.20201959	2.8765619	21	—	—
454655	2014 QW_{303}	16.7	X	304.48762	350.15922	150.50017	11.27882	0.0795080	0.18406126	3.0607496	21	—	—
454656	2014 QV_{305}	16.9	X	18.12270	150.96032	291.43484	2.20224	0.1896447	0.18055625	3.1002332	21	—	—
454657	2014 QG_{314}	16.8	X	119.69297	27.54669	297.03060	1.97479	0.1376944	0.19268973	2.9686820	21	—	—
454658	2014 QH_{317}	17.3	X	216.83797	138.92708	136.38659	5.14511	0.0737989	0.21316957	2.7753595	21	—	—
454659	2014 QW_{319}	16.7	X	91.03813	306.03309	61.60704	3.80387	0.0339319	0.19466839	2.9485314	21	—	—
454660	2014 QX_{323}	17.0	X	197.53931	209.02174	136.60921	5.78122	0.0861552	0.21823861	2.7322158	21	2 26.0	21.0
454661	2014 QN_{336}	15.7	X	351.44741	297.12096	159.47181	21.01536	0.0642115	0.17871031	3.1215453	21	—	—
454662	2014 QM_{337}	16.8	X	89.60856	146.88679	180.81930	4.90403	0.2200719	0.18055080	3.1002956	21	—	—
454663	2014 QT_{337}	16.3	X	305.79504	249.60897	298.19180	11.75241	0.0422945	0.21356534	2.7719296	21	—	—
454664	2014 QB_{346}	16.6	X	274.71502	195.17128	83.00397	15.30161	0.1177907	0.23708857	2.5854073	21	2 24.3	20.6
454665	2014 QP_{349}	17.1	X	243.64458	140.20129	128.08787	1.24683	0.0309696	0.20861254	2.8156312	21	1 14.8	21.2
454666	2014 QB_{370}	16.5	X	31.41005	306.00371	135.41169	7.21728	0.1983578	0.18401199	3.0612959	21	—	—
454667	2014 QM_{370}	17.1	X	278.57188	196.97724	55.90548	4.28126	0.1276018	0.22183446	2.7026100	21	1 24.6	21.2
454668	2014 QY_{370}	17.0	X	130.47547	33.74082	31.74172	5.78135	0.0539221	0.22334311	2.6904257	21	3 20.1	20.6
454669	2014 QA_{371}	17.4	X	94.42910	60.94453	74.23419	4.12525	0.0101644	0.23892802	2.5721206	21	4 25.1	20.8
454670	2014 QB_{376}	15.9	X	105.95170	151.11146	191.84840	8.21168	0.0270608	0.18166778	3.0875744	21	—	—
454671	2014 QS_{377}	17.0	X	50.29059	250.11460	262.23293	2.92565	0.0838713	0.22451782	2.6810331	21	3 23.8	20.2
454672	2014 QZ_{377}	16.9	X	254.19257	309.01051	324.07059	3.55419	0.0196107	0.21333085	2.7739605	21	2 2.4	20.8
454673	2014 QD_{378}	17.1	X	166.07656	265.81783	207.08765	3.24928	0.1003271	0.25310369	2.4751626	21	7 2.7	20.8
454674	2014 QF_{386}	16.5	X	105.34327	69.81468	289.49990	8.26595	0.1011642	0.18296409	3.0729735	21	—	—
454675	2014 QZ_{387}	17.3	X	131.93673	156.22600	338.04019	8.67215	0.1426886	0.25746184	2.4471512	21	6 27.9	21.0
454676	2014 QD_{402}	16.1	X	109.49640	225.63633	115.68462	8.16782	0.0449449	0.18841270	3.0134403	21	—	—
454677	2014 QX_{402}	16.8	X	85.33574	253.66557	98.62033	6.20912	0.1299529	0.18195676	3.0843045	21	—	—
454678	2014 QL_{410}	16.6	X	39.68676	219.64034	148.29637	8.55482	0.1616810	0.16962737	3.2320056	21	12 27.6	21.1
454679	2014 QQ_{414}	17.2	X	71.36031	74.35378	15.20141	3.23898	0.0618595	0.21531071	2.7569293	21	2 2.6	20.7
454680	2014 QG_{418}	16.3	X	150.71954	101.12033	198.10000	12.72404	0.0948695	0.18295680	3.0730551	21	—	—
454681	2014 QB_{425}	17.0	X	61.20066	80.69090	352.82675	5.30080	0.0467756	0.20319459	2.8654618	21	—	—
454682	2014 QR_{426}	16.8	X	11.33652	351.09379	286.74151	5.85742	0.0948162	0.26487798	2.4012579	21	7 18.3	19.1
454683	2014 QA_{437}	16.4	X	213.93096	6.49905	288.30345	8.97781	0.2097529	0.21758166	2.7377126	21	1 12.4	21.1
454684	2014 QZ_{439}	16.2	X	93.59741	91.46696	249.71572	9.03981	0.2207620	0.18208746	3.0828284	21	—	—
454685	2014 RL_{3}	17.2	X	142.85407	6.24524	9.50773	6.27136	0.0605416	0.21469770	2.7621745	21	2 2.9	21.1
454686	2014 RX_{4}	16.3	X	131.40718	100.27889	196.02072	10.76828	0.1550066	0.18288807	3.0738249	21	—	—
454687	2014 RR_{16}	15.3	X	182.69787	281.92517	329.27180	15.85638	0.0768346	0.18124616	3.0923609	21	—	—
454688	2014 RF_{20}	16.4	X	336.56046	126.76341	340.78939	10.29013	0.0488220	0.18274886	3.0753857	21	—	—
454689	2014 RJ_{21}	16.9	X	297.54447	256.68447	5.08115	14.65431	0.0977009	0.22885797	2.6470289	21	3 3.9	20.6
454690	2014 RW_{21}	16.0	X	315.09456	217.09969	139.72746	3.90498	0.3095784	0.12669911	3.9260305	21	6 30.5	20.7
454691	2014 RE_{22}	16.9	X	210.58485	261.93740	112.91048	7.60353	0.1528242	0.23411461	2.6072562	21	4 16.9	21.2
454692	2014 RN_{24}	17.0	X	148.18049	23.94234	341.90050	5.75255	0.0524973	0.21138920	2.7909208	21	1 26.7	20.9
454693	2014 RP_{34}	16.5	X	85.87244	227.27713	117.17272	7.13560	0.0834627	0.17767320	3.1336809	21	—	—
454694	2014 RC_{35}	15.9	X	25.33253	271.06490	135.69572	10.27955	0.0506670	0.17573659	3.1566608	21	—	—
454695	2014 RQ_{35}	16.1	X	9.67248	302.44018	118.83247	9.83684	0.0813122	0.17359686	3.1825469	21	—	—
454696	2014 SF_{12}	16.3	X	55.21181	161.96220	228.08684	0.65318	0.0872327	0.18019459	3.1043800	21	—	—
454697	2014 SX_{48}	16.0	X	118.72630	270.06618	30.12328	8.35251	0.0682365	0.17677018	3.1443440	21	12 25.1	20.8
454698	2014 SW_{52}	17.0	X	178.66384	282.79585	94.85505	3.09282	0.1058336	0.22621888	2.6675761	21	3 18.5	21.0
454699	2014 SZ_{90}	16.1	X	176.90405	72.93859	202.49154	7.94144	0.0269599	0.18261065	3.0769373	21	—	—
454700	2014 SP_{91}	16.7	X	149.01959	64.99642	225.54169	3.03344	0.1900024	0.18400424	3.0613818	21	—	—
454701	2014 SV_{92}	16.8	X	2.31731	319.68694	209.91274	7.20955	0.1599437	0.21119109	2.7926660	21	1 24.7	20.1
454702	2014 SZ_{100}	17.1	X	133.06868	38.54278	323.18482	1.19015	0.0760802	0.19929037	2.9027647	21	1 8.4	21.1
454703	2014 SP_{102}	17.3	X	32.67821	304.30488	304.15075	0.58515	0.0276716	0.25923994	2.4359486	21	7 5.0	19.9
454704	2014 SZ_{103}	16.7	X	153.10552	222.94851	66.24741	2.01977	0.1098902	0.18245770	3.0786566	21	—	—
454705	2014 SJ_{107}	16.3	X	354.24113	116.44298	15.09333	11.06763	0.1433667	0.18845609	3.0129778	21	—	—
454706	2014 SO_{111}	16.8	X	37.61551	9.94648	51.14148	0.67074	0.1659836	0.17738968	3.1370190	21	—	—
454707	2014 SU_{114}	17.1	X	88.71527	189.16262	237.79316	1.09154	0.0538696	0.20270273	2.8700953	21	1 28.9	20.8
454708	2014 SS_{117}	16.7	X	214.53668	246.60850	8.11007	3.24892	0.1066968	0.18968448	2.9999558	21	—	—
454709	2014 SS_{124}	16.3	X	284.90947	53.28204	105.20835	2.57664	0.1352335	0.17244881	3.1966560	21	—	—
454710	2014 SX_{125}	16.8	X	167.58394	230.94756	107.11830	3.26739	0.0712438	0.20275620	2.8695907	21	1 17.3	20.8
454711	2014 SP_{130}	16.5	X	113.56812	277.76787	37.47133	3.40066	0.0507925	0.17302552	3.1895489	21	—	—
454712	2014 SZ_{158}	16.2	X	86.95524	292.17052	78.72288	3.02056	0.0928310	0.17807036	3.1290197	21	—	—
454713	2014 SK_{162}	16.6	X	163.84486	133.48711	153.57262	0.52852	0.1387277	0.18386548	3.0629219	21	—	—
454714	2014 SR_{172}	16.9	X	220.38211	193.03750	74.39112	2.04505	0.1062868	0.20207314	2.8760537	21	—	—
454715	2014 SW_{178}	15.6	X	330.43306	94.21192	16.21020	10.15350	0.0397981	0.17627353	3.1502473	21	—	—
454716	2014 SN_{189}	16.5	X	50.57492	22.68758	30.51184	10.11244	0.0591915	0.18386930	3.0628795	21	—	—
454717	2014 SM_{212}	15.8	X	68.33970	199.07065	196.16826	18.69966	0.1619458	0.17011312	3.2258501	21	—	—
454718	2014 SY_{220}	16.5	X	273.24258	352.44433	289.45472	10.73732	0.1617082	0.23527925	2.5986451	21	2 13.4	20.6
454719	2014 SS_{222}	15.8	X	41.23362	204.85332	210.30237	16.93840	0.2042540	0.17521700	3.1628982	21	—	—
454720	2014 SV_{222}	16.7	X	237.13144	250.73292	79.87096	5.98273	0.1161221	0.22917126	2.6446160	21	3 20.2	20.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
454721 2014 SJ_{223}	16.7	X	62.03389	290.62347	98.44709	6.63942	0.1415191	0.18042088	3.1017837	21	—	—
454722 2014 SN_{223}	16.4	X	194.70597	236.29148	150.68878	15.35679	0.1187710	0.23375242	2.6099487	21	4 18.1	20.7
454723 2014 SF_{264}	17.6	X	128.92465	85.29311	305.69506	0.99030	0.0763125	0.20300164	2.8672773	21	2 7.2	21.5
454724 2014 ST_{265}	15.5	X	252.37705	300.98311	263.79897	9.83700	0.0055597	0.18294096	3.0732325	21	—	—
454725 2014 SB_{267}	15.5	X	125.16073	27.03199	299.99035	9.22055	0.0860106	0.17922697	3.1155435	21	—	—
454726 2014 SB_{278}	15.8	X	29.69781	80.43644	21.15030	10.95566	0.0402908	0.18866708	3.0107311	21	—	—
454727 2014 SQ_{289}	16.8	X	257.54172	15.28739	255.55491	4.11125	0.0582783	0.21829461	2.7317485	21	1 28.7	20.7
454728 2014 TR_{12}	15.9	X	39.56508	54.10778	8.58377	10.59835	0.0422845	0.17670682	3.1450955	21	—	—
454729 2014 TR_{37}	16.0	X	88.94581	151.55102	188.55355	15.52755	0.0830425	0.17473678	3.1686905	21	—	—
454730 2014 TY_{41}	16.0	X	239.98101	253.85782	20.12446	11.92917	0.0571852	0.19509235	2.9442581	21	1 22.2	20.6
454731 2014 TZ_{63}	16.3	X	40.69583	60.50457	23.64102	9.18353	0.1143812	0.18782125	3.0197633	21	—	—
454732 2014 TW_{81}	16.2	X	129.03934	13.11240	304.78122	3.86812	0.3831911	0.19773433	2.9179734	21	—	—
454733 2014 TO_{85}	15.3	X	87.14644	198.06133	170.46786	24.87643	0.1873573	0.17878782	3.1206431	21	—	—
454734 2014 UL_{8}	16.1	X	253.45869	260.43626	30.16303	7.24674	0.0634947	0.21292436	2.7774899	21	2 22.2	20.2
454735 2014 UM_{13}	13.7	X	217.58775	120.33008	267.34895	6.60762	0.0091651	0.08214016	5.2412197	21	5 21.7	20.7
454736 2014 UW_{17}	16.5	X	209.93898	126.67635	220.15038	3.67959	0.0841287	0.21316363	2.7754110	21	3 10.7	20.7
454737 2014 UL_{18}	16.2	X	42.69705	227.20658	219.25301	9.36677	0.1931338	0.17677641	3.1442701	21	—	—
454738 2014 US_{89}	15.7	X	72.86904	353.31845	65.53729	10.97328	0.0828187	0.18093766	3.0958749	21	1 6.7	19.8
454739 2014 UC_{92}	16.4	X	179.87035	252.60999	65.56137	13.83979	0.1322670	0.19067955	2.9895097	21	1 13.6	21.3
454740 2014 UX_{92}	15.9	X	82.22747	60.12300	18.48638	11.37453	0.1520442	0.19093659	2.9868261	21	2 24.6	19.8
454741 2014 UB_{106}	15.9	X	308.49310	308.43928	240.58750	11.57646	0.0234644	0.18241874	3.0790950	21	—	—
454742 2014 UW_{124}	16.2	X	81.72442	337.20171	239.55082	13.89370	0.0578066	0.25545133	2.4599745	21	7 30.9	19.7
454743 2014 UH_{126}	15.4	X	350.71927	300.36193	253.30134	13.73670	0.0922114	0.20392672	2.8585994	21	2 11.7	19.3
454744 2014 UL_{133}	13.8	X	177.56698	324.55746	100.83232	6.16457	0.0441709	0.08183017	5.2544477	21	5 22.0	20.9
454745 2014 UT_{140}	15.9	X	269.64650	193.13512	26.64874	13.67434	0.0598190	0.18429693	3.0581397	21	—	—
454746 2014 UA_{187}	15.8	X	220.23966	221.50620	29.36149	12.23091	0.0654835	0.17817448	3.1278005	21	—	—
454747 2014 UX_{194}	15.4	X	271.28534	149.61045	57.03548	10.08570	0.0367273	0.17914164	3.1165326	21	—	—
454748 2014 UA_{204}	17.0	X	34.81656	36.58083	241.99658	14.68268	0.0967263	0.26664890	2.3906144	21	8 23.1	20.2
454749 2014 UG_{204}	16.2	X	138.12307	167.48677	269.47842	11.64183	0.0990973	0.21301587	2.7766944	21	4 12.8	20.5
454750 2014 UP_{216}	15.3	X	76.63538	281.59678	112.95744	11.02845	0.0859681	0.17800691	3.1297632	21	—	—
454751 2014 VU_{5}	15.7	X	114.29524	296.60279	61.12321	12.59539	0.0554073	0.17938624	3.1136990	21	—	—
454752 2014 VU_{9}	13.2	X	277.93296	264.14538	76.40647	25.39110	0.0702753	0.08070846	5.3030210	21	5 30.5	20.2
454753 2014 VQ_{12}	13.8	X	241.60213	145.73148	222.12759	7.31183	0.0309097	0.08252690	5.2248324	21	5 24.7	20.8
454754 2014 VP_{15}	15.1	X	321.16632	309.21670	235.84609	19.35692	0.1461868	0.18047408	3.1011742	21	—	—
454755 2014 VZ_{16}	16.6	X	131.15322	189.93313	135.33808	2.29709	0.1732599	0.18048188	3.1010848	21	—	—
454756 2014 WV_{6}	14.0	X	271.10360	219.39261	115.67270	1.58997	0.1059204	0.08396105	5.1651642	21	5 10.8	20.9
454757 2014 WD_{23}	16.2	X	19.71715	108.39194	20.31271	7.40310	0.1456117	0.18199794	3.0838392	21	1 14.9	19.9
454758 2014 WV_{23}	17.2	X	85.38708	237.85076	296.04712	2.54320	0.0303583	0.23344835	2.6122145	21	6 6.8	20.5
454759 2014 WG_{32}	15.7	X	161.57044	14.75458	277.33222	9.41252	0.0482026	0.17207324	3.2013058	21	—	—
454760 2014 WF_{48}	16.0	X	283.60053	12.01494	214.65537	8.55852	0.2070665	0.18230147	3.0804153	21	—	—
454761 2014 WX_{67}	16.9	X	223.12184	160.88357	208.97098	5.36020	0.0477196	0.22033667	2.7148439	21	4 25.5	20.8
454762 2014 WU_{115}	16.2	X	11.84039	284.11911	200.59256	10.54758	0.1643975	0.18385230	3.0630683	21	—	—
454763 2014 WJ_{116}	16.9	X	43.86993	337.90349	203.87714	9.29748	0.0282866	0.22825619	2.6516793	21	4 20.3	20.2
454764 2014 WW_{172}	15.5	X	88.19813	325.03251	64.32744	12.06946	0.0714587	0.19346008	2.9607959	21	—	—
454765 2014 WJ_{213}	15.8	X	194.48353	234.67045	54.95226	12.18029	0.0601781	0.17785464	3.1315492	21	—	—
454766 2014 WF_{228}	17.4	X	289.06249	57.73579	282.60525	1.89738	0.1191015	0.24213479	2.5493605	21	5 27.6	20.5
454767 2014 WV_{235}	15.1	X	175.14092	261.76420	26.55074	18.84452	0.1491281	0.17066759	3.2188594	21	—	—
454768 2014 WN_{237}	15.2	X	234.98106	333.79936	255.31796	16.76219	0.0986104	0.18087473	3.0965929	21	—	—
454769 2014 WC_{243}	16.0	X	233.67539	11.68417	273.92353	11.36101	0.1118278	0.21826156	2.7320242	21	1 18.1	20.2
454770 2014 WE_{253}	16.4	X	275.71120	226.30733	71.25201	15.82682	0.1211387	0.22485491	2.6783529	21	3 26.0	20.6
454771 2014 WR_{277}	16.6	X	129.45392	237.26610	182.72271	9.36953	0.0602811	0.19957372	2.9000166	21	3 13.3	20.7
454772 2014 WK_{288}	15.8	X	242.96703	143.69874	94.85360	18.11647	0.0680699	0.17502401	3.1652229	21	—	—
454773 2014 WO_{318}	15.7	X	149.26248	212.46293	106.52844	10.65367	0.0521750	0.18076620	3.0978323	21	—	—
454774 2014 WR_{320}	16.4	X	82.11520	195.96837	263.34588	2.13166	0.0422625	0.19611677	2.9339962	21	2 28.7	20.3
454775 2014 WH_{400}	15.7	X	85.38907	110.01591	288.45041	14.16966	0.0615210	0.18666074	3.0322667	21	—	—
454776 2014 WL_{400}	15.6	X	343.45682	193.88593	295.98544	17.08064	0.0473651	0.17840705	3.1250817	21	—	—
454777 2014 WA_{423}	15.1	X	156.64053	223.68189	109.91248	10.90209	0.0289593	0.17403051	3.1772578	21	1 1.3	19.7
454778 2014 WE_{464}	16.0	X	82.11263	194.75972	233.80543	9.36389	0.0981342	0.18343427	3.0677201	21	1 28.9	20.2
454779 2014 XZ_{3}	15.7	X	158.49071	256.45052	109.25544	25.46413	0.1754025	0.21034978	2.8001073	21	2 21.7	20.4
454780 2014 XE_{6}	15.5	X	24.40671	150.01238	286.60189	26.16547	0.1094650	0.17623705	3.1506820	21	—	—
454781 2014 XK_{11}	13.1	X	332.03149	32.76897	262.43413	11.98887	0.1132150	0.08417125	5.1565615	21	6 8.5	19.4
454782 2014 XY_{28}	15.4	X	258.33978	156.12865	87.13715	13.23814	0.1007910	0.18219935	3.0815662	21	—	—
454783 2014 YR_{16}	16.1	X	137.58742	67.30042	304.18471	9.04441	0.0863775	0.18309823	3.0714724	21	1 29.1	20.5
454784 2014 YD_{21}	16.5	X	57.45544	137.55542	298.19843	10.65391	0.1210758	0.17758581	3.1347088	21	1 9.7	20.3
454785 2014 YW_{25}	16.1	X	322.32217	289.27091	273.02381	6.59614	0.0396200	0.18483468	3.0522053	21	1 30.2	20.3
454786 2015 AJ_{1}	16.8	X	208.47158	232.87406	153.67145	6.75866	0.0812696	0.22580165	2.6708611	21	4 30.5	20.8
454787 2015 NW_{6}	17.6	X	153.42547	226.06826	137.44978	6.52146	0.1389122	0.25973899	2.4328273	21	1 29.8	21.0
454788 2015 OT_{24}	17.2	X	164.96695	51.09795	300.55094	1.77131	0.2080614	0.25409252	2.4687368	21	2 3.2	21.1
454789 2015 OQ_{27}	17.3	X	258.75159	223.93081	129.11575	8.01077	0.2554923	0.29357432	2.2421122	21	4 22.8	20.9
454790 2015 OF_{36}	17.0	X	355.44019	257.42981	325.51391	7.45268	0.0508451	0.28466154	2.2886718	21	3 24.0	19.6
454791 2015 OU_{76}	17.3	X	164.78185	60.36695	331.27462	5.81299	0.1222816	0.25911475	2.4367331	21	3 15.8	21.0
454792 2015 PT_{10}	16.8	X	33.84919	120.85391	241.59255	9.10661	0.1731437	0.19317506	2.9637076	21	12 20.0	20.8
454793 2015 PL_{12}	16.7	X	50.57155	120.75875	221.56139	5.08416	0.1154122	0.19366233	2.9587342	21	12 8.9	20.8
454794 2015 PZ_{218}	17.2	X	112.55900	89.15411	233.09372	8.30025	0.1693157	0.21564090	2.7541143	21	—	—
454795 2015 PO_{275}	17.9	X	282.31517	284.43053	32.79059	6.69049	0.2119385	0.29545710	2.2325769	21	4 1.3	21.0
454796 2015 QO_{7}	17.4	X	237.04712	108.59667	202.48091	4.33280	0.1566220	0.26691401	2.3890311	21	2 12.8	21.3
454797 2015 QM_{9}	16.7	X	50.46304	187.52704	189.30127	1.75459	0.0768501	0.20363351	2.8613427	21	—	—
454798 2015 QU_{10}	17.1	X	110.39394	223.23857	136.81444	8.82369	0.2361590	0.21609547	2.7502506	21	—	—
454799 2015 QV_{10}	16.2	X	323.08924	315.92049	248.72380	13.60310	0.0256870	0.22956047	2.6416259	21	1 24.2	20.0
454800 2015 RY_{1}	17.2	X	162.88765	244.10445	190.86839	20.94469	0.2436743	0.28093776	2.3088513	21	5 18.1	21.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
454801 2015 RK_{28}	16.3	X	289.23964	77.16671	102.44221	15.45067	0.0267408	0.21268271	2.7795933	21	—	—
454802 2015 RA_{34}	16.2	X	332.79262	59.77090	90.38016	18.38034	0.0949092	0.21454660	2.7634713	21	—	—
454803 2015 RE_{38}	16.6	X	56.06844	221.25190	147.24601	2.73341	0.0805086	0.20280227	2.8691561	21	—	—
454804 2015 RH_{53}	17.9	X	123.02959	215.69651	232.15681	1.77703	0.1450089	0.26144839	2.4222115	21	4 14.9	21.2
454805 2015 RY_{53}	18.4	X	156.16510	20.13716	344.84250	6.14913	0.2132822	0.24501605	2.5293350	21	2 14.2	22.4
454806 2015 RH_{60}	16.5	X	44.23658	331.26480	353.70770	10.90126	0.1844439	0.17920535	3.1157940	21	11 13.0	20.8
454807 2015 RS_{61}	16.3	X	329.95620	222.11477	176.47325	5.21546	0.1426890	0.16954200	3.2330904	21	10 15.9	20.0
454808 2015 RJ_{73}	17.9	X	197.13779	283.04857	137.74389	2.00339	0.0208375	0.28869368	2.2673116	21	5 28.6	20.5
454809 2015 RU_{73}	18.0	X	121.57107	312.37321	80.44555	1.02857	0.0899637	0.23814297	2.5777702	21	1 27.1	21.2
454810 2015 RY_{89}	16.1	X	338.75004	214.05325	197.00887	14.53880	0.2567140	0.17143146	3.2092905	21	11 18.5	19.2
454811 2015 RP_{93}	17.0	X	171.67616	298.55091	2.37826	6.22370	0.1350005	0.23429029	2.6059526	21	—	—
454812 2015 RV_{94}	16.4	X	28.11140	163.51601	218.82779	6.84883	0.0728823	0.19735371	2.9217240	21	12 23.7	20.3
454813 2015 RB_{96}	17.6	X	207.37682	136.27628	200.04716	6.25877	0.1735561	0.26304640	2.4123916	21	2 17.1	21.5
454814 2015 RH_{99}	15.5	X	350.57478	38.82819	338.62138	8.85189	0.0889644	0.17453808	3.1710951	21	10 18.8	19.6
454815 2015 RG_{102}	17.4	X	208.88857	307.98272	42.44413	2.92903	0.2160983	0.26349190	2.4096717	21	3 11.0	21.4
454816 2015 RQ_{102}	17.5	X	204.32247	287.43456	60.81712	2.27069	0.2015894	0.26021406	2.4298653	21	3 4.8	21.6
454817 2015 RC_{106}	17.9	X	148.36956	251.10888	161.62009	3.55331	0.2175401	0.25970607	2.4330329	21	4 5.7	21.8
454818 2015 RO_{106}	17.3	X	158.89631	358.06443	334.47936	3.85601	0.2359503	0.23818334	2.5774790	21	1 11.3	21.4
454819 2015 RM_{107}	18.0	X	194.17447	239.50535	123.26530	3.37537	0.2389040	0.26198655	2.4188933	21	3 14.8	22.2
454820 2015 RH_{108}	16.8	X	39.22819	162.01298	182.78791	6.16160	0.2427844	0.18082152	3.0972004	21	12 13.6	21.0
454821 2015 RH_{115}	16.2	X	15.43019	352.79569	27.74852	8.98430	0.0758805	0.18649458	3.0340675	21	12 1.2	20.3
454822 2015 RT_{116}	16.1	X	20.90178	273.72080	92.44356	12.94779	0.2266731	0.17896552	3.1185771	21	12 11.8	20.0
454823 2015 RA_{117}	15.7	X	6.73600	254.77107	125.72576	12.89844	0.0778898	0.17646055	3.1480210	21	11 22.7	20.0
454824 2015 RB_{117}	15.6	X	31.83683	253.24945	94.98096	10.16601	0.0829735	0.17445814	3.1720637	21	11 16.5	19.9
454825 2015 RS_{118}	17.2	X	300.33634	255.27614	353.29632	23.12920	0.2614475	0.28019813	2.3129126	21	1 25.2	21.2
454826 2015 RB_{134}	16.8	X	0.84804	255.72762	161.81541	2.26855	0.0128994	0.20123619	2.8840226	21	12 26.1	20.7
454827 2015 RJ_{145}	16.7	X	104.63563	201.66865	136.86225	5.74992	0.1613671	0.21365968	2.7711136	21	—	—
454828 2015 RH_{185}	17.4	X	231.42368	259.44397	49.92312	1.94082	0.1936900	0.25761703	2.4461683	21	2 8.2	21.3
454829 2015 RF_{193}	17.8	X	195.91040	215.82773	137.66967	2.40485	0.1971525	0.25884661	2.4384156	21	3 3.5	21.8
454830 2015 RS_{201}	16.9	X	206.76190	230.23361	24.53273	4.66411	0.0204732	0.21260503	2.7802703	21	—	—
454831 2015 RU_{205}	16.7	X	69.30710	355.93021	56.96402	6.53805	0.0282178	0.22019750	2.7159877	21	—	—
454832 2015 RZ_{207}	16.1	X	83.28460	262.77847	32.27724	9.34337	0.1785154	0.17948329	3.1125765	21	11 22.5	20.9
454833 2015 RA_{209}	16.8	X	178.93636	166.80946	97.47897	3.25294	0.0210734	0.20319946	2.8654160	21	—	—
454834 2015 RM_{209}	16.9	X	15.49743	271.83012	146.22687	3.03102	0.0582236	0.19878604	2.9076723	21	—	—
454835 2015 RW_{213}	17.0	X	209.41804	163.20918	127.75143	4.29347	0.1445749	0.24548751	2.5260956	21	—	—
454836 2015 RY_{213}	15.7	X	10.74567	210.80516	155.89617	10.40099	0.0630556	0.18141529	3.0904386	21	11 10.0	19.9
454837 2015 RB_{217}	16.5	X	301.58223	97.36865	15.96000	16.28310	0.2610996	0.17830665	3.1262546	21	11 14.5	20.1
454838 2015 RS_{222}	16.3	X	59.49982	289.83128	21.40870	10.56886	0.0803984	0.17258084	3.1950256	21	11 1.6	20.9
454839 2015 RB_{226}	17.3	X	113.34961	254.07529	169.80233	9.78099	0.0628181	0.24459908	2.5322087	21	2 18.9	20.6
454840 2015 RS_{226}	16.3	X	1.95836	301.14500	112.75209	6.92647	0.0949243	0.18643450	3.0347193	21	12 27.3	20.1
454841 2015 RC_{227}	17.4	X	179.26632	245.61425	71.76612	4.47500	0.2411422	0.23806568	2.5783281	21	1 10.6	21.7
454842 2015 RY_{227}	17.0	X	108.48703	231.13097	113.37410	1.69701	0.0800193	0.20868800	2.8149524	21	—	—
454843 2015 RH_{228}	17.7	X	173.26049	243.62379	170.43466	4.86939	0.2188307	0.26485350	2.4014059	21	4 29.4	21.6
454844 2015 RJ_{233}	16.7	X	349.52940	37.95022	30.54881	9.33570	0.1016684	0.18824081	3.0152746	21	12 28.3	20.6
454845 2015 RW_{234}	17.8	X	288.51537	243.85452	97.32686	7.41156	0.2184097	0.29442096	2.2378118	21	5 11.7	20.7
454846 2015 RX_{237}	15.8	X	311.12504	286.51590	183.63177	18.12537	0.0593988	0.17871952	3.1214380	21	12 21.0	20.3
454847 2015 RD_{238}	16.4	X	257.10335	22.76364	137.96391	12.52841	0.0763743	0.17695626	3.1421393	21	12 11.0	21.0
454848 2015 RG_{239}	16.0	X	303.26567	302.12805	182.91074	26.41625	0.2263439	0.17285893	3.1915979	21	12 12.3	20.1
454849 2015 RV_{239}	16.2	X	123.04190	310.47376	86.66744	15.46592	0.1304145	0.23031261	2.6358715	21	2 15.2	20.1
454850 2015 RX_{239}	16.8	X	133.93037	222.25462	176.36483	21.84901	0.0419546	0.23365176	2.6106982	21	2 10.1	20.6
454851 2015 RF_{240}	16.0	X	91.50312	208.21723	159.35099	13.99322	0.0898078	0.20085998	2.8876226	21	—	—
454852 2015 RX_{243}	17.5	X	151.33695	29.34013	42.27403	9.32315	0.2032630	0.26074334	2.4265760	21	4 30.5	21.3
454853 2015 RG_{244}	15.9	X	282.03578	279.84403	179.24772	26.03583	0.2362222	0.17309578	3.1886858	21	10 4.5	20.1
454854 2015 SU_{5}	16.1	X	83.25046	5.13298	311.13832	11.02490	0.1876698	0.19024560	2.9940540	21	12 21.6	20.9
454855 2015 SN_{6}	16.6	X	93.37255	216.80464	209.14307	13.46525	0.1503479	0.23296257	2.6158447	21	2 6.1	20.0
454856 2015 SY_{9}	17.7	X	165.70653	163.55275	125.88389	23.90682	0.0538503	0.36753465	1.9302069	21	—	—
454857 2015 SS_{10}	16.6	X	7.29695	133.64596	263.26724	2.07341	0.1132595	0.18856490	3.0118187	21	12 16.2	20.3
454858 2015 SS_{12}	17.0	X	214.58656	325.91269	330.91381	11.17377	0.0440837	0.24436511	2.5338248	21	1 11.4	20.6
454859 2015 SB_{13}	16.5	X	135.77824	93.51556	190.93780	14.61110	0.1450014	0.20618164	2.8377190	21	12 29.6	21.4
454860 2015 SH_{16}	17.3	X	193.31937	289.35058	99.86535	6.06139	0.2328867	0.26734823	2.3864436	21	4 16.6	21.4
454861 2015 SE_{18}	17.8	X	190.47993	306.46124	66.49398	2.88768	0.1794059	0.26391902	2.4070711	21	3 22.7	21.6
454862 2015 SP_{18}	16.8	X	86.29126	279.04655	100.65188	4.95974	0.0997937	0.21594763	2.7515057	21	—	—
454863 2015 SN_{19}	17.5	X	215.27888	278.25239	111.05533	7.45067	0.1524740	0.27574126	2.3377687	21	5 6.2	21.2
454864 2015 SU_{19}	15.6	X	41.36432	273.15623	65.55917	11.66792	0.1818688	0.17329782	3.1862069	21	11 28.3	19.9
454865 2015 TE_{3}	16.2	X	353.32192	355.63429	31.75614	9.80625	0.0762225	0.17499246	3.1656033	21	11 6.7	20.3
454866 2015 TF_{13}	16.3	X	64.79922	102.44014	185.89311	25.56655	0.2140712	0.18152457	3.0891982	21	11 3.8	21.0
454867 2015 TK_{22}	17.6	X	178.13668	198.70919	192.61886	5.92974	0.1138703	0.26275419	2.4141799	21	3 29.9	21.0
454868 2015 TB_{23}	17.7	X	253.50687	328.56082	37.28218	3.10063	0.2088185	0.28792708	2.2713342	21	5 5.2	21.2
454869 2015 TY_{43}	17.7	X	246.70605	299.65585	338.23179	1.88605	0.1788605	0.25640805	2.4538515	21	1 14.6	21.7
454870 2015 TB_{57}	18.1	X	17.04080	48.69849	233.57500	5.11785	0.1165080	0.31706436	2.1299583	21	8 8.4	19.8
454871 2015 TD_{62}	16.2	X	77.98366	262.72281	62.79964	10.61792	0.1495794	0.19195519	2.9762505	21	12 22.7	20.7
454872 2015 TZ_{62}	15.7	X	73.73590	108.14816	220.95343	9.18048	0.1080309	0.17999160	3.1067137	21	12 15.9	20.3
454873 2015 TK_{63}	16.7	X	58.67121	350.97542	37.61996	8.69336	0.0406535	0.19641781	2.9309977	21	—	—
454874 2015 TD_{64}	15.8	X	49.73209	135.65206	226.57400	12.24997	0.0921355	0.18163569	3.0879382	21	12 24.9	20.2
454875 2015 TZ_{64}	16.4	X	163.13107	40.54237	228.88838	9.72686	0.0920988	0.19181454	2.9777052	21	—	—
454876 2015 TD_{67}	18.1	X	223.57763	226.81244	240.94777	3.41686	0.1323033	0.30628040	2.1796658	21	8 27.8	21.0
454877 2015 TR_{68}	18.1	X	171.55030	178.67602	292.60160	3.93490	0.2021866	0.27968088	2.3157635	21	7 8.5	21.8
454878 2015 TU_{68}	17.0	X	39.47253	218.06954	239.72523	7.12973	0.1966687	0.21131038	2.7916149	21	—	—
454879 2015 TH_{69}	16.8	X	20.97438	250.71749	234.48737	13.35942	0.0727112	0.21946534	2.7220248	21	1 1.5	20.3
454880 2015 TX_{69}	15.4	X	106.55818	42.41498	254.00434	8.05632	0.0823696	0.17731348	3.1379177	21	12 9.3	20.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
454881 2015 TJ_{72}	18.0	X	176.45019	114.27405	304.31405	0.46808	0.1744783	0.26407635	2.4061150	21	5 4.9	21.9
454882 2015 TN_{72}	16.4	X	351.65860	211.11266	226.56867	10.44567	0.0746364	0.18378975	3.0637631	21	—	—
454883 2015 TL_{75}	17.3	X	32.43604	260.24535	211.47379	5.32873	0.0062654	0.22211225	2.7003561	21	1 3.4	21.0
454884 2015 TD_{76}	16.8	X	339.68396	251.91422	223.32511	4.73166	0.1265619	0.19195630	2.9762390	21	—	—
454885 2015 TE_{76}	18.2	X	176.65093	229.08677	212.05154	6.63243	0.1741922	0.27201608	2.3590637	21	6 3.7	22.0
454886 2015 TW_{77}	16.2	X	8.70741	40.44723	43.52363	9.50086	0.2093618	0.19062117	2.9901200	21	—	—
454887 2015 TM_{78}	16.5	X	77.96175	323.69612	36.08924	10.79975	0.1031198	0.19276800	2.9678783	21	—	—
454888 2015 TD_{79}	17.7	X	162.77281	219.19329	223.92577	2.67116	0.0982262	0.26718088	2.3874400	21	5 19.8	21.0
454889 2015 TU_{79}	17.7	X	111.02606	69.80191	354.26651	3.05137	0.1956544	0.23350149	2.6118182	21	3 11.1	21.1
454890 2015 TL_{80}	15.8	X	334.89435	3.38180	30.06721	9.94761	0.0778483	0.15601905	3.4173094	21	10 17.1	20.2
454891 2015 TR_{86}	17.1	X	78.24043	263.08542	214.27359	8.14601	0.1171180	0.23884825	2.5726932	21	3 21.0	20.2
454892 2015 TH_{88}	17.6	X	106.19851	238.50068	218.00800	13.10598	0.1419457	0.24270842	2.5453420	21	4 5.4	21.1
454893 2015 TN_{89}	18.2	X	182.34206	52.35683	21.19787	4.99401	0.1729229	0.27042384	2.3683146	21	5 28.7	21.9
454894 2015 TB_{90}	16.4	X	147.21634	114.13740	244.21001	5.27924	0.0441111	0.22174384	2.7033463	21	1 11.1	20.2
454895 2015 TJ_{90}	16.0	X	51.96562	345.27395	35.56147	10.84208	0.0638726	0.18609889	3.0383668	21	—	—
454896 2015 TQ_{93}	16.1	X	33.02671	153.84498	238.66797	10.50931	0.1168719	0.18329062	3.0693228	21	—	—
454897 2015 TR_{95}	17.4	X	121.43830	6.42592	25.76716	2.81156	0.0646581	0.22693410	2.6619683	21	1 25.3	21.0
454898 2015 TP_{97}	16.5	X	77.93662	100.55600	236.76812	3.26460	0.1693153	0.18517568	3.0484570	21	—	—
454899 2015 TR_{99}	16.1	X	6.85716	210.27411	213.30673	10.65051	0.1085792	0.18287356	3.0739875	21	—	—
454900 2015 TK_{102}	16.1	X	184.08953	218.29856	85.61374	10.92172	0.1643139	0.21996538	2.7178980	21	—	—
454901 2015 TF_{103}	15.6	X	15.14327	228.08449	128.91604	9.47627	0.0700164	0.15850253	3.3815196	21	11 1.6	20.3
454902 2015 TG_{103}	17.1	X	116.83773	194.67378	177.96445	9.91593	0.2287933	0.21919137	2.7242926	21	1 17.6	21.0
454903 2015 TA_{110}	17.6	X	143.77856	228.14621	61.79459	22.64735	0.0504705	0.35963490	1.9583704	21	—	—
454904 2015 TW_{113}	15.9	X	2.74109	328.52534	102.74044	14.24622	0.2390043	0.17934726	3.1141501	21	—	—
454905 2015 TF_{114}	15.7	X	351.35999	359.09331	70.85351	13.26027	0.1199115	0.17735021	3.1374845	21	12 30.8	19.6
454906 2015 TE_{122}	17.0	X	260.12292	134.59713	93.07949	10.35131	0.0863641	0.21779159	2.7359531	21	—	—
454907 2015 TX_{129}	16.7	X	320.97092	353.43389	168.59525	14.02225	0.0234734	0.21068659	2.7971223	21	—	—
454908 2015 TA_{130}	17.1	X	161.45645	198.14235	148.58540	6.66596	0.2846338	0.23670307	2.5882136	21	2 2.1	21.5
454909 2015 TK_{131}	16.5	X	54.19963	50.89347	77.26762	12.14123	0.1583082	0.23292885	2.6160971	21	3 11.3	19.5
454910 2015 TB_{132}	16.3	X	202.17675	152.04595	87.67103	12.10443	0.0026995	0.19243105	2.9713419	21	—	—
454911 2015 TE_{132}	17.0	X	14.44368	318.29769	175.37073	11.90887	0.1513501	0.21530472	2.7569804	21	—	—
454912 2015 TM_{133}	16.3	X	341.14291	255.89522	181.85789	15.97700	0.1851906	0.17607725	3.1525881	21	12 26.7	20.1
454913 2015 TT_{135}	16.9	X	40.39066	266.23662	116.72002	10.20320	0.1168388	0.18476879	3.0529309	21	—	—
454914 2015 TC_{136}	16.6	X	318.31288	58.75317	157.21592	11.80283	0.0635098	0.23445125	2.6047598	21	1 29.3	20.1
454915 2015 TJ_{136}	16.5	X	129.89687	220.82989	108.54220	10.42844	0.1350417	0.20622411	2.8373294	21	—	—
454916 2015 TN_{136}	17.2	X	156.75239	161.52062	173.13182	14.05202	0.1930130	0.22393063	2.6857179	21	1 8.5	21.6
454917 2015 TX_{137}	15.5	X	93.92048	217.37515	88.71490	13.38628	0.1292072	0.17785918	3.1314960	21	12 12.5	20.2
454918 2015 TW_{139}	16.2	X	19.83986	284.86850	108.64084	12.19525	0.1642938	0.17866328	3.1220931	21	—	—
454919 2015 TR_{146}	15.7	X	70.94713	277.23221	30.00215	16.95264	0.1898059	0.17733362	3.1376801	21	11 23.1	20.5
454920 2015 TR_{147}	17.1	X	197.79260	128.99818	194.61702	14.40858	0.2007410	0.24233184	2.5479783	21	1 26.7	21.6
454921 2015 TV_{147}	16.4	X	108.94296	302.07636	73.24298	6.76969	0.1087004	0.21642680	2.7474430	21	—	—
454922 2015 TH_{150}	17.6	X	77.69395	203.26234	198.69223	1.64337	0.0756598	0.22256143	2.6967216	21	—	—
454923 2015 TR_{151}	15.9	X	16.44481	159.61490	191.00347	17.53039	0.0821434	0.17122646	3.2118515	21	10 27.6	20.1
454924 2015 TE_{153}	17.4	X	136.08636	320.72622	186.19959	5.91100	0.0774981	0.29777297	2.2209862	21	7 12.4	20.4
454925 2015 TP_{154}	17.7	X	195.53512	214.74266	199.96733	6.53658	0.0776442	0.28319502	2.2965663	21	5 18.2	20.8
454926 2015 TL_{155}	17.4	X	74.72894	74.07554	10.71008	8.28494	0.1672262	0.23458207	2.6037913	21	2 12.1	20.3
454927 2015 TU_{157}	17.1	X	83.31277	340.73198	2.93036	4.27963	0.0996785	0.20020352	2.8939315	21	—	—
454928 2015 TV_{157}	16.4	X	50.86000	27.87683	306.82081	1.18491	0.0602970	0.18006590	3.1058590	21	11 19.2	20.7
454929 2015 TG_{158}	17.2	X	338.64878	219.32857	6.73957	6.29156	0.0454336	0.26460712	2.4028963	21	3 11.4	20.0
454930 2015 TS_{158}	17.1	X	49.16176	262.04423	185.77935	2.46185	0.0735505	0.22747593	2.6577395	21	—	—
454931 2015 TC_{159}	16.9	X	331.56059	16.94272	192.80253	15.59457	0.0197358	0.25143097	2.4861283	21	2 8.2	20.4
454932 2015 TG_{159}	18.7	X	9.08969	273.61292	20.24937	6.50820	0.1632376	0.31767718	2.1272182	21	8 23.6	20.1
454933 2015 TB_{162}	16.6	X	161.33213	236.10773	138.02280	4.70761	0.2537814	0.24065228	2.5598198	21	3 5.1	20.9
454934 2015 TC_{169}	17.2	X	330.33138	183.65865	99.04938	6.55816	0.1870509	0.28178541	2.3042188	21	4 27.6	19.4
454935 2015 TG_{171}	16.4	X	86.07063	316.64868	62.74612	10.26978	0.1393166	0.20824411	2.8189512	21	—	—
454936 2015 TL_{175}	17.8	X	261.04174	211.09427	105.12611	7.40312	0.0874617	0.26206578	2.4184058	21	3 27.2	21.2
454937 2015 TL_{176}	16.5	X	200.28328	242.93775	66.57708	16.14246	0.1614006	0.23282380	2.6168839	21	1 16.9	20.9
454938 2015 TN_{177}	18.0	X	243.29208	255.99848	136.77659	4.13516	0.2240600	0.28861192	2.2677397	21	5 30.7	21.5
454939 2015 TZ_{177}	17.1	X	285.65988	351.97124	256.88872	13.95169	0.0626749	0.24107652	2.5568158	21	1 25.9	20.9
454940 2015 TD_{180}	17.1	X	16.97076	296.21046	76.87384	9.97898	0.0944327	0.17168317	3.2061529	21	11 25.6	21.2
454941 2015 TJ_{180}	18.3	X	173.11383	71.44573	27.79181	7.44009	0.2824721	0.27429616	2.3459724	21	6 25.3	22.5
454942 2015 TL_{184}	16.1	X	3.02664	282.22569	93.69464	3.13997	0.1289569	0.17306624	3.1890486	21	11 12.0	19.9
454943 2015 TY_{187}	15.3	X	300.45860	29.28801	88.77433	10.93859	0.0541074	0.17638200	3.1489556	21	12 16.3	19.4
454944 2015 TS_{188}	16.5	X	4.34205	231.42216	206.78029	6.06045	0.1428259	0.18940444	3.0029120	21	—	—
454945 2015 TH_{191}	17.7	X	252.26381	119.20501	191.79763	3.79885	0.1362850	0.26981381	2.3718830	21	2 28.6	21.2
454946 2015 TY_{191}	18.4	X	206.62055	237.25159	143.46020	1.88528	0.1919796	0.27359580	2.3499742	21	4 14.3	22.3
454947 2015 TE_{192}	17.1	X	102.41924	11.47837	35.10461	8.49476	0.1781143	0.23243440	2.6198059	21	2 6.3	20.5
454948 2015 TJ_{192}	17.4	X	158.32121	340.14331	49.52302	8.49847	0.1704797	0.25314590	2.4748875	21	3 17.1	21.3
454949 2015 TK_{192}	15.9	X	53.63863	240.72420	85.66586	5.38974	0.1224809	0.18025410	3.1036967	21	11 22.4	20.1
454950 2015 TZ_{192}	17.6	X	127.98905	192.62503	200.87393	8.58482	0.1637152	0.23948039	2.5681640	21	2 12.1	21.3
454951 2015 TJ_{193}	16.5	X	13.38748	246.15440	199.30655	19.17642	0.1501124	0.20559924	2.8430754	21	—	—
454952 2015 TM_{193}	17.3	X	139.81345	84.04687	245.19116	3.92945	0.1777124	0.22274893	2.6952081	21	—	—
454953 2015 TO_{193}	16.9	X	39.69533	90.94485	260.44622	2.22304	0.2477669	0.18366687	3.0651295	21	12 23.0	20.9
454954 2015 TK_{196}	17.1	X	149.85508	4.40179	107.91338	5.29245	0.0970936	0.28482144	2.2878152	21	6 13.3	20.3
454955 2015 TA_{197}	17.3	X	78.02543	310.95186	72.26794	5.42257	0.2065630	0.21188959	2.7865251	21	—	—
454956 2015 TN_{197}	16.4	X	357.28060	66.51548	14.45999	9.97483	0.2199861	0.18838023	3.0137866	21	—	—
454957 2015 TY_{197}	16.7	X	20.82871	30.61680	33.02939	7.03730	0.1011018	0.20085941	2.8876281	21	—	—
454958 2015 TJ_{198}	18.4	X	338.18291	242.54494	56.28078	7.52823	0.2696337	0.31057584	2.1595219	21	5 19.2	19.3
454959 2015 TK_{198}	15.7	X	226.52581	123.23393	32.16346	22.49925	0.0566613	0.17425507	3.1745276	21	10 28.9	20.3
454960 2015 TB_{199}	17.7	X	206.63448	245.76531	125.11131	2.29570	0.1890965	0.26807981	2.3821000	21	4 2.7	21.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
454961 2015 TH_{199}	16.6	X	179.56097	343.22359	28.46126	12.30225	0.2876623	0.25601090	2.4563887	21	3 19.6	21.0
454962 2015 TM_{200}	15.9	X	343.27944	220.85417	217.38821	17.17576	0.2572576	0.18145262	3.0900148	21	—	—
454963 2015 TP_{202}	17.3	X	240.29580	211.66146	123.04714	3.07042	0.2196025	0.26980003	2.3719638	21	3 16.6	21.3
454964 2015 TZ_{202}	18.0	X	245.46445	182.62006	224.84596	1.79650	0.2264151	0.29508284	2.2344643	21	6 20.4	21.3
454965 2015 TF_{203}	18.4	X	219.63016	143.69047	228.59635	1.65710	0.2257738	0.27364654	2.3496837	21	4 13.0	22.4
454966 2015 TQ_{204}	16.2	X	113.39637	288.49858	38.39799	17.75635	0.1601271	0.20118728	2.8844900	21	—	—
454967 2015 TS_{204}	15.7	X	23.84167	342.84298	48.89742	5.75711	0.0692952	0.18181899	3.0858623	21	12 25.9	19.8
454968 2015 TU_{204}	17.6	X	217.40271	302.18417	56.60800	5.51231	0.1966235	0.26558411	2.3969998	21	3 29.4	21.5
454969 2015 TV_{204}	15.8	X	293.77965	297.85875	203.22899	13.07727	0.0702750	0.18650301	3.0339760	21	—	—
454970 2015 TD_{205}	15.2	X	21.98132	318.14856	46.86564	17.60435	0.1091225	0.17013943	3.2255175	21	11 21.4	19.5
454971 2015 TE_{206}	16.7	X	51.12504	114.17309	195.70320	5.53794	0.2483644	0.17637086	3.1490882	21	11 16.5	21.1
454972 2015 TL_{207}	18.3	X	270.79627	113.31635	211.91805	2.51929	0.1111468	0.28278687	2.2987755	21	4 10.6	21.3
454973 2015 TU_{208}	16.0	X	359.30812	156.20921	243.03181	9.19302	0.1074441	0.17596146	3.1539708	21	12 3.7	19.8
454974 2015 TV_{208}	16.9	X	73.20213	156.71229	244.29941	8.16368	0.1458923	0.21127686	2.7919101	21	—	—
454975 2015 TF_{209}	17.6	X	254.72962	336.21474	12.61866	3.23230	0.1029042	0.27777350	2.3263524	21	4 24.6	20.8
454976 2015 TG_{209}	18.0	X	233.39471	356.65840	355.77886	1.99947	0.2001232	0.27204469	2.3588983	21	3 31.9	21.8
454977 2015 TX_{209}	17.7	X	189.56177	130.45215	262.58912	5.23951	0.1327641	0.26311806	2.4119536	21	4 11.5	21.5
454978 2015 TU_{210}	17.8	X	193.81545	355.88629	319.05148	1.42825	0.1287361	0.24378428	2.5378479	21	1 13.1	21.7
454979 2015 TC_{211}	16.3	X	83.53296	310.05924	326.46008	3.91948	0.0459283	0.17089278	3.2160311	21	10 14.6	20.9
454980 2015 TA_{214}	16.5	X	284.49417	314.35819	234.28069	4.15563	0.0466450	0.21975578	2.7196259	21	—	—
454981 2015 TS_{219}	16.6	X	53.44581	346.24247	30.01445	8.47579	0.0486834	0.19926702	2.9029915	21	—	—
454982 2015 TU_{219}	17.7	X	160.12662	251.98338	152.73675	2.42869	0.1676156	0.25915385	2.4364880	21	4 2.6	21.4
454983 2015 TG_{221}	16.8	X	26.66923	215.65441	157.69011	3.01870	0.0986695	0.18428876	3.0582300	21	12 11.9	20.9
454984 2015 TT_{223}	16.6	X	117.79676	19.11508	34.81548	12.37734	0.1561017	0.23438307	2.6052649	21	3 6.7	20.3
454985 2015 TC_{224}	17.5	X	137.20855	41.90507	50.56999	1.93928	0.1600084	0.25719189	2.4488632	21	5 9.7	21.0
454986 2015 TJ_{224}	15.3	X	241.29868	293.92319	243.03445	11.17897	0.0188859	0.17881069	3.1203769	21	12 17.5	19.7
454987 2015 TS_{229}	17.7	X	349.46110	220.11089	258.29138	18.79352	0.0594348	0.37552335	1.9027340	21	—	—
454988 2015 TG_{231}	16.6	X	92.33606	82.02840	335.92383	10.74367	0.1497159	0.22006119	2.7171091	21	2 3.6	20.0
454989 2015 TV_{231}	16.1	X	11.12678	286.28061	124.49727	15.68506	0.2425226	0.18104550	3.0946454	21	—	—
454990 2015 TZ_{232}	18.5	X	15.12802	248.89310	207.38992	18.93876	0.0763461	0.38306894	1.8776649	21	—	—
454991 2015 TG_{233}	16.9	X	356.35371	249.51141	160.26298	3.77491	0.2298373	0.17483458	3.1675087	21	12 23.5	20.2
454992 2015 TY_{233}	17.6	X	261.44346	60.26121	309.00286	7.62628	0.1529089	0.29348945	2.2425444	21	5 22.9	20.8
454993 2015 TG_{241}	17.7	X	247.76538	108.76041	313.34620	4.33589	0.1187754	0.30486575	2.1864034	21	7 27.5	20.2
454994 2015 TE_{242}	17.3	X	213.92540	7.37713	338.00182	3.45434	0.1124638	0.25830626	2.4418150	21	3 8.4	20.8
454995 2015 TV_{242}	18.3	X	179.57097	41.79143	359.32629	3.01131	0.2326608	0.26172997	2.4204740	21	4 17.0	22.3
454996 2015 TM_{243}	18.8	X	255.08109	82.44965	298.35659	1.76262	0.1695382	0.29054697	2.2576597	21	5 31.2	21.9
454997 2015 TP_{243}	16.2	X	357.81763	66.38806	356.92661	7.64275	0.0698866	0.18341248	3.0679630	21	12 30.7	20.3
454998 2015 TQ_{243}	16.0	X	48.57369	347.15819	7.57296	9.87687	0.1122051	0.17952732	3.1120675	21	12 17.4	20.5
454999 2015 TH_{246}	17.0	X	119.22756	19.64071	314.88498	1.05805	0.0831410	0.21320600	2.7750434	21	—	—
455000 2015 TD_{248}	16.2	X	141.66786	229.94641	22.61389	10.43455	0.0931686	0.18641449	3.0349365	21	11 23.0	20.9
455001 2015 TQ_{248}	16.3	X	354.43120	226.74469	202.03254	5.69528	0.1815394	0.18464451	3.0543006	21	—	—
455002 2015 TT_{252}	16.9	X	111.47092	216.12802	204.14916	10.44023	0.1898753	0.23523162	2.5989959	21	3 2.6	20.5
455003 2015 TW_{252}	17.6	X	231.19398	252.28355	82.27447	2.38989	0.1955412	0.26496076	2.4007577	21	3 10.2	21.4
455004 2015 TS_{254}	17.0	X	63.27638	243.80247	128.34966	3.12844	0.1013724	0.19434686	2.9517825	21	—	—
455005 2015 TG_{257}	16.9	X	10.57409	184.99726	213.69635	1.90497	0.1000623	0.18471001	3.0535785	21	12 20.8	20.9
455006 2015 TL_{259}	16.1	X	78.38244	151.56712	240.88769	10.35689	0.0220878	0.21415813	2.7668121	21	—	—
455007 2015 TM_{260}	17.8	X	275.51965	329.54872	36.79189	6.24860	0.1956269	0.29341294	2.2429342	21	5 31.0	20.7
455008 2015 TV_{265}	17.4	X	5.58887	264.63433	238.03129	5.28505	0.0807217	0.23399224	2.6081651	21	—	—
455009 2015 TY_{265}	16.7	X	77.71196	108.20848	214.15350	9.61035	0.1247709	0.19061495	2.9901851	21	12 16.1	21.2
455010 2015 TA_{281}	16.0	X	23.95942	131.94075	217.72762	9.17601	0.0983758	0.17259673	3.1948294	21	11 6.6	20.1
455011 2015 TT_{281}	16.4	X	38.78792	262.27553	207.03757	21.83334	0.0607035	0.23095986	2.6309447	21	1 2.9	20.2
455012 2015 TK_{283}	17.0	X	48.03466	19.84667	333.66703	3.75316	0.1274876	0.18636911	3.0354291	21	12 19.4	21.3
455013 2015 TO_{283}	17.0	X	317.98225	191.20543	247.00050	2.86154	0.1529230	0.17542773	3.1603649	21	11 14.9	20.6
455014 2015 TK_{287}	17.8	X	225.52585	77.49796	314.96814	8.93653	0.1840892	0.28358643	2.2944526	21	5 12.5	21.6
455015 2015 TR_{288}	17.8	X	186.42874	145.85874	248.65124	1.40868	0.2038726	0.26889386	2.3772898	21	4 13.4	21.7
455016 2015 TA_{298}	16.7	X	154.86075	57.35733	332.61991	13.48107	0.2048002	0.24527846	2.5275307	21	3 10.7	20.7
455017 2015 TN_{298}	16.3	X	37.11006	71.74731	318.21657	9.92827	0.1373493	0.18853836	3.0121013	21	—	—
455018 2015 TR_{303}	16.2	X	1.89879	337.91394	73.91433	6.26825	0.1346774	0.18188532	3.0851121	21	12 27.4	19.9
455019 2015 TF_{306}	15.6	X	29.91734	288.79046	68.37026	11.60782	0.0796324	0.17491416	3.1665479	21	11 22.5	19.7
455020 2015 TG_{315}	15.6	X	116.43024	221.28489	47.11029	8.74132	0.0258696	0.17282010	3.1920760	21	11 11.5	20.3
455021 2015 TV_{321}	17.5	X	207.69030	90.94831	268.99460	6.54993	0.2186878	0.26105185	2.4246638	21	3 17.1	21.7
455022 2015 TD_{322}	17.2	X	232.53864	313.58334	50.03676	7.40756	0.1547685	0.27143358	2.3624376	21	4 18.6	20.7
455023 2015 TV_{325}	15.7	X	72.94289	189.40960	124.34213	9.97395	0.1710518	0.18099852	3.0951808	21	12 6.4	20.4
455024 2015 TD_{328}	15.9	X	48.19876	246.76291	66.16569	17.81034	0.3557150	0.17764629	3.1339973	21	11 30.3	20.5
455025 2015 TQ_{328}	17.4	X	143.91791	274.63250	103.40126	9.74108	0.1788179	0.23834077	2.5763438	21	2 17.4	21.3
455026 2015 TS_{334}	16.4	X	180.29633	188.84923	136.43290	12.70333	0.1251918	0.23248320	2.6194392	21	1 13.6	20.5
455027 2015 TQ_{335}	16.0	X	111.12562	231.84064	43.18252	10.10114	0.0659044	0.17511623	3.1641115	21	11 16.5	20.7
455028 2015 TT_{336}	17.1	X	219.55121	280.25816	63.05935	2.22014	0.1881798	0.26334385	2.4105747	21	3 11.2	21.0
455029 2015 TC_{337}	17.6	X	170.19247	274.44733	85.20814	8.27838	0.1494496	0.24360857	2.5390681	21	2 17.9	21.6
455030 2015 TO_{339}	15.4	X	19.73584	286.50066	77.07137	17.57912	0.2151715	0.17226346	3.1989487	21	12 3.5	19.1
455031 2015 TQ_{343}	16.5	X	108.95922	268.39672	38.65898	10.75306	0.0515248	0.18898643	3.0073384	21	12 23.5	21.0
455032 2015 TN_{346}	16.4	X	107.42254	91.02831	189.38660	13.08578	0.0863870	0.17518029	3.1633401	21	11 23.2	21.3
455033 2015 TH_{348}	16.3	X	229.22145	143.50442	46.18325	12.60920	0.0139580	0.18750432	3.0231651	21	12 20.0	20.7
455034 2015 TL_{349}	18.0	X	329.06640	159.28183	115.02392	3.69072	0.1193574	0.28284251	2.2984740	21	4 22.4	20.4
455035 2015 TX_{349}	17.1	X	60.18068	101.00292	67.23639	6.43957	0.1010922	0.26537451	2.3982618	21	5 1.6	19.6
455036 2015 TY_{349}	16.4	X	64.87135	198.89328	154.35387	9.13973	0.0991512	0.18629861	3.0361949	21	—	—
455037 2015 UP	17.2	X	107.20059	292.32850	49.21051	8.30299	0.2338080	0.20950537	2.8076261	21	—	—
455038 2015 UY_{5}	16.3	X	341.66669	32.55204	20.77233	4.74897	0.1328369	0.17708762	3.1405853	21	11 23.9	19.9
455039 2015 UC_{6}	16.6	X	206.79779	271.51120	60.21186	16.07643	0.2865911	0.25947148	2.4344991	21	2 22.3	21.3
455040 2015 UO_{6}	16.4	X	79.30533	21.88915	60.50653	14.53540	0.2336291	0.22857348	2.6492249	21	3 5.9	19.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
455041 2015 UY_6	17.9	X	202.80182	295.49045	73.42893	4.96068	0.2659425	0.26557800	2.3970365	21	3 29.9	22.1
455042 2015 UA_7	16.1	X	54.52075	251.01671	109.50310	7.75878	0.2127963	0.18892303	3.0080112	21	—	—
455043 2015 UD_7	16.0	X	353.66812	342.85671	71.53935	11.21176	0.0794862	0.18153070	3.0891286	21	12 12.9	19.8
455044 2015 UO_7	16.0	X	33.30552	268.45729	144.58629	13.01545	0.1677092	0.19033153	2.9931528	21	—	—
455045 2015 UR_7	16.3	X	7.45944	352.58754	26.55295	13.76720	0.0671907	0.17733480	3.1376661	21	11 14.4	20.5
455046 2015 UU_7	16.8	X	144.86202	111.17755	168.49832	5.17472	0.0776557	0.19950194	2.9007121	21	12 31.8	21.3
455047 2015 UY_9	18.1	X	140.26752	57.13184	80.31646	2.02058	0.1590164	0.28802771	2.2708051	21	7 11.8	21.4
455048 2015 UC_{10}	17.4	X	70.81669	328.65062	185.38519	3.36745	0.0770346	0.26764369	2.3846870	21	4 23.5	20.1
455049 2015 UV_{10}	16.8	X	327.38335	87.20948	28.65091	9.67722	0.1369059	0.19587655	2.9363946	21	—	—
455050 2015 UO_{11}	17.4	X	280.34093	236.95704	35.59008	6.36415	0.0931400	0.25999756	2.4312141	21	2 19.6	20.8
455051 2015 US_{11}	17.0	X	119.97073	161.86878	197.34410	5.06791	0.0601771	0.22123281	2.7075077	21	—	—
455052 2015 UW_{11}	17.4	X	87.55147	34.92189	12.37346	3.45456	0.1023713	0.22504145	2.6768726	21	1 3.9	20.7
455053 2015 UO_{12}	18.2	X	178.59799	118.29173	208.90544	2.97980	0.1987011	0.24022075	2.5628845	21	1 17.6	22.3
455054 2015 UF_{15}	18.2	X	307.47634	231.21701	73.14387	2.24226	0.1363709	0.28993250	2.2608484	21	4 27.2	20.5
455055 2015 UF_{16}	17.8	X	159.37210	29.22691	42.78033	6.85551	0.0954817	0.27001646	2.3706961	21	4 30.4	21.0
455056 2015 UM_{16}	17.6	X	281.82355	268.31272	46.40389	7.64626	0.1314417	0.28265741	2.2994774	21	4 9.7	20.5
455057 2015 UH_{19}	17.6	X	21.06463	295.11185	133.02739	1.01554	0.1271293	0.20007457	2.8951748	21	—	—
455058 2015 UP_{19}	18.2	X	152.02705	238.61137	175.31785	1.38565	0.1576611	0.25609575	2.4558460	21	4 5.2	21.9
455059 2015 UN_{22}	16.2	X	354.46687	358.08909	53.96671	5.98274	0.1326869	0.18032336	3.1029020	21	12 14.9	19.9
455060 2015 UF_{26}	16.0	X	214.79606	209.30196	46.32964	13.59871	0.1315675	0.21933626	2.7230927	21	—	—
455061 2015 UN_{26}	17.8	X	210.64208	205.27726	147.28539	3.42733	0.1887110	0.26294678	2.4130009	21	3 14.6	21.8
455062 2015 UC_{31}	16.9	X	348.89939	73.03640	40.79827	11.04997	0.0994078	0.20436516	2.8545094	21	—	—
455063 2015 UE_{31}	16.6	X	82.58416	246.18260	83.57948	3.14497	0.1024280	0.18982135	2.9985135	21	12 27.5	21.0
455064 2015 UG_{36}	17.1	X	90.07360	311.73495	55.56866	8.46687	0.1851237	0.20988597	2.8042309	21	—	—
455065 2015 UG_{37}	15.6	X	260.63330	291.16667	168.23952	10.22869	0.0457132	0.15741310	3.3971037	21	10 3.6	20.4
455066 2015 UY_{37}	16.9	X	54.79151	100.72810	231.48666	0.49696	0.1842299	0.18248578	3.0783408	21	12 8.9	21.3
455067 2015 UW_{38}	18.5	X	339.31100	261.73193	73.64806	1.55520	0.1763455	0.31830463	2.1244218	21	8 20.5	19.5
455068 2015 UX_{41}	16.5	X	70.39477	267.74546	178.94668	12.90577	0.1317248	0.22540594	2.6739861	21	1 29.9	19.7
455069 2015 UE_{42}	16.5	X	265.05737	13.46488	128.71766	10.20874	0.0376125	0.17550315	3.1594593	21	12 3.7	21.0
455070 2015 UV_{42}	17.6	X	9.88803	64.39321	164.68459	8.52758	0.0956270	0.26975473	2.3722293	21	5 2.9	20.1
455071 2015 UP_{43}	16.2	X	268.56673	27.11025	112.43518	10.56810	0.0461984	0.17475931	3.1684182	21	12 3.4	20.6
455072 2015 UO_{44}	17.7	X	230.17685	274.69358	104.66074	6.67808	0.2576552	0.27877129	2.3207981	21	5 1.9	21.7
455073 2015 UQ_{44}	15.4	X	343.53675	239.24342	139.66908	10.08669	0.0775561	0.15553577	3.4243845	21	10 14.7	20.0
455074 2015 UT_{44}	15.7	X	10.14162	322.20866	73.02311	17.56702	0.0295281	0.17530323	3.1618609	21	12 6.7	20.0
455075 2015 UX_{47}	15.2	X	272.03781	23.69020	116.96503	10.30292	0.0483173	0.17423636	3.1747549	21	12 8.3	19.7
455076 2015 UD_{49}	15.7	X	257.43646	72.31495	113.02535	12.21251	0.1131089	0.18552117	3.0446712	21	—	—
455077 2015 UH_{50}	15.6	X	151.29824	214.87147	81.58217	16.32017	0.1321751	0.20246889	2.8723048	21	—	—
455078 2015 UY_{50}	18.0	X	57.95049	66.83199	134.60871	6.62704	0.0344812	0.27817260	2.3241268	21	6 5.9	20.7
455079 2015 UU_{51}	17.3	X	301.71956	162.30030	148.26652	9.31834	0.2605017	0.28289536	2.2981877	21	4 11.3	20.3
455080 2015 UB_{53}	17.7	X	226.70373	142.57476	164.66531	2.47527	0.2128750	0.25492233	2.4633765	21	1 31.7	21.9
455081 2015 UJ_{53}	18.0	X	288.03507	247.78703	81.49589	4.88655	0.1929983	0.29199381	2.2501957	21	4 27.6	20.8
455082 2015 UR_{53}	16.3	X	149.40007	259.34858	89.48441	15.83440	0.2213357	0.22938587	2.6429662	21	1 22.7	20.5
455083 2015 UZ_{53}	17.4	X	42.49656	312.60463	168.83063	3.27572	0.0866556	0.23573264	2.5953120	21	1 26.9	20.2
455084 2015 UK_{54}	17.1	X	100.93195	250.02795	146.09218	2.39549	0.1523311	0.22553311	2.6729808	21	1 15.3	20.5
455085 2015 UX_{58}	16.9	X	302.70101	330.48253	144.60761	10.25985	0.0604063	0.17625310	3.1504908	21	12 16.0	21.2
455086 2015 UG_{62}	18.5	X	286.34470	306.42525	92.77215	3.78178	0.1297958	0.31709211	2.1298340	21	8 20.8	20.5
455087 2015 UT_{65}	16.3	X	340.23581	352.39461	90.38163	18.88660	0.1865945	0.17637857	3.1489964	21	12 31.9	19.8
455088 2015 UF_{66}	17.1	X	81.65169	280.11706	120.80703	12.17901	0.2021892	0.20928280	2.8096164	21	1 4.1	20.3
455089 2015 UZ_{66}	16.5	X	256.66143	247.91761	80.08889	24.33589	0.2439282	0.26814557	2.3817105	21	4 3.3	20.9
455090 2015 UL_{67}	17.7	X	293.91581	223.21835	266.20565	18.98638	0.0997708	0.36088758	1.9538359	21	—	—
455091 2015 UB_{68}	16.2	X	20.72281	334.43906	49.28559	10.49603	0.0967884	0.18740840	3.0241965	21	12 15.8	20.2
455092 2015 UJ_{68}	17.3	X	127.71205	225.96421	133.01391	3.87092	0.0916561	0.22457171	2.6806042	21	—	—
455093 2015 UT_{70}	17.7	X	132.28631	77.64288	32.69718	7.66394	0.0626900	0.27805943	2.3247573	21	5 14.3	20.8
455094 2015 UU_{72}	16.0	X	356.79181	37.17453	23.14445	8.50435	0.1673822	0.18210096	3.0826761	21	—	—
455095 2015 UA_{73}	16.0	X	325.22935	271.82493	211.19014	14.63853	0.3191303	0.18036370	3.1024393	21	—	—
455096 2015 UR_{73}	16.5	X	25.70284	59.23320	315.90321	7.58141	0.2431399	0.17959648	3.1112686	21	—	—
455097 2015 UL_{74}	16.2	X	347.46386	243.55470	222.61172	8.16699	0.1473630	0.18990345	2.9976493	21	—	—
455098 2015 UP_{74}	15.9	X	347.37329	124.61939	297.91709	8.88458	0.0870983	0.17917236	3.1161765	21	12 14.2	19.9
455099 2015 UT_{74}	16.5	X	39.05284	112.60398	336.00742	11.04873	0.1249670	0.21188347	2.7865788	21	—	—
455100 2015 UC_{77}	16.2	X	358.12714	29.76914	59.38613	10.49727	0.1709087	0.18402087	3.0611974	21	—	—
455101 2015 UG_{77}	18.0	X	216.05473	96.36535	283.42816	2.37694	0.2479497	0.26932816	2.3747334	21	4 18.5	22.0
455102 2015 UK_{77}	17.9	X	289.00940	230.08475	113.77838	1.56850	0.2479366	0.29245011	2.2478544	21	5 9.9	20.7
455103 2015 UZ_{79}	15.6	X	15.38607	254.77654	143.54504	13.82916	0.1865375	0.17937086	3.1138770	21	—	—
455104 2015 UA_{81}	16.4	X	69.86333	322.71479	153.11193	12.07708	0.1092409	0.23773833	2.5806944	21	3 8.2	19.2
455105 2015 UE_{81}	17.0	X	187.14518	218.69889	106.63768	14.78436	0.2649468	0.24094845	2.5577217	21	1 27.0	21.5
455106 2015 UA_{82}	17.9	X	149.51435	218.55607	210.05069	6.04455	0.1204629	0.26434760	2.4044688	21	4 17.0	21.1
455107 2015 UK_{82}	18.3	X	325.35614	272.96411	201.72486	20.37171	0.0953227	0.36892401	1.9253577	21	—	—
455108 2015 UN_{83}	18.0	X	284.98133	201.70450	136.64979	2.29654	0.2117400	0.29328775	2.2435725	21	5 2.9	20.9
455109 2015 VD_4	15.3	X	51.83005	258.16288	62.14139	12.03949	0.1030473	0.16980642	3.2297332	21	11 9.3	19.8
455110 2015 VG_5	16.3	X	234.82196	299.60859	343.64026	14.76494	0.1967791	0.24447331	2.5330771	21	1 15.6	20.8
455111 2015 VD_6	15.9	X	334.94476	266.92080	188.62700	17.72611	0.2092522	0.18073249	3.0982174	21	—	—
455112 2015 VU_6	17.6	X	327.40710	224.12698	98.68371	8.05396	0.2169175	0.30497665	2.1858733	21	6 17.2	18.9
455113 2015 VZ_7	16.2	X	84.44627	326.97689	327.20715	4.42180	0.1351007	0.18245734	3.0786606	21	11 18.6	20.9
455114 2015 VS_{24}	17.6	X	244.99985	296.77240	135.80056	4.89443	0.0952965	0.30427510	2.1892319	21	8 11.6	20.2
455115 2015 VD_{25}	18.2	X	195.04236	313.14308	87.50478	3.64299	0.1980800	0.26669506	2.3903385	21	4 30.3	22.1
455116 2015 VG_{25}	16.7	X	146.98523	226.56655	172.65114	11.73576	0.2009840	0.24029771	2.5623373	21	3 18.3	20.5
455117 2015 VB_{26}	15.9	X	36.86327	198.40659	190.67519	8.51994	0.0776157	0.18564163	3.0433540	21	—	—
455118 2015 VD_{26}	16.0	X	329.24547	230.51916	229.19026	11.73750	0.2184117	0.17386947	3.1792193	21	12 30.8	19.4
455119 2015 VZ_{29}	15.1	X	184.32462	307.00840	269.97634	8.04744	0.0580705	0.17503969	3.1650338	21	11 25.2	19.8
455120 2015 VT_{31}	18.4	X	196.51545	149.61701	251.34414	3.78456	0.2392683	0.26924280	2.3752353	21	4 29.9	22.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
455121 2015 VO_{33}	15.4	X	108.25232	53.01034	249.36709	9.90918	0.0553062	0.18023545	3.1039109	21	12 16.2	19.9
455122 2015 VC_{34}	16.4	X	97.00431	45.55658	269.68176	4.69123	0.1603533	0.18604785	3.0389225	21	12 29.4	21.2
455123 2015 VF_{39}	17.0	X	295.55143	0.38499	275.32716	5.49889	0.1388995	0.26204036	2.4185622	21	3 1.6	20.3
455124 2015 VY_{40}	17.2	X	178.35182	161.31196	153.27055	7.52735	0.2869559	0.23144755	2.6272475	21	1 9.2	21.8
455125 2015 VY_{41}	16.9	X	162.23237	253.20791	106.48013	10.70629	0.1161648	0.23317894	2.6142262	21	2 7.3	20.8
455126 2015 VO_{72}	16.3	X	351.70116	226.69939	192.32109	13.83149	0.1435151	0.17321918	3.1871713	21	12 18.4	20.4
455127 2015 VY_{72}	18.4	X	151.70703	107.44577	337.55799	2.31435	0.3192814	0.25958430	2.4337937	21	5 23.9	22.8
455128 2015 VQ_{74}	17.0	X	174.26774	214.32242	139.02529	3.89731	0.2171232	0.23875338	2.5733747	21	2 16.2	21.1
455129 2015 VR_{74}	17.3	X	89.41080	51.67140	350.13378	3.66399	0.2119506	0.21549306	2.7553738	21	1 18.4	20.4
455130 2015 VU_{78}	17.6	X	218.16857	290.95761	93.30463	7.20986	0.1400391	0.27581092	2.3373751	21	5 2.7	21.2
455131 2015 VP_{94}	15.9	X	310.12805	235.66789	243.67008	7.74404	0.0528766	0.18247538	3.0784578	21	12 31.5	20.1
455132 2015 VD_{96}	15.7	X	31.48618	115.77624	246.38831	17.07804	0.2050650	0.17753275	3.1353334	21	12 17.2	19.8
455133 2015 VH_{98}	17.5	X	168.20016	53.57262	57.43376	8.53090	0.0970151	0.28152942	2.3056154	21	7 2.9	20.8
455134 2015 VG_{99}	17.9	X	149.95196	356.18786	89.08524	2.45849	0.1324849	0.26202217	2.4186741	21	5 11.6	21.4
455135 2015 VW_{99}	17.4	X	114.38105	226.85434	169.79679	4.02989	0.0756516	0.22587930	2.6702490	21	1 22.1	21.0
455136 2015 VG_{101}	16.8	X	114.82688	268.63644	113.41295	6.81304	0.0796932	0.21885228	2.7271059	21	1 7.1	20.2
455137 2015 VL_{103}	17.7	X	355.28543	240.57797	78.51754	3.74535	0.1367412	0.30939909	2.1649940	21	8 31.2	19.2
455138 2015 VW_{104}	15.8	X	288.56977	61.24972	54.29996	11.74517	0.1033196	0.17011990	3.2257644	21	11 20.2	20.1
455139 2015 VO_{106}	15.8	X	94.41963	243.00370	93.09916	11.52857	0.0739240	0.19331699	2.9622568	21	—	—
455140 2015 VP_{107}	16.0	X	31.22934	131.48588	250.42965	10.52758	0.0207284	0.18380097	3.0636385	21	12 17.6	20.2
455141 2015 VE_{113}	16.9	X	169.98772	294.96516	67.57611	12.07562	0.1944193	0.23936540	2.5689864	21	2 27.7	21.3
455142 2015 VV_{113}	16.0	X	357.86492	357.34194	80.67406	8.08818	0.1766607	0.17876381	3.1209225	21	—	—
455143 2015 VF_{119}	16.3	X	6.70163	35.64788	61.25959	15.30579	0.0786143	0.19711069	2.9241250	21	—	—
455144 2015 VP_{124}	16.8	X	66.85959	12.12179	335.78817	2.03442	0.1759156	0.18551353	3.0447548	21	—	—
455145 1983 QB_{1}	18.1	X	308.56394	24.64772	329.68009	5.61875	0.1928166	0.28362234	2.2942589	21	7 6.0	20.2
455146 1993 FS	19.6	X	179.62077	21.46044	179.12749	10.11837	0.4252446	0.29689129	2.2253812	21	10 31.6	24.0
455147 1994 AH_{9}	18.5	X	2.31138	263.31780	122.54022	2.35975	0.1713634	0.31603581	2.1345771	21	—	—
455148 1994 UG	21.1	X	265.63464	225.44066	13.61688	5.21411	0.2926627	0.71440684	1.2392882	21	—	—
455149 1995 LF	20.6	X	162.99995	77.45453	130.24413	4.45384	0.4350972	0.28060535	2.3106744	21	10 29.7	25.3
455150 1995 TC_{10}	18.4	X	330.89520	230.43153	160.57462	2.65117	0.1652182	0.30578970	2.1819970	21	11 7.2	19.7
455151 1995 UF_{56}	18.9	X	14.77880	38.38976	311.77301	1.29247	0.1479231	0.30487490	2.1863596	21	11 27.2	20.9
455152 1995 VN_{8}	18.7	X	291.00478	153.84548	225.09932	1.62794	0.1955639	0.29768246	2.2214364	21	7 12.0	21.0
455153 1995 YD_{15}	18.0	X	329.20712	256.27521	120.55962	4.85115	0.1767394	0.30092117	2.2054686	21	10 9.6	19.3
455154 1996 RQ_{19}	17.7	X	227.35563	25.53694	15.93792	2.26663	0.2276983	0.26768841	2.3844214	21	5 26.7	21.5
455155 1996 TE_{36}	17.1	X	257.25057	150.66329	216.13895	4.52191	0.1998413	0.26581838	2.3955912	21	5 13.0	20.7
455156 1996 VA_{23}	15.7	X	115.80331	278.69001	84.34130	14.40941	0.1110674	0.16833777	3.2484910	21	—	—
455157 1997 YM_{3}	17.1	X	11.05995	77.95746	299.64376	3.85473	0.6584602	0.16414482	3.3035782	21	—	—
455158 1998 KP_{43}	17.5	X	4.24186	209.49217	94.18913	8.69188	0.2171854	0.30130326	2.2036037	21	9 5.0	18.9
455159 1998 MT_{22}	16.7	X	228.47379	219.85149	118.92854	7.95886	0.2525784	0.24431899	2.5341437	21	3 15.0	21.2
455160 1998 QV_{29}	16.8	X	21.21402	79.13435	310.87711	16.14700	0.2836537	0.17791300	3.1308644	21	—	—
455161 1998 RH_{4}	16.7	X	206.83988	355.72865	354.90550	13.10826	0.2738691	0.24040527	2.5615730	21	3 11.3	21.3
455162 1998 SE_{5}	16.4	X	103.25942	100.56064	248.81312	20.00965	0.3477422	0.18389904	3.0625492	21	—	—
455163 1998 SP_{31}	17.4	X	172.80367	207.29020	171.95774	3.96699	0.2219921	0.23962689	2.5671171	21	3 18.0	21.5
455164 1998 TN	16.1	X	79.98809	311.90351	41.58710	20.62202	0.3575419	0.18120505	3.0928286	21	—	—
455165 1999 AL_{10}	17.0	X	128.86701	92.40114	335.77731	27.27484	0.3949133	0.23363188	2.6108464	21	4 8.6	22.1
455166 1999 AF_{16}	16.4	X	327.28585	171.07220	116.98631	11.75666	0.1120360	0.23547415	2.5972110	21	5 18.2	19.6
455167 1999 BN_{29}	16.3	X	323.47357	81.48669	135.54168	25.15631	0.2465831	0.17719624	3.1393016	21	1 23.4	20.6
455168 1999 JF_{105}	16.6	X	321.46113	158.80310	64.29147	16.21526	0.2646597	0.21766839	2.7369854	21	1 19.7	20.6
455169 1999 KQ_{6}	16.9	X	27.66839	111.89223	132.07082	10.83211	0.4064939	0.22615040	2.6681146	21	8 17.3	18.8
455170 1999 ND_{5}	18.0	X	331.89664	234.72270	105.78536	6.67287	0.3614568	0.31250088	2.1506441	21	7 2.8	18.4
455171 1999 OM_{4}	7.1	X	78.42706	136.60968	113.74999	2.08590	0.1209836	0.00311961	46.3877040	21	9 6.2	23.7
455172 1999 QJ	17.4	X	267.44979	15.66701	344.06416	31.87157	0.4386194	0.26007303	2.4307437	21	4 4.7	22.5
455173 1999 TF_{137}	18.7	X	11.54281	353.42192	354.72107	3.05594	0.1986539	0.31649189	2.1325260	21	11 30.1	20.6
455174 1999 TD_{207}	17.2	X	58.67656	76.16905	336.26017	18.20587	0.4480332	0.19071238	2.9891666	21	1 26.9	19.6
455175 1999 UK_{11}	17.7	X	202.94721	32.54532	11.13577	10.52993	0.2622128	0.25535498	2.4605933	21	5 6.6	22.1
455176 1999 VF_{22}	20.7	X	177.10348	271.82416	3.40248	3.90853	0.7385675	0.65542631	1.3125629	21	—	—
455177 1999 VJ_{42}	17.1	X	92.11955	175.45936	231.22833	7.54321	0.1036998	0.19489926	2.9462024	21	1 15.1	21.1
455178 1999 VL_{231}	18.1	X	236.62604	274.41250	119.56184	2.35986	0.1817931	0.25589362	2.4571391	21	5 30.0	21.8
455179 2000 AQ_{221}	16.1	X	128.19493	307.45481	105.82800	10.78967	0.0244301	0.19229369	2.9727566	21	3 4.5	20.4
455180 2000 BE_{40}	17.9	X	40.06155	90.87739	307.13454	18.84296	0.0981166	0.36315239	1.9457040	21	—	—
455181 2000 DX_{90}	17.4	X	42.93095	238.39362	327.92756	3.64257	0.1366875	0.24250400	2.5467723	21	6 1.6	20.1
455182 2000 DE_{108}	16.5	X	24.28545	127.95083	17.37954	2.35982	0.2762843	0.18733745	3.0249601	21	2 9.3	18.9
455183 2000 DR_{115}	16.6	X	358.61243	190.68352	318.38846	4.96320	0.1452581	0.18501734	3.0501961	21	1 3.6	20.3
455184 2000 ED_{14}	20.8	X	252.02699	310.12073	3.87940	13.77920	0.5666666	1.29175029	0.8349946	21	—	—
455185 2000 EB_{107}	17.3	X	359.12645	43.54664	177.39391	25.21560	0.5826190	0.18608722	3.0384938	21	1 21.8	20.5
455186 2000 ES_{115}	17.9	X	297.74206	216.34037	348.87506	19.31451	0.0659423	0.36585192	1.9361210	21	—	—
455187 2000 GX_{59}	15.8	X	271.91912	203.65110	33.26488	12.17540	0.1985614	0.17639382	3.1488150	21	—	—
455188 2000 NQ_{8}	16.6	X	180.84331	228.04270	131.96849	14.47158	0.2045135	0.21675397	2.7446777	21	3 5.6	21.3
455189 2000 QM_{7}	17.0	X	259.64081	237.67159	170.03957	22.74115	0.3562696	0.27459289	2.3442820	21	6 22.2	21.4
455190 2000 QE_{25}	16.8	X	239.96579	237.98363	164.81281	11.44315	0.4469468	0.27056067	2.3675161	21	5 28.0	21.5
455191 2000 QL_{110}	17.8	X	271.11038	52.61063	311.36757	4.03849	0.2467645	0.27415612	2.3467712	21	5 16.5	21.2
455192 2000 QN_{130}	18.1	X	62.99625	306.13067	100.04194	2.68167	0.5759358	0.20126597	2.8837381	21	2 17.7	20.4
455193 2000 RJ_{60}	18.6	X	119.08974	67.79220	324.35192	35.31465	0.3244482	0.39750883	1.8319131	21	2 2.6	19.9
455194 2000 SZ_{48}	17.0	X	156.67584	75.18239	299.74542	6.67387	0.2639604	0.21179647	2.7873418	21	3 2.4	21.8
455195 2000 SR_{178}	17.3	X	268.75601	120.73906	217.59127	11.35151	0.4035090	0.22278117	2.6949480	21	3 31.1	22.2
455196 2000 TP_{19}	17.3	X	256.23706	310.00827	67.15264	5.97852	0.2384837	0.27216751	2.3581886	21	5 21.3	20.9
455197 2000 TV_{45}	17.2	X	116.10798	218.33072	154.12290	9.27604	0.3407793	0.20494373	2.8491346	21	2 3.2	21.6
455198 2000 UK_{83}	17.5	X	236.68504	345.86547	64.09601	6.52119	0.2563530	0.27101167	2.3648888	21	6 12.9	21.4
455199 2000 YK_{4}	19.8	X	167.43831	234.05978	281.55857	26.05781	0.3727389	0.45791583	1.6670384	21	8 21.9	23.3
455200 2001 BM_{12}	18.2	X	241.02967	166.60990	238.27143	1.72951	0.1751186	0.26585821	2.3953520	21	6 17.9	21.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
455201 2001 CW_{19}	18.1	X	115.56158	310.02214	137.42918	23.10364	0.0545014	0.39566319	1.8376055	21	3 1.9	19.6
455202 2001 DN_{36}	17.4	X	135.58877	28.30231	149.71553	5.33284	0.1623319	0.26315669	2.4117175	21	8 29.7	21.1
455203 2001 DA_{54}	18.1	X	148.35823	164.31939	357.94514	2.46484	0.1517672	0.26285075	2.4135885	21	8 21.6	21.8
455204 2001 FY_{6}	17.6	X	97.79467	78.23771	178.98993	7.30224	0.4152837	0.25976900	2.4326400	21	11 19.0	22.3
455205 2001 FV_{110}	18.1	X	33.93259	152.85013	1.38540	25.13237	0.0470132	0.38982016	1.8559226	21	2 6.1	20.3
455206 2001 FE_{193}	6.8	X	63.77295	338.12148	154.99600	2.81648	0.1208243	0.00310311	46.5519130	21	4 20.8	23.3
455207 2001 FU_{201}	16.6	X	38.21657	110.21949	1.52114	10.17231	0.0440119	0.19070948	2.9891969	21	1 21.9	20.7
455208 2001 FY_{211}	18.4	X	157.61143	32.39685	353.01490	3.89467	0.2762652	0.24504192	2.5291570	21	3 15.7	22.7
455209 2001 KT_{76}	7.1	X	63.24234	346.99828	184.53980	1.70811	0.0847691	0.00324343	45.1994062	21	5 25.3	23.5
455210 2001 MR_{17}	17.6	X	17.40319	174.91198	109.25451	7.93911	0.1418934	0.29735252	2.2230794	21	8 19.3	19.4
455211 2001 MS_{18}	17.8	X	303.75461	97.97399	238.93956	3.73931	0.3096906	0.29075901	2.2565619	21	5 8.8	20.3
455212 2001 OG_{62}	15.7	X	221.83507	318.45498	314.55322	13.59585	0.2646324	0.17476599	3.1683375	21	—	—
455213 2001 OE_{84}	17.9	X	259.81778	2.96918	32.19254	9.35685	0.4733223	0.28667874	2.2779231	21	5 24.8	22.3
455214 2001 PJ_{18}	16.9	X	324.72301	308.95665	359.07959	14.26184	0.1986279	0.24168112	2.5525498	21	5 19.4	19.9
455215 2001 PM_{35}	16.8	X	122.80110	104.45562	290.64531	28.14346	0.4424093	0.21916324	2.7245257	21	2 28.6	22.0
455216 2001 QB_{5}	16.6	X	224.95078	38.74886	324.01199	12.66304	0.1842520	0.23308388	2.6149370	21	4 4.1	21.2
455217 2001 QD_{154}	17.7	X	278.77108	253.25898	167.19176	7.67047	0.3831851	0.29213414	2.2494750	21	7 22.9	20.8
455218 2001 QL_{196}	17.5	X	338.67577	296.60547	58.49169	5.82767	0.2487846	0.29635435	2.2280683	21	9 26.3	18.3
455219 2001 QZ_{225}	16.9	X	179.26654	174.00930	218.74123	7.81920	0.2946706	0.22700329	2.6614273	21	4 10.3	21.7
455220 2001 QB_{281}	17.4	X	93.79848	66.29044	353.82739	24.55609	0.0625927	0.37073546	1.9190810	21	—	—
455221 2001 QJ_{331}	16.0	X	220.25570	183.85379	95.47479	11.95112	0.1862860	0.17480897	3.1678182	21	1 5.9	21.4
455222 2001 RY_{29}	18.6	X	298.56241	196.11266	175.86702	4.91275	0.2797424	0.29187043	2.2508297	21	6 27.9	20.9
455223 2001 RB_{30}	17.2	X	176.64888	25.50682	344.78360	16.10443	0.2786734	0.22508402	2.6765351	21	3 12.3	22.0
455224 2001 RW_{47}	17.6	X	268.61729	292.75105	104.08139	6.00999	0.4163958	0.28742691	2.2739685	21	6 9.1	21.3
455225 2001 RT_{62}	18.3	X	313.32880	349.28023	47.65321	4.01126	0.1639203	0.29633219	2.2281795	21	10 3.8	19.7
455226 2001 RR_{63}	18.0	X	125.62857	266.61569	107.38288	1.49923	0.3428842	0.21670735	2.7450713	21	2 13.4	22.4
455227 2001 RR_{67}	16.5	X	207.47485	53.53318	350.89285	12.04447	0.1638382	0.23157683	2.6262697	21	5 12.9	21.0
455228 2001 SZ_{13}	18.4	X	38.36792	189.34527	147.34765	1.25401	0.1965002	0.30230957	2.1987109	21	12 19.9	21.1
455229 2001 SL_{14}	16.5	X	244.02928	27.28193	359.29204	14.37739	0.1197635	0.23622043	2.5917379	21	5 30.7	20.6
455230 2001 SU_{14}	18.1	X	309.74198	15.98271	357.43746	5.56159	0.2371955	0.29311553	2.2444512	21	8 2.7	19.9
455231 2001 SX_{111}	17.4	X	28.13761	340.30348	358.20757	11.22752	0.3445524	0.29932686	2.2132931	21	12 31.7	20.6
455232 2001 SX_{125}	17.6	X	304.84576	207.33708	183.65499	5.14657	0.2051498	0.29445673	2.2376306	21	8 24.5	19.2
455233 2001 SB_{137}	18.4	X	289.79681	12.70839	333.96410	2.12093	0.2413434	0.28788405	2.2715606	21	5 14.9	21.4
455234 2001 SX_{138}	18.5	X	300.50242	85.49667	271.62120	1.00989	0.2535056	0.29015639	2.2596853	21	6 13.3	21.0
455235 2001 SA_{143}	18.1	X	305.52981	54.50730	314.48224	4.25489	0.1810425	0.29215198	2.2493834	21	7 26.0	19.8
455236 2001 SG_{149}	17.7	X	257.02095	14.69244	343.52878	6.83192	0.3008700	0.28431235	2.2905454	21	4 18.6	21.6
455237 2001 SX_{179}	16.7	X	215.02988	234.66596	156.93205	14.45696	0.2833502	0.23393576	2.6085849	21	5 8.2	21.6
455238 2001 SZ_{179}	15.4	X	213.35536	120.73022	149.18179	26.18144	0.1859666	0.17241157	3.1971164	21	—	—
455239 2001 SR_{203}	18.4	X	282.62649	262.08649	142.07927	2.41618	0.2141707	0.29225454	2.2488572	21	8 2.9	20.9
455240 2001 SJ_{208}	17.9	X	331.19371	352.87895	7.17116	8.72599	0.1768241	0.29479319	2.2359277	21	9 12.1	19.4
455241 2001 SY_{212}	17.4	X	158.88693	359.84031	18.96642	6.34174	0.2278137	0.22276270	2.6950970	21	3 9.6	21.8
455242 2001 SV_{223}	17.2	X	193.13248	8.81609	12.33926	12.40235	0.1838893	0.22743745	2.6580393	21	4 5.4	21.7
455243 2001 SD_{225}	15.5	X	29.46155	24.65158	16.63145	12.18927	0.1159396	0.15763726	3.3938824	21	—	—
455244 2001 SS_{228}	17.5	X	63.30254	41.72464	12.22437	20.80894	0.0885045	0.36273554	1.9471944	21	—	—
455245 2001 SJ_{236}	16.8	X	214.14107	69.03851	7.84019	14.71744	0.0379228	0.23830686	2.5765883	21	7 17.1	20.7
455246 2001 SO_{283}	17.7	X	116.76962	41.69085	4.67308	7.96957	0.3035920	0.21852199	2.7298531	21	3 12.2	21.8
455247 2001 SL_{323}	16.5	X	203.75130	11.82201	343.81102	14.73630	0.2970005	0.22662764	2.6643675	21	3 13.7	21.5
455248 2001 SV_{325}	17.0	X	266.65319	350.76891	329.20113	16.92077	0.2675473	0.23269124	2.6178777	21	3 14.2	21.6
455249 2001 SW_{348}	17.0	X	164.73007	263.55856	97.90930	9.42792	0.3497839	0.22133340	2.7066873	21	3 2.6	22.1
455250 2001 TC_{20}	16.4	X	120.75374	0.40560	12.59198	16.80671	0.2867336	0.21434309	2.7652202	21	2 8.5	20.8
455251 2001 TD_{26}	18.0	X	308.83444	150.40055	236.82298	6.70954	0.1815031	0.29283701	2.2458741	21	8 28.2	20.0
455252 2001 TV_{95}	17.3	X	171.67409	159.03798	225.56229	8.84852	0.3194241	0.22391155	2.6858704	21	3 26.3	22.4
455253 2001 TH_{103}	17.8	X	321.42957	179.18561	16.37441	19.92006	0.0343373	0.36855653	1.9266374	21	—	—
455254 2001 TT_{159}	16.3	X	171.83669	291.99180	72.30816	13.65992	0.2830518	0.22207795	2.7006342	21	3 10.9	21.3
455255 2001 TV_{160}	18.3	X	301.53083	134.11993	230.45997	1.21680	0.2179802	0.28910333	2.2651692	21	7 3.5	20.6
455256 2001 TK_{166}	17.1	X	150.73445	28.24434	349.11496	8.76269	0.3106657	0.21964882	2.7205087	21	3 5.9	21.9
455257 2001 TR_{183}	17.8	X	140.96722	154.71148	212.75397	2.84834	0.2068452	0.21770701	2.7366617	21	2 4.1	22.1
455258 2001 TF_{187}	17.7	X	265.85148	12.94158	34.49734	6.11622	0.1510927	0.28754960	2.2733216	21	7 27.0	20.5
455259 2001 UP_{115}	17.5	X	145.54521	339.96528	43.74506	10.77633	0.2673380	0.21916097	2.7245445	21	3 11.0	22.1
455260 2001 UQ_{156}	17.0	X	140.14075	316.19194	56.76298	13.62859	0.2296037	0.21672021	2.7449627	21	2 19.5	21.6
455261 2001 UO_{178}	17.9	X	330.40301	255.81963	111.21525	6.81400	0.1949663	0.29474762	2.2361581	21	9 24.2	19.3
455262 2001 UZ_{181}	17.7	X	165.87139	180.81129	195.90032	23.27701	0.1295656	0.37452456	1.9061154	21	2 4.3	20.5
455263 2001 UM_{221}	17.8	X	202.13481	69.08526	53.89395	20.06471	0.2919747	0.28427054	2.2907700	21	8 25.9	22.2
455264 2001 UK_{231}	17.7	X	133.62387	303.69603	65.60146	4.75220	0.1796324	0.21741985	2.7390708	21	1 29.1	21.7
455265 2001 VS_{4}	17.1	X	348.21063	73.96625	270.15542	5.51037	0.3091550	0.29382001	2.2408621	21	10 4.9	17.7
455266 2001 VZ_{24}	17.4	X	97.01172	22.75924	30.03121	2.57151	0.2843006	0.21413913	2.7669758	21	2 24.2	21.0
455267 2001 VM_{82}	18.2	X	341.25528	274.78130	76.65752	3.84356	0.1916926	0.29297861	2.2451504	21	9 23.5	19.5
455268 2001 VO_{83}	17.4	X	357.68199	95.34627	258.32251	8.34760	0.2098489	0.29581244	2.2307887	21	11 6.7	19.1
455269 2001 WB_{66}	16.8	X	224.74250	121.51015	219.34528	11.96436	0.2050073	0.22637493	2.6663500	21	3 10.9	21.5
455270 2001 WK_{96}	17.2	X	231.64052	293.24320	57.15023	9.92626	0.0820774	0.22504850	2.6768167	21	4 11.2	21.2
455271 2001 XS_{86}	15.8	X	81.96842	213.63729	283.74631	24.76413	0.2374785	0.21599503	2.7511032	21	5 14.3	19.9
455272 2001 XZ_{138}	16.6	X	110.83103	203.88126	247.33105	8.58489	0.1756483	0.21833168	2.7314392	21	4 10.9	20.6
455273 2001 XO_{140}	17.2	X	111.33144	350.36222	93.04804	8.84360	0.2182715	0.21752054	2.7382255	21	4 14.4	21.3
455274 2001 XH_{143}	16.6	X	175.87346	148.02560	250.94866	11.56365	0.1667416	0.22221336	2.6995369	21	4 8.7	21.1
455275 2001 XN_{150}	16.8	X	110.63087	34.05254	82.63371	12.15765	0.1885293	0.22045972	2.7138336	21	5 19.9	20.8
455276 2001 XW_{220}	17.8	X	309.38474	305.90080	64.31223	7.13009	0.1989367	0.28941432	2.2635462	21	8 4.2	19.8
455277 2001 XY_{232}	17.8	X	223.75745	358.11517	66.28196	6.56729	0.1654031	0.28196319	2.3032502	21	6 26.7	21.2
455278 2001 YY_{2}	17.5	X	125.88531	85.80384	271.48800	17.20206	0.1082516	0.35899214	1.9607073	21	—	—
455279 2001 YE_{12}	17.1	X	131.36231	338.97307	58.77587	10.08535	0.1804524	0.21805672	2.7337349	21	3 6.4	21.3
455280 2001 YX_{27}	17.2	X	156.80720	112.67394	270.38949	5.60348	0.2382436	0.21832585	2.7314879	21	3 9.4	21.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
455281 2001 YS_{59}	17.0	X	99.98089	145.53646	325.98499	7.87083	0.2548465	0.21643714	2.7473555	21	5 4.8	21.2
455282 2001 YW_{157}	18.0	X	211.38589	192.18367	294.19603	6.57784	0.0472228	0.28495805	2.2870839	21	9 14.3	20.9
455283 2002 AF_{5}	17.2	X	181.13400	352.08451	115.55469	27.17642	0.2476508	0.27755512	2.3275725	21	7 12.3	21.3
455284 2002 AG_{37}	17.2	X	250.07541	334.19177	107.50672	23.88391	0.1735307	0.28570235	2.2831100	21	8 23.3	20.5
455285 2002 AB_{56}	17.8	X	272.12373	119.58817	297.87931	6.87094	0.2315582	0.28558831	2.2837178	21	8 3.3	20.7
455286 2002 CL_{44}	17.9	X	283.70400	280.70213	326.81129	18.48482	0.0639623	0.35813168	1.9638466	21	1 5.7	20.5
455287 2002 CA_{45}	17.0	X	79.92229	338.81594	136.03203	9.92286	0.1101879	0.21207928	2.7848633	21	3 29.2	20.6
455288 2002 CG_{115}	17.9	X	128.95500	89.85525	127.73506	6.73084	0.1010586	0.28193436	2.3034072	21	10 15.2	21.2
455289 2002 CF_{118}	16.9	X	202.62003	13.00359	161.78956	24.44959	0.1467697	0.28465237	2.2887209	21	11 6.8	20.7
455290 2002 CG_{118}	17.0	X	82.14750	355.88859	162.18916	11.65591	0.2606792	0.21512104	2.7585495	21	6 18.4	21.0
455291 2002 CL_{140}	17.4	X	209.27595	26.29102	151.91767	22.75928	0.2114702	0.28693704	2.2765558	21	11 12.7	21.3
455292 2002 CP_{199}	16.9	X	41.47602	225.38980	340.26494	4.62832	0.2056942	0.21502244	2.7593928	21	6 9.3	19.8
455293 2002 CU_{224}	16.7	X	30.95656	235.28767	333.91733	10.43913	0.2810043	0.21121512	2.7924541	21	5 31.6	19.3
455294 2002 CM_{262}	17.5	X	157.82387	244.08967	310.82689	5.93834	0.0555973	0.28375619	2.2935374	21	10 10.9	20.7
455295 2002 CM_{266}	18.6	X	214.16916	324.24581	127.16358	2.82120	0.1694083	0.27888795	2.3201508	21	7 22.9	22.2
455296 2002 CE_{311}	17.9	X	184.92472	122.68671	47.92715	1.58091	0.1688034	0.28189447	2.3036244	21	10 7.3	21.3
455297 2002 DK	17.9	X	129.07865	78.27898	143.63796	2.27910	0.1558700	0.28142993	2.3061587	21	10 20.9	21.4
455298 2002 EM_{4}	17.2	X	93.92784	139.97778	351.22547	7.85851	0.1729598	0.21390247	2.7690164	21	5 12.1	21.1
455299 2002 EL_{6}	18.0	X	167.56685	186.55658	84.94580	9.51460	0.5770381	0.28223717	2.3017593	21	—	—
455300 2002 EV_{10}	17.8	X	118.25046	254.62919	347.49498	9.23338	0.2043720	0.27981781	2.3150079	21	11 2.7	21.6
455301 2002 EO_{44}	18.1	X	128.69958	239.73481	335.41508	2.14730	0.1493382	0.27829417	2.3234499	21	10 9.5	21.6
455302 2002 EA_{48}	18.6	X	135.21568	239.37165	312.56704	1.29649	0.1593432	0.27618380	2.3352708	21	9 16.4	22.1
455303 2002 EW_{52}	17.7	X	142.10044	45.61362	154.69057	6.36567	0.1846379	0.27858776	2.3218172	21	10 6.9	21.4
455304 2002 EX_{66}	18.3	X	142.92395	18.70301	187.72368	5.47861	0.2411110	0.27833078	2.3232461	21	10 14.8	22.1
455305 2002 EP_{105}	16.9	X	62.03160	161.94764	44.04629	9.95764	0.2852436	0.21495837	2.7599411	21	8 2.1	20.6
455306 2002 EZ_{118}	17.0	X	82.94324	168.87835	328.36137	8.26396	0.2216257	0.21325888	2.7745846	21	5 12.9	20.8
455307 2002 EA_{131}	17.9	X	132.54422	52.23397	164.53492	7.87063	0.2020354	0.27823158	2.3237983	21	10 19.9	21.7
455308 2002 FF	17.6	X	127.65941	177.45793	39.94542	8.51784	0.3614747	0.27583246	2.3372534	21	10 20.3	22.0
455309 2002 FF_{28}	18.3	X	142.69020	29.85115	178.41625	6.09716	0.1249708	0.27867146	2.3213523	21	10 15.7	21.6
455310 2002 GL_{3}	17.6	X	138.96195	229.78435	17.47667	12.88380	0.2022306	0.28033028	2.3121857	21	11 26.7	21.6
455311 2002 GO_{4}	18.6	X	160.59347	236.51340	320.67864	1.74512	0.3630755	0.27918538	2.3185027	21	10 14.5	22.9
455312 2002 GK_{35}	18.0	X	114.38535	37.62891	202.11356	2.54800	0.1994185	0.27742989	2.3282729	21	10 30.7	21.7
455313 2002 GW_{107}	17.9	X	179.57308	124.56188	55.82000	7.41337	0.2387711	0.28052072	2.3111391	21	10 13.7	21.7
455314 2002 GD_{123}	18.0	X	175.29922	62.46247	137.18836	1.98648	0.1891860	0.28164729	2.3049721	21	11 3.5	21.5
455315 2002 GE_{127}	16.6	X	59.68963	143.74014	43.09240	10.21003	0.1465342	0.21101675	2.7942039	21	6 4.7	20.1
455316 2002 GS_{152}	16.9	X	307.33356	111.91133	133.72771	7.96385	0.2790930	0.20070469	2.8891119	21	1 30.2	21.1
455317 2002 HA_{13}	17.0	X	156.79065	68.69803	148.04040	23.05047	0.2388622	0.27994797	2.3142903	21	11 13.2	21.5
455318 2002 HD_{14}	17.9	X	141.80889	177.75105	48.44213	11.91045	0.1977766	0.27779950	2.3262073	21	11 6.7	21.6
455319 2002 KM_{8}	17.4	X	88.08217	139.77445	98.06211	10.66998	0.2956709	0.27048261	2.3679715	21	10 17.2	21.4
455320 2002 LQ_{24}	15.9	X	169.07133	28.78790	238.24399	30.91833	0.2691534	0.18040055	3.1020168	21	12 26.3	21.7
455321 2002 NA_{1}	16.3	X	55.27351	205.90977	186.11371	16.94473	0.1868685	0.17263151	3.1944003	21	—	—
455322 2002 NX_{18}	17.3	X	156.64775	223.21744	163.92501	2.98680	0.5945195	0.23482615	2.6019867	21	4 2.8	22.9
455323 2002 NS_{46}	15.6	X	102.55501	39.94274	295.84031	26.13314	0.1541076	0.17360666	3.1824271	21	—	—
455324 2002 NL_{55}	15.8	X	207.03516	169.29557	137.21452	21.76548	0.1860158	0.18532257	3.0468461	21	1 24.3	21.1
455325 2002 OH_{25}	16.1	X	160.23736	27.57390	321.53335	14.32299	0.0776423	0.18304429	3.0720758	21	1 28.1	20.6
455326 2002 OU_{26}	15.8	X	108.01500	239.33576	163.69071	27.14557	0.2427446	0.18184280	3.0855930	21	2 22.5	20.4
455327 2002 OP_{28}	17.9	X	184.80174	104.45320	302.23262	20.30923	0.1497243	0.40167238	1.8192319	21	4 2.1	20.8
455328 2002 OV_{32}	16.4	X	238.82702	122.09912	190.64830	11.64494	0.2243775	0.18985676	2.9981407	21	2 21.5	21.7
455329 2002 PO_{63}	15.8	X	70.68329	250.47135	115.95594	27.07589	0.2614277	0.17083054	3.2168122	21	—	—
455330 2002 PX_{79}	15.9	X	108.97576	72.58446	293.93336	24.89875	0.2399400	0.17535216	3.1612727	21	1 13.2	20.4
455331 2002 PP_{110}	17.6	X	223.98987	230.26925	109.44448	5.03207	0.3160977	0.24244454	2.5471886	21	3 10.8	22.3
455332 2002 PX_{167}	18.4	X	81.79689	322.71339	351.90771	1.07873	0.1264951	0.32382686	2.1002007	21	—	—
455333 2002 QZ_{65}	15.8	X	92.92988	47.48230	328.98053	15.66268	0.2246440	0.17468752	3.1692862	21	1 6.0	20.1
455334 2002 QE_{86}	17.9	X	168.25768	183.70152	188.26204	2.54548	0.2113484	0.23755564	2.5820173	21	3 4.4	22.2
455335 2002 QR_{116}	18.6	X	166.96499	268.20893	46.54738	2.00360	0.2088826	0.28378809	2.2933655	21	—	—
455336 2002 QW_{119}	17.8	X	175.04802	318.38291	60.74975	5.50262	0.2421249	0.23879263	2.5730928	21	3 23.1	22.2
455337 2002 QW_{122}	16.0	X	228.13809	351.08204	298.13200	13.61211	0.0900512	0.18384691	3.0631281	21	1 24.2	20.8
455338 2002 QB_{136}	15.8	X	74.26491	91.88877	318.04076	24.50717	0.2305628	0.17525844	3.1623997	21	1 21.9	19.7
455339 2002 RF_{4}	17.3	X	353.78960	3.05235	286.60682	10.75270	0.2425639	0.25638877	2.4539745	21	6 28.4	18.6
455340 2002 RO_{6}	15.6	X	174.66817	0.42774	329.47090	9.37646	0.0986486	0.18107851	3.0942693	21	1 22.3	20.4
455341 2002 RZ_{16}	17.2	X	152.44958	25.78823	351.00974	3.76853	0.2802952	0.23401888	2.6079671	21	3 3.1	21.6
455342 2002 RG_{19}	16.7	X	357.21002	315.04992	1.82209	16.28796	0.2392020	0.25814300	2.4428445	21	9 4.8	18.4
455343 2002 RQ_{38}	17.4	X	229.41682	116.85170	217.42616	2.63044	0.2721039	0.24211672	2.5494874	21	3 6.2	22.1
455344 2002 RK_{53}	17.2	X	183.27251	197.17629	155.43930	15.79259	0.2691037	0.23651307	2.5895996	21	2 24.7	21.9
455345 2002 RS_{59}	17.1	X	220.90788	306.30081	38.51488	4.98285	0.3135764	0.24063981	2.5599082	21	3 14.8	21.9
455346 2002 RO_{78}	17.7	X	159.86024	50.06587	331.35857	4.60836	0.3117122	0.23535529	2.5980853	21	3 14.7	22.4
455347 2002 RJ_{97}	15.7	X	160.93625	352.20343	329.38736	15.44003	0.2510101	0.17746202	3.1361665	21	1 12.7	21.1
455348 2002 RR_{103}	15.6	X	86.06866	21.06533	13.70160	28.77909	0.1916112	0.17261954	3.1945580	21	1 21.8	20.4
455349 2002 RH_{112}	17.7	X	188.26833	335.98100	38.68446	6.02930	0.2786589	0.23867977	2.5739038	21	3 27.9	22.3
455350 2002 RL_{115}	18.0	X	157.04350	165.34615	222.25207	4.50619	0.3689265	0.23545180	2.5973753	21	3 22.8	22.8
455351 2002 RP_{132}	16.1	X	90.36817	126.42608	260.71701	9.64825	0.2772366	0.17368760	3.1814384	21	1 18.6	20.3
455352 2002 RV_{173}	18.2	X	41.61544	130.31565	216.62453	3.00141	0.1673923	0.32041117	2.1151002	21	—	—
455353 2002 RO_{237}	15.6	X	201.50413	265.07807	358.06571	17.23033	0.0756591	0.17572287	3.1568251	21	—	—
455354 2002 RC_{247}	16.3	X	208.00665	357.43569	337.40721	11.04411	0.0819975	0.18740611	3.0242212	21	2 26.8	20.8
455355 2002 RP_{252}	15.8	X	79.98504	36.20542	327.35210	14.30516	0.1392982	0.16880266	3.2425239	21	—	—
455356 2002 RA_{253}	16.6	X	143.22137	165.98689	183.95851	12.99580	0.1106910	0.17782856	3.1318554	21	1 12.1	21.5
455357 2002 RK_{264}	16.6	X	255.04814	87.08199	190.66508	15.14334	0.1999191	0.18596090	3.0398696	21	1 26.8	21.8
455358 2002 SW_{46}	17.0	X	185.34494	335.51644	43.83991	7.76346	0.3544151	0.23713863	2.5850434	21	4 2.6	21.9
455359 2002 TS_{70}	17.0	X	159.36588	96.02008	273.13008	10.35530	0.1993134	0.23411942	2.6072204	21	2 16.9	21.3
455360 2002 TV_{100}	17.6	X	187.96269	10.73680	352.33170	5.35323	0.2547475	0.23716032	2.5848858	21	3 11.8	22.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
455361 2002 TT_{104}	16.9	X	215.92434	149.08588	245.87232	4.37221	0.2581408	0.19178878	2.9779718	21	5 11.1	22.1
455362 2002 TP_{107}	17.7	X	342.02796	349.50117	34.79749	7.73153	0.0866243	0.31191118	2.1533539	21	11 13.3	19.5
455363 2002 TM_{117}	17.1	X	172.12427	27.73413	349.15136	13.82876	0.2787413	0.23551616	2.5969021	21	3 16.3	21.8
455364 2002 TU_{158}	16.9	X	214.25718	280.51089	75.87607	13.49247	0.2413966	0.23973839	2.5663211	21	3 30.2	21.6
455365 2002 TT_{161}	15.8	X	123.53911	256.89111	88.99746	14.34899	0.2877783	0.17205819	3.2014925	21	1 10.4	20.8
455366 2002 TJ_{170}	15.6	X	170.50268	74.77895	266.20674	10.81227	0.0662049	0.17861928	3.1226058	21	1 24.9	20.4
455367 2002 TF_{171}	17.8	X	2.64737	39.37815	280.34071	7.49194	0.2093601	0.31036806	2.1604855	21	9 19.6	19.3
455368 2002 TO_{177}	17.2	X	182.36638	72.90704	291.10016	11.47795	0.2990447	0.23570170	2.5955391	21	3 4.9	22.1
455369 2002 TG_{202}	17.1	X	149.93199	203.92562	267.22819	4.95593	0.2046260	0.24107904	2.5567980	21	6 19.4	21.2
455370 2002 TF_{205}	17.8	X	174.61898	248.97317	141.43951	5.82642	0.3246402	0.23761981	2.5815524	21	4 7.8	22.5
455371 2002 TC_{225}	17.7	X	197.87708	80.13263	280.72756	0.50077	0.2992187	0.23766486	2.5812262	21	3 16.6	22.5
455372 2002 TM_{281}	16.8	X	192.04697	18.47521	9.34936	13.76391	0.2910452	0.23871209	2.5736715	21	4 11.4	21.5
455373 2002 TX_{303}	17.6	X	145.12104	294.66002	79.34349	5.83557	0.0639129	0.23127298	2.6285694	21	1 31.1	21.2
455374 2002 TT_{318}	17.7	X	166.98641	58.47213	354.47474	12.54369	0.2456385	0.23965736	2.5668995	21	4 19.6	22.2
455375 2002 TQ_{342}	16.1	X	282.40692	179.72478	39.49603	18.33750	0.0822853	0.17635356	3.1492942	21	1 1.0	21.0
455376 2002 UE_{17}	17.3	X	172.78615	327.22290	63.31505	8.78442	0.3716994	0.23654441	2.5893708	21	4 9.6	22.3
455377 2002 UV_{37}	17.3	X	192.11519	136.71294	231.67971	4.35406	0.2781650	0.23681950	2.5873652	21	3 19.9	22.0
455378 2002 UV_{41}	16.5	X	165.96244	310.94722	66.60785	32.63878	0.2836277	0.23316442	2.6143348	21	4 4.1	21.8
455379 2002 UO_{43}	18.0	X	170.31621	210.76884	215.50962	3.56342	0.0922066	0.23930971	2.5693849	21	5 7.2	21.6
455380 2002 UL_{58}	16.4	X	198.60599	140.09761	143.26556	9.40208	0.0519112	0.17227378	3.1988209	21	—	—
455381 2002 UT_{59}	17.1	X	148.33261	38.45068	71.64902	13.15376	0.1313957	0.24206388	2.5498583	21	6 11.4	21.0
455382 2002 VB_{15}	17.6	X	117.64768	126.80263	251.19787	19.49650	0.0917284	0.38293378	1.8781067	21	—	—
455383 2002 VW_{24}	16.2	X	101.44884	325.73060	43.99237	15.80948	0.2632835	0.17153696	3.2079745	21	1 14.2	20.9
455384 2002 VY_{45}	17.4	X	178.35756	252.11851	131.48731	2.14782	0.3265128	0.23611558	2.5925051	21	4 1.2	22.2
455385 2002 VB_{85}	17.4	X	174.88386	287.76945	79.22730	5.41031	0.3231029	0.23416722	2.6068656	21	3 12.5	22.2
455386 2002 VY_{123}	16.9	X	200.03420	303.98483	52.71744	4.81674	0.3160463	0.23662132	2.5888097	21	3 15.8	21.8
455387 2002 VO_{142}	18.4	X	348.60764	298.46861	72.04403	5.58702	0.2075508	0.31175861	2.1540564	21	11 21.2	19.7
455388 2002 VK_{144}	17.9	X	149.80875	211.89635	211.64847	8.82738	0.2196309	0.23503440	2.6004495	21	4 21.5	22.1
455389 2002 VG_{147}	16.8	X	152.96746	164.01992	268.40241	8.81302	0.1779109	0.23694655	2.5864403	21	4 30.2	21.0
455390 2002 WK	16.6	X	150.99984	110.01261	279.46121	27.53336	0.4354903	0.23306632	2.6150683	21	3 10.9	22.1
455391 2002 WE_{5}	17.7	X	140.62554	108.90783	248.12451	20.81357	0.0854303	0.38275570	1.8786892	21	—	—
455392 2002 XO_{20}	17.4	X	185.63585	319.82526	56.65658	14.75605	0.2790178	0.23560646	2.5962385	21	4 2.4	22.2
455393 2002 XU_{28}	16.4	X	272.94003	118.45858	252.90409	10.99869	0.1745329	0.24556840	2.5255409	21	6 9.6	19.8
455394 2002 YP_{15}	16.4	X	171.83221	92.16022	321.38850	27.21791	0.3643110	0.23279358	2.6171104	21	4 17.9	21.9
455395 2003 AC_{17}	17.5	X	196.82805	56.89239	288.80521	19.26972	0.0667660	0.38648789	1.8665751	21	1 22.7	19.5
455396 2003 AB_{20}	17.9	X	134.76154	228.46058	213.39158	7.28952	0.3667340	0.23230433	2.6207837	21	5 12.9	22.6
455397 2003 AR_{54}	16.5	X	127.81070	342.64080	113.38703	28.89065	0.0773989	0.22924741	2.6440303	21	5 10.0	20.9
455398 2003 AW_{72}	15.0	X	119.39930	64.86560	69.17636	29.38872	0.3799577	0.22900092	2.6459272	21	7 2.2	20.0
455399 2003 BS_{12}	17.1	X	107.77280	215.50998	275.87329	12.21180	0.1823066	0.23057527	2.6338694	21	6 1.1	21.0
455400 2003 BK_{21}	17.8	X	276.66131	140.83823	127.07217	23.12741	0.0426355	0.38223292	1.8804018	21	1 18.0	19.6
455401 2003 BE_{46}	17.7	X	296.14078	267.94047	294.02972	16.71164	0.0607467	0.37570794	1.9021107	21	—	—
455402 2003 BS_{52}	15.9	X	168.12422	135.45253	319.25750	21.76450	0.0310868	0.23406527	2.6076225	21	6 8.6	20.0
455403 2003 BY_{57}	16.9	X	63.19310	166.67400	313.97808	13.01854	0.1945041	0.22238839	2.6981203	21	3 10.8	19.9
455404 2003 BO_{75}	17.7	X	207.46292	159.86535	112.57997	24.48243	0.0513821	0.37148021	1.9165152	21	—	—
455405 2003 BE_{90}	16.4	X	121.37557	10.58539	147.20455	35.49736	0.1952359	0.23307020	2.6150393	21	7 23.1	20.9
455406 2003 CL_{17}	16.8	X	104.42207	159.98144	319.85670	13.85106	0.2154345	0.22802367	2.6534817	21	5 13.2	20.9
455407 2003 ER	19.8	X	262.49105	68.57690	156.02099	36.10463	0.2358793	0.52974807	1.5127127	21	—	—
455408 2003 EB_{1}	17.5	X	89.95227	280.69028	165.58937	23.54821	0.0466385	0.37845583	1.8928923	21	1 12.4	19.7
455409 2003 EL_{47}	17.4	X	254.89418	264.57104	304.77911	17.95097	0.0838340	0.36691772	1.9323699	21	—	—
455410 2003 FG_{4}	17.4	X	63.56454	71.57902	144.04410	5.07510	0.3359261	0.22613721	2.6682183	21	8 21.9	21.0
455411 2003 FM_{4}	17.4	X	223.25862	253.76188	40.97557	21.59371	0.0754002	0.37236924	1.9134635	21	—	—
455412 2003 FX_{11}	17.1	X	20.63409	183.39644	357.61586	4.52044	0.0701429	0.21803348	2.7339291	21	3 18.1	20.2
455413 2003 FQ_{40}	16.5	X	69.87854	177.84415	4.12494	13.21436	0.1907079	0.22739583	2.6583636	21	6 21.9	20.1
455414 2003 FL_{90}	16.6	X	96.03821	331.64763	222.89759	11.07862	0.1257190	0.23043937	2.6349048	21	7 30.2	20.5
455415 2003 GA	21.2	X	165.22222	66.82049	192.89215	3.84249	0.1912570	0.67942248	1.2814729	21	—	—
455416 2003 GN_{11}	18.5	X	207.04750	156.88551	1.26219	2.15190	0.1405789	0.29928412	2.2135038	21	10 17.0	21.4
455417 2003 GN_{39}	13.2	X	122.88868	88.86162	178.15206	23.62741	0.0523538	0.08356975	5.1812751	21	11 9.9	20.4
455418 2003 GC_{53}	18.0	X	225.68774	296.29624	26.23980	21.78563	0.0669907	0.37722697	1.8970010	21	2 13.6	20.8
455419 2003 GS_{56}	17.5	X	275.74168	186.90305	87.79991	8.46273	0.1988938	0.26336441	2.4104493	21	2 5.0	21.2
455420 2003 HR_{15}	17.5	X	282.61196	157.79293	88.35057	23.31796	0.1257063	0.37161956	1.9160360	21	—	—
455421 2003 HL_{23}	16.9	X	355.12900	190.28058	19.74015	14.72353	0.0882826	0.21758819	2.7376578	21	3 20.6	20.2
455422 2003 HG_{47}	16.7	X	37.55197	144.14470	71.15172	14.06898	0.3558319	0.22120946	2.7076982	21	7 14.6	19.2
455423 2003 JQ_{6}	17.3	X	87.17251	316.19182	220.04533	23.49621	0.2337053	0.27895199	2.3197957	21	7 8.2	21.0
455424 2003 KA_{10}	16.6	X	331.58694	128.21456	110.73129	19.02891	0.2717291	0.21268174	2.7796017	21	2 24.6	20.2
455425 2003 KX_{35}	16.7	X	73.90577	358.07487	218.55697	16.20874	0.1196747	0.22755050	2.6571589	21	7 28.7	20.6
455426 2003 MT_{9}	18.6	X	153.29805	200.73288	233.33705	6.82805	0.9220952	0.24455485	2.5325140	21	6 1.1	25.0
455427 2003 OP_{26}	17.6	X	39.97902	6.97295	295.54040	5.77068	0.1312863	0.27973216	2.3154805	21	10 17.7	20.3
455428 2003 QW_{10}	18.5	X	222.42942	26.68704	351.01738	10.82943	0.2350234	0.42455322	1.7532666	21	4 8.2	21.0
455429 2003 QG_{31}	17.3	X	216.10075	114.51406	298.40766	10.22524	0.2595947	0.26235130	2.4166508	21	5 29.9	21.6
455430 2003 QW_{35}	17.9	X	270.57537	8.78822	335.21968	4.76751	0.2987708	0.26320820	2.4114029	21	4 14.4	21.9
455431 2003 QW_{98}	16.8	X	105.10685	48.59493	339.85599	9.34610	0.1170599	0.18826854	3.0149785	21	1 16.9	21.0
455432 2003 RP_{8}	18.2	X	296.89521	22.35948	301.41794	31.22984	0.3661691	0.43183590	1.7334988	21	3 2.3	21.6
455433 2003 RX_{10}	16.0	X	123.29678	35.80199	316.42652	16.90140	0.2162076	0.18486325	3.0518909	21	1 9.5	20.6
455434 2003 RG_{21}	17.5	X	245.70775	226.15073	144.12269	1.60795	0.2023081	0.26126497	2.4233451	21	5 6.4	21.1
455435 2003 SU_{14}	17.6	X	329.60461	332.59858	6.69659	2.55547	0.2351827	0.27082024	2.3660031	21	7 20.6	19.1
455436 2003 SC_{19}	17.3	X	117.16079	87.00546	258.94578	1.41018	0.1199792	0.18333812	3.0687925	21	—	—
455437 2003 SJ_{22}	16.3	X	76.49871	177.11893	201.01147	15.86401	0.1789514	0.17831679	3.1261361	21	—	—
455438 2003 SZ_{43}	16.1	X	141.32563	42.94237	327.83960	18.34366	0.1343710	0.18992205	2.9974535	21	2 7.7	20.6
455439 2003 SA_{65}	16.0	X	93.21928	0.87937	5.69076	13.84221	0.1595537	0.18024476	3.1038040	21	—	—
455440 2003 SX_{107}	16.1	X	134.00491	14.49599	344.69140	14.92916	0.2446820	0.18517811	3.0484305	21	2 1.4	21.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
455441 2003 SX_{119}	18.0	X	232.32717	190.88916	184.78337	2.19640	0.2300932	0.25937053	2.4351308	21	4 29.3	21.9
455442 2003 SY_{136}	18.4	X	223.73831	89.50710	313.91442	4.97525	0.2370754	0.26137710	2.4226519	21	5 25.2	22.6
455443 2003 SZ_{160}	17.9	X	270.73841	206.35663	137.95843	1.72620	0.2188274	0.26218495	2.4176729	21	4 26.0	21.3
455444 2003 SX_{170}	18.0	X	255.22443	144.13083	215.06482	2.13447	0.1862132	0.26074232	2.4265823	21	5 2.3	21.6
455445 2003 SG_{181}	17.6	X	215.69777	57.35311	330.25971	1.47847	0.2521843	0.25713546	2.4492215	21	4 28.9	21.8
455446 2003 SA_{193}	17.1	X	24.22191	4.47642	310.44094	6.66519	0.1844244	0.27466668	2.3438622	21	10 17.9	19.6
455447 2003 SR_{195}	16.4	X	186.85895	26.42349	314.93101	8.19571	0.1049980	0.19083320	2.9879048	21	2 13.0	21.1
455448 2003 SG_{231}	17.5	X	219.77075	319.59465	66.99481	3.49623	0.1944014	0.25867160	2.4395153	21	5 4.0	21.5
455449 2003 SD_{240}	17.4	X	240.54080	60.63681	306.11513	1.90173	0.1934018	0.25796900	2.4439428	21	4 26.3	21.1
455450 2003 SH_{245}	18.0	X	277.67639	341.81841	9.22709	3.33247	0.2165515	0.26358213	2.4091217	21	5 11.1	21.4
455451 2003 SX_{261}	16.7	X	93.10077	56.53389	245.70798	5.16508	0.1862344	0.28280929	2.2986540	21	12 27.4	20.3
455452 2003 SE_{307}	16.0	X	74.96986	81.23903	317.49980	17.86062	0.3793297	0.18026385	3.1035848	21	1 28.8	19.4
455453 2003 SZ_{322}	16.7	X	46.40198	81.14072	331.68775	7.72635	0.1179057	0.18092261	3.0960466	21	—	—
455454 2003 ST_{334}	16.6	X	52.36041	13.83541	10.65016	8.55030	0.1681684	0.17649475	3.1476144	21	—	—
455455 2003 SY_{355}	18.2	X	199.51135	259.92141	189.95656	4.72539	0.0698285	0.26517972	2.3994361	21	7 9.7	21.6
455456 2003 SV_{365}	18.0	X	204.21273	168.71676	267.63737	1.89040	0.1403271	0.26341735	2.4101263	21	6 24.3	21.7
455457 2003 SE_{380}	18.3	X	175.66266	69.30007	49.63905	2.01280	0.1400560	0.26388483	2.4072790	21	7 22.4	22.0
455458 2003 SB_{400}	16.5	X	76.50298	267.66106	65.71714	17.37908	0.1369434	0.17175784	3.2052237	21	12 24.8	21.4
455459 2003 SP_{404}	17.2	X	11.83239	32.09488	61.88193	11.20285	0.1998726	0.17726246	3.1385197	21	—	—
455460 2003 SL_{423}	17.9	X	265.38520	88.50652	242.51749	1.43132	0.2324912	0.25791987	2.4442532	21	4 1.3	21.7
455461 2003 SB_{429}	16.7	X	60.35672	226.04520	171.39216	5.04580	0.2126635	0.17872513	3.1213728	21	—	—
455462 2003 SZ_{429}	16.7	X	79.41723	179.30623	198.48386	8.65847	0.0930203	0.17765205	3.1339296	21	—	—
455463 2003 TW_{46}	16.3	X	106.81991	358.10836	3.48874	10.85585	0.0929316	0.18073926	3.0981400	21	—	—
455464 2003 TN_{54}	17.7	X	242.96661	226.88832	172.23042	9.97199	0.1561714	0.26211506	2.4181027	21	6 14.9	21.5
455465 2003 UW_{6}	15.2	X	76.38486	147.77267	246.69244	16.20728	0.2030956	0.17804816	3.1292797	21	—	—
455466 2003 UD_{17}	16.1	X	110.21141	160.45056	220.78830	11.22783	0.1764650	0.18374154	3.0642991	21	1 18.6	20.6
455467 2003 UW_{21}	16.2	X	29.53623	106.80413	300.45482	14.74273	0.2514537	0.17479392	3.1680000	21	—	—
455468 2003 US_{51}	16.5	X	38.13627	160.34263	262.05666	17.09499	0.2861029	0.17718562	3.1394271	21	—	—
455469 2003 UV_{59}	16.5	X	65.80947	31.95750	327.75098	14.18141	0.2707750	0.17429080	3.1740936	21	—	—
455470 2003 UB_{97}	17.5	X	248.16510	329.88288	28.69780	3.09159	0.2360715	0.25820468	2.4424554	21	4 20.7	21.4
455471 2003 UZ_{118}	17.6	X	64.80260	83.30376	233.62643	1.41024	0.1866271	0.28102348	2.3083818	21	12 18.6	20.9
455472 2003 UP_{124}	17.1	X	214.73029	263.84607	117.36897	2.42096	0.1610225	0.25559951	2.4590236	21	4 24.4	21.0
455473 2003 UK_{126}	15.8	X	267.13551	296.02000	334.34998	9.61359	0.0512667	0.19007190	2.9958779	21	2 15.4	20.0
455474 2003 UG_{143}	17.4	X	207.98972	68.88048	10.02795	8.04960	0.2491222	0.25863733	2.4397308	21	6 27.2	21.7
455475 2003 UQ_{159}	17.5	X	148.00298	319.03137	57.43876	7.68015	0.1341759	0.24248626	2.5468965	21	2 15.1	21.3
455476 2003 UK_{178}	17.7	X	225.64023	30.93486	352.37722	2.19925	0.2074184	0.25757710	2.4464211	21	5 3.2	21.8
455477 2003 US_{191}	16.2	X	45.97964	21.64660	8.77501	11.87611	0.2242674	0.17344863	3.1843598	21	—	—
455478 2003 UW_{194}	16.5	X	87.75095	160.82139	221.27338	14.57651	0.2297217	0.18003402	3.1062256	21	—	—
455479 2003 UL_{210}	17.5	X	250.31628	271.99024	87.92329	2.69239	0.1854285	0.25793781	2.4441398	21	4 29.4	21.1
455480 2003 UL_{211}	16.2	X	87.31959	150.01027	231.58069	7.96533	0.1618588	0.17826955	3.1266884	21	—	—
455481 2003 UD_{229}	16.4	X	102.57853	134.46570	234.67519	13.80890	0.2631335	0.18000174	3.1065970	21	1 8.2	20.9
455482 2003 UB_{232}	16.6	X	109.08969	332.23195	32.93065	5.41895	0.1379304	0.18103591	3.0947546	21	—	—
455483 2003 UO_{266}	15.8	X	58.18590	21.09085	43.62943	17.56376	0.1827029	0.17932982	3.1143521	21	1 1.3	19.6
455484 2003 UA_{285}	16.3	X	113.00375	155.21113	202.25820	10.25438	0.1457587	0.18079127	3.0975458	21	—	—
455485 2003 UZ_{295}	16.3	X	105.25635	351.44489	17.34834	9.85315	0.0589704	0.18134599	3.0912260	21	—	—
455486 2003 UH_{300}	18.4	X	196.83312	346.95864	44.35927	3.84841	0.2222997	0.25370164	2.4712719	21	4 20.3	22.5
455487 2003 UQ_{303}	16.0	X	89.09831	177.74987	258.78039	9.25955	0.0941695	0.18686528	3.0300535	21	2 14.9	20.3
455488 2003 UQ_{324}	18.0	X	322.76872	44.07222	287.33902	4.55193	0.1890174	0.27093116	2.3653573	21	6 27.4	19.9
455489 2003 UE_{334}	18.1	X	217.63975	209.10581	209.33734	4.48576	0.0896293	0.26290450	2.4132596	21	6 17.7	21.5
455490 2003 US_{338}	17.0	X	58.32477	28.87861	35.88252	2.75467	0.1695868	0.18249698	3.0782148	21	—	—
455491 2003 UW_{338}	18.1	X	191.06522	65.44027	30.17850	2.90312	0.1748116	0.26058589	2.4275533	21	7 6.1	21.9
455492 2003 UC_{339}	17.0	X	69.57686	335.88634	62.80590	2.42391	0.1736478	0.18077552	3.0977258	21	—	—
455493 2003 UK_{351}	16.6	X	285.95527	71.67294	135.99084	5.22410	0.0507837	0.18501100	3.0502658	21	—	—
455494 2003 UJ_{358}	16.6	X	63.37711	189.76910	209.49984	7.52863	0.0482048	0.17818226	3.1277095	21	—	—
455495 2003 UT_{358}	16.4	X	55.01301	39.74387	37.38623	9.09959	0.0912905	0.18182572	3.0857862	21	1 4.6	20.4
455496 2003 UD_{366}	16.8	X	71.34601	12.60457	28.09599	4.07490	0.1632444	0.17795516	3.1303699	21	—	—
455497 2003 UJ_{373}	16.4	X	86.46712	235.19487	190.67137	24.41337	0.0930992	0.19049130	2.9914790	21	1 28.3	20.8
455498 2003 UD_{377}	18.0	X	208.70059	198.72859	203.14443	2.08507	0.1881218	0.25836274	2.4414591	21	5 13.5	22.0
455499 2003 UC_{382}	16.3	X	243.47300	230.75954	33.87682	14.32644	0.0323103	0.18783422	3.0196243	21	1 17.3	20.9
455500 2003 UD_{388}	17.9	X	193.95204	288.49118	104.83230	5.34075	0.1840501	0.25375277	2.4709399	21	4 22.1	22.0
455501 2003 UJ_{405}	17.0	X	190.56352	144.59802	182.48032	11.33476	0.0544161	0.18925211	3.0045232	21	1 27.8	21.6
455502 2003 UZ_{413}	4.3	X	115.17059	146.37361	135.83746	12.05258	0.2247308	0.00400064	39.2991659	21	11 23.4	20.8
455503 2003 VN_{4}	16.2	X	73.48614	180.98742	262.88555	9.86437	0.1854249	0.18296409	3.0729735	21	2 15.3	20.1
455504 2003 VR_{8}	16.2	X	53.36921	156.77918	220.86291	13.97404	0.1045038	0.17325541	3.1867269	21	—	—
455505 2003 WK_{11}	16.3	X	115.95925	102.34909	256.22476	9.73549	0.2060651	0.18075100	3.0980060	21	1 4.9	20.8
455506 2003 WG_{23}	17.1	X	295.94029	278.78290	102.62894	3.23521	0.2478094	0.21064044	2.7975308	21	7 13.6	20.7
455507 2003 WJ_{28}	18.0	X	238.71077	14.37947	0.84177	2.33061	0.2090330	0.25702734	2.4499084	21	5 4.6	22.0
455508 2003 WK_{29}	16.6	X	348.58425	63.79916	45.10871	23.65673	0.2220652	0.17183399	3.2042767	21	—	—
455509 2003 WP_{36}	17.6	X	178.87535	156.77120	268.71222	8.43244	0.2058025	0.25304196	2.4755651	21	5 16.4	21.7
455510 2003 WC_{40}	17.8	X	243.16835	135.40924	272.74556	3.78906	0.1696769	0.26115519	2.4240241	21	6 25.2	21.1
455511 2003 WW_{44}	17.8	X	249.48325	53.72458	341.20256	3.65067	0.2297289	0.26155849	2.4215318	21	6 7.6	21.5
455512 2003 WY_{83}	15.7	X	131.99998	329.54567	21.92706	10.48463	0.0551291	0.18035620	3.1025253	21	—	—
455513 2003 WP_{97}	18.3	X	157.76238	349.81250	69.67783	10.43808	0.3391985	0.24902492	2.5021164	21	5 1.6	22.9
455514 2003 WF_{98}	18.1	X	139.52467	89.81972	270.73263	24.20439	0.1026408	0.45830684	1.6660901	21	—	—
455515 2003 WL_{145}	15.5	X	36.49352	350.02965	65.45590	17.14366	0.0856557	0.17319542	3.1874628	21	—	—
455516 2003 WV_{146}	18.1	X	89.81849	347.14519	77.14399	24.37794	0.1135458	0.40677920	1.8039738	21	—	—
455517 2003 WF_{173}	17.6	X	210.86931	152.52949	217.30092	3.86208	0.2225225	0.25330522	2.4738496	21	4 4.0	21.9
455518 2003 WH_{178}	18.2	X	249.47182	334.73049	50.22017	2.40395	0.1940841	0.26130246	2.4231132	21	5 29.2	21.7
455519 2003 WO_{182}	16.8	X	126.92145	297.69299	54.68103	2.29565	0.1769340	0.18104942	3.0946007	21	1 6.9	21.2
455520 2003 XK_{17}	15.8	X	40.86190	13.65190	84.44455	18.79562	0.1857197	0.17745381	3.1362631	21	1 13.8	19.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
455521 2003 XU_{26}	16.3	X	118.19671	285.67281	81.21974	11.04455	0.1766579	0.18020164	3.1042991	21	1 15.2	20.9
455522 2003 XA_{28}	16.5	X	75.44743	336.01857	38.27090	5.05241	0.2232138	0.17449028	3.1716741	21	—	—
455523 2003 YY_{81}	18.1	X	184.63072	6.06807	90.41371	6.35497	0.2356254	0.25317958	2.4746679	21	6 30.6	22.3
455524 2003 YR_{109}	13.5	X	213.54928	291.00771	125.36911	21.30990	0.0876158	0.08120336	5.2814527	21	6 17.3	20.9
455525 2003 YN_{112}	15.1	X	334.95348	251.85568	286.98371	26.87535	0.2505703	0.17289415	3.1911644	21	—	—
455526 2003 YT_{135}	15.7	X	92.11143	93.51161	296.66410	25.46534	0.1806327	0.17518306	3.1633068	21	1 13.0	19.9
455527 2003 YP_{171}	16.5	X	93.49404	73.74879	44.76960	5.92859	0.1025079	0.24156100	2.5533960	21	4 15.0	19.7
455528 2003 YE_{172}	15.5	X	49.19226	342.81364	94.87751	29.27023	0.1732398	0.17345279	3.1843089	21	1 2.3	19.1
455529 2004 BV_{6}	17.7	X	156.61036	112.38761	33.65005	5.11553	0.2180621	0.25293560	2.4762591	21	8 11.2	21.9
455530 2004 BY_{26}	16.9	X	18.09650	87.80020	98.07793	28.99027	0.3345530	0.23172931	2.6251174	21	3 27.9	19.5
455531 2004 BA_{67}	16.5	X	164.97007	89.94735	297.37108	12.02109	0.1987546	0.24122422	2.5557720	21	3 13.3	20.9
455532 2004 BF_{79}	16.0	X	353.75302	189.69615	314.82591	8.99084	0.0748477	0.17041619	3.2220243	21	1 2.7	20.3
455533 2004 BW_{142}	17.8	X	139.69777	16.23194	90.31200	4.02525	0.0774945	0.24532317	2.5272236	21	5 24.1	21.4
455534 2004 BW_{146}	17.2	X	56.12439	61.05847	124.10172	13.52173	0.1174949	0.24132148	2.5550853	21	5 26.8	20.4
455535 2004 CY_{3}	17.2	X	83.42465	45.73305	134.67516	28.48138	0.2264789	0.24411709	2.5355407	21	7 15.1	20.9
455536 2004 CC_{19}	16.0	X	48.77251	134.06114	303.57912	12.00233	0.0956197	0.17106913	3.2138205	21	—	—
455537 2004 CF_{23}	15.8	X	45.64951	306.58061	125.39995	24.86286	0.0867461	0.16880757	3.2424611	21	—	—
455538 2004 CQ_{65}	16.2	X	336.80461	211.21614	333.65471	8.00217	0.2654038	0.17114324	3.2128926	21	1 2.3	20.3
455539 2004 CP_{104}	17.9	X	106.50349	110.55946	33.87029	5.05701	0.2174678	0.24367993	2.5385723	21	6 21.2	21.7
455540 2004 DC_{54}	17.3	X	26.54534	113.44938	145.86701	14.54555	0.0784948	0.24694448	2.5161499	21	7 15.3	20.3
455541 2004 EE_{16}	17.5	X	110.08641	180.35248	340.62137	7.02143	0.1930319	0.24444906	2.5332447	21	7 15.7	21.3
455542 2004 FQ_{43}	17.2	X	49.78649	51.28687	128.12446	3.85051	0.1416914	0.23580398	2.5947885	21	5 8.6	19.9
455543 2004 FT_{146}	17.0	X	42.43741	190.06535	31.63172	13.30172	0.2439745	0.23645613	2.5900153	21	7 15.5	19.9
455544 2004 GD_{18}	16.8	X	26.29241	204.19929	62.10660	14.07928	0.2519013	0.23962060	2.5671620	21	8 27.7	19.6
455545 2004 GU_{45}	17.4	X	27.89384	185.17241	40.22110	6.74036	0.0661449	0.23649465	2.5897341	21	5 27.5	20.4
455546 2004 GW_{61}	17.7	X	349.97517	240.04775	29.79082	3.82648	0.2037191	0.23507477	2.6001518	21	5 18.1	19.8
455547 2004 HR_{43}	18.2	X	170.51872	311.17548	322.50756	3.68880	0.2446518	0.32015588	2.1162245	21	—	—
455548 2004 HW_{58}	17.0	X	3.78777	178.88577	48.66060	8.51169	0.1704580	0.23036667	2.6354591	21	4 19.3	19.4
455549 2004 HQ_{60}	17.0	X	63.55838	133.09822	103.59528	10.46963	0.2691239	0.23987840	2.5653224	21	9 14.7	20.7
455550 2004 JO_{2}	17.2	X	292.30934	127.60766	222.41857	18.75939	0.5689234	0.28412614	2.2915460	21	4 12.4	21.5
455551 2004 JZ_{9}	17.1	X	41.05368	66.63774	125.90667	11.96331	0.0546274	0.23066780	2.6331650	21	5 7.6	20.6
455552 2004 KR_{14}	17.1	X	310.49789	140.63279	132.23760	10.84201	0.2639478	0.22511923	2.6762560	21	3 9.2	20.8
455553 2004 LD_{1}	16.6	X	312.02943	234.69286	74.62436	14.11824	0.2737953	0.22965606	2.6408928	21	4 28.9	20.0
455554 2004 MQ_{1}	18.0	X	179.06474	332.04974	56.96739	11.11999	0.7049347	0.26392833	2.4070145	21	4 16.6	23.7
455555 2004 NX_{19}	16.9	X	333.74466	173.53586	130.94218	15.06836	0.2363361	0.22865763	2.6485748	21	6 5.4	19.7
455556 2004 NW_{21}	17.4	X	267.53043	187.56112	132.47533	13.55216	0.2942525	0.27637171	2.3342122	21	3 18.2	21.4
455557 2004 NW_{22}	18.0	X	115.73141	88.83607	305.98824	18.40097	0.1719582	0.37744060	1.8962851	21	—	—
455558 2004 NV_{24}	16.5	X	322.63258	48.20943	306.83687	23.91250	0.2438066	0.28871575	2.2671960	21	7 29.4	17.8
455559 2004 OU_{11}	16.8	X	313.68857	163.26873	129.25365	14.09551	0.2719483	0.22272503	2.6954009	21	4 10.5	20.5
455560 2004 PG	18.0	X	330.86259	57.82445	153.03195	23.73978	0.0743489	0.38639510	1.8668739	21	1 4.3	20.4
455561 2004 PS_{49}	17.0	X	20.49123	157.44539	112.13560	6.49361	0.2337977	0.23098163	2.6307793	21	8 7.9	19.2
455562 2004 PM_{70}	18.1	X	301.94713	184.67878	186.11343	4.09096	0.2552911	0.28652726	2.2787259	21	7 6.4	20.3
455563 2004 PA_{96}	17.4	X	288.79388	238.14274	151.23918	21.60292	0.1674408	0.28738537	2.2741876	21	7 28.8	20.1
455564 2004 QK_{22}	16.5	X	250.24626	56.46875	296.19568	23.44661	0.2224920	0.27358881	2.3500143	21	4 1.1	20.9
455565 2004 QF_{25}	16.7	X	10.26160	43.86787	236.90808	11.51524	0.2711453	0.22878851	2.6475647	21	7 28.8	18.9
455566 2004 RM_{1}	17.5	X	308.27582	216.74543	143.88076	11.49074	0.1941400	0.28542902	2.2845673	21	7 13.9	19.8
455567 2004 RA_{30}	17.3	X	267.50091	58.80560	340.25540	23.09241	0.2234428	0.28451878	2.2894373	21	7 10.8	20.9
455568 2004 RN_{31}	17.9	X	316.61246	331.05765	19.66542	2.39921	0.1685359	0.28690466	2.2767271	21	7 20.9	19.8
455569 2004 RL_{36}	17.7	X	318.69208	292.69898	51.76083	3.47407	0.1976931	0.28646847	2.2790376	21	7 9.3	19.5
455570 2004 RE_{39}	16.5	X	97.96339	32.56009	350.46595	11.22468	0.2045376	0.19587360	2.9364241	21	1 12.4	20.5
455571 2004 RF_{46}	18.3	X	268.46029	347.35572	356.70201	2.26359	0.2414334	0.27784357	2.3259613	21	4 18.4	21.7
455572 2004 RC_{54}	17.5	X	257.70113	317.30693	32.32118	4.95611	0.1670020	0.27625656	2.3348607	21	4 23.0	20.9
455573 2004 RA_{62}	18.4	X	283.10010	34.16149	338.78706	1.57139	0.2329911	0.28289227	2.2982044	21	6 14.9	21.4
455574 2004 RX_{74}	17.7	X	309.60965	332.24681	29.03828	4.04638	0.2553370	0.28531016	2.2852018	21	7 7.0	19.6
455575 2004 RG_{114}	16.2	X	236.21252	339.31274	345.75639	22.38231	0.2692184	0.21309352	2.7760198	21	3 4.5	21.2
455576 2004 RY_{153}	18.0	X	270.91418	76.47627	278.68363	4.68462	0.1981812	0.27904465	2.3192821	21	5 10.0	21.3
455577 2004 RF_{179}	17.6	X	85.26194	33.88528	279.18401	6.18101	0.1693480	0.30220107	2.1992371	21	—	—
455578 2004 RA_{216}	17.6	X	283.12127	72.15715	296.59185	9.10026	0.2828213	0.28153375	2.3055917	21	6 1.0	20.8
455579 2004 RF_{216}	16.5	X	140.23693	99.27492	284.29365	10.25991	0.2160112	0.20090273	2.8872130	21	2 22.3	21.3
455580 2004 RJ_{242}	17.9	X	111.68708	264.23125	354.40063	6.75021	0.0783417	0.29742818	2.2227023	21	11 14.4	20.9
455581 2004 RJ_{252}	17.5	X	106.44599	49.64447	298.33394	18.31834	0.0891318	0.36847240	1.9269306	21	—	—
455582 2004 RF_{298}	17.0	X	125.94797	214.73309	173.79573	11.02425	0.1298512	0.20049053	2.8911690	21	2 6.4	21.2
455583 2004 RH_{299}	18.1	X	22.90656	133.01680	172.83977	5.59506	0.2132286	0.29151659	2.2526507	21	10 15.6	20.0
455584 2004 RJ_{310}	18.0	X	319.74768	19.43841	331.98544	1.80357	0.2097736	0.28541537	2.2846402	21	7 21.5	19.7
455585 2004 RE_{314}	18.0	X	301.12201	19.17203	358.44998	2.84521	0.1989175	0.28573890	2.2829153	21	7 28.5	20.0
455586 2004 RG_{315}	18.2	X	97.62198	22.71434	8.52476	19.84770	0.0769483	0.37070268	1.9191941	21	—	—
455587 2004 RT_{321}	17.4	X	314.96994	15.54231	334.72034	6.73197	0.2259717	0.28477849	2.2880452	21	7 6.4	19.3
455588 2004 RU_{331}	20.5	X	334.13529	261.83015	201.58681	17.46471	0.2440554	0.71255633	1.2414329	21	—	—
455589 2004 RJ_{335}	18.1	X	242.99863	64.57776	315.72758	1.29524	0.2181253	0.27542081	2.3395817	21	5 13.7	21.8
455590 2004 RG_{342}	17.5	X	288.69021	147.30541	247.65375	6.80599	0.1735501	0.28732436	2.2745095	21	8 3.3	20.1
455591 2004 SV_{26}	18.5	X	216.08514	37.44295	32.44619	7.54510	0.4494612	0.27369477	2.3494077	21	6 13.4	23.3
455592 2004 SU_{36}	17.1	X	122.96924	169.64055	224.05060	5.17355	0.0751889	0.20256546	2.8713918	21	2 1.5	21.2
455593 2004 SD_{52}	16.2	X	56.64552	139.71008	232.78695	8.32206	0.1549458	0.18731420	3.0252104	21	—	—
455594 2004 SV_{55}	17.9	X	88.49954	280.85130	344.56282	41.17257	0.6582711	0.42250112	1.7589391	21	12 4.8	22.8
455595 2004 TJ_{26}	18.6	X	248.47618	116.91737	296.18514	0.67213	0.2485967	0.28016078	2.3131182	21	6 28.9	22.0
455596 2004 TL_{27}	17.8	X	294.78357	288.20653	196.24183	4.52137	0.0475181	0.30123234	2.2039496	21	—	—
455597 2004 TB_{33}	17.8	X	268.48308	152.07973	248.70070	2.33623	0.1796839	0.28172681	2.3045383	21	7 13.7	20.8
455598 2004 TG_{42}	18.0	X	305.09941	99.10683	250.03214	2.72537	0.2665248	0.28200035	2.3030478	21	6 6.5	20.2
455599 2004 TE_{47}	17.8	X	222.64237	222.04632	213.85173	5.06526	0.1871549	0.27739588	2.3284632	21	7 8.6	21.4
455600 2004 TM_{49}	18.0	X	251.14499	270.72814	134.21107	0.89798	0.2395904	0.27866010	2.3214154	21	6 21.7	21.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
455601 2004 TN_{52}	18.1	X	294.72692	154.72313	223.79506	4.84064	0.1807007	0.28220310	2.3019446	21	7 19.0	20.5
455602 2004 TW_{84}	17.1	X	180.91614	10.86019	349.84441	1.43337	0.0790487	0.20430954	2.8550274	21	2 27.9	21.3
455603 2004 TB_{88}	17.2	X	150.13277	208.13568	153.84550	2.42148	0.0792012	0.19945727	2.9011453	21	1 27.9	21.3
455604 2004 TF_{97}	16.8	X	111.01586	25.44431	51.29070	2.56370	0.0367900	0.20296596	2.8676132	21	3 9.8	20.6
455605 2004 TZ_{101}	16.3	X	349.60942	240.04094	216.70944	10.04925	0.1092862	0.18384044	3.0632000	21	—	—
455606 2004 TP_{126}	17.3	X	309.82547	281.88164	54.40973	6.95523	0.2069058	0.28231492	2.3013367	21	6 5.3	19.5
455607 2004 TA_{148}	18.0	X	315.66482	356.82051	5.34480	6.36336	0.1666806	0.28521977	2.2856846	21	8 9.5	19.9
455608 2004 TY_{148}	17.5	X	276.58165	173.04918	213.76920	4.89536	0.1162745	0.28173477	2.3044949	21	7 14.4	20.4
455609 2004 TB_{151}	16.9	X	213.65458	3.33342	10.30083	4.72560	0.0193744	0.21081983	2.7959436	21	4 20.1	20.8
455610 2004 TV_{155}	17.9	X	233.29249	211.30914	190.87978	5.87526	0.1121684	0.27690656	2.3312055	21	6 11.8	21.2
455611 2004 TM_{174}	18.2	X	262.32527	243.95834	155.83351	1.82299	0.2140227	0.28167999	2.3047937	21	6 29.8	21.3
455612 2004 TB_{199}	17.0	X	111.41775	338.04020	88.58272	0.74565	0.0826233	0.20046484	2.8914160	21	3 3.8	21.0
455613 2004 TS_{207}	17.6	X	227.68003	226.62914	208.41831	4.33582	0.2049544	0.27652802	2.3333324	21	7 11.1	21.3
455614 2004 TQ_{273}	17.8	X	266.71674	6.93519	25.14371	5.91597	0.2683389	0.27933708	2.3176632	21	6 16.8	21.1
455615 2004 TP_{277}	18.4	X	261.92591	220.50382	156.24351	1.56776	0.1937928	0.27653784	2.3332772	21	5 31.6	21.7
455616 2004 TS_{277}	18.1	X	268.64215	204.70884	184.22540	2.23540	0.2159758	0.27923369	2.3182353	21	6 21.9	21.3
455617 2004 TO_{279}	17.6	X	334.25059	49.98878	287.26815	1.64351	0.2605095	0.28563075	2.2834916	21	7 26.3	18.3
455618 2004 TB_{326}	18.1	X	268.50015	169.26604	214.92018	4.14658	0.2338388	0.27960426	2.3161865	21	6 12.9	21.4
455619 2004 TB_{333}	18.4	X	237.63150	7.40737	42.97759	1.75792	0.1717376	0.27628730	2.3346876	21	6 21.9	21.8
455620 2004 TS_{368}	18.5	X	219.14522	119.78605	320.19527	2.50129	0.2147827	0.27631768	2.3345164	21	7 9.8	22.2
455621 2004 VT_{1}	16.7	X	5.62215	173.36064	248.65785	7.01526	0.3045583	0.18147515	3.0897590	21	—	—
455622 2004 VS_{5}	18.1	X	311.10845	300.75795	61.62464	4.44680	0.2485093	0.28344014	2.2952420	21	7 13.5	20.1
455623 2004 VB_{7}	17.3	X	48.81574	221.10361	154.96887	2.97483	0.3733745	0.18192511	3.0846623	21	—	—
455624 2004 VE_{32}	17.8	X	260.99899	199.53172	179.44910	2.48115	0.1708535	0.27603967	2.3360836	21	6 5.5	20.9
455625 2004 VH_{37}	18.3	X	305.57976	102.51159	234.96397	3.42556	0.2629446	0.27957088	2.3163709	21	5 21.5	20.8
455626 2004 VK_{40}	17.7	X	307.34920	241.26400	61.83228	6.74909	0.1456048	0.27231141	2.3573577	21	4 26.5	20.3
455627 2004 VO_{44}	17.9	X	270.24468	281.77855	86.35114	3.38325	0.2412578	0.27688748	2.3313126	21	5 23.3	21.3
455628 2004 VA_{45}	16.7	X	97.37986	259.51786	70.49776	11.10897	0.2107040	0.18321655	3.0701499	21	—	—
455629 2004 VA_{54}	16.2	X	347.66234	11.38262	317.84750	14.56680	0.2736476	0.22797251	2.6538787	21	8 16.6	17.7
455630 2004 VO_{63}	18.1	X	255.90064	334.65116	73.30687	6.94576	0.2309466	0.27873714	2.3209876	21	7 1.8	21.5
455631 2004 VG_{88}	16.9	X	91.59252	93.85965	321.72533	2.86129	0.1294615	0.19326333	2.9628051	21	1 31.4	20.7
455632 2004 WN_{4}	18.3	X	249.87964	178.24570	231.27615	4.76104	0.2235493	0.27742898	2.3282780	21	6 27.9	21.7
455633 2004 WR_{12}	18.2	X	80.78081	320.81521	59.80313	23.38546	0.1024121	0.36461482	1.9404979	21	—	—
455634 2004 XF_{2}	16.4	X	71.18382	151.78694	265.17918	12.24845	0.2421074	0.19019549	2.9945799	21	1 16.4	19.7
455635 2004 XL_{6}	17.5	X	5.27430	289.34302	256.41043	20.45410	0.0505494	0.37507891	1.9042368	21	1 18.3	19.6
455636 2004 XD_{11}	16.1	X	343.69912	243.27631	271.94860	23.80860	0.3653881	0.18078597	3.0976064	21	—	—
455637 2004 XC_{15}	17.8	X	268.18803	108.67391	288.13439	2.05178	0.2501620	0.27827118	2.3235779	21	6 27.8	20.8
455638 2004 XO_{26}	17.2	X	22.94510	158.29103	271.37782	7.86170	0.3135760	0.18307547	3.0717270	21	—	—
455639 2004 XG_{28}	17.5	X	136.33727	283.20174	97.91254	24.72859	0.1113627	0.37325800	1.9104249	21	1 1.1	18.9
455640 2004 XO_{70}	16.1	X	15.06527	271.30142	145.16557	16.46974	0.2454212	0.18002118	3.1063734	21	—	—
455641 2004 XN_{78}	17.8	X	220.50471	357.28173	80.47933	12.53849	0.2533543	0.27417175	2.3466820	21	7 5.4	21.7
455642 2004 XJ_{91}	15.8	X	64.68885	322.23136	82.06153	21.25473	0.0922162	0.18385971	3.0629859	21	—	—
455643 2004 XV_{97}	16.7	X	350.69551	143.55941	295.10179	9.93028	0.1439547	0.17481326	3.1677664	21	—	—
455644 2004 XH_{126}	18.0	X	214.31853	11.15798	82.58969	6.01603	0.2548785	0.27350485	2.3504951	21	7 21.5	21.9
455645 2004 XV_{146}	17.8	X	75.03906	356.47582	67.46280	23.69680	0.0601417	0.36806296	1.9283594	21	—	—
455646 2004 XL_{155}	15.8	X	309.84718	235.52194	280.62617	14.76311	0.1847015	0.17709110	3.1405441	21	—	—
455647 2004 XB_{165}	16.1	X	280.45384	285.70164	273.77473	15.61465	0.0232029	0.18454018	3.0554517	21	—	—
455648 2004 YX_{15}	17.8	X	184.28161	192.49408	304.98699	3.57803	0.2442775	0.27138615	2.3627128	21	8 20.7	21.9
455649 2005 AP	18.0	X	180.71897	43.30281	133.32228	2.50763	0.1440598	0.27807492	2.3246710	21	10 12.6	21.6
455650 2005 AC_{3}	17.4	X	332.32288	240.16639	301.18083	17.80363	0.0741075	0.36424453	1.9418128	21	—	—
455651 2005 AA_{10}	17.6	X	243.59607	263.89324	306.66795	18.37394	0.0482080	0.35430541	1.9779601	21	—	—
455652 2005 AV_{19}	16.9	X	199.24722	9.15591	113.85038	23.91157	0.1740306	0.27265645	2.3553685	21	8 22.0	20.8
455653 2005 AE_{48}	17.6	X	113.15630	56.50106	117.85537	8.36964	0.1188251	0.26555063	2.3972012	21	7 27.9	20.8
455654 2005 AS_{53}	16.1	X	314.40324	25.30398	143.74706	11.40335	0.1715770	0.17633838	3.1494750	21	—	—
455655 2005 AO_{60}	17.2	X	183.19109	50.37593	120.99866	23.64423	0.1999767	0.27534635	2.3400034	21	10 14.3	21.5
455656 2005 AB_{67}	16.5	X	58.25949	152.83482	283.14844	8.51125	0.1350260	0.18406374	3.0607220	21	1 9.9	20.1
455657 2005 AJ_{81}	15.6	X	346.44430	128.05848	320.76958	26.18490	0.1552535	0.17320602	3.1873326	21	—	—
455658 2005 AS_{82}	17.7	X	158.12779	115.09094	71.81436	5.62692	0.1761312	0.27471725	2.3435745	21	10 4.9	21.4
455659 2005 BO_{1}	21.4	X	127.74792	174.20030	113.33182	10.67332	0.3562315	1.06560253	0.9493053	21	—	—
455660 2005 BW_{10}	16.8	X	36.25848	128.63424	329.48991	7.64349	0.2316924	0.18379907	3.0636596	21	1 4.0	19.8
455661 2005 BS_{22}	17.8	X	182.28675	320.62277	117.87238	8.36219	0.1943724	0.26422887	2.4051890	21	6 6.6	21.8
455662 2005 BL_{23}	17.3	X	175.27460	36.52184	117.52509	9.13029	0.1425674	0.27133408	2.3630150	21	9 9.3	21.0
455663 2005 BY_{38}	16.7	X	91.07931	95.67756	295.69090	7.47260	0.3069217	0.18566080	3.0431445	21	1 27.9	20.5
455664 2005 CU_{5}	17.4	X	237.91694	236.68150	328.52711	20.13746	0.0968289	0.34929910	1.9968146	21	—	—
455665 2005 CK_{9}	15.8	X	325.28139	354.70028	129.17547	18.16979	0.1676288	0.17311004	3.1885107	21	—	—
455666 2005 CN_{17}	17.9	X	208.63586	317.42149	174.72187	1.72601	0.1525341	0.27431199	2.3458821	21	9 10.8	21.4
455667 2005 CG_{32}	16.7	X	17.18628	305.33339	135.50355	15.58029	0.1811211	0.17576601	3.1563086	21	—	—
455668 2005 CQ_{59}	15.8	X	347.59400	199.48660	314.79700	26.79850	0.1229860	0.17940172	3.1135199	21	1 2.9	20.1
455669 2005 CB_{61}	16.9	X	43.44949	99.31019	53.85720	3.91929	0.2156845	0.18828351	3.0148186	21	4 4.6	20.0
455670 2005 CD_{67}	15.8	X	323.49384	214.30260	345.69277	29.93897	0.3968944	0.17686096	3.1432679	21	—	—
455671 2005 CR_{72}	16.9	X	16.13067	101.66507	340.14255	15.14618	0.2286583	0.17596997	3.1538692	21	—	—
455672 2005 DE	17.3	X	337.75958	226.40427	335.32735	25.29610	0.4978004	0.17888617	3.1194991	21	—	—
455673 2005 DG_{1}	18.7	X	178.86125	129.72656	333.72246	4.79274	0.1887160	0.26419554	2.4053913	21	7 5.3	22.6
455674 2005 ER_{2}	15.7	X	9.63061	9.84822	169.01408	32.40833	0.2855839	0.18342933	3.0677751	21	2 18.1	18.7
455675 2005 EV_{2}	17.6	X	140.51001	241.57602	321.77801	1.41131	0.1729467	0.27252296	2.3561376	21	10 6.1	21.2
455676 2005 EY_{8}	16.0	X	357.87714	181.04348	321.30616	27.36872	0.1054889	0.18072077	3.0983514	21	1 5.8	20.4
455677 2005 ES_{11}	17.5	X	126.68110	188.58979	3.10764	4.17203	0.1955687	0.26645151	2.3917948	21	9 10.4	21.3
455678 2005 EY_{16}	17.7	X	112.44109	33.68156	167.12291	11.98152	0.1819923	0.26373496	2.4081909	21	9 6.4	21.3
455679 2005 EC_{26}	17.9	X	130.61748	173.33103	4.91716	1.29970	0.1147146	0.26462207	2.4028058	21	8 22.1	21.4
455680 2005 EJ_{26}	16.0	X	269.01356	75.21851	166.25019	26.46983	0.2788545	0.17291952	3.1908523	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
455681 2005 EF_{38}	17.8	X	36.52625	103.87524	354.49989	19.70042	0.0803395	0.35764664	1.9656217	21	—	—
455682 2005 EP_{46}	16.6	X	33.54862	313.51714	165.11105	19.25612	0.2630513	0.18302758	3.0722627	21	1 24.3	19.7
455683 2005 EJ_{64}	17.4	X	161.42944	159.07553	349.74033	6.60645	0.1333129	0.26555839	2.3971546	21	8 17.6	21.0
455684 2005 EY_{67}	16.0	X	291.25007	45.95174	159.56925	28.15553	0.1733322	0.17534390	3.1613721	21	—	—
455685 2005 ED_{80}	15.5	X	299.73660	96.46067	139.56437	14.09817	0.2024612	0.17678425	3.1441771	21	1 24.1	20.2
455686 2005 EZ_{88}	15.7	X	276.28056	227.88236	340.50170	13.76442	0.1340437	0.17153944	3.2079436	21	—	—
455687 2005 EK_{94}	19.3	X	280.05681	154.95768	103.05483	14.18386	0.4795537	0.35418308	1.9784155	21	—	—
455688 2005 EP_{100}	15.2	X	330.18383	182.44998	6.06099	27.47888	0.1336562	0.17797884	3.1300922	21	1 25.2	19.9
455689 2005 EL_{102}	16.1	X	10.14398	291.05574	191.31068	25.06124	0.3048425	0.17635111	3.1493233	21	—	—
455690 2005 EH_{113}	18.1	X	65.55328	230.39552	20.28604	1.75997	0.1280751	0.26402824	2.4064073	21	9 12.5	21.1
455691 2005 EP_{123}	17.9	X	78.14189	15.55220	235.31282	4.72959	0.1361503	0.26483910	2.4014929	21	9 27.9	21.1
455692 2005 EA_{125}	17.6	X	149.82780	142.58774	5.98900	5.35817	0.1115441	0.26187594	2.4195744	21	8 4.5	21.1
455693 2005 EN_{150}	16.7	X	3.61508	164.25691	27.00141	14.95119	0.1992643	0.18197093	3.0841444	21	3 10.7	20.2
455694 2005 EN_{169}	16.4	X	179.95259	93.45164	77.96754	22.42362	0.2169946	0.27093954	2.3653085	21	10 13.4	20.8
455695 2005 EP_{173}	17.4	X	179.99611	212.13632	280.42707	3.91993	0.1357411	0.26615926	2.3935454	21	8 12.3	21.1
455696 2005 EB_{181}	16.0	X	295.24709	81.20155	145.16890	26.81928	0.1969570	0.18037763	3.1022796	21	1 9.6	21.0
455697 2005 EB_{188}	18.0	X	146.42619	345.72054	204.16137	1.79418	0.1332946	0.26617384	2.3934580	21	9 23.3	21.4
455698 2005 EY_{191}	17.1	X	6.40089	313.10482	178.32133	12.77948	0.1938592	0.17782108	3.1319432	21	—	—
455699 2005 ED_{192}	16.2	X	36.23211	135.76582	344.67121	16.64043	0.1657814	0.18103044	3.0948171	21	2 6.3	19.8
455700 2005 ES_{197}	17.9	X	173.30174	216.90285	325.25915	1.64384	0.1512064	0.27210867	2.3585285	21	10 9.7	21.6
455701 2005 EZ_{208}	17.5	X	123.85601	301.13591	286.73098	1.66901	0.1755247	0.26996777	2.3709812	21	10 21.4	21.3
455702 2005 EL_{211}	17.0	X	151.96333	54.98468	145.46264	23.23488	0.1566425	0.27282341	2.3544075	21	10 20.2	21.1
455703 2005 EL_{213}	15.6	X	41.48802	70.16017	1.00225	21.94407	0.0801946	0.17130896	3.2108203	21	—	—
455704 2005 EO_{241}	17.7	X	130.09564	81.56133	113.66799	7.44202	0.2393258	0.26657217	2.3910730	21	9 22.7	21.8
455705 2005 ER_{243}	15.7	X	334.01260	213.45788	5.05463	14.58123	0.2466603	0.18276511	3.0752035	21	2 13.7	19.7
455706 2005 EC_{246}	16.3	X	307.09212	219.15611	1.84479	10.14294	0.0374810	0.17894465	3.1188195	21	2 9.4	20.7
455707 2005 EC_{267}	16.2	X	351.63877	171.37028	349.87767	4.50404	0.1341481	0.17560980	3.1581801	21	1 12.4	20.2
455708 2005 EK_{268}	15.9	X	358.92916	170.15898	358.23432	12.24298	0.1425795	0.17823219	3.1271253	21	2 3.6	19.8
455709 2005 EP_{280}	16.1	X	297.20406	153.61196	33.91858	8.36910	0.3449319	0.17062741	3.2193648	21	—	—
455710 2005 ET_{306}	17.4	X	45.83437	306.76752	317.89638	0.36092	0.1779291	0.26361462	2.4089238	21	9 11.0	20.1
455711 2005 EV_{316}	16.5	X	349.95678	111.06827	58.90300	2.63168	0.1533441	0.17710181	3.1404174	21	1 17.6	20.2
455712 2005 EH_{317}	16.5	X	163.53020	149.79084	176.97234	10.96229	0.0284251	0.17354543	3.1831756	21	—	—
455713 2005 FU_{3}	16.3	X	15.66238	111.52016	13.81737	26.02545	0.2307160	0.17937675	3.1138089	21	—	—
455714 2005 GL_{18}	17.3	X	99.38241	103.61179	95.82650	6.42480	0.1306574	0.25902800	2.4372771	21	8 17.8	20.7
455715 2005 GX_{21}	16.0	X	336.28374	114.62460	37.43437	16.14188	0.2310068	0.17317379	3.1877282	21	—	—
455716 2005 GC_{25}	17.9	X	50.97912	243.13920	7.10626	6.75242	0.0906332	0.26033351	2.4291220	21	8 16.9	20.7
455717 2005 GA_{29}	16.8	X	311.91712	226.81368	19.84228	14.41414	0.0789687	0.24101143	2.5572761	21	3 5.8	20.3
455718 2005 GF_{42}	17.7	X	137.36039	260.26063	273.58399	1.20781	0.1468996	0.26715437	2.3875980	21	8 24.6	21.1
455719 2005 GV_{62}	16.3	X	335.05990	133.95681	349.96111	14.71432	0.1174091	0.17135681	3.2102225	21	—	—
455720 2005 GE_{65}	16.2	X	0.08952	31.04399	155.93035	20.46166	0.1951784	0.18109354	3.0940980	21	2 18.9	19.6
455721 2005 GO_{68}	16.8	X	342.65369	119.84992	86.69466	13.45220	0.4048727	0.17939495	3.1135983	21	1 12.7	20.5
455722 2005 GM_{90}	16.4	X	301.45954	263.40233	315.36935	2.97392	0.0781224	0.17450853	3.1714530	21	1 23.1	20.9
455723 2005 GU_{90}	17.6	X	158.79758	204.78722	299.17813	2.68200	0.0652784	0.26077074	2.4264061	21	8 4.6	20.7
455724 2005 GA_{117}	18.2	X	160.25570	209.41147	359.04474	2.59923	0.1642255	0.27040689	2.3684136	21	10 30.1	22.0
455725 2005 GA_{126}	17.8	X	107.17850	215.73648	15.95895	2.50063	0.1625932	0.26738439	2.3862285	21	10 10.0	21.4
455726 2005 GR_{130}	15.4	X	327.16975	90.73029	127.59390	15.01660	0.2264791	0.17634894	3.1493491	21	2 2.5	19.5
455727 2005 GK_{131}	18.0	X	161.30811	70.69274	64.38019	2.95528	0.1400333	0.26077228	2.4263965	21	7 29.5	21.7
455728 2005 GU_{132}	18.1	X	64.16938	126.18291	106.95034	2.40713	0.1390989	0.25730168	2.4481666	21	8 18.1	21.0
455729 2005 GZ_{134}	17.3	X	304.89327	306.53353	235.23349	1.52550	0.2276975	0.16935168	3.2355121	21	—	—
455730 2005 GF_{141}	16.0	X	338.09583	52.06021	159.89650	28.12109	0.3461604	0.17746217	3.1361647	21	1 21.7	20.2
455731 2005 GF_{149}	15.9	X	293.04094	143.47424	85.25599	7.30811	0.1184771	0.17201440	3.2020358	21	1 21.0	20.6
455732 2005 GN_{160}	16.4	X	237.44639	162.06383	110.16534	2.30304	0.0985286	0.16995898	3.2278001	21	1 16.2	21.2
455733 2005 GE_{180}	15.3	X	327.51476	97.52411	107.78178	26.12067	0.2547583	0.17522139	3.1628454	21	1 13.7	19.5
455734 2005 GJ_{180}	15.5	X	342.74389	107.99166	85.55070	27.09478	0.1765159	0.17784621	3.1316483	21	2 5.2	19.8
455735 2005 GR_{222}	18.0	X	60.72276	127.42761	134.59676	2.13470	0.1584236	0.26013688	2.4303460	21	9 26.5	20.9
455736 2005 HC_{3}	17.8	X	292.72755	107.31346	94.78293	32.02207	0.3735262	0.35302102	1.9827548	21	—	—
455737 2005 HR_{7}	16.1	X	285.04435	37.00559	210.94801	15.91802	0.1824342	0.17304703	3.1892847	21	1 22.2	21.3
455738 2005 JD	17.4	X	90.92727	147.51165	102.03417	8.04131	0.1965336	0.26125963	2.4233781	21	10 22.9	21.2
455739 Isabelita	17.8	X	47.43517	206.64284	43.72269	3.03023	0.1688653	0.25484353	2.4638843	21	8 22.9	20.6
455740 2005 JA_{14}	17.1	X	40.66547	289.59584	354.26631	10.11667	0.3684617	0.25608837	2.4558932	21	10 26.9	20.4
455741 2005 JL_{31}	15.6	X	334.31569	189.45934	56.67015	19.33587	0.1612190	0.18061455	3.0995661	21	4 7.6	19.7
455742 2005 JJ_{34}	17.7	X	108.78525	75.48963	133.33416	5.86124	0.2080830	0.25945630	2.4345941	21	9 17.3	21.5
455743 2005 JV_{45}	16.2	X	346.79692	56.70763	102.27939	27.52185	0.1719914	0.17375712	3.1805897	21	—	—
455744 2005 JW_{48}	16.9	X	62.26784	156.62843	69.28854	15.72039	0.1211971	0.25362891	2.4717443	21	8 5.5	20.2
455745 2005 JU_{55}	16.8	X	260.72110	194.97659	110.11746	15.35633	0.0895032	0.23703458	2.5857999	21	3 17.9	20.8
455746 2005 JM_{85}	17.6	X	56.78901	84.19957	155.93475	1.08755	0.1983492	0.25471942	2.4646845	21	8 26.2	20.4
455747 2005 JL_{112}	17.1	X	26.56450	78.24478	198.91826	11.81719	0.2124323	0.25307399	2.4753562	21	8 27.3	19.6
455748 2005 JO_{112}	16.3	X	47.66007	166.21188	135.52623	29.26184	0.3122348	0.25923410	2.4359851	21	12 1.8	20.5
455749 2005 JL_{117}	17.5	X	44.42342	49.63632	106.80519	6.75614	0.1852339	0.24170078	2.5524114	21	3 30.9	19.9
455750 2005 JA_{131}	17.3	X	244.97785	197.85433	82.46272	14.71727	0.1601920	0.23059981	2.6336825	21	1 21.6	21.7
455751 2005 JE_{152}	17.7	X	98.33526	175.38979	22.95529	1.33809	0.1273668	0.26016775	2.4301537	21	8 13.1	21.1
455752 2005 JV_{185}	17.5	X	83.67978	223.01023	18.96466	5.37153	0.1889541	0.26062334	2.4273208	21	10 1.5	21.0
455753 2005 KX_{8}	16.7	X	194.53067	185.53971	125.80059	9.66686	0.1746628	0.22568766	2.6717604	21	1 13.9	21.1
455754 2005 LV_{39}	17.1	X	22.55996	82.17133	135.30729	6.24028	0.1164183	0.24504962	2.5291040	21	5 11.8	19.8
455755 2005 LS_{53}	16.9	X	177.35768	254.18183	94.63385	13.74136	0.2862880	0.22521171	2.6755233	21	2 21.9	21.8
455756 2005 MA_{1}	16.6	X	268.35888	25.32588	311.86441	10.86602	0.1960137	0.23303685	2.6152887	21	4 12.7	20.9
455757 2005 ME_{1}	17.0	X	230.49433	18.07265	311.53339	12.07961	0.1701638	0.22505021	2.6768031	21	3 3.2	21.5
455758 2005 MP_{14}	16.8	X	262.56657	25.82873	287.63272	13.30331	0.2682389	0.23069721	2.6329411	21	3 2.2	21.5
455759 2005 MR_{26}	17.4	X	223.11470	239.21090	113.23045	5.84286	0.2035432	0.22985449	2.6393727	21	3 29.6	21.8
455760 2005 MF_{31}	16.6	X	254.35267	228.71989	120.10764	12.09393	0.1451458	0.24070655	2.5594350	21	4 28.9	20.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
455761 2005 MO_{36}	16.8	X	136.49713	244.70597	109.92960	8.77702	0.2402898	0.21369222	2.7708323	21	1 20.9	21.0
455762 2005 NW_{1}	16.7	X	292.41442	50.32734	290.29351	12.42703	0.2068564	0.23905642	2.5711995	21	5 16.7	20.3
455763 2005 NH_{2}	17.4	X	159.55060	246.98872	122.03729	8.96410	0.3523130	0.21812151	2.7331936	21	3 7.3	22.4
455764 2005 NW_{11}	18.3	X	46.03601	178.33979	114.57529	3.67907	0.1500669	0.31591975	2.1350999	21	10 27.0	20.6
455765 2005 ND_{12}	17.1	X	356.63657	113.37369	119.85943	15.49481	0.0762595	0.23709912	2.5853306	21	4 25.9	20.5
455766 2005 NU_{19}	18.9	X	333.52913	89.45513	268.02075	2.62760	0.2427888	0.30993794	2.1624839	21	9 8.9	19.6
455767 2005 NX_{25}	17.7	X	141.19001	241.91756	135.12211	18.91422	0.3252725	0.21596963	2.7513189	21	3 1.9	22.4
455768 2005 NF_{41}	17.3	X	340.07973	145.84467	124.21745	8.54416	0.1436646	0.24017716	2.5631946	21	5 9.1	20.1
455769 2005 NR_{43}	17.3	X	200.93617	55.05670	289.42394	10.46266	0.2103913	0.22477985	2.6789491	21	2 23.9	22.1
455770 2005 NC_{50}	17.2	X	157.71498	91.74631	274.77432	7.69031	0.2722579	0.21902907	2.7256382	21	2 20.6	22.0
455771 2005 NA_{68}	17.2	X	353.15230	244.15568	39.71574	4.70681	0.2035681	0.24339834	2.5405299	21	6 18.2	19.2
455772 2005 NF_{97}	16.8	X	121.87871	199.39869	157.18064	8.46201	0.3025009	0.21065774	2.7973777	21	1 15.6	21.1
455773 2005 NQ_{122}	16.1	X	153.65921	58.38432	280.90876	13.26137	0.2126288	0.21134986	2.7912672	21	1 14.9	20.6
455774 2005 OV_{4}	17.2	X	131.97289	159.45923	184.73799	3.78318	0.2006918	0.21151633	2.7898025	21	—	—
455775 2005 OX_{6}	16.6	X	187.50624	213.18840	134.65229	12.66869	0.3491559	0.21933273	2.7231219	21	2 27.4	21.7
455776 2005 OM_{15}	16.9	X	187.27942	93.04590	270.26696	11.25962	0.2879346	0.22256256	2.6967124	21	3 7.9	22.0
455777 2005 OS_{27}	16.8	X	327.69447	195.91392	112.95533	9.17247	0.3141805	0.24079687	2.5587950	21	5 14.5	19.4
455778 2005 PR_{14}	17.0	X	328.34492	287.59500	349.96578	8.99334	0.1866854	0.23645975	2.5899889	21	4 15.3	20.1
455779 2005 QX_{19}	17.3	X	218.30371	352.96925	3.62737	2.04667	0.2163105	0.22526409	2.6751085	21	3 27.9	21.7
455780 2005 QX_{21}	16.7	X	128.05295	168.52027	329.62006	9.85399	0.0717762	0.23565970	2.5958475	21	6 21.1	20.5
455781 2005 QG_{50}	16.6	X	211.58287	340.84697	359.35058	13.99708	0.2613657	0.22207191	2.7006831	21	3 5.8	21.5
455782 2005 QX_{54}	17.3	X	146.54290	76.65890	331.78049	11.72486	0.1377777	0.22154543	2.7049601	21	3 20.9	21.5
455783 2005 QE_{81}	17.0	X	147.89073	70.60575	329.77526	14.66373	0.1045055	0.22082763	2.7108185	21	3 9.5	21.0
455784 2005 QZ_{113}	17.7	X	320.19810	158.36013	145.54809	4.20513	0.2286460	0.23617565	2.5920655	21	5 7.6	20.5
455785 2005 QW_{115}	17.4	X	296.23616	148.27142	158.06288	11.03715	0.0755147	0.23305740	2.6151350	21	5 2.3	21.0
455786 2005 QQ_{117}	17.5	X	192.90847	215.82049	146.10379	3.19670	0.2210279	0.22243641	2.6977320	21	3 15.4	22.2
455787 2005 QX_{121}	17.0	X	118.48051	212.12492	168.62121	13.67649	0.0892635	0.21247369	2.7814160	21	1 11.7	21.0
455788 2005 QC_{137}	17.4	X	303.31294	230.12060	69.31958	2.82947	0.1227783	0.23167692	2.6255131	21	4 22.7	20.8
455789 2005 QN_{187}	16.7	X	139.42035	57.35921	350.30634	13.76218	0.1022141	0.21864250	2.7288500	21	3 12.6	20.6
455790 2005 QJ_{188}	17.1	X	58.21349	235.87894	355.10398	4.77628	0.0464827	0.23808990	2.5781533	21	7 21.8	20.4
455791 2005 RU_{25}	16.3	X	197.60706	123.22066	224.03712	8.39497	0.3203426	0.21950021	2.7217365	21	2 27.5	21.5
455792 2005 RO_{40}	17.2	X	123.87702	104.66785	275.67958	6.96407	0.3040445	0.21033565	2.8002327	21	2 13.2	21.7
455793 2005 RP_{40}	16.5	X	270.28817	21.74720	291.11955	10.85448	0.2661919	0.23031843	2.6358271	21	3 9.1	21.0
455794 2005 RN_{51}	16.9	X	187.84401	233.04719	180.35430	15.07378	0.1800978	0.22885340	2.6470641	21	5 13.4	21.5
455795 2005 SF	18.8	X	304.29044	148.91939	110.44681	10.10341	0.6541150	0.36144858	1.9518137	21	—	—
455796 2005 SE_{4}	16.4	X	295.10080	138.00992	192.66757	13.64363	0.2900305	0.23491459	2.6013337	21	4 28.7	20.0
455797 2005 SY_{4}	17.7	X	134.20764	222.48591	177.33298	13.02941	0.3055920	0.21441568	2.7645961	21	3 19.3	22.2
455798 2005 SB_{11}	16.9	X	270.54926	168.62809	190.62133	12.72555	0.1886649	0.23407035	2.6075848	21	5 21.9	20.8
455799 2005 SW_{11}	16.9	X	179.12163	347.63051	27.96471	6.27476	0.1198843	0.21875078	2.7279494	21	3 18.2	21.1
455800 2005 SJ_{12}	17.0	X	202.77334	201.78818	195.94845	11.63762	0.1775262	0.22705278	2.6610406	21	5 6.0	21.4
455801 2005 SV_{47}	17.4	X	210.86803	23.30189	349.16443	4.96181	0.0719169	0.22381056	2.6866783	21	4 11.6	21.4
455802 2005 SE_{62}	16.8	X	253.36347	288.70148	25.32759	5.63291	0.0507746	0.22166639	2.7039759	21	3 21.6	20.6
455803 2005 SV_{66}	17.2	X	161.20890	181.63032	184.75835	4.25061	0.0891390	0.21499825	2.7595998	21	2 11.9	21.3
455804 2005 SL_{78}	17.4	X	106.44836	36.78070	15.65118	8.30247	0.2405741	0.21110250	2.7934472	21	3 3.2	21.3
455805 2005 SP_{110}	17.0	X	190.17412	18.13717	16.96554	3.44695	0.0989702	0.22348446	2.6892912	21	4 19.2	21.0
455806 2005 SF_{118}	16.8	X	128.80316	34.59683	27.14958	13.30049	0.2388209	0.21615461	2.7497490	21	4 5.3	21.2
455807 2005 SF_{133}	17.0	X	196.69477	239.59026	207.54324	21.47843	0.0430295	0.23164306	2.6257690	21	6 30.9	21.2
455808 2005 SY_{146}	17.1	X	149.50438	215.85120	178.17633	2.35120	0.2094175	0.21548222	2.7554662	21	3 17.1	21.3
455809 2005 SQ_{148}	16.7	X	167.82477	0.40752	35.47993	6.36365	0.0482251	0.21885724	2.7270647	21	3 27.1	20.5
455810 2005 SW_{148}	17.0	X	180.04002	290.73215	92.86115	2.30316	0.1279047	0.21936840	2.7228267	21	3 28.4	21.2
455811 2005 SH_{171}	16.9	X	80.82453	86.94619	1.00607	12.21527	0.1892798	0.21160486	2.7890243	21	3 5.9	20.3
455812 2005 SJ_{178}	17.1	X	185.92305	7.13775	356.51546	13.92560	0.1545011	0.21949383	2.7217893	21	3 10.7	21.4
455813 2005 SK_{184}	17.2	X	270.46998	325.11989	357.74934	5.37467	0.0702211	0.22627539	2.6671319	21	4 16.9	20.8
455814 2005 SK_{188}	17.1	X	228.54914	120.75993	200.04668	4.75511	0.1226819	0.21911454	2.7249294	21	2 23.9	21.5
455815 2005 SO_{198}	17.4	X	296.01309	306.75648	339.90772	1.47752	0.1782288	0.23019574	2.6367636	21	3 17.9	20.9
455816 2005 SW_{212}	17.3	X	116.73632	46.02325	18.99623	7.41314	0.1761790	0.21305687	2.7763381	21	3 20.5	21.2
455817 2005 SV_{214}	17.0	X	263.18276	118.07506	226.58076	10.33535	0.3333086	0.23132680	2.6281617	21	4 8.5	21.6
455818 2005 SS_{223}	17.0	X	116.73471	259.02867	185.17310	6.37899	0.0769702	0.21921849	2.7240679	21	3 29.0	20.6
455819 2005 SL_{232}	17.3	X	87.01388	79.31478	29.13334	10.83506	0.2596086	0.21174797	2.7877674	21	4 19.3	20.9
455820 2005 SK_{233}	17.2	X	163.68206	302.21618	64.41837	0.53980	0.1152519	0.21259114	2.7803915	21	2 18.8	21.3
455821 2005 SU_{240}	17.1	X	208.88577	39.17731	331.78788	5.51515	0.0428980	0.22252681	2.6970013	21	4 7.5	20.9
455822 2005 SV_{240}	17.1	X	239.56620	54.07039	298.42465	4.30723	0.0718287	0.22520126	2.6756061	21	4 17.7	21.0
455823 2005 SA_{291}	17.4	X	173.49091	183.83474	178.46343	5.56945	0.0964877	0.21513659	2.7584167	21	2 20.6	21.6
455824 2005 SD_{293}	16.3	X	231.44976	72.80525	316.61406	15.60342	0.1466741	0.23166410	2.6256100	21	5 18.1	20.7
455825 2005 TL_{3}	16.4	X	180.00195	323.36648	37.60829	15.22503	0.3033347	0.21634041	2.7481743	21	3 13.9	21.6
455826 2005 TQ_{14}	16.9	X	290.53687	312.34669	11.13469	31.85781	0.1970340	0.23416377	2.6068912	21	4 15.5	20.9
455827 2005 TX_{15}	17.4	X	143.40544	114.51922	241.41795	2.70433	0.1066849	0.21065808	2.7973747	21	1 14.1	21.5
455828 2005 TQ_{23}	17.1	X	124.92843	239.79530	191.35130	12.71249	0.1436892	0.21832870	2.7314641	21	3 30.9	21.0
455829 2005 TQ_{25}	18.4	X	308.01582	170.57054	199.91440	2.40381	0.1863100	0.30184717	2.2009557	21	7 31.8	20.2
455830 2005 TX_{32}	17.2	X	217.40667	208.79477	156.59454	4.24929	0.1018746	0.22467736	2.6797637	21	4 11.6	21.2
455831 2005 TB_{45}	17.2	X	133.30560	57.39143	23.37698	6.24410	0.0189196	0.22038831	2.7144198	21	4 6.6	20.7
455832 2005 TB_{62}	18.7	X	337.81731	358.76985	48.10403	3.77784	0.1339603	0.31209106	2.1525265	21	12 16.7	20.3
455833 2005 TS_{77}	16.6	X	130.64886	10.85384	24.89665	15.05256	0.2623451	0.21157594	2.7892784	21	3 13.4	21.1
455834 2005 TC_{84}	16.9	X	186.65050	36.15665	355.12945	6.12273	0.0590222	0.22215343	2.7000224	21	4 8.7	20.8
455835 2005 TO_{84}	17.0	X	165.08909	8.75859	7.82407	9.41788	0.0354227	0.21584012	2.7524194	21	2 27.8	20.9
455836 2005 TU_{94}	17.1	X	133.19315	87.36870	344.42827	6.27920	0.0631260	0.21906078	2.7253751	21	3 29.6	20.9
455837 2005 TW_{96}	17.1	X	241.32858	293.52777	28.22767	6.24943	0.0777634	0.22053309	2.7132316	21	3 16.0	21.1
455838 2005 TU_{97}	17.1	X	177.83563	134.41061	236.15736	5.21794	0.0165470	0.21540774	2.7561013	21	2 28.8	21.0
455839 2005 TX_{97}	17.2	X	221.61088	105.86701	217.81122	9.83114	0.2480730	0.21894348	2.7263486	21	2 16.4	22.2
455840 2005 TZ_{97}	17.7	X	169.13927	140.03794	239.09356	2.94003	0.1079602	0.21578771	2.7528650	21	3 8.9	21.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
455841 2005 TM_{110}	17.0	X	197.64172	147.50919	206.00066	10.97087	0.1676253	0.21999056	2.7176907	21	3 5.2	21.7
455842 2005 TQ_{111}	17.2	X	212.51301	90.58138	259.56228	1.89087	0.1081804	0.22141544	2.7060186	21	3 16.5	21.5
455843 2005 TU_{120}	17.1	X	223.48660	303.11675	28.44063	4.96728	0.1387743	0.22018673	2.7160763	21	3 6.8	21.5
455844 2005 TE_{130}	17.3	X	239.95940	299.25863	33.14645	2.92801	0.1796334	0.22262928	2.6961737	21	3 19.7	21.6
455845 2005 TB_{135}	16.8	X	51.93864	316.09145	193.50762	7.06982	0.1528285	0.21596012	2.7513996	21	4 1.8	19.8
455846 2005 TZ_{149}	17.4	X	125.01188	346.26136	59.41753	4.71133	0.1129917	0.21340575	2.7733114	21	2 26.3	21.3
455847 2005 TS_{158}	18.8	X	272.81285	20.76901	348.88267	2.75008	0.1974936	0.29716325	2.2240232	21	6 1.4	21.7
455848 2005 TN_{168}	16.7	X	113.39953	49.90623	18.87472	6.91699	0.0384834	0.21407837	2.7674994	21	3 2.6	20.5
455849 2005 TN_{179}	17.0	X	144.85783	133.59891	1.81270	15.08721	0.0641612	0.23386137	2.6091380	21	7 10.1	21.0
455850 2005 TJ_{190}	17.3	X	162.83430	317.40932	63.01041	5.55539	0.1290906	0.21552698	2.7550847	21	3 9.9	21.5
455851 2005 UF_{6}	17.6	X	349.24355	323.53190	52.20336	22.39499	0.0738032	0.37097846	1.9182429	21	11 24.5	19.0
455852 2005 UA_{13}	17.1	X	23.35712	269.60322	353.36608	3.95268	0.1164377	0.23513774	2.5996876	21	7 20.4	19.9
455853 2005 UD_{13}	17.3	X	215.04564	148.86117	219.03940	5.63518	0.0263864	0.22259487	2.6964515	21	4 13.1	21.1
455854 2005 UU_{15}	17.0	X	239.90306	224.23678	67.02611	3.06047	0.0685069	0.21287676	2.7779039	21	2 5.7	21.0
455855 2005 UD_{22}	17.0	X	72.09654	97.42992	20.16933	7.87592	0.1795603	0.21197820	2.7857485	21	3 28.9	20.1
455856 2005 UQ_{23}	17.3	X	108.23820	81.64688	300.20444	1.41341	0.1044002	0.20509965	2.8476904	21	1 5.2	21.2
455857 2005 UX_{27}	16.8	X	125.27748	218.03579	220.87709	12.10414	0.0885464	0.21626854	2.7487832	21	4 1.1	20.8
455858 2005 UL_{34}	18.4	X	297.29711	22.63211	42.64277	1.23503	0.1693182	0.30571614	2.1823470	21	10 15.2	19.7
455859 2005 UR_{37}	17.0	X	230.04312	246.26599	63.88075	5.41584	0.0567252	0.21159576	2.7891042	21	2 20.2	21.1
455860 2005 US_{41}	17.3	X	171.05030	346.60819	22.59686	5.99885	0.1028524	0.21393349	2.7687487	21	3 2.3	21.5
455861 2005 UN_{42}	17.8	X	350.46453	321.61038	38.60356	6.26221	0.1656298	0.30800558	2.1715191	21	10 31.0	19.3
455862 2005 UL_{46}	16.3	X	204.40743	354.88230	50.08904	14.60236	0.1526541	0.22411414	2.6842515	21	5 15.1	20.7
455863 2005 US_{48}	17.2	X	189.77614	72.06012	295.98212	2.50353	0.2096269	0.21750053	2.7383934	21	3 18.5	21.8
455864 2005 UT_{60}	18.9	X	336.90078	140.35507	212.17289	2.05030	0.1468376	0.30297272	2.1955013	21	9 11.7	20.5
455865 2005 UQ_{71}	16.7	X	203.65737	5.71411	336.22293	8.23076	0.2037598	0.21795309	2.7346014	21	2 27.6	21.3
455866 2005 UB_{75}	16.9	X	258.90086	309.94188	17.55533	14.60781	0.0893930	0.22678213	2.6631574	21	4 7.9	20.6
455867 2005 UO_{76}	16.6	X	173.41619	3.67768	350.91064	12.16290	0.2071441	0.21304016	2.7764833	21	2 21.5	21.3
455868 2005 UY_{77}	16.5	X	208.42551	340.42127	13.44719	14.13328	0.2593213	0.22329281	2.6908297	21	3 19.5	21.3
455869 2005 UJ_{78}	17.4	X	173.84742	154.68861	215.32522	4.71973	0.0969453	0.21545003	2.7557406	21	3 1.6	21.6
455870 2005 UX_{83}	18.3	X	347.96719	204.21246	160.42140	0.96842	0.1559264	0.30805554	2.1712843	21	11 1.1	19.8
455871 2005 UP_{89}	17.2	X	217.26451	82.84162	245.78043	10.85777	0.1661195	0.21683529	2.7439913	21	2 18.8	21.9
455872 2005 UT_{89}	16.8	X	18.24982	214.82375	274.45911	5.50101	0.2117494	0.20325795	2.8648663	21	—	—
455873 2005 UZ_{91}	16.6	X	159.88544	142.10116	274.91446	4.89439	0.0456691	0.21871228	2.7282696	21	4 9.1	20.5
455874 2005 UH_{94}	17.0	X	86.52329	91.11437	2.15293	4.69817	0.1250434	0.21081638	2.7959741	21	3 9.7	20.4
455875 2005 UO_{95}	17.5	X	89.17876	258.81105	194.88450	5.17918	0.1901470	0.21045734	2.7991532	21	3 22.8	21.1
455876 2005 UL_{101}	16.7	X	111.84176	350.98341	87.25269	5.10059	0.0778828	0.21322735	2.7748581	21	3 18.8	20.5
455877 2005 UM_{101}	17.3	X	229.88495	149.37528	172.36927	4.46198	0.0715041	0.21585776	2.7522694	21	3 2.1	21.4
455878 2005 UO_{102}	16.9	X	178.52878	311.52820	58.93464	7.52086	0.0648937	0.21398412	2.7683119	21	3 11.1	21.0
455879 2005 UN_{107}	18.4	X	281.20556	292.16047	126.58282	1.84357	0.1802070	0.30192066	2.2005986	21	8 31.1	20.5
455880 2005 UG_{110}	17.0	X	129.55932	139.65758	262.89040	3.32973	0.1111415	0.20952689	2.8074339	21	2 24.1	21.1
455881 2005 UP_{114}	16.2	X	138.28519	220.42486	200.02260	12.97955	0.2242414	0.21509527	2.7587699	21	4 9.2	20.5
455882 2005 UR_{116}	17.5	X	256.40707	100.04590	221.60186	4.33685	0.0377629	0.22034554	2.7147711	21	4 3.2	21.3
455883 2005 UH_{118}	17.1	X	166.31245	355.49037	23.38872	4.11417	0.1116971	0.21487819	2.7606276	21	3 8.8	21.2
455884 2005 UL_{118}	17.4	X	75.31930	57.40934	31.73833	6.99400	0.0627193	0.20955717	2.8071635	21	2 10.9	21.1
455885 2005 UP_{129}	17.3	X	180.65756	138.25803	230.68422	5.72811	0.0720518	0.21473504	2.7618543	21	3 5.4	21.6
455886 2005 UH_{137}	17.4	X	50.35764	217.46655	189.23071	1.83296	0.0599136	0.19950319	2.9007000	21	—	—
455887 2005 UC_{140}	17.1	X	6.65813	119.41168	54.37744	4.48887	0.0350708	0.21289673	2.7777301	21	2 20.7	20.7
455888 2005 US_{151}	17.2	X	171.84932	354.25359	31.09335	3.68410	0.0996300	0.21533736	2.7567018	21	3 21.3	21.3
455889 2005 US_{152}	17.1	X	118.57347	37.83515	42.97314	8.44402	0.2000331	0.21324949	2.7746660	21	4 14.3	21.3
455890 2005 UP_{154}	17.2	X	280.17433	21.87851	237.00914	3.34855	0.0241415	0.21082841	2.7958678	21	2 14.4	21.2
455891 2005 UT_{154}	17.1	X	177.90318	324.73665	50.91586	4.00284	0.1028002	0.21452131	2.7636885	21	3 16.6	21.4
455892 2005 UV_{154}	17.1	X	156.48420	143.57221	232.62331	9.25771	0.1410233	0.21121714	2.7924363	21	2 21.2	21.6
455893 2005 UF_{155}	16.8	X	89.47633	43.28582	49.49187	7.91201	0.1138618	0.21049116	2.7988533	21	3 15.1	20.5
455894 2005 UD_{166}	17.3	X	4.64638	147.91116	21.43011	1.96975	0.0362545	0.21192921	2.7861779	21	2 10.9	20.9
455895 2005 UO_{169}	17.5	X	147.68962	359.21647	27.96352	5.59332	0.1912579	0.21245356	2.7815916	21	3 8.2	21.8
455896 2005 UC_{171}	17.1	X	119.09527	7.03350	36.62382	6.03812	0.0850471	0.20886591	2.8133537	21	2 13.9	21.1
455897 2005 UH_{174}	16.7	X	156.70059	11.22884	16.30285	6.31458	0.0684317	0.21225596	2.7833178	21	3 6.5	20.8
455898 2005 UW_{176}	17.4	X	104.17492	229.78280	250.27799	3.99770	0.0958249	0.21723691	2.7406083	21	4 30.8	21.1
455899 2005 UL_{178}	17.3	X	125.61968	40.94967	353.70610	2.04138	0.1904098	0.20903015	2.8118799	21	2 21.9	21.4
455900 2005 UR_{179}	17.3	X	46.53861	314.28668	114.83392	3.05989	0.0770436	0.19918152	2.9038222	21	—	—
455901 2005 UA_{187}	16.7	X	154.36675	342.67232	33.31295	4.62811	0.1141630	0.21095841	2.7947190	21	2 22.4	20.9
455902 2005 UX_{190}	17.3	X	322.09297	227.93874	44.27326	9.50577	0.0881811	0.22241107	2.6979368	21	4 19.9	20.6
455903 2005 UF_{192}	16.8	X	343.79339	267.50135	238.32961	14.63319	0.0254902	0.20134915	2.8829438	21	—	—
455904 2005 UV_{195}	17.4	X	165.02952	2.92468	36.96983	6.52439	0.0579189	0.21926552	2.7236784	21	3 29.6	21.2
455905 2005 UU_{196}	17.3	X	142.41592	177.65203	220.20361	5.33354	0.0469855	0.21180319	2.7872829	21	2 24.3	21.4
455906 2005 UY_{196}	17.0	X	53.56818	186.22727	212.37161	7.79738	0.0705523	0.19755949	2.9196948	21	—	—
455907 2005 UV_{200}	17.3	X	102.86379	20.20881	51.00426	9.06325	0.2159829	0.20954474	2.8072744	21	3 20.8	21.3
455908 2005 UY_{211}	16.8	X	219.21889	137.27050	222.36172	11.49955	0.1425573	0.22039352	2.7143770	21	4 1.6	21.2
455909 2005 UD_{220}	17.3	X	156.67269	40.36901	359.38400	4.28901	0.0896711	0.21603545	2.7507600	21	3 21.1	21.3
455910 2005 UW_{221}	17.0	X	165.66842	15.99619	23.64999	7.87079	0.1130039	0.21775850	2.7362303	21	4 2.1	21.2
455911 2005 UL_{222}	17.0	X	113.76712	215.31466	236.55533	7.18727	0.1941830	0.21503946	2.7592472	21	4 19.1	21.0
455912 2005 UP_{223}	17.2	X	112.36737	68.58719	344.44898	2.61175	0.1947130	0.21010260	2.8023030	21	3 1.9	21.1
455913 2005 UQ_{223}	17.4	X	185.00469	24.11274	328.46337	2.90639	0.1047407	0.21426540	2.7658886	21	2 21.9	21.7
455914 2005 US_{224}	17.1	X	228.95521	118.37519	253.43916	5.03639	0.0379779	0.22461293	2.6802762	21	5 4.4	20.9
455915 2005 UX_{231}	17.0	X	74.16352	13.89806	219.65123	6.02242	0.1456968	0.23425179	2.6062382	21	8 28.5	20.6
455916 2005 UJ_{247}	17.3	X	108.24422	70.15745	358.64336	4.85406	0.1069827	0.21183959	2.7869636	21	3 4.6	21.1
455917 2005 UT_{253}	16.1	X	178.70775	347.33930	22.27961	6.66926	0.0840871	0.21467998	2.7623265	21	3 9.5	20.2
455918 2005 UP_{254}	16.8	X	210.76162	136.94928	212.15895	8.75447	0.0983163	0.21680249	2.7442681	21	3 12.7	21.1
455919 2005 UM_{257}	17.4	X	149.15187	355.64033	105.06572	1.84334	0.0306890	0.22476194	2.6790914	21	5 24.2	21.1
455920 2005 UJ_{260}	17.2	X	154.18707	357.42208	57.34416	7.59047	0.0540974	0.21699203	2.7426698	21	4 5.9	21.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
455921 2005 UE_{262}	17.2	X	170.21687	345.85969	58.74207	4.87609	0.0997973	0.21974538	2.7197118	21	4 12.6	21.3
455922 2005 UC_{268}	17.7	X	28.82336	287.64851	52.95499	4.79115	0.1944476	0.31277262	2.1493983	21	12 14.4	20.0
455923 2005 UB_{276}	17.3	X	198.37314	324.43102	19.34295	3.72322	0.1027357	0.21501890	2.7594231	21	2 25.8	21.5
455924 2005 UW_{285}	17.2	X	135.11867	332.03637	57.01977	10.20314	0.1520357	0.21122245	2.7923896	21	2 25.1	21.5
455925 2005 UY_{292}	17.2	X	141.65384	109.14934	283.02802	3.27346	0.0790183	0.21122551	2.7923625	21	2 21.2	21.2
455926 2005 UN_{294}	17.8	X	299.60406	11.14630	27.41076	6.74342	0.1272736	0.30272547	2.1966966	21	9 14.2	19.7
455927 2005 UC_{298}	17.0	X	193.59728	283.29300	57.58594	5.25309	0.1346389	0.21224681	2.7833977	21	2 19.9	21.4
455928 2005 UF_{298}	17.5	X	157.79702	322.24817	51.26070	5.26177	0.2099978	0.21181793	2.7871536	21	3 2.9	22.1
455929 2005 US_{311}	17.4	X	283.80799	280.27270	57.74879	3.23431	0.0975520	0.23154887	2.6264810	21	5 21.4	20.8
455930 2005 UW_{317}	17.1	X	166.38166	274.52595	35.15475	8.24849	0.0726019	0.20246144	2.8723752	21	—	—
455931 2005 UO_{326}	17.3	X	120.77954	263.07500	174.89442	4.11186	0.0490808	0.21436976	2.7649909	21	3 22.8	21.1
455932 2005 UB_{330}	17.2	X	108.55279	273.50040	131.40814	2.90178	0.0737292	0.20642227	2.8355133	21	1 29.5	20.9
455933 2005 UG_{339}	17.4	X	150.18307	134.24754	249.26060	7.72271	0.3025699	0.21335135	2.7737828	21	3 8.7	22.3
455934 2005 UX_{350}	16.9	X	181.28810	146.08662	227.04549	12.68110	0.1983760	0.21845046	2.7304490	21	3 14.2	21.7
455935 2005 UF_{365}	17.1	X	164.93084	185.78351	186.26370	4.97470	0.1693196	0.21326931	2.7744941	21	3 1.1	21.5
455936 2005 UZ_{373}	16.5	X	282.06514	21.35709	248.41266	11.22794	0.0782116	0.21333509	2.7739237	21	2 18.9	20.7
455937 2005 UT_{375}	16.4	X	93.06058	266.93519	243.23003	11.45366	0.0405258	0.22279573	2.6948306	21	5 17.9	19.8
455938 2005 UY_{377}	19.1	X	246.20220	318.80588	156.28579	3.36267	0.1542220	0.30403994	2.1903606	21	10 6.1	21.5
455939 2005 UM_{415}	16.7	X	142.11422	333.07342	69.43530	4.32767	0.0945586	0.21342338	2.7731587	21	3 11.6	20.7
455940 2005 US_{415}	17.1	X	1.66275	182.59976	76.94748	6.48305	0.2018927	0.22954323	2.6417581	21	5 31.7	19.3
455941 2005 UU_{422}	18.6	X	233.09801	243.66931	227.85699	4.58145	0.1252387	0.30107467	2.2047190	21	9 14.3	21.3
455942 2005 UC_{428}	18.4	X	55.39470	293.64348	25.05396	4.66636	0.2075327	0.31223203	2.1518785	21	12 18.5	21.3
455943 2005 UH_{428}	17.2	X	146.78233	133.73767	253.94052	4.59406	0.0506973	0.21026380	2.8008706	21	2 17.6	21.2
455944 2005 UU_{431}	16.8	X	231.21985	251.70635	65.95683	10.82903	0.1965648	0.21602963	2.7508094	21	2 26.9	21.6
455945 2005 UA_{433}	17.4	X	138.83632	346.21197	66.64428	5.55430	0.0612860	0.21292066	2.7775221	21	3 17.6	21.3
455946 2005 UX_{439}	16.6	X	147.18204	93.11252	325.13871	11.61713	0.1565545	0.21806021	2.7337057	21	4 3.3	21.1
455947 2005 US_{443}	16.7	X	209.25061	76.47927	252.18059	7.63393	0.1607236	0.21577180	2.7530003	21	2 13.8	21.4
455948 2005 UH_{455}	16.7	X	131.06700	80.09880	280.81412	10.91918	0.2370385	0.20897248	2.8123972	21	1 21.7	21.0
455949 2005 US_{479}	16.5	X	152.62930	182.16221	199.13063	17.56919	0.1324462	0.21247249	2.7814265	21	2 22.6	21.0
455950 2005 UL_{487}	17.0	X	145.75183	103.75646	293.50998	7.19208	0.2184220	0.21517188	2.7581150	21	3 14.9	21.6
455951 2005 UQ_{504}	16.0	X	293.17657	61.73238	135.29251	8.27021	0.2209006	0.18316210	3.0707583	21	—	—
455952 2005 UZ_{510}	18.3	X	262.82594	68.52289	46.61927	4.99957	0.0603277	0.30756867	2.1735751	21	11 15.3	20.4
455953 2005 UB_{516}	16.9	X	101.09998	19.53619	164.88737	14.60351	0.1074828	0.22886938	2.6469409	21	7 22.6	20.9
455954 2005 UA_{526}	17.4	X	143.71020	320.48940	85.24399	1.49538	0.0690021	0.21329172	2.7742998	21	3 13.0	21.3
455955 2005 UD_{526}	17.2	X	120.46711	228.73664	194.33084	3.52188	0.0876403	0.21192640	2.7862025	21	3 8.3	21.0
455956 2005 VE	20.8	X	236.02999	31.72799	223.37773	22.41593	0.2752974	0.89823432	1.0638399	21	—	—
455957 2005 VH_{16}	16.7	X	179.11701	4.00812	52.11165	14.15698	0.1353941	0.22264520	2.6960451	21	5 6.6	20.8
455958 2005 VX_{18}	17.4	X	80.49288	139.47409	259.59752	0.99822	0.0709675	0.20284676	2.8687365	21	—	—
455959 2005 VW_{21}	17.1	X	57.63564	298.90565	118.35986	3.06195	0.0536997	0.20111219	2.8852079	21	—	—
455960 2005 VP_{59}	17.2	X	92.86216	249.13236	131.94413	2.83968	0.0861606	0.20162439	2.8803196	21	—	—
455961 2005 VR_{76}	16.6	X	198.90878	98.37483	274.05965	13.51123	0.1761528	0.22230591	2.6987876	21	3 24.6	21.4
455962 2005 VQ_{89}	17.3	X	61.22513	322.06532	132.36405	4.64615	0.1529476	0.20502107	2.8484180	21	2 4.2	20.6
455963 2005 VY_{94}	18.0	X	335.33674	316.10331	102.85496	5.97299	0.0549329	0.31035339	2.1605537	21	12 22.3	19.9
455964 2005 VV_{98}	16.3	X	268.56883	358.84894	333.16059	12.12679	0.3014257	0.22849218	2.6498533	21	3 28.5	20.8
455965 2005 VU_{107}	18.6	X	345.32536	101.81466	282.59096	3.52152	0.0895982	0.30837242	2.1697966	21	11 19.2	20.6
455966 2005 VH_{108}	17.1	X	313.03330	216.73573	62.45798	6.05363	0.0875363	0.22270675	2.6955484	21	4 16.8	20.5
455967 2005 VA_{113}	17.3	X	152.48612	154.42524	234.87463	5.16267	0.0289813	0.21271328	2.7793270	21	2 23.2	21.3
455968 2005 VU_{114}	17.0	X	179.91386	39.28455	296.52677	4.49414	0.0780558	0.20827051	2.8187130	21	1 26.9	21.0
455969 2005 VD_{115}	16.8	X	165.22726	348.65701	35.96011	11.94061	0.1157763	0.21388212	2.7691920	21	3 18.8	21.1
455970 2005 VX_{115}	16.2	X	6.29371	324.49651	252.85563	11.08714	0.0957085	0.21818320	2.7326783	21	4 8.8	19.6
455971 2005 VP_{127}	17.4	X	304.48185	147.77160	133.97477	3.28547	0.1367210	0.22751115	2.6574652	21	3 30.5	20.8
455972 2005 WE_{15}	16.6	X	213.27068	268.65933	66.71597	12.64444	0.0539354	0.21192211	2.7862401	21	3 9.1	20.9
455973 2005 WH_{18}	17.0	X	68.39760	150.10335	251.31942	10.64974	0.1203210	0.19731412	2.9221148	21	—	—
455974 2005 WN_{22}	17.0	X	32.00609	101.86107	26.74717	2.66114	0.1991766	0.20328222	2.8646382	21	1 29.7	19.7
455975 2005 WT_{23}	17.3	X	169.05512	343.81619	33.74230	3.47553	0.1550509	0.21317786	2.7752875	21	3 12.8	21.7
455976 2005 WP_{25}	18.8	X	295.83662	80.08971	288.75437	2.77592	0.2016223	0.29744376	2.2226247	21	7 3.5	21.1
455977 2005 WW_{32}	17.0	X	184.58465	101.77294	261.89245	5.51035	0.0714716	0.21128125	2.7918714	21	3 3.2	21.3
455978 2005 WT_{45}	16.9	X	73.63621	221.20452	250.84154	8.90708	0.0845294	0.20906326	2.8115830	21	3 4.9	20.7
455979 2005 WK_{66}	17.3	X	131.47340	322.25739	74.88883	6.04348	0.1653233	0.20905139	2.8116894	21	3 2.8	21.5
455980 2005 WJ_{70}	17.4	X	162.93545	113.15159	243.34441	3.67950	0.1738437	0.20937491	2.8087923	21	2 9.2	21.9
455981 2005 WE_{82}	17.8	X	263.29718	357.63157	54.58130	5.32410	0.1279203	0.29647181	2.2274798	21	8 3.5	20.5
455982 2005 WH_{101}	16.8	X	123.96297	342.92769	72.27803	7.83200	0.1611853	0.20974095	2.8055234	21	3 17.5	21.0
455983 2005 WC_{108}	17.3	X	276.05119	337.71011	78.73719	8.64027	0.0907857	0.29993419	2.2103043	21	9 8.7	19.8
455984 2005 WU_{108}	16.8	X	173.49699	279.24104	65.91282	7.03432	0.3048441	0.21380640	2.7698457	21	2 15.7	21.8
455985 2005 WW_{108}	17.4	X	146.01390	344.40030	60.28264	8.92767	0.2231616	0.21528760	2.7571266	21	4 1.0	21.9
455986 2005 WH_{119}	16.4	X	88.99973	228.35865	246.34917	14.62017	0.1281197	0.21291909	2.7775357	21	4 4.9	20.4
455987 2005 WK_{124}	17.5	X	190.77784	312.85863	52.80550	3.19389	0.1225144	0.21665777	2.7454901	21	3 17.3	21.7
455988 2005 WK_{127}	16.6	X	208.97796	330.04178	64.22269	12.17939	0.0477838	0.22214492	2.7000913	21	5 11.6	20.4
455989 2005 WL_{152}	17.1	X	85.39258	69.72465	269.23777	6.52773	0.0752777	0.25326406	2.4741176	21	—	—
455990 2005 WT_{157}	17.7	X	331.20503	275.55609	94.86299	7.58886	0.1855436	0.29905524	2.2146330	21	10 5.2	19.2
455991 2005 WD_{162}	16.6	X	94.18102	294.92487	89.23696	4.03162	0.1577465	0.19967433	2.8990424	21	—	—
455992 2005 WM_{182}	16.7	X	50.09310	309.30562	90.41047	7.56235	0.2318409	0.19556745	2.9394879	21	—	—
455993 2005 WN_{189}	18.4	X	281.69651	11.66166	72.84879	3.20053	0.1183052	0.30259154	2.1973447	21	10 23.3	20.3
455994 2005 XU_{1}	17.5	X	118.65261	165.07677	227.43575	7.45758	0.2301367	0.20914446	2.8108552	21	2 13.4	21.8
455995 2005 XX_{29}	18.5	X	311.13541	298.92952	113.97286	4.33524	0.1342317	0.30465201	2.1874259	21	10 30.8	20.2
455996 2005 XE_{67}	16.8	X	110.50767	315.53897	50.22982	2.82276	0.0700551	0.19864346	2.9090635	21	—	—
455997 2005 XG_{68}	16.8	X	119.46291	44.53898	54.48147	7.02519	0.0137520	0.21527966	2.7571944	21	4 14.1	20.6
455998 2005 XF_{77}	16.7	X	45.02342	232.97806	240.28523	8.33362	0.2395023	0.19962686	2.8995019	21	2 4.3	19.6
455999 2005 XA_{84}	15.7	X	79.04373	207.53251	244.12573	16.00771	0.0452238	0.20693964	2.8307852	21	2 7.4	19.8
456000 2005 XA_{109}	17.1	X	83.95761	239.39851	229.63978	3.52173	0.0207558	0.21129344	2.7917641	21	3 9.7	20.8