Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
484001 2006 DD_3	17.9	X	67.40981	355.02742	157.05596	4.97351	0.1699715	0.26894240	2.3770037	21	4 30.7	20.2
484002 2006 DD_5	16.7	X	277.91337	34.98914	157.74768	6.11423	0.0634865	0.18274723	3.0754040	21	—	—
484003 2006 DS_{11}	16.9	X	276.64691	20.90758	149.33360	1.56726	0.1242434	0.18314191	3.0709841	21	—	—
484004 2006 DW_{19}	18.5	X	35.89283	135.14029	19.23590	1.88948	0.1171857	0.26340265	2.4102159	21	2 26.0	20.6
484005 2006 DW_{25}	18.1	X	62.46160	0.77657	155.89354	5.20987	0.1670096	0.26740240	2.3861213	21	4 28.4	20.4
484006 2006 DU_{28}	16.5	X	226.70644	236.45409	0.77719	9.74974	0.1484706	0.17752092	3.1354727	21	—	—
484007 2006 DW_{37}	16.4	X	286.42164	115.21119	1.15382	13.52819	0.2494946	0.17360798	3.1824109	21	10 24.9	20.5
484008 2006 DG_{38}	16.4	X	246.98228	39.38387	149.15259	18.05762	0.1733353	0.17776276	3.1326282	21	12 18.9	21.2
484009 2006 DY_{44}	15.9	X	116.85504	318.35076	4.22768	8.77385	0.1918530	0.24034493	2.5620017	21	—	—
484010 2006 DQ_{48}	15.7	X	285.67568	175.54737	356.35234	16.64081	0.1766479	0.18022206	3.1040646	21	—	—
484011 2006 DB_{49}	16.4	X	17.99222	293.10510	160.61056	16.41164	0.1172543	0.18540307	3.0459640	21	—	—
484012 2006 DL_{52}	16.3	X	278.64711	353.59235	148.23206	10.18341	0.0450101	0.17458397	3.1705393	21	12 17.9	20.8
484013 2006 DU_{58}	18.3	X	34.57057	256.32202	262.80732	0.41528	0.1142586	0.26093895	2.4253632	21	3 2.1	20.6
484014 2006 DU_{65}	17.5	X	199.12314	338.66499	160.62984	23.56820	0.0530680	0.35307945	1.9825360	21	9 30.3	19.8
484015 2006 DN_{75}	16.6	X	140.41611	326.90422	339.16996	14.49320	0.0488299	0.18047936	3.1011137	21	—	—
484016 2006 DK_{103}	17.0	X	271.89474	36.19697	163.31989	11.20685	0.1679165	0.18080846	3.0973495	21	—	—
484017 2006 DA_{106}	17.7	X	149.81700	50.42847	355.96484	8.46872	0.2549692	0.26654675	2.3912251	21	3 30.3	21.5
484018 2006 DN_{107}	18.0	X	38.99892	32.44123	170.93021	3.16831	0.1346623	0.26818193	2.3814952	21	5 19.8	20.1
484019 2006 DF_{108}	16.1	X	351.74867	124.99461	349.66079	17.92624	0.0545136	0.18120932	3.0927800	21	—	—
484020 2006 DF_{118}	18.0	X	6.53440	229.00594	4.00476	6.51739	0.1315306	0.26586815	2.3952923	21	4 26.1	20.1
484021 2006 DL_{129}	17.8	X	340.66854	170.94525	60.28287	3.33192	0.1716791	0.26274184	2.4142555	21	3 4.2	20.4
484022 2006 DD_{131}	16.4	X	315.19439	32.97432	133.57066	10.89297	0.0390783	0.18479467	3.0526459	21	—	—
484023 2006 DE_{140}	16.6	X	220.46614	225.96677	16.21256	10.26159	0.1788788	0.17730366	3.1380335	21	—	—
484024 2006 DA_{143}	18.2	X	112.60802	70.28837	26.46180	3.66960	0.0902345	0.26631372	2.3926198	21	4 5.8	21.3
484025 2006 DH_{145}	16.6	X	200.30335	144.27933	89.94021	1.75081	0.1426364	0.17359029	3.1826272	21	12 25.3	21.5
484026 2006 DL_{164}	16.4	X	244.13607	228.59087	8.84977	8.63287	0.1356047	0.18121228	3.0927463	21	—	—
484027 2006 DX_{175}	16.4	X	272.18955	314.35663	152.01601	11.92931	0.2499164	0.17208524	3.2011570	21	9 30.2	20.9
484028 2006 DB_{176}	18.2	X	108.85395	43.56465	65.83318	2.24332	0.1371354	0.26849712	2.3796311	21	4 25.6	21.3
484029 2006 DR_{196}	15.8	X	243.31390	99.28833	144.40655	20.38428	0.2314619	0.18246659	3.0785567	21	—	—
484030 2006 DO_{197}	16.1	X	276.12858	223.27887	328.89866	29.15290	0.3117213	0.17942986	3.1131944	21	—	—
484031 2006 DE_{202}	15.9	X	304.45467	307.65230	134.69371	17.14496	0.1839065	0.17413116	3.1760334	21	10 31.7	20.0
484032 2006 DE_{206}	17.6	X	3.06183	230.81004	331.70758	5.98057	0.0512825	0.26322032	2.4113289	21	3 12.1	20.4
484033 2006 DU_{206}	18.2	X	42.50448	236.53972	317.50134	1.99293	0.1293360	0.26721847	2.3872161	21	5 9.5	20.4
484034 2006 DG_{209}	16.6	X	277.81874	154.22849	35.68139	5.84323	0.1541552	0.17935808	3.1140249	21	—	—
484035 2006 DA_{218}	16.9	X	170.28691	329.75290	276.35314	1.69465	0.0712714	0.17054594	3.2203899	21	12 13.7	21.7
484036 2006 DB_{218}	16.5	X	203.49499	222.37514	14.96834	9.42189	0.0543319	0.17453517	3.1711303	21	—	—
484037 2006 EJ_5	17.5	X	4.77114	212.97987	4.02527	6.20710	0.1605891	0.26491718	2.4010210	21	3 27.8	19.3
484038 2006 EN_{24}	16.7	X	95.30400	38.19057	336.91916	7.95726	0.0014460	0.18387501	3.0628160	21	—	—
484039 2006 EC_{26}	14.0	X	169.83144	124.35748	326.77064	11.56141	0.0301783	0.08340018	5.1882959	21	6 10.1	21.1
484040 2006 EE_{27}	16.2	X	225.15996	94.83060	165.42727	25.58751	0.2256515	0.18100598	3.0950959	21	—	—
484041 2006 EQ_{33}	16.2	X	309.23763	146.89830	20.93863	12.41415	0.1965343	0.18320690	3.0702577	21	—	—
484042 2006 EB_{37}	17.1	X	249.01810	146.00749	58.84756	2.03903	0.1265757	0.17712608	3.1401305	21	—	—
484043 2006 EV_{46}	13.4	X	325.41708	151.41245	153.91125	30.91541	0.0148345	0.08355377	5.1819355	21	6 23.4	20.6
484044 2006 EP_{55}	16.7	X	290.22819	350.34220	205.99186	3.37806	0.2478554	0.18326391	3.0696210	21	—	—
484045 2006 ES_{65}	18.0	X	38.35139	9.67589	188.06883	5.00515	0.1465144	0.26618013	2.3934203	21	5 11.1	20.1
484046 2006 FJ_{20}	15.9	X	258.69673	146.57321	31.20737	19.87986	0.1171961	0.17076154	3.2176786	21	12 22.9	20.7
484047 2006 FL_{41}	18.4	X	61.38053	149.23647	29.96250	6.66788	0.2154527	0.26685755	2.3893681	21	6 5.8	20.8
484048 2006 FR_{44}	17.5	X	49.73933	175.15153	350.03804	6.19350	0.1774264	0.26538690	2.3981871	21	4 12.9	19.6
484049 2006 FQ_{54}	17.8	X	5.34683	251.73268	289.13347	0.57005	0.1240674	0.25564232	2.4587491	21	2 8.9	20.2
484050 2006 FU_{54}	17.8	X	333.12602	148.46946	92.64875	2.39937	0.1406533	0.25861053	2.4398993	21	3 11.2	20.4
484051 2006 GF_6	16.1	X	253.76828	198.06206	22.52162	29.20058	0.1647829	0.17817308	3.1278169	21	—	—
484052 2006 GM_{24}	17.8	X	347.13768	173.98825	49.69198	2.17604	0.1298149	0.25908575	2.4369149	21	3 10.8	20.3
484053 2006 GH_{34}	16.2	X	242.02741	75.84483	170.30375	14.73165	0.2725583	0.17764136	3.1340554	21	—	—
484054 2006 GG_{35}	16.0	X	241.57215	38.98248	186.65651	11.05400	0.1899517	0.17611155	3.1521786	21	—	—
484055 2006 GG_{45}	16.3	X	218.27574	228.19692	6.07082	13.86619	0.1498457	0.17439773	3.1727962	21	—	—
484056 2006 GH_{48}	17.6	X	354.49972	175.50827	26.23514	4.37486	0.0948679	0.25716371	2.4490422	21	2 25.6	20.2
484057 2006 GK_{48}	18.0	X	46.25016	311.43066	236.34239	0.64968	0.1180984	0.26454837	2.4032520	21	5 6.8	20.1
484058 2006 GT_{54}	17.7	X	331.54178	75.80673	175.62598	1.40978	0.1326197	0.25850988	2.4405326	21	3 23.3	20.4
484059 2006 GV_{54}	17.9	X	10.59180	120.21477	54.98339	3.12396	0.1462325	0.25777227	2.4451861	21	2 8.9	20.2
484060 2006 HZ	17.7	X	97.91277	154.76728	30.29913	2.41553	0.1836732	0.27420465	2.3464943	21	8 2.6	21.0
484061 2006 HX_8	17.1	X	276.82391	344.40807	4.93482	12.04034	0.0989898	0.27161841	2.3613657	21	5 21.2	20.4
484062 2006 HZ_{14}	16.2	X	261.56152	1.25644	207.97909	10.16487	0.1666253	0.17624438	3.1505946	21	—	—
484063 2006 HV_{44}	15.6	X	153.55398	292.81560	19.61910	26.41461	0.2631613	0.17237466	3.1975728	21	—	—
484064 2006 HG_{48}	16.4	X	216.30867	135.54801	115.59243	3.74888	0.1746840	0.17297914	3.1901190	21	—	—
484065 2006 HL_{54}	16.0	X	249.46196	178.87340	13.97752	8.60313	0.1714811	0.17376240	3.1805253	21	12 24.6	20.6
484066 2006 HU_{114}	18.0	X	17.59665	45.91279	134.40270	1.81915	0.1279805	0.25785717	2.4446494	21	3 2.4	20.3
484067 2006 HH_{154}	17.8	X	326.95852	105.00189	126.07792	3.77201	0.1357995	0.25442598	2.4665793	21	2 16.9	20.6
484068 2006 JE_8	17.5	X	352.42759	38.58878	213.69701	5.20885	0.1782018	0.26216682	2.4177844	21	4 25.4	19.7
484069 2006 JV_9	16.9	X	270.32024	192.33314	359.81331	0.84558	0.1526979	0.17356399	3.1829487	21	—	—
484070 2006 JT_{27}	18.1	X	332.69311	156.48678	77.52214	3.18872	0.1729776	0.25653746	2.4530262	21	2 24.0	21.0
484071 2006 JQ_{81}	17.7	X	354.96682	162.45863	79.35943	3.47916	0.1468210	0.26022086	2.4298230	21	4 19.7	19.9
484072 2006 KY_{12}	16.3	X	235.95837	77.09566	193.81908	23.11406	0.2903547	0.17677876	3.1442422	21	1 2.8	22.3
484073 2006 KM_{20}	17.3	X	125.02799	140.30433	94.52313	17.74826	0.0811812	0.34791724	2.0020984	21	11 14.7	20.1
484074 2006 KN_{38}	16.3	X	246.60342	78.39444	165.62448	25.39571	0.3546158	0.17437525	3.1730688	21	—	—
484075 2006 KX_{43}	15.6	X	233.44928	210.06471	65.57451	26.25391	0.2580705	0.17538695	3.1608547	21	1 9.3	21.4
484076 2006 KW_{47}	17.9	X	305.40275	181.66598	103.08916	3.64756	0.1913046	0.25700432	2.4500546	21	3 23.9	21.1
484077 2006 KD_{76}	15.8	X	184.94945	147.22010	107.04709	20.40462	0.2876774	0.16625519	3.2755626	21	12 26.7	21.6
484078 2006 KO_{77}	16.7	X	276.35935	36.65831	153.60048	4.59163	0.1378801	0.17344161	3.1844458	21	—	—
484079 2006 KS_{83}	16.3	X	291.77185	24.14126	123.66824	11.21270	0.0701216	0.17114764	3.2128376	21	—	—
484080 2006 KO_{107}	17.9	X	0.18203	203.98586	34.60820	6.98694	0.1202364	0.26299281	2.4127193	21	4 25.4	20.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
484081 2006 OW_4	16.4	X	217.77250	324.86973	321.47072	32.28153	0.2333492	0.23322651	2.6138707	21	1 12.6	21.3
484082 2006 PY_{15}	16.5	X	213.98091	325.27861	333.07271	32.16377	0.1954997	0.23441964	2.6049940	21	1 25.2	21.3
484083 2006 PL_{21}	17.4	X	255.04619	311.29940	329.98223	8.72609	0.2102831	0.24053852	2.5606268	21	1 27.5	21.6
484084 2006 QS_5	16.5	X	69.58126	19.29224	352.59239	8.68252	0.3233036	0.21541897	2.7560055	21	—	—
484085 2006 QT_5	16.6	X	213.75929	224.32804	116.08737	15.16238	0.1690639	0.23942686	2.5685467	21	3 8.8	21.0
484086 2006 QB_7	17.0	X	232.03744	318.14460	341.94565	13.62907	0.1897243	0.23665548	2.5885606	21	2 2.9	21.4
484087 2006 QY_{33}	17.0	X	54.64703	58.22544	317.59439	8.00087	0.2807139	0.21279162	2.7786448	21	—	—
484088 2006 QO_{45}	16.9	X	134.67579	41.27948	334.75899	14.19789	0.1564983	0.22874069	2.6479336	21	2 4.1	20.8
484089 2006 QZ_{47}	16.6	X	213.03286	17.49927	311.34743	13.55225	0.1108339	0.23810797	2.5780229	21	2 15.6	20.5
484090 2006 QF_{70}	17.1	X	53.64875	100.11790	341.89740	10.68474	0.1002251	0.22547337	2.6734530	21	—	—
484091 2006 QB_{115}	16.5	X	221.76294	11.74348	299.46316	13.91576	0.1556786	0.23608829	2.5927049	21	2 2.9	20.8
484092 2006 QB_{164}	16.6	X	204.59528	330.53355	344.02497	15.65945	0.1517967	0.23038922	2.6352871	21	1 29.8	21.0
484093 2006 RA_2	16.6	X	27.42496	36.73096	6.14403	8.60347	0.2945020	0.20997375	2.8034493	21	—	—
484094 2006 RT_{11}	17.1	X	107.13471	207.05718	179.41185	14.81925	0.1917375	0.22432488	2.6825702	21	1 15.9	20.9
484095 2006 RU_{20}	16.9	X	5.30961	229.04570	192.43845	7.46257	0.4522815	0.20425683	2.8555186	21	—	—
484096 2006 RE_{36}	18.0	X	174.53776	14.59490	20.88766	8.61072	0.2996513	0.30110688	2.2045618	21	4 7.2	21.6
484097 2006 RL_{54}	17.0	X	193.10848	262.25211	25.12478	12.43152	0.1698905	0.22276843	2.6950508	21	—	—
484098 2006 RL_{59}	17.1	X	86.46817	210.22004	185.70560	10.09365	0.1513063	0.21912527	2.7248404	21	—	—
484099 2006 RR_{80}	17.3	X	39.31543	47.64161	5.81099	4.56203	0.1667153	0.21415471	2.7668416	21	—	—
484100 2006 RM_{82}	17.5	X	97.60418	27.20278	357.41004	4.95579	0.1232823	0.22053788	2.7131923	21	—	—
484101 2006 RH_{84}	17.3	X	76.21988	34.43290	2.03165	9.36604	0.1585834	0.21784399	2.7355143	21	—	—
484102 2006 RD_{88}	16.9	X	217.14368	297.23580	8.04962	13.33616	0.1807547	0.23170940	2.6252678	21	1 29.9	21.5
484103 2006 RM_{93}	17.2	X	19.07024	65.70813	359.50036	8.92128	0.2227079	0.20971998	2.8057104	21	—	—
484104 2006 RJ_{115}	17.2	X	170.92729	312.60867	8.47283	5.11441	0.0481004	0.22330756	2.6907113	21	—	—
484105 2006 RL_{122}	17.8	X	106.45089	43.28473	331.20695	1.66048	0.1310042	0.22200023	2.7012644	21	—	—
484106 2006 SC_3	17.0	X	193.42214	42.31730	285.93780	11.84204	0.2448182	0.23216448	2.6218361	21	2 1.0	21.7
484107 2006 SK_{11}	16.9	X	88.11247	0.22764	24.16701	10.51054	0.3059070	0.21823997	2.7322044	21	1 8.8	20.1
484108 2006 SK_{25}	17.1	X	103.82188	26.58589	352.73647	13.55610	0.1667345	0.22176505	2.7031739	21	1 3.4	20.8
484109 2006 SX_{39}	17.2	X	151.54068	219.25814	118.93909	2.51080	0.0898236	0.22473076	2.6793392	21	—	—
484110 2006 SE_{40}	17.3	X	40.49909	48.06779	6.73481	13.02776	0.2460855	0.21387310	2.7692698	21	—	—
484111 2006 SU_{41}	17.9	X	41.08663	359.38526	36.21585	6.10369	0.3289243	0.21008422	2.8024665	21	—	—
484112 2006 SM_{120}	17.2	X	54.44323	236.57823	163.49502	16.47687	0.2782763	0.21290145	2.7776891	21	—	—
484113 2006 SS_{145}	17.0	X	113.81978	17.56992	8.59531	3.17792	0.1020095	0.22329244	2.6908328	21	1 14.0	20.6
484114 2006 SU_{149}	16.9	X	104.94740	344.55808	355.43810	4.46227	0.1211397	0.21386217	2.7693642	21	—	—
484115 2006 SY_{151}	17.5	X	53.24054	259.49479	198.17245	21.63322	0.0435581	0.22441354	2.6818635	21	1 10.0	21.5
484116 2006 SL_{157}	17.0	X	72.09790	47.51238	0.57471	8.93643	0.1923683	0.21901100	2.7257882	21	—	—
484117 2006 SS_{206}	17.5	X	49.47293	178.47019	203.00914	0.77531	0.2194246	0.20947055	2.8079372	21	—	—
484118 2006 SV_{206}	17.3	X	42.72918	239.68519	200.64881	6.06461	0.0389178	0.21839663	2.7308977	21	—	—
484119 2006 SA_{228}	17.4	X	47.48124	132.17808	330.59261	6.05974	0.0541584	0.22536741	2.6742909	21	1 13.4	20.7
484120 2006 SN_{249}	16.8	X	330.88434	200.05435	6.42950	13.46221	0.1903221	0.23142867	2.6273904	21	1 21.1	20.4
484121 2006 SN_{250}	17.4	X	197.96865	322.41608	337.46257	1.80033	0.0542532	0.22416209	2.6838687	21	—	—
484122 2006 SJ_{260}	17.6	X	26.88585	187.69368	224.69312	2.48269	0.1730525	0.20994014	2.8037486	21	—	—
484123 2006 SW_{264}	17.3	X	104.21891	145.00422	236.67118	7.48144	0.1690285	0.21932590	2.7231784	21	1 4.6	20.8
484124 2006 SR_{267}	17.0	X	65.33054	156.32883	271.48324	3.39720	0.0771171	0.21909066	2.7251273	21	—	—
484125 2006 SJ_{286}	16.7	X	243.75158	262.22057	29.24154	17.18471	0.2333116	0.23596667	2.5935956	21	2 4.5	21.5
484126 2006 SM_{292}	17.3	X	100.29427	92.66373	299.89973	3.11262	0.1571369	0.22258920	2.6964973	21	1 11.6	20.6
484127 2006 SV_{292}	17.4	X	165.24502	84.36888	263.85391	2.82235	0.0970720	0.22848059	2.6499429	21	1 24.2	21.3
484128 2006 SB_{297}	17.4	X	209.58610	110.63510	175.27695	6.05352	0.0278422	0.22325064	2.6911686	21	—	—
484129 2006 SU_{310}	17.3	X	32.29929	102.86447	338.82261	4.43172	0.1442211	0.21623668	2.7490532	21	—	—
484130 2006 SZ_{316}	17.4	X	220.59251	239.20244	57.99521	3.45535	0.1776834	0.22976068	2.6400911	21	1 19.6	21.7
484131 2006 SB_{318}	18.4	X	275.93895	265.81170	84.07368	2.71520	0.1526373	0.31496786	2.1393995	21	5 14.4	21.1
484132 2006 SS_{328}	17.5	X	127.38549	228.75852	138.92084	2.52976	0.0921717	0.22192817	2.7018492	21	1 5.9	21.3
484133 2006 SB_{347}	17.4	X	80.94123	15.95480	10.30198	5.03375	0.1669642	0.21606227	2.7505323	21	—	—
484134 2006 SP_{353}	17.0	X	221.66532	282.50758	33.80737	11.97136	0.1873941	0.23287840	2.6164749	21	2 16.2	21.6
484135 2006 SB_{379}	17.0	X	308.56772	104.20411	154.68024	15.02352	0.0887361	0.23384851	2.6092337	21	3 12.4	20.4
484136 2006 SR_{396}	17.3	X	62.11818	145.61705	247.01614	3.47271	0.0815568	0.21533214	2.7567464	21	—	—
484137 2006 SE_{398}	16.7	X	294.24324	69.35528	60.24090	11.70169	0.1010246	0.20115853	2.8847648	21	12 22.9	20.3
484138 2006 SM_{401}	17.6	X	59.88614	350.72754	62.12654	5.94656	0.1560784	0.21256195	2.7806460	21	—	—
484139 2006 SO_{408}	17.1	X	78.27605	56.45214	28.59546	22.23879	0.0541748	0.22346354	2.6894590	21	2 14.8	21.1
484140 2006 TO_5	18.5	X	184.36604	61.14728	359.22702	6.09066	0.1353492	0.30596735	2.1811523	21	5 9.7	21.7
484141 2006 TP_{15}	17.0	X	145.06366	98.79007	260.52784	1.43870	0.1152908	0.22402445	2.6849679	21	1 18.9	20.7
484142 2006 TH_{23}	16.5	X	65.67037	47.28018	46.08180	11.81823	0.0409507	0.22281711	2.6946583	21	1 29.8	20.2
484143 2006 TY_{29}	18.0	X	218.81117	198.91275	199.25095	4.86727	0.1831045	0.30964220	2.1638606	21	5 16.2	21.2
484144 2006 TJ_{41}	17.2	X	142.39006	339.79629	1.78435	1.60756	0.0923866	0.21854031	2.7297006	21	—	—
484145 2006 TC_{42}	17.0	X	153.56954	345.80616	37.78604	12.26277	0.0611658	0.22665809	2.6641289	21	2 27.5	21.0
484146 2006 TL_{59}	17.4	X	23.05176	198.99517	243.52112	7.05847	0.1977453	0.21101295	2.7942375	21	—	—
484147 2006 TS_{73}	17.4	X	19.32810	235.37130	205.01950	12.59560	0.2281449	0.20989534	2.8041475	21	—	—
484148 2006 TP_{75}	16.7	X	94.57748	325.36302	55.59123	10.71036	0.1836384	0.21709299	2.7418195	21	—	—
484149 2006 TW_{85}	17.4	X	69.52950	134.76967	242.88819	6.96878	0.2379209	0.21139482	2.7908714	21	—	—
484150 2006 TU_{95}	17.4	X	40.90024	11.23531	30.99920	3.87631	0.0964254	0.20962440	2.8065632	21	—	—
484151 2006 TK_{100}	17.4	X	59.21406	178.43848	225.27080	7.55319	0.2285107	0.21321667	2.7749507	21	—	—
484152 2006 TN_{125}	17.6	X	117.02902	108.00146	267.75718	4.76266	0.0961477	0.21932901	2.7231527	21	1 4.1	21.3
484153 2006 UO_2	17.1	X	100.15052	103.89896	267.93244	3.26036	0.0710801	0.21704650	2.7422110	21	—	—
484154 2006 UA_{12}	16.9	X	102.93052	347.51806	49.32967	7.64028	0.0809103	0.22033598	2.7148496	21	1 11.1	20.5
484155 2006 UT_{26}	16.9	X	221.17836	236.55275	28.91322	9.87617	0.0783800	0.21977267	2.7194866	21	—	—
484156 2006 UZ_{26}	16.3	X	72.88432	75.75920	217.03871	11.29058	0.0910863	0.19793754	2.9159759	21	11 2.3	20.2
484157 2006 UK_{30}	17.6	X	30.98786	48.12350	22.49251	9.39744	0.1411122	0.21270570	2.7793930	21	—	—
484158 2006 UX_{34}	16.3	X	190.91920	315.08526	34.11929	22.14288	0.0425172	0.22890746	2.6466474	21	3 4.3	20.5
484159 2006 UC_{39}	17.0	X	69.53922	3.59134	27.70806	4.74979	0.0718435	0.21306501	2.7762674	21	—	—
484160 2006 UV_{46}	17.4	X	49.04095	11.52801	57.68533	5.82866	0.1557982	0.21369986	2.7707663	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
484161 2006 UV_{63}	17.4	X	37.18729	19.60745	53.22927	3.28522	0.1717289	0.21381343	2.7697850	21	—	—
484162 2006 UF_{65}	16.9	X	73.95791	39.98567	3.58698	9.51574	0.1696477	0.21953007	2.7214898	21	—	—
484163 2006 UP_{107}	17.5	X	55.53629	281.62670	149.20566	3.56247	0.1492386	0.21547681	2.7555123	21	—	—
484164 2006 UX_{132}	17.1	X	49.40307	22.28484	51.12608	4.61903	0.0558915	0.21630777	2.7484508	21	—	—
484165 2006 US_{136}	17.1	X	44.09667	176.14627	234.78516	10.89718	0.2074655	0.21049174	2.7988482	21	—	—
484166 2006 UJ_{140}	17.2	X	53.12434	173.66345	254.57393	9.23186	0.1244688	0.21422707	2.7662185	21	—	—
484167 2006 UV_{143}	16.6	X	164.02092	310.82557	36.93904	13.84975	0.2721536	0.22602358	2.6691125	21	2 12.1	21.4
484168 2006 UM_{158}	16.9	X	166.58602	326.92468	35.49531	13.85307	0.1727802	0.22866313	2.6485324	21	2 25.4	21.4
484169 2006 UO_{171}	17.2	X	82.54892	225.73209	154.16591	5.00550	0.0869536	0.21339774	2.7733808	21	—	—
484170 2006 UF_{175}	16.6	X	101.43891	347.19907	27.05507	18.51401	0.1531957	0.21935743	2.7229175	21	—	—
484171 2006 UN_{186}	16.5	X	177.74776	331.36739	343.17563	15.43446	0.1997636	0.22540902	2.6739617	21	1 8.2	21.1
484172 2006 UD_{227}	17.2	X	110.05775	25.24734	354.62605	4.00256	0.1473568	0.22000883	2.7175402	21	1 8.5	20.7
484173 2006 UM_{227}	17.5	X	60.18701	296.66266	99.50448	4.39509	0.2429836	0.21305869	2.7763223	21	—	—
484174 2006 UM_{235}	17.5	X	72.09815	20.26732	17.67474	2.64741	0.0871260	0.21615593	2.7497378	21	—	—
484175 2006 UK_{247}	17.3	X	41.04701	62.97942	10.82745	2.45232	0.0776346	0.21535615	2.7565415	21	—	—
484176 2006 UE_{255}	17.2	X	141.94097	126.80890	219.48176	4.75832	0.1867342	0.22016956	2.7162175	21	1 8.3	21.2
484177 2006 UY_{261}	17.0	X	77.39549	181.03209	223.56384	10.68721	0.0619315	0.21528857	2.7571183	21	—	—
484178 2006 UA_{272}	18.4	X	213.36706	168.74528	224.07895	3.29691	0.1650064	0.30616041	2.1802353	21	5 3.8	21.7
484179 2006 UE_{272}	17.3	X	38.64890	206.35700	229.95903	8.73324	0.1697199	0.21152023	2.7897682	21	—	—
484180 2006 UY_{275}	18.6	X	160.48221	358.44274	56.37640	2.93282	0.1047586	0.30186488	2.2008697	21	4 7.1	21.3
484181 2006 UQ_{277}	17.0	X	62.16566	149.33242	240.24950	4.68510	0.0916741	0.21156923	2.7893374	21	—	—
484182 2006 UP_{286}	17.3	X	61.08783	9.91745	47.20680	7.29236	0.0163862	0.21524568	2.7574845	21	—	—
484183 2006 UP_{335}	16.8	X	130.45979	251.83676	91.35758	13.63040	0.3272887	0.22017788	2.7161490	21	1 10.2	21.0
484184 2006 UV_{358}	17.1	X	82.13488	161.39939	208.74212	3.83174	0.0805361	0.21182396	2.7871007	21	—	—
484185 2006 UO_{360}	17.2	X	87.82695	36.83098	341.01995	1.24199	0.0747130	0.21241775	2.7819043	21	—	—
484186 2006 VK_{1}	17.3	X	4.63217	230.33184	236.89652	6.62439	0.1871451	0.21058440	2.7980271	21	—	—
484187 2006 VX_{36}	16.9	X	88.27552	138.75829	245.49756	7.57548	0.1652391	0.21528127	2.7571807	21	—	—
484188 2006 VG_{41}	17.3	X	102.97640	292.53971	78.08160	1.50932	0.0837499	0.21427814	2.7657789	21	—	—
484189 2006 VO_{43}	17.2	X	0.10505	31.77079	43.58032	13.03425	0.1916777	0.20645843	2.8351822	21	—	—
484190 2006 VJ_{57}	17.4	X	54.25318	318.69803	85.35289	2.94640	0.1472056	0.20996159	2.8035576	21	—	—
484191 2006 VN_{76}	17.1	X	190.64284	70.27546	222.89384	11.35110	0.1729155	0.21800205	2.7341919	21	—	—
484192 2006 VN_{98}	16.7	X	47.33539	28.30724	40.42304	17.20068	0.1457694	0.21412045	2.7671367	21	—	—
484193 2006 VE_{103}	17.2	X	26.85066	148.25446	295.13612	3.63593	0.1410603	0.20874989	2.8143961	21	—	—
484194 2006 VJ_{111}	18.1	X	215.76481	343.93207	27.47336	4.33955	0.1496077	0.30265911	2.1970177	21	4 8.6	21.2
484195 2006 VA_{129}	16.8	X	282.04907	211.55621	49.98152	29.12932	0.0369761	0.22575052	2.6712644	21	3 8.4	21.2
484196 2006 VF_{129}	16.2	X	126.95936	336.56448	40.77588	15.55341	0.1935555	0.22068339	2.7119996	21	2 6.9	20.5
484197 2006 VU_{132}	18.5	X	19.49656	320.72683	142.43826	1.86039	0.1435419	0.27966578	2.3158468	21	—	—
484198 2006 VX_{154}	18.1	X	193.05964	273.14154	151.47582	4.74442	0.1698733	0.30744236	2.1741704	21	5 27.8	21.4
484199 2006 WS_{1}	19.8	X	6.83919	319.89708	312.13237	17.98879	0.4639105	0.73052750	1.2209888	21	1 23.7*	20.5
484200 2006 WD_{16}	17.2	X	60.66422	34.44285	20.01710	5.91448	0.0594938	0.21299731	2.7768557	21	—	—
484201 2006 WY_{19}	17.3	X	108.56302	250.32494	114.46444	4.43273	0.2064196	0.21635070	2.7480872	21	—	—
484202 2006 WL_{32}	17.3	X	57.90397	304.06303	111.25263	4.98416	0.0932001	0.21267221	2.7796848	21	—	—
484203 2006 WB_{179}	17.5	X	36.81332	49.46845	46.23420	3.73053	0.0341462	0.21621146	2.7492669	21	—	—
484204 2006 XT_{18}	15.6	X	106.58578	17.75297	39.60662	36.72270	0.1291833	0.22190148	2.7020658	21	3 16.3	20.1
484205 2006 XK_{23}	17.4	X	166.72697	223.76505	123.35507	7.08774	0.0533543	0.21934827	2.7229933	21	1 22.5	21.3
484206 2006 XO_{38}	18.5	X	179.49435	31.15531	42.07496	1.87617	0.1840038	0.30132225	2.2035111	21	5 25.4	22.0
484207 2007 AD_{30}	16.6	X	348.45202	289.75058	125.20125	15.04436	0.2652405	0.19234510	2.9722269	21	12 25.3	19.5
484208 2007 BT_{36}	17.0	X	347.07413	198.34725	312.74702	7.47897	0.1955898	0.20618452	2.8376926	21	—	—
484209 2007 BW_{80}	17.9	X	75.95069	273.75643	322.68403	5.08853	0.1362077	0.30644041	2.1789070	21	9 9.6	20.5
484210 2007 CC_{8}	18.5	X	93.11211	173.46459	326.77327	5.76495	0.0981241	0.29355186	2.2422265	21	5 5.5	21.2
484211 2007 CK_{8}	16.9	X	164.03768	279.68208	103.17670	6.33892	0.1782485	0.22101245	2.7093070	21	3 16.9	21.3
484212 2007 CN_{32}	16.9	X	71.25313	252.73567	145.53230	2.65150	0.0766103	0.20167720	2.8798167	21	—	—
484213 2007 CU_{35}	18.3	X	115.82495	209.52993	336.85423	1.50509	0.2268017	0.30145116	2.2028829	21	8 27.8	21.6
484214 2007 DA_{8}	18.7	X	160.79691	191.19222	249.36218	2.29599	0.1784653	0.29515648	2.2340926	21	5 17.3	21.9
484215 2007 DK_{48}	16.6	X	245.34844	258.77109	335.12309	13.30979	0.2276896	0.19322868	2.9631592	21	—	—
484216 2007 DR_{58}	19.0	X	49.00125	60.53589	164.72329	5.71974	0.2168253	0.29175371	2.2514301	21	7 26.2	21.0
484217 2007 DQ_{67}	18.6	X	132.00698	118.40955	2.28058	3.59495	0.0634066	0.29280594	2.2460329	21	5 28.5	21.3
484218 2007 DQ_{70}	14.0	X	308.44310	314.44351	353.76178	15.68479	0.0413758	0.08488342	5.1276786	21	5 27.5	20.9
484219 2007 DU_{89}	19.0	X	89.89782	158.63132	2.59837	2.92504	0.0816676	0.29234388	2.2483990	21	5 31.5	21.5
484220 2007 DK_{96}	18.2	X	146.73591	275.11526	344.12013	20.43210	0.0695668	0.38757665	1.8630778	21	—	—
484221 2007 DT_{98}	18.4	X	89.23688	164.13108	346.00188	5.23828	0.1715272	0.29098521	2.2553924	21	5 28.8	21.0
484222 2007 DP_{102}	18.5	X	235.05520	305.10979	168.25787	26.50974	0.1228258	0.38119194	1.8838236	21	10 4.7	20.4
484223 2007 DT_{102}	17.0	X	103.36441	154.69221	23.04038	26.51142	0.3064725	0.29611257	2.2292810	21	8 27.7	21.2
484224 2007 DY_{110}	17.3	X	310.65863	160.92343	347.95655	2.07763	0.1162992	0.19392493	2.9560626	21	—	—
484225 2007 DM_{115}	13.6	X	297.61612	327.39368	347.59679	30.68700	0.0821138	0.08313580	5.1992893	21	5 7.0	20.8
484226 2007 DD_{117}	16.2	X	217.02546	29.07635	157.79181	15.51955	0.1451040	0.18183042	3.0857331	21	11 21.2	21.2
484227 2007 EK_{29}	16.1	X	64.04811	1.62565	354.92488	12.50892	0.0525170	0.18325899	3.0696759	21	—	—
484228 2007 EG_{39}	17.8	X	25.14899	352.47967	3.39032	20.67734	0.1062260	0.38389644	1.8749657	21	—	—
484229 2007 EO_{54}	16.4	X	150.81015	351.28818	347.12722	11.54089	0.0481983	0.20186472	2.8780329	21	—	—
484230 2007 EW_{59}	17.0	X	234.08037	66.59461	179.40311	14.60879	0.2200915	0.19051209	2.9912613	21	—	—
484231 2007 EE_{68}	13.8	X	350.96302	279.34977	4.91958	13.45365	0.1090062	0.08474300	5.1333415	21	6 23.4	20.3
484232 2007 EK_{71}	18.6	X	145.07256	281.81548	164.04573	3.18637	0.1271647	0.29273357	2.2464031	21	5 4.9	21.7
484233 2007 ES_{92}	18.1	X	11.72126	290.58145	323.91504	5.52823	0.1472275	0.29324857	2.2437723	21	6 12.1	19.8
484234 2007 EL_{129}	17.1	X	239.31297	217.61942	353.70299	1.02171	0.0853459	0.18985592	2.9981495	21	—	—
484235 2007 EQ_{142}	17.1	X	303.26412	299.71661	203.49413	6.39803	0.1229074	0.18972854	2.9994913	21	—	—
484236 2007 EQ_{147}	16.8	X	97.92337	294.64530	78.77337	3.31272	0.0355780	0.19428364	2.9524229	21	—	—
484237 2007 EF_{149}	15.8	X	222.40502	128.32781	155.00066	11.94021	0.1129549	0.19792913	2.9160586	21	1 9.0	20.5
484238 2007 EK_{150}	17.8	X	320.64347	238.35975	15.49850	7.85724	0.0820328	0.28147861	2.3058928	21	3 16.3	20.5
484239 2007 EA_{153}	18.5	X	131.00811	88.76891	19.41578	7.39252	0.2083881	0.29190857	2.2506337	21	5 25.6	21.9
484240 2007 EQ_{172}	18.1	X	87.99485	139.04785	3.36195	8.99541	0.1249729	0.28594403	2.2818234	21	5 5.5	20.8

* The additional opposition: 11 17.1, $V = 21.1$

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
484241 2007 EL_{181}	16.5	X	204.64257	348.60414	201.58886	11.73416	0.1731392	0.17602266	3.1532398	21	11 7.9	21.6
484242 2007 EM_{190}	17.1	X	253.72620	23.72517	186.70450	11.28960	0.1391561	0.19123465	2.9837218	21	—	—
484243 2007 EK_{198}	18.1	X	110.78541	109.99024	43.11617	7.99800	0.1651174	0.29008150	2.2600742	21	7 1.4	21.2
484244 2007 EV_{211}	18.1	X	137.86800	145.83018	343.05149	3.23159	0.0595704	0.29501794	2.2347919	21	6 17.6	20.8
484245 2007 EG_{215}	17.9	X	88.38818	221.05130	330.40006	6.31076	0.1503702	0.29464573	2.2366736	21	7 26.9	20.5
484246 2007 FR_{1}	16.5	X	274.10843	153.86126	358.82315	12.92878	0.0724205	0.18520784	3.0481041	21	12 23.7	20.8
484247 2007 FL_{3}	17.1	X	155.77418	135.20595	153.91567	50.76559	0.1773499	0.38720774	1.8642609	21	—	—
484248 2007 FN_{40}	17.6	X	333.61786	47.89428	102.66063	14.38589	0.3635117	0.20040655	2.8919766	21	—	—
484249 2007 FY_{40}	14.2	X	101.03432	333.92123	192.28210	14.26589	0.1211864	0.08360138	5.1799682	21	6 30.9	21.4
484250 2007 FJ_{45}	17.4	X	285.22931	220.51280	333.91762	1.90953	0.1229376	0.19560467	2.9391150	21	—	—
484251 2007 FA_{46}	16.3	X	229.32655	207.59707	55.15704	18.88241	0.3132376	0.18765732	3.0215216	21	—	—
484252 2007 FH_{46}	16.7	X	197.28937	214.24295	25.32150	4.84036	0.1005831	0.18229864	3.0804471	21	—	—
484253 2007 FW_{46}	16.5	X	199.63056	248.48736	30.14568	11.08968	0.1560492	0.18630696	3.0361041	21	—	—
484254 2007 FN_{48}	14.2	X	220.64418	33.97618	11.21956	8.95627	0.0283295	0.08480854	5.1306966	21	6 12.2	21.2
484255 2007 GH_{25}	16.4	X	234.25283	69.96139	112.97393	16.64452	0.2970002	0.18239597	3.0793512	21	11 19.3	21.6
484256 2007 GE_{30}	16.0	X	199.63668	205.54412	46.21275	9.12095	0.2857094	0.18062685	3.0994253	21	—	—
484257 2007 GB_{43}	16.4	X	293.15533	119.48141	21.01220	13.12697	0.0317742	0.18371807	3.0645601	21	—	—
484258 2007 GN_{47}	16.9	X	228.81927	184.36735	66.06901	0.95679	0.2461413	0.18523641	3.0477908	21	—	—
484259 2007 GO_{48}	16.3	X	183.44787	213.56334	54.42673	10.25233	0.1919394	0.17954901	3.1118169	21	—	—
484260 2007 GT_{62}	17.0	X	245.45556	197.15484	15.45605	3.06519	0.0824193	0.18511528	3.0491201	21	—	—
484261 2007 GG_{77}	15.8	X	182.11430	239.01329	35.21036	18.20084	0.2604702	0.17997808	3.1068692	21	—	—
484262 2007 HO_{14}	18.2	X	0.84112	357.68757	237.71373	1.94159	0.1404465	0.27981220	2.3150389	21	4 16.8	19.9
484263 2007 HX_{53}	18.0	X	66.73938	146.93297	67.02717	4.88077	0.1072167	0.29162301	2.2521027	21	7 20.9	20.4
484264 2007 HE_{57}	15.9	X	240.18912	130.87870	106.85025	16.96073	0.2051294	0.18540128	3.0459836	21	—	—
484265 2007 HW_{58}	14.1	X	194.71167	347.80484	86.73323	12.88673	0.0709359	0.08169680	5.2601646	21	6 17.4	21.3
484266 2007 HM_{71}	16.9	X	245.84113	18.44273	180.60800	11.43703	0.1900726	0.18479545	3.0526373	21	12 26.9	21.5
484267 2007 HY_{79}	16.3	X	183.59784	179.81620	62.65807	12.76220	0.0856165	0.17701748	3.1414147	21	12 22.7	21.1
484268 2007 HJ_{84}	18.3	X	34.67721	38.76259	178.37756	2.28621	0.1528017	0.28467753	2.2885861	21	6 2.5	20.1
484269 2007 HP_{88}	18.0	X	67.18045	128.94353	73.05917	4.51072	0.2864471	0.28853292	2.2681537	21	8 4.4	20.7
484270 2007 HT_{93}	18.1	X	60.77381	53.82297	189.77732	7.08080	0.1422648	0.29650530	2.2273121	21	8 29.1	20.6
484271 2007 JB_{12}	16.3	X	249.57916	64.90411	156.07882	11.82659	0.2004437	0.18529752	3.0471206	21	—	—
484272 2007 JD_{17}	17.9	X	24.40162	43.93100	212.29961	4.60123	0.1487339	0.28637667	2.2795246	21	7 14.3	19.9
484273 2007 JQ_{17}	16.0	X	118.62441	246.21739	75.94305	10.91320	0.0914186	0.17705778	3.1409380	21	—	—
484274 2007 JF_{18}	16.6	X	240.67477	95.73896	142.33454	12.82521	0.1550463	0.18508084	3.0494984	21	—	—
484275 2007 JX_{21}	17.9	X	55.27159	148.38240	54.38865	3.88831	0.1074032	0.28493282	2.2872189	21	6 12.7	20.2
484276 2007 JZ_{25}	17.7	X	30.32614	139.14479	111.45037	6.19310	0.0530548	0.28699555	2.2762464	21	7 6.9	19.9
484277 2007 JA_{33}	17.6	X	37.42455	139.27519	121.28433	5.05407	0.1918297	0.28942446	2.2634934	21	8 28.0	19.6
484278 2007 JK_{36}	18.6	X	78.92335	35.33463	140.36255	3.23836	0.1613645	0.28578778	2.2826550	21	6 20.4	21.1
484279 2007 JL_{40}	17.2	X	140.65298	123.76535	195.33550	12.52671	0.3472920	0.24460198	2.5321887	21	—	—
484280 2007 LF_{6}	16.0	X	205.23074	108.34411	102.54590	28.63656	0.0573471	0.17411971	3.1761726	21	12 14.7	20.8
484281 2007 LF_{12}	18.2	X	5.55998	61.72524	169.30428	2.16009	0.1142627	0.27905029	2.3192509	21	4 23.1	20.3
484282 2007 MC_{5}	18.1	X	287.15661	148.10820	135.91465	10.39426	0.1504783	0.27058275	2.3673873	21	3 4.7	21.4
484283 2007 PP_{3}	17.3	X	329.72595	177.92667	118.98167	5.35100	0.2454558	0.27485349	2.3428000	21	5 8.1	19.4
484284 2007 PW_{15}	16.6	X	324.89304	277.54617	346.55374	21.25206	0.3053623	0.26877323	2.3780011	21	3 2.1	19.4
484285 2007 PK_{18}	17.3	X	326.82221	164.91344	135.79153	14.98822	0.2219040	0.27481556	2.3430156	21	5 16.6	19.9
484286 2007 PE_{39}	17.1	X	246.32143	263.39368	46.88248	1.88310	0.2821534	0.25878883	2.4387786	21	2 17.9	21.3
484287 2007 RC_{10}	15.8	X	203.83750	89.26752	183.06572	24.40348	0.3657577	0.17431246	3.1738307	21	—	—
484288 2007 RN_{28}	17.3	X	261.50908	337.83152	350.88023	15.00578	0.1824272	0.26398263	2.4066844	21	3 27.0	20.9
484289 2007 RA_{42}	17.6	X	151.11352	278.97076	72.69118	3.97187	0.1766917	0.24250828	2.5467423	21	1 20.6	21.3
484290 2007 RG_{51}	17.4	X	69.03888	210.89140	203.13023	12.08348	0.2527216	0.23432954	2.6056617	21	—	—
484291 2007 RJ_{52}	17.7	X	322.43261	11.56451	290.39761	4.41211	0.2357206	0.27055750	2.3675346	21	4 29.8	20.1
484292 2007 RA_{59}	17.4	X	291.39898	300.05056	331.34285	8.21098	0.1429453	0.25937177	2.4351231	21	2 21.7	20.8
484293 2007 RJ_{98}	17.9	X	104.82634	290.62928	93.72159	3.62644	0.1609993	0.23705871	2.5856244	21	1 4.2	21.0
484294 2007 RU_{154}	17.9	X	251.53097	347.00970	339.53354	3.17142	0.0332207	0.26011146	2.4305043	21	3 30.3	21.0
484295 2007 RX_{189}	17.9	X	63.78951	56.76908	12.52894	10.05033	0.1732599	0.23657483	2.5891489	21	—	—
484296 2007 RW_{255}	15.8	X	225.41099	228.12790	186.67210	10.26477	0.2929160	0.12336938	3.9963588	21	6 11.2	22.6
484297 2007 RR_{296}	17.5	X	103.14963	11.35956	13.02714	2.64064	0.2134731	0.23420656	2.6065737	21	1 11.3	20.6
484298 2007 RD_{297}	18.0	X	87.96797	338.32710	63.57553	3.11579	0.1345998	0.23766003	2.5812612	21	—	—
484299 2007 SF_{11}	16.7	X	83.31928	71.60370	327.17120	15.64694	0.3061389	0.23428330	2.6060045	21	1 16.9	19.4
484300 2007 SJ_{12}	16.7	X	34.44210	246.54232	138.66824	13.83436	0.2693731	0.22495483	2.6775597	21	—	—
484301 2007 TK_{2}	18.8	X	71.27935	27.85403	23.68321	17.17295	0.0818309	0.44849258	1.6903081	21	—	—
484302 2007 TZ_{4}	17.9	X	66.35939	37.05450	13.83469	4.33351	0.1956275	0.23174112	2.6250283	21	—	—
484303 2007 TS_{17}	17.0	X	45.22262	81.36155	23.92486	29.12029	0.3191457	0.23313086	2.6145857	21	2 8.7	19.6
484304 2007 TH_{74}	16.7	X	84.68083	11.85607	40.56788	15.52780	0.2658731	0.23363063	2.6108557	21	2 3.7	19.8
484305 2007 TX_{75}	18.4	X	75.54851	77.88419	18.13084	4.88405	0.2814841	0.23844995	2.5755574	21	3 17.0	20.9
484306 2007 TT_{84}	17.7	X	49.46411	214.85509	202.52730	13.63035	0.2741859	0.22749316	2.6576054	21	—	—
484307 2007 TJ_{85}	17.4	X	79.69681	255.07495	169.63366	3.14083	0.2519595	0.23537696	2.5979258	21	2 1.6	20.0
484308 2007 TG_{86}	17.6	X	124.52605	350.58409	40.03031	14.86547	0.1773663	0.23995709	2.5647615	21	2 16.3	21.5
484309 2007 TD_{93}	17.0	X	81.43047	189.62305	203.15236	13.95283	0.2498911	0.23149939	2.6268553	21	—	—
484310 2007 TO_{105}	18.0	X	71.46623	263.36586	134.63402	3.11581	0.2226846	0.23242903	2.6198463	21	—	—
484311 2007 TM_{107}	18.1	X	56.11012	65.97097	348.39070	4.34248	0.2595367	0.23259795	2.6185777	21	—	—
484312 2007 TM_{108}	17.0	X	60.16846	153.61335	216.07312	11.81127	0.2868309	0.22668889	2.6638876	21	—	—
484313 2007 TE_{112}	17.7	X	4.15177	168.12225	247.67726	6.48607	0.3095784	0.21972152	2.7199086	21	—	—
484314 2007 TF_{118}	17.9	X	58.41335	255.42497	185.47382	5.79450	0.3265160	0.23321078	2.6139883	21	1 19.2	19.5
484315 2007 TG_{119}	17.2	X	270.66844	229.52902	23.78338	15.22449	0.0571694	0.23963889	2.5670314	21	1 24.4	21.1
484316 2007 TO_{120}	17.6	X	102.91724	35.85818	19.36422	17.09310	0.1274219	0.24015524	2.5633506	21	2 13.9	21.1
484317 2007 TV_{120}	17.3	X	53.58611	234.04762	211.93293	13.00787	0.1459927	0.23418608	2.6067257	21	—	—
484318 2007 TV_{125}	17.5	X	109.22820	197.23629	205.59898	4.95031	0.2361500	0.23872923	2.5735483	21	2 12.7	21.0
484319 2007 TX_{141}	16.9	X	98.70532	356.12434	41.95982	15.62269	0.0519900	0.23562042	2.5961359	21	—	—
484320 2007 TX_{144}	17.1	X	45.90445	9.70531	14.17232	1.63723	0.2251693	0.22467819	2.6797572	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
484321 2007 TP_{226}	17.7	X	69.91687	26.06638	48.34571	4.18118	0.1176387	0.23620158	2.5918758	21	1 11.3	20.5
484322 2007 TW_{227}	17.7	X	162.78104	347.96137	21.57924	4.92562	0.0653971	0.24328451	2.5413223	21	2 13.9	21.3
484323 2007 TP_{228}	17.4	X	70.31376	31.90692	29.66727	9.01141	0.2097859	0.23328661	2.6134218	21	1 5.6	20.0
484324 2007 TL_{284}	17.7	X	310.54337	212.95819	67.26849	1.85748	0.1676177	0.26219293	2.4176239	21	3 26.7	20.8
484325 2007 TQ_{333}	17.7	X	44.87771	71.74599	28.16265	3.54252	0.1643171	0.23324643	2.6137219	21	1 4.2	20.2
484326 2007 TE_{342}	18.0	X	50.72905	11.99819	106.57437	4.16133	0.1631586	0.23918194	2.5702999	21	2 10.9	20.4
484327 2007 TN_{346}	17.8	X	35.66939	60.12429	32.69983	13.81247	0.1371549	0.23444644	2.6047954	21	—	—
484328 2007 TV_{362}	17.3	X	91.41025	0.04577	58.58987	9.67385	0.1214282	0.23506855	2.6001977	21	1 26.9	20.6
484329 2007 TM_{382}	17.1	X	257.40571	191.88309	75.67039	15.57527	0.0397222	0.23897354	2.5717939	21	1 25.9	20.9
484330 2007 TN_{382}	17.3	X	76.35464	290.53595	131.15567	5.86277	0.2394026	0.23279937	2.6170670	21	1 21.1	19.7
484331 2007 TU_{397}	17.0	X	336.78363	112.31736	15.36934	12.67683	0.2130154	0.22458293	2.6805149	21	—	—
484332 2007 TK_{426}	18.0	X	48.43061	329.39817	120.49672	2.16007	0.1354390	0.23508766	2.6000567	21	—	—
484333 2007 TO_{433}	17.6	X	41.97952	313.22854	95.17939	6.93697	0.2458197	0.22550999	2.6731635	21	—	—
484334 2007 TQ_{435}	17.5	X	78.58630	10.30198	22.30541	4.74731	0.1309550	0.22873001	2.6480161	21	—	—
484335 2007 TE_{436}	16.6	X	90.95296	322.51858	91.99300	14.37707	0.2486232	0.22970924	2.6404852	21	2 12.0	19.9
484336 2007 TH_{443}	17.9	X	75.21177	237.47870	160.22065	13.18312	0.2677547	0.23129246	2.6284218	21	—	—
484337 2007 UY_{6}	17.9	X	75.75041	18.84264	51.68855	5.73774	0.2253648	0.23644722	2.5900803	21	1 31.7	20.5
484338 2007 UK_{7}	17.5	X	78.83326	68.30776	307.68130	11.66958	0.2958384	0.22990309	2.6390008	21	—	—
484339 2007 UW_{33}	17.2	X	64.69779	202.40260	236.06115	12.75271	0.2268006	0.23413410	2.6071115	21	1 15.1	19.8
484340 2007 UH_{37}	17.2	X	71.85563	310.30790	68.56986	8.04290	0.3257730	0.22874203	2.6479233	21	—	—
484341 2007 UF_{42}	17.5	X	72.81255	101.09964	321.42940	3.47708	0.0887223	0.23393634	2.6085806	21	—	—
484342 2007 UL_{84}	17.5	X	107.80944	347.87258	51.98150	8.34963	0.1206418	0.23639783	2.5904411	21	1 25.0	20.9
484343 2007 UJ_{90}	17.6	X	64.83183	29.21324	34.04066	3.07668	0.1262088	0.23254254	2.6189936	21	—	—
484344 2007 UG_{94}	17.7	X	75.75205	38.96967	27.99815	7.04082	0.0411164	0.23591459	2.5939774	21	1 3.3	21.1
484345 2007 UR_{122}	17.2	X	41.18180	5.62611	55.17403	14.64700	0.2317290	0.22506579	2.6766796	21	—	—
484346 2007 UL_{128}	17.0	X	202.45197	263.35279	63.34974	10.84392	0.0769931	0.24116508	2.5561898	21	2 7.3	20.9
484347 2007 UC_{130}	16.9	X	49.44904	46.92081	51.77716	22.60070	0.0315733	0.23460485	2.6036228	21	1 7.3	20.6
484348 2007 UX_{139}	17.7	X	56.72351	197.56697	230.10440	9.44718	0.1863682	0.22981804	2.6396518	21	—	—
484349 2007 US_{141}	17.4	X	76.78203	22.62891	70.87948	8.34064	0.1063881	0.23731398	2.5837699	21	2 19.1	20.5
484350 2007 VW_{9}	17.7	X	78.57762	300.65346	125.50328	2.59840	0.2394085	0.23399038	2.6081789	21	1 31.7	20.2
484351 2007 VY_{38}	16.9	X	109.08864	248.67812	109.24638	6.63684	0.3594164	0.23254953	2.6189411	21	1 7.7	20.1
484352 2007 VC_{45}	17.5	X	280.32900	320.24127	324.52841	4.60949	0.1190477	0.25104997	2.4886430	21	3 1.7	21.0
484353 2007 VT_{48}	18.0	X	132.28379	36.52267	326.49689	3.30337	0.1885276	0.23621823	2.5917540	21	1 16.8	21.5
484354 2007 VW_{51}	18.3	X	96.21418	2.77716	25.71787	6.55893	0.2177536	0.23279088	2.6171307	21	1 7.9	21.3
484355 2007 VO_{59}	17.7	X	54.70541	144.24464	305.32487	2.66067	0.1346396	0.23214219	2.6220039	21	1 7.6	20.2
484356 2007 VE_{62}	17.6	X	42.92051	64.62692	26.47591	3.10736	0.1766536	0.22977022	2.6400180	21	—	—
484357 2007 VS_{73}	17.0	X	6.51190	270.54113	244.52444	14.68071	0.2417829	0.23062535	2.6334881	21	—	—
484358 2007 VU_{75}	17.7	X	39.40011	247.95621	220.00906	12.32819	0.2307309	0.23232012	2.6206650	21	1 1.2	20.0
484359 2007 VL_{83}	17.2	X	49.19007	358.03845	88.41687	16.51036	0.1618206	0.22573908	2.6713546	21	—	—
484360 2007 VC_{87}	17.3	X	57.36448	175.65591	241.55234	12.19965	0.2727686	0.22939172	2.6429212	21	—	—
484361 2007 VB_{92}	17.7	X	110.19787	230.02324	187.31434	8.71414	0.1531663	0.23909172	2.5709464	21	2 20.0	21.1
484362 2007 VS_{100}	17.9	X	43.46215	52.65634	17.34349	2.61033	0.1034521	0.22631719	2.6668036	21	—	—
484363 2007 VA_{101}	16.9	X	63.26354	188.14335	251.05007	12.26073	0.1945398	0.23149772	2.6268679	21	1 11.5	19.5
484364 2007 VY_{107}	17.5	X	117.42046	349.43691	50.05879	4.28882	0.1830612	0.23827319	2.5768310	21	2 14.7	21.0
484365 2007 VB_{113}	17.8	X	48.27520	208.94235	225.16994	1.58828	0.1945153	0.22852635	2.6495891	21	—	—
484366 2007 VG_{116}	17.3	X	337.93081	54.48240	120.66563	4.19497	0.1857334	0.23002525	2.6380663	21	—	—
484367 2007 VP_{145}	17.2	X	128.09158	125.32678	259.87071	10.90969	0.1958795	0.23725361	2.5842082	21	2 4.8	21.1
484368 2007 VW_{147}	17.8	X	42.05904	284.61494	181.09279	3.14660	0.2073354	0.23018677	2.6368321	21	1 7.1	19.9
484369 2007 VE_{149}	17.4	X	76.03661	296.83076	95.93444	3.51624	0.2167595	0.22996096	2.6385580	21	—	—
484370 2007 VF_{149}	17.4	X	63.98481	347.01407	64.81262	7.50027	0.2337888	0.23008089	2.6376410	21	—	—
484371 2007 VR_{199}	17.9	X	80.83268	214.93452	224.46250	4.19605	0.1050290	0.23867804	2.5739162	21	1 31.2	20.9
484372 2007 VQ_{212}	17.3	X	7.58967	31.66501	91.62481	6.06572	0.0937164	0.22966905	2.6407933	21	—	—
484373 2007 VS_{212}	17.1	X	22.39655	52.90494	68.06091	15.90402	0.0752531	0.23258935	2.6186422	21	—	—
484374 2007 VQ_{213}	17.5	X	75.54828	353.36748	86.40613	6.58776	0.2163518	0.23537230	2.5979602	21	2 12.6	20.2
484375 2007 VR_{252}	17.5	X	82.46209	357.85863	81.17248	6.16691	0.1967066	0.23683808	2.5872299	21	2 20.7	20.4
484376 2007 VT_{260}	16.8	X	344.12193	137.27872	34.41399	14.85395	0.0434382	0.23698560	2.5861561	21	1 12.7	20.4
484377 2007 VO_{264}	17.2	X	102.25512	329.23122	61.62734	11.08430	0.1371919	0.23230033	2.6208138	21	1 7.2	20.5
484378 2007 VH_{268}	17.5	X	68.38312	27.22423	63.42553	13.84978	0.1309878	0.23752976	2.5822049	21	2 5.3	20.6
484379 2007 VA_{273}	16.9	X	94.41595	2.30025	77.22153	6.65459	0.0533833	0.24060962	2.5601223	21	2 17.2	20.2
484380 2007 VE_{279}	17.4	X	124.28502	290.02723	52.14167	13.57948	0.2869882	0.23257930	2.6187177	21	—	—
484381 2007 VF_{281}	17.5	X	67.27250	173.48832	239.59232	12.72061	0.2493163	0.22979543	2.6398249	21	—	—
484382 2007 VQ_{282}	16.4	X	272.97991	338.20332	68.51425	6.56053	0.1732345	0.12373336	3.9885176	21	7 26.8	22.1
484383 2007 VN_{294}	18.8	X	75.87863	54.88848	348.56636	3.88693	0.2834763	0.23146878	2.6270869	21	1 1.9	21.0
484384 2007 VC_{297}	16.8	X	73.76249	252.28472	84.76567	8.46327	0.2948726	0.22556259	2.6727479	21	—	—
484385 2007 VU_{307}	16.8	X	339.28943	239.31004	256.84840	11.71729	0.2063195	0.22278321	2.6949316	21	—	—
484386 2007 VT_{308}	17.7	X	24.93158	64.13113	66.77579	4.61705	0.1541331	0.23344760	2.6122202	21	1 9.2	20.2
484387 2007 VB_{313}	17.8	X	5.56769	236.09799	246.38874	4.08053	0.1084997	0.22734827	2.6587343	21	—	—
484388 2007 VN_{327}	17.8	X	71.45071	43.43651	31.17019	4.86648	0.2356871	0.23238751	2.6201583	21	1 31.7	20.3
484389 2007 VL_{330}	18.1	X	30.18675	33.12268	57.35113	6.38878	0.2927118	0.22311457	2.6922627	21	—	—
484390 2007 WQ_{11}	17.5	X	56.02566	225.22978	180.46168	5.29886	0.2721397	0.22635581	2.6665002	21	—	—
484391 2007 WC_{13}	17.9	X	18.49878	302.20203	180.31856	9.78759	0.0649646	0.23383049	2.6093677	21	—	—
484392 2007 WO_{14}	17.7	X	19.76604	26.62767	117.69437	2.57905	0.0535481	0.23580609	2.5947730	21	1 23.9	20.9
484393 2007 WM_{15}	18.0	X	60.11892	245.38966	187.17865	1.80143	0.1960492	0.23030444	2.6359338	21	—	—
484394 2007 WV_{23}	16.2	X	276.19665	300.24798	100.21763	4.47799	0.2259246	0.12552079	3.9505624	21	7 14.8	21.9
484395 2007 WQ_{39}	17.5	X	32.20365	321.72793	143.13022	4.52923	0.2276474	0.23026999	2.6361968	21	—	—
484396 2007 WG_{58}	16.5	X	12.12642	214.89750	309.65811	11.68736	0.1057408	0.22960024	2.6413209	21	2 5.4	19.3
484397 2007 WY_{61}	17.3	X	83.21985	106.68867	277.40893	10.14366	0.3130659	0.22913256	2.6449138	21	—	—
484398 2007 XA_{1}	17.6	X	69.79444	130.70054	264.96800	3.74462	0.2813893	0.22796191	2.6539609	21	—	—
484399 2007 XO_{9}	17.3	X	39.84848	261.79043	199.02183	11.04618	0.2653368	0.22896847	2.6461772	21	—	—
484400 2007 XT_{10}	15.9	X	282.68455	129.48723	257.59560	14.16194	0.2696115	0.12470460	3.9677814	21	6 29.1	21.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
484401 2007 XW_{15}	17.0	X	70.98422	143.08261	272.48836	12.29215	0.2426152	0.22974934	2.6401780	21	1 2.3	19.3
484402 2007 XH_{16}	19.6	X	128.46647	58.30267	91.28927	27.42930	0.2348250	0.76206729	1.1870632	21	8 8.3	20.5
484403 2007 XF_{25}	21.4	X	79.06494	302.64374	272.77414	24.48758	0.1322350	0.76598457	1.1830126	21	9 2.2	22.6
484404 2007 XK_{36}	17.4	X	86.87111	4.36562	57.84388	8.25127	0.2694170	0.23359656	2.6111095	21	2 19.0	20.4
484405 2007 XE_{38}	17.1	X	110.70696	338.71262	43.55620	6.39699	0.2559246	0.23320420	2.6140374	21	1 27.1	20.6
484406 2007 XB_{40}	17.4	X	62.84254	121.79753	296.32722	11.87882	0.2965090	0.22612687	2.6682996	21	—	—
484407 2007 XT_{51}	16.7	X	223.15907	3.00583	330.33636	7.19021	0.2698629	0.24342117	2.5403710	21	2 28.8	21.2
484408 2007 XU_{51}	18.2	X	19.43689	80.88389	13.98782	3.90887	0.1810219	0.22195686	2.7016163	21	—	—
484409 2007 XR_{52}	17.1	X	9.94299	31.37364	100.62704	6.10639	0.1046616	0.22496648	2.6774673	21	—	—
484410 2007 XV_{52}	16.9	X	72.13498	335.91334	106.75176	13.84483	0.2138829	0.23039450	2.6352469	21	2 11.5	19.7
484411 2007 XL_{54}	17.6	X	357.44371	100.40021	33.18280	5.93501	0.1206942	0.22211933	2.7002988	21	—	—
484412 2007 YB_{11}	16.2	X	317.57091	245.18131	332.85003	14.45560	0.2122681	0.22175888	2.7032240	21	1 16.5	20.0
484413 2007 YU_{26}	16.9	X	78.71006	345.06372	86.82945	14.61596	0.1447729	0.22900921	2.6458634	21	1 29.3	20.1
484414 2007 YU_{33}	17.2	X	118.49396	264.82606	87.50987	11.92901	0.1953665	0.22870384	2.6482181	21	—	—
484415 2007 YZ_{51}	16.7	X	240.93212	169.16955	145.15049	2.33535	0.2192266	0.24536298	2.5269502	21	2 21.9	21.0
484416 2007 YL_{58}	17.4	X	62.40688	339.80512	113.37210	15.34675	0.2106155	0.22910906	2.6450946	21	2 6.2	19.9
484417 2007 YL_{64}	17.0	X	98.02042	274.81392	141.26836	10.83152	0.2139968	0.23040319	2.6351806	21	2 15.3	20.0
484418 2007 YZ_{65}	17.2	X	31.75106	172.35659	275.66230	3.52170	0.0676437	0.22021694	2.7158278	21	—	—
484419 2007 YC_{67}	17.3	X	66.00178	218.64061	256.49975	1.80107	0.0998681	0.23185209	2.6241906	21	2 26.9	20.2
484420 2007 YW_{67}	17.7	X	53.67529	97.84948	0.66821	6.07181	0.2664656	0.22836972	2.6508005	21	2 1.6	19.7
484421 2007 YG_{71}	16.9	X	319.83783	47.04727	71.38064	13.69853	0.1676937	0.21289405	2.7777534	21	—	—
484422 2007 YW_{73}	16.3	X	261.42875	247.01672	316.79314	9.94238	0.0746185	0.21388236	2.7691899	21	—	—
484423 2007 YY_{73}	16.9	X	91.01601	131.53692	257.00826	4.80064	0.0358007	0.21985420	2.7188143	21	—	—
484424 2007 YV_{74}	17.4	X	36.10427	161.15858	300.93041	11.25891	0.1142663	0.22155516	2.7048808	21	—	—
484425 2008 AP_{15}	17.5	X	71.49246	222.67738	246.32786	2.80408	0.0794062	0.23201534	2.6229595	21	2 24.2	20.8
484426 2008 AM_{22}	17.3	X	16.38802	329.16711	123.02115	10.24801	0.1862826	0.21681332	2.7441767	21	—	—
484427 2008 AN_{22}	17.6	X	2.95029	143.37131	323.60273	7.32633	0.3329828	0.21792778	2.7348131	21	—	—
484428 2008 AJ_{23}	17.4	X	318.70540	78.30565	94.25292	4.49690	0.1305588	0.21693651	2.7431378	21	—	—
484429 2008 AO_{27}	17.3	X	18.43264	350.97296	154.05475	11.21271	0.1122633	0.22328945	2.6908567	21	1 21.3	20.5
484430 2008 AL_{28}	17.3	X	333.88874	182.15107	352.73279	3.20274	0.1723860	0.21757673	2.7377540	21	—	—
484431 2008 AP_{29}	16.3	X	190.98475	345.95336	319.98910	31.91315	0.0396831	0.22090717	2.7101678	21	1 7.0	20.6
484432 2008 AH_{38}	17.0	X	27.22111	6.32296	129.50231	17.04802	0.0973623	0.22759250	2.6568320	21	1 23.9	20.1
484433 2008 AT_{40}	17.2	X	6.64296	118.29966	337.88122	5.88521	0.0959292	0.21469897	2.7621636	21	—	—
484434 2008 AJ_{45}	17.1	X	72.00964	331.49473	110.08806	13.77578	0.2612358	0.22924464	2.6440516	21	2 18.3	19.8
484435 2008 AS_{45}	16.6	X	141.45823	89.16423	276.88017	10.59758	0.2006983	0.23557872	2.5964423	21	1 28.9	20.5
484436 2008 AR_{48}	16.8	X	47.00636	226.98244	248.17432	10.85935	0.1425371	0.23530865	2.5984286	21	1 24.6	19.7
484437 2008 AB_{54}	17.5	X	339.88477	223.82298	299.98006	4.47452	0.0567460	0.22350516	2.6891252	21	—	—
484438 2008 AK_{55}	16.8	X	251.97344	50.09133	133.45345	4.61587	0.0340665	0.21046015	2.7991283	21	—	—
484439 2008 AV_{76}	17.2	X	66.01925	310.57282	94.91423	7.34259	0.0244803	0.21805419	2.7337560	21	—	—
484440 2008 AM_{79}	17.0	X	95.48228	286.32374	135.77321	15.16414	0.1070739	0.22715180	2.6602672	21	2 3.4	20.4
484441 2008 AP_{91}	16.9	X	43.54947	341.13969	118.93715	22.61973	0.0274859	0.22333714	2.6904737	21	1 4.2	20.5
484442 2008 AL_{93}	16.5	X	143.09235	246.98960	105.07486	14.92753	0.1082666	0.22485227	2.6783738	21	1 6.9	20.1
484443 2008 AR_{95}	16.7	X	86.46882	86.49014	326.67934	10.31223	0.1220779	0.22521650	2.6754853	21	1 14.1	20.0
484444 2008 AS_{98}	17.5	X	69.32982	76.68805	330.07845	7.83079	0.2377175	0.22272408	2.6954085	21	—	—
484445 2008 AP_{109}	17.5	X	352.87967	228.26562	287.27165	6.45346	0.2146497	0.22252102	2.6970481	21	—	—
484446 2008 AL_{110}	16.9	X	147.70657	227.06535	124.47850	7.88359	0.0931340	0.22317694	2.6917610	21	1 9.8	20.7
484447 2008 AS_{128}	17.3	X	2.39473	325.43987	126.33425	4.42116	0.0784425	0.21540773	2.7561014	21	—	—
484448 2008 BW_{4}	17.5	X	31.67510	25.78948	86.43193	3.31412	0.0424471	0.22441289	2.6818687	21	1 2.4	20.9
484449 2008 BM_{15}	17.2	X	15.61246	324.60236	126.19037	6.29969	0.1600572	0.21809721	2.7333965	21	—	—
484450 2008 BD_{18}	16.7	X	322.83283	53.11704	145.57299	11.88148	0.0240355	0.22339126	2.6900391	21	1 21.6	20.4
484451 2008 BC_{20}	17.0	X	342.44160	105.06993	122.93201	5.99026	0.2425192	0.23372575	2.6101472	21	2 24.8	19.9
484452 2008 BY_{22}	16.5	X	352.22983	161.22501	332.08297	12.92275	0.1446183	0.21620593	2.7493138	21	—	—
484453 2008 BQ_{31}	17.3	X	38.15643	282.63116	145.59215	9.88403	0.2020543	0.21704373	2.7422343	21	—	—
484454 2008 BJ_{48}	17.0	X	348.81950	262.25871	274.50638	11.11190	0.2097818	0.22317819	2.6917510	21	1 2.9	20.1
484455 2008 BX_{50}	17.0	X	60.77729	254.50366	144.06339	5.09121	0.0844932	0.21298393	2.7769719	21	—	—
484456 2008 BP_{51}	17.3	X	5.44422	103.03200	8.37250	9.16841	0.1741926	0.21829170	2.7317727	21	—	—
484457 2008 CU_{2}	17.8	X	3.51508	354.77874	147.05471	8.98915	0.2604460	0.21928875	2.7234860	21	—	—
484458 2008 CC_{10}	17.6	X	300.42989	60.03089	137.04797	3.74110	0.1923842	0.21638376	2.7478073	21	—	—
484459 2008 CW_{13}	17.4	X	298.16383	105.52024	88.81636	3.37991	0.1361011	0.21519537	2.7579143	21	—	—
484460 2008 CW_{18}	17.4	X	21.56753	13.15254	88.39540	3.03645	0.2049036	0.21695764	2.7429596	21	—	—
484461 2008 CD_{20}	16.8	X	306.82848	223.28442	330.85541	8.55390	0.0993767	0.21609837	2.7502260	21	—	—
484462 2008 CM_{20}	21.5	X	322.99595	226.64022	306.93609	21.07382	0.2229724	0.66053483	1.3057867	21	—	—
484463 2008 CA_{37}	16.6	X	19.80251	188.50386	321.28621	12.98821	0.1902448	0.22462471	2.6801825	21	1 27.6	19.0
484464 2008 CJ_{38}	16.8	X	75.57292	293.67170	137.69955	15.19540	0.0952964	0.22335271	2.6903487	21	1 16.2	20.0
484465 2008 CX_{52}	17.1	X	56.70550	316.24891	109.47558	6.42281	0.1065814	0.21810116	2.7333636	21	—	—
484466 2008 CZ_{58}	17.2	X	108.14032	254.59437	151.48664	14.94474	0.1884996	0.22737679	2.6585120	21	2 11.7	20.7
484467 2008 CS_{60}	17.1	X	84.12790	96.88955	305.75105	10.09043	0.1965156	0.22243531	2.6977409	21	1 6.7	20.0
484468 2008 CH_{66}	17.6	X	36.99222	97.18516	7.93524	2.85607	0.1591456	0.22203530	2.7009800	21	—	—
484469 2008 CB_{88}	17.1	X	307.82255	325.85505	132.96259	10.69783	0.1766927	0.20197942	2.8769433	21	12 1.6	20.4
484470 2008 CU_{91}	17.3	X	174.85392	290.45567	9.90802	4.79218	0.0569793	0.21392612	2.7688123	21	—	—
484471 2008 CA_{96}	17.1	X	333.79423	28.70283	122.75562	4.79162	0.1301163	0.22037811	2.7145036	21	—	—
484472 2008 CT_{100}	17.5	X	353.51341	48.97596	111.02071	13.55967	0.1081328	0.22484318	2.6784460	21	1 2.8	20.8
484473 2008 CV_{102}	17.0	X	45.49942	180.70426	296.63268	10.47780	0.0908430	0.22613511	2.6682348	21	1 28.4	20.0
484474 2008 CB_{103}	17.3	X	328.09078	11.98835	172.70560	10.74104	0.0914028	0.21972256	2.7199001	21	1 1.9	21.1
484475 2008 CG_{105}	17.4	X	38.38288	54.58330	347.07119	11.91975	0.2365928	0.21264892	2.7798877	21	—	—
484476 2008 CV_{119}	16.8	X	61.25895	293.09683	173.27546	11.91397	0.1772822	0.22736187	2.6586283	21	2 15.7	19.5
484477 2008 CW_{121}	17.0	X	303.17089	252.64008	299.39992	9.70307	0.2115735	0.21635295	2.7480682	21	—	—
484478 2008 CY_{122}	17.5	X	350.37631	194.83490	303.07101	2.39597	0.1385423	0.21768025	2.7368859	21	—	—
484479 2008 CN_{125}	17.2	X	103.74811	74.39026	312.23941	5.28124	0.0349054	0.21893520	2.7264173	21	—	—
484480 2008 CF_{136}	17.6	X	329.23755	33.34626	155.89701	4.22006	0.2313446	0.22085723	2.7105763	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
484481 2008 CD_{145}	17.2	X	350.39620	259.71975	272.85105	1.65143	0.1899534	0.22208919	2.7005430	21	1 3.6	20.4
484482 2008 CW_{155}	16.5	X	28.57772	294.74806	158.95384	14.30766	0.1136047	0.21852477	2.7298300	21	—	—
484483 2008 CA_{160}	17.2	X	295.97243	275.42391	315.99318	3.28037	0.1608043	0.21825663	2.7320653	21	1 13.1	21.2
484484 2008 CF_{170}	17.0	X	276.61491	282.31030	275.89960	4.41277	0.0145113	0.21323639	2.7747797	21	—	—
484485 2008 CG_{178}	16.9	X	68.62696	335.36769	116.81529	15.35441	0.2276842	0.22834280	2.6510088	21	2 21.7	19.6
484486 2008 CG_{182}	16.9	X	28.13808	350.99934	133.89060	14.64814	0.1963023	0.22233193	2.6985770	21	1 7.8	19.5
484487 2008 CX_{184}	16.8	X	63.20255	353.95051	74.14663	10.23445	0.3020334	0.22607876	2.6686782	21	1 14.6	18.8
484488 2008 CZ_{191}	17.2	X	294.79430	38.63133	164.80159	8.56298	0.1408787	0.21566088	2.7539441	21	—	—
484489 2008 CA_{192}	17.4	X	333.95455	316.99139	232.46050	1.93173	0.1176798	0.22075053	2.7114496	21	1 12.2	20.9
484490 2008 CK_{196}	17.4	X	309.89175	19.78771	181.28531	9.25833	0.0898168	0.21380668	2.7698433	21	1 1.1	21.4
484491 2008 CC_{198}	17.3	X	255.22143	276.58966	313.65948	1.43731	0.1921842	0.21029991	2.8005500	21	—	—
484492 2008 CA_{208}	17.2	X	43.33767	104.72887	319.93747	6.99686	0.1637343	0.21611557	2.7500801	21	—	—
484493 2008 DB_{22}	17.5	X	15.02473	5.82085	129.38295	10.02013	0.1899055	0.22185619	2.7024335	21	—	—
484494 2008 DV_{23}	17.4	X	301.37189	60.54999	158.25932	12.83425	0.2609738	0.21681232	2.7441852	21	—	—
484495 2008 DE_{24}	16.9	X	318.35495	6.27638	177.75193	8.64117	0.1215194	0.21651628	2.7466860	21	—	—
484496 2008 DR_{31}	16.3	X	185.04264	140.59883	157.04376	21.49799	0.1074795	0.21018526	2.8015682	21	—	—
484497 2008 DZ_{39}	16.7	X	6.58658	152.10251	351.15900	12.66624	0.1304437	0.21787914	2.7352201	21	1 2.4	20.1
484498 2008 DE_{44}	17.5	X	280.25293	76.73400	154.21231	9.94648	0.2198629	0.21216505	2.7841127	21	—	—
484499 2008 DQ_{54}	16.4	X	348.02421	82.66818	120.28695	16.02182	0.2549542	0.22495433	2.6775637	21	1 29.9	19.2
484500 2008 DJ_{58}	16.8	X	279.67599	301.25046	317.81169	12.88281	0.0572565	0.22825971	2.6516521	21	2 8.1	20.4
484501 2008 DM_{76}	17.1	X	40.91354	93.68478	344.29884	7.87879	0.1349336	0.21580803	2.7526922	21	—	—
484502 2008 DL_{82}	17.2	X	297.02448	153.29671	55.44055	4.99932	0.1433656	0.21318434	2.7752313	21	—	—
484503 2008 DJ_{83}	17.5	X	297.05701	25.04420	191.85051	11.77794	0.1634259	0.21447578	2.7640796	21	—	—
484504 2008 DE_{84}	16.9	X	291.30094	207.71094	14.25700	13.50045	0.1084621	0.21544794	2.7557585	21	1 4.8	21.2
484505 2008 DX_{86}	16.8	X	95.20704	59.51655	331.44748	13.97949	0.1413870	0.21970136	2.7200751	21	1 2.9	20.3
484506 2008 ER_{7}	20.0	X	185.34958	80.98693	323.45215	2.23762	0.6238763	0.54387423	1.4864047	21	4 23.6	22.9
484507 2008 ES_{13}	16.8	X	280.24351	355.74071	155.67764	15.69470	0.0815265	0.20181671	2.8784894	21	—	—
484508 2008 EK_{16}	16.6	X	20.14099	158.82107	1.72671	12.18276	0.2178250	0.22335927	2.6902960	21	2 15.1	19.1
484509 2008 EZ_{18}	17.4	X	354.80285	333.82769	171.34332	7.62043	0.2841411	0.21862365	2.7290069	21	—	—
484510 2008 EV_{20}	16.3	X	247.42470	290.37570	354.50336	12.21720	0.1402393	0.21601871	2.7509021	21	2 3.8	20.8
484511 2008 EF_{25}	17.6	X	326.78136	102.52958	131.51052	6.86662	0.2797683	0.22320499	2.6915355	21	2 3.8	21.2
484512 2008 EH_{28}	16.2	X	107.81787	64.91454	19.16363	22.41968	0.0342657	0.22673054	2.6635613	21	3 18.2	20.0
484513 2008 ET_{38}	17.7	X	358.75149	29.17795	101.14748	3.80052	0.1236977	0.21509660	2.7587585	21	—	—
484514 2008 ED_{45}	16.6	X	288.03593	233.26364	1.14828	7.50500	0.1654593	0.21471390	2.7620356	21	1 9.7	20.8
484515 2008 EL_{51}	16.9	X	11.66402	333.75228	190.37425	15.48830	0.2532046	0.22249210	2.6972818	21	1 19.4	19.7
484516 2008 ER_{51}	16.6	X	169.05825	333.33856	24.59082	10.93248	0.0922965	0.22174632	2.7033261	21	2 15.2	20.8
484517 2008 EC_{69}	17.1	X	309.32256	178.19862	93.29869	24.75456	0.6173921	0.21520706	2.7578145	21	1 25.7	22.4
484518 2008 EW_{90}	16.9	X	306.01430	105.29009	98.81687	12.65807	0.2727605	0.21395204	2.7685886	21	—	—
484519 2008 EJ_{105}	16.7	X	315.62451	55.19204	131.64382	8.36366	0.1502858	0.21597361	2.7512850	21	—	—
484520 2008 EP_{105}	17.1	X	12.23166	358.61128	109.91614	6.21523	0.0754973	0.21393843	2.7687060	21	—	—
484521 2008 EZ_{113}	16.9	X	320.48846	227.38293	340.46208	12.51915	0.1563418	0.21952826	2.7215047	21	1 15.6	20.8
484522 2008 EB_{120}	17.7	X	345.91758	28.46812	152.92117	3.50001	0.1611774	0.21934333	2.7230342	21	1 12.9	21.0
484523 2008 ET_{134}	17.5	X	305.24622	44.58878	169.07470	8.15443	0.1558827	0.21546357	2.7556252	21	1 2.0	21.6
484524 2008 EP_{140}	17.0	X	10.61331	318.83785	145.19058	9.54280	0.1149632	0.21249509	2.7812292	21	—	—
484525 2008 EP_{149}	16.2	X	345.95063	26.79935	129.37772	14.14084	0.1377541	0.21655870	2.7463272	21	—	—
484526 2008 ES_{152}	17.4	X	289.83090	104.55005	86.53287	3.34137	0.0615648	0.20888010	2.8132263	21	—	—
484527 2008 EE_{154}	18.0	X	321.90779	340.44039	188.78965	8.57302	0.1346331	0.21178251	2.7874644	21	—	—
484528 2008 EC_{157}	18.0	X	359.05775	122.38950	7.07189	7.35734	0.2737766	0.21574671	2.7532137	21	—	—
484529 2008 EK_{165}	17.3	X	20.83022	40.09413	71.36104	6.72999	0.2596220	0.21839520	2.7309096	21	—	—
484530 2008 EC_{167}	16.8	X	10.24584	356.29760	143.63252	8.17762	0.2019219	0.21821093	2.7324468	21	—	—
484531 2008 FN_{1}	17.0	X	267.76175	224.19568	1.88193	13.41379	0.1671055	0.21187466	2.7866561	21	—	—
484532 2008 FT_{2}	17.0	X	73.85961	244.33883	172.61232	6.53457	0.0486606	0.21496189	2.7599109	21	—	—
484533 2008 FF_{38}	16.9	X	187.11220	100.39128	175.73291	10.67404	0.1163627	0.20043542	2.8916989	21	—	—
484534 2008 FB_{58}	18.0	X	37.53309	303.16320	178.99083	9.76240	0.2498642	0.22156901	2.7047681	21	1 23.3	20.3
484535 2008 FA_{68}	17.0	X	27.13535	279.30831	202.67764	29.16125	0.3957679	0.21971489	2.7199634	21	—	—
484536 2008 FF_{81}	17.3	X	327.61139	329.92182	194.08036	7.72819	0.1527902	0.21194660	2.7860255	21	—	—
484537 2008 FY_{83}	18.8	X	24.17412	86.48680	158.96263	4.56292	0.0411016	0.31125078	2.1563988	21	6 17.1	20.9
484538 2008 FK_{89}	16.7	X	284.71622	242.27138	331.37318	15.22395	0.0585174	0.22046580	2.7137837	21	—	—
484539 2008 FW_{102}	17.4	X	310.65058	28.97546	170.45860	9.89346	0.2066238	0.21118202	2.7927459	21	—	—
484540 2008 FV_{120}	13.3	X	228.46763	340.04203	29.36798	27.70924	0.0342539	0.08390464	5.1674791	21	5 5.6	20.4
484541 2008 FJ_{133}	17.3	X	3.88944	118.00807	0.37421	2.04315	0.1429143	0.21309953	2.7759675	21	—	—
484542 2008 GU_{9}	16.4	X	68.20457	101.14358	199.60295	8.85368	0.0678064	0.17921663	3.1156632	21	11 1.3	20.9
484543 2008 GV_{9}	16.2	X	54.79402	112.93620	208.92133	16.51338	0.1212766	0.17921372	3.1156970	21	11 18.2	20.6
484544 2008 GL_{31}	17.3	X	232.33198	176.08062	111.13025	6.69541	0.0505691	0.21224291	2.7834318	21	1 23.8	21.4
484545 2008 GM_{37}	14.3	X	47.96585	154.51967	67.02782	9.05598	0.0941920	0.08387688	5.1686190	21	6 29.4	20.9
484546 2008 GR_{39}	17.2	X	332.42188	138.17179	12.79816	12.72543	0.0471390	0.21092278	2.7950337	21	—	—
484547 2008 GQ_{42}	17.2	X	253.10491	29.23446	192.54266	14.84381	0.0869674	0.20281938	2.8689947	21	—	—
484548 2008 GF_{67}	16.5	X	197.33745	301.55116	26.48165	12.63096	0.1569112	0.21183439	2.7870092	21	2 11.8	21.2
484549 2008 GW_{73}	14.1	X	357.60226	198.38694	81.39377	10.07066	0.0770341	0.08662385	5.0587636	21	6 27.9	20.4
484550 2008 GF_{79}	17.2	X	288.37666	132.47784	54.87321	8.69178	0.2261908	0.20477923	2.8506602	21	—	—
484551 2008 GG_{111}	16.9	X	313.99821	108.58607	104.73973	12.53378	0.2138106	0.21468393	2.7622927	21	1 4.6	20.9
484552 2008 GQ_{128}	17.3	X	311.38634	123.14502	120.95036	18.87281	0.3559176	0.21729134	2.7401506	21	1 20.5	21.4
484553 2008 GJ_{140}	13.9	X	46.84087	126.62840	96.66636	15.40706	0.0456769	0.08313350	5.1993854	21	6 24.9	20.7
484554 2008 GA_{144}	17.2	X	320.40424	80.94529	132.10714	10.49662	0.2653909	0.21645561	2.7471992	21	1 4.0	21.2
484555 2008 HN_{8}	17.0	X	220.87243	126.95443	145.56334	9.87070	0.1571866	0.20349078	2.8626806	21	—	—
484556 2008 HB_{18}	16.7	X	120.31222	89.62470	144.84535	10.12301	0.0423150	0.17715711	3.1397639	21	10 11.6	21.4
484557 2008 HR_{31}	14.0	X	2.49853	216.23297	54.17639	16.96491	0.0473107	0.08473408	5.1337018	21	6 22.3	20.7
484558 2008 HA_{35}	16.3	X	269.89913	244.48891	51.39074	33.16732	0.3122800	0.21484370	2.7609230	21	3 13.1	21.7
484559 2008 HN_{42}	14.1	X	8.10950	136.23298	120.87119	12.97022	0.0734632	0.08312413	5.1997759	21	6 16.9	20.7
484560 2008 HW_{56}	16.7	X	279.95737	83.93756	209.66160	13.97307	0.1932196	0.22099245	2.7094705	21	3 4.7	21.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
484561 2008 HK_{70}	16.7	X	270.53424	336.41732	230.54287	7.25149	0.2571539	0.20370622	2.8606618	21	—	—
484562 2008 JZ_{23}	16.4	X	122.72508	255.65424	65.59747	11.01012	0.0699873	0.19163075	2.9796088	21	—	—
484563 2008 JM_{37}	16.1	X	102.96038	213.29273	99.24845	18.37224	0.1469825	0.18372684	3.0644625	21	12 30.4	21.0
484564 2008 JM_{40}	16.3	X	89.87394	176.77813	135.27335	17.64795	0.1078675	0.18158506	3.0885121	21	12 15.8	21.2
484565 2008 KR_{37}	16.5	X	140.87633	61.99815	149.71594	10.00532	0.0565679	0.17559658	3.1583385	21	10 7.2	21.2
484566 2008 KK_{38}	14.2	X	83.21088	328.23406	216.83286	12.99519	0.1501365	0.08395765	5.1653038	21	7 5.9	21.2
484567 2008 KB_{42}	16.9	X	124.33490	170.10945	129.77684	12.29959	0.1951783	0.18458237	3.0549861	21	—	—
484568 2008 LT_{3}	13.4	X	16.72509	139.72893	117.12966	16.74376	0.0749489	0.08307113	5.2019877	21	6 27.9	20.0
484569 2008 LJ_{5}	15.9	X	202.71237	157.04192	103.25545	20.56968	0.2158761	0.18995526	2.9971042	21	—	—
484570 2008 LS_{11}	16.9	X	323.03482	68.08920	96.13081	13.02057	0.0896612	0.20328226	2.8646379	21	—	—
484571 2008 LS_{17}	17.4	X	201.96943	190.71334	160.39053	8.51137	0.4081128	0.27261494	2.3556076	21	3 7.1	21.9
484572 2008 OK	16.9	X	270.25890	22.48543	310.73950	25.78363	0.2247076	0.28871334	2.2672086	21	3 21.6	21.0
484573 2008 OA_{11}	15.6	X	150.88698	349.74211	335.87457	18.44278	0.3496882	0.18091371	3.0961481	21	1 17.5	21.2
484574 2008 QK_{13}	17.0	X	138.56246	28.27249	353.67564	7.58794	0.1447027	0.26466209	2.4025636	21	2 7.8	20.2
484575 2008 QA_{14}	17.8	X	123.88310	77.39784	332.76918	7.63781	0.1724841	0.26779105	2.3838120	21	2 27.6	20.8
484576 2008 QS_{16}	17.6	X	185.03458	190.78057	162.34872	10.47996	0.2336471	0.27063678	2.3670722	21	2 21.2	21.6
484577 2008 QF_{17}	17.4	X	185.65942	10.86762	337.05190	6.31754	0.1719665	0.27030475	2.3690102	21	2 13.7	21.1
484578 2008 QQ_{25}	16.5	X	194.76838	268.90310	334.44584	8.97369	0.1885690	0.17896314	3.1186047	21	12 29.0	21.7
484579 2008 QT_{25}	17.5	X	174.12219	168.39539	204.68067	10.63671	0.2394097	0.27181941	2.3602015	21	3 6.7	21.6
484580 2008 QA_{26}	17.6	X	351.90661	310.79610	326.74997	5.41316	0.2030408	0.29764942	2.2216008	21	5 29.2	19.0
484581 2008 QX_{27}	17.0	X	266.38507	199.21865	112.24437	7.35712	0.1291653	0.28181799	2.3040412	21	3 19.8	20.3
484582 2008 QG_{40}	16.1	X	6.42959	101.38552	341.15645	12.71213	0.0449449	0.17591007	3.1545851	21	—	—
484583 2008 QR_{42}	16.2	X	123.46649	348.85990	343.19972	21.96508	0.1142564	0.17896616	3.1185695	21	—	—
484584 2008 QK_{47}	18.1	X	149.02430	226.38260	156.55857	2.85563	0.2078967	0.26636554	2.3923094	21	2 25.3	21.4
484585 2008 RX_{2}	18.3	X	349.17265	49.37177	216.93220	2.16015	0.1794848	0.29081347	2.2562802	21	5 7.2	19.6
484586 2008 RP_{3}	17.8	X	141.14268	193.39007	200.60461	2.66405	0.2405297	0.26606667	2.3941006	21	3 6.1	21.5
484587 2008 RS_{7}	16.3	X	118.38416	70.08350	225.98401	14.09844	0.2027121	0.17344533	3.1844002	21	12 25.2	21.8
484588 2008 RM_{11}	17.9	X	201.32728	215.47280	139.63488	3.09972	0.2127316	0.27383379	2.3486124	21	3 9.0	21.7
484589 2008 RW_{21}	17.3	X	338.24019	288.34769	340.50769	25.48677	0.1499105	0.29124027	2.2540754	21	4 5.4	20.2
484590 2008 RU_{23}	18.2	X	304.00157	206.44442	188.50733	23.04231	0.1179880	0.37913733	1.8906233	21	9 27.5	19.0
484591 2008 RB_{69}	18.1	X	228.59586	358.19698	324.63263	4.75481	0.1646306	0.27332808	2.3515085	21	2 19.8	21.8
484592 2008 RM_{71}	16.4	X	207.09136	290.73801	327.23660	10.89201	0.1733535	0.18632489	3.0359094	21	—	—
484593 2008 RG_{93}	16.0	X	113.80019	159.74582	175.91920	11.07658	0.0369365	0.17322470	3.1871035	21	—	—
484594 2008 RK_{106}	17.1	X	228.75555	177.68104	63.84493	2.28137	0.1167257	0.18141599	3.0904307	21	—	—
484595 2008 RO_{118}	18.0	X	151.85976	192.21732	194.65381	6.74532	0.1358802	0.26325012	2.4111469	21	2 24.3	21.6
484596 2008 RB_{128}	16.5	X	126.83092	163.86833	161.25789	10.21324	0.0871320	0.17965013	3.1106491	21	—	—
484597 2008 RS_{136}	17.5	X	147.39867	259.92124	115.51205	3.18636	0.2086687	0.26399166	2.4066296	21	2 15.4	20.9
484598 2008 RP_{138}	16.1	X	208.29155	249.74878	356.49333	11.61357	0.0460123	0.17634053	3.1494494	21	—	—
484599 2008 RT_{143}	18.0	X	132.92480	273.73581	164.01998	3.08629	0.1609902	0.27308012	2.3529317	21	4 15.3	21.3
484600 2008 RS_{144}	18.0	X	150.99077	194.59162	200.13683	7.99568	0.1852167	0.26921432	2.3754029	21	3 9.7	21.5
484601 2008 SC_{1}	17.9	X	187.44275	313.57005	47.94877	6.36251	0.2554275	0.27203594	2.3589489	21	3 9.6	22.0
484602 2008 SD_{4}	17.9	X	139.84345	242.54510	135.61553	3.73603	0.2004169	0.26324541	2.4111756	21	2 9.6	21.2
484603 2008 SB_{27}	18.2	X	139.07159	92.96583	296.61046	0.99271	0.2295339	0.26451097	2.4034786	21	2 25.9	21.5
484604 2008 SM_{33}	16.1	X	142.99756	310.71735	340.62575	14.29885	0.0684561	0.17513365	3.1639017	21	—	—
484605 2008 SZ_{33}	17.6	X	211.69393	161.18719	195.36825	7.20341	0.2646130	0.27569392	2.3380364	21	3 17.3	21.6
484606 2008 SM_{35}	17.9	X	163.75841	217.20127	189.99745	6.33942	0.1413565	0.27207881	2.3587011	21	4 5.8	21.5
484607 2008 SK_{42}	18.1	X	160.65123	6.75331	8.57934	5.60948	0.2504572	0.26609665	2.3939208	21	3 3.7	22.0
484608 2008 SY_{45}	17.5	X	193.81181	181.38567	186.51803	6.29664	0.1334511	0.27163953	2.3612433	21	3 15.3	21.1
484609 2008 SY_{56}	17.4	X	79.56971	190.20162	22.91025	10.16637	0.0102307	0.28974333	2.2618324	21	7 25.2	20.3
484610 2008 SW_{58}	17.9	X	177.34244	232.89393	146.51993	1.89324	0.1995803	0.26963711	2.3729191	21	3 18.5	21.5
484611 2008 SB_{61}	17.8	X	165.92054	172.75174	194.36171	2.14446	0.2067751	0.26745329	2.3858186	21	2 20.7	21.5
484612 2008 SG_{64}	17.7	X	183.51793	154.77098	200.29437	11.01223	0.2552724	0.26811212	2.3819086	21	2 21.1	21.9
484613 Cerebrito	18.0	X	236.76910	302.48003	34.23150	5.86689	0.1914758	0.27809371	2.3245663	21	3 17.5	21.7
484614 2008 SO_{85}	16.3	X	92.89383	2.66827	332.13874	10.23013	0.0970015	0.17262179	3.1945202	21	—	—
484615 2008 SE_{95}	17.4	X	144.51993	137.49484	239.24061	3.14297	0.1865387	0.26237243	2.4165211	21	2 9.8	20.9
484616 2008 SY_{105}	17.6	X	136.63973	244.55565	165.84856	5.72702	0.3257335	0.26476539	2.4019386	21	4 1.7	21.5
484617 2008 SE_{110}	18.3	X	133.32491	5.42565	46.82083	3.14833	0.1712959	0.26623623	2.3930840	21	3 15.6	21.6
484618 2008 SS_{116}	17.8	X	162.68395	30.42805	8.61927	6.30426	0.0835418	0.27014444	2.3699473	21	3 20.6	20.9
484619 2008 SS_{119}	18.3	X	135.77763	201.65213	199.75488	1.76557	0.2005493	0.26370512	2.4083726	21	3 6.2	21.8
484620 2008 SU_{120}	18.7	X	152.76780	131.04905	309.78338	0.78633	0.1537849	0.27435323	2.3456471	21	5 8.8	22.1
484621 2008 SF_{122}	18.4	X	123.29188	70.07904	15.59607	6.36192	0.1582868	0.26858181	2.3791308	21	4 13.2	21.6
484622 2008 SP_{124}	18.2	X	249.65265	319.17282	10.94167	8.07439	0.1545000	0.27702436	2.3305445	21	3 22.1	21.6
484623 2008 SJ_{130}	17.9	X	155.81015	25.29188	345.83226	2.13886	0.2022013	0.26343797	2.4100005	21	2 17.3	21.4
484624 2008 SM_{143}	17.8	X	220.06604	342.68025	41.32463	9.11477	0.0925682	0.27784778	2.3259378	21	5 3.4	21.1
484625 2008 SA_{144}	18.4	X	347.71633	57.50953	27.40153	21.65459	0.0903150	0.39422892	1.8420598	21	—	—
484626 2008 SC_{145}	15.7	X	248.60754	246.78940	288.56113	15.09373	0.0712185	0.17243730	3.1967983	21	12 16.8	20.3
484627 2008 SA_{159}	16.2	X	56.58534	72.89764	342.63365	9.42130	0.0786394	0.17700918	3.1415129	21	—	—
484628 2008 SS_{164}	17.4	X	210.44278	190.14096	188.81807	22.49006	0.1641686	0.27759831	2.3273311	21	4 16.3	21.1
484629 2008 SS_{166}	15.9	X	353.42800	333.15998	40.50936	6.68548	0.1237347	0.15339491	3.4561726	21	10 20.7	20.2
484630 2008 ST_{166}	18.0	X	151.04516	8.33837	27.60540	3.77777	0.1840502	0.26778365	2.3838560	21	3 14.5	21.5
484631 2008 SL_{190}	17.7	X	192.06433	1.68665	4.38893	6.52060	0.1583401	0.27104828	2.3646758	21	3 13.6	21.4
484632 2008 SN_{193}	18.3	X	138.90108	254.34006	153.75276	5.47045	0.0874761	0.26631888	2.3925889	21	3 4.7	21.5
484633 2008 SV_{201}	17.7	X	246.39995	313.99918	15.01351	8.26216	0.1196960	0.27476464	2.3433050	21	3 20.7	21.0
484634 2008 SY_{214}	16.1	X	260.85981	222.09973	7.66002	11.33430	0.2257922	0.18549988	3.0449041	21	—	—
484635 2008 SX_{225}	17.3	X	57.86905	177.24705	27.21403	21.94701	0.1819920	0.28220088	2.3019567	21	7 5.2	20.3
484636 2008 SW_{230}	17.2	X	90.00811	209.00933	197.82606	14.12236	0.0629129	0.25863931	2.4397184	21	—	—
484637 2008 SG_{234}	18.7	X	106.72976	295.46818	119.37456	2.38730	0.2426204	0.26081003	2.4261624	21	2 24.8	21.7
484638 2008 SV_{281}	18.0	X	121.09937	6.54022	72.95212	3.65182	0.1731722	0.26371064	2.4083390	21	4 7.1	21.2
484639 2008 SX_{284}	18.2	X	113.92708	219.33683	206.83622	0.95558	0.1848239	0.26220244	2.4175654	21	3 11.3	21.2
484640 2008 SW_{290}	16.2	X	351.80421	101.27664	353.93495	9.22840	0.0617749	0.16825934	3.2495004	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
484641 2008 SG_{303}	17.8	X	321.02670	266.74628	22.38810	3.44279	0.1848029	0.28661047	2.2782848	21	4 17.0	19.9
484642 2008 SY_{304}	15.7	X	332.92496	40.86546	25.84142	9.90479	0.0731896	0.15647896	3.4106101	21	11 21.3	20.3
484643 2008 SE_{306}	18.3	X	285.33377	287.00245	206.41603	21.42970	0.0608305	0.39154517	1.8504675	21	—	—
484644 2008 SW_{307}	17.4	X	349.23482	338.66984	80.59133	7.87587	0.2835716	0.23355923	2.6113877	21	—	—
484645 2008 SA_{310}	17.9	X	98.96663	328.53766	122.99224	3.32864	0.1602041	0.25974293	2.4328027	21	3 23.9	20.8
484646 2008 TY_{5}	17.6	X	231.06851	333.66405	8.63091	6.81494	0.1299552	0.27529554	2.3402914	21	3 20.5	21.0
484647 2008 TP_{11}	17.6	X	91.66607	66.86389	5.44724	10.14879	0.1271489	0.26244668	2.4160653	21	2 10.8	20.4
484648 2008 TY_{13}	18.0	X	148.85663	209.62728	198.72022	6.15396	0.1153018	0.27048910	2.3679337	21	3 18.4	21.2
484649 2008 TY_{31}	18.4	X	125.76370	36.29362	46.87695	3.17056	0.1679950	0.26847794	2.3797444	21	4 15.3	21.7
484650 2008 TS_{47}	17.6	X	155.13622	341.13508	64.65978	7.32221	0.1329355	0.26800992	2.3825140	21	3 29.0	21.1
484651 2008 TV_{64}	17.8	X	268.62342	41.59552	287.27900	5.36780	0.1251769	0.28229998	2.3014179	21	4 8.6	21.0
484652 2008 TG_{90}	17.8	X	105.44543	31.90517	50.18756	3.79917	0.1921871	0.26229716	2.4169833	21	3 24.8	20.8
484653 2008 TR_{91}	17.8	X	155.93886	18.24109	43.12213	6.34053	0.2126669	0.27035759	2.3687015	21	4 22.1	21.5
484654 2008 TS_{92}	18.2	X	132.49283	258.76640	139.44316	0.59007	0.1743567	0.26432512	2.4046051	21	2 23.6	21.5
484655 2008 TA_{109}	18.1	X	311.88277	162.15089	126.39892	4.86318	0.1403108	0.28358362	2.2944677	21	4 12.7	20.7
484656 2008 TH_{113}	17.9	X	179.82620	275.64294	86.52644	2.42006	0.1954922	0.26712598	2.3877671	21	2 28.0	21.6
484657 2008 TL_{140}	15.4	X	89.74611	7.34923	2.23698	20.96350	0.0890485	0.17358700	3.1826674	21	—	—
484658 2008 TH_{150}	18.2	X	110.76519	271.58072	140.97677	1.83289	0.1788416	0.26196684	2.4190147	21	2 16.4	20.9
484659 2008 TD_{162}	17.9	X	155.26955	153.82119	217.11995	1.79833	0.1829781	0.26259263	2.4151700	21	2 13.8	21.6
484660 2008 TE_{171}	18.0	X	128.02146	4.42460	83.97541	2.49513	0.1431046	0.27002277	2.3706592	21	4 22.0	21.2
484661 2008 UK_{12}	17.8	X	92.52580	269.15927	246.82341	5.70603	0.0459675	0.28056997	2.3108686	21	5 22.7	20.5
484662 2008 UT_{18}	18.2	X	2.12156	227.93879	22.19812	6.96990	0.0839649	0.28258118	2.2998909	21	5 15.5	20.6
484663 2008 UC_{22}	18.3	X	159.42308	209.05898	206.40195	2.42311	0.0423717	0.27267991	2.3552334	21	4 2.3	21.3
484664 2008 UE_{26}	16.1	X	351.94938	207.91449	202.09619	9.51649	0.1263625	0.15863502	3.3796367	21	12 3.6	20.3
484665 2008 UL_{26}	18.4	X	82.64673	273.06580	181.42627	1.15435	0.1545297	0.26224859	2.4172817	21	2 27.3	20.7
484666 2008 UT_{37}	18.0	X	66.37067	129.57047	27.43403	5.56732	0.1688020	0.26689094	2.3891688	21	5 3.4	20.4
484667 2008 UM_{52}	17.7	X	255.99348	316.56937	50.88666	8.58593	0.1164672	0.28040340	2.3117837	21	5 20.2	20.7
484668 2008 UT_{64}	17.7	X	207.06758	59.80083	277.00043	4.92103	0.2163873	0.26760864	2.3848952	21	2 17.6	21.7
484669 2008 UN_{93}	17.1	X	147.54184	340.72945	54.08551	24.70087	0.1933410	0.26429230	2.4048041	21	3 25.1	21.3
484670 2008 UQ_{99}	18.0	X	102.46368	163.58627	282.33078	4.96410	0.0790902	0.26281761	2.4137915	21	3 3.4	21.0
484671 2008 UZ_{99}	15.9	X	343.32656	177.10413	228.21251	4.77448	0.1740118	0.15314940	3.4598652	21	11 12.6	19.6
484672 2008 UB_{101}	18.2	X	330.48833	307.99308	336.69827	3.81037	0.1265555	0.28649947	2.2788732	21	5 5.5	20.6
484673 2008 UM_{103}	17.6	X	155.72391	5.29026	49.18396	6.09229	0.0356486	0.26914363	2.3758188	21	3 29.8	20.6
484674 2008 UW_{114}	17.2	X	46.00842	247.48054	284.46107	5.63890	0.0359274	0.27007284	2.3703662	21	4 1.3	20.1
484675 2008 UQ_{119}	17.9	X	104.89329	102.15351	14.40610	6.85523	0.0609445	0.26965433	2.3728181	21	4 16.4	20.6
484676 2008 UN_{135}	18.3	X	119.31138	202.70407	233.23737	1.44481	0.1582505	0.26444925	2.4038525	21	3 26.7	21.5
484677 2008 UD_{155}	18.4	X	132.82737	247.75258	169.77820	0.93891	0.1347757	0.26548780	2.3975794	21	3 15.9	21.7
484678 2008 UD_{158}	17.8	X	122.55696	230.44746	191.05260	1.80600	0.1622945	0.26168443	2.4207548	21	3 12.6	21.0
484679 2008 UT_{162}	16.0	X	51.94040	113.93778	235.52098	8.92481	0.0589558	0.15785015	3.3908302	21	12 4.5	20.7
484680 2008 UV_{168}	17.7	X	124.90789	355.05534	60.33585	6.54849	0.0933043	0.26254514	2.4154612	21	3 1.3	20.8
484681 2008 UY_{175}	17.1	X	238.15640	101.00594	223.00719	9.55066	0.1900153	0.27324815	2.3519670	21	2 25.5	21.0
484682 2008 UO_{185}	17.8	X	127.30849	328.63162	64.14114	2.46286	0.1960085	0.25786874	2.4445762	21	2 15.5	21.0
484683 2008 UF_{200}	17.7	X	129.17655	354.42381	44.22723	3.46010	0.1681269	0.26203417	2.4186003	21	2 21.4	20.9
484684 2008 UO_{208}	18.3	X	105.68319	225.23292	264.86663	1.45574	0.1383869	0.27197315	2.3593119	21	5 19.6	21.2
484685 2008 UB_{211}	18.3	X	107.67412	61.27929	29.21545	2.41931	0.1784947	0.26442266	2.4040137	21	4 4.5	21.4
484686 2008 UX_{212}	17.6	X	33.86969	149.09624	66.56011	6.68642	0.0923926	0.27708673	2.3301948	21	5 23.6	19.9
484687 2008 UX_{217}	17.9	X	159.96263	134.15537	264.18550	3.62766	0.1469930	0.26717372	2.3874826	21	3 20.1	21.4
484688 2008 UF_{222}	18.0	X	219.45296	41.76547	298.17427	3.41160	0.2192892	0.27034358	2.3687833	21	3 3.5	22.0
484689 2008 UG_{223}	17.7	X	50.87878	189.67509	10.54547	4.70930	0.1070634	0.27535092	2.3399776	21	5 31.4	20.1
484690 2008 UM_{223}	15.4	X	196.31032	326.56111	246.50698	12.56510	0.0837036	0.15465177	3.4374215	21	11 28.8	20.6
484691 2008 UU_{224}	17.9	X	88.25473	160.77238	296.39808	4.30335	0.2505391	0.25832759	2.4416806	21	3 27.0	20.6
484692 2008 UZ_{228}	17.7	X	150.17039	195.97543	254.98362	4.84610	0.1054512	0.27205620	2.3588317	21	5 15.5	21.1
484693 2008 UY_{250}	18.4	X	145.81261	128.03470	301.92618	0.72810	0.1570815	0.26912497	2.3759286	21	4 17.7	21.7
484694 2008 UO_{264}	17.9	X	260.72392	69.62911	261.35546	5.40687	0.1390293	0.27783780	2.3259935	21	4 1.5	21.3
484695 2008 UU_{267}	18.0	X	51.65460	69.42014	53.27425	4.06919	0.1715028	0.25793492	2.4441580	21	2 15.1	20.1
484696 2008 UJ_{269}	17.6	X	315.41192	332.71866	88.57336	3.30141	0.0652303	0.22733798	2.6588146	21	11 5.9	20.7
484697 2008 UN_{275}	17.8	X	19.77287	143.46443	47.36731	6.94493	0.0745575	0.26656467	2.3911179	21	3 25.4	20.4
484698 2008 UE_{284}	17.5	X	65.99736	89.74080	60.18490	5.74496	0.0781056	0.26907556	2.3762195	21	4 11.3	20.1
484699 2008 UF_{292}	18.4	X	76.21818	166.79160	306.24809	1.36934	0.1250673	0.26284708	2.4136110	21	3 10.2	20.8
484700 2008 UT_{297}	17.9	X	13.11941	178.67421	26.62527	10.53450	0.0287982	0.26976042	2.3721960	21	4 4.0	20.7
484701 2008 UE_{313}	17.4	X	150.19974	117.27139	281.38844	6.78518	0.1766401	0.26520237	2.3992994	21	3 11.7	21.1
484702 2008 UB_{340}	18.3	X	82.95798	258.82569	223.45724	1.65692	0.1389000	0.26349398	2.4096590	21	4 5.9	21.1
484703 2008 UN_{343}	18.0	X	153.57582	111.38743	269.03521	3.67480	0.2094356	0.26216723	2.4177818	21	2 25.5	21.6
484704 2008 UA_{344}	18.0	X	172.22560	180.88092	214.99115	6.17335	0.1097301	0.26685483	2.3893843	21	3 27.6	21.4
484705 2008 UF_{345}	18.7	X	109.42900	34.44004	49.03774	1.95276	0.1515403	0.26236937	2.4165399	21	3 24.8	21.7
484706 2008 UA_{351}	17.9	X	222.39472	262.16285	76.41847	3.37453	0.1876878	0.26832384	2.3806555	21	3 7.9	21.7
484707 2008 UG_{368}	17.5	X	202.46484	91.10965	273.25433	5.04796	0.1381001	0.27116451	2.3640001	21	3 17.3	21.1
484708 2008 VW_{31}	17.6	X	31.29639	324.55257	74.34365	7.19747	0.1440473	0.23866020	2.5740445	21	—	—
484709 2008 VW_{38}	17.9	X	66.31385	101.12847	15.41052	2.66641	0.1533934	0.25789498	2.4444104	21	3 4.2	20.3
484710 2008 VR_{61}	18.5	X	272.08998	75.30586	53.05905	18.95314	0.0382109	0.38739923	1.8636465	21	—	—
484711 2008 WU_{2}	18.0	X	98.57115	32.07749	49.74465	5.41816	0.2453323	0.26206596	2.4184047	21	3 24.4	20.9
484712 2008 WV_{2}	17.4	X	68.54307	169.47602	278.27632	8.06442	0.1716758	0.25761253	2.4461968	21	1 24.6	19.7
484713 2008 WC_{11}	17.9	X	115.43077	60.95536	47.19964	6.11409	0.2765002	0.26564906	2.3966091	21	5 19.5	21.4
484714 2008 WM_{12}	18.4	X	41.62950	302.87874	49.81695	19.36946	0.0871795	0.38673959	1.8657651	21	—	—
484715 2008 WT_{18}	18.4	X	107.83688	247.27891	172.63220	1.05939	0.1715428	0.25980323	2.4324263	21	2 21.2	21.3
484716 2008 WO_{24}	17.6	X	78.74271	232.82263	266.66993	2.68969	0.1199235	0.26584835	2.3954112	21	4 19.9	20.2
484717 2008 WM_{48}	17.4	X	84.17837	70.66722	75.08133	6.99631	0.0321483	0.26811254	2.3819060	21	4 26.9	20.2
484718 2008 WP_{61}	17.5	X	123.83047	333.42093	69.35110	10.65645	0.2791080	0.25873247	2.4391327	21	3 11.9	21.2
484719 2008 WJ_{72}	18.1	X	275.58461	176.90701	251.37765	19.23180	0.0913456	0.37278498	1.9120406	21	9 19.2	20.4
484720 2008 WZ_{83}	16.7	X	88.64324	95.44928	257.35767	10.35249	0.2096685	0.23726573	2.5841202	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
484721 2008 WB_{121}	17.9	X	108.69524	358.80728	87.25481	2.59324	0.1630899	0.25825888	2.4421137	21	3 30.3	20.9
484722 2008 WX_{134}	17.8	X	302.95468	151.03196	293.67571	16.25586	0.0990759	0.37794402	1.8946009	21	12 29.9	18.9
484723 2008 WO_{135}	17.3	X	130.41757	286.28827	105.20090	6.09318	0.1276192	0.25723942	2.4485616	21	2 8.3	20.5
484724 2008 XG_{2}	18.0	X	196.30262	242.39349	260.46306	17.84049	0.0827725	0.36840160	1.9271775	21	9 15.4	20.8
484725 2008 XP_{2}	18.3	X	322.38500	0.94443	58.69051	23.23854	0.3466804	0.37972337	1.8886776	21	—	—
484726 2008 XE_{7}	17.8	X	157.67651	357.80376	19.81244	5.76357	0.2452258	0.26242708	2.4161855	21	3 4.5	21.7
484727 2008 XU_{15}	18.0	X	85.59165	21.91718	86.37762	2.51573	0.1387043	0.25909957	2.4368283	21	3 23.7	20.7
484728 2008 XQ_{37}	18.1	X	110.72926	180.52574	274.42019	4.37459	0.1433026	0.26264946	2.4148215	21	4 6.7	21.2
484729 2008 XW_{39}	18.2	X	85.84903	146.52627	355.38027	1.52942	0.1120804	0.26523301	2.3991146	21	5 4.0	21.0
484730 2008 XX_{42}	18.2	X	227.59886	245.79940	292.66067	16.40534	0.0456131	0.37928165	1.8901437	21	—	—
484731 2008 XU_{51}	17.7	X	65.78239	220.47445	305.46565	3.83757	0.1635831	0.26526013	2.3989511	21	5 14.8	20.3
484732 2008 XE_{53}	16.4	X	324.89033	222.72852	296.37787	31.36192	0.1889545	0.23428671	2.6059792	21	—	—
484733 2008 XF_{53}	18.3	X	342.54845	136.05639	280.37137	18.29704	0.0790542	0.38124038	1.8836641	21	—	—
484734 2008 YX_{9}	16.9	X	64.64746	116.53775	289.23469	6.71112	0.1944080	0.24109274	2.5567011	21	—	—
484735 2008 YP_{24}	17.2	X	69.72348	252.92665	134.20419	3.49010	0.2434518	0.23903644	2.5713428	21	—	—
484736 2008 YW_{29}	17.7	X	68.40289	67.41295	87.16107	2.36930	0.1331282	0.25827540	2.4420095	21	4 30.2	20.2
484737 2008 YK_{31}	17.2	X	42.81622	316.31394	109.13942	13.94322	0.1616113	0.23700158	2.5860399	21	—	—
484738 2008 YG_{37}	16.7	X	17.68224	358.85979	115.66191	22.76753	0.0500947	0.24014078	2.5634535	21	—	—
484739 2008 YJ_{66}	17.4	X	20.83437	27.05976	67.49390	3.72772	0.1779761	0.23743191	2.5829143	21	—	—
484740 2008 YH_{71}	18.1	X	66.75059	175.57503	313.74624	1.90506	0.1430431	0.25488919	2.4635900	21	3 21.2	20.6
484741 2008 YZ_{91}	17.3	X	89.30515	97.97070	289.00189	14.26815	0.0619230	0.23980482	2.5658472	21	—	—
484742 2008 YX_{100}	17.7	X	8.05374	280.78341	280.63269	11.13743	0.1688623	0.25387398	2.4701534	21	3 5.2	20.4
484743 2008 YL_{101}	17.5	X	33.59345	55.14803	117.02172	13.04668	0.1129512	0.25486570	2.4637414	21	3 28.1	20.3
484744 2008 YA_{106}	18.0	X	28.88246	26.74457	106.74436	5.70397	0.1680047	0.24515093	2.5284072	21	1 15.5	20.4
484745 2008 YG_{118}	17.6	X	327.93654	138.74820	300.75952	25.68662	0.1103883	0.38021818	1.8870387	21	—	—
484746 2008 YS_{132}	17.8	X	36.61124	126.87003	66.49585	2.93843	0.1546416	0.25794987	2.4440636	21	5 1.7	19.9
484747 2008 YW_{143}	17.7	X	58.79126	278.59215	245.32034	1.84850	0.1190892	0.25747762	2.4470512	21	4 23.9	20.3
484748 2008 YT_{145}	17.7	X	74.36731	299.07544	127.37426	0.74127	0.1695917	0.24438478	2.5336889	21	1 10.5	20.1
484749 2008 YB_{146}	17.7	X	21.40982	263.52579	234.19404	1.33510	0.1585239	0.24405311	2.5359839	21	1 7.4	20.0
484750 2008 YO_{150}	17.9	X	71.96904	263.26031	262.33337	1.96853	0.1324802	0.26225915	2.4172169	21	5 20.9	20.5
484751 2008 YT_{154}	17.9	X	14.28179	271.31018	301.56487	6.11825	0.0796610	0.25930665	2.4355307	21	4 11.3	20.7
484752 2008 YC_{159}	17.3	X	79.67577	176.60976	305.65018	6.90235	0.1593656	0.25614958	2.4555020	21	4 1.3	20.2
484753 2008 YN_{160}	18.3	X	204.58133	227.25694	347.97205	18.85195	0.0524590	0.37585876	1.9016019	21	—	—
484754 2008 YZ_{168}	17.9	X	101.80359	8.54537	73.19326	3.71920	0.2020925	0.25592621	2.4569305	21	3 22.3	20.9
484755 2009 AH_{10}	17.0	X	287.74163	7.12308	276.23492	8.55552	0.0755443	0.25894289	2.4378111	21	3 9.3	20.4
484756 2009 AR_{27}	18.2	X	348.65079	266.42871	116.35676	25.09256	0.1148499	0.37376286	1.9087042	21	12 20.1	20.0
484757 2009 BL_{2}	19.3	X	32.07373	56.03282	148.60021	7.15931	0.5933109	0.25090417	2.4896070	21	8 8.5	21.2
484758 2009 BW_{29}	17.2	X	259.49964	81.86176	125.74790	13.52986	0.1272734	0.23152979	2.6266254	21	—	—
484759 2009 BB_{35}	17.4	X	271.88466	135.96056	105.80411	6.71038	0.0427495	0.24122675	2.5557542	21	1 7.4	20.7
484760 2009 BP_{37}	17.9	X	53.48227	323.95839	120.63967	13.99599	0.2562992	0.24326852	2.5414336	21	—	—
484761 2009 BA_{43}	16.9	X	326.32727	17.43816	129.94833	17.41499	0.1495844	0.23191828	2.6236912	21	—	—
484762 2009 BL_{49}	17.6	X	267.36461	153.50652	115.09476	3.03241	0.0864791	0.24621642	2.5211075	21	1 30.9	21.1
484763 2009 BS_{49}	17.7	X	56.47519	48.29034	119.34912	3.68902	0.1269746	0.25658554	2.4527197	21	4 28.9	20.2
484764 2009 BZ_{50}	17.3	X	126.61832	83.11946	321.26930	3.86616	0.2530458	0.25295495	2.4761328	21	3 7.5	20.8
484765 2009 BL_{51}	17.4	X	38.41688	181.44254	326.36681	9.59405	0.0702691	0.24642137	2.5197095	21	2 22.5	20.3
484766 2009 BC_{61}	17.9	X	358.35088	104.13419	296.30487	19.21368	0.0554362	0.37837915	1.8931481	21	—	—
484767 2009 BQ_{66}	17.8	X	38.88682	211.18145	198.67601	3.05266	0.2723098	0.23292667	2.6161135	21	—	—
484768 2009 BJ_{68}	18.0	X	37.50388	166.44855	331.42941	5.24740	0.0558815	0.24409753	2.5356762	21	2 9.3	20.9
484769 2009 BT_{114}	16.7	X	180.64686	158.91174	117.22225	11.66704	0.0688725	0.22803556	2.6533894	21	—	—
484770 2009 BK_{126}	17.2	X	39.98062	295.74771	137.67472	10.67166	0.1790752	0.23609228	2.5926757	21	—	—
484771 2009 BH_{143}	17.5	X	333.03343	61.84555	119.81626	8.33550	0.1328355	0.23906811	2.5711157	21	—	—
484772 2009 BT_{149}	17.6	X	276.82957	272.01171	315.81251	1.28532	0.0913825	0.23428799	2.6059697	21	—	—
484773 2009 BY_{154}	18.0	X	53.80543	173.85100	51.12546	3.03570	0.1635052	0.26566355	2.3965219	21	7 25.6	20.5
484774 2009 BV_{156}	18.0	X	60.59138	294.41353	151.29383	6.57315	0.3068364	0.24374977	2.5380874	21	1 26.5	19.4
484775 2009 BH_{158}	17.6	X	334.53184	40.06175	136.81626	3.04584	0.1439145	0.23620044	2.5918841	21	—	—
484776 2009 BC_{159}	17.1	X	36.09520	171.90488	334.30421	15.94484	0.0738561	0.24451430	2.5327940	21	2 18.9	19.9
484777 2009 BJ_{162}	17.6	X	313.50471	152.01997	76.95275	3.54288	0.1265802	0.24415036	2.5353104	21	1 30.8	20.9
484778 2009 BD_{166}	18.3	X	17.87150	172.90296	318.85984	2.94765	0.1450797	0.24003904	2.5641778	21	—	—
484779 2009 BY_{171}	17.2	X	121.28839	269.28190	126.92375	6.65438	0.2307016	0.24521044	2.5279981	21	2 19.7	20.6
484780 2009 BU_{175}	18.4	X	309.12002	97.06110	2.45983	20.92426	0.1719967	0.37810427	1.8940655	21	—	—
484781 2009 BY_{177}	18.3	X	263.22478	342.66385	158.22038	23.15324	0.0416791	0.37253673	1.9128899	21	—	—
484782 2009 BQ_{185}	17.6	X	25.06426	168.48703	301.67816	11.44641	0.1855425	0.23907271	2.5710827	21	—	—
484783 2009 CJ	18.0	X	36.49987	3.53374	351.13753	18.13612	0.0532486	0.37491808	1.9047813	21	—	—
484784 2009 CL_{7}	17.6	X	16.99152	239.66658	136.12344	23.55784	0.0737433	0.37293925	1.9115133	21	—	—
484785 2009 CR_{15}	17.3	X	26.47739	337.14931	155.27507	15.28876	0.0487313	0.24252931	2.5465951	21	1 15.5	20.7
484786 2009 CC_{20}	17.7	X	63.30736	6.13906	131.37805	7.32190	0.0871030	0.25475734	2.4644400	21	3 24.1	20.5
484787 2009 CC_{30}	18.3	X	317.60661	76.43131	331.95997	19.00308	0.1016323	0.36852056	1.9267627	21	11 11.4	20.3
484788 2009 CO_{36}	17.8	X	13.95178	103.99168	62.92138	2.69636	0.1386496	0.24552055	2.5258690	21	2 7.1	20.2
484789 2009 CH_{41}	17.6	X	304.40994	289.03544	308.92852	4.08418	0.2266527	0.24328315	2.5413317	21	1 17.5	21.1
484790 2009 CC_{53}	17.1	X	322.41387	14.77035	148.52016	12.67786	0.1189709	0.23258152	2.6187010	21	—	—
484791 2009 DS	17.2	X	11.34173	32.44815	102.73101	10.16055	0.1042124	0.23875084	2.5733930	21	—	—
484792 2009 DD_{2}	16.9	X	21.90862	177.71276	331.74746	10.33297	0.0620415	0.24354045	2.5395415	21	2 2.4	19.9
484793 2009 DZ_{23}	18.1	X	239.58884	165.98022	1.66604	20.75110	0.0548966	0.37205427	1.9145433	21	—	—
484794 2009 DC_{36}	17.8	X	349.72209	231.59060	353.01263	7.86518	0.1586389	0.24726254	2.5139917	21	3 13.8	20.4
484795 2009 DE_{47}	18.5	X	350.34436	41.87656	29.83422	20.05891	0.2756562	0.85954880	1.0955252	21	—	—
484796 2009 DM_{75}	16.9	X	10.68546	173.46821	346.86272	12.93338	0.0720736	0.23975785	2.5661822	21	2 2.4	20.1
484797 2009 DU_{77}	17.1	X	73.71784	118.12835	346.28420	15.04474	0.0755634	0.24510652	2.5287126	21	2 22.4	20.1
484798 2009 DZ_{79}	16.8	X	218.39085	51.04871	159.81492	13.92774	0.1052301	0.21581637	2.7526213	21	12 27.9	21.0
484799 2009 DL_{87}	17.0	X	291.17365	261.15967	343.56822	25.35910	0.3498788	0.23566231	2.5958283	21	1 9.4	21.9
484800 2009 DJ_{88}	16.9	X	335.29763	327.66642	145.30948	9.71574	0.1791582	0.22571882	2.6715145	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
484801 2009 DU_{90}	17.7	X	68.08723	319.56104	151.46861	12.44997	0.1291021	0.24447986	2.5330319	21	2 27.0	20.2
484802 2009 DU_{124}	17.7	X	88.17034	75.02722	356.29124	10.79303	0.0599228	0.23762728	2.5814983	21	1 31.1	21.0
484803 2009 DT_{125}	17.9	X	314.40531	1.60515	187.98321	2.75365	0.1336825	0.23158889	2.6261784	21	—	—
484804 2009 DS_{126}	16.7	X	204.25169	358.74789	351.06783	15.29672	0.1405332	0.24321007	2.5418408	21	3 7.5	20.5
484805 2009 DE_{127}	18.4	X	297.69337	288.98976	171.17042	23.89647	0.0989968	0.37206260	1.9145147	21	—	—
484806 2009 DP_{131}	18.4	X	358.68755	301.57662	236.76521	1.75834	0.1250663	0.24085418	2.5583891	21	1 28.3	21.1
484807 2009 DO_{134}	17.6	X	359.19509	124.62527	49.52102	4.97981	0.1309848	0.24066671	2.5597175	21	1 24.9	20.5
484808 2009 DW_{134}	18.1	X	356.29584	5.09277	170.73551	6.10939	0.2246537	0.23942337	2.5685717	21	1 6.5	20.8
484809 2009 ER_{10}	17.5	X	32.22313	321.92278	156.51577	7.13658	0.0740866	0.23571205	2.5954631	21	1 6.7	20.5
484810 2009 EL_{11}	16.9	X	287.35831	205.37551	7.89686	13.54399	0.1230693	0.23379454	2.6096352	21	—	—
484811 2009 EW_{18}	18.1	X	0.78967	45.69285	157.09237	13.79847	0.1941334	0.24589892	2.5232772	21	2 26.5	20.2
484812 2009 EM_{23}	17.1	X	316.09673	158.82010	40.56004	6.17102	0.2309442	0.23144617	2.6272580	21	—	—
484813 2009 EF_{24}	17.6	X	335.13562	159.50062	15.96513	5.28627	0.1261965	0.23441317	2.6050419	21	—	—
484814 2009 FS_{1}	18.1	X	98.18629	257.25529	0.71865	18.81798	0.0968552	0.35721437	1.9672072	21	11 1.8	20.9
484815 2009 FC_{25}	16.7	X	290.26365	13.24365	153.83743	9.59161	0.2105424	0.22360099	2.6883567	21	—	—
484816 2009 FY_{27}	17.1	X	290.94497	25.53444	139.72644	14.53006	0.1900734	0.22317415	2.6917835	21	—	—
484817 2009 FF_{30}	17.4	X	85.29711	302.86913	143.64921	7.19924	0.1897564	0.24366769	2.5386574	21	3 3.3	20.2
484818 2009 FW_{34}	17.6	X	293.23616	203.22009	48.87001	5.78047	0.1978251	0.23574715	2.5952054	21	1 29.6	21.5
484819 2009 FD_{52}	16.7	X	204.14993	60.68930	151.28391	9.38090	0.0781723	0.21060130	2.7978775	21	12 16.2	20.9
484820 2009 FH_{54}	17.3	X	287.15091	17.87119	175.11670	13.17864	0.1238939	0.22495593	2.6775510	21	—	—
484821 2009 FF_{57}	17.7	X	357.10784	170.36877	6.05205	8.97796	0.0989953	0.23862477	2.5742993	21	1 30.9	20.8
484822 2009 FZ_{69}	17.3	X	268.24204	168.61055	79.00378	6.08531	0.1111606	0.22836678	2.6508232	21	1 7.1	21.2
484823 2009 FN_{73}	17.7	X	350.38333	113.82566	82.99423	4.91133	0.2073269	0.23944034	2.5684503	21	1 30.2	20.4
484824 2009 FS_{76}	17.5	X	292.18822	83.45167	151.01637	3.88343	0.2354032	0.22929795	2.6436417	21	1 2.4	21.7
484825 2009 GP_{3}	17.7	X	351.45956	348.37863	201.28715	3.64991	0.2141605	0.23793373	2.5792813	21	1 19.1	20.5
484826 2009 GY_{4}	17.8	X	330.11063	358.96679	215.47342	5.72721	0.1505544	0.23530815	2.5984323	21	1 29.2	21.1
484827 2009 GE_{5}	17.6	X	134.33952	138.28124	105.68910	24.45576	0.0702411	0.35867567	1.9618604	21	12 9.1	20.3
484828 2009 HM_{3}	18.1	X	19.58758	73.85312	81.67334	5.57979	0.1644172	0.23966027	2.5668788	21	2 1.5	20.6
484829 2009 HQ_{3}	17.2	X	37.05938	50.19077	51.68256	12.38368	0.1603518	0.23343501	2.6123140	21	—	—
484830 2009 HD_{4}	17.8	X	195.80863	124.82703	33.11623	21.24357	0.0463447	0.35829661	1.9632439	21	10 23.4	19.6
484831 2009 HL_{6}	17.6	X	6.51247	116.06568	94.22380	5.44785	0.2175295	0.24364283	2.5388301	21	3 24.3	19.7
484832 2009 HZ_{6}	17.1	X	39.64338	335.45234	131.06810	4.62175	0.0306500	0.22830538	2.6512985	21	1 5.0	20.6
484833 2009 HS_{8}	17.4	X	327.56213	16.12361	181.21445	13.96116	0.1407785	0.23130945	2.6282931	21	1 6.5	21.1
484834 2009 HC_{24}	17.1	X	60.89570	307.98789	106.34430	8.11801	0.0530054	0.21987966	2.7186044	21	—	—
484835 2009 HX_{39}	17.6	X	16.65631	24.63640	120.78943	4.07318	0.0749114	0.23579567	2.5948494	21	1 19.3	20.5
484836 2009 HD_{41}	17.2	X	185.07198	140.12150	150.08014	3.09554	0.1152937	0.22063729	2.7123774	21	—	—
484837 2009 HM_{48}	16.5	X	208.44547	201.46182	80.57419	14.44733	0.0671800	0.22112988	2.7083478	21	—	—
484838 2009 HE_{50}	17.3	X	333.60821	35.45411	162.60279	5.27939	0.0522603	0.23603635	2.5930852	21	1 28.2	20.6
484839 2009 HN_{59}	17.8	X	293.42418	84.65962	156.48651	6.60848	0.2831565	0.23022387	2.6365488	21	1 6.4	22.0
484840 2009 HU_{61}	17.7	X	16.80402	329.07335	208.23199	12.99716	0.2004532	0.24082147	2.5586208	21	2 18.2	20.2
484841 2009 HL_{62}	18.1	X	227.19156	79.18753	50.52393	22.05197	0.0985575	0.35674012	1.9689503	21	10 23.9	20.3
484842 2009 HS_{62}	17.3	X	280.45353	171.42684	46.65282	12.53275	0.1275460	0.22814296	2.6525566	21	—	—
484843 2009 HB_{66}	17.6	X	17.49134	310.92311	208.27782	13.16709	0.1937143	0.23536959	2.5979801	21	1 26.3	20.3
484844 2009 HL_{68}	17.9	X	325.13783	173.27153	54.07483	2.90833	0.1510991	0.23653172	2.5894635	21	2 11.2	21.1
484845 2009 HA_{73}	18.1	X	65.26863	112.97168	193.47178	21.25050	0.0913230	0.35700874	1.9679625	21	12 8.5	20.9
484846 2009 HO_{76}	17.4	X	319.70932	22.88444	202.45960	7.96541	0.1484386	0.23701725	2.5859259	21	1 28.9	20.9
484847 2009 HE_{81}	17.4	X	314.56315	50.37403	190.00315	13.44934	0.2264693	0.23413469	2.6071071	21	1 30.1	21.2
484848 2009 HG_{83}	16.8	X	347.75631	327.54164	139.99047	10.55865	0.1690393	0.21907386	2.7252667	21	—	—
484849 2009 HK_{85}	17.1	X	347.98563	118.62618	71.77024	18.03206	0.1513122	0.23349473	2.6118686	21	1 30.2	20.5
484850 2009 HF_{88}	19.3	X	9.51148	283.04960	222.51964	24.82779	0.5108502	0.23824340	2.5770458	21	—	—
484851 2009 HP_{89}	17.2	X	310.73301	175.11482	46.19684	15.18514	0.2007346	0.23114571	2.6295342	21	1 10.6	21.2
484852 2009 HQ_{93}	17.7	X	313.15272	58.72184	191.34160	13.10825	0.2167609	0.23509519	2.6000013	21	2 10.8	21.5
484853 2009 HT_{96}	17.0	X	224.69067	61.70674	143.11073	6.00257	0.0879922	0.20982177	2.8048030	21	12 28.6	21.0
484854 2009 HE_{100}	17.6	X	43.52975	349.09850	155.39800	5.21962	0.1876407	0.23850961	2.5751278	21	3 7.9	19.6
484855 2009 HL_{102}	17.3	X	316.46747	199.00147	56.00735	13.00607	0.1454094	0.23859630	2.5745040	21	3 14.7	20.8
484856 2009 JF_{3}	17.1	X	289.83185	78.63754	190.17515	13.51612	0.1388403	0.23366458	2.6106027	21	2 18.2	21.0
484857 2009 JP_{4}	16.9	X	257.80980	169.19770	153.08682	18.68698	0.2207941	0.23787111	2.5797339	21	3 20.8	21.2
484858 2009 JK_{5}	17.2	X	33.22096	353.79405	138.26195	14.13541	0.1030875	0.23446624	2.6046488	21	1 26.6	20.0
484859 2009 JE_{13}	17.3	X	309.69936	148.29891	68.08973	5.55550	0.1977916	0.23083847	2.6318669	21	1 2.5	21.1
484860 2009 JQ_{15}	16.5	X	336.38717	63.98403	137.44263	30.74009	0.2920449	0.23383120	2.6093625	21	1 4.1	20.3
484861 2009 KL_{7}	16.6	X	344.27102	260.65462	302.05914	26.38012	0.3919132	0.23535434	2.5980923	21	1 1.5	20.0
484862 2009 KZ_{8}	16.9	X	259.84811	25.61266	231.51619	11.50467	0.2145123	0.22422088	2.6833995	21	1 2.3	21.6
484863 2009 KA_{26}	16.9	X	199.34673	183.88115	111.93748	14.56448	0.1895016	0.21720197	2.7409022	21	1 2.0	21.5
484864 2009 LH_{1}	17.4	X	312.16543	35.38909	214.12353	12.12857	0.2434033	0.23425312	2.6062284	21	2 4.3	21.4
484865 2009 NJ_{2}	16.2	X	205.68432	323.11866	319.99278	14.52501	0.1315999	0.20608425	2.8386130	21	—	—
484866 2009 ON	16.1	X	173.10922	317.67979	312.28435	7.09578	0.1311836	0.19825622	2.9128503	21	—	—
484867 2009 OD_{6}	17.2	X	286.78295	113.91551	156.52066	13.28664	0.2561476	0.22583140	2.6706266	21	2 6.8	21.4
484868 2009 OP_{8}	15.8	X	13.32176	107.30367	300.54366	18.69783	0.2431785	0.17780236	3.1321632	21	—	—
484869 2009 OH_{9}	16.0	X	38.27949	170.95063	192.20228	12.16611	0.2808068	0.17848653	3.1241539	21	—	—
484870 2009 OU_{13}	17.0	X	292.51229	321.14939	315.69298	12.84797	0.2428362	0.22655220	2.6649590	21	2 20.1	21.1
484871 2009 OB_{20}	15.6	X	67.18758	355.27790	318.24866	19.26056	0.2679913	0.17810552	3.1286078	21	12 9.1	20.8
484872 2009 OH_{21}	16.1	X	224.99820	176.07864	124.34435	11.47041	0.2507420	0.21346585	2.7727909	21	1 27.4	20.9
484873 2009 OD_{24}	16.4	X	7.94751	26.96504	22.95103	15.98590	0.0993690	0.17670200	3.1451528	21	12 29.2	20.8
484874 2009 PW	17.0	X	167.44162	357.41486	318.73416	11.54323	0.1019099	0.20260370	2.8710305	21	—	—
484875 2009 PL_{2}	16.1	X	42.63229	34.04898	317.31585	16.57218	0.2135734	0.17863852	3.1223816	21	12 22.2	20.6
484876 2009 PF_{4}	16.6	X	262.30446	326.33720	307.11680	7.69367	0.1768821	0.21656011	2.7463154	21	1 28.5	20.9
484877 2009 PB_{5}	16.2	X	29.35760	191.39728	167.45744	13.91934	0.2562040	0.17588128	3.1549294	21	12 18.9	20.5
484878 2009 PB_{19}	16.7	X	66.91944	8.16385	349.56924	8.29581	0.1238333	0.18329485	3.0692755	21	—	—
484879 2009 PD_{19}	16.3	X	17.34149	64.10708	354.16205	8.35705	0.0555199	0.18443229	3.0566431	21	—	—
484880 2009 QE_{12}	16.8	X	247.16308	125.29979	153.19074	20.76064	0.2270554	0.21365349	2.7711672	21	1 18.6	21.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
484881 2009 QF_{14}	17.1	X	289.34920	284.79873	332.83616	8.77064	0.2934057	0.21956135	2.7212313	21	1 24.8	21.6
484882 2009 QQ_{31}	15.8	X	11.77063	19.09467	343.71847	13.53844	0.1870775	0.17105511	3.2139961	21	11 8.9	19.9
484883 2009 QH_{33}	15.9	X	347.33464	122.29561	322.76485	26.45685	0.1867418	0.17894915	3.1187672	21	—	—
484884 2009 QT_{34}	16.6	X	100.43461	59.52684	296.73724	13.24760	0.2737444	0.18914219	3.0056872	21	—	—
484885 2009 QT_{40}	15.5	X	57.80983	9.51401	345.58312	16.90662	0.1812063	0.18064731	3.0991913	21	—	—
484886 2009 QK_{41}	16.9	X	66.96614	208.46363	148.61530	12.19177	0.1396914	0.18423728	3.0587997	21	—	—
484887 2009 QH_{42}	16.0	X	16.75159	217.89395	168.35027	17.35216	0.2181148	0.17626413	3.1503593	21	12 27.9	20.2
484888 2009 QY_{46}	16.1	X	90.79929	192.94454	130.89303	12.59767	0.1322633	0.18388148	3.0627441	21	12 30.9	20.9
484889 2009 QE_{48}	15.9	X	58.96709	194.57498	156.60647	12.51233	0.1526549	0.17808960	3.1287943	21	12 30.9	20.6
484890 2009 QR_{56}	16.0	X	30.54376	23.88623	355.09927	9.27808	0.1406243	0.17928812	3.1148350	21	12 29.1	20.3
484891 2009 QQ_{58}	16.8	X	53.13094	5.94609	350.82989	9.32947	0.1183112	0.18055251	3.1002760	21	12 27.6	21.3
484892 2009 QG_{59}	16.0	X	43.66964	13.77429	13.15216	17.79608	0.1737834	0.18111955	3.0938019	21	—	—
484893 2009 QP_{59}	16.0	X	23.96830	87.51137	309.42890	24.90873	0.2500618	0.17936452	3.1139504	21	—	—
484894 2009 QM_{60}	16.0	X	53.46488	43.73323	320.93143	26.90714	0.1503683	0.18146797	3.0898405	21	—	—
484895 2009 QE_{64}	16.7	X	104.06723	335.83964	355.61546	2.29783	0.1799984	0.18947133	3.0022053	21	—	—
484896 2009 RC_{1}	15.3	X	329.56888	39.86816	24.86740	11.17414	0.1978033	0.17176817	3.2050951	21	11 13.4	18.7
484897 2009 RJ_{1}	16.4	X	30.93400	41.13026	326.31235	16.09113	0.2455088	0.17542043	3.1604525	21	12 31.6	20.8
484898 2009 RL_{7}	15.7	X	13.76642	71.19036	333.62268	14.85296	0.2272118	0.17747064	3.1360649	21	—	—
484899 2009 RA_{9}	16.3	X	352.56188	259.73820	197.77480	9.18148	0.0872581	0.18366647	3.0651340	21	—	—
484900 2009 RJ_{9}	16.3	X	36.74697	177.34435	191.48928	13.74618	0.2017458	0.17532296	3.1616238	21	12 30.7	20.9
484901 2009 RH_{15}	16.7	X	69.97761	146.91799	190.53348	10.62560	0.1413688	0.17693419	3.1424006	21	12 24.8	21.5
484902 2009 RM_{16}	16.6	X	80.55069	158.19168	188.74715	10.33749	0.0866313	0.18020873	3.1042176	21	—	—
484903 2009 RD_{34}	15.8	X	156.00674	274.31131	21.03238	22.43507	0.1214366	0.18605233	3.0388736	21	—	—
484904 2009 RL_{37}	16.0	X	137.10201	269.58224	4.30929	10.05822	0.0186754	0.17824282	3.1270009	21	12 10.9	20.7
484905 2009 RB_{45}	15.8	X	299.90016	203.96473	200.92170	11.77099	0.0834758	0.15828428	3.3846274	21	9 7.8	20.5
484906 2009 RF_{45}	16.9	X	153.41725	301.87910	8.73297	10.87165	0.1311772	0.19064274	2.9898945	21	—	—
484907 2009 RH_{47}	18.6	X	192.72221	42.16446	0.62727	5.43499	0.1965200	0.30096780	2.2052408	21	4 26.1	22.0
484908 2009 RD_{62}	18.1	X	205.05186	204.38528	191.82076	5.59044	0.2252305	0.30138508	2.2032049	21	4 30.9	21.7
484909 2009 RF_{62}	18.2	X	218.77004	8.26935	27.52355	3.89721	0.1219046	0.30474166	2.1869969	21	5 14.4	21.3
484910 2009 RO_{73}	16.1	X	62.20291	319.51234	16.29867	10.24132	0.0893391	0.17342935	3.1845958	21	12 5.6	20.8
484911 2009 SW_{3}	16.1	X	60.09455	357.02123	342.17725	10.18042	0.2185712	0.17757783	3.1348027	21	12 27.1	20.9
484912 2009 SJ_{17}	16.1	X	26.46908	193.89066	174.70791	18.13431	0.2055766	0.17646504	3.1479677	21	12 19.3	20.5
484913 2009 SM_{19}	18.1	X	184.58232	229.32685	156.77644	5.55583	0.2374332	0.29682617	2.2257066	21	4 2.3	21.8
484914 2009 SA_{21}	15.8	X	56.52331	335.31886	352.54029	27.27769	0.1568050	0.17417940	3.1754469	21	11 20.6	20.9
484915 2009 SR_{22}	16.9	X	32.84531	157.91071	197.79840	10.17039	0.2245833	0.17699564	3.1416732	21	12 14.9	21.1
484916 2009 SH_{26}	15.8	X	36.99062	175.72773	190.87426	28.57903	0.1616953	0.17504632	3.1649540	21	12 22.2	20.7
484917 2009 SF_{29}	16.6	X	67.76080	171.65871	192.03740	10.41968	0.0223686	0.18062282	3.0994715	21	—	—
484918 2009 SM_{42}	16.0	X	347.05403	82.20120	10.01988	18.06017	0.0789508	0.17846162	3.1244446	21	—	—
484919 2009 SH_{51}	16.2	X	36.28436	50.55027	6.97239	9.50330	0.1017552	0.18682881	3.0304479	21	—	—
484920 2009 SL_{52}	16.0	X	10.17431	21.55131	18.28099	10.59676	0.0821516	0.17543981	3.1602198	21	12 16.6	20.3
484921 2009 SS_{66}	16.4	X	78.09194	167.12933	180.87811	9.14166	0.0966653	0.17888456	3.1195179	21	—	—
484922 2009 SZ_{71}	16.9	X	333.41130	114.82623	354.59534	11.12848	0.0858388	0.18400180	3.0614088	21	—	—
484923 2009 SZ_{76}	16.3	X	67.86980	199.61165	186.05756	16.72378	0.1424526	0.18337463	3.0683853	21	—	—
484924 2009 SO_{99}	15.8	X	36.24025	43.66019	320.89206	27.19996	0.2356653	0.17524236	3.1625931	21	—	—
484925 2009 SB_{103}	16.6	X	144.95285	333.09905	33.75892	25.52028	0.2080620	0.27989037	2.3146078	21	2 12.1	20.5
484926 2009 SV_{108}	15.7	X	59.83218	130.23298	224.73682	16.39870	0.2077236	0.17656785	3.1467456	21	—	—
484927 2009 SD_{110}	15.9	X	50.66678	16.70328	349.09058	17.35231	0.2045713	0.17839694	3.1251997	21	—	—
484928 2009 SE_{113}	16.9	X	3.20013	204.75481	218.42444	7.69440	0.0763236	0.17981121	3.1087910	21	—	—
484929 2009 ST_{114}	16.8	X	157.01495	310.61845	350.30175	10.07821	0.1416812	0.19124089	2.9836569	21	—	—
484930 2009 SV_{115}	17.0	X	13.18066	215.43838	177.16445	3.39906	0.1492821	0.17759356	3.1346176	21	12 21.3	21.0
484931 2009 SL_{127}	16.7	X	61.09308	3.03835	353.90407	8.47337	0.0969437	0.17782137	3.1319399	21	—	—
484932 2009 SO_{143}	18.8	X	143.75164	81.75368	9.83241	5.82591	0.1915623	0.29762225	2.2217360	21	5 14.5	22.2
484933 2009 SC_{147}	15.6	X	3.47169	45.25868	40.50789	11.87387	0.0659385	0.18079439	3.0975103	21	—	—
484934 2009 SA_{150}	15.9	X	45.57054	1.31786	353.16789	10.47052	0.2228729	0.17590652	3.1546276	21	12 29.6	20.5
484935 2009 SS_{156}	16.8	X	103.21026	129.13150	184.83400	12.22097	0.1484133	0.18051687	3.1006841	21	12 31.0	22.0
484936 2009 SA_{172}	16.1	X	55.24643	345.96956	25.12252	18.50298	0.0731198	0.17664793	3.1457945	21	—	—
484937 2009 SR_{174}	16.3	X	29.59357	29.56370	351.71851	13.07533	0.0945864	0.17765906	3.1338471	21	12 23.7	20.7
484938 2009 SZ_{177}	16.0	X	30.92435	353.74550	17.88511	16.63396	0.0898568	0.17372725	3.1809542	21	12 8.7	20.6
484939 2009 SC_{180}	16.3	X	21.95949	189.83818	202.69791	16.78271	0.1906820	0.17424492	3.1746508	21	—	—
484940 2009 SD_{181}	16.7	X	332.32711	282.91293	190.57291	7.00854	0.0798055	0.18522638	3.0479007	21	—	—
484941 2009 SA_{187}	16.2	X	98.45431	275.39830	44.74201	10.10778	0.0937095	0.17769594	3.1334136	21	12 29.7	21.1
484942 2009 ST_{190}	16.5	X	12.69884	92.23801	348.57724	8.91971	0.1183784	0.18453226	3.0555391	21	—	—
484943 2009 SW_{190}	16.1	X	2.76912	118.36414	346.54437	8.83686	0.0690645	0.18859217	3.0115283	21	—	—
484944 2009 SM_{220}	16.2	X	91.52052	186.10613	156.87811	8.72734	0.1187144	0.18395080	3.0619747	21	—	—
484945 2009 SL_{240}	16.5	X	49.87305	238.24732	146.35170	17.54986	0.3258714	0.18034584	3.1026442	21	—	—
484946 2009 SN_{261}	18.8	X	197.65303	178.01583	234.89776	2.25467	0.1805821	0.30294321	2.1956439	21	5 15.5	22.3
484947 2009 SK_{271}	15.9	X	122.09088	310.46856	11.82453	10.73741	0.0586691	0.18229524	3.0804855	21	—	—
484948 2009 SD_{277}	16.8	X	127.88966	206.64493	83.17307	2.59446	0.1285524	0.18159639	3.0883836	21	12 25.6	21.7
484949 2009 SU_{279}	16.3	X	38.55232	344.96002	67.06121	4.84066	0.1526874	0.18306669	3.0718252	21	—	—
484950 2009 SO_{284}	17.8	X	223.90112	66.82174	304.94058	7.72859	0.1509940	0.30214294	2.1995192	21	4 12.6	21.3
484951 2009 ST_{293}	16.7	X	356.76487	186.24336	230.65220	8.52918	0.0840791	0.17603723	3.1530658	21	12 19.7	20.8
484952 2009 SB_{298}	16.4	X	63.64913	318.92109	38.26688	10.34373	0.0955215	0.17907384	3.1173192	21	—	—
484953 2009 SC_{303}	17.1	X	139.18707	304.56182	359.30303	9.33654	0.0861090	0.18826912	3.0149723	21	—	—
484954 2009 SO_{320}	16.5	X	31.25807	240.95123	181.11022	7.70536	0.1123347	0.18597272	3.0397408	21	—	—
484955 2009 SC_{337}	15.9	X	61.25634	119.00294	242.54063	14.85778	0.2644432	0.18000752	3.1065305	21	—	—
484956 2009 SL_{340}	16.8	X	40.69528	186.06676	188.66905	14.15949	0.0512370	0.17695449	3.1421602	21	12 22.9	21.4
484957 2009 SK_{342}	16.9	X	86.22282	110.42661	207.47057	9.72788	0.0588233	0.17371418	3.1811137	21	12 9.9	21.6
484958 2009 SG_{345}	16.0	X	98.59616	341.10796	16.80177	12.20115	0.0550548	0.18480132	3.0525726	21	—	—
484959 2009 SK_{361}	15.5	X	29.00903	337.42590	36.95394	27.39190	0.1552842	0.17376698	3.1804693	21	12 16.1	20.1
484960 2009 TU_{6}	17.7	X	194.29578	177.01765	233.70768	7.01601	0.2323084	0.30123312	2.2039458	21	5 9.6	21.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
484961 2009 TC_{7}	16.2	X	108.52053	123.63435	224.33177	11.62547	0.1735055	0.18588924	3.0406508	21	—	—
484962 2009 TJ_{7}	15.7	X	114.15581	355.66896	9.34212	10.06710	0.0979044	0.18870703	3.0103061	21	—	—
484963 2009 TY_{7}	18.1	X	198.23350	27.19182	34.27375	5.80711	0.2208976	0.30279136	2.1963779	21	5 26.1	21.6
484964 2009 TR_{10}	18.1	X	248.55019	337.66984	36.57704	5.20850	0.2165483	0.30813590	2.1709068	21	5 9.4	21.3
484965 2009 TF_{17}	18.3	X	170.67444	349.63192	61.33614	7.81566	0.2415082	0.29491348	2.2353196	21	4 23.2	22.0
484966 2009 TF_{18}	16.6	X	154.16384	317.75790	357.76504	10.23954	0.0760139	0.19598520	2.9353092	21	—	—
484967 2009 TN_{20}	17.9	X	220.20894	357.96571	31.35829	7.65904	0.1656784	0.30487897	2.1863402	21	5 4.9	21.3
484968 2009 TY_{30}	16.8	X	171.14575	149.01693	128.82643	3.55048	0.1498003	0.18756336	3.0225306	21	—	—
484969 2009 TE_{32}	15.8	X	10.74420	7.40468	35.78738	18.06203	0.1650895	0.17495495	3.1660557	21	—	—
484970 2009 TV_{37}	15.4	X	95.69466	76.44273	234.41242	14.90718	0.2351772	0.17683754	3.1435454	21	12 26.1	20.7
484971 2009 TY_{37}	18.4	X	216.19012	19.84563	2.09399	6.14992	0.1876354	0.30256211	2.1974872	21	4 20.0	21.8
484972 2009 TG_{39}	15.7	X	13.36237	273.96154	86.69212	16.69206	0.2291895	0.16672487	3.2694081	21	11 22.6	19.5
484973 2009 TK_{39}	15.6	X	67.24908	112.38963	244.95547	20.12655	0.2394652	0.17840493	3.1251064	21	—	—
484974 2009 TY_{45}	17.1	X	142.06727	281.86489	142.42649	22.92353	0.2352381	0.28968596	2.2621310	21	4 20.4	21.0
484975 2009 TX_{46}	15.6	X	58.27383	351.73899	36.45328	17.59562	0.1013025	0.18348211	3.0671868	21	—	—
484976 2009 UN_{3}	18.5	X	81.56604	338.79484	141.96992	37.45324	0.5763080	0.27787520	2.3257848	21	6 17.6	23.0
484977 2009 UL_{11}	16.0	X	155.11739	237.82318	37.94667	15.84088	0.0340811	0.18119597	3.0929319	21	—	—
484978 2009 UY_{16}	15.0	X	16.28795	122.11628	249.72175	22.11572	0.1778561	0.17099304	3.2147738	21	12 2.2	18.6
484979 2009 UK_{17}	16.0	X	99.47955	95.53221	247.90449	8.22602	0.0927928	0.18479801	3.0526091	21	—	—
484980 2009 UP_{24}	16.2	X	351.29131	261.92511	218.41000	16.25266	0.0388243	0.18342042	3.0678745	21	—	—
484981 2009 UB_{55}	18.6	X	239.93802	322.70263	29.91316	2.10128	0.2262742	0.30204424	2.1999983	21	4 3.8	22.2
484982 2009 UB_{58}	18.2	X	213.38034	6.84304	30.45370	7.88628	0.1704433	0.30277636	2.1964504	21	5 8.6	21.5
484983 2009 UZ_{60}	15.8	X	324.65651	60.82622	45.63136	10.94793	0.0699243	0.17893572	3.1189232	21	—	—
484984 2009 UW_{63}	16.4	X	25.61289	333.96871	46.25870	12.27466	0.0640584	0.17315470	3.1879624	21	12 10.4	20.9
484985 2009 UT_{77}	16.4	X	121.32277	290.52402	19.54798	9.49422	0.0617569	0.17917210	3.1161794	21	—	—
484986 2009 UE_{88}	15.6	X	58.70431	322.77800	41.29635	28.08340	0.1316033	0.17671343	3.1450171	21	—	—
484987 2009 UB_{91}	15.9	X	114.42216	82.14399	245.65019	9.37354	0.0844669	0.18439544	3.0570504	21	—	—
484988 2009 UL_{98}	15.6	X	239.92910	153.44059	54.33843	10.69266	0.0475277	0.17832000	3.1260987	21	—	—
484989 2009 UM_{103}	18.3	X	184.20376	213.38141	233.10321	2.59124	0.1112459	0.30343155	2.1932875	21	6 16.6	21.2
484990 2009 UR_{112}	16.7	X	335.46153	36.18069	59.33251	11.34448	0.1872678	0.17308244	3.1888497	21	—	—
484991 2009 UG_{140}	15.5	X	351.10612	232.15698	185.04806	13.38664	0.1605704	0.16878000	3.2428142	21	12 15.6	19.5
484992 2009 UJ_{147}	16.3	X	53.56894	138.52177	235.92203	8.14346	0.0763676	0.17467147	3.1694804	21	—	—
484993 2009 UF_{149}	16.0	X	235.33021	320.24489	236.12620	9.77316	0.0256179	0.17376140	3.1805375	21	12 30.8	20.7
484994 2009 VN	15.8	X	68.17699	53.24983	309.10312	11.03867	0.1419812	0.17785493	3.1315458	21	—	—
484995 2009 VZ_{14}	18.6	X	312.71524	310.44064	10.56469	3.53493	0.0333823	0.30799482	2.1715697	21	6 15.6	20.8
484996 2009 VK_{18}	15.8	X	79.00006	316.83824	44.98102	17.51225	0.0839617	0.17781675	3.1319941	21	—	—
484997 2009 VC_{19}	18.6	X	193.93065	48.55996	17.53201	3.39952	0.1655060	0.30196870	2.2003652	21	5 29.1	21.9
484998 2009 VR_{34}	16.4	X	88.41271	327.01087	36.31443	11.39684	0.0160110	0.17923989	3.1153937	21	—	—
484999 2009 VT_{35}	16.0	X	331.90120	226.71370	254.12011	9.43689	0.0782494	0.17695806	3.1421179	21	—	—
485000 2009 VD_{36}	15.9	X	266.04285	131.64951	43.10339	19.16586	0.0460480	0.17448184	3.1717764	21	—	—
485001 2009 VG_{37}	17.8	X	203.37035	193.08008	222.83853	6.78808	0.1509811	0.30207183	2.1998643	21	5 25.9	21.1
485002 2009 VE_{40}	17.6	X	256.17499	228.03221	126.97870	5.75926	0.2112579	0.30667196	2.1778101	21	4 24.9	20.9
485003 2009 VM_{68}	18.5	X	146.09136	122.13107	343.89247	1.01442	0.1480297	0.29630153	2.2283331	21	6 3.5	21.7
485004 2009 VN_{71}	15.4	X	187.79943	183.24392	70.95153	16.64596	0.1387110	0.17473693	3.1686887	21	—	—
485005 2009 VG_{74}	17.8	X	111.74996	359.59022	42.39376	2.70871	0.1013085	0.28012755	2.3133011	21	1 18.6	20.3
485006 2009 VE_{83}	16.0	X	118.65875	274.82389	36.23261	18.45782	0.0428588	0.17504559	3.1649628	21	—	—
485007 2009 VG_{90}	16.0	X	254.77425	312.81740	269.53379	9.86992	0.0188105	0.18209800	3.0827095	21	—	—
485008 2009 VR_{92}	15.7	X	95.17594	290.30209	72.36439	27.32176	0.2138701	0.18165101	3.0877645	21	—	—
485009 2009 VQ_{114}	18.3	X	154.65976	146.15436	280.44220	5.32643	0.2038945	0.28770283	2.2725143	21	4 23.0	21.9
485010 2009 VS_{116}	17.9	X	237.02020	277.64148	85.71704	6.06762	0.2050190	0.29476117	2.2360896	21	4 19.1	21.4
485011 2009 WD_{9}	17.9	X	214.51668	305.51989	69.31867	6.10186	0.1893779	0.29790625	2.2203238	21	4 13.8	21.4
485012 2009 WO_{15}	18.6	X	120.73945	273.81966	213.77820	3.55240	0.1505412	0.29352079	2.2423848	21	6 5.4	21.4
485013 2009 WN_{19}	18.5	X	126.67007	310.98833	173.53991	4.33541	0.0694697	0.29823016	2.2187158	21	5 29.2	21.2
485014 2009 WA_{32}	18.2	X	177.78761	182.59094	224.96940	2.22142	0.2112333	0.29382916	2.2408156	21	4 21.4	21.8
485015 2009 WO_{32}	16.2	X	52.52524	345.24943	68.47254	15.43541	0.1123349	0.18242203	3.0790580	21	—	—
485016 2009 WN_{36}	18.5	X	234.47729	81.29539	268.98438	3.22521	0.2157168	0.29873958	2.2161928	21	3 25.8	22.2
485017 2009 WN_{53}	17.7	X	190.83778	351.04257	69.17835	6.57980	0.2324037	0.29951114	2.2123851	21	5 19.7	21.3
485018 2009 WZ_{58}	16.6	X	223.97534	348.04250	222.54580	10.52959	0.1218862	0.17280875	3.1922157	21	12 22.8	21.4
485019 2009 WC_{65}	16.6	X	320.15256	76.52305	21.86231	16.09495	0.2305654	0.17392526	3.1785395	21	12 6.9	20.1
485020 2009 WV_{73}	18.3	X	242.79405	208.74711	146.53832	1.11719	0.2234539	0.30097931	2.2051846	21	4 10.0	21.7
485021 2009 WX_{77}	17.8	X	248.51014	317.04302	46.94572	6.82759	0.1883670	0.30266635	2.1969826	21	4 29.3	20.9
485022 2009 WL_{84}	16.0	X	294.15073	245.56366	277.13313	8.49975	0.0941472	0.17537870	3.1609538	21	—	—
485023 2009 WO_{86}	16.0	X	142.49745	258.43000	41.91354	9.65104	0.0880675	0.17603868	3.1530484	21	—	—
485024 2009 WP_{86}	18.5	X	231.42928	115.54614	269.22322	6.00182	0.1599243	0.30266694	2.1969798	21	5 10.3	21.7
485025 2009 WN_{88}	16.0	X	119.99841	263.02781	81.17266	10.82803	0.1360373	0.18142535	3.0903244	21	—	—
485026 2009 WK_{89}	15.7	X	63.97979	291.63621	89.82980	10.49542	0.1536482	0.17668046	3.1454084	21	—	—
485027 2009 WA_{92}	16.1	X	158.58699	3.52745	274.21082	11.07032	0.1172585	0.17564240	3.1577893	21	—	—
485028 2009 WG_{98}	16.5	X	106.32519	284.39393	35.36998	11.70380	0.0182223	0.17412665	3.1760882	21	12 30.6	21.2
485029 2009 WH_{98}	15.9	X	284.63808	249.56819	254.35678	8.67486	0.0686720	0.17262309	3.1945042	21	12 23.9	20.1
485030 2009 WJ_{99}	15.5	X	146.06956	238.66613	46.44640	16.91524	0.2032298	0.17892217	3.1190806	21	—	—
485031 2009 WC_{142}	15.9	X	14.11371	147.32492	266.92623	15.24932	0.0896965	0.17248891	3.1961606	21	—	—
485032 2009 WD_{142}	15.4	X	36.13734	316.23126	90.56885	16.99684	0.0949898	0.17546843	3.1598761	21	—	—
485033 2009 WU_{218}	16.0	X	174.76278	232.30800	69.83948	12.49947	0.1651848	0.18560302	3.0437760	21	—	—
485034 2009 WU_{232}	16.4	X	5.34278	31.75928	66.12302	19.32286	0.0674844	0.18019896	3.1043298	21	—	—
485035 2009 WJ_{234}	17.9	X	185.88227	138.29769	271.26888	9.51387	0.1593532	0.29352646	2.2423559	21	4 27.1	21.4
485036 2009 YT	16.1	X	25.57024	0.14926	15.86959	9.31997	0.1554054	0.17480680	3.1678444	21	12 18.3	20.3
485037 2009 YG_{10}	18.1	X	85.22337	347.21784	141.97292	3.07942	0.1214361	0.28327994	2.2961072	21	4 16.0	20.5
485038 2009 YJ_{12}	18.1	X	42.15954	124.53575	78.49973	5.97967	0.1594618	0.28605045	2.2812574	21	5 26.9	19.7
485039 2010 AE_{27}	18.5	X	120.12821	322.60152	142.75295	5.56838	0.1776779	0.28266287	2.2994477	21	5 10.4	21.6
485040 2010 AH_{27}	17.6	X	117.27287	236.32236	289.85606	4.38891	0.1742414	0.29164430	2.2519931	21	7 27.4	20.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
485041 2010 AH_{28}	17.2	X	342.06005	281.76870	317.86108	5.03677	0.1243788	0.28243499	2.3006844	21	3 18.3	19.5
485042 2010 AN_{29}	18.3	X	162.61485	92.43303	314.87811	2.20051	0.2312503	0.28733591	2.2744485	21	4 8.5	21.9
485043 2010 AO_{53}	18.1	X	131.04516	325.98958	142.33032	8.59833	0.1744725	0.28561484	2.2835764	21	5 26.6	21.5
485044 2010 AA_{78}	18.3	X	259.17698	53.31045	286.94425	4.25098	0.1931635	0.29682148	2.2257301	21	4 5.6	21.8
485045 2010 AO_{81}	18.1	X	86.59916	194.08525	23.13280	6.27240	0.1262908	0.29084592	2.2561124	21	8 28.7	20.9
485046 2010 AZ_{83}	17.4	X	2.04005	124.86612	104.09168	12.41760	0.2186302	0.26829593	2.3808206	21	4 11.9	19.5
485047 2010 BD_{4}	18.0	X	123.63457	53.22203	89.65543	3.70174	0.1451406	0.29000820	2.2604550	21	6 29.5	21.0
485048 2010 BQ_{5}	15.4	X	65.98085	21.45351	313.17524	26.20122	0.1024393	0.17308486	3.1888199	21	12 13.9	20.4
485049 2010 CP_{31}	18.4	X	96.84428	15.58350	137.44759	3.00535	0.1107523	0.28504473	2.2866202	21	6 5.0	21.0
485050 2010 CA_{43}	17.9	X	122.28991	106.42764	44.44484	7.23786	0.1750715	0.29025145	2.2591919	21	7 13.4	21.2
485051 2010 CM_{44}	19.3	X	61.53050	197.09864	10.79022	6.27745	0.4791951	0.27864790	2.3214831	21	9 2.8	22.7
485052 2010 CE_{80}	17.9	X	36.13399	228.98896	347.30007	5.67465	0.1200135	0.27951226	2.3166947	21	5 29.8	20.1
485053 2010 CB_{103}	17.8	X	334.73392	131.89377	142.51761	21.46039	0.1034785	0.28263479	2.2996000	21	5 11.6	20.8
485054 2010 CQ_{106}	18.0	X	86.44674	235.15464	334.39228	6.80808	0.1286494	0.29241576	2.2480305	21	8 15.8	20.6
485055 2010 CE_{150}	16.6	X	344.04838	293.64672	329.01446	28.63052	0.2342716	0.27908727	2.3190460	21	3 22.1	19.5
485056 2010 CB_{173}	17.1	X	334.95341	295.36203	339.33346	22.62613	0.2537317	0.27307086	2.3529849	21	3 28.2	19.8
485057 2010 CK_{183}	17.9	X	71.38583	89.44531	168.25517	3.78840	0.1558781	0.29359524	2.2420057	21	10 7.8	20.6
485058 2010 CW_{247}	17.9	X	154.57287	302.74317	130.63052	8.73581	0.2396919	0.28743157	2.2739439	21	5 9.8	21.7
485059 2010 DP_{6}	17.8	X	5.80400	69.24893	168.39044	4.34377	0.1998943	0.27456736	2.3444273	21	4 30.6	19.3
485060 2010 DR_{6}	18.2	X	20.32639	29.65486	180.31412	2.44899	0.1314750	0.27386202	2.3484510	21	4 19.8	20.1
485061 2010 DX_{36}	17.9	X	10.91675	258.03751	345.09483	4.28775	0.1811524	0.27906383	2.3191759	21	5 20.8	19.5
485062 2010 DQ_{44}	18.4	X	83.82060	329.01497	170.28281	3.57948	0.1009888	0.27503676	2.3417591	21	4 25.9	21.1
485063 2010 DB_{52}	17.2	X	302.00458	115.09737	180.08999	15.33988	0.2202943	0.25931768	2.4354616	21	3 27.6	20.2
485064 2010 DV_{78}	16.3	X	76.35366	202.68830	335.78661	25.59583	0.1912116	0.28574647	2.2828750	21	7 2.6	19.6
485065 2010 EH_{21}	17.5	X	348.25273	132.08484	71.82113	3.22094	0.1554151	0.26414447	2.4057013	21	2 7.5	19.9
485066 2010 EX_{21}	17.7	X	14.86403	93.99907	127.71407	6.67060	0.2434219	0.27131459	2.3631282	21	4 28.5	19.1
485067 2010 EL_{30}	17.9	X	68.68559	232.60441	303.89143	4.34519	0.1633563	0.27893959	2.3198644	21	6 5.0	20.2
485068 2010 EY_{35}	18.0	X	79.85696	210.39966	5.86795	3.24758	0.2233642	0.28664231	2.2781161	21	8 30.5	21.0
485069 2010 EV_{39}	17.8	X	15.54418	37.88981	183.90538	4.05108	0.1675957	0.27255262	2.3559667	21	4 29.0	19.4
485070 2010 EM_{40}	18.0	X	123.99350	325.38820	187.19067	6.22194	0.1040924	0.28709774	2.2757062	21	7 8.1	21.1
485071 2010 EU_{69}	17.4	X	3.39988	75.71107	164.25656	10.35630	0.2132823	0.27037677	2.3685895	21	4 30.2	19.2
485072 2010 EN_{80}	18.0	X	15.24119	84.53306	156.73052	4.95326	0.1908107	0.27659838	2.3329367	21	6 1.5	19.6
485073 2010 EN_{84}	15.4	X	99.09267	238.14948	19.24559	9.42755	0.1718897	0.12458365	3.9703490	21	10 19.3	21.4
485074 2010 EB_{88}	17.6	X	21.21848	61.69278	144.62567	6.97956	0.2952707	0.26936767	2.3745012	21	4 20.2	18.5
485075 2010 EO_{91}	17.9	X	335.85027	84.32269	165.55613	4.40760	0.1986171	0.27111766	2.3642724	21	3 15.2	20.4
485076 2010 EE_{99}	18.0	X	88.33089	106.25449	58.38229	4.85779	0.0871150	0.27769981	2.3267640	21	6 5.2	20.5
485077 2010 ER_{109}	18.7	X	61.94652	318.42209	199.42324	0.35925	0.1604682	0.27436949	2.3455544	21	4 25.0	20.9
485078 2010 EF_{111}	18.6	X	72.01547	85.17487	139.76479	3.32835	0.1831945	0.28786540	2.2716586	21	8 26.4	21.2
485079 2010 ET_{120}	18.0	X	19.62224	273.09759	283.94256	1.20517	0.1534114	0.26754680	2.3852627	21	3 27.7	19.8
485080 2010 ES_{121}	18.4	X	130.08537	80.66762	36.06563	1.93418	0.1315902	0.28162353	2.3051017	21	5 29.9	21.5
485081 2010 ES_{127}	17.2	X	13.27872	184.67005	36.71604	11.20474	0.1638822	0.27255089	2.3559767	21	4 22.5	19.0
485082 2010 EG_{129}	18.2	X	25.98849	27.32014	197.65584	5.18999	0.1906041	0.27287032	2.3541376	21	5 31.7	19.9
485083 2010 EK_{130}	18.0	X	8.07306	66.96494	150.12885	1.89774	0.1289160	0.26803531	2.3823636	21	4 7.0	20.0
485084 2010 EH_{131}	17.8	X	340.55107	152.82664	105.20666	3.73804	0.1713376	0.26846970	2.3797931	21	4 12.2	20.1
485085 2010 EC_{132}	17.5	X	9.86987	237.07261	27.76592	5.82520	0.1941129	0.27702573	2.3305368	21	6 29.4	19.1
485086 2010 EM_{139}	17.0	X	336.19480	194.77137	66.77133	6.25991	0.2245917	0.26866873	2.3786176	21	4 1.4	19.3
485087 2010 EZ_{140}	18.0	X	338.95200	286.32277	342.06662	1.00966	0.1685979	0.27299886	2.3533986	21	4 22.2	20.2
485088 2010 FZ_{5}	17.0	X	353.90393	51.56055	177.26712	4.97116	0.1822420	0.26793127	2.3829803	21	3 20.6	19.0
485089 2010 FH_{15}	17.5	X	338.98869	72.49176	167.49470	4.65636	0.1860297	0.26372530	2.4082497	21	3 9.5	19.8
485090 2010 FZ_{22}	18.2	X	63.12253	351.27629	157.07938	5.73648	0.1385526	0.27111457	2.3642904	21	4 11.8	20.5
485091 2010 FZ_{53}	17.9	X	56.79173	210.45388	343.40788	5.34289	0.1291128	0.27617373	2.3353276	21	6 4.6	20.4
485092 2010 FK_{88}	17.4	X	20.23389	209.94778	14.13356	7.72185	0.2524574	0.27039526	2.3684815	21	5 14.1	18.7
485093 2010 FJ_{90}	17.3	X	349.09558	156.28267	60.93163	5.75973	0.1058048	0.26422800	2.4051943	21	3 9.4	19.9
485094 2010 FJ_{94}	18.0	X	349.39474	280.88606	326.10859	4.50940	0.2085766	0.26784150	2.3835127	21	4 2.2	20.1
485095 2010 FV_{94}	18.2	X	319.05923	136.90764	121.81198	2.31558	0.1505570	0.26361689	2.4089099	21	3 11.6	21.0
485096 2010 GP_{30}	18.3	X	96.36319	9.90753	142.81842	2.72213	0.1360263	0.27772737	2.3266100	21	6 8.2	21.1
485097 2010 GJ_{32}	16.1	X	207.41944	167.67650	52.00579	16.51495	0.1099793	0.22914384	2.6448270	21	12 27.4	20.1
485098 2010 GF_{42}	13.2	X	282.04898	225.18785	110.35887	31.84054	0.0663865	0.08252467	5.2249266	21	6 5.4	20.3
485099 2010 GE_{66}	17.4	X	29.90972	162.58797	47.94549	2.10410	0.1387506	0.27121057	2.3637324	21	5 11.3	19.4
485100 2010 GG_{97}	17.4	X	310.31111	232.16337	64.36648	13.49375	0.2114055	0.26441010	2.4040898	21	4 15.8	20.5
485101 2010 GE_{100}	18.0	X	39.21472	101.48715	92.08320	3.04215	0.1919673	0.27002301	2.3706578	21	5 10.7	19.7
485102 2010 GT_{110}	17.8	X	340.78430	168.50821	74.66716	6.69372	0.1879081	0.26438179	2.4042615	21	3 21.2	20.3
485103 2010 GX_{114}	17.8	X	340.44002	25.25098	219.63611	4.64105	0.1957496	0.26409506	2.4060013	21	3 15.5	20.4
485104 2010 GN_{119}	18.0	X	24.79649	34.78123	227.02122	5.49314	0.2028090	0.27775586	2.3264509	21	7 31.1	19.9
485105 2010 GY_{124}	18.4	X	42.78644	31.17744	169.65625	1.05296	0.1231847	0.27273057	2.3549417	21	5 20.8	20.5
485106 2010 GL_{161}	16.6	X	84.92337	231.79238	89.25628	21.98731	0.2043111	0.21396887	2.7684434	21	—	—
485107 2010 GK_{172}	17.8	X	22.62626	80.83686	149.80653	6.71618	0.1268244	0.27584826	2.3371642	21	5 29.5	20.0
485108 2010 HL_{17}	16.7	X	307.26233	277.82605	291.62749	16.95971	0.1062071	0.23786698	2.5797638	21	1 2.4	20.3
485109 2010 HY_{107}	17.9	X	324.34619	93.74166	133.82623	2.19620	0.1448213	0.25586440	2.4573262	21	2 6.2	20.7
485110 2010 HZ_{108}	20.9	X	299.67932	106.64092	174.00360	22.88250	0.2083518	0.70664910	1.2483418	21	—	—
485111 2010 HY_{111}	17.1	X	306.12075	165.62996	116.04843	16.94297	0.1179835	0.25269643	2.4778213	21	4 8.5	20.6
485112 2010 JE_{34}	17.8	X	9.05822	341.75110	250.19717	4.39435	0.1840434	0.26982511	2.3718168	21	4 27.8	19.4
485113 2010 JY_{45}	17.8	X	1.38594	76.25721	113.90765	2.26200	0.1360445	0.25746386	2.4471384	21	2 14.2	20.4
485114 2010 JJ_{82}	17.8	X	350.13897	52.53289	198.49399	6.52115	0.0945698	0.26689641	2.3891361	21	4 28.5	20.1
485115 2010 JS_{119}	18.5	X	51.38024	79.15645	120.84131	6.52695	0.2348815	0.27216323	2.3582133	21	6 24.4	20.7
485116 2010 JE_{124}	17.7	X	18.62344	341.98628	261.71702	5.75223	0.3689576	0.27328421	2.3517601	21	7 9.5	18.0
485117 2010 JN_{154}	17.5	X	107.94241	11.18813	81.48039	7.92011	0.0743910	0.26024327	2.4296836	21	3 27.4	20.7
485118 2010 KY_{7}	15.8	X	316.65688	83.50822	285.73933	24.56587	0.2392379	0.17459279	3.1704325	21	7 26.8	19.5
485119 2010 KO_{57}	16.9	X	102.49162	58.11494	288.03059	7.80383	0.2254925	0.20878324	2.8140964	21	—	—
485120 2010 KY_{116}	17.3	X	238.17915	79.08394	233.23003	12.90414	0.2796490	0.23693525	2.5865225	21	2 10.9	22.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
485121 2010 KJ_{123}	16.7	X	317.65767	287.19556	303.34205	27.14782	0.1308233	0.23788532	2.5796312	21	2 2.5	20.2
485122 2010 LB_{13}	16.4	X	134.25740	105.24543	254.12978	12.51982	0.0560221	0.21947340	2.7219582	21	—	—
485123 2010 LT_{102}	16.4	X	354.79319	285.94782	274.59759	15.64053	0.2012432	0.23837725	2.5760810	21	2 5.6	19.3
485124 2010 LE_{105}	18.0	X	317.25900	244.04095	4.14274	1.08308	0.1460655	0.25668392	2.4520930	21	2 23.9	21.1
485125 2010 LM_{109}	16.6	X	263.64029	353.00700	225.27444	28.46668	0.1050739	0.23417143	2.6068344	21	—	—
485126 2010 MA_{46}	15.2	X	19.58504	4.61675	313.92148	24.69459	0.3129108	0.18134326	3.0912569	21	10 5.3	19.1
485127 2010 MA_{54}	16.7	X	294.38765	237.87406	172.76407	15.78450	0.2484788	0.17373418	3.1808697	21	8 15.8	20.9
485128 2010 MM_{61}	16.3	X	0.29943	33.57489	347.07390	17.12074	0.2215266	0.18508492	3.0494535	21	11 18.1	19.9
485129 2010 MS_{82}	16.7	X	208.34060	85.28829	226.65872	16.22258	0.2491479	0.22711166	2.6605807	21	1 22.4	21.7
485130 2010 MK_{92}	15.8	X	304.86541	187.70517	193.99940	13.74868	0.1580692	0.17119791	3.2122086	21	8 6.3	20.1
485131 2010 MH_{97}	17.0	X	347.14963	225.89500	195.17989	14.65260	0.2462914	0.18827186	3.0149430	21	12 25.2	20.2
485132 2010 NH_{3}	17.5	X	97.76141	0.96132	277.46913	18.17285	0.0701072	0.37799718	1.8944232	21	12 11.9	19.8
485133 2010 NQ_{6}	16.6	X	93.28133	46.76809	302.74594	19.73284	0.1894723	0.20954115	2.8073065	21	—	—
485134 2010 NA_{12}	16.5	X	210.42984	315.97081	12.09529	26.88322	0.1298145	0.22866838	2.6484919	21	2 28.8	21.1
485135 2010 NU_{69}	16.3	X	89.17748	296.43359	56.78693	18.25971	0.1480099	0.20134594	2.8829745	21	—	—
485136 2010 NY_{74}	17.7	X	351.37273	99.37114	302.54422	6.77700	0.3139978	0.18277552	3.0750867	21	12 14.9	20.3
485137 2010 NY_{79}	17.6	X	328.54494	102.91271	297.09760	6.21883	0.3187404	0.17633757	3.1494846	21	9 27.7	20.3
485138 2010 OD	16.0	X	322.11032	18.40531	316.52180	12.16992	0.2222872	0.17308082	3.1888695	21	6 28.9	19.8
485139 2010 OO_{3}	17.0	X	265.72845	250.61640	13.34973	12.55598	0.2559558	0.22933993	2.6433191	21	1 16.4	21.7
485140 2010 OC_{22}	16.0	X	11.59991	148.55660	202.09919	27.47439	0.1607727	0.18067909	3.0988279	21	10 29.3	19.7
485141 2010 OL_{22}	16.9	X	7.35728	303.00968	78.72389	16.28009	0.3558244	0.18382389	3.0633838	21	12 29.8	20.1
485142 2010 OE_{27}	15.9	X	349.22163	92.18430	263.51660	18.87472	0.2445340	0.17609013	3.1524343	21	9 13.1	19.4
485143 2010 OP_{63}	16.7	X	332.37542	13.27305	20.49846	10.84044	0.2236629	0.17665411	3.1457211	21	10 10.9	19.8
485144 2010 OC_{99}	17.3	X	357.80965	78.79103	318.50818	6.70806	0.2609316	0.18317162	3.0706520	21	12 16.4	20.4
485145 2010 OK_{101}	17.1	X	323.73575	343.18394	308.80829	10.67611	0.2578555	0.25707980	2.4495750	21	4 10.2	20.1
485146 2010 OW_{118}	16.9	X	356.69530	257.27287	130.29122	2.13874	0.2933285	0.18107436	3.0943165	21	12 4.5	19.6
485147 2010 PV_{23}	16.3	X	175.63743	14.91437	314.56932	14.55847	0.2631884	0.22511612	2.6762807	21	1 25.5	21.0
485148 2010 PF_{49}	17.1	X	9.83845	342.75510	37.97251	1.04615	0.1895114	0.18311765	3.0712552	21	12 7.4	20.6
485149 2010 PK_{60}	16.5	X	138.77452	15.34777	311.67169	14.00561	0.1187817	0.21608949	2.7503013	21	—	—
485150 2010 PD_{62}	17.3	X	118.43573	192.51843	150.63799	3.35312	0.1854511	0.21110456	2.7934290	21	—	—
485151 2010 PR_{63}	17.8	X	155.47427	90.28487	153.36551	24.58785	0.0932798	0.38412906	1.8742087	21	—	—
485152 2010 PQ_{65}	17.4	X	86.20777	37.46540	272.92959	17.11378	0.0624301	0.38063195	1.8856709	21	—	—
485153 2010 PV_{80}	18.0	X	42.51845	340.56563	355.90276	19.21609	0.0708743	0.36794200	1.9287820	21	12 20.7	20.6
485154 2010 RC_{10}	17.4	X	186.94337	357.98428	304.23884	3.13943	0.0839694	0.21623254	2.7490883	21	—	—
485155 2010 RL_{22}	16.7	X	219.51474	13.28839	311.13903	15.32444	0.1644425	0.23479397	2.6022245	21	2 15.8	20.9
485156 2010 RM_{26}	17.3	X	123.63116	32.72715	311.23836	3.65118	0.0784885	0.21235031	2.7824933	21	—	—
485157 2010 RR_{32}	18.6	X	153.17378	283.97953	335.10918	19.20516	0.1058518	0.38515582	1.8708763	21	—	—
485158 2010 RB_{37}	18.2	X	80.50126	156.23921	165.20263	22.20830	0.1098478	0.38221517	1.8804600	21	—	—
485159 2010 RW_{54}	17.7	X	223.44762	179.27167	0.18276	20.37857	0.0371033	0.37438322	1.9065951	21	—	—
485160 2010 RW_{57}	16.9	X	333.65157	187.89582	189.04144	11.57698	0.1234624	0.17997044	3.1069572	21	9 24.6	20.5
485161 2010 RY_{69}	16.5	X	27.23754	335.25315	22.02338	9.94999	0.2663696	0.18786662	3.0192771	21	12 16.8	20.4
485162 2010 RT_{77}	16.4	X	353.19104	185.46135	174.14556	14.44225	0.2202328	0.17960967	3.1111163	21	10 12.2	19.5
485163 2010 RU_{96}	17.8	X	93.19952	119.96541	189.24327	22.82670	0.1017791	0.37818035	1.8938115	21	—	—
485164 2010 RB_{99}	16.8	X	29.23257	77.80512	351.27904	14.78468	0.1567672	0.20232831	2.8736351	21	—	—
485165 2010 RQ_{100}	17.3	X	196.02580	337.93308	337.81447	6.00035	0.0392131	0.21950063	2.7217331	21	1 17.5	21.1
485166 2010 RA_{105}	17.3	X	25.47482	142.86351	289.84190	1.01941	0.0460344	0.20262768	2.8708040	21	—	—
485167 2010 RF_{112}	17.0	X	155.75776	295.37320	24.32184	5.14825	0.1588936	0.21325572	2.7746120	21	—	—
485168 2010 RX_{127}	16.8	X	359.91958	50.96459	336.72913	12.44246	0.2259737	0.18621147	3.0371420	21	12 1.8	20.3
485169 2010 RM_{128}	16.4	X	315.95758	200.07147	196.97364	17.49200	0.2042926	0.17685099	3.1433860	21	9 9.5	20.2
485170 2010 RW_{144}	16.7	X	322.86717	240.52029	7.21851	13.22088	0.1180304	0.23559297	2.5963376	21	3 13.7	19.9
485171 2010 RX_{165}	17.4	X	115.00704	202.20655	180.54914	4.31363	0.1084577	0.21596960	2.7513191	21	1 12.4	21.1
485172 2010 RK_{167}	16.2	X	355.28857	243.41742	182.50072	13.23676	0.3500388	0.18766497	3.0214395	21	—	—
485173 2010 RS_{177}	17.0	X	153.46103	328.31770	44.87197	6.87634	0.0408891	0.22131465	2.7068401	21	2 9.5	20.8
485174 2010 RR_{180}	17.3	X	126.58884	173.60696	195.27074	9.92719	0.1016912	0.21454822	2.7634574	21	1 7.9	21.3
485175 2010 RM_{184}	16.8	X	246.32254	56.27323	233.81923	12.68387	0.1912506	0.23251075	2.6192323	21	1 27.0	21.3
485176 2010 SC_{9}	17.4	X	158.33111	148.82950	184.09896	3.29135	0.0909335	0.21655077	2.7463943	21	—	—
485177 2010 SK_{23}	16.2	X	346.61617	46.61301	346.44599	15.98874	0.2342448	0.18366214	3.0651821	21	11 5.4	19.5
485178 2010 SJ_{29}	16.7	X	184.10964	282.48510	26.18361	9.61770	0.1351900	0.21774833	2.7363155	21	1 1.7	21.1
485179 2010 SS_{35}	17.9	X	285.71282	330.48327	198.56622	23.89952	0.0332865	0.38633363	1.8670719	21	—	—
485180 2010 ST_{38}	18.3	X	237.57094	286.79766	197.09212	20.94353	0.0762084	0.36098220	1.9534945	21	10 29.4	20.1
485181 2010 SR_{39}	17.5	X	316.50318	51.54836	337.11253	18.05544	0.1004833	0.35856104	1.9622785	21	10 1.4	19.2
485182 2010 TB	16.2	X	230.99677	327.84818	353.34620	32.96212	0.2356174	0.23251041	2.6192349	21	3 2.8	20.9
485183 2010 TW_{9}	17.2	X	175.01395	37.18064	267.16025	0.71503	0.0114219	0.21227763	2.7831283	21	—	—
485184 2010 TM_{19}	15.7	X	210.10116	181.14287	186.88371	33.03279	0.1679381	0.23280410	2.6170316	21	4 4.8	20.0
485185 2010 TD_{28}	17.3	X	199.63439	340.80941	296.71891	3.02086	0.0693741	0.21291533	2.7775684	21	—	—
485186 2010 TR_{29}	17.3	X	58.13050	182.15040	201.96808	6.92010	0.0682790	0.20093689	2.8868857	21	—	—
485187 2010 TH_{39}	18.1	X	107.16635	253.54523	15.14846	20.27886	0.0641345	0.36926218	1.9241821	21	11 30.7	20.8
485188 2010 TX_{45}	17.0	X	48.67401	40.70745	10.96451	1.96108	0.0585048	0.20334497	2.8640489	21	—	—
485189 2010 TX_{60}	17.7	X	342.16695	186.18491	235.71441	1.56855	0.1799851	0.18865038	3.0109088	21	12 12.1	20.7
485190 2010 TE_{65}	16.2	X	46.24187	357.57547	2.78739	9.22894	0.1161917	0.18993867	2.9972786	21	12 24.9	20.5
485191 2010 TP_{79}	17.1	X	341.25180	255.11595	189.60064	10.92170	0.1163732	0.19255633	2.9700529	21	—	—
485192 2010 TX_{87}	17.4	X	90.40411	5.21278	19.74073	5.79105	0.0185136	0.20941335	2.8084485	21	—	—
485193 2010 TU_{89}	17.4	X	21.28209	59.59988	30.83368	8.59872	0.1492389	0.20473268	2.8510922	21	—	—
485194 2010 TD_{126}	17.1	X	186.83401	259.28930	40.30981	4.99370	0.0536945	0.21252363	2.7809802	21	—	—
485195 2010 TR_{153}	16.9	X	246.57872	345.90361	314.82596	7.53716	0.1031125	0.23123491	2.6288579	21	2 17.3	20.8
485196 2010 TF_{157}	17.0	X	127.07718	168.01441	171.16397	3.03883	0.1837481	0.20902446	2.8119309	21	—	—
485197 2010 TO_{165}	16.7	X	10.22337	5.59289	33.32504	9.11524	0.0785835	0.18883635	3.0089316	21	12 18.5	20.7
485198 2010 TS_{168}	15.6	X	347.52995	156.79462	242.55533	16.13374	0.1839760	0.18048869	3.1010069	21	11 19.9	19.0
485199 2010 TV_{184}	16.6	X	323.31310	57.45049	20.27361	6.09425	0.2441499	0.18345064	3.0675376	21	11 19.9	19.6
485200 2010 UN_{19}	16.0	X	15.09036	165.96294	216.73530	15.23103	0.0426008	0.18553511	3.0445187	21	12 1.6	20.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
485201 2010 US_{25}	16.2	X	295.77415	72.32857	39.13476	12.20686	0.1398649	0.18094506	3.0957905	21	11 21.9	20.2
485202 2010 UE_{35}	16.9	X	352.20354	44.34207	8.17812	11.26433	0.1060533	0.18579490	3.0416800	21	12 9.9	20.9
485203 2010 UC_{36}	16.4	X	251.67746	271.52231	286.17858	7.53199	0.0406622	0.19120637	2.9840160	21	—	—
485204 2010 UD_{49}	16.1	X	324.53234	323.93403	110.67410	5.98944	0.1161824	0.18319652	3.0703737	21	11 26.5	19.8
485205 2010 UO_{55}	16.9	X	328.02702	206.56199	234.66408	7.88957	0.2060066	0.18249847	3.0781981	21	12 8.1	20.0
485206 2010 UC_{59}	16.0	X	317.31949	65.93968	56.46288	12.87912	0.0466901	0.18809623	3.0168195	21	—	—
485207 2010 UL_{73}	16.2	X	358.94518	144.20942	258.30598	15.34672	0.1032698	0.18091207	3.0961668	21	12 7.9	20.1
485208 2010 UR_{76}	16.5	X	27.41844	127.31291	259.81758	9.38514	0.2578113	0.18844512	3.0130947	21	—	—
485209 2010 UR_{77}	16.9	X	192.60264	28.51623	291.01229	7.07732	0.0917301	0.21586227	2.7522311	21	1 19.9	21.0
485210 2010 UT_{77}	17.0	X	150.81453	343.85852	324.81619	7.00382	0.0701111	0.20171335	2.8794727	21	—	—
485211 2010 UK_{79}	16.7	X	60.07339	1.90697	8.13261	8.64855	0.1231043	0.19216608	2.9740725	21	—	—
485212 2010 UB_{80}	17.3	X	337.31219	82.94426	344.76591	6.37888	0.2411916	0.18256580	3.0774412	21	12 9.5	20.3
485213 2010 UG_{83}	17.0	X	208.25643	85.52197	250.93163	5.12423	0.0255128	0.22057873	2.7128574	21	2 22.2	20.9
485214 2010 UT_{85}	17.3	X	323.66273	311.20063	151.54875	3.25006	0.2399323	0.18768572	3.0212168	21	12 29.3	20.1
485215 2010 UH_{88}	16.4	X	327.87251	192.45285	252.17275	13.92809	0.3065375	0.18309632	3.0714937	21	12 10.6	18.8
485216 2010 UA_{95}	16.7	X	323.98915	39.31017	58.40344	10.21965	0.2761510	0.18476241	3.0530011	21	12 20.2	19.4
485217 2010 UT_{97}	16.5	X	318.08492	51.44163	65.58950	17.45138	0.2334105	0.18564772	3.0432875	21	—	—
485218 2010 UZ_{97}	16.8	X	133.88934	34.94295	314.85409	8.61771	0.1673740	0.20963328	2.8064839	21	1 5.4	21.0
485219 2010 UJ_{99}	15.7	X	317.82095	176.53121	235.60774	16.65591	0.1833986	0.17791061	3.1308924	21	10 4.7	19.5
485220 2010 VS	13.2	X	358.75627	337.54099	305.57407	39.02520	0.0639891	0.08159592	5.2644994	21	7 11.6	20.0
485221 2010 VN_{11}	15.8	X	346.97083	284.90895	117.67165	26.78682	0.2383809	0.17093440	3.2155090	21	12 2.4	19.6
485222 2010 VO_{15}	17.0	X	349.91222	143.80675	254.21282	7.46967	0.2877496	0.18241287	3.0791610	21	12 2.2	19.4
485223 2010 VC_{16}	16.5	X	298.27864	128.39583	353.40210	8.91617	0.0219783	0.19013489	2.9952162	21	12 23.6	20.7
485224 2010 VN_{18}	17.0	X	192.91641	210.69017	117.72489	6.89861	0.0201849	0.21554769	2.7549082	21	1 28.4	20.7
485225 2010 VQ_{19}	16.6	X	342.78499	198.96995	222.73122	7.42885	0.1835850	0.18365580	3.0652527	21	12 11.7	20.0
485226 2010 VU_{23}	16.6	X	17.30505	157.70537	237.12051	14.50396	0.1929420	0.18567381	3.0430023	21	—	—
485227 2010 VZ_{24}	16.9	X	28.10395	318.29085	59.55054	1.81118	0.2232179	0.18527781	3.0473367	21	—	—
485228 2010 VJ_{27}	16.2	X	34.21339	160.14336	238.22286	9.12672	0.1041160	0.18818440	3.0158771	21	—	—
485229 2010 VL_{27}	17.0	X	0.87031	206.93746	170.21689	1.55486	0.2948284	0.18130470	3.0916952	21	11 29.9	19.9
485230 2010 VE_{34}	16.2	X	37.36297	297.49854	58.16709	22.39595	0.2113861	0.18470180	3.0536690	21	12 17.5	20.5
485231 2010 VV_{44}	17.1	X	301.42815	235.73502	22.89789	14.69088	0.2514386	0.23299181	2.6156258	21	2 14.0	21.2
485232 2010 VA_{48}	16.9	X	34.58160	333.87520	61.86134	11.00882	0.0970260	0.18789869	3.0189336	21	—	—
485233 2010 VV_{49}	16.8	X	207.91001	52.61562	287.78204	5.31260	0.0506251	0.22214319	2.7001054	21	2 26.7	20.7
485234 2010 VN_{55}	17.0	X	54.61830	224.73174	135.38912	2.17992	0.2036106	0.19028687	2.9936211	21	—	—
485235 2010 VL_{61}	16.1	X	32.09638	2.69576	18.23035	8.70346	0.0781616	0.18707084	3.0278335	21	12 25.9	20.3
485236 2010 VR_{70}	17.4	X	18.12062	305.11958	65.29764	23.31012	0.0978582	0.36495199	1.9393025	21	—	—
485237 2010 VU_{70}	16.7	X	328.00211	53.01089	45.99807	18.28028	0.3097199	0.18378175	3.0638520	21	—	—
485238 2010 VR_{71}	16.2	X	5.29167	192.05680	224.08009	9.51431	0.2411462	0.18653900	3.0335858	21	—	—
485239 2010 VK_{74}	18.0	X	293.37076	13.70476	48.36731	21.96223	0.0970686	0.35676393	1.9688627	21	10 28.1	19.5
485240 2010 VO_{74}	16.4	X	337.09810	135.55410	241.25470	23.68791	0.2056125	0.17540282	3.1606641	21	9 17.7	20.3
485241 2010 VD_{84}	17.1	X	3.85433	350.31037	55.90657	5.61937	0.1260270	0.18336068	3.0685409	21	12 22.7	20.8
485242 2010 VD_{89}	16.2	X	5.34484	0.19947	48.52000	11.48399	0.1329886	0.18431937	3.0578915	21	12 29.2	20.1
485243 2010 VO_{89}	16.8	X	339.80313	190.86478	250.98950	7.12840	0.0682971	0.18506068	3.0497198	21	12 27.5	20.7
485244 2010 VF_{91}	16.4	X	183.52906	69.44292	251.07083	12.02110	0.2097903	0.21161237	2.7889583	21	1 16.5	21.2
485245 2010 VZ_{106}	16.5	X	38.48137	31.67336	34.97840	15.61841	0.0989895	0.19768585	2.9184504	21	—	—
485246 2010 VP_{114}	17.1	X	327.70833	100.77326	318.01692	3.93112	0.1350803	0.17670965	3.1450619	21	11 6.4	20.8
485247 2010 VN_{116}	16.1	X	20.33583	331.68569	36.99261	14.14432	0.1227136	0.18111107	3.0938985	21	11 26.9	20.1
485248 2010 VG_{123}	16.3	X	277.63344	280.80693	252.73926	9.48617	0.1348061	0.19202619	2.9755168	21	—	—
485249 2010 VK_{123}	16.7	X	342.46840	32.04598	14.42107	5.34291	0.1506235	0.17984893	3.1083565	21	11 17.2	20.3
485250 2010 VX_{136}	15.5	X	299.86303	201.42977	301.44566	29.02845	0.2472046	0.17437393	3.1730848	21	12 31.2	19.2
485251 2010 VB_{157}	17.0	X	21.08369	133.93752	254.81172	8.33689	0.1530690	0.18577859	3.0418580	21	12 30.1	20.9
485252 2010 VC_{160}	16.6	X	1.57358	310.84288	95.61357	8.86751	0.2340254	0.18260026	3.0770541	21	—	—
485253 2010 VO_{160}	16.9	X	353.40244	21.15957	10.64010	8.10799	0.2076591	0.18152883	3.0891498	21	11 21.2	20.3
485254 2010 VV_{162}	16.8	X	77.48768	97.73981	250.36485	9.41542	0.0789705	0.18962399	3.0005937	21	—	—
485255 2010 VX_{165}	16.5	X	331.06714	35.25530	63.68762	10.74105	0.1261072	0.18449399	3.0559617	21	—	—
485256 2010 VC_{177}	16.5	X	340.88775	41.73048	49.07908	10.12213	0.1368527	0.18833042	3.0143180	21	—	—
485257 2010 VY_{177}	16.6	X	265.14385	36.08788	241.58409	5.06400	0.0414165	0.21921629	2.7240861	21	2 15.4	20.4
485258 2010 VO_{179}	16.8	X	114.09794	309.90914	56.94087	10.12682	0.1448697	0.20469944	2.8514009	21	—	—
485259 2010 VK_{195}	15.8	X	242.47072	109.69515	34.69322	27.92941	0.2084880	0.17219699	3.1997718	21	10 20.1	20.7
485260 2010 VR_{196}	16.4	X	19.18487	132.50349	266.92938	14.94280	0.0957987	0.18564885	3.0432751	21	—	—
485261 2010 VA_{197}	16.6	X	2.64725	43.59279	18.83421	11.78309	0.0971140	0.18600607	3.0393775	21	—	—
485262 2010 VK_{204}	17.0	X	47.36352	65.42852	312.02279	4.20340	0.2182942	0.19248796	2.9707562	21	—	—
485263 2010 VY_{214}	17.2	X	47.88195	152.31467	232.43093	5.43128	0.1714357	0.19284289	2.9671098	21	—	—
485264 2010 VJ_{216}	16.9	X	358.32808	12.55848	51.37985	12.67418	0.1086935	0.18695118	3.0291253	21	—	—
485265 2010 WO_{9}	16.6	X	41.64898	10.92022	6.23476	8.35401	0.1161958	0.18817135	3.0160165	21	—	—
485266 2010 WN_{12}	17.1	X	357.04804	106.43942	309.78224	8.23239	0.2403072	0.18528549	3.0472526	21	—	—
485267 2010 WK_{13}	17.1	X	20.15119	177.50710	194.95097	2.10015	0.2162822	0.18293627	3.0732850	21	12 17.4	20.8
485268 2010 WM_{34}	16.2	X	69.02637	286.79402	71.40932	11.93422	0.1710938	0.19060560	2.9902829	21	—	—
485269 2010 WC_{35}	17.3	X	5.16932	1.21700	93.21814	4.01101	0.1159724	0.19330116	2.9624185	21	—	—
485270 2010 WN_{52}	16.4	X	270.18016	90.73448	60.92870	10.93338	0.0440741	0.18311684	3.0712643	21	12 19.6	20.7
485271 2010 WH_{55}	16.3	X	334.62686	185.23176	267.71357	17.38781	0.1759503	0.18032159	3.1029223	21	—	—
485272 2010 WD_{57}	16.6	X	111.64918	127.71136	220.85711	9.48558	0.1262645	0.19788348	2.9165070	21	—	—
485273 2010 WA_{58}	17.2	X	352.93716	203.18266	194.69704	1.90347	0.1457949	0.17820160	3.1274832	21	11 25.4	20.7
485274 2010 WN_{61}	17.2	X	305.42087	79.98239	47.74572	1.10677	0.1979732	0.18265849	3.0764000	21	12 25.4	20.4
485275 2010 XD_{15}	17.2	X	320.14796	194.97456	245.83738	2.22949	0.1792273	0.17964061	3.1107590	21	11 21.8	20.7
485276 2010 XD_{19}	16.5	X	36.75898	149.58653	220.87554	10.70932	0.0768418	0.18076324	3.0978661	21	12 17.3	20.8
485277 2010 XR_{34}	16.3	X	302.13623	31.32511	84.14737	12.57483	0.2115763	0.17946705	3.1127643	21	12 1.8	19.9
485278 2010 XF_{45}	16.0	X	127.25630	294.48925	91.09661	12.94696	0.1408201	0.21133083	2.7914347	21	2 8.7	20.1
485279 2010 XM_{50}	16.0	X	313.79742	190.85302	279.61358	17.75834	0.2017073	0.17763708	3.1341057	21	12 17.5	19.4
485280 2010 XW_{54}	16.0	X	349.73170	121.61685	306.02082	18.17593	0.1509430	0.17557659	3.1585783	21	12 29.6	19.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
485281 2010 XY_{71}	16.8	X	332.59469	331.98741	105.70581	3.90088	0.1717843	0.18263168	3.0767011	21	12 12.8	20.0
485282 2010 XO_{76}	16.4	X	331.28240	232.21261	255.47795	9.21961	0.0676774	0.19103895	2.9857592	21	—	—
485283 2010 XK_{85}	16.3	X	308.49551	260.76167	238.28220	9.83531	0.0585173	0.18765222	3.0215764	21	—	—
485284 2010 YQ_{1}	15.4	X	290.01682	203.31434	294.68043	15.63456	0.1558023	0.17646485	3.1479699	21	12 16.0	19.4
485285 2010 YS_{3}	16.1	X	344.76945	301.32520	120.92863	27.89966	0.3172560	0.17592175	3.1544455	21	12 27.4	19.1
485286 2010 YB_{4}	16.5	X	307.65741	143.10112	307.18019	15.21207	0.2226816	0.17129901	3.2109447	21	10 28.1	20.5
485287 2010 YD_{4}	15.9	X	331.21280	147.84173	297.90968	16.04496	0.1874632	0.17487705	3.1669959	21	12 19.3	19.5
485288 2011 AK	16.0	X	19.26342	310.31018	116.46372	12.90965	0.0539360	0.18215114	3.0821099	21	—	—
485289 2011 AE_{11}	16.8	X	356.70335	322.45592	112.46177	18.56673	0.2987997	0.18278746	3.0749527	21	—	—
485290 2011 AN_{11}	16.1	X	288.27069	29.29397	115.70372	19.28319	0.1778948	0.17498022	3.1657510	21	12 20.0	20.2
485291 2011 AT_{13}	16.3	X	306.86622	150.23088	304.93713	18.28685	0.1039789	0.17078988	3.2173227	21	11 17.9	20.8
485292 2011 AN_{15}	16.3	X	349.28334	113.08862	280.99995	24.49889	0.3451848	0.17365795	3.1818005	21	11 27.3	19.2
485293 2011 AE_{22}	16.5	X	302.57060	331.45126	124.68392	12.85305	0.1976002	0.17117644	3.2124772	21	11 11.1	20.5
485294 2011 AM_{29}	16.6	X	47.80066	13.07936	338.79223	10.37237	0.2566565	0.17704139	3.1411320	21	—	—
485295 2011 AZ_{31}	15.9	X	267.02111	88.24361	92.89313	12.10845	0.0697624	0.17921555	3.1156758	21	—	—
485296 2011 AU_{42}	16.6	X	326.49842	148.91055	311.74153	16.73496	0.1764114	0.17703614	3.1411941	21	12 31.8	20.3
485297 2011 AB_{43}	16.6	X	352.41858	133.55932	309.74984	9.02702	0.1056742	0.17804258	3.1293451	21	—	—
485298 2011 AS_{43}	16.0	X	310.32970	354.96741	121.01067	21.96353	0.1576260	0.17384940	3.1794640	21	12 22.2	19.9
485299 2011 AM_{47}	16.3	X	25.64245	289.16611	123.68643	10.59215	0.1224405	0.18203445	3.0834270	21	—	—
485300 2011 AJ_{49}	16.6	X	327.56127	170.21103	299.56669	8.27037	0.1246078	0.17900550	3.1181126	21	—	—
485301 2011 AH_{50}	16.7	X	232.14302	117.73145	85.22757	6.53938	0.1333840	0.17384069	3.1795702	21	12 21.9	21.5
485302 2011 AN_{51}	16.0	X	34.10163	95.12107	305.58985	14.99689	0.1375740	0.17743515	3.1364830	21	—	—
485303 2011 AG_{54}	17.0	X	21.63352	84.52374	307.46458	6.96716	0.0364702	0.17401108	3.1774943	21	12 17.9	21.4
485304 2011 AD_{57}	17.7	X	3.65173	295.17313	121.14200	25.61310	0.0644737	0.36335415	1.9449837	21	—	—
485305 2011 AA_{60}	16.1	X	162.71001	6.76893	292.96983	9.86997	0.0310277	0.18388587	3.0626954	21	—	—
485306 2011 AF_{62}	15.7	X	245.77119	236.77007	309.35054	18.07099	0.1635256	0.17268336	3.1937608	21	12 13.9	20.5
485307 2011 AB_{67}	16.9	X	4.24856	296.71456	115.51062	13.47693	0.0998119	0.17602412	3.1532223	21	12 26.7	21.0
485308 2011 AX_{67}	16.5	X	77.63432	238.82162	119.08733	14.71712	0.0230134	0.17861912	3.1226077	21	—	—
485309 2011 AZ_{69}	16.2	X	343.58418	109.34707	334.65781	9.47432	0.0245649	0.17655436	3.1469059	21	—	—
485310 2011 AP_{71}	16.8	X	32.14722	340.78656	82.50222	11.51207	0.0650391	0.18436654	3.0573698	21	—	—
485311 2011 AM_{77}	15.9	X	348.02484	313.54521	103.65018	23.20730	0.2226978	0.17642397	3.1484562	21	12 18.5	19.3
485312 2011 BP_{2}	17.1	X	13.49169	62.28987	321.08205	8.94429	0.2396842	0.17685438	3.1433459	21	12 22.9	20.8
485313 2011 BZ_{3}	16.6	X	316.92815	187.68131	302.75818	6.88976	0.0643887	0.18019051	3.1044269	21	—	—
485314 2011 BY_{7}	17.1	X	339.75178	318.40604	116.93979	7.27161	0.1365604	0.17489455	3.1667847	21	12 19.6	20.9
485315 2011 BT_{17}	16.4	X	40.98954	279.02893	129.46122	10.98612	0.0739425	0.18117664	3.0931519	21	—	—
485316 2011 BC_{30}	16.4	X	323.18653	141.64793	324.64725	15.09905	0.0879564	0.17612642	3.1520012	21	—	—
485317 2011 BP_{31}	16.6	X	49.60462	47.34498	322.64434	10.58031	0.1093350	0.17383328	3.1796606	21	—	—
485318 2011 BZ_{32}	16.4	X	295.30157	31.88995	136.86371	10.87619	0.0655459	0.17977914	3.1091608	21	—	—
485319 2011 BL_{34}	17.2	X	304.55619	41.99456	117.09821	20.06929	0.1977299	0.18127048	3.0920843	21	—	—
485320 2011 BF_{44}	16.0	X	323.25590	319.05397	147.58525	18.61772	0.1744355	0.17428468	3.1741680	21	12 30.9	19.9
485321 2011 BN_{53}	17.5	X	315.82425	125.74857	16.68189	0.58784	0.1392056	0.17937943	3.1137778	21	—	—
485322 2011 BA_{56}	16.2	X	39.75654	157.41504	271.75003	8.95961	0.0671394	0.18690066	3.0296712	21	—	—
485323 2011 BA_{59}	16.8	X	337.07550	141.31658	319.70087	9.57473	0.1998180	0.17763689	3.1341079	21	—	—
485324 2011 BD_{68}	16.6	X	197.83798	206.66544	108.71465	12.32922	0.0846136	0.19785149	2.9168214	21	1 23.8	21.1
485325 2011 BL_{68}	16.2	X	309.05173	171.42121	314.39990	19.21032	0.0457947	0.17555684	3.1588151	21	—	—
485326 2011 BT_{68}	16.1	X	271.96871	219.76793	315.98897	14.55598	0.1588378	0.17629996	3.1499325	21	—	—
485327 2011 BZ_{75}	16.3	X	251.77163	51.19217	149.72962	18.84824	0.0986089	0.17277269	3.1926599	21	—	—
485328 2011 BE_{83}	16.0	X	240.09676	230.43604	334.50559	9.66366	0.1376504	0.17242985	3.1968904	21	—	—
485329 2011 BJ_{83}	16.0	X	324.52433	338.50383	117.86940	28.04872	0.1362490	0.17497913	3.1657641	21	12 23.8	20.0
485330 2011 BQ_{93}	16.2	X	254.48664	245.81521	287.55356	6.94855	0.0493112	0.16931509	3.2359783	21	12 23.4	20.6
485331 2011 BC_{95}	16.3	X	253.49381	64.77340	113.97289	18.19719	0.1046139	0.17296044	3.1903490	21	12 22.8	20.8
485332 2011 BP_{102}	16.6	X	305.81311	55.95719	97.80774	12.23135	0.1100860	0.18076505	3.0978454	21	—	—
485333 2011 BC_{113}	16.6	X	274.68500	345.30812	185.79750	9.63006	0.0524374	0.17329564	3.1862336	21	—	—
485334 2011 BC_{116}	15.6	X	178.13145	150.43724	119.64981	26.76356	0.1850024	0.17619757	3.1511526	21	—	—
485335 2011 BS_{118}	16.6	X	324.56400	0.87557	107.62582	11.99131	0.1797961	0.17636891	3.1491114	21	—	—
485336 2011 BG_{121}	16.0	X	297.46095	7.93138	146.34795	18.23649	0.1645382	0.17614048	3.1518335	21	—	—
485337 2011 BT_{125}	16.4	X	90.05820	30.39708	313.16432	8.88829	0.1027558	0.17725000	3.1386669	21	—	—
485338 2011 BS_{134}	16.3	X	347.40938	94.75697	305.62206	21.08248	0.1185089	0.16875338	3.2431552	21	11 8.9	20.8
485339 2011 BO_{142}	16.5	X	268.27564	151.84183	73.62552	6.83885	0.2635455	0.18380411	3.0636036	21	—	—
485340 2011 BV_{149}	16.8	X	325.79254	104.82958	337.00116	10.35432	0.0598239	0.16960311	3.2323138	21	12 2.9	21.2
485341 2011 CO_{4}	16.1	X	261.05224	221.44089	340.20760	11.79846	0.1033981	0.17708931	3.1405653	21	—	—
485342 2011 CB_{6}	15.9	X	335.95237	328.03034	150.74761	12.16909	0.0905709	0.17910834	3.1169190	21	—	—
485343 2011 CU_{10}	16.3	X	62.75361	286.19605	119.18731	10.66234	0.1034182	0.18490897	3.0513878	21	—	—
485344 2011 CE_{27}	16.5	X	265.97182	214.36244	321.11620	8.94534	0.0636084	0.17561127	3.1581624	21	—	—
485345 2011 CY_{29}	15.9	X	253.11528	78.75246	148.09462	26.37148	0.3471345	0.17352049	3.1834806	21	—	—
485346 2011 CH_{30}	16.4	X	234.59515	291.09838	311.01158	13.95144	0.2431880	0.17869512	3.1217222	21	—	—
485347 2011 CV_{34}	16.1	X	284.00955	190.43655	324.31229	4.05726	0.1372575	0.17112512	3.2131195	21	12 28.3	20.2
485348 2011 CU_{35}	16.4	X	355.32601	304.96702	119.83916	11.30217	0.2031807	0.17607886	3.1525688	21	—	—
485349 2011 CN_{39}	15.4	X	329.50093	104.30386	0.01818	16.48588	0.1218794	0.17151440	3.2082558	21	—	—
485350 2011 CZ_{41}	16.5	X	315.62155	329.18467	122.97480	12.80070	0.0627272	0.16970522	3.2310171	21	12 5.6	20.9
485351 2011 CE_{43}	16.2	X	50.38499	64.58039	302.69311	9.38298	0.0857742	0.17089282	3.2160306	21	12 30.3	20.8
485352 2011 CA_{44}	16.9	X	358.32000	271.17411	149.86470	10.13210	0.1669935	0.17454681	3.1709893	21	—	—
485353 2011 CN_{45}	16.1	X	352.55547	332.72745	125.26620	16.22598	0.0655638	0.17701177	3.1414823	21	—	—
485354 2011 CW_{48}	16.3	X	231.66540	266.49648	298.07008	9.30251	0.0896289	0.17223945	3.1992459	21	12 29.0	21.0
485355 2011 CC_{62}	16.8	X	233.82091	301.88912	281.15573	1.19510	0.0694369	0.17508492	3.1644888	21	—	—
485356 2011 CY_{70}	15.7	X	143.06334	140.06059	161.02521	11.09547	0.0918128	0.17046751	3.2213777	21	—	—
485357 2011 CJ_{71}	17.1	X	286.00230	309.06289	154.66391	24.26021	0.0985359	0.34961605	1.9956076	21	12 18.9	19.5
485358 2011 CU_{77}	16.6	X	287.51980	35.08524	105.35376	13.32756	0.3060570	0.16953039	3.2332380	21	11 24.2	20.6
485359 2011 CZ_{77}	15.7	X	177.73263	306.19037	323.98396	13.34854	0.0797772	0.17190986	3.2033338	21	—	—
485360 2011 CZ_{85}	16.6	X	342.72342	281.79170	161.06022	25.64199	0.2416521	0.17472589	3.1688223	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
485361 2011 CQ_{90}	16.3	X	203.10702	325.25046	307.00956	10.17169	0.1181159	0.17738563	3.1370667	21	—	—
485362 2011 CY_{102}	16.4	X	320.25639	217.99052	243.72962	1.47831	0.0563005	0.16802043	3.2525800	21	12 20.9	20.8
485363 2011 CV_{107}	16.4	X	230.85629	97.87986	151.06120	11.37972	0.0665941	0.17840591	3.1250950	21	—	—
485364 2011 CF_{113}	16.5	X	327.92213	300.57935	169.33706	16.64070	0.2164345	0.17472042	3.1688883	21	—	—
485365 2011 DF_{13}	16.3	X	231.06180	78.45034	157.62659	10.28165	0.1388876	0.17627749	3.1502001	21	—	—
485366 2011 DE_{18}	16.6	X	257.48958	166.53327	1.66133	13.08019	0.0714921	0.16184982	3.3347343	21	12 15.2	21.5
485367 2011 DW_{26}	16.2	X	222.91933	101.19702	148.43091	17.69118	0.1586926	0.17580068	3.1558935	21	—	—
485368 2011 ER_{2}	16.5	X	347.01205	298.65381	148.84333	9.82487	0.0619618	0.17340448	3.1849003	21	—	—
485369 2011 EX_{2}	17.1	X	335.87799	274.08060	157.84599	13.61598	0.2727103	0.17188214	3.2036781	21	12 11.4	20.3
485370 2011 EK_{10}	16.0	X	222.82908	85.66133	151.37740	11.50386	0.1338806	0.17311303	3.1884740	21	—	—
485371 2011 EJ_{12}	16.5	X	340.67638	300.57154	154.31677	17.07480	0.2043985	0.17545107	3.1600845	21	—	—
485372 2011 ED_{14}	16.1	X	260.06394	63.69625	176.83033	25.72867	0.2467921	0.17250609	3.1959484	21	—	—
485373 2011 EG_{24}	17.8	X	3.56448	112.45357	33.26545	5.61179	0.2632836	0.18776145	3.0204044	21	—	—
485374 2011 EN_{30}	15.1	X	206.12993	166.45006	116.45667	9.11183	0.1588745	0.17652437	3.1472622	21	—	—
485375 2011 EU_{74}	16.3	X	307.57780	150.60808	352.08957	17.19060	0.1623087	0.17643482	3.1483271	21	—	—
485376 2011 EJ_{80}	16.1	X	291.67479	3.50201	194.94294	16.93061	0.1440252	0.17856395	3.1232508	21	—	—
485377 2011 FS_{21}	16.0	X	293.19501	162.75335	10.93247	28.28236	0.1295196	0.17439416	3.1728395	21	—	—
485378 2011 FO_{53}	18.0	X	27.81171	159.77224	95.51112	4.95454	0.1996808	0.30787807	2.1721186	21	7 31.9	19.4
485379 2011 FO_{56}	18.5	X	59.49210	356.56608	246.64350	4.50307	0.2418163	0.31203194	2.1527983	21	9 13.3	21.0
485380 2011 FY_{71}	16.0	X	248.79923	154.64409	20.91163	15.59947	0.1914333	0.16221813	3.3296848	21	11 25.1	21.1
485381 2011 GK_{24}	17.7	X	73.48030	269.27238	302.31040	3.99474	0.0644084	0.31117413	2.1567529	21	7 19.9	19.9
485382 2011 GT_{66}	17.2	X	350.17420	199.86456	64.63292	9.33251	0.1981232	0.29997584	2.2100997	21	5 4.6	18.7
485383 2011 GB_{85}	18.6	X	56.95805	199.32663	20.29746	4.86438	0.0821422	0.30684076	2.1770113	21	7 9.2	20.8
485384 2011 HZ_{19}	18.9	X	92.36535	220.79104	339.27401	2.66857	0.0919090	0.31133535	2.1560083	21	8 4.9	21.2
485385 2011 HM_{69}	18.2	X	28.01569	256.95166	23.41356	3.83908	0.1868346	0.31160806	2.1547502	21	9 12.9	19.9
485386 2011 JA_{17}	18.0	X	32.12272	167.77098	102.44513	5.97048	0.1089618	0.30902638	2.1667344	21	8 21.6	20.0
485387 2011 JS_{26}	18.1	X	312.66137	153.05740	138.56025	6.47508	0.1219431	0.29132511	2.2536377	21	4 21.1	20.6
485388 2011 KL_{2}	17.4	X	230.72832	266.81721	86.96208	8.42355	0.1480522	0.28370202	2.2938293	21	4 6.3	21.0
485389 2011 KT_{6}	17.8	X	352.83897	198.41806	69.53570	2.77142	0.1186051	0.29726797	2.2235009	21	5 24.5	19.7
485390 2011 KN_{27}	17.5	X	351.59070	18.23052	242.04219	6.93202	0.1068076	0.29391116	2.2403988	21	5 9.9	19.4
485391 2011 KZ_{30}	18.3	X	3.13210	175.56635	96.44792	3.70901	0.1815340	0.29857694	2.2169975	21	6 22.8	19.6
485392 2011 KM_{31}	17.5	X	346.18664	11.76382	276.68124	8.92611	0.2188699	0.29722382	2.2237211	21	6 1.9	18.9
485393 2011 KC_{32}	15.3	X	80.03120	37.64421	237.35967	6.75038	0.1840460	0.12384371	3.9861479	21	10 21.2	21.2
485394 2011 KN_{42}	18.6	X	54.33564	222.92533	32.63317	0.36620	0.1605644	0.31050998	2.1598272	21	9 13.1	20.6
485395 2011 KA_{48}	18.3	X	40.05110	146.19280	102.16486	6.50100	0.1575759	0.30454688	2.1879293	21	8 7.9	20.1
485396 2011 LV_{2}	14.0	X	283.12977	85.84902	259.35653	15.17342	0.1362831	0.08157062	5.2655879	21	5 31.3	20.9
485397 2011 LS_{19}	16.8	X	122.56820	134.93349	167.74421	15.06343	0.1472108	0.22679692	2.6630416	21	—	—
485398 2011 LN_{20}	17.1	X	114.81404	95.20148	273.03731	10.89879	0.2629448	0.23242462	2.6198794	21	1 12.4	20.6
485399 2011 MU_{7}	17.2	X	201.83848	186.05848	130.97419	10.40566	0.2281173	0.25522438	2.4614326	21	1 24.3	21.5
485400 2011 NR	18.0	X	351.10421	134.07571	140.61934	7.05063	0.2406502	0.29087504	2.2559618	21	5 21.6	19.4
485401 2011 NL_{1}	16.9	X	297.04283	168.98710	126.33449	24.25499	0.1851745	0.27861735	2.3216528	21	4 1.9	20.5
485402 2011 NY_{1}	17.4	X	347.51879	208.42738	80.15855	7.22805	0.1926911	0.28062298	2.3105776	21	6 11.0	18.9
485403 2011 NF_{2}	18.0	X	10.97931	349.91575	260.63924	9.13780	0.1646972	0.29081991	2.2562469	21	6 3.9	19.6
485404 2011 OO_{1}	17.5	X	177.90827	138.96621	237.81466	5.48728	0.1199422	0.25966944	2.4332617	21	3 9.3	21.2
485405 2011 OB_{2}	17.3	X	349.65719	79.61039	168.34545	12.70319	0.1239305	0.27826329	2.3236218	21	4 20.7	19.6
485406 2011 OL_{3}	17.7	X	4.09435	321.49130	301.55478	9.69804	0.0958982	0.28819057	2.2699495	21	6 10.1	19.9
485407 2011 OW_{6}	17.8	X	216.83644	30.52155	336.39428	5.72201	0.1336561	0.27148080	2.3621636	21	4 4.3	21.5
485408 2011 OG_{8}	17.5	X	247.60505	195.45225	112.40787	2.30652	0.1959164	0.26580934	2.3956455	21	2 18.9	21.3
485409 2011 OS_{23}	18.1	X	31.89615	173.31235	77.45637	4.43380	0.1824535	0.29641077	2.2277856	21	7 29.9	19.8
485410 2011 OV_{27}	17.5	X	170.97747	342.19075	10.94007	5.00868	0.2059838	0.25489011	2.4635841	21	2 11.9	21.5
485411 2011 OW_{34}	17.5	X	168.47036	28.68432	342.23634	6.26655	0.1811371	0.25824891	2.4421765	21	2 27.8	21.2
485412 2011 OP_{56}	13.2	X	309.81427	169.08706	139.95127	24.47025	0.0562300	0.08165458	5.2619777	21	6 6.4	20.3
485413 2011 OC_{60}	13.7	X	215.07469	283.11874	131.69672	22.15136	0.1031622	0.08256506	5.2232225	21	6 16.5	21.2
485414 2011 OD_{60}	14.3	X	287.63543	203.43447	131.37322	1.78954	0.0126315	0.08375640	5.1735744	21	6 10.0	21.1
485415 2011 OF_{60}	14.1	X	133.22274	16.43356	109.09238	15.32268	0.1232363	0.08329933	5.1924826	21	6 19.1	21.4
485416 2011 OJ_{60}	14.2	X	354.29035	302.48029	332.39828	4.19048	0.0628802	0.08504948	5.1210018	21	6 18.0	20.7
485417 2011 OK_{60}	13.5	X	86.40771	33.76452	142.03665	24.13724	0.0455377	0.08130892	5.2768805	21	6 20.3	20.7
485418 2011 OL_{60}	14.3	X	235.73627	221.42062	170.47269	10.72820	0.0354398	0.08184806	5.2536820	21	6 14.5	21.5
485419 2011 PM_{8}	17.8	X	32.38290	325.15027	320.55989	6.73122	0.1592553	0.29739532	2.2228661	21	9 18.1	20.0
485420 2011 PO_{9}	17.7	X	260.95765	147.48570	167.74760	14.72571	0.1763856	0.26917319	2.3756448	21	3 12.9	21.3
485421 2011 QG	13.6	X	276.92937	87.85722	269.67392	19.66227	0.1487584	0.08339306	5.1885911	21	6 6.1	20.5
485422 2011 QH_{3}	13.3	X	133.05696	238.22163	256.01514	14.58887	0.0407177	0.08316520	5.1980639	21	6 20.5	20.3
485423 2011 QO_{5}	13.6	X	328.71371	10.09656	285.24937	15.36799	0.1174846	0.08493386	5.1256484	21	6 3.4	20.1
485424 2011 QU_{14}	17.5	X	210.67883	341.02718	352.00582	3.31414	0.1516826	0.25708592	2.4495361	21	2 19.1	21.3
485425 2011 QS_{16}	17.8	X	209.88672	154.61849	183.21838	4.42429	0.1203985	0.25819209	2.4425348	21	2 22.3	21.6
485426 2011 QD_{22}	17.9	X	338.01673	334.83917	303.14729	3.87366	0.2271352	0.28445259	2.2897925	21	4 21.9	19.9
485427 2011 QF_{22}	16.8	X	101.74752	51.31456	330.70476	13.89576	0.3222403	0.23168527	2.6254501	21	1 26.5	20.1
485428 2011 QY_{25}	17.2	X	81.01791	266.66934	157.74968	9.40304	0.1994186	0.23823532	2.5771040	21	1 24.8	20.0
485429 2011 QP_{31}	17.8	X	330.33438	4.94633	282.27469	6.86748	0.0745275	0.28116762	2.3075928	21	5 17.8	20.3
485430 2011 QR_{41}	17.5	X	244.49836	294.97149	8.95069	1.53117	0.1842418	0.26253122	2.4155466	21	2 12.2	21.4
485431 2011 QZ_{49}	13.0	X	321.48801	43.61053	258.91450	21.78785	0.1362883	0.08429985	5.1513158	21	5 30.9	19.4
485432 2011 QP_{51}	16.9	X	79.48266	270.85336	126.15338	29.03745	0.3203941	0.23080809	2.6320979	21	1 8.2	19.4
485433 2011 QW_{54}	17.6	X	209.07205	123.43740	247.87990	5.49634	0.1272389	0.26309003	2.4121249	21	4 3.0	21.4
485434 2011 QG_{55}	18.1	X	161.58589	99.28607	258.18975	4.53409	0.1318575	0.24740895	2.5129997	21	1 31.1	21.8
485435 2011 QG_{56}	16.8	X	19.59250	200.57316	171.12050	10.73742	0.2521853	0.21141464	2.7906970	21	12 28.1	20.4
485436 2011 QO_{58}	17.2	X	153.42449	210.40854	181.47398	6.75671	0.1071836	0.25339261	2.4732808	21	3 3.6	20.7
485437 2011 QS_{60}	17.5	X	258.75065	50.73773	257.06528	5.43250	0.1288090	0.26439321	2.4041922	21	3 2.6	21.1
485438 2011 QC_{63}	17.1	X	294.63011	319.23697	358.04301	8.25545	0.1846117	0.27510652	2.3413633	21	4 17.6	20.1
485439 2011 QQ_{64}	14.0	X	304.08985	157.84140	164.04484	28.73620	0.0846939	0.08067339	5.3045575	21	6 9.1	21.2
485440 2011 QH_{65}	17.3	X	242.75615	162.97045	143.46255	3.17729	0.2058502	0.26122394	2.4235988	21	2 12.6	21.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
485441 2011 QY_{66}	17.2	X	286.87262	259.72858	58.74037	6.26538	0.2122313	0.27467207	2.3438315	21	4 10.9	20.4
485442 2011 QF_{69}	17.0	X	238.12927	16.27080	348.67065	6.68669	0.1571179	0.27111084	2.3643120	21	4 21.6	20.7
485443 2011 QO_{71}	17.8	X	274.71892	345.80527	304.64228	1.36192	0.1588813	0.26666159	2.3905385	21	2 24.6	21.4
485444 2011 QS_{71}	17.1	X	208.76542	170.30859	185.61090	6.47414	0.1604483	0.26165971	2.4209072	21	3 15.9	21.0
485445 2011 QS_{80}	17.4	X	126.24102	236.09354	208.58819	7.48484	0.1876872	0.25844533	2.4409390	21	4 20.6	20.8
485446 2011 QS_{85}	17.7	X	71.58612	9.29295	22.83518	5.23770	0.3333130	0.22605978	2.6688276	21	—	—
485447 2011 QL_{88}	16.9	X	38.39584	165.04194	346.05323	6.87202	0.1159895	0.25476184	2.4644110	21	2 27.8	19.2
485448 2011 QS_{88}	17.8	X	304.13939	310.53536	354.76038	3.27461	0.2122429	0.27689829	2.3312519	21	4 10.8	20.6
485449 2011 QD_{90}	14.1	X	266.59356	38.80344	333.28814	22.78198	0.0309115	0.08216944	5.2399745	21	6 29.9	21.3
485450 2011 QB_{95}	17.0	X	247.77734	357.82063	307.16186	5.88516	0.1441307	0.26507030	2.4000963	21	2 16.6	20.6
485451 2011 QH_{99}	14.2	X	14.07182	111.24911	148.46331	13.65309	0.0872432	0.08388707	5.1682006	21	6 27.8	20.7
485452 2011 QJ_{99}	14.1	X	69.94263	30.22146	170.45203	25.81185	0.0233206	0.08230745	5.2341153	21	6 24.5	21.3
485453 2011 RK_{2}	17.7	X	191.36850	231.06093	188.59355	5.94895	0.0963075	0.27104699	2.3646833	21	5 20.9	21.1
485454 2011 RQ_{2}	18.0	X	337.19364	291.55381	340.66940	7.13806	0.0917840	0.27617225	2.3353359	21	5 2.8	20.6
485455 2011 RJ_{3}	18.1	X	179.33154	189.37515	199.94146	1.79786	0.1783053	0.25870811	2.4392858	21	3 31.9	22.0
485456 2011 RO_{3}	14.2	X	155.43279	172.42463	314.20129	18.17164	0.0205043	0.08326755	5.1938036	21	7 7.8	21.2
485457 2011 RX_{3}	16.5	X	8.69655	265.79581	139.76858	14.92963	0.1122884	0.21009717	2.8023514	21	—	—
485458 2011 RV_{7}	18.2	X	112.40444	189.87189	226.22189	2.10197	0.1349366	0.24678840	2.5172106	21	2 18.2	21.3
485459 2011 RF_{11}	17.3	X	297.60279	32.81128	257.91939	6.40695	0.1016478	0.26671723	2.3902060	21	3 28.9	20.4
485460 2011 RX_{13}	17.5	X	346.78019	258.64412	185.46161	8.91081	0.2181645	0.21661959	2.7458126	21	—	—
485461 2011 RH_{16}	16.8	X	70.47187	218.55319	164.01496	13.61656	0.2603870	0.22599557	2.6693331	21	—	—
485462 2011 RF_{18}	17.6	X	61.96772	79.45374	338.30898	11.77566	0.2744319	0.22846985	2.6500259	21	—	—
485463 2011 RK_{18}	17.9	X	235.21938	239.14499	57.35196	4.63243	0.1835813	0.25298189	2.4759570	21	1 28.4	21.9
485464 2011 SD_{2}	17.7	X	7.52387	274.15951	339.51631	6.63626	0.0869968	0.27883004	2.3204720	21	5 31.9	20.1
485465 2011 SZ_{2}	18.2	X	61.71223	93.97961	335.24316	5.11431	0.2468022	0.23253293	2.6190658	21	1 1.8	20.3
485466 2011 SL_{11}	16.9	X	73.09169	82.66229	346.95380	12.70993	0.2531021	0.23303338	2.6153147	21	2 1.6	19.5
485467 2011 SD_{22}	17.2	X	122.18514	60.16380	331.11506	16.23852	0.1600522	0.24224295	2.5486016	21	2 6.6	20.6
485468 2011 SY_{22}	17.1	X	53.27533	213.64121	206.05121	2.87148	0.3019576	0.22407904	2.6845318	21	—	—
485469 2011 SO_{37}	17.3	X	41.16520	250.51808	193.69344	11.65777	0.1365801	0.22655395	2.6649452	21	—	—
485470 2011 SC_{39}	16.9	X	200.78852	12.82496	15.22471	6.86034	0.1178481	0.26160117	2.4212684	21	4 17.7	20.4
485471 2011 SK_{48}	18.1	X	320.85559	278.20416	1.49198	6.24763	0.1111340	0.27249841	2.3562791	21	4 15.7	20.9
485472 2011 SP_{57}	17.3	X	139.86331	174.83598	203.41834	1.96080	0.1167892	0.23615120	2.5922444	21	2 3.1	21.0
485473 2011 SD_{58}	17.0	X	330.75167	299.50590	200.04060	12.79994	0.1017491	0.23565933	2.5958501	21	—	—
485474 2011 SL_{59}	18.3	X	298.76152	68.33481	210.17064	2.88480	0.1169746	0.26721006	2.3872662	21	3 13.7	21.4
485475 2011 SF_{61}	17.0	X	292.63920	21.68016	277.17601	10.72658	0.1511934	0.27105758	2.3646218	21	3 22.5	20.5
485476 2011 SV_{62}	17.4	X	99.34504	66.42502	315.32279	14.52487	0.3034191	0.23299057	2.6156351	21	1 18.5	20.5
485477 2011 SK_{65}	17.5	X	85.99309	159.46624	218.40685	6.85160	0.3029247	0.22826314	2.6516255	21	—	—
485478 2011 SY_{70}	17.1	X	74.06436	37.46019	347.39958	11.32664	0.1990844	0.22614067	2.6681911	21	—	—
485479 2011 SQ_{71}	13.8	X	325.73222	74.00055	246.24219	15.04191	0.0946708	0.08308687	5.2013304	21	6 29.1	20.4
485480 2011 SY_{86}	17.7	X	97.86854	104.95663	298.76969	2.22794	0.2025540	0.23492152	2.6012825	21	1 26.5	20.5
485481 2011 SL_{87}	17.4	X	85.82581	72.59607	3.83203	17.79308	0.1130112	0.23960883	2.5672461	21	2 14.3	20.7
485482 2011 SG_{89}	17.0	X	42.25412	88.71036	5.75701	13.17024	0.1228985	0.23170262	2.6253190	21	—	—
485483 2011 SM_{92}	17.0	X	48.63106	219.10307	225.05417	4.42672	0.1344524	0.22810165	2.6528769	21	—	—
485484 2011 SB_{107}	17.2	X	101.30397	338.19919	31.55814	7.32179	0.2282218	0.22900777	2.6458745	21	—	—
485485 2011 SK_{107}	16.6	X	149.56740	316.36395	40.68157	12.43529	0.1112825	0.23311196	2.6147270	21	1 22.4	20.6
485486 2011 SB_{117}	17.7	X	88.81010	75.34250	311.25865	11.58915	0.2861873	0.22862612	2.6488182	21	1 6.1	20.5
485487 2011 SA_{130}	17.6	X	315.04489	103.84301	113.54793	3.64551	0.0150165	0.24455293	2.5325273	21	2 2.8	20.9
485488 2011 SX_{130}	17.7	X	58.61372	252.35687	173.36111	6.63749	0.1432658	0.22857264	2.6492314	21	—	—
485489 2011 SN_{138}	18.1	X	337.94059	89.44589	187.61624	4.48801	0.2116745	0.27777631	2.3263367	21	4 27.5	19.9
485490 2011 SU_{169}	17.8	X	114.59336	357.93048	23.47680	4.03416	0.2137207	0.23484488	2.6018484	21	1 23.5	21.2
485491 2011 SY_{173}	16.4	X	149.73734	8.55619	348.67448	10.30720	0.2950198	0.23923465	2.5699223	21	2 8.7	20.7
485492 2011 SO_{174}	17.3	X	215.15353	139.95165	199.95383	10.72209	0.2226044	0.25935179	2.4352481	21	2 27.8	21.6
485493 2011 SR_{181}	17.5	X	80.07278	107.23019	305.80481	2.60159	0.2461742	0.22947498	2.6422819	21	1 18.5	19.9
485494 2011 SK_{188}	17.4	X	68.05248	74.92101	349.17995	8.27861	0.1171804	0.23264654	2.6182131	21	—	—
485495 2011 SC_{192}	17.3	X	234.06585	44.66687	292.06290	9.11287	0.2459960	0.26009119	2.4306306	21	3 8.3	21.6
485496 2011 SQ_{193}	17.8	X	194.48725	303.04446	58.76961	3.56848	0.1940053	0.25494639	2.4632215	21	3 14.1	21.9
485497 2011 SH_{202}	16.7	X	8.58244	248.12983	190.56232	14.97451	0.1539600	0.21808830	2.7334710	21	—	—
485498 2011 SX_{210}	17.7	X	165.46477	219.01163	173.58117	5.02307	0.1133008	0.25767344	2.4458113	21	3 18.9	21.1
485499 2011 SY_{213}	17.4	X	88.82288	235.31916	163.81001	13.72438	0.2732762	0.23286137	2.6166025	21	1 16.8	20.4
485500 2011 SY_{215}	16.9	X	46.28233	204.46096	160.73766	10.10320	0.2301691	0.21666178	2.7454562	21	—	—
485501 2011 SQ_{230}	17.7	X	82.16373	263.73532	187.89875	24.30084	0.2336110	0.24142049	2.5543866	21	3 9.8	20.6
485502 2011 SQ_{232}	17.6	X	88.14615	264.91086	135.11618	5.67516	0.1647354	0.23134790	2.6280019	21	1 1.3	20.5
485503 2011 ST_{233}	16.9	X	88.67764	94.37075	212.99142	17.13236	0.1357667	0.20968512	2.8060214	21	12 13.5	21.4
485504 2011 SX_{242}	18.1	X	98.20099	259.07422	167.20493	9.23542	0.0516359	0.24425898	2.5345587	21	1 30.6	21.4
485505 2011 SY_{254}	16.6	X	41.56506	203.81327	143.08976	13.19793	0.2613433	0.21177902	2.7874949	21	12 27.8	20.7
485506 2011 SV_{260}	16.8	X	1.53165	221.13977	213.70323	8.10020	0.1385313	0.21681461	2.7441659	21	—	—
485507 2011 SY_{265}	14.0	X	339.14346	357.23003	307.85456	14.14394	0.0655884	0.08462884	5.1379571	21	7 4.7	20.6
485508 2011 SA_{267}	17.2	X	60.78182	23.05712	47.05659	5.41421	0.2534395	0.22808587	2.6529993	21	1 3.4	19.3
485509 2011 SA_{270}	16.8	X	16.07167	290.63996	110.23071	8.65912	0.1695967	0.21572042	2.7534374	21	—	—
485510 2011 SJ_{275}	16.6	X	61.09214	181.15351	304.71835	12.65103	0.2056984	0.24004967	2.5641021	21	3 11.1	19.3
485511 2011 TM_{6}	17.9	X	99.26340	343.61983	78.02375	2.97198	0.1831355	0.24073554	2.5592296	21	2 18.5	20.9
485512 2011 TB_{10}	17.0	X	59.66711	287.81187	184.34133	28.03755	0.4179188	0.23818934	2.5774357	21	4 4.9	18.9
485513 2011 TE_{13}	16.7	X	57.29651	90.48507	336.88937	12.32739	0.0969237	0.23038816	2.6352952	21	—	—
485514 2011 TY_{15}	16.3	X	86.80557	98.24400	338.53451	27.17374	0.2160514	0.23691423	2.5866755	21	2 25.7	19.0
485515 2011 UG_{7}	17.8	X	115.96713	332.24431	45.55396	2.13040	0.1723271	0.23124406	2.6287886	21	1 14.5	21.3
485516 2011 UG_{9}	17.3	X	75.75613	30.10717	47.17427	12.76717	0.1259868	0.23180121	2.6245746	21	1 30.9	20.6
485517 2011 UJ_{11}	17.7	X	138.59683	352.22978	2.48313	17.31857	0.1524672	0.23942369	2.5685694	21	1 12.2	21.7
485518 2011 UZ_{12}	17.6	X	130.93291	352.90661	32.03003	3.50287	0.0986233	0.23753960	2.5821335	21	1 31.2	21.1
485519 2011 UC_{17}	16.8	X	213.83550	121.21257	206.04223	5.47174	0.0837508	0.24328188	2.5413406	21	2 14.1	20.7
485520 2011 UF_{24}	16.9	X	50.13639	68.88144	29.60439	12.52139	0.2115393	0.22917932	2.6445539	21	1 20.4	19.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
485521 2011 UB_{30}	17.2	X	24.58573	259.67152	220.25179	11.84792	0.2092688	0.22447139	2.6814027	21	—	—
485522 2011 UU_{30}	16.7	X	148.82484	290.95997	52.68017	10.94054	0.1015082	0.22988648	2.6391278	21	1 1.4	20.5
485523 2011 UY_{30}	16.4	X	87.29217	319.82963	51.65810	17.34556	0.0572890	0.21863536	2.7289094	21	—	—
485524 2011 UJ_{31}	16.8	X	128.31001	173.09100	226.49220	11.29403	0.0552517	0.23670576	2.5881940	21	2 3.8	20.6
485525 2011 UU_{32}	16.9	X	92.00219	88.50701	349.65761	11.27689	0.1678460	0.23953908	2.5677444	21	2 27.9	19.8
485526 2011 UZ_{35}	17.6	X	90.42086	153.10783	216.86841	8.62253	0.2747651	0.22255407	2.6967810	21	—	—
485527 2011 UV_{36}	17.0	X	149.03238	298.25178	53.22912	14.81374	0.1639440	0.23336264	2.6128541	21	1 20.5	21.1
485528 2011 UU_{38}	17.4	X	84.21103	314.22210	65.99423	5.99777	0.1281371	0.22133416	2.7066811	21	—	—
485529 2011 UL_{45}	18.2	X	301.60064	167.11152	145.11082	10.66284	0.1563867	0.27102358	2.3648195	21	5 2.1	21.3
485530 2011 UX_{45}	17.1	X	98.73255	338.32942	38.50803	12.93361	0.3049580	0.22846842	2.6500369	21	1 12.8	20.5
485531 2011 UX_{50}	17.3	X	58.19001	344.95593	79.12903	3.28003	0.0711896	0.22486835	2.6782462	21	—	—
485532 2011 UW_{51}	17.5	X	82.36363	330.38111	89.99713	3.83129	0.1835475	0.23041967	2.6350550	21	1 23.1	20.4
485533 2011 UX_{53}	16.8	X	290.74824	64.57663	232.15669	13.77230	0.1571555	0.25822149	2.4423494	21	3 19.4	20.4
485534 2011 UH_{54}	17.3	X	52.99404	216.90555	227.28675	6.71918	0.1723882	0.22541588	2.6739075	21	—	—
485535 2011 UW_{61}	17.1	X	160.17509	284.73182	63.76286	13.64703	0.2021299	0.23505075	2.6003289	21	2 1.0	21.4
485536 2011 UO_{62}	17.0	X	78.98188	195.61814	227.69553	13.02132	0.2204575	0.22997338	2.6384630	21	1 21.9	20.1
485537 2011 UW_{66}	17.5	X	316.86136	94.38081	158.94721	6.08110	0.0768724	0.25538982	2.4603694	21	3 13.9	20.5
485538 2011 UK_{72}	17.5	X	76.54580	200.11327	228.31921	4.46198	0.1768100	0.23033312	2.6357151	21	1 21.2	20.3
485539 2011 UP_{84}	17.6	X	80.66177	30.78291	29.34140	7.66276	0.2202296	0.22813936	2.6525846	21	1 28.5	20.5
485540 2011 UM_{85}	17.2	X	54.26508	171.23782	272.10555	2.81915	0.0688547	0.22651989	2.6652124	21	—	—
485541 2011 UF_{89}	16.6	X	221.48935	57.05802	247.26061	7.71185	0.0353716	0.23580022	2.5948161	21	1 25.9	20.4
485542 2011 UL_{93}	16.8	X	34.90249	97.55033	22.69505	13.10794	0.2214589	0.23222995	2.6213433	21	1 15.3	19.3
485543 2011 UP_{104}	18.0	X	109.71550	7.80909	30.54028	2.38234	0.1190505	0.23665934	2.5885325	21	1 23.8	21.3
485544 2011 US_{109}	17.5	X	77.00244	29.11443	34.49670	5.42392	0.0796861	0.23048952	2.6345226	21	1 5.7	20.8
485545 2011 UG_{111}	16.6	X	73.31678	108.89116	265.45248	10.03547	0.1985370	0.22142127	2.7059711	21	—	—
485546 2011 UM_{112}	17.2	X	133.21358	148.85814	215.25210	8.15011	0.2223146	0.23346600	2.6120829	21	1 21.2	21.1
485547 2011 UK_{113}	16.6	X	113.28901	186.27522	226.82108	21.44916	0.0201285	0.23604003	2.5930583	21	1 24.6	20.6
485548 2011 UR_{114}	16.5	X	322.36765	160.77470	214.71091	8.74522	0.1107575	0.18299156	3.0726659	21	9 2.2	20.5
485549 2011 UY_{120}	17.3	X	317.13476	165.69827	144.81789	14.56491	0.2173966	0.27972837	2.3155014	21	5 13.7	20.1
485550 2011 UH_{123}	17.2	X	240.52246	284.23382	49.79747	5.42027	0.2037810	0.26254514	2.4154612	21	3 18.7	21.1
485551 2011 UW_{125}	16.4	X	142.26689	316.02296	9.47412	13.09481	0.2558776	0.23115654	2.6294521	21	—	—
485552 2011 UF_{128}	17.3	X	141.79584	230.29061	130.54219	8.40549	0.1724244	0.23799592	2.5788319	21	1 21.5	21.0
485553 2011 UW_{133}	17.1	X	73.01175	350.90739	99.79199	10.73775	0.1279040	0.23730283	2.5838508	21	2 10.5	20.0
485554 2011 UY_{140}	17.7	X	56.62490	314.02314	100.63449	3.94629	0.1818645	0.22317272	2.6917950	21	—	—
485555 2011 UJ_{143}	17.1	X	135.05165	222.25888	161.87548	9.28925	0.1921052	0.23680925	2.5874399	21	2 14.0	21.0
485556 2011 UT_{143}	16.7	X	63.97561	287.00102	92.82764	9.82753	0.1850426	0.21564126	2.7541112	21	—	—
485557 2011 UW_{143}	17.1	X	11.02777	31.22920	54.73815	9.86398	0.2091736	0.21252002	2.7810117	21	—	—
485558 2011 UZ_{144}	16.8	X	51.20160	83.66190	357.93731	13.05621	0.1595757	0.22665977	2.6641158	21	—	—
485559 2011 UD_{145}	17.1	X	43.36483	112.47097	39.68828	14.51366	0.1343950	0.23857522	2.5746557	21	3 22.3	20.0
485560 2011 UT_{159}	17.5	X	52.51284	40.17913	43.93941	9.66495	0.3551554	0.22675787	2.6633473	21	1 16.9	19.0
485561 2011 UW_{162}	17.1	X	34.09819	236.72458	222.55248	12.27036	0.1650120	0.22488359	2.6781252	21	—	—
485562 2011 UA_{163}	16.7	X	84.85119	140.54054	244.62066	8.32142	0.1477730	0.22261005	2.6963290	21	—	—
485563 2011 UQ_{164}	16.0	X	317.61842	295.02041	63.54577	13.48961	0.2038380	0.18351640	3.0668047	21	7 28.0	19.7
485564 2011 UN_{166}	17.0	X	43.32394	21.40595	65.60622	5.90437	0.1474174	0.22203814	2.7009569	21	—	—
485565 2011 UQ_{168}	18.3	X	103.44807	197.87434	204.21262	7.45113	0.1660722	0.23931117	2.5693745	21	1 23.6	21.6
485566 2011 US_{172}	17.2	X	54.48115	178.23067	280.93826	9.03267	0.2141527	0.22955229	2.6416886	21	1 25.5	19.6
485567 2011 UZ_{172}	16.9	X	69.69217	18.99196	34.79774	12.18624	0.1712315	0.22598408	2.6694236	21	—	—
485568 2011 UR_{175}	17.0	X	52.11977	71.25189	20.42304	11.76979	0.1510071	0.22903638	2.6456541	21	1 9.7	20.0
485569 2011 UO_{176}	17.6	X	86.63255	88.77890	316.60581	2.00397	0.1117540	0.22804821	2.6532913	21	—	—
485570 2011 US_{177}	17.5	X	44.22513	299.22542	87.91087	3.65685	0.1895019	0.21237636	2.7822657	21	—	—
485571 2011 UX_{182}	16.6	X	179.13596	280.38742	49.76440	15.33694	0.1395590	0.23421511	2.6065103	21	1 22.8	20.9
485572 2011 UH_{183}	17.6	X	138.57184	34.25320	337.43613	1.83483	0.1716762	0.23346811	2.6120671	21	2 1.7	21.4
485573 2011 UK_{186}	17.4	X	121.49235	282.47509	114.91128	4.44554	0.1341748	0.23740741	2.5830920	21	2 8.9	20.8
485574 2011 UW_{186}	17.1	X	55.36630	279.67598	193.84589	12.34644	0.2127477	0.23347326	2.6120287	21	2 14.7	19.8
485575 2011 UB_{189}	17.5	X	101.28017	13.10788	24.00552	7.27813	0.2447053	0.23091853	2.6312585	21	2 2.3	20.8
485576 2011 UK_{193}	16.5	X	93.60632	269.85444	104.52664	13.36977	0.1883128	0.22481740	2.6786508	21	—	—
485577 2011 UV_{196}	17.5	X	70.03577	149.39961	250.96899	9.55119	0.1489897	0.22229867	2.6988462	21	—	—
485578 2011 UB_{199}	17.2	X	107.98034	309.82321	69.06761	7.76029	0.1606390	0.22716563	2.6601592	21	1 4.3	20.6
485579 2011 UF_{199}	16.4	X	201.78824	54.34051	257.51369	13.47972	0.1057572	0.23425592	2.6062076	21	1 14.8	20.6
485580 2011 UD_{200}	16.2	X	169.22398	57.70453	263.40481	11.53856	0.1358609	0.22772114	2.6558313	21	—	—
485581 2011 UO_{200}	16.8	X	182.55696	323.96173	12.91580	6.33476	0.2210244	0.23930371	2.5694279	21	2 5.6	21.1
485582 2011 UT_{201}	17.6	X	112.68538	332.67268	68.14636	4.69315	0.1421612	0.23333804	2.6130377	21	2 4.9	21.1
485583 2011 UQ_{203}	17.2	X	74.72534	317.30642	94.10921	3.31294	0.0598303	0.22374938	2.6871680	21	—	—
485584 2011 UR_{203}	17.0	X	99.01357	357.99433	61.92375	11.24071	0.1383120	0.23295162	2.6159266	21	2 14.1	20.5
485585 2011 UU_{203}	17.9	X	19.34289	347.20673	78.03615	5.12633	0.1940252	0.21144224	2.7904541	21	—	—
485586 2011 UC_{204}	17.0	X	151.67609	149.81659	223.78659	8.43293	0.0842358	0.23620456	2.5918540	21	2 4.3	20.9
485587 2011 UQ_{205}	17.3	X	127.86635	209.07493	162.63902	3.12513	0.0753841	0.23320065	2.6140639	21	1 6.5	20.7
485588 2011 UC_{206}	17.0	X	100.44913	198.95367	181.16693	14.76297	0.1949615	0.22731166	2.6590198	21	—	—
485589 2011 UO_{237}	16.9	X	68.56143	13.91650	40.71730	12.25880	0.0967432	0.22470896	2.6795125	21	—	—
485590 2011 UK_{242}	17.4	X	74.14572	14.21952	49.00342	6.04410	0.0429856	0.22729368	2.6591600	21	—	—
485591 2011 UM_{242}	17.0	X	322.61494	118.17223	43.05438	5.63840	0.0620984	0.22149946	2.7053343	21	—	—
485592 2011 UC_{243}	17.5	X	153.10303	283.18586	53.21401	2.95194	0.0934139	0.22797171	2.6538849	21	—	—
485593 2011 UX_{245}	17.0	X	38.20239	58.39947	59.41240	11.37403	0.0759005	0.23293860	2.6160241	21	1 18.5	20.2
485594 2011 UD_{247}	17.7	X	25.90018	199.89497	218.09150	3.43067	0.1938261	0.21191796	2.7862764	21	—	—
485595 2011 UJ_{252}	17.3	X	110.89311	169.48054	213.85878	6.32373	0.1255272	0.22725112	2.6594920	21	1 7.3	20.8
485596 2011 UL_{255}	17.4	X	89.39944	287.18839	86.35514	9.11819	0.3114702	0.22528201	2.6749667	21	—	—
485597 2011 UZ_{258}	17.5	X	78.69238	81.74771	26.30129	6.44247	0.1096960	0.23985423	2.5654948	21	3 12.4	20.5
485598 2011 UB_{260}	17.2	X	194.93068	300.91834	37.96988	11.32541	0.1418210	0.24347154	2.5400206	21	2 17.9	21.4
485599 2011 UC_{263}	17.4	X	112.71916	169.24244	241.12669	9.92122	0.0192705	0.23338467	2.6126897	21	1 25.1	21.1
485600 2011 UN_{266}	17.8	X	88.37949	258.25528	115.39058	8.50270	0.2530560	0.22455296	2.6807534	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
485601 2011 UH_{268}	17.1	X	343.69756	159.34249	158.53656	4.94491	0.1934963	0.28288024	2.2982696	21	7 23.8	18.7
485602 2011 UQ_{271}	17.1	X	50.94279	216.06194	316.57974	9.15600	0.0790132	0.26078659	2.4263077	21	4 13.1	20.0
485603 2011 UC_{275}	17.5	X	58.21814	194.15174	242.71359	5.68112	0.1066607	0.22822198	2.6519444	21	—	—
485604 2011 UM_{276}	17.0	X	93.24488	357.17558	25.39024	12.80114	0.1934003	0.22422302	2.6833825	21	—	—
485605 2011 UJ_{284}	17.3	X	24.67554	228.21292	255.32300	5.14248	0.1104384	0.22598655	2.6694041	21	1 2.8	20.3
485606 2011 UB_{291}	17.4	X	312.39708	211.95945	106.71003	6.46429	0.2219511	0.27872059	2.3210795	21	5 14.0	20.0
485607 2011 UQ_{295}	16.9	X	119.74911	121.70343	297.37314	6.95940	0.1359604	0.24096390	2.5576124	21	3 2.6	20.4
485608 2011 UK_{305}	16.6	X	51.19438	274.79415	128.32793	14.60992	0.1220280	0.21857691	2.7293958	21	—	—
485609 2011 UA_{307}	17.5	X	127.33752	280.05455	83.50948	4.43589	0.2367160	0.23303677	2.6152894	21	1 18.9	21.1
485610 2011 UV_{312}	17.9	X	18.69056	249.99630	193.74711	2.99128	0.1692503	0.21727943	2.7402507	21	—	—
485611 2011 UX_{315}	17.7	X	148.80183	51.22835	329.29218	1.95346	0.1462687	0.24018930	2.5631083	21	2 19.2	21.4
485612 2011 UH_{316}	17.0	X	75.23661	164.05742	246.89742	4.62162	0.0421258	0.22480153	2.6787769	21	—	—
485613 2011 UU_{319}	17.4	X	107.19464	312.23502	52.05892	4.51243	0.1804046	0.22440212	2.6819545	21	—	—
485614 2011 UZ_{321}	17.0	X	94.28058	182.86214	208.79683	19.43905	0.2228273	0.22775949	2.6555331	21	1 6.3	20.5
485615 2011 UR_{322}	16.5	X	112.04110	141.37383	257.72452	12.43617	0.2729168	0.23410234	2.6073472	21	2 13.3	20.4
485616 2011 UW_{322}	17.0	X	111.93853	291.84744	77.93275	13.79655	0.2806201	0.23071014	2.6328428	21	1 15.9	20.6
485617 2011 UN_{330}	17.3	X	40.76999	309.82369	96.93093	9.00240	0.2219344	0.21479361	2.7613523	21	—	—
485618 2011 UE_{335}	16.6	X	138.95381	73.95104	291.12181	13.60381	0.1220258	0.23844644	2.5755827	21	1 16.8	20.0
485619 2011 UR_{336}	17.2	X	61.76574	58.34603	351.60974	14.83340	0.1997714	0.22783796	2.6549234	21	—	—
485620 2011 UE_{338}	16.8	X	82.94998	318.43410	63.32644	13.63772	0.2852125	0.22757210	2.6569907	21	—	—
485621 2011 UW_{338}	17.1	X	37.04484	263.03159	197.27357	17.06941	0.2462914	0.22709050	2.6607459	21	—	—
485622 2011 UQ_{360}	17.7	X	47.30101	45.96024	55.08787	4.18741	0.2077146	0.22903157	2.6456912	21	1 14.2	20.0
485623 2011 UF_{362}	16.4	X	355.43376	292.67608	69.12338	10.43795	0.1368076	0.18896379	3.0075786	21	10 19.2	20.0
485624 2011 UJ_{362}	17.4	X	65.12470	30.38538	62.40780	14.71370	0.2215597	0.22865631	2.6485850	21	2 18.9	20.4
485625 2011 UC_{366}	17.4	X	63.67512	11.40846	49.12847	4.63297	0.0962316	0.22842696	2.6503576	21	—	—
485626 2011 UY_{366}	17.6	X	114.29326	297.54787	73.62659	4.34377	0.1202956	0.23096654	2.6308939	21	—	—
485627 2011 UM_{374}	17.1	X	139.59080	92.59220	293.62724	13.97560	0.1480132	0.24211635	2.5494900	21	2 12.0	20.9
485628 2011 UQ_{375}	17.5	X	57.38149	196.28863	269.41154	7.45937	0.1170309	0.23579812	2.5948315	21	1 30.1	20.4
485629 2011 UW_{380}	17.8	X	113.69002	129.25894	249.44882	2.77182	0.1208418	0.22984772	2.6394246	21	1 4.6	21.2
485630 2011 UP_{383}	16.8	X	34.29015	75.82509	26.64345	13.94774	0.1433342	0.22504709	2.6768279	21	—	—
485631 2011 UR_{383}	16.6	X	90.01677	68.55323	30.35464	15.36019	0.0127179	0.24259986	2.5461013	21	3 7.9	20.2
485632 2011 UY_{389}	17.0	X	107.67133	158.70012	257.96859	13.65138	0.0905123	0.23683071	2.5872836	21	2 3.1	20.6
485633 2011 UH_{391}	17.1	X	56.80112	238.74032	170.38017	12.61220	0.1551925	0.22026018	2.7154724	21	—	—
485634 2011 UA_{398}	17.8	X	55.07635	152.98043	264.39762	4.23523	0.1888997	0.22239464	2.6980698	21	—	—
485635 2011 UP_{404}	16.5	X	79.56635	111.64154	195.50531	18.88029	0.3497213	0.21328461	2.7743614	21	12 23.2	21.7
485636 2011 UG_{405}	16.7	X	168.35153	69.79437	299.84803	13.52254	0.1255437	0.24537123	2.5268936	21	2 18.9	20.6
485637 2011 VY_{2}	17.0	X	80.97967	138.39706	281.44876	10.43632	0.2144081	0.23112534	2.6296887	21	1 22.2	19.8
485638 2011 VW_{8}	17.3	X	64.89292	289.81672	163.42119	12.83838	0.1050015	0.23537589	2.5979337	21	1 25.3	20.5
485639 2011 VN_{11}	16.7	X	201.53177	250.34691	61.87341	15.55220	0.0764148	0.23255619	2.6188912	21	1 19.2	20.8
485640 2011 VD_{23}	16.1	X	58.42329	334.32951	99.26818	15.42054	0.0719619	0.22870186	2.6482334	21	—	—
485641 2011 WD_{5}	16.6	X	136.83817	105.27540	289.43604	12.58444	0.1683116	0.24099666	2.5573806	21	2 21.2	20.5
485642 2011 WN_{14}	16.3	X	121.16206	325.94000	70.77817	15.56818	0.1246714	0.23499898	2.6007108	21	2 11.5	20.1
485643 2011 WT_{14}	16.8	X	64.03913	314.09090	93.10542	13.80042	0.1498158	0.22411312	2.6842597	21	—	—
485644 2011 WE_{27}	16.5	X	172.01088	241.58057	86.94287	13.07795	0.1807252	0.23096788	2.6308838	21	1 14.8	20.8
485645 2011 WA_{29}	16.5	X	180.31581	140.95382	221.59960	14.56271	0.1471774	0.24295893	2.5435921	21	2 22.7	20.8
485646 2011 WO_{29}	17.2	X	106.20547	27.40821	32.84432	12.73554	0.1696891	0.23427797	2.6060440	21	3 2.5	20.8
485647 2011 WD_{30}	17.3	X	46.13878	221.58070	190.93868	9.97260	0.3067482	0.21612547	2.7499962	21	—	—
485648 2011 WF_{34}	18.0	X	85.62665	135.48120	266.17283	0.30297	0.1011201	0.22577513	2.6710703	21	—	—
485649 2011 WP_{38}	17.0	X	74.67664	220.43503	247.34363	11.13965	0.0466902	0.23737112	2.5833552	21	2 18.2	20.5
485650 2011 WM_{39}	17.5	X	130.24422	54.03112	296.41759	3.07541	0.2281218	0.23179767	2.6246013	21	1 4.7	21.2
485651 2011 WC_{40}	17.5	X	56.74218	34.63558	154.15198	12.01961	0.0808399	0.26118998	2.4238089	21	5 25.7	20.5
485652 2011 WO_{41}	16.5	X	285.26703	125.22232	112.16038	20.05363	0.7314387	0.18835292	3.0140779	21	—	—
485653 2011 WU_{43}	16.7	X	326.34547	286.14677	127.30315	2.95305	0.1910753	0.19253711	2.9702505	21	10 31.9	19.8
485654 2011 WG_{49}	17.3	X	37.10791	349.50533	88.68173	2.52660	0.2089142	0.21839597	2.7309032	21	—	—
485655 2011 WV_{49}	16.4	X	270.93801	215.96824	231.31967	7.91677	0.2637418	0.18138225	3.0908139	21	8 28.5	21.0
485656 2011 WR_{53}	15.5	X	288.15294	169.37221	254.73163	10.26761	0.0444002	0.18372836	3.0644456	21	9 21.3	20.0
485657 2011 WN_{58}	18.0	X	95.52752	225.05906	185.27457	3.54979	0.1417574	0.22935610	2.6431949	21	1 22.9	21.2
485658 2011 WQ_{62}	17.5	X	111.93545	52.97809	334.42543	5.26407	0.1083073	0.23081564	2.6320404	21	1 12.5	20.9
485659 2011 WC_{63}	17.0	X	157.29841	300.10155	66.15573	10.58812	0.0420022	0.23287432	2.6165055	21	2 3.9	20.8
485660 2011 WC_{65}	16.1	X	312.97718	0.36711	71.79180	12.85482	0.1974473	0.19163169	2.9795990	21	11 2.1	19.4
485661 2011 WW_{72}	17.5	X	29.37658	134.25154	286.37694	5.15774	0.1033115	0.21211772	2.7845269	21	—	—
485662 2011 WK_{85}	17.1	X	223.36654	182.78702	147.65711	1.99120	0.1738323	0.24638875	2.5199319	21	2 27.9	21.1
485663 2011 WF_{87}	17.3	X	77.16713	0.54028	78.88600	4.55756	0.0300952	0.23151855	2.6267104	21	1 21.5	20.6
485664 2011 WH_{87}	18.0	X	8.94424	231.00982	228.45981	3.40051	0.1729939	0.21525055	2.7574429	21	—	—
485665 2011 WK_{88}	17.0	X	123.20736	147.39559	253.29076	9.90014	0.1260715	0.23351547	2.6117140	21	2 9.7	20.8
485666 2011 WN_{88}	15.8	X	265.63393	27.49271	74.93182	20.72850	0.0942091	0.18471341	3.0535411	21	10 19.3	20.4
485667 2011 WR_{89}	16.6	X	174.55785	306.17579	66.03702	8.89771	0.1944824	0.24199461	2.5503449	21	3 13.9	20.9
485668 2011 WU_{94}	17.6	X	66.03866	14.70629	103.09725	5.39967	0.0534836	0.23750222	2.5824045	21	2 27.7	20.7
485669 2011 WZ_{96}	17.8	X	69.06524	141.47633	257.65662	3.68548	0.1193141	0.22005044	2.7171976	21	—	—
485670 2011 WL_{105}	17.0	X	338.22499	334.64819	26.87175	1.83328	0.2759630	0.18724790	3.0259244	21	9 6.9	19.4
485671 2011 WN_{105}	16.1	X	0.17215	289.32362	61.30144	9.64687	0.1203258	0.18662270	3.0326787	21	10 10.9	19.8
485672 2011 WS_{105}	16.8	X	60.84105	198.47178	258.07385	16.54964	0.1419227	0.22871704	2.6481162	21	1 23.9	20.0
485673 2011 WG_{108}	16.8	X	312.09468	92.27498	80.05874	8.54770	0.1645707	0.21507615	2.7589334	21	—	—
485674 2011 WF_{115}	15.6	X	6.41495	45.61271	76.55021	34.47142	0.1903683	0.21582336	2.7525619	21	—	—
485675 2011 WG_{115}	17.1	X	87.32584	350.18829	90.76482	15.17859	0.2172834	0.23446961	2.6046238	21	3 12.1	20.5
485676 2011 WL_{115}	16.9	X	145.93796	129.29147	273.32286	11.15132	0.1802885	0.24169885	2.5524250	21	3 12.9	21.1
485677 2011 WU_{115}	17.0	X	69.23831	227.63777	197.84074	7.31445	0.1781317	0.22926955	2.6438600	21	1 4.4	19.8
485678 2011 WK_{118}	16.6	X	110.33643	5.94719	60.61645	19.49471	0.2031459	0.23593232	2.5938474	21	3 25.9	20.6
485679 2011 WV_{118}	17.3	X	79.47521	103.40244	264.66098	7.15029	0.2734958	0.21689760	2.7434658	21	—	—
485680 2011 WN_{121}	17.5	X	50.34600	34.67732	45.97514	5.12829	0.0403844	0.22585077	2.6704738	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
485681 2011 WY_{122}	17.4	X	176.24986	249.52960	87.39996	1.97742	0.0970804	0.23378091	2.6097367	21	1 22.0	21.2
485682 2011 WR_{132}	16.6	X	357.37699	38.40004	70.59528	10.04291	0.0768969	0.21607040	2.7504634	21	—	—
485683 2011 WP_{133}	16.7	X	77.50549	285.11073	140.62426	17.18969	0.1893703	0.22845597	2.6501332	21	1 22.3	19.6
485684 2011 WS_{139}	17.5	X	82.00233	228.27750	204.69626	4.90030	0.1506146	0.23005537	2.6378360	21	2 1.6	20.6
485685 2011 WD_{142}	17.3	X	29.19231	81.59031	58.04183	8.12700	0.1724552	0.23054995	2.6340622	21	2 1.9	19.9
485686 2011 WK_{145}	17.2	X	0.69036	193.12088	268.48426	8.22825	0.2620881	0.21042579	2.7994330	21	—	—
485687 2011 WV_{149}	17.2	X	102.50660	45.55371	1.51932	10.10316	0.1066331	0.23237871	2.6202244	21	1 26.9	20.6
485688 2011 WH_{150}	16.3	X	30.27941	257.56033	105.45383	12.52487	0.1258116	0.20041523	2.8918931	21	12 12.1	20.1
485689 2011 WL_{154}	17.5	X	64.27436	290.21032	155.62594	10.01183	0.1602821	0.22754594	2.6571944	21	1 22.2	20.4
485690 2011 XS_{1}	17.1	X	185.52365	135.72971	210.10119	4.93072	0.2134614	0.23892131	2.5721687	21	2 14.3	21.6
485691 2011 XE_{4}	16.2	X	112.05008	171.10597	261.60249	30.18910	0.1354563	0.23583535	2.5945584	21	2 24.6	20.5
485692 2011 YR	17.4	X	111.03221	253.55022	123.87750	12.63271	0.2104829	0.23141604	2.6274860	21	1 12.7	20.8
485693 2011 YS	17.1	X	51.32393	312.98232	138.22942	11.68068	0.2138138	0.22839004	2.6506432	21	1 8.2	19.4
485694 2011 YS_{8}	17.3	X	89.48729	293.72960	97.06316	4.83454	0.1093137	0.22207717	2.7006405	21	—	—
485695 2011 YL_{10}	16.9	X	83.08938	92.67669	294.38653	7.59048	0.1646091	0.21520957	2.7577930	21	—	—
485696 2011 YR_{11}	16.9	X	98.93205	291.82933	102.17199	6.23016	0.1253277	0.21987806	2.7186176	21	1 7.4	20.1
485697 2011 YH_{16}	16.8	X	100.41949	306.91850	56.24963	7.42413	0.0790569	0.21732605	2.7398589	21	—	—
485698 2011 YS_{18}	17.1	X	28.89216	176.01583	292.48251	7.45655	0.1503048	0.21701409	2.7424839	21	—	—
485699 2011 YL_{25}	15.8	X	228.94355	225.69720	298.00969	13.64824	0.1114772	0.18174883	3.0866565	21	11 1.3	20.7
485700 2011 YD_{33}	17.0	X	348.84875	257.66674	254.09368	8.35284	0.1875003	0.21283496	2.7782676	21	—	—
485701 2011 YB_{37}	16.5	X	341.90116	186.92471	311.73984	8.01479	0.0727135	0.20715821	2.8287937	21	—	—
485702 2011 YH_{39}	17.7	X	280.49241	320.30900	109.51090	24.83544	0.0926352	0.38209250	1.8808625	21	11 1.9	20.0
485703 2011 YF_{46}	16.7	X	330.11775	242.00281	311.63907	14.68782	0.1173913	0.21750149	2.7383853	21	1 15.2	20.4
485704 2011 YR_{47}	16.4	X	247.74474	336.30427	267.89317	11.09337	0.1317433	0.22271614	2.6954726	21	—	—
485705 2011 YY_{67}	17.3	X	56.55470	105.96331	317.95687	6.63506	0.2207509	0.21343499	2.7730581	21	—	—
485706 2011 YZ_{71}	15.9	X	308.19194	288.57565	126.01862	17.64521	0.2227010	0.17937403	3.1138403	21	9 26.5	19.7
485707 2012 AB	16.9	X	26.54752	167.88728	287.95806	12.79646	0.1587922	0.21925807	2.7237401	21	—	—
485708 2012 AT_{1}	16.1	X	215.50017	54.01363	110.36299	17.53956	0.1902968	0.17699812	3.1416439	21	10 24.4	21.5
485709 2012 AH_{4}	16.6	X	48.65017	315.76568	108.41915	10.66152	0.0406843	0.20951089	2.8075768	21	—	—
485710 2012 AO_{4}	15.9	X	149.43300	101.21566	106.64737	18.07572	0.1001969	0.17255291	3.1953703	21	10 18.6	21.2
485711 2012 AZ_{6}	18.8	X	52.35668	233.44219	118.18664	24.76944	0.0581960	0.39639031	1.8353576	21	—	—
485712 2012 AO_{7}	18.9	X	235.99690	294.95590	284.64391	8.57414	0.2606866	0.40484684	1.8097096	21	—	—
485713 2012 AE_{17}	16.3	X	209.32027	278.02540	289.38417	8.82857	0.1968191	0.17827607	3.1266121	21	11 28.4	21.4
485714 2012 AK_{17}	18.6	X	52.18204	242.17015	130.58447	20.27459	0.0724964	0.40369257	1.8131576	21	—	—
485715 2012 AV_{17}	16.2	X	332.48155	244.83449	312.14350	13.61850	0.0753714	0.21716016	2.7412540	21	1 27.6	19.6
485716 2012 AC_{23}	17.2	X	113.38561	285.48845	80.54585	12.05217	0.1436088	0.22370198	2.6875476	21	—	—
485717 2012 BH_{1}	18.1	X	7.34829	317.68743	130.94606	33.66087	0.1587577	0.41290730	1.7860804	21	—	—
485718 2012 BV_{2}	16.5	X	277.47038	30.06378	115.42831	10.12732	0.2101685	0.18969110	2.9998860	21	12 2.9	20.3
485719 2012 BV_{4}	16.4	X	62.25798	141.45213	316.32102	11.99013	0.0744923	0.21804867	2.7338022	21	1 31.1	19.7
485720 2012 BY_{6}	16.4	X	276.29498	300.48871	303.14332	7.61195	0.1504491	0.21558374	2.7546011	21	1 9.4	20.5
485721 2012 BN_{9}	16.2	X	247.57263	244.87793	304.93040	9.45008	0.1628349	0.18596019	3.0398774	21	12 22.8	20.5
485722 2012 BS_{14}	16.6	X	356.03964	198.87844	281.99678	14.02302	0.1549416	0.20588592	2.8404356	21	—	—
485723 2012 BD_{15}	17.3	X	59.18895	112.83722	309.97717	14.62857	0.2627388	0.21232925	2.7826772	21	—	—
485724 2012 BA_{25}	17.2	X	359.86442	355.37218	138.05428	9.42271	0.1437904	0.21110448	2.7934297	21	—	—
485725 2012 BC_{28}	17.0	X	352.95955	120.82275	61.22940	6.02243	0.0972053	0.22000776	2.7175490	21	2 4.6	20.4
485726 2012 BC_{35}	16.1	X	285.71964	276.27610	311.93513	16.09153	0.1088231	0.21323807	2.7747651	21	1 7.1	20.2
485727 2012 BX_{52}	16.1	X	357.03432	256.46347	140.50675	9.36606	0.1386540	0.18177369	3.0863750	21	12 3.0	19.9
485728 2012 BY_{55}	16.4	X	265.41084	69.05908	120.57379	7.56955	0.1487833	0.19043458	2.9920730	21	—	—
485729 2012 BP_{57}	16.9	X	53.22499	356.17255	118.68953	16.34627	0.0932664	0.22388653	2.6860705	21	2 9.8	20.0
485730 2012 BV_{57}	16.9	X	128.87803	251.45217	123.40750	13.42941	0.1842620	0.22328075	2.6909267	21	1 29.2	20.6
485731 2012 BC_{58}	15.9	X	268.54687	41.60191	91.72985	28.26742	0.1574522	0.17730907	3.1379697	21	11 19.2	20.5
485732 2012 BF_{59}	16.5	X	231.91817	86.98119	110.76667	15.02969	0.0551431	0.19188177	2.9770097	21	12 29.5	20.8
485733 2012 BH_{69}	16.7	X	74.15823	241.76319	118.49302	9.40303	0.1095369	0.19553393	2.9398238	21	—	—
485734 2012 BG_{73}	16.0	X	277.92810	320.02909	134.67701	15.99696	0.0564265	0.17814420	3.1281549	21	10 25.3	20.6
485735 2012 BQ_{75}	17.1	X	311.05392	266.08864	288.30237	7.31620	0.0879702	0.21261923	2.7801465	21	—	—
485736 2012 BY_{75}	17.7	X	347.90249	15.46187	100.89688	3.27398	0.1922633	0.20477129	2.8507338	21	—	—
485737 2012 BL_{78}	17.4	X	328.28149	31.60291	136.44263	10.20395	0.0586117	0.21126426	2.7920211	21	—	—
485738 2012 BZ_{79}	17.1	X	41.41569	340.31458	117.44084	13.28904	0.1568507	0.21471669	2.7620117	21	—	—
485739 2012 BA_{86}	18.3	X	318.46751	208.05002	155.35564	26.28226	0.1220455	0.37216664	1.9141579	21	8 31.1	19.1
485740 2012 BU_{86}	17.2	X	2.07917	96.44742	45.50028	13.32714	0.2259048	0.21164268	2.7886920	21	—	—
485741 2012 BS_{88}	16.1	X	245.85987	275.07444	333.04796	12.19711	0.1793408	0.20377734	2.8599962	21	—	—
485742 2012 BV_{89}	17.0	X	24.76900	339.54057	128.95149	11.61647	0.2087292	0.21155971	2.7894210	21	—	—
485743 2012 BP_{93}	16.4	X	40.87856	260.20661	115.00652	11.26449	0.1232910	0.19156384	2.9803026	21	—	—
485744 2012 BW_{95}	16.9	X	253.58049	33.76321	134.69510	10.84516	0.0481270	0.18837893	3.0138005	21	12 21.0	21.2
485745 2012 BM_{98}	17.2	X	348.71261	346.00710	121.02492	5.79264	0.2320546	0.20246699	2.8723227	21	—	—
485746 2012 BV_{99}	16.4	X	335.10260	264.54216	126.57116	16.62234	0.2609360	0.18115754	3.0933693	21	10 20.9	19.6
485747 2012 BT_{103}	15.7	X	241.40400	181.01879	330.26556	19.20414	0.1027782	0.17493592	3.1662853	21	10 26.9	20.7
485748 2012 BO_{104}	15.6	X	255.27802	342.46126	142.11258	19.38219	0.1765227	0.17555798	3.1588015	21	10 16.4	20.5
485749 2012 BH_{105}	16.3	X	108.20644	218.04108	137.43621	10.97245	0.1131154	0.20533811	2.8454853	21	—	—
485750 2012 BM_{105}	16.3	X	209.38432	53.87700	136.20466	28.21660	0.1589915	0.17977607	3.1091962	21	11 21.3	21.7
485751 2012 BM_{109}	16.5	X	25.04852	58.15032	323.96988	9.57268	0.0774321	0.18634697	3.0356695	21	12 17.9	20.7
485752 2012 BV_{121}	16.4	X	234.94271	200.12099	332.01223	8.51080	0.1190483	0.18126973	3.0920928	21	11 19.4	21.1
485753 2012 BF_{124}	17.9	X	313.27262	301.76429	123.33977	24.16593	0.0676247	0.38227729	1.8802563	21	12 19.8	19.8
485754 2012 BD_{126}	16.2	X	240.17023	12.39827	138.06973	15.81310	0.1291602	0.17584437	3.1553708	21	11 5.4	21.1
485755 2012 BB_{130}	16.9	X	334.53794	198.08347	346.36729	9.08386	0.1111472	0.21325598	2.7746098	21	1 11.7	20.6
485756 2012 BS_{134}	19.1	X	205.50029	58.02315	151.14399	20.96306	0.0296750	0.39379728	1.8434056	21	—	—
485757 2012 BN_{136}	16.2	X	241.75018	313.84684	188.99868	16.64395	0.1952653	0.17565858	3.1575953	21	10 16.5	20.9
485758 2012 BV_{138}	16.8	X	323.83279	182.03006	329.82540	9.78730	0.1379932	0.19800946	2.9152698	21	—	—
485759 2012 BM_{152}	16.9	X	79.82382	277.88683	121.02462	10.07898	0.0997736	0.21102548	2.7941269	21	—	—
485760 2012 CO_{2}	17.7	X	344.02831	304.32458	117.90787	28.33535	0.0879280	0.39261353	1.8471091	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
485761 2012 CY_5	17.1	X	11.02293	23.64272	112.17548	12.72887	0.1117391	0.21168337	2.7883346	21	1 1.5	20.4
485762 2012 CV_{13}	16.9	X	321.42602	297.11546	138.40118	4.24036	0.2685847	0.18599134	3.0395379	21	11 14.3	19.5
485763 2012 CA_{14}	16.3	X	40.34512	43.83582	328.36098	16.56589	0.1165012	0.18531740	3.0469027	21	—	—
485764 2012 CM_{14}	16.1	X	52.79395	15.59848	330.61093	8.46817	0.0787887	0.17883427	3.1201026	21	12 7.2	20.6
485765 2012 CW_{14}	15.6	X	142.53298	318.67627	323.45043	16.27480	0.2047220	0.18062675	3.0994264	21	—	—
485766 2012 CA_{16}	17.1	X	47.58041	169.04060	294.77253	3.84230	0.0849203	0.21391184	2.7689354	21	1 17.7	20.2
485767 2012 CX_{18}	16.3	X	353.93388	189.42188	316.64524	8.80635	0.1492412	0.20951064	2.8075791	21	—	—
485768 2012 CP_{24}	17.0	X	359.24664	294.25482	167.56196	12.96019	0.0643562	0.19819869	2.9134140	21	—	—
485769 2012 CL_{27}	17.6	X	334.21893	47.73002	98.11318	4.57101	0.1138136	0.20478688	2.8505892	21	—	—
485770 2012 CO_{29}	17.0	X	93.51457	227.46609	146.09144	7.00109	0.0766254	0.20261630	2.8709114	21	—	—
485771 2012 CA_{38}	16.3	X	84.31084	86.89890	357.53237	14.33063	0.0342003	0.21903092	2.7256229	21	2 13.7	20.0
485772 2012 CJ_{38}	16.5	X	202.87401	122.30295	100.81802	7.32941	0.1456791	0.18304285	3.0720919	21	12 16.4	21.3
485773 2012 CA_{40}	16.6	X	217.05535	323.63790	273.97795	2.67179	0.1664909	0.18973031	2.9994727	21	—	—
485774 2012 CF_{40}	16.4	X	129.50497	309.46309	321.48366	8.10129	0.0491456	0.17822608	3.1271969	21	11 30.3	21.2
485775 2012 CK_{40}	16.4	X	227.20868	201.45965	329.41771	9.39375	0.0632392	0.17879288	3.1205842	21	11 15.1	21.1
485776 2012 CR_{40}	15.9	X	180.74563	125.34643	137.64330	12.13743	0.0595604	0.18884708	3.0088177	21	—	—
485777 2012 CV_{44}	16.0	X	188.69029	83.62876	154.03823	22.27255	0.1045156	0.18046438	3.1012853	21	12 23.9	21.1
485778 2012 CJ_{45}	15.5	X	351.50980	54.85334	346.17531	16.04905	0.1063186	0.17697438	3.1419247	21	11 18.4	19.8
485779 2012 CN_{45}	15.9	X	133.35222	292.94101	335.97310	9.70720	0.1055915	0.17438255	3.1729802	21	12 3.4	21.0
485780 2012 CL_{52}	15.8	X	351.44671	258.99960	149.62072	17.29082	0.1006124	0.18221423	3.0813985	21	12 7.5	20.0
485781 2012 DR_4	18.1	X	329.11153	285.33546	142.73442	23.76975	0.1369664	0.38903421	1.8584214	21	—	—
485782 2012 DS_4	18.5	X	11.34657	43.75561	357.06755	21.64958	0.0983910	0.39177681	1.8497381	21	—	—
485783 2012 DE_6	15.4	X	289.24681	99.05160	8.88784	26.17153	0.1698290	0.17528368	3.1620961	21	10 25.7	19.7
485784 2012 DZ_{10}	16.2	X	291.72627	3.10992	124.58747	14.51355	0.1719140	0.18489064	3.0515894	21	12 7.7	20.1
485785 2012 DH_{11}	15.6	X	332.71217	71.68676	309.12793	20.68315	0.1663097	0.17536094	3.1611673	21	9 13.9	19.6
485786 2012 DC_{12}	16.4	X	270.44399	29.00121	139.55184	14.48570	0.0730729	0.18589243	3.0406160	21	—	—
485787 2012 DB_{14}	16.1	X	60.78979	178.70056	150.70432	16.07647	0.0573188	0.17332327	3.1858951	21	11 27.4	20.9
485788 2012 DM_{16}	16.1	X	9.27497	305.26616	150.76056	11.46515	0.0489013	0.18961644	3.0006734	21	—	—
485789 2012 DR_{17}	16.5	X	254.87310	32.46805	162.45457	16.01549	0.2295746	0.18386042	3.0629781	21	12 27.7	21.0
485790 2012 DP_{19}	16.3	X	212.53723	60.20356	173.18759	18.86816	0.1248220	0.18253457	3.0777923	21	—	—
485791 2012 DF_{21}	16.2	X	251.67145	188.94733	354.87797	17.04965	0.0910848	0.18311907	3.0712393	21	12 31.7	20.8
485792 2012 DK_{22}	15.9	X	260.53878	121.19665	124.51619	16.80407	0.1877696	0.19807120	2.9146640	21	—	—
485793 2012 DP_{23}	16.3	X	205.63837	228.67201	357.29311	15.79681	0.1805392	0.17676361	3.1444219	21	12 17.5	21.6
485794 2012 DL_{24}	16.0	X	238.28959	177.36716	7.52489	26.89870	0.0762234	0.17688946	3.1429303	21	12 10.6	21.1
485795 2012 DQ_{24}	18.3	X	167.94995	234.91511	0.44082	20.51769	0.0688872	0.38180311	1.8818127	21	—	—
485796 2012 DO_{28}	16.3	X	257.15305	333.25228	164.45430	15.53804	0.2177518	0.17442225	3.1724987	21	10 26.3	21.1
485797 2012 DF_{29}	17.3	X	317.69937	24.16374	103.75800	3.82888	0.2312430	0.18962468	3.0005864	21	—	—
485798 2012 DN_{29}	15.7	X	178.55376	90.57757	171.63180	25.60601	0.2284089	0.17457692	3.1706246	21	—	—
485799 2012 DE_{33}	16.1	X	78.26694	348.23457	36.24527	10.78124	0.1092744	0.19275611	2.9680003	21	—	—
485800 2012 DL_{33}	15.9	X	137.20521	317.52946	357.01756	27.06573	0.1093323	0.18426799	3.0584598	21	—	—
485801 2012 DJ_{34}	16.1	X	288.67555	208.12511	330.49164	8.70723	0.0088617	0.19246190	2.9710243	21	—	—
485802 2012 DV_{34}	16.4	X	344.64485	54.61412	354.43590	15.33972	0.1722823	0.17830267	3.1263012	21	11 20.9	20.2
485803 2012 DE_{35}	16.1	X	202.89623	229.87304	3.49478	10.28468	0.1444490	0.18041022	3.1019059	21	12 28.3	21.1
485804 2012 DA_{37}	16.6	X	345.62115	282.97325	160.11797	19.33488	0.0997871	0.18561676	3.0436258	21	—	—
485805 2012 DD_{40}	16.4	X	346.99783	117.42385	313.87609	12.98584	0.2504870	0.18869494	3.0104347	21	—	—
485806 2012 DN_{40}	17.0	X	224.52450	12.88513	258.32372	1.07265	0.0682825	0.19686519	2.9265554	21	—	—
485807 2012 DE_{41}	16.7	X	241.50372	236.02457	332.24414	12.35689	0.0265033	0.19104178	2.9857296	21	—	—
485808 2012 DR_{42}	17.0	X	342.77446	200.34049	341.57656	7.65365	0.1202183	0.21124430	2.7921970	21	1 19.0	20.5
485809 2012 DE_{45}	16.3	X	262.54178	153.76891	87.29814	5.75007	0.0360755	0.19851408	2.9103274	21	1 5.4	20.6
485810 2012 DL_{45}	15.7	X	90.73399	162.80178	154.88473	27.95784	0.1215653	0.17887724	3.1196030	21	12 24.4	20.9
485811 2012 DQ_{46}	15.8	X	206.18170	117.25927	149.72212	11.99924	0.0525061	0.19011111	2.9954659	21	—	—
485812 2012 DA_{48}	15.8	X	39.21094	41.17680	327.40871	15.13223	0.0957472	0.18139950	3.0906180	21	12 22.3	20.2
485813 2012 DK_{48}	16.1	X	243.03667	236.17958	345.92819	16.19817	0.0929439	0.19076341	2.9886335	21	—	—
485814 2012 DV_{48}	15.7	X	180.33111	302.83643	328.16180	17.42065	0.1774545	0.18546519	3.0452838	21	—	—
485815 2012 DZ_{48}	16.3	X	232.39879	58.46363	172.21408	11.60723	0.1763924	0.18472858	3.0533739	21	—	—
485816 2012 DJ_{52}	16.0	X	182.35100	283.31139	323.35709	8.73549	0.0170967	0.18483457	3.0522065	21	—	—
485817 2012 DR_{52}	16.2	X	259.50486	303.32444	163.24773	14.45357	0.2368758	0.17261395	3.1946169	21	9 15.8	20.8
485818 2012 DU_{52}	16.5	X	286.58126	172.99408	3.83460	9.64978	0.0392272	0.18801281	3.0177117	21	—	—
485819 2012 DY_{55}	16.1	X	236.04065	230.12898	341.22359	11.04757	0.1495048	0.18375488	3.0641508	21	—	—
485820 2012 DF_{56}	15.9	X	206.18292	242.35477	336.38007	26.14910	0.1258672	0.17943989	3.1130784	21	12 16.2	21.2
485821 2012 DQ_{57}	16.2	X	205.81395	280.42443	328.24696	9.70798	0.0703407	0.18861945	3.0112379	21	—	—
485822 2012 DM_{60}	15.9	X	306.44271	292.30021	166.43352	16.20578	0.1047295	0.18152778	3.0891618	21	11 30.6	20.1
485823 2012 DF_{61}	20.6	X	264.09534	27.37333	15.38911	5.31194	0.4977206	0.80030097	1.1489483	21	5 22.9	21.4
485824 2012 DE_{63}	17.0	X	200.84930	284.76539	321.82946	9.56024	0.0606380	0.19197286	2.9760678	21	—	—
485825 2012 DB_{65}	16.3	X	37.73253	227.38077	153.20254	9.91002	0.0877481	0.18286368	3.0740983	21	—	—
485826 2012 DH_{66}	17.0	X	229.15414	242.86882	342.92088	7.31542	0.0753213	0.18945102	3.0024198	21	—	—
485827 2012 DB_{67}	16.8	X	271.62242	28.54337	159.79606	23.47508	0.1395203	0.19054955	2.9908692	21	—	—
485828 2012 DM_{67}	17.9	X	307.47285	280.84266	163.44723	21.49154	0.1044803	0.38204326	1.8810241	21	—	—
485829 2012 DQ_{68}	16.6	X	37.37650	261.52375	154.92520	13.08672	0.0865521	0.19762543	2.9190453	21	—	—
485830 2012 DJ_{71}	16.5	X	261.28308	216.14643	307.91252	10.54316	0.0387750	0.18385239	3.0630672	21	12 25.6	20.8
485831 2012 DW_{71}	16.6	X	279.18436	337.99973	284.63893	6.99638	0.1822250	0.21201284	2.7854451	21	1 30.5	20.9
485832 2012 DH_{72}	16.7	X	311.38422	354.23867	117.35134	11.42890	0.3048201	0.18834372	3.0141760	21	12 8.6	19.4
485833 2012 DY_{72}	18.4	X	237.07613	267.48101	160.17158	22.72776	0.1081939	0.36093701	1.9536575	21	7 22.8	21.1
485834 2012 DM_{74}	16.5	X	293.83879	164.05872	350.94610	10.48477	0.0808090	0.18526327	3.0474961	21	—	—
485835 2012 DS_{74}	16.7	X	300.53037	153.80545	333.90978	9.88303	0.1829696	0.18724940	3.0259083	21	12 19.5	20.3
485836 2012 DZ_{74}	16.4	X	156.34569	329.09227	334.00291	10.85742	0.0305084	0.19293897	2.9661247	21	—	—
485837 2012 DO_{75}	16.3	X	224.00626	101.77085	165.85779	12.41347	0.1482726	0.19800940	2.9152704	21	—	—
485838 2012 DY_{75}	16.4	X	244.17944	43.65707	129.59974	6.41865	0.1038985	0.18090968	3.0961941	21	12 6.5	20.8
485839 2012 DL_{76}	18.7	X	184.00039	93.49201	165.25066	23.16796	0.0645795	0.39549435	1.8381285	21	—	—
485840 2012 DO_{76}	16.1	X	244.61928	14.64342	164.36671	17.51830	0.1494502	0.17882819	3.1201733	21	12 8.7	20.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
485841 2012 DU_{79}	17.9	X	179.59244	147.40970	6.48045	19.72018	0.0740624	0.36506520	1.9389015	21	9 23.8	19.9
485842 2012 DZ_{79}	15.5	X	271.29078	11.99061	124.83457	28.94766	0.1399177	0.18034246	3.1026828	21	11 29.5	20.2
485843 2012 DF_{86}	17.9	X	335.56164	49.72119	12.47203	21.73445	0.0645740	0.38489600	1.8717181	21	—	—
485844 2012 DL_{92}	17.0	X	200.27829	216.90628	15.54255	0.65988	0.1391991	0.18064753	3.0991887	21	12 24.7	21.7
485845 2012 DM_{92}	17.1	X	223.74603	279.78817	301.94064	1.31601	0.1843655	0.18338722	3.0682448	21	12 30.9	21.9
485846 2012 DO_{94}	16.6	X	142.49515	324.30894	320.91514	15.06292	0.0749178	0.18518758	3.0483265	21	—	—
485847 2012 EY	16.7	X	87.55864	186.70583	168.64605	11.93271	0.0384554	0.18860441	3.0113980	21	—	—
485848 2012 EC_{2}	18.3	X	241.88285	276.67910	161.99539	22.54803	0.0967131	0.36600234	1.9355905	21	8 18.3	20.4
485849 2012 EQ_{6}	17.2	X	283.58434	119.58375	28.76855	1.25844	0.1171126	0.18400399	3.0613846	21	12 25.3	21.0
485850 2012 EB_{9}	18.2	X	239.21742	178.06810	359.60655	20.41161	0.0768716	0.38866122	1.8596101	21	—	—
485851 2012 EN_{9}	17.9	X	264.73560	251.60587	190.30567	21.63231	0.1338861	0.37194016	1.9149349	21	9 24.6	19.3
485852 2012 ED_{10}	18.0	X	351.45670	260.65903	161.25851	22.82131	0.0860198	0.38695760	1.8650642	21	—	—
485853 2012 EG_{10}	18.3	X	189.23758	321.18310	181.48399	22.37238	0.0720343	0.36780683	1.9292545	21	9 16.8	20.4
485854 2012 EM_{11}	16.9	X	267.69769	193.74095	13.00673	8.54427	0.0512708	0.19256327	2.9699815	21	—	—
485855 2012 ER_{11}	16.9	X	237.08015	164.40793	40.97980	2.41160	0.0706791	0.18317500	3.0706141	21	—	—
485856 2012 EO_{15}	15.1	X	199.42825	217.89826	7.08142	32.47356	0.1787029	0.17381779	3.1798496	21	12 1.9	20.9
485857 2012 FB	17.9	X	333.32406	37.91564	27.56718	21.50857	0.0904400	0.38469593	1.8723670	21	—	—
485858 2012 FO	16.2	X	287.42515	137.92180	335.87905	11.82815	0.0690264	0.17765137	3.1339376	21	11 18.7	20.7
485859 2012 FP	18.0	X	268.35105	113.11518	87.24256	3.32455	0.2716891	0.18826103	3.0150586	21	—	—
485860 2012 FE_{1}	17.9	X	311.88131	348.73599	115.18256	23.21305	0.1419002	0.39306694	1.8456884	21	—	—
485861 2012 FP_{6}	16.2	X	161.07473	342.46449	315.64432	12.88863	0.0494295	0.19267799	2.9688025	21	—	—
485862 2012 FV_{6}	17.1	X	295.11061	193.42780	311.26659	5.75754	0.1295934	0.18868207	3.0105716	21	—	—
485863 2012 FX_{6}	16.6	X	266.27954	198.23821	326.97497	8.39926	0.0691810	0.18522495	3.0479164	21	12 29.7	20.8
485864 2012 FU_{8}	16.8	X	333.00083	286.84061	181.02835	6.48391	0.0418513	0.18805633	3.0172461	21	—	—
485865 2012 FL_{10}	18.2	X	287.56957	71.52956	346.31415	18.72910	0.1312198	0.37055904	1.9196900	21	9 23.7	19.4
485866 2012 FN_{14}	16.4	X	233.00214	58.96476	145.81843	13.82217	0.1989878	0.17820136	3.1274860	21	12 19.2	21.3
485867 2012 FK_{17}	17.5	X	284.47390	145.52129	20.39809	4.28939	0.1097974	0.18739321	3.0243599	21	—	—
485868 2012 FP_{17}	16.8	X	206.69211	99.49233	119.85783	2.12889	0.0978166	0.17744426	3.1363757	21	12 19.0	21.5
485869 2012 FS_{25}	17.1	X	258.67490	338.10900	167.50356	3.77693	0.1007856	0.17393461	3.1784255	21	11 19.9	21.6
485870 2012 FJ_{26}	16.9	X	232.03931	181.23320	31.64441	1.08925	0.1388566	0.18091785	3.0961009	21	—	—
485871 2012 FB_{27}	16.3	X	156.70083	254.61331	13.40550	9.48268	0.0615823	0.17467242	3.1694689	21	12 26.5	21.2
485872 2012 FF_{27}	16.6	X	285.22943	315.17724	180.22123	14.36748	0.1836200	0.18013485	3.1050663	21	12 3.5	20.7
485873 2012 FK_{28}	16.7	X	218.97177	60.94279	158.45028	11.03762	0.0490784	0.17871063	3.1215416	21	—	—
485874 2012 FN_{28}	16.7	X	179.76906	136.81967	124.65612	5.87080	0.1574500	0.17540004	3.1606975	21	—	—
485875 2012 FV_{28}	16.4	X	348.11979	66.23093	11.36735	10.61739	0.0578360	0.18146360	3.0898901	21	—	—
485876 2012 FC_{31}	16.5	X	190.35872	230.18223	30.41584	14.10253	0.2801900	0.17548801	3.1596411	21	—	—
485877 2012 FJ_{31}	16.6	X	354.07543	186.11108	353.73587	13.41148	0.1337848	0.21435641	2.7651057	21	2 2.9	20.0
485878 2012 FK_{31}	16.7	X	245.60870	81.30249	109.72677	6.20780	0.1115797	0.17848539	3.1241672	21	12 26.9	21.1
485879 2012 FK_{33}	15.8	X	318.35869	108.18925	354.74862	26.54573	0.0619000	0.17714412	3.1399174	21	12 22.8	20.5
485880 2012 FB_{34}	16.5	X	307.15301	99.89319	19.78722	22.34613	0.1570074	0.18168927	3.0873310	21	12 18.6	20.6
485881 2012 FU_{34}	16.3	X	336.40867	274.94287	174.75646	18.84964	0.1472962	0.18173526	3.0868101	21	—	—
485882 2012 FK_{35}	18.2	X	16.94758	303.10121	18.40797	35.94430	0.5814386	0.56348130	1.4517206	21	—	—
485883 2012 FJ_{37}	16.0	X	128.18165	253.16484	52.81713	11.46339	0.1312237	0.17446823	3.1719413	21	—	—
485884 2012 FP_{40}	16.4	X	222.12228	256.99180	347.59332	11.71088	0.2276746	0.18367309	3.0650604	21	—	—
485885 2012 FW_{40}	16.9	X	249.63711	211.34948	355.04238	10.68809	0.1087034	0.18621792	3.0370718	21	—	—
485886 2012 FB_{41}	16.7	X	0.21686	259.05659	177.01334	9.52593	0.0935275	0.18565676	3.0431887	21	—	—
485887 2012 FC_{42}	16.5	X	312.14661	290.85527	183.57125	21.42854	0.1497115	0.18219213	3.0816476	21	12 23.4	20.6
485888 2012 FJ_{42}	16.2	X	256.07068	142.47704	43.77184	12.18832	0.1517205	0.17873985	3.1212014	21	12 28.2	20.7
485889 2012 FR_{43}	17.5	X	49.68715	256.25222	70.01980	23.83464	0.1284580	0.37058438	1.9196025	21	12 21.9	19.8
485890 2012 FS_{47}	16.5	X	122.58505	120.13764	153.31879	9.27777	0.0470706	0.16916990	3.2378295	21	11 27.5	21.4
485891 2012 FA_{48}	16.7	X	161.85439	111.53377	147.86377	5.12871	0.0965380	0.17473018	3.1687703	21	12 20.9	21.7
485892 2012 FH_{48}	17.2	X	276.36734	52.72544	85.13058	2.32523	0.1393029	0.17932576	3.1143990	21	11 28.3	21.3
485893 2012 FL_{49}	16.7	X	201.24526	93.55011	147.64218	5.57889	0.0811967	0.18043706	3.1015983	21	—	—
485894 2012 FE_{52}	16.2	X	212.01358	308.20444	270.16143	8.77665	0.1816110	0.17674130	3.1446865	21	12 15.2	21.1
485895 2012 FL_{52}	17.7	X	335.27607	44.08008	349.69791	18.79105	0.1049712	0.37171260	1.9157163	21	11 28.9	19.7
485896 2012 FS_{55}	16.5	X	293.82985	75.71353	42.09325	10.54434	0.0681075	0.17542608	3.1603847	21	12 4.1	20.7
485897 2012 FK_{59}	16.5	X	288.74610	352.46992	162.43525	13.56550	0.0334802	0.18610189	3.0383340	21	—	—
485898 2012 FR_{59}	16.7	X	278.62667	335.79886	158.06413	13.87298	0.1332756	0.17819102	3.1276070	21	11 29.7	21.1
485899 2012 FK_{67}	18.3	X	134.69111	276.86532	25.08091	22.38843	0.0705816	0.38563630	1.8693220	21	—	—
485900 2012 FD_{71}	17.9	X	290.96811	332.97053	145.92112	22.24788	0.0702380	0.38459539	1.8726933	21	—	—
485901 2012 FT_{71}	16.2	X	218.17763	106.64938	94.75469	16.04068	0.2626967	0.17153709	3.2079728	21	11 26.7	21.6
485902 2012 FZ_{71}	16.3	X	182.01961	155.57217	148.35378	17.93173	0.2535487	0.18262542	3.0767714	21	1 5.1	21.9
485903 2012 FB_{79}	16.0	X	125.45088	321.26537	332.49815	15.05015	0.0560247	0.18340281	3.0680709	21	12 26.8	20.8
485904 2012 FH_{82}	16.1	X	274.06881	49.89731	133.38733	10.02450	0.0836332	0.18660465	3.0328742	21	—	—
485905 2012 FS_{82}	16.4	X	229.28549	96.09275	136.21708	11.41284	0.1161317	0.18530565	3.0470315	21	—	—
485906 2012 FM_{83}	16.5	X	284.15878	101.39918	25.91833	22.85458	0.1896113	0.17566721	3.1574919	21	11 12.0	20.7
485907 2012 GM	18.1	X	199.39096	46.48097	160.92100	23.19956	0.0319673	0.38084602	1.8849642	21	—	—
485908 2012 GN	18.2	X	239.58073	7.50211	150.01976	21.62626	0.0633159	0.38139102	1.8831680	21	—	—
485909 2012 GE_{3}	16.3	X	228.91197	167.74018	32.64194	10.41969	0.0654351	0.17376877	3.1804475	21	12 23.5	21.0
485910 2012 GW_{5}	17.9	X	237.30265	6.16533	180.72356	21.02754	0.0663280	0.38346863	1.8763599	21	—	—
485911 2012 GA_{6}	18.2	X	246.96423	102.57852	15.36730	21.10043	0.0771662	0.37333752	1.9101536	21	10 28.5	20.1
485912 2012 GW_{9}	16.2	X	312.24829	307.89614	201.51077	10.15028	0.0554221	0.18674024	3.0314060	21	—	—
485913 2012 GX_{12}	15.7	X	105.33752	291.67349	24.94182	14.91688	0.0539498	0.17001943	3.2270350	21	12 27.9	20.7
485914 2012 GZ_{15}	16.8	X	262.27631	122.75088	78.45210	19.35307	0.2109478	0.18045982	3.1013376	21	—	—
485915 2012 GG_{19}	16.0	X	297.50341	276.21129	195.91613	24.96673	0.1845820	0.17433061	3.1736104	21	11 21.6	20.1
485916 2012 GN_{22}	16.2	X	195.62142	94.77710	147.03180	12.43010	0.0432691	0.17177431	3.2050187	21	—	—
485917 2012 GB_{23}	15.5	X	141.58252	134.57301	200.51972	26.60006	0.2243828	0.17095190	3.2152895	21	1 4.1	21.1
485918 2012 GA_{27}	18.0	X	138.87263	308.75861	222.33908	20.03087	0.0744213	0.35153913	1.9883230	21	8 14.9	21.0
485919 2012 GX_{31}	16.0	X	284.49858	115.14636	27.38120	26.87098	0.1990442	0.17645149	3.1481289	21	11 28.2	20.4
485920 2012 GM_{32}	17.3	X	292.59251	226.42391	15.64601	2.57800	0.1668616	0.20191731	2.8775332	21	1 24.9	21.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
485921 2012 GO_{32}	16.2	X	259.15854	164.17980	35.51641	12.10553	0.0851082	0.18340613	3.0680339	21	—	—
485922 2012 GH_{33}	16.3	X	286.08502	103.46321	33.47128	10.25206	0.1356334	0.17514342	3.1637841	21	12 8.9	20.5
485923 2012 GM_{33}	16.8	X	258.56396	259.21224	315.31108	1.28513	0.1596586	0.18735577	3.0247629	21	—	—
485924 2012 GM_{35}	16.2	X	241.56586	174.29869	22.11372	11.67101	0.1031553	0.17518099	3.1633316	21	12 29.4	20.9
485925 2012 GP_{35}	16.3	X	228.77190	325.83905	250.22854	3.56563	0.2209009	0.17567305	3.1574220	21	12 23.9	21.1
485926 2012 GV_{35}	17.0	X	221.11670	232.59517	15.20066	3.33129	0.1580345	0.17999437	3.1066817	21	—	—
485927 2012 GO_{36}	15.7	X	284.49582	298.57689	228.78324	13.75804	0.1966959	0.18235389	3.0798249	21	—	—
485928 2012 GV_{36}	16.0	X	201.33274	247.57425	19.79363	11.22580	0.0477440	0.18026193	3.1036069	21	—	—
485929 2012 HV	17.8	X	137.01389	270.82174	7.72174	21.00298	0.0262344	0.38150827	1.8827822	21	—	—
485930 2012 HG_{3}	16.3	X	235.07200	81.56224	147.16310	13.15287	0.0908968	0.17903132	3.1178128	21	—	—
485931 2012 HG_{4}	16.7	X	259.56723	341.18501	173.67772	15.73274	0.1317559	0.17326683	3.1865868	21	11 29.1	21.4
485932 2012 HE_{6}	16.5	X	225.53625	55.53994	147.49400	11.78918	0.1071662	0.17140813	3.2095817	21	12 18.6	21.4
485933 2012 HK_{7}	15.6	X	156.88563	218.62329	74.41630	24.24370	0.0242141	0.17375750	3.1805850	21	—	—
485934 2012 HG_{9}	16.5	X	231.75902	82.12191	119.25915	10.73384	0.1614371	0.17283074	3.1919449	21	12 17.1	21.3
485935 2012 HN_{9}	16.2	X	248.44457	87.23609	115.02214	11.24886	0.2045135	0.17760340	3.1345019	21	12 30.9	20.8
485936 2012 HR_{9}	16.3	X	248.42424	44.97873	151.52472	10.22675	0.1736504	0.17618035	3.1513580	21	12 27.9	20.9
485937 2012 HX_{15}	17.9	X	137.47257	225.40521	20.31114	20.81517	0.0540646	0.37261965	1.9126062	21	12 8.5	20.5
485938 2012 HR_{20}	19.6	X	70.51310	85.13049	140.28292	24.80930	0.0538591	0.56131796	1.4554482	21	8 23.8	19.3
485939 2012 HV_{24}	18.1	X	134.89044	112.87841	143.57777	24.09339	0.0675557	0.37420204	1.9072104	21	12 28.3	20.8
485940 2012 HF_{25}	18.1	X	345.89326	322.20258	78.30279	24.49165	0.0701871	0.37065867	1.9193460	21	12 29.4	19.8
485941 2012 HD_{33}	16.4	X	176.82723	116.02648	171.77672	14.74370	0.2001561	0.17391391	3.1786777	21	—	—
485942 2012 HH_{36}	16.5	X	282.05702	13.76784	147.86514	10.27328	0.0427267	0.17776771	3.1325701	21	—	—
485943 2012 HK_{37}	15.8	X	257.75973	331.98844	223.26656	17.40001	0.1192850	0.17980043	3.1089153	21	—	—
485944 2012 HR_{38}	16.4	X	245.94930	100.22795	127.95537	12.24587	0.1799468	0.18040486	3.1019674	21	—	—
485945 2012 HL_{44}	16.2	X	227.79247	349.94976	202.49618	10.36626	0.0995536	0.17052112	3.2207025	21	12 8.9	21.1
485946 2012 HE_{45}	16.7	X	202.91045	102.62759	158.43355	2.22248	0.1344586	0.17679085	3.1440989	21	—	—
485947 2012 HK_{45}	16.5	X	247.09160	122.91729	62.20678	5.63437	0.1340375	0.17294944	3.1904843	21	12 17.3	21.0
485948 2012 HK_{49}	16.6	X	239.25840	85.94697	149.97047	10.95420	0.0297559	0.18275158	3.0753552	21	—	—
485949 2012 HR_{50}	16.2	X	322.01014	71.14608	70.80327	16.66300	0.1905123	0.18470630	3.0536195	21	—	—
485950 2012 HT_{50}	16.2	X	231.90340	69.62534	196.10496	12.42743	0.2155746	0.18281790	3.0746115	21	—	—
485951 2012 HD_{51}	15.7	X	178.24937	202.46434	102.41434	13.02171	0.1834007	0.17792623	3.1307092	21	—	—
485952 2012 HK_{51}	16.4	X	233.93698	105.97346	128.09082	11.75218	0.0762971	0.17852886	3.1236600	21	—	—
485953 2012 HU_{51}	16.1	X	240.92223	166.58402	46.12822	17.53454	0.0845356	0.17555589	3.1588266	21	—	—
485954 2012 HW_{51}	18.5	X	227.25210	358.63013	185.90733	21.12425	0.0520711	0.38181192	1.8817838	21	—	—
485955 2012 HV_{54}	16.4	X	238.31729	156.36687	95.34207	9.84096	0.0682880	0.18445105	3.0564359	21	—	—
485956 2012 HY_{54}	16.7	X	299.52136	309.41987	206.45159	10.04420	0.1763492	0.18155920	3.0888054	21	—	—
485957 2012 HL_{55}	16.5	X	222.94921	16.27105	204.49412	11.23992	0.0620739	0.17878902	3.1206291	21	—	—
485958 2012 HA_{56}	16.3	X	333.82824	324.35449	232.95823	9.64384	0.0762438	0.20335983	2.8639093	21	1 28.6	20.2
485959 2012 HR_{56}	16.2	X	229.90661	173.17754	101.75817	14.67677	0.2815563	0.18335509	3.0686033	21	1 5.2	21.8
485960 2012 HN_{61}	16.2	X	266.38664	84.37760	129.55509	15.57734	0.0674278	0.18219665	3.0815966	21	—	—
485961 2012 HF_{62}	16.5	X	266.95126	17.53290	179.15560	11.82038	0.1541193	0.18421463	3.0590504	21	—	—
485962 2012 HX_{65}	16.6	X	249.02444	201.69761	347.99474	11.39541	0.1736393	0.17732099	3.1378291	21	12 20.8	21.3
485963 2012 HB_{66}	16.3	X	259.91725	80.00309	103.38381	16.88244	0.1848085	0.17986716	3.1081463	21	12 25.7	20.5
485964 2012 HO_{68}	16.6	X	272.21568	93.75944	65.01125	26.23452	0.2060695	0.17479161	3.1680278	21	12 5.6	20.8
485965 2012 HW_{68}	16.2	X	208.93377	207.34648	82.53721	16.64686	0.2623664	0.18126988	3.0920911	21	1 8.3	21.8
485966 2012 HQ_{70}	16.5	X	289.97133	353.16962	189.56270	8.04602	0.2119796	0.18482194	3.0523456	21	—	—
485967 2012 HU_{73}	16.6	X	281.13461	316.84236	204.74363	15.34272	0.1165494	0.17869699	3.1217005	21	—	—
485968 2012 HB_{75}	16.6	X	243.28149	354.39242	208.20393	4.43698	0.0990337	0.17537042	3.1610533	21	—	—
485969 2012 HW_{75}	16.5	X	256.33293	108.28675	58.70886	11.22466	0.1130402	0.17322163	3.1871411	21	12 9.1	21.0
485970 2012 HJ_{79}	16.3	X	193.87753	223.78789	54.66944	18.29271	0.1299428	0.17644002	3.1482652	21	—	—
485971 2012 HS_{81}	16.4	X	237.58033	356.90134	205.76495	14.52295	0.2033752	0.17613495	3.1518995	21	12 18.8	21.3
485972 2012 HX_{81}	16.2	X	247.99697	20.88768	168.56213	17.45909	0.1780090	0.17403358	3.1772205	21	12 18.9	21.1
485973 2012 JJ	17.9	X	114.39362	108.08140	173.10582	22.35718	0.0664729	0.37106549	1.9179429	21	—	—
485974 2012 JR	17.6	X	108.45696	195.82019	77.94080	23.60745	0.0549042	0.36722779	1.9312820	21	12 14.7	19.5
485975 2012 JZ	16.6	X	217.46982	72.04717	180.22509	10.99304	0.1767665	0.17937332	3.1138485	21	—	—
485976 2012 JY_{3}	16.5	X	268.79515	127.38333	107.91712	8.08073	0.0815366	0.18910771	3.0060524	21	1 2.8	21.0
485977 2012 JS_{18}	16.7	X	222.49367	184.94394	33.36472	5.12900	0.1834981	0.17390279	3.1788132	21	12 24.2	21.6
485978 2012 JV_{23}	15.7	X	235.00339	136.43942	91.78714	16.37046	0.1031227	0.17530238	3.1618712	21	—	—
485979 2012 JZ_{26}	15.9	X	244.81356	86.81804	116.81483	25.91593	0.2743167	0.17673120	3.1448063	21	12 22.2	20.8
485980 2012 JV_{36}	18.2	X	347.64651	348.85748	58.19906	21.94792	0.0760318	0.37002647	1.9215316	21	—	—
485981 2012 JT_{38}	16.8	X	326.05996	63.85564	78.78294	11.92253	0.1974558	0.18644060	3.0346531	21	—	—
485982 2012 JQ_{63}	17.0	X	253.89916	151.19344	69.42510	2.74459	0.2408853	0.18218179	3.0817642	21	—	—
485983 2012 JM_{65}	16.4	X	268.11655	189.78220	69.90781	13.16229	0.0905684	0.19203100	2.9754672	21	2 1.7	21.0
485984 2012 JT_{66}	16.2	X	276.93592	52.03426	123.78915	28.76249	0.1803784	0.18089101	3.0964072	21	—	—
485985 2012 JW_{66}	17.9	X	91.85354	115.60326	108.34701	24.85299	0.0665238	0.35168075	1.9877891	21	9 19.6	20.8
485986 2012 KF	17.7	X	160.00605	114.82412	91.22177	24.04707	0.0356619	0.36263408	1.9475576	21	11 22.9	20.1
485987 2012 KH_{2}	16.1	X	249.19951	66.70492	143.47176	15.94541	0.1651629	0.17556647	3.1586997	21	—	—
485988 2012 KC_{4}	17.8	X	301.42198	277.00015	150.83966	22.84125	0.1077244	0.36780443	1.9292629	21	11 28.7	19.9
485989 2012 KP_{5}	16.5	X	225.20805	90.37509	130.68555	26.20448	0.2286094	0.17282626	3.1920001	21	12 27.7	21.8
485990 2012 KY_{10}	16.4	X	263.47987	359.58454	215.85049	15.73381	0.0823713	0.18183338	3.0856996	21	—	—
485991 2012 KZ_{11}	16.2	X	205.06186	119.82999	149.46436	16.13105	0.2517651	0.17378591	3.1802384	21	—	—
485992 2012 KA_{17}	15.7	X	245.35321	284.95672	229.80743	14.52953	0.1243789	0.15913135	3.3726055	21	11 8.7	20.6
485993 2012 KC_{17}	16.1	X	354.84075	240.31341	230.28962	14.69797	0.0494755	0.17521354	3.1629399	21	—	—
485994 2012 KV_{34}	16.8	X	268.61737	92.47819	89.77396	8.86463	0.1771385	0.17568639	3.1572621	21	—	—
485995 2012 KO_{38}	16.5	X	180.30132	149.66296	118.40052	4.73967	0.1546985	0.17130641	3.2108522	21	—	—
485996 2012 KK_{47}	16.1	X	250.09105	74.41841	139.53220	26.68314	0.2347650	0.17937123	3.1138727	21	—	—
485997 2012 LF	17.6	X	260.00201	257.39710	221.50565	23.18105	0.1369504	0.36552111	1.9372890	21	11 17.8	18.9
485998 2012 LS	16.2	X	259.92708	89.34604	146.45829	16.10652	0.2861832	0.18463013	3.0544593	21	—	—
485999 2012 LE_{2}	16.2	X	229.76169	69.81192	177.98781	18.37373	0.1430093	0.17665951	3.1456571	21	—	—
486000 2012 LP_{2}	16.0	X	203.63867	104.59014	174.17274	25.25853	0.2611007	0.17329761	3.1862095	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
486001 2012 MR_7	18.9	X	85.00825	167.73290	276.25523	22.69038	0.1902853	0.50798798	1.5556089	21	—	—
486002 2012 MS_{11}	16.1	X	219.21499	97.28214	166.83312	25.55722	0.2798821	0.17516906	3.1634753	21	—	—
486003 2012 OG_1	17.9	X	162.80833	127.77015	122.51128	23.31647	0.0607906	0.36650138	1.9338330	21	—	—
486004 2012 OP_5	17.7	X	243.20515	59.74230	305.90098	4.81558	0.2027101	0.30278472	2.1964100	21	4 22.3	21.2
486005 2012 PQ_{11}	18.2	X	204.23069	115.13088	245.41159	1.72150	0.1873591	0.29196040	2.2503673	21	3 14.5	21.8
486006 2012 PD_{19}	17.2	X	211.62033	140.26752	205.55680	9.12871	0.3297493	0.28797720	2.2710707	21	3 1.9	21.5
486007 2012 PH_{22}	18.1	X	68.67997	60.55014	264.07853	3.05264	0.3003756	0.24304399	2.5429986	21	—	—
486008 2012 PK_{44}	14.2	X	307.08457	151.81702	147.21601	18.01120	0.1144136	0.08443532	5.1458046	21	5 15.2	21.0
486009 2012 QP_{25}	18.0	X	319.91000	359.58975	330.60251	5.39288	0.0924930	0.31690865	2.1306559	21	7 5.4	19.8
486010 2012 QS_{30}	18.1	X	286.23773	30.08876	303.45126	6.68237	0.2247658	0.30939891	2.1649948	21	4 19.9	21.1
486011 2012 QC_{37}	17.9	X	125.60859	44.77994	333.36865	4.47966	0.2386828	0.26803051	2.3823920	21	1 29.4	20.9
486012 2012 RN_{11}	17.9	X	247.73509	29.80355	335.88504	6.76027	0.1964328	0.30224389	2.1990293	21	4 26.6	21.2
486013 2012 RZ_{16}	16.8	X	69.20783	203.75272	191.30102	5.85980	0.1431060	0.25744184	2.4472779	21	—	—
486014 2012 RP_{17}	14.0	X	336.51464	281.97801	16.14066	10.62513	0.0293061	0.08298021	5.2057865	21	6 23.8	20.9
486015 2012 RN_{40}	18.1	X	204.73416	354.23702	355.20368	5.99975	0.2704233	0.28679791	2.2772920	21	3 4.5	22.1
486016 2012 RQ_{42}	17.3	X	84.75995	130.78358	241.41271	2.63704	0.2570177	0.25329521	2.4739147	21	—	—
486017 2012 SK_6	13.4	X	272.27407	75.26730	289.83596	20.84598	0.0425942	0.08450621	5.1429265	21	6 24.5	20.3
486018 2012 SQ_{23}	14.0	X	306.30680	133.41012	191.40606	24.33172	0.0891979	0.08295166	5.2069809	21	6 11.1	21.0
486019 2012 SA_{25}	14.3	X	294.74692	147.92512	187.39613	16.41137	0.0686519	0.08266729	5.2189151	21	6 12.1	21.3
486020 2012 SQ_{44}	17.7	X	229.00362	60.10695	323.67705	5.61510	0.0953771	0.30167329	2.2018014	21	5 9.6	20.7
486021 2012 SQ_{49}	13.7	X	355.33459	99.54769	183.68183	30.34869	0.0148231	0.08429128	5.1516650	21	6 28.6	20.9
486022 2012 SR_{52}	13.8	X	234.96072	43.21389	350.98032	29.81350	0.0467598	0.08267939	5.2184063	21	6 12.4	21.2
486023 2012 SK_{61}	18.2	X	76.10945	141.71167	253.85193	1.61574	0.1906293	0.25568403	2.4584817	21	—	—
486024 2012 TY_{10}	18.1	X	157.05578	146.82758	237.71967	0.45779	0.2019822	0.27421843	2.3464157	21	3 5.4	21.7
486025 2012 TX_{14}	13.6	X	335.99586	26.44364	261.77137	9.66913	0.0323124	0.08251513	5.2253293	21	6 11.6	20.4
486026 2012 TM_{15}	14.1	X	273.59468	160.54046	213.02927	3.50705	0.0403029	0.08358255	5.1807460	21	7 4.2	21.0
486027 2012 TF_{25}	18.4	X	313.43542	351.08213	325.49828	2.39860	0.1037405	0.30863250	2.1685775	21	5 28.8	20.4
486028 2012 TX_{28}	13.5	X	338.88558	278.11578	18.88103	30.74018	0.0708687	0.08273913	5.2158938	21	6 19.5	20.5
486029 2012 TO_{57}	17.3	X	102.64037	29.70377	20.82057	5.35453	0.2225141	0.26225457	2.4172450	21	2 11.3	20.1
486030 2012 TG_{66}	17.7	X	216.52557	8.30244	20.65435	6.60522	0.1063248	0.29335234	2.2432431	21	5 3.3	20.9
486031 2012 TN_{66}	18.5	X	158.73207	200.50196	230.28016	3.07158	0.1372017	0.28543920	2.2845130	21	4 29.8	21.7
486032 2012 TS_{67}	18.4	X	208.25794	99.27732	289.83056	2.34329	0.1545445	0.29139783	2.2532628	21	4 23.9	21.9
486033 2012 TV_{79}	14.1	X	318.00115	67.65484	248.97684	6.56441	0.1177277	0.08226819	5.2357804	21	6 13.6	20.7
486034 2012 TK_{83}	18.2	X	138.92783	67.45176	351.23662	2.43745	0.1571162	0.27793669	2.3254417	21	3 25.4	21.5
486035 2012 TL_{84}	18.6	X	67.36681	118.14500	347.14823	1.27517	0.1499441	0.26798634	2.3826538	21	2 13.8	20.8
486036 2012 TS_{84}	17.5	X	54.88459	113.26790	18.77397	23.38544	0.2679775	0.26781291	2.3836824	21	3 24.7	19.2
486037 2012 TK_{100}	17.9	X	110.42022	108.60384	263.20220	4.13049	0.2053726	0.25733689	2.4479433	21	—	—
486038 2012 TG_{108}	17.9	X	195.57512	158.68676	223.94486	5.81387	0.1550316	0.28622262	2.2803425	21	4 3.3	21.5
486039 2012 TQ_{124}	14.3	X	356.13566	317.73712	324.25290	9.05916	0.1603004	0.08332797	5.1912927	21	6 28.3	20.4
486040 2012 TU_{125}	17.5	X	185.66136	350.64662	24.79375	5.70102	0.1598498	0.28529116	2.2853033	21	3 18.8	20.9
486041 2012 TY_{127}	13.8	X	290.94407	309.50290	26.97471	14.50583	0.1316928	0.08255697	5.2235637	21	5 28.1	20.7
486042 2012 TW_{131}	17.5	X	98.80232	52.67429	25.09222	14.55638	0.3605230	0.26417063	2.4055425	21	4 5.2	20.7
486043 2012 TA_{132}	17.9	X	156.84912	58.41038	358.89033	5.78041	0.1335335	0.28144037	2.3061017	21	4 8.7	21.1
486044 2012 TB_{143}	14.4	X	315.02111	105.96220	221.21593	10.58000	0.0381214	0.08324237	5.1948509	21	6 29.4	21.2
486045 2012 TG_{147}	18.3	X	120.87057	218.22664	267.04634	5.30168	0.1657230	0.29193418	2.2505021	21	6 3.8	21.4
486046 2012 TD_{154}	18.5	X	84.15713	22.96746	52.95855	1.94325	0.1607534	0.26654848	2.3912147	21	2 4.1	20.9
486047 2012 TS_{159}	17.8	X	139.19650	47.16710	31.45969	7.58267	0.1284843	0.28467268	2.2886121	21	4 18.1	20.7
486048 2012 TC_{161}	18.4	X	178.27240	0.11398	48.84790	2.72062	0.1067147	0.28912127	2.2650755	21	4 20.2	21.5
486049 2012 TG_{162}	18.6	X	122.94436	253.06381	194.18316	4.16641	0.1777971	0.27908481	2.3190596	21	4 17.5	21.5
486050 2012 TG_{176}	18.6	X	158.55594	56.81455	13.28197	2.52806	0.1393238	0.28918616	2.2647367	21	4 28.3	21.7
486051 2012 TJ_{181}	18.5	X	123.01186	221.96214	294.82703	3.82199	0.0508866	0.30634350	2.1793665	21	7 7.6	20.9
486052 2012 TS_{185}	17.0	X	161.43634	78.90704	265.24659	4.90812	0.0497173	0.26864170	2.3787772	21	1 1.5	20.0
486053 2012 TD_{186}	17.9	X	167.51572	46.56772	5.94442	6.32177	0.1825797	0.28258975	2.2998444	21	4 16.7	21.3
486054 2012 TP_{193}	18.1	X	120.48100	251.61772	182.51634	2.30459	0.1945909	0.27254244	2.3560253	21	3 30.6	21.1
486055 2012 TT_{197}	16.4	X	34.11820	31.50592	353.31141	16.96347	0.2224114	0.23461309	2.6035618	21	—	—
486056 2012 TJ_{207}	18.3	X	161.83139	120.03689	316.25097	4.11382	0.1212589	0.28834345	2.2691471	21	5 7.9	21.5
486057 2012 TE_{210}	14.2	X	182.68283	284.37237	172.76632	22.81349	0.0416487	0.08211069	5.2424736	21	6 30.9	21.6
486058 2012 TP_{221}	18.6	X	145.52200	98.78544	17.11177	3.92606	0.1396128	0.29824567	2.2186389	21	6 15.7	21.7
486059 2012 TN_{236}	17.7	X	99.93228	47.73810	70.28817	7.27307	0.0660828	0.28487197	2.2875446	21	4 14.7	20.4
486060 2012 TF_{237}	13.9	X	329.44897	273.52424	43.36507	18.37016	0.0453584	0.08378728	5.1723032	21	7 6.2	20.8
486061 2012 TW_{242}	17.9	X	192.57288	307.62221	53.27124	5.35196	0.1386182	0.28108040	2.3080701	21	3 7.7	21.4
486062 2012 TK_{247}	18.3	X	294.97152	336.99691	349.91959	4.25689	0.2214019	0.30649214	2.1786618	21	4 24.0	21.1
486063 2012 TF_{255}	17.8	X	218.95376	172.31716	236.10709	6.74281	0.1127651	0.29903661	2.2147250	21	6 2.9	20.9
486064 2012 TK_{267}	18.2	X	134.41337	27.39000	77.25533	4.49438	0.1461403	0.28727395	2.2747755	21	5 20.4	21.2
486065 2012 TM_{294}	18.2	X	164.65780	12.64903	349.16299	1.57251	0.2590193	0.27107119	2.3645426	21	2 17.5	21.9
486066 2012 TW_{301}	17.4	X	170.46260	211.04495	155.13255	6.76900	0.1330423	0.27606260	2.3359543	21	2 17.2	20.6
486067 2012 TH_{309}	18.1	X	209.39207	244.83572	145.16537	5.14761	0.1548000	0.29511437	2.2343051	21	4 29.1	21.5
486068 2012 TT_{311}	17.9	X	191.23203	185.67778	173.75071	2.07681	0.2462298	0.27893684	2.3198797	21	3 5.8	21.9
486069 2012 TZ_{311}	17.8	X	127.77267	232.27841	131.31837	4.89904	0.2253949	0.26042854	2.4285311	21	1 11.8	20.9
486070 2012 TJ_{321}	17.3	X	209.76624	256.00830	86.87821	12.42579	0.2046854	0.28201153	2.3029869	21	3 5.1	21.3
486071 2012 UY_1	18.5	X	154.66065	12.56708	110.55193	0.68313	0.0271945	0.30526846	2.1844801	21	6 29.2	20.9
486072 2012 UA_2	18.2	X	144.45818	276.31401	128.56708	1.76438	0.1826774	0.27650865	2.3334414	21	3 17.5	21.4
486073 2012 UM_{18}	14.1	X	301.80818	45.04926	290.84754	10.97215	0.0642601	0.08090700	5.2943419	21	6 21.9	21.0
486074 2012 UN_{18}	14.3	X	350.32427	8.45616	282.23580	8.13405	0.0644767	0.08319760	5.1967143	21	7 1.3	20.9
486075 2012 UC_{26}	17.9	X	110.68704	126.62204	319.73739	6.24980	0.0963124	0.27577762	2.3375633	21	3 16.4	20.9
486076 2012 UC_{28}	18.5	X	132.31993	1.31982	81.66693	2.66013	0.1885867	0.27897960	2.3196427	21	4 24.4	21.8
486077 2012 UX_{28}	17.9	X	303.98197	352.74541	326.17448	5.85110	0.1640353	0.30334386	2.1937101	21	5 3.9	20.5
486078 2012 UZ_{30}	18.5	X	134.90952	171.11205	251.61015	0.91619	0.2214064	0.27386202	2.3484511	21	4 3.1	21.9
486079 2012 UE_{33}	18.2	X	130.30052	42.51440	36.76902	5.55134	0.0919853	0.27981453	2.3150260	21	4 4.8	21.2
486080 2012 UX_{40}	17.8	X	109.49847	0.76672	106.42703	1.47603	0.0893374	0.28244396	2.3006357	21	4 14.5	20.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
486081 2012 UX_{41}	18.4	X	146.65982	265.78860	200.77509	6.00743	0.1031562	0.29295027	2.2452952	21	6 1.9	21.5
486082 2012 UA_{42}	18.6	X	149.75522	345.98841	62.62436	2.63907	0.1779080	0.27766092	2.3269812	21	3 27.8	21.9
486083 2012 UF_{42}	18.3	X	172.78509	37.68062	349.11624	0.80052	0.0954350	0.27973815	2.3154474	21	3 15.1	21.5
486084 2012 UU_{50}	18.4	X	106.88044	4.98212	105.32526	3.18513	0.1692528	0.27758811	2.3273881	21	4 29.2	21.2
486085 2012 UN_{62}	17.9	X	187.93935	176.14644	186.86568	4.33549	0.2157506	0.27788215	2.3257460	21	3 5.9	21.8
486086 2012 UX_{75}	18.4	X	137.05329	39.47612	57.78548	2.56074	0.1561928	0.28437483	2.2902098	21	5 14.0	21.6
486087 2012 UN_{87}	18.2	X	134.75682	60.13006	43.39589	3.71708	0.1633937	0.28271246	2.2991788	21	5 20.4	21.4
486088 2012 UL_{88}	18.2	X	147.32671	7.67334	34.89578	1.74925	0.1810742	0.27249096	2.3563221	21	3 17.7	21.4
486089 2012 UR_{93}	17.7	X	90.57746	140.41720	337.72465	5.44178	0.1053332	0.27959422	2.3162419	21	4 2.3	20.3
486090 2012 UA_{133}	17.9	X	210.90225	237.14268	126.90790	2.24325	0.2155854	0.28451170	2.2894753	21	3 27.3	21.5
486091 2012 UC_{134}	15.9	X	146.84033	354.94765	285.12161	10.32692	0.1056050	0.24103228	2.5571286	21	—	—
486092 2012 UY_{134}	17.8	X	217.23353	20.52362	26.12643	8.04992	0.1736025	0.29481368	2.2358241	21	5 24.7	21.4
486093 2012 UE_{152}	17.8	X	175.22731	252.80701	126.27844	1.58831	0.2227483	0.27668488	2.3324505	21	3 16.9	21.7
486094 2012 UW_{155}	18.5	X	154.86965	33.51736	38.94775	7.14214	0.1453518	0.28273728	2.2990442	21	4 28.9	21.7
486095 2012 UA_{160}	17.4	X	168.44736	277.04698	112.62481	6.37569	0.2331101	0.27724024	2.3293346	21	3 27.4	21.2
486096 2012 UK_{164}	15.9	X	84.61440	121.88972	225.47999	10.83753	0.2200830	0.23921695	2.5700491	21	—	—
486097 2012 UZ_{165}	16.8	X	156.99380	166.94078	250.04160	25.62457	0.2153605	0.28332518	2.2958628	21	4 10.2	20.9
486098 2012 UL_{167}	17.9	X	233.18219	158.09888	188.29413	5.88523	0.2099592	0.28908941	2.2652419	21	3 22.2	21.5
486099 2012 UM_{167}	17.6	X	175.05470	199.06599	169.92523	3.73908	0.2207533	0.27587125	2.3370343	21	3 3.4	21.4
486100 2012 UB_{170}	16.6	X	6.89889	138.84142	318.17674	12.04879	0.2178581	0.24128665	2.5553311	21	—	—
486101 2012 VY_{21}	18.5	X	147.14077	34.88472	47.03912	7.06200	0.1312717	0.28386630	2.2929442	21	5 2.2	21.7
486102 2012 VH_{29}	19.0	X	169.49292	68.65598	344.12099	2.74222	0.1366063	0.28489218	2.2874364	21	4 16.4	22.2
486103 2012 VA_{30}	18.4	X	120.73563	208.54329	246.69007	1.76766	0.1263843	0.28015869	2.3131297	21	4 17.5	21.2
486104 2012 VH_{30}	18.2	X	112.96793	139.11762	329.38925	6.73908	0.1304346	0.28264420	2.2995490	21	4 23.5	21.2
486105 2012 VD_{40}	17.3	X	227.58830	101.55537	245.44407	8.91632	0.0846614	0.27976788	2.3152833	21	3 19.3	20.7
486106 2012 VF_{50}	17.9	X	121.25509	277.33163	95.88645	2.66244	0.1473210	0.25986170	2.4320614	21	1 4.7	20.9
486107 2012 VU_{52}	17.6	X	241.72638	359.80571	48.81724	7.78203	0.0221128	0.30444727	2.1884065	21	7 14.3	20.3
486108 2012 VH_{60}	17.2	X	161.81420	269.82295	61.87747	9.36251	0.0216901	0.25466736	2.4650204	21	—	—
486109 2012 VK_{63}	18.8	X	124.12737	268.50229	164.13045	2.80534	0.1418644	0.27356596	2.3501451	21	3 25.9	21.9
486110 2012 VT_{63}	18.6	X	125.85307	46.17957	52.06433	5.50823	0.1293403	0.27967065	2.3158200	21	4 29.9	21.5
486111 2012 VQ_{68}	18.6	X	109.47313	104.02832	353.92618	3.43064	0.2149483	0.27592171	2.3367494	21	4 19.8	21.6
486112 2012 VE_{70}	17.7	X	86.65663	29.25532	69.92299	7.19147	0.1067237	0.26810259	2.3819650	21	3 8.6	20.5
486113 2012 VS_{75}	17.7	X	148.66249	262.97465	109.46150	3.54515	0.2511468	0.26489636	2.4011469	21	2 17.3	21.3
486114 2012 VF_{76}	16.3	X	103.08339	106.43516	222.42276	9.08621	0.2469433	0.23859491	2.5745140	21	—	—
486115 2012 VN_{78}	18.2	X	187.36110	101.11685	303.77018	5.16006	0.1582111	0.28701889	2.2761230	21	4 23.3	21.8
486116 2012 VP_{83}	18.3	X	113.10343	315.19237	94.33727	2.68878	0.1595982	0.26250454	2.4157102	21	2 13.2	21.3
486117 2012 VW_{86}	17.9	X	102.94742	196.40320	328.51903	3.40730	0.1636961	0.28918704	2.2647321	21	7 8.6	20.8
486118 2012 VN_{89}	18.0	X	118.12113	329.57279	77.84798	3.43256	0.1998284	0.26385610	2.4074538	21	2 23.7	21.1
486119 2012 VV_{90}	18.2	X	101.28620	46.04962	76.36814	4.73608	0.1859834	0.27465232	2.3439439	21	5 11.2	21.1
486120 2012 VU_{98}	17.7	X	189.19956	316.19182	50.00927	9.36632	0.1631911	0.27867659	2.3213238	21	3 14.5	21.4
486121 2012 VA_{105}	18.5	X	136.65292	28.84010	62.66077	6.72757	0.2231827	0.28004122	2.3137765	21	5 13.2	22.0
486122 2012 VA_{113}	17.2	X	10.12927	200.59749	275.53170	4.63589	0.2018636	0.24257785	2.5462553	21	—	—
486123 2012 WA	17.0	X	48.26580	221.09859	255.81463	22.01436	0.2673877	0.25801638	2.4436436	21	1 21.3	19.0
486124 2012 WY_{4}	17.4	X	80.29420	177.38498	52.81637	6.75966	0.0721875	0.30791734	2.1719340	21	9 2.0	20.0
486125 2012 WQ_{7}	18.8	X	115.72979	50.39821	54.14152	2.63068	0.1744592	0.27624534	2.3349240	21	5 2.2	21.9
486126 2012 WC_{9}	17.0	X	45.75775	252.34544	148.16235	6.63253	0.2861690	0.23983712	2.5656167	21	—	—
486127 2012 WT_{9}	17.9	X	134.90834	303.84458	101.19070	5.51716	0.1745640	0.26477992	2.4018508	21	3 9.7	21.2
486128 2012 WT_{14}	17.9	X	197.27168	256.48965	96.66108	2.54283	0.1997375	0.27531837	2.3401620	21	3 3.3	21.7
486129 2012 WX_{14}	18.2	X	133.59940	234.04006	211.37967	2.68083	0.2044138	0.27551283	2.3390607	21	4 30.1	21.5
486130 2012 WS_{15}	18.1	X	80.67649	355.91864	101.18062	6.70670	0.1681133	0.25905841	2.4370863	21	3 6.1	20.7
486131 2012 WS_{23}	18.1	X	125.15706	342.64113	46.94491	1.96597	0.1925534	0.26167499	2.4208130	21	2 7.4	21.1
486132 2012 WV_{23}	17.7	X	196.25207	322.35337	79.60560	8.63729	0.0883081	0.28272337	2.2991196	21	5 3.3	21.0
486133 2012 WE_{25}	18.0	X	143.10629	182.47517	273.21923	3.27795	0.1750724	0.28066159	2.3103657	21	5 19.9	21.4
486134 2012 WK_{25}	17.8	X	106.73979	48.53319	56.11145	4.07699	0.1295067	0.27475085	2.3433834	21	4 14.9	20.7
486135 2012 WR_{25}	18.3	X	174.33131	126.96741	293.51346	4.40212	0.2119824	0.28421620	2.2910620	21	5 4.2	22.1
486136 2012 WY_{33}	17.8	X	100.38964	25.95443	80.27078	9.63279	0.1696902	0.26860820	2.3789750	21	4 18.9	20.8
486137 2012 XC_{6}	17.9	X	224.98444	206.63228	148.66234	5.41216	0.1550461	0.28317604	2.2966689	21	3 30.6	21.3
486138 2012 XG_{7}	18.3	X	128.76265	87.34064	56.52150	4.21545	0.0505552	0.29552721	2.2322238	21	6 26.2	20.9
486139 2012 XJ_{9}	18.6	X	80.87244	350.81445	104.54310	0.46252	0.2286348	0.26253471	2.4155251	21	3 10.3	20.8
486140 2012 XZ_{12}	16.6	X	65.55635	274.76405	89.33055	6.34282	0.1852980	0.23665340	2.5885758	21	—	—
486141 2012 XO_{13}	18.1	X	157.43190	208.96251	164.77943	3.43281	0.1448538	0.26617700	2.3934390	21	2 15.5	21.3
486142 2012 XY_{13}	18.0	X	263.03291	230.65235	103.58800	6.60009	0.2021049	0.29077765	2.2564655	21	4 7.2	21.4
486143 2012 XY_{23}	17.8	X	331.87509	53.23689	228.82406	1.48029	0.1340684	0.29339291	2.2430363	21	5 3.6	19.9
486144 2012 XQ_{30}	18.2	X	124.31206	120.95880	289.72365	2.77096	0.2024949	0.26521563	2.3992194	21	3 4.6	21.5
486145 2012 XD_{36}	18.2	X	114.92670	6.36837	88.02245	2.46405	0.1523398	0.27139882	2.3626392	21	4 15.4	21.3
486146 2012 XP_{36}	18.4	X	117.86166	200.51004	215.74673	0.49914	0.1631735	0.26357493	2.4091656	21	2 27.7	21.3
486147 2012 XA_{43}	17.1	X	90.92407	109.98113	272.21828	2.19189	0.1059556	0.24508814	2.5288390	21	—	—
486148 2012 XD_{48}	17.5	X	83.34058	230.62225	322.34674	4.59961	0.0262001	0.28687941	2.2768607	21	6 30.0	20.1
486149 2012 XA_{51}	17.9	X	6.50544	337.58392	52.90726	12.56010	0.1822262	0.22713696	2.6603831	21	12 25.3	21.0
486150 2012 XW_{51}	17.5	X	219.92532	292.97198	51.32369	5.96994	0.1645508	0.27825477	2.3236692	21	3 13.4	21.2
486151 2012 XO_{62}	18.5	X	148.30425	293.11057	121.55628	8.09929	0.0979927	0.27312871	2.3526526	21	3 28.8	21.8
486152 2012 XC_{91}	18.2	X	133.87171	44.88775	73.98993	7.88278	0.0596677	0.28690956	2.2767012	21	5 29.4	20.9
486153 2012 XG_{95}	16.7	X	348.74281	218.78616	246.42101	21.08658	0.0976247	0.23432379	2.6057043	21	—	—
486154 2012 XQ_{105}	17.1	X	66.14097	157.88101	332.35288	6.37727	0.1553108	0.25842566	2.4410629	21	3 21.2	19.5
486155 2012 XW_{105}	16.5	X	310.98305	158.79804	305.29867	12.40182	0.1387913	0.21532134	2.7568385	21	12 19.3	19.7
486156 2012 XF_{107}	18.1	X	152.14027	148.56156	246.81341	3.63055	0.1888320	0.26920425	2.3754621	21	3 12.0	21.7
486157 2012 XL_{107}	18.0	X	146.34655	275.65657	129.15163	2.76608	0.2142309	0.26990770	2.3713329	21	3 23.7	21.6
486158 2012 XJ_{110}	17.6	X	170.67140	128.13953	299.32959	8.18290	0.2147449	0.28300654	2.2975858	21	5 9.2	21.5
486159 2012 XC_{120}	17.7	X	77.21648	348.59908	83.32171	8.86389	0.1960488	0.24862533	2.5047966	21	1 27.9	20.2
486160 2012 XF_{120}	17.4	X	93.66065	118.05176	328.06959	4.30165	0.1291734	0.25612730	2.4556444	21	3 1.9	20.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
486161 2012 XR_{123}	16.5	X	43.45488	194.01323	225.85491	21.36541	0.0626270	0.23881976	2.5728978	21	—	—
486162 2012 XL_{132}	16.5	X	70.56409	136.43465	228.26632	11.92422	0.2283092	0.23699539	2.5860849	21	—	—
486163 2012 XB_{135}	17.5	X	220.67407	315.57918	83.90435	6.85446	0.0831156	0.29364809	2.2417367	21	5 26.1	20.3
486164 2012 XO_{137}	16.7	X	62.98989	199.42036	219.71099	14.13335	0.1083794	0.24521131	2.5279921	21	—	—
486165 2012 XZ_{137}	17.4	X	187.99639	277.08701	59.47350	9.24902	0.2393220	0.26814153	2.3817344	21	2 8.1	21.5
486166 2012 XG_{140}	18.5	X	106.40103	323.91729	116.92094	2.08562	0.1545769	0.26669630	2.3903310	21	3 17.1	21.2
486167 2012 XM_{146}	18.0	X	62.66964	97.31373	83.27573	7.20125	0.0711153	0.28299429	2.2976521	21	5 18.2	20.4
486168 2012 XB_{152}	16.7	X	39.22070	276.77198	116.92493	13.27736	0.2739836	0.23076134	2.6324534	21	—	—
486169 2012 YC_{1}	17.1	X	3.83759	281.76150	260.07542	13.47931	0.0657125	0.25290892	2.4764332	21	2 8.3	20.3
486170 Zolnowska	16.5	X	75.74653	172.75619	257.25084	6.72818	0.2423343	0.24329301	2.5412631	21	1 26.9	18.8
486171 2012 YB_{3}	18.8	X	200.52200	312.35567	114.22038	23.08952	0.1208633	0.51939450	1.5327494	21	6 5.7	20.5
486172 2012 YB_{5}	17.1	X	112.91187	182.12854	339.67513	7.49989	0.0400155	0.28351903	2.2948162	21	6 29.9	20.0
486173 2013 AY_{3}	18.3	X	60.80472	148.87714	334.88931	5.73176	0.3641559	0.25323887	2.4742817	21	4 7.1	20.1
486174 2013 AO_{8}	18.1	X	115.59235	350.13825	121.29891	3.13712	0.1442970	0.26654158	2.3912560	21	5 8.9	21.2
486175 2013 AU_{8}	17.4	X	30.67468	282.56030	300.44855	18.69218	0.2200550	0.27071895	2.3665932	21	6 13.9	19.5
486176 2013 AB_{9}	17.0	X	32.71400	326.48661	89.18181	12.80440	0.0373353	0.22609728	2.6685324	21	—	—
486177 2013 AQ_{13}	16.1	X	98.18266	169.56947	121.66493	15.36931	0.1570208	0.20510976	2.8475968	21	12 7.9	20.8
486178 2013 AT_{14}	17.0	X	307.92148	55.21079	107.76016	14.80847	0.1397888	0.22618033	2.6678792	21	—	—
486179 2013 AH_{18}	17.2	X	168.25697	305.29662	109.15986	11.72325	0.2071624	0.27291111	2.3539030	21	4 28.6	21.2
486180 2013 AX_{18}	17.6	X	87.79951	127.50959	331.34274	2.12022	0.1475932	0.25652048	2.4531345	21	3 13.7	20.4
486181 2013 AW_{19}	17.4	X	137.21960	353.19814	80.47309	3.70927	0.1861839	0.26412729	2.4058056	21	4 18.8	20.9
486182 2013 AE_{21}	17.6	X	117.20721	341.12521	96.32107	10.27010	0.1923417	0.26139871	2.4225184	21	4 6.7	21.1
486183 2013 AN_{21}	16.4	X	257.21849	146.38895	99.33692	12.91506	0.0366975	0.23797078	2.5790136	21	—	—
486184 2013 AM_{23}	17.0	X	88.19014	96.39453	314.62580	11.11026	0.0566370	0.23749762	2.5824378	21	1 1.8	20.3
486185 2013 AV_{23}	16.9	X	4.00140	45.44187	92.97364	7.44622	0.0511052	0.23883769	2.5727691	21	—	—
486186 2013 AJ_{35}	17.5	X	45.01939	54.52554	84.81776	6.56592	0.0598099	0.25426517	2.4676192	21	2 23.3	20.4
486187 2013 AW_{35}	17.4	X	126.51741	316.16092	89.91751	8.49468	0.1107154	0.25470515	2.4647766	21	2 22.8	20.7
486188 2013 AC_{36}	17.7	X	51.99704	56.02789	87.43934	7.45887	0.1161790	0.25632480	2.4543828	21	3 17.5	20.3
486189 2013 AQ_{36}	18.0	X	98.15593	63.06394	14.53679	2.58656	0.1771545	0.25583506	2.4575140	21	3 6.1	20.9
486190 2013 AK_{37}	17.2	X	88.39972	82.03058	301.91402	2.93657	0.2851044	0.24100226	2.5573410	21	—	—
486191 2013 AM_{40}	17.1	X	87.12958	348.61887	128.42005	9.90412	0.1058715	0.25929651	2.4355942	21	4 5.4	20.1
486192 2013 AE_{41}	17.9	X	74.62017	142.34563	289.35594	5.65204	0.1638124	0.24388135	2.5371744	21	1 17.6	20.3
486193 2013 AX_{42}	17.3	X	79.81078	307.55022	79.43910	5.07435	0.2059720	0.23343271	2.6123312	21	—	—
486194 2013 AH_{43}	17.7	X	40.91075	94.75599	72.79669	4.64879	0.1502030	0.25572558	2.4582154	21	4 2.2	19.9
486195 2013 AO_{44}	17.1	X	21.75068	16.91850	113.13846	4.79912	0.0794749	0.23915016	2.5705276	21	1 5.3	20.2
486196 2013 AS_{44}	16.7	X	352.97904	345.40898	124.49326	15.06254	0.1542858	0.22521096	2.6755293	21	—	—
486197 2013 AW_{47}	16.7	X	356.46228	61.50352	70.17582	12.52838	0.1290404	0.23770312	2.5809492	21	—	—
486198 2013 AH_{52}	16.7	X	350.97035	353.06791	74.76405	18.88742	0.1216196	0.21782859	2.7356432	21	—	—
486199 2013 AB_{55}	17.3	X	12.46986	347.76852	118.33794	14.21658	0.2351522	0.23198696	2.6231734	21	—	—
486200 2013 AK_{55}	17.8	X	76.97098	37.16212	61.78494	6.14579	0.1556552	0.25360550	2.4718964	21	3 1.9	20.4
486201 2013 AC_{60}	17.1	X	24.98213	146.03297	19.07545	6.12993	0.0387196	0.25565471	2.4586697	21	2 27.3	20.0
486202 2013 AQ_{68}	16.7	X	334.60505	251.60628	251.38598	9.90398	0.1441649	0.23099819	2.6306536	21	—	—
486203 2013 AD_{69}	17.2	X	29.17045	269.31750	283.52404	5.32295	0.1045515	0.26457802	2.4030725	21	4 7.8	19.6
486204 2013 AP_{74}	16.8	X	109.20744	91.65169	332.57871	5.59613	0.1264718	0.25252002	2.4789752	21	2 23.2	19.9
486205 2013 AF_{77}	17.2	X	106.72676	136.51986	332.95983	14.96577	0.1560138	0.26363764	2.4087835	21	4 17.4	20.6
486206 2013 AH_{77}	17.6	X	58.84889	342.31344	93.15656	10.09104	0.1372130	0.23811452	2.5779756	21	—	—
486207 2013 AD_{78}	17.5	X	46.42171	6.39463	148.13720	8.96817	0.1299117	0.25687545	2.4508740	21	3 22.4	19.9
486208 2013 AS_{80}	18.0	X	87.36991	43.69665	63.64728	2.43338	0.1547151	0.25896523	2.4376709	21	3 27.5	20.6
486209 2013 AH_{83}	17.2	X	89.06274	342.23570	76.03825	9.55076	0.1203295	0.24696792	2.5159907	21	1 18.2	20.1
486210 2013 AN_{88}	17.8	X	45.88457	140.90093	33.91830	2.73648	0.1384560	0.26318160	2.4115653	21	4 18.6	19.9
486211 2013 AQ_{88}	17.3	X	85.51386	8.35043	109.99176	7.63928	0.1202312	0.25911095	2.4367569	21	4 6.7	20.3
486212 2013 AJ_{89}	16.7	X	340.50984	6.13880	100.35847	12.46218	0.0478222	0.22194520	2.7017109	21	—	—
486213 2013 AQ_{91}	18.1	X	60.78894	40.25969	82.01548	2.77928	0.1432824	0.25357462	2.4720971	21	3 2.8	20.5
486214 2013 AN_{95}	18.1	X	86.62729	202.61002	254.93460	0.97314	0.1483927	0.25821581	2.4423852	21	3 9.7	20.7
486215 2013 AA_{96}	18.0	X	214.50682	271.84315	93.50350	6.40604	0.2110523	0.28195436	2.3032982	21	4 3.5	21.9
486216 2013 AS_{96}	16.6	X	204.37081	147.44283	103.18132	12.72268	0.0347405	0.22448944	2.6812591	21	—	—
486217 2013 AD_{97}	16.3	X	135.27211	164.89616	123.19696	7.06364	0.0348529	0.21359845	2.7716432	21	—	—
486218 2013 AQ_{97}	16.7	X	67.72846	88.09884	295.30192	11.19355	0.1182516	0.22944490	2.6425129	21	—	—
486219 2013 AQ_{100}	18.2	X	85.70412	355.70927	134.49007	2.00568	0.1735521	0.26220123	2.4175728	21	4 29.1	20.9
486220 2013 AB_{103}	17.3	X	120.82048	54.78522	315.52079	9.68112	0.3502940	0.25004383	2.4953145	21	1 31.8	20.8
486221 2013 AS_{103}	18.3	X	113.83083	248.38924	242.25053	1.91299	0.1286038	0.27392587	2.3480861	21	5 29.6	21.3
486222 2013 AE_{105}	17.3	X	23.06840	319.90714	142.21523	6.62170	0.1996016	0.23237380	2.6202613	21	—	—
486223 2013 AY_{111}	17.4	X	314.38241	276.55119	311.11465	5.05576	0.1382190	0.24468314	2.5316287	21	1 27.6	20.5
486224 2013 AV_{120}	17.6	X	97.69550	351.20191	109.61999	2.45814	0.1526267	0.25847984	2.4407217	21	4 2.7	20.5
486225 2013 AQ_{121}	17.4	X	175.03699	242.13851	113.08672	15.26564	0.1671649	0.25792231	2.4442377	21	2 15.9	21.3
486226 2013 AK_{128}	17.5	X	83.15999	62.92375	325.57816	13.78809	0.1875571	0.23929118	2.5695176	21	—	—
486227 2013 AY_{129}	17.3	X	173.27533	246.83166	146.72171	7.45856	0.1235323	0.26349689	2.4096413	21	3 30.7	20.9
486228 2013 AM_{130}	17.7	X	12.83227	225.58152	336.58213	9.26590	0.0162263	0.26138593	2.4225974	21	3 26.6	20.9
486229 2013 AA_{139}	17.3	X	342.81584	315.20791	170.32994	13.74150	0.1986039	0.22944588	2.6425054	21	—	—
486230 2013 AM_{165}	17.7	X	21.91241	344.81341	243.66066	10.13679	0.0261197	0.27405669	2.3473388	21	5 18.8	20.3
486231 2013 AA_{174}	18.0	X	316.80573	94.37670	174.70659	11.47024	0.1713854	0.26393501	2.4069739	21	3 18.5	20.6
486232 2013 BL_{4}	17.0	X	48.63062	166.60256	282.70896	13.65672	0.0614024	0.23946559	2.5682698	21	—	—
486233 2013 BK_{5}	16.9	X	5.24746	312.07803	132.90385	18.44195	0.1212543	0.22635405	2.6665140	21	—	—
486234 2013 BE_{6}	17.5	X	92.17595	174.01132	230.16854	5.59987	0.1728556	0.24434997	2.5339295	21	1 10.0	20.3
486235 2013 BZ_{8}	16.7	X	196.02505	8.12471	293.49633	10.89703	0.2063964	0.24044404	2.5612976	21	1 3.6	21.0
486236 2013 BG_{10}	17.6	X	180.71151	53.33900	323.62425	6.45493	0.1286352	0.26325812	2.4110980	21	3 13.1	21.3
486237 2013 BL_{11}	17.5	X	349.28125	107.13500	115.27835	5.69987	0.0977293	0.25848872	2.4406658	21	3 18.7	20.2
486238 2013 BG_{15}	17.7	X	352.49995	82.15519	134.68742	3.71383	0.0303066	0.26043263	2.4285057	21	3 21.6	20.5
486239 Zosiakaczmarek	16.6	X	46.92719	115.87209	299.04879	29.45736	0.3331038	0.23405036	2.6077333	21	—	—
486240 2013 BL_{19}	18.8	X	33.32033	137.65365	339.81573	2.95480	0.2396626	0.24260582	2.5460596	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
486241 2013 BW_{24}	17.5	X	106.78413	183.00115	237.03001	2.46310	0.1873233	0.25350915	2.4725227	21	2 22.5	20.6
486242 2013 BE_{26}	16.9	X	121.37395	47.09324	326.09814	13.41180	0.0106484	0.23176351	2.6248592	21	—	—
486243 2013 BL_{30}	17.2	X	323.35045	302.39583	300.13613	3.88371	0.1210546	0.25722758	2.4486368	21	2 26.9	20.1
486244 2013 BX_{30}	17.4	X	194.45698	5.78211	357.31868	5.00760	0.1752630	0.26398683	2.4066589	21	3 12.8	21.2
486245 2013 BH_{32}	17.9	X	158.32305	28.27869	351.98082	5.51127	0.1954471	0.25905051	2.4371359	21	3 3.2	21.6
486246 2013 BJ_{32}	17.3	X	356.34157	305.13058	334.22246	9.17632	0.2056888	0.27993920	2.3143386	21	6 17.3	19.0
486247 2013 BF_{33}	17.1	X	316.52196	67.43705	129.94811	14.78094	0.0818555	0.23972377	2.5664255	21	—	—
486248 2013 BG_{33}	17.6	X	38.50517	345.16780	129.18677	15.55454	0.0543444	0.24257739	2.5462586	21	1 9.9	20.7
486249 2013 BM_{36}	18.2	X	66.28645	280.60091	231.08118	1.70232	0.1111712	0.26281809	2.4137885	21	4 17.1	20.6
486250 2013 BV_{36}	17.9	X	192.45997	247.13255	124.93322	1.93750	0.1275899	0.26518725	2.3993906	21	3 21.2	21.4
486251 2013 BQ_{40}	17.6	X	29.95575	355.09815	119.68245	4.13512	0.0942142	0.23824554	2.5770304	21	—	—
486252 2013 BN_{41}	17.6	X	141.29013	314.05528	128.18374	10.41069	0.1747360	0.26800023	2.3825715	21	5 5.6	21.3
486253 2013 BK_{42}	17.8	X	5.02687	75.67140	137.53101	2.82282	0.1563543	0.25611218	2.4557410	21	3 26.3	20.1
486254 2013 BO_{42}	16.6	X	317.45466	202.08736	307.84361	11.11598	0.1269230	0.22447038	2.6814108	21	—	—
486255 2013 BB_{48}	17.6	X	83.34791	25.49926	104.71235	7.62725	0.0673138	0.26304845	2.4123791	21	4 11.4	20.6
486256 2013 BA_{56}	18.3	X	93.01130	352.27066	140.03478	2.65673	0.1539967	0.26617774	2.3934346	21	5 9.4	21.1
486257 2013 BT_{70}	17.0	X	39.85780	32.07159	153.11345	23.56064	0.1852596	0.25975299	2.4327399	21	5 6.2	19.9
486258 2013 BW_{75}	17.3	X	333.42462	77.99177	100.96160	6.51771	0.0810793	0.23812516	2.5778988	21	—	—
486259 2013 BQ_{77}	17.5	X	124.09082	315.89079	117.85776	5.45941	0.1734256	0.26082588	2.4260641	21	4 4.5	20.9
486260 2013 BT_{79}	17.3	X	116.12272	173.31418	253.52487	5.05689	0.1792579	0.25613613	2.4555879	21	3 12.5	20.6
486261 2013 CU_{2}	17.7	X	17.22463	260.75026	142.64476	11.57744	0.3515303	0.22479003	2.6788682	21	—	—
486262 2013 CR_{7}	18.1	X	107.37101	319.24619	155.53936	2.48087	0.1702345	0.26479186	2.4017785	21	5 6.8	21.1
486263 2013 CL_{9}	16.7	X	95.09914	107.97713	291.44231	10.63317	0.1034359	0.23432809	2.6056724	21	1 2.4	19.8
486264 2013 CN_{10}	17.4	X	336.54381	88.57882	119.23366	6.77004	0.0925355	0.24541433	2.5265977	21	2 8.1	20.3
486265 2013 CU_{10}	16.4	X	351.17181	185.35987	353.91676	31.51387	0.1953775	0.23643874	2.5901423	21	1 24.2	20.1
486266 2013 CZ_{12}	17.9	X	67.16742	63.23880	342.64720	4.40561	0.2277910	0.23483491	2.6019220	21	—	—
486267 2013 CE_{13}	17.9	X	91.95086	60.33669	357.00476	3.52373	0.1829171	0.24457659	2.5323640	21	1 31.5	20.7
486268 2013 CR_{15}	16.4	X	23.48204	118.34030	327.83085	21.49075	0.0471312	0.22482916	2.6785574	21	—	—
486269 2013 CN_{18}	17.4	X	20.08065	116.11170	42.59706	3.61999	0.1063061	0.24179002	2.5517834	21	2 10.3	20.1
486270 2013 CF_{19}	18.0	X	36.66254	13.02941	123.51896	3.71943	0.1146710	0.24125410	2.5555610	21	2 6.8	20.5
486271 2013 CK_{19}	17.7	X	30.91080	124.91172	99.78934	7.70037	0.1538576	0.27212315	2.3584448	21	6 8.2	19.6
486272 2013 CH_{31}	17.3	X	80.52434	312.59398	114.92814	6.49496	0.1862010	0.24167970	2.5525599	21	1 26.9	19.7
486273 2013 CG_{32}	16.0	X	22.69547	181.43912	140.27814	16.16963	0.0466820	0.17912107	3.1167712	21	9 30.4	20.4
486274 2013 CL_{33}	17.3	X	123.35246	203.40088	252.89635	5.96361	0.1857764	0.26470253	2.4023189	21	4 30.8	20.7
486275 2013 CQ_{37}	16.8	X	4.93692	210.25607	267.67474	12.72805	0.1994252	0.23073284	2.6326701	21	—	—
486276 2013 CQ_{38}	16.3	X	70.72295	100.77562	323.62840	21.70305	0.0704837	0.23403607	2.6078394	21	—	—
486277 2013 CK_{39}	17.0	X	80.86989	99.16351	330.26651	21.59556	0.0261720	0.23851584	2.5750830	21	1 16.7	20.6
486278 2013 CN_{41}	17.5	X	133.94421	267.78497	146.04605	2.99412	0.1683577	0.25838014	2.4413495	21	3 18.3	20.8
486279 2013 CP_{45}	18.2	X	64.16968	72.45999	1.65479	2.97559	0.1738235	0.23834070	2.5763443	21	1 4.7	20.7
486280 2013 CV_{47}	17.0	X	96.66384	291.37867	136.48775	8.48970	0.0617535	0.24049316	2.5609488	21	2 3.3	20.2
486281 2013 CY_{47}	16.9	X	43.69567	124.53469	333.06028	29.39426	0.2252026	0.23725947	2.5841656	21	1 6.7	19.7
486282 2013 CM_{48}	17.5	X	342.35855	350.56068	251.48370	5.81193	0.1418308	0.25456925	2.4656538	21	3 23.9	20.3
486283 2013 CX_{51}	17.9	X	319.49919	104.19168	106.89249	2.38627	0.1312213	0.23926231	2.5697242	21	1 14.9	21.4
486284 2013 CC_{53}	17.2	X	12.84417	262.25886	326.13162	5.68144	0.0625784	0.26454186	2.4032915	21	5 2.6	20.0
486285 2013 CT_{53}	17.0	X	80.94842	37.31115	150.96059	7.28756	0.0493221	0.27280425	2.3545177	21	6 23.3	20.0
486286 2013 CQ_{54}	18.0	X	71.04273	207.44985	208.41348	4.59796	0.2691452	0.23948683	2.5681179	21	1 2.5	20.0
486287 2013 CY_{54}	16.8	X	320.15849	178.92020	7.69397	7.20091	0.1243322	0.22811701	2.6527578	21	—	—
486288 2013 CD_{56}	17.1	X	104.81684	260.25630	143.54252	14.86220	0.1132497	0.24008174	2.5638737	21	1 20.9	20.4
486289 2013 CU_{60}	17.7	X	306.57165	112.79971	133.28956	6.12429	0.1205525	0.24567405	2.5248167	21	2 13.2	21.1
486290 2013 CF_{61}	17.2	X	356.61823	335.45046	112.42675	11.32572	0.0832141	0.21848189	2.7301871	21	—	—
486291 2013 CJ_{66}	17.2	X	51.85718	86.03795	321.46086	9.68024	0.1593322	0.22456090	2.6806902	21	—	—
486292 2013 CF_{68}	17.7	X	134.75686	114.94417	300.34435	8.04855	0.2174087	0.25756389	2.4465047	21	3 21.7	21.5
486293 2013 CO_{70}	17.4	X	16.03025	196.69205	286.82079	2.08897	0.1168914	0.23257820	2.6187259	21	—	—
486294 2013 CX_{71}	17.7	X	123.77642	277.66482	145.30647	5.99312	0.1710925	0.25727958	2.4483068	21	3 19.8	21.0
486295 2013 CV_{73}	17.7	X	50.13964	125.60720	313.29249	8.65059	0.1151123	0.23731663	2.5837507	21	—	—
486296 2013 CL_{74}	17.7	X	111.99117	214.49581	252.13971	3.58457	0.1747280	0.26183375	2.4198343	21	4 30.6	20.9
486297 2013 CD_{75}	17.7	X	328.65341	19.88556	183.06275	3.30367	0.1232082	0.23821550	2.5772470	21	1 17.1	20.9
486298 2013 CC_{76}	17.9	X	95.57259	246.77481	256.23788	3.66835	0.1204407	0.26642873	2.3919311	21	5 21.5	20.8
486299 2013 CH_{76}	17.3	X	318.07571	197.60599	341.53117	2.23731	0.1057310	0.22892748	2.6464931	21	—	—
486300 2013 CG_{77}	16.8	X	56.58555	293.90412	157.63835	22.38272	0.0525082	0.23423792	2.6063410	21	1 8.5	20.4
486301 2013 CF_{78}	17.4	X	134.53412	280.11499	161.42337	8.80461	0.1488658	0.26215817	2.4178375	21	4 23.5	20.9
486302 2013 CQ_{80}	16.6	X	99.04935	323.37689	59.06236	17.98375	0.1706067	0.23827183	2.5768408	21	—	—
486303 2013 CP_{81}	17.0	X	245.15024	24.04561	253.76965	7.06388	0.1397913	0.23519987	2.5992297	21	1 16.2	21.1
486304 2013 CG_{84}	17.2	X	288.72746	102.41184	141.70195	12.82960	0.0577913	0.23754404	2.5821014	21	1 28.9	20.7
486305 2013 CL_{84}	17.2	X	355.65272	91.10012	36.12335	3.42284	0.1316505	0.22466440	2.6798668	21	—	—
486306 2013 CW_{89}	17.2	X	49.23114	41.83321	138.21235	12.54332	0.2287580	0.25588817	2.4571740	21	5 22.5	19.7
486307 2013 CL_{92}	17.7	X	5.63948	76.55518	148.53402	3.88156	0.1536505	0.25764248	2.4460072	21	4 15.7	20.0
486308 2013 CL_{94}	17.1	X	341.75552	289.19417	171.26140	4.39829	0.0688393	0.21625322	2.7489130	21	—	—
486309 2013 CE_{97}	16.8	X	81.74219	265.01759	145.83642	15.44150	0.0791287	0.23343531	2.6123118	21	—	—
486310 2013 CM_{98}	17.3	X	287.22554	98.43991	145.18301	14.68132	0.1579666	0.23671243	2.5881454	21	1 14.8	21.4
486311 2013 CE_{101}	16.8	X	284.72025	289.26597	309.14869	3.57498	0.1478534	0.23461444	2.6035518	21	1 8.2	20.5
486312 2013 CF_{103}	16.2	X	98.21650	152.55654	121.22118	11.00590	0.0767461	0.18951182	3.0017777	21	11 9.1	20.8
486313 2013 CZ_{109}	17.0	X	167.79830	221.69039	100.94294	7.11114	0.0834163	0.22940556	2.6428149	21	—	—
486314 2013 CF_{110}	17.2	X	16.68833	66.10151	78.63482	5.23790	0.1453177	0.24005402	2.5640711	21	1 11.8	19.8
486315 2013 CV_{110}	17.7	X	348.72500	203.91874	33.60847	5.08349	0.1517432	0.25523975	2.4613338	21	3 31.9	20.1
486316 2013 CD_{111}	17.5	X	187.24919	22.27514	353.02807	8.17316	0.1444875	0.25854461	2.4403140	21	3 20.0	21.2
486317 2013 CZ_{111}	17.7	X	78.32095	86.09951	332.03536	6.88791	0.1858063	0.23854091	2.5749025	21	1 11.5	20.3
486318 2013 CU_{113}	17.2	X	220.99044	186.78971	148.49887	7.24474	0.1679330	0.26202381	2.4186640	21	3 2.6	21.0
486319 2013 CU_{114}	17.2	X	129.40496	51.92938	33.36978	15.39840	0.0742317	0.26097680	2.4251286	21	4 12.5	20.4
486320 2013 CO_{115}	18.0	X	137.60570	316.17363	81.92212	2.68055	0.1858397	0.25849809	2.4406068	21	3 4.7	21.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
486321 2013 CQ_{118}	17.8	X	317.89199	252.78876	329.11176	8.58427	0.1588257	0.23900268	2.5715849	21	1 24.1	21.3
486322 2013 CV_{122}	17.6	X	108.55120	112.31745	358.43000	10.46514	0.2025129	0.26085124	2.4259068	21	5 2.8	21.1
486323 2013 CR_{125}	17.6	X	357.12235	126.99740	33.29866	9.42334	0.1011070	0.23813528	2.5778257	21	1 7.1	20.8
486324 2013 CN_{127}	16.8	X	337.55505	69.06596	95.09611	10.37722	0.0585789	0.22804082	2.6533487	21	—	—
486325 2013 CO_{127}	16.8	X	282.38364	128.97766	97.78750	11.76013	0.1064772	0.22716269	2.6601822	21	—	—
486326 2013 CB_{135}	17.8	X	9.54606	129.76267	350.98772	12.50718	0.1391680	0.22931212	2.6435328	21	—	—
486327 2013 CL_{143}	17.8	X	49.09280	155.73486	305.87134	2.54669	0.1375481	0.23826942	2.5768581	21	1 12.2	20.3
486328 2013 CV_{143}	16.7	X	175.87496	27.00279	328.80128	17.30394	0.0615428	0.24145182	2.5541656	21	2 11.0	20.3
486329 2013 CR_{146}	17.2	X	50.56862	282.39956	138.45004	14.55416	0.1587854	0.22682892	2.6627911	21	—	—
486330 2013 CS_{147}	17.0	X	329.14076	53.86509	141.10548	8.77690	0.0318228	0.23745481	2.5827482	21	1 21.2	20.4
486331 2013 CC_{149}	17.9	X	0.14929	56.83715	107.08649	3.81549	0.0855230	0.23701065	2.5859740	21	1 17.7	20.8
486332 2013 CP_{149}	17.4	X	272.67030	185.25662	62.21316	3.40632	0.1800530	0.22862869	2.6487984	21	1 5.5	21.7
486333 2013 CZ_{151}	16.7	X	237.96767	180.34404	129.69953	8.73340	0.1680932	0.24399288	2.5364012	21	2 17.3	20.7
486334 2013 CV_{152}	16.8	X	226.57882	284.90764	354.89865	13.23976	0.0898436	0.23014098	2.6371819	21	1 6.7	21.0
486335 2013 CP_{156}	17.5	X	132.12234	263.98611	118.51636	3.99808	0.0497944	0.23549691	2.5970436	21	1 21.8	20.9
486336 2013 CO_{159}	17.4	X	349.44983	14.82893	146.05900	8.05004	0.1262762	0.23263109	2.6183289	21	—	—
486337 2013 CL_{160}	18.0	X	335.71310	59.39998	150.32568	8.45353	0.0849878	0.24148434	2.5539363	21	2 10.1	21.1
486338 2013 CE_{161}	17.7	X	342.73622	225.34593	345.62067	9.15831	0.1212950	0.24294879	2.5436629	21	2 18.8	20.6
486339 2013 CF_{161}	17.4	X	311.40780	145.46559	30.60664	1.50242	0.0373280	0.22396818	2.6854177	21	—	—
486340 2013 CW_{162}	17.3	X	306.50072	51.32538	160.43172	15.50289	0.1167211	0.23038424	2.6353251	21	1 3.3	21.3
486341 2013 CV_{164}	17.2	X	278.69283	105.93319	151.11671	4.77352	0.0365161	0.23990327	2.5651451	21	2 4.6	20.8
486342 2013 CH_{170}	17.5	X	129.30804	151.45807	324.26919	5.63780	0.0669446	0.26649328	2.3915449	21	5 18.8	20.7
486343 2013 CP_{170}	17.0	X	302.22583	290.75989	180.12112	5.61553	0.0336383	0.20257056	2.8713436	21	12 17.1	20.9
486344 2013 CE_{172}	17.0	X	99.53582	261.47639	160.82989	13.90221	0.0242069	0.23785730	2.5798338	21	1 24.9	20.6
486345 2013 CG_{175}	17.3	X	328.32934	238.01920	335.80821	11.33728	0.1401849	0.23819900	2.5773660	21	1 31.4	20.6
486346 2013 CL_{175}	17.7	X	345.33489	225.21915	317.50223	4.79970	0.1950180	0.23531106	2.5984108	21	1 5.2	20.8
486347 2013 CY_{175}	17.3	X	262.76498	315.14048	340.10852	9.89855	0.0966395	0.24473931	2.5312414	21	2 27.6	20.8
486348 2013 CQ_{176}	18.2	X	37.90267	311.32858	185.27360	6.58623	0.2136594	0.24380470	2.5377062	21	2 7.0	20.2
486349 2013 CJ_{179}	17.3	X	88.94090	290.33217	130.96233	13.07405	0.2401665	0.24377191	2.5379337	21	2 10.3	19.9
486350 2013 CT_{180}	16.9	X	72.02046	127.59667	303.26726	7.89190	0.1432196	0.23903172	2.5713766	21	1 11.6	19.5
486351 2013 CB_{181}	17.0	X	341.88450	269.76865	292.59528	7.07578	0.0869569	0.24253815	2.5465332	21	2 7.5	20.0
486352 2013 CJ_{181}	17.4	X	337.89323	128.14234	68.05934	8.46235	0.1605413	0.23855266	2.5748181	21	1 17.3	20.6
486353 2013 CB_{183}	17.2	X	18.60000	175.55020	315.39905	8.95618	0.1436554	0.23725074	2.5842290	21	—	—
486354 2013 CJ_{190}	17.1	X	358.65121	225.86926	304.83677	8.93069	0.1088467	0.24026801	2.5625484	21	1 20.9	20.0
486355 2013 CF_{193}	17.1	X	63.51251	281.85311	161.80366	12.11104	0.1340183	0.23699872	2.5860607	21	1 12.3	20.1
486356 2013 CD_{195}	18.2	X	31.75112	51.96230	129.00340	3.02263	0.1231701	0.25410099	2.4686819	21	4 2.0	20.6
486357 2013 CN_{195}	17.3	X	278.74323	285.97146	334.08870	14.21386	0.0779253	0.24224647	2.5485769	21	2 6.0	20.8
486358 2013 CQ_{196}	16.7	X	14.04355	230.95740	128.76715	13.39906	0.0200750	0.19177488	2.9781157	21	11 5.8	21.0
486359 2013 CB_{201}	17.6	X	325.83683	218.21720	352.03231	3.87576	0.0892807	0.24214987	2.5492546	21	1 28.8	20.7
486360 2013 CJ_{211}	17.0	X	35.26946	288.11542	124.72339	14.91663	0.1251359	0.22583953	2.6705625	21	—	—
486361 2013 CT_{211}	17.8	X	14.68898	144.85807	88.66601	2.48363	0.1404885	0.26359927	2.4090173	21	5 17.3	19.7
486362 2013 CA_{214}	18.3	X	58.85467	252.99334	209.50758	1.60451	0.1439347	0.24365040	2.5387775	21	1 29.9	20.7
486363 2013 CR_{214}	18.1	X	33.20469	24.82326	199.66998	3.25004	0.1652585	0.26432311	2.4046172	21	6 14.1	20.2
486364 2013 CX_{214}	17.2	X	309.62719	256.91480	315.13292	14.03521	0.0808339	0.23644574	2.5900911	21	1 13.5	20.8
486365 2013 DZ_{1}	16.9	X	173.13332	214.18260	133.75459	14.12141	0.0177837	0.23946532	2.5682717	21	1 23.4	20.4
486366 2013 DP_{2}	18.1	X	18.79146	139.97155	2.05899	4.44365	0.1585499	0.23920903	2.5701058	21	1 11.5	20.7
486367 2013 DL_{3}	17.3	X	233.19519	308.32524	320.82156	3.82916	0.1049554	0.22873762	2.6479574	21	—	—
486368 2013 DJ_{4}	17.1	X	82.09533	61.20056	326.58945	5.71902	0.0508432	0.22346949	2.6894113	21	—	—
486369 2013 DX_{5}	16.8	X	311.73403	185.57800	16.58097	8.65371	0.1382789	0.22891905	2.6465580	21	—	—
486370 2013 DF_{7}	17.4	X	355.00128	102.81557	135.49143	9.66623	0.1409747	0.25293861	2.4762394	21	4 19.4	20.0
486371 2013 DB_{11}	18.6	X	17.70183	157.90895	348.42693	10.94006	0.1830796	0.24128360	2.5553527	21	1 14.4	21.2
486372 2013 DQ_{15}	17.3	X	22.16484	126.42145	310.98549	13.33782	0.0806712	0.22085010	2.7106347	21	—	—
486373 2013 EJ_{4}	17.6	X	48.70823	297.63303	174.08963	11.52689	0.0661555	0.23751358	2.5823222	21	1 21.4	20.9
486374 2013 EL_{7}	17.3	X	88.21850	37.58037	341.58112	5.69081	0.0463723	0.21911049	2.7249630	21	—	—
486375 2013 EE_{9}	17.5	X	49.84183	281.33517	187.88819	4.43091	0.1028344	0.23819678	2.5773820	21	1 21.7	20.4
486376 2013 EZ_{10}	16.7	X	243.37783	103.14450	206.83079	8.71510	0.1715248	0.24540961	2.5266301	21	2 17.9	20.9
486377 2013 EH_{11}	16.4	X	48.46233	302.72359	158.36124	31.19500	0.2698067	0.23442323	2.6049674	21	1 17.6	18.9
486378 2013 EZ_{15}	18.1	X	18.74069	106.45711	76.66334	2.79161	0.1204679	0.24692396	2.5162892	21	3 12.9	20.6
486379 2013 ED_{16}	17.5	X	9.89630	122.08425	18.66301	4.72577	0.1593237	0.23354380	2.6115027	21	—	—
486380 2013 EF_{18}	16.7	X	327.19221	349.86472	160.91211	10.01850	0.1458585	0.21823242	2.7322674	21	—	—
486381 2013 EA_{20}	17.0	X	294.30565	218.65371	6.80673	7.75860	0.1562826	0.22726372	2.6593938	21	1 3.6	21.1
486382 2013 EH_{21}	17.1	X	235.67225	295.04589	318.62748	5.60094	0.0582460	0.22782305	2.6550392	21	—	—
486383 2013 EY_{21}	17.4	X	347.63388	163.84406	344.78735	11.87755	0.0774640	0.22661118	2.6644965	21	—	—
486384 2013 EP_{22}	17.8	X	73.49535	240.58465	194.68761	2.99712	0.2540540	0.23973105	2.5663735	21	2 3.4	20.2
486385 2013 EA_{27}	16.7	X	316.20213	6.42181	86.43031	3.22836	0.0600017	0.19680599	2.9271424	21	12 10.9	20.5
486386 2013 EN_{29}	17.8	X	311.33388	200.59501	25.24134	3.02721	0.1829118	0.23380000	2.6095946	21	1 18.0	21.3
486387 2013 ES_{29}	16.5	X	289.62439	240.96946	13.57947	11.82490	0.1530585	0.23972304	2.5664306	21	2 5.2	20.4
486388 2013 EK_{31}	17.8	X	356.55450	55.69609	137.41368	5.80403	0.1732259	0.23874955	2.5734023	21	2 9.1	20.4
486389 2013 EA_{32}	15.9	X	130.41677	82.34690	171.25207	26.87147	0.1411426	0.18136240	3.0910394	21	11 20.4	21.3
486390 2013 EL_{32}	17.1	X	287.40233	92.84773	169.29117	12.97087	0.2551542	0.23163220	2.6258511	21	1 27.1	21.4
486391 2013 EL_{34}	17.6	X	28.86981	35.38223	82.28775	3.47234	0.1612144	0.23280519	2.6170234	21	—	—
486392 2013 EP_{35}	16.8	X	301.24649	15.43543	121.28262	14.20704	0.1736211	0.21075464	2.7965201	21	—	—
486393 2013 EC_{36}	17.5	X	25.68767	316.97876	156.73792	6.53086	0.2543141	0.23211733	2.6221911	21	—	—
486394 2013 EO_{39}	17.6	X	35.76267	116.11509	30.16366	7.49099	0.0798884	0.24095697	2.5576614	21	2 22.1	20.6
486395 2013 EV_{41}	17.8	X	24.50795	307.42213	192.66539	4.65970	0.0399439	0.23579541	2.5948514	21	1 24.5	21.2
486396 2013 EO_{42}	17.9	X	35.19375	313.90220	178.98378	9.01573	0.1073469	0.23864262	2.5741709	21	1 28.4	20.8
486397 2013 EH_{46}	17.4	X	55.37651	262.28361	181.36255	2.57123	0.1125348	0.23059395	2.6337271	21	—	—
486398 2013 EC_{49}	17.5	X	66.76840	114.62796	323.17262	2.07084	0.1555906	0.23358477	2.6111974	21	1 14.6	20.2
486399 2013 EW_{56}	17.3	X	51.02100	259.24827	163.83025	4.86401	0.1040651	0.22175891	2.7032238	21	—	—
486400 2013 EP_{67}	17.4	X	39.41028	6.29839	115.77095	4.88906	0.0849213	0.23179641	2.6246108	21	1 24.7	20.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
486401 2013 EX_{70}	17.4	X	46.95150	266.33660	162.90871	6.92759	0.1520306	0.22659189	2.6646478	21	—	—
486402 2013 ED_{71}	17.2	X	323.09675	136.27678	163.55951	11.98234	0.2664981	0.26129311	2.4231711	21	4 29.1	19.9
486403 2013 EN_{74}	17.6	X	55.18511	287.87523	129.01958	3.48103	0.0907991	0.22168121	2.7038554	21	—	—
486404 2013 EU_{80}	17.0	X	127.20682	231.29096	144.70822	10.88240	0.0234564	0.22785739	2.6547724	21	1 4.8	20.7
486405 2013 EY_{83}	17.0	X	212.85173	139.06476	139.30541	9.21401	0.1800454	0.21392817	2.7687946	21	—	—
486406 2013 EZ_{83}	17.0	X	258.51992	180.68573	121.19124	6.06290	0.1247856	0.23933918	2.5691740	21	3 3.1	20.8
486407 2013 EU_{89}	16.1	X	25.59222	35.30215	142.85801	27.86204	0.2606097	0.23817521	2.5775376	21	3 25.4	18.3
486408 2013 ES_{91}	16.4	X	312.98360	257.46516	324.53385	8.97937	0.0856863	0.23488384	2.6015607	21	1 29.2	19.8
486409 2013 EP_{92}	16.9	X	348.49494	280.32322	218.86831	12.55625	0.2620249	0.22593113	2.6698406	21	—	—
486410 2013 EY_{94}	17.0	X	55.46334	57.00337	355.87329	13.36451	0.0385256	0.21605841	2.7505651	21	—	—
486411 2013 EQ_{103}	17.5	X	336.74282	102.10166	134.06167	12.15821	0.2676785	0.24192756	2.5508161	21	2 20.2	20.3
486412 2013 EE_{105}	17.5	X	152.75329	264.67978	155.61741	7.66044	0.0951769	0.26123511	2.4235297	21	4 10.1	20.9
486413 2013 ES_{106}	17.1	X	318.91829	199.72811	27.14805	12.91192	0.2016498	0.23249552	2.6193467	21	1 30.2	20.8
486414 2013 EL_{108}	17.3	X	251.59683	328.79963	311.19681	2.19397	0.2051606	0.23267319	2.6180131	21	1 23.2	21.7
486415 2013 EW_{110}	17.0	X	33.58261	24.49147	67.87234	8.12307	0.1182613	0.22483347	2.6785231	21	—	—
486416 2013 EZ_{110}	16.8	X	239.47025	233.12329	56.31968	9.43630	0.0610615	0.23117320	2.6293257	21	2 2.4	20.7
486417 2013 ER_{111}	16.8	X	351.07843	72.93174	35.17364	11.52072	0.1224730	0.21241859	2.7818969	21	—	—
486418 2013 EG_{113}	16.4	X	261.50157	142.68703	93.48810	13.66736	0.0449677	0.21990498	2.7183957	21	—	—
486419 2013 EK_{114}	17.7	X	277.52531	153.22227	97.08710	5.27449	0.1327623	0.23018625	2.6368361	21	1 17.7	21.5
486420 2013 EY_{114}	17.6	X	317.11775	141.95186	127.65620	5.71287	0.1920094	0.24320084	2.5419051	21	3 21.7	20.7
486421 2013 EV_{116}	17.2	X	92.49146	27.61471	17.09460	12.87203	0.1382757	0.22813432	2.6526236	21	1 14.9	20.7
486422 2013 EX_{117}	17.5	X	354.66674	18.92573	121.85262	3.22183	0.0247702	0.22657223	2.6648019	21	—	—
486423 2013 EM_{120}	16.4	X	285.05588	241.59649	3.37104	14.42834	0.2170560	0.22557587	2.6726430	21	1 14.5	20.9
486424 2013 EG_{127}	17.8	X	334.69014	20.56381	180.77835	4.91308	0.2198327	0.23733952	2.5835846	21	1 8.6	21.0
486425 2013 FU	17.7	X	326.60694	255.11856	328.78149	4.68247	0.2632875	0.23689835	2.5867911	21	1 21.9	21.1
486426 2013 FJ_{1}	16.8	X	233.94659	265.34930	7.56528	8.93748	0.2444304	0.21270346	2.7794126	21	1 3.9	21.8
486427 2013 FY_{1}	16.8	X	228.69738	164.54924	135.64483	10.89648	0.0913756	0.23395079	2.6084732	21	1 30.2	20.7
486428 2013 FU_{4}	17.0	X	258.63058	223.92049	11.64111	13.18278	0.0876437	0.21773096	2.7364610	21	—	—
486429 2013 FR_{6}	17.8	X	40.58920	84.01044	76.10211	8.14421	0.1346043	0.24632368	2.5203756	21	3 24.7	20.4
486430 2013 FX_{6}	17.2	X	28.14922	319.71578	132.54783	12.89048	0.0661782	0.22071321	2.7117553	21	—	—
486431 2013 FN_{7}	16.4	X	218.98345	128.80491	144.41203	25.45560	0.0819597	0.21638040	2.7478357	21	—	—
486432 2013 FO_{8}	17.8	X	318.06491	69.76550	129.13907	13.33469	0.1989755	0.22851052	2.6497115	21	—	—
486433 2013 FO_{9}	17.1	X	248.11472	279.36113	7.94723	12.79066	0.2173290	0.22626250	2.6672332	21	2 2.6	21.8
486434 2013 FT_{10}	16.3	X	256.35781	66.36411	98.20564	11.52207	0.0837624	0.20031358	2.8928714	21	12 17.1	20.2
486435 2013 FS_{16}	17.6	X	328.43432	57.33843	168.17267	13.21928	0.2249880	0.23339056	2.6126457	21	1 30.3	21.1
486436 2013 FB_{17}	17.1	X	233.44950	212.58316	58.55639	4.23340	0.1574239	0.21721473	2.7407949	21	1 1.7	21.6
486437 2013 FW_{18}	17.0	X	351.80950	150.26322	47.56256	14.50010	0.1057564	0.23558063	2.5964283	21	2 25.6	20.4
486438 2013 FC_{19}	17.2	X	345.17289	172.46447	19.98658	4.35728	0.1716651	0.23422939	2.6064044	21	1 22.8	20.3
486439 2013 FC_{20}	17.4	X	278.87495	76.55860	181.61993	16.91279	0.2180006	0.22707472	2.6608692	21	1 18.2	21.9
486440 2013 FL_{21}	16.8	X	202.31067	106.91235	185.32490	11.49093	0.1840127	0.21158222	2.7892232	21	—	—
486441 2013 FY_{22}	17.9	X	341.75893	110.73127	52.63729	1.67617	0.1225663	0.22600299	2.6692746	21	—	—
486442 2013 FX_{23}	16.8	X	255.32234	267.25371	7.10498	16.51345	0.2240377	0.22402265	2.6849823	21	1 25.2	21.6
486443 2013 FA_{24}	17.2	X	83.15331	83.58774	7.17102	5.89651	0.0631419	0.23603326	2.5931079	21	2 17.7	20.4
486444 2013 FC_{24}	17.5	X	343.80569	168.31934	358.14218	1.90258	0.1356489	0.22757058	2.6570026	21	—	—
486445 2013 FJ_{24}	17.6	X	30.52583	309.59746	198.72433	9.21636	0.1437809	0.23841909	2.5757796	21	2 9.2	20.3
486446 2013 FO_{24}	17.1	X	342.22050	330.72674	191.35449	12.40941	0.1271002	0.22480866	2.6787203	21	—	—
486447 2013 GF_{2}	16.8	X	286.72090	181.39698	20.05050	8.04101	0.1519676	0.21458821	2.7631140	21	—	—
486448 2013 GN_{6}	16.7	X	5.09204	179.19017	9.86482	14.29546	0.1193250	0.23809246	2.5781348	21	3 2.5	19.6
486449 2013 GL_{7}	16.9	X	286.44037	151.90769	90.90862	14.91404	0.2211559	0.22594494	2.6697318	21	1 9.3	21.1
486450 2013 GR_{9}	17.2	X	335.84065	120.90425	24.01809	12.72438	0.1435707	0.21947993	2.7219042	21	—	—
486451 2013 GA_{10}	16.2	X	221.89765	76.61392	49.93686	7.02932	0.0853230	0.17493097	3.1663451	21	9 20.1	21.0
486452 2013 GP_{10}	17.1	X	305.12927	286.00438	11.13029	14.22242	0.1315685	0.25222826	2.4808864	21	4 14.8	20.3
486453 2013 GY_{14}	16.7	X	10.45612	64.08691	357.57108	6.03477	0.0451988	0.20207696	2.8760175	21	—	—
486454 2013 GX_{16}	17.6	X	293.91497	69.75186	147.41371	2.68556	0.1410556	0.22453172	2.6809224	21	—	—
486455 2013 GW_{17}	17.2	X	296.27317	259.77522	13.81032	15.45767	0.2221119	0.23589303	2.5941354	21	3 1.6	21.1
486456 2013 GO_{20}	17.0	X	327.61437	151.92913	47.13368	7.21625	0.1223525	0.22883879	2.6471768	21	1 14.9	20.6
486457 2013 GN_{26}	16.8	X	287.09730	149.26059	74.11751	7.57371	0.0886616	0.22193883	2.7017626	21	1 1.2	20.7
486458 2013 GY_{26}	16.5	X	180.41496	160.49501	105.75474	7.12995	0.0151607	0.20401673	2.8577585	21	—	—
486459 2013 GD_{28}	17.2	X	296.97199	164.56860	64.45794	13.75651	0.1511059	0.22843132	2.6503239	21	1 11.1	21.2
486460 2013 GQ_{31}	17.5	X	283.35447	271.92836	331.05534	1.12193	0.2249877	0.22310031	2.6923774	21	1 6.8	21.6
486461 2013 GX_{35}	16.9	X	51.05406	76.08701	19.66021	12.65471	0.1482814	0.22722479	2.6596975	21	1 14.9	19.9
486462 2013 GE_{36}	17.2	X	347.56844	206.97962	13.77268	7.31146	0.1698159	0.24000374	2.5644292	21	3 6.7	20.0
486463 2013 GL_{36}	17.5	X	318.97849	260.11873	326.62426	1.21846	0.0709520	0.23349356	2.6118773	21	2 13.5	21.0
486464 2013 GF_{38}	17.0	X	62.32376	298.66657	162.52206	3.94447	0.1177558	0.23231362	2.6207139	21	2 3.9	20.0
486465 2013 GH_{43}	17.5	X	303.99082	200.12882	42.85905	4.70482	0.1451831	0.23093687	2.6311192	21	2 6.7	21.1
486466 2013 GR_{43}	16.9	X	15.24173	116.53974	30.90953	14.65332	0.0983416	0.22840731	2.6505096	21	1 25.1	20.3
486467 2013 GB_{46}	16.4	X	148.03560	336.12676	67.01585	16.22512	0.0562907	0.23903399	2.5713603	21	3 18.8	20.3
486468 2013 GH_{49}	17.3	X	299.44532	226.68960	22.79668	13.05132	0.1456467	0.23170472	2.6253032	21	2 13.4	21.2
486469 2013 GR_{51}	17.8	X	290.31763	112.85966	143.64002	5.74102	0.2034259	0.22921193	2.6443031	21	1 30.2	21.7
486470 2013 GE_{52}	16.8	X	299.36155	43.58990	175.30496	14.40343	0.1273844	0.21977250	2.7194881	21	1 4.1	21.0
486471 2013 GK_{56}	17.2	X	38.83984	323.35798	154.50328	5.80172	0.1221148	0.23024321	2.6364011	21	1 17.6	19.9
486472 2013 GG_{59}	16.9	X	196.67093	294.05816	16.61518	14.29496	0.0543081	0.22121819	2.7076269	21	1 14.5	21.1
486473 2013 GB_{61}	17.9	X	330.74705	70.29918	154.01529	2.96213	0.1386429	0.23579436	2.5948591	21	2 15.8	20.8
486474 2013 GV_{61}	17.8	X	26.07092	350.08061	176.36405	3.60094	0.1571162	0.24020514	2.5629955	21	2 28.9	20.1
486475 2013 GV_{66}	16.7	X	23.16683	34.76343	71.03821	13.88238	0.1247999	0.22239803	2.6980424	21	—	—
486476 2013 GJ_{70}	16.8	X	295.63061	178.54305	35.45731	14.65670	0.1915136	0.22314056	2.6920536	21	—	—
486477 2013 GC_{71}	17.2	X	339.41443	355.60731	201.19889	11.63481	0.1093456	0.23077521	2.6323478	21	1 25.4	20.8
486478 2013 GE_{72}	17.5	X	257.63157	76.79060	196.76125	6.90385	0.3140784	0.21781635	2.7357458	21	1 15.4	22.6
486479 2013 GT_{72}	16.9	X	27.56197	147.17277	31.49205	5.80460	0.1017178	0.23991258	2.5650787	21	3 24.4	19.7
486480 2013 GK_{74}	17.9	X	355.64001	63.26242	122.63424	6.03695	0.1784192	0.23561317	2.5961892	21	1 28.6	20.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
486481 2013 GS_{74}	16.7	X	305.79464	23.06654	202.37211	13.56272	0.1987050	0.22378418	2.6868894	21	1 8.1	20.9
486482 2013 GF_{77}	16.8	X	348.47467	1.57424	186.40985	13.52871	0.1765493	0.22928833	2.6437157	21	1 18.5	20.1
486483 2013 GE_{81}	17.0	X	252.11164	210.37109	30.15476	4.51275	0.1527435	0.21171820	2.7880288	21	—	—
486484 2013 GU_{81}	16.6	X	328.40023	168.03866	61.29024	14.80875	0.1952926	0.23042997	2.6349765	21	2 18.6	20.2
486485 2013 GD_{82}	16.7	X	289.13702	299.50830	258.02525	7.11596	0.1986844	0.21310803	2.7758938	21	—	—
486486 2013 GU_{82}	16.1	X	151.94582	190.84731	91.63240	7.74991	0.1333355	0.18380684	3.0635733	21	—	—
486487 2013 GP_{83}	17.0	X	281.83594	173.74414	59.40585	10.83599	0.1779693	0.21663662	2.7456688	21	—	—
486488 2013 GF_{85}	16.6	X	311.05506	133.05582	81.43489	13.53533	0.1195298	0.22569913	2.6716699	21	1 13.8	20.4
486489 2013 GC_{92}	16.1	X	0.21985	302.62702	270.40195	11.79059	0.1264778	0.24140728	2.5544798	21	3 13.7	19.2
486490 2013 GH_{93}	17.1	X	273.13442	31.49202	198.67553	0.99037	0.1498427	0.22043601	2.7140282	21	—	—
486491 2013 GU_{93}	17.4	X	353.88581	153.53785	26.25944	5.60335	0.0930970	0.23189393	2.6238750	21	1 31.7	20.6
486492 2013 GY_{93}	16.7	X	13.39979	108.10080	20.23474	13.09643	0.1299455	0.22435642	2.6823187	21	—	—
486493 2013 GN_{95}	16.7	X	10.91864	113.69268	43.92779	13.22514	0.1094381	0.22923409	2.6441327	21	1 30.4	20.0
486494 2013 GS_{96}	17.4	X	8.28830	66.26526	158.75726	5.26051	0.1879905	0.24276063	2.5449771	21	4 22.4	19.5
486495 2013 GW_{96}	16.4	X	312.00826	9.16781	179.58992	25.74914	0.0892236	0.21786529	2.7353361	21	—	—
486496 2013 GA_{97}	17.3	X	337.74285	187.14803	29.60235	13.56955	0.1179711	0.23567568	2.5957301	21	2 26.6	20.6
486497 2013 GH_{98}	16.6	X	65.11185	66.53840	26.26789	22.46095	0.0636326	0.22699574	2.6614864	21	2 4.9	20.4
486498 2013 GX_{98}	17.1	X	306.00520	174.06931	32.64774	12.74591	0.1457667	0.22200321	2.7012402	21	—	—
486499 2013 GB_{99}	16.5	X	251.70170	161.81248	102.76890	15.99818	0.2084983	0.21402276	2.7679787	21	1 7.7	21.0
486500 2013 GH_{100}	16.0	X	89.99541	84.22815	32.91583	22.24629	0.0932351	0.24161901	2.5529873	21	4 10.4	19.2
486501 2013 GZ_{100}	17.2	X	329.85399	141.83208	77.72436	3.40862	0.1426373	0.23138213	2.6277427	21	2 9.9	20.4
486502 2013 GC_{101}	16.5	X	248.24828	214.90726	53.03734	15.75715	0.1323143	0.21737764	2.7394253	21	1 13.6	21.1
486503 2013 GP_{103}	17.4	X	328.51259	348.03767	252.94659	3.20356	0.1259141	0.24101544	2.5572478	21	3 6.2	20.6
486504 2013 GN_{104}	17.6	X	346.69767	267.59212	290.72713	3.89094	0.1613995	0.23564477	2.5959571	21	2 1.3	20.6
486505 2013 GL_{106}	16.7	X	116.51471	252.28736	181.98588	28.07774	0.0819234	0.24138576	2.5546316	21	3 12.3	20.2
486506 2013 GB_{109}	17.2	X	338.58041	222.71443	9.11131	13.26461	0.2234185	0.23741996	2.5830009	21	3 1.3	20.1
486507 2013 GW_{110}	16.6	X	241.60652	188.66582	78.81998	9.33197	0.1838095	0.21251690	2.7810390	21	1 4.3	21.3
486508 2013 GA_{111}	16.6	X	351.60583	139.65750	51.97742	15.60478	0.0672970	0.23109522	2.6299172	21	2 22.6	20.2
486509 2013 GW_{113}	16.6	X	279.34208	325.40952	253.46982	6.85905	0.1608404	0.21524531	2.7574877	21	—	—
486510 2013 GO_{114}	16.4	X	211.36129	145.72303	85.66345	13.36312	0.0557267	0.20164791	2.8800956	21	—	—
486511 2013 GW_{114}	17.1	X	332.90476	171.71786	64.58884	8.75731	0.1444481	0.24131085	2.5551603	21	3 10.6	20.2
486512 2013 GX_{115}	17.3	X	283.94475	124.34747	54.24563	1.13021	0.0112567	0.21048249	2.7989302	21	—	—
486513 2013 GW_{118}	17.3	X	278.09006	210.87576	3.74372	3.97530	0.0217916	0.21647371	2.7470460	21	—	—
486514 2013 GD_{122}	18.0	X	15.57259	282.56276	208.73729	11.24401	0.2364997	0.22853810	2.6494983	21	—	—
486515 2013 GZ_{122}	16.0	X	94.66591	297.43262	29.80208	10.66011	0.1152692	0.18655027	3.0334637	21	—	—
486516 2013 GW_{123}	16.3	X	198.37113	207.43559	74.54606	11.54167	0.1464335	0.21071380	2.7968814	21	—	—
486517 2013 GT_{124}	17.8	X	341.99590	352.02726	196.44858	3.89079	0.1219456	0.22878954	2.6475567	21	1 19.1	21.0
486518 2013 GN_{126}	17.4	X	275.42851	26.74025	218.52015	8.46753	0.1010592	0.22103062	2.7091585	21	1 12.0	21.5
486519 2013 GA_{127}	16.3	X	13.66335	4.92387	63.51320	12.89631	0.0269633	0.19697439	2.9254738	21	—	—
486520 2013 GH_{130}	16.9	X	13.79805	89.99088	80.17197	6.39601	0.1318503	0.23405649	2.6076878	21	2 16.7	19.7
486521 2013 GN_{130}	16.8	X	320.84820	13.71672	228.56381	13.59656	0.1892601	0.23315503	2.6144049	21	2 12.5	20.6
486522 2013 HN_{2}	16.2	X	131.67700	195.60064	100.20129	10.71015	0.0838420	0.19001654	2.9964597	21	—	—
486523 2013 HE_{4}	17.3	X	15.45086	48.89708	89.68449	6.62558	0.1825675	0.22888005	2.6468587	21	—	—
486524 2013 HX_{4}	17.3	X	346.41718	84.25301	139.96566	13.67706	0.1064735	0.24171257	2.5523285	21	3 19.4	20.3
486525 2013 HU_{5}	17.0	X	294.31449	165.44181	73.77445	13.66514	0.1228351	0.22190025	2.7020758	21	1 26.9	21.0
486526 2013 HK_{6}	16.4	X	269.67723	89.70718	138.01058	13.65715	0.1627483	0.21181256	2.7872007	21	—	—
486527 2013 HO_{7}	16.4	X	321.59695	258.28411	2.77980	28.24739	0.3559800	0.23742124	2.5829917	21	3 1.2	20.1
486528 2013 HC_{8}	16.9	X	313.06952	10.39059	230.47094	12.94644	0.1132474	0.22903863	2.6456368	21	2 12.8	20.8
486529 2013 HU_{8}	17.3	X	286.21651	54.78641	138.50218	9.98593	0.1500981	0.21229976	2.7829349	21	—	—
486530 2013 HB_{10}	16.4	X	270.40241	234.05912	65.75639	25.41521	0.1311654	0.24250679	2.5467527	21	3 26.8	20.7
486531 2013 HT_{11}	16.6	X	323.93482	146.96785	118.88971	16.44349	0.1634959	0.24427333	2.5344594	21	4 6.1	20.0
486532 2013 HH_{13}	17.5	X	312.74069	105.06601	121.58785	5.40678	0.2205882	0.22744312	2.6579952	21	1 15.9	21.4
486533 2013 HO_{13}	16.8	X	91.21387	314.57707	170.49186	15.17858	0.0511193	0.24506974	2.5289656	21	4 14.1	20.1
486534 2013 HG_{14}	16.6	X	358.44458	142.08594	33.31142	13.10390	0.1079046	0.23075172	2.6325265	21	2 3.9	20.0
486535 2013 HM_{16}	17.0	X	17.25802	142.84763	41.49220	4.62804	0.0897621	0.23811562	2.5779676	21	3 15.4	19.9
486536 2013 HZ_{17}	17.7	X	4.12078	14.76243	137.93811	5.81542	0.2473669	0.22994936	2.6386467	21	—	—
486537 2013 HA_{19}	17.0	X	312.67140	193.62267	33.01971	15.64696	0.1723659	0.22754283	2.6572185	21	1 27.9	21.0
486538 2013 HB_{20}	16.3	X	53.36657	292.87457	149.29742	25.40070	0.1383761	0.21302346	2.7766284	21	1 2.8	19.9
486539 2013 HW_{21}	16.8	X	236.74856	200.99538	47.90450	14.83003	0.0333283	0.21183136	2.7870358	21	—	—
486540 2013 HX_{21}	16.4	X	310.99636	34.47789	95.13195	10.30582	0.0820533	0.20488281	2.8496993	21	—	—
486541 2013 HS_{24}	16.7	X	269.39017	11.17618	222.86948	13.88219	0.1694798	0.21466447	2.7624596	21	—	—
486542 2013 HT_{24}	17.2	X	26.09842	298.59952	224.51806	10.53033	0.1297668	0.23481987	2.6020331	21	2 21.5	20.2
486543 2013 HY_{29}	17.2	X	17.42632	153.22005	356.52485	10.72527	0.0997456	0.23045842	2.6347596	21	1 29.8	20.3
486544 2013 HB_{30}	16.9	X	76.36363	82.02341	349.82427	9.16943	0.0607340	0.22299263	2.6932441	21	1 17.2	20.4
486545 2013 HT_{32}	17.6	X	25.76961	213.51393	340.48015	5.75096	0.1208083	0.24568676	2.5247296	21	4 7.4	20.1
486546 2013 HK_{35}	17.4	X	57.80281	221.67473	224.27105	13.05613	0.1552054	0.22467057	2.6798177	21	1 8.8	20.5
486547 2013 HS_{38}	17.3	X	229.99543	320.27911	355.82440	10.08484	0.1552366	0.22687262	2.6624492	21	2 21.4	21.6
486548 2013 HH_{41}	17.0	X	253.45069	359.46359	231.98549	7.10238	0.0638007	0.21128592	2.7918303	21	—	—
486549 2013 HK_{45}	16.9	X	42.44594	159.53774	268.56861	4.98466	0.0559359	0.20823735	2.8190123	21	—	—
486550 2013 HA_{46}	16.5	X	215.53671	273.32959	241.40593	7.62028	0.0324369	0.17507372	3.1646237	21	10 17.6	21.1
486551 2013 HO_{48}	17.0	X	326.16521	275.00828	231.35247	7.02419	0.1370310	0.21198929	2.7856514	21	—	—
486552 2013 HR_{48}	17.1	X	1.70012	274.24498	224.25277	10.77053	0.1344954	0.22141566	2.7060168	21	—	—
486553 2013 HW_{52}	16.5	X	102.23895	306.67985	3.21945	12.30085	0.1212092	0.18495673	3.0508624	21	12 25.4	21.4
486554 2013 HV_{58}	17.6	X	69.84274	82.93721	348.88728	6.88968	0.1191224	0.22240618	2.6979764	21	1 12.6	20.8
486555 2013 HJ_{59}	17.1	X	1.47150	286.98244	220.98847	11.98373	0.2003922	0.22730466	2.6590744	21	—	—
486556 2013 HP_{60}	17.4	X	60.60436	64.02556	6.25889	10.40352	0.2517699	0.22335226	2.6903523	21	1 6.8	19.9
486557 2013 HP_{67}	16.2	X	85.00673	314.76720	5.41277	8.21781	0.1503749	0.18051364	3.1007210	21	12 21.9	21.1
486558 2013 HU_{72}	17.2	X	241.38896	48.13522	217.11028	11.83531	0.1438304	0.21523112	2.7576089	21	—	—
486559 2013 HE_{73}	17.2	X	148.11951	9.37348	341.37886	3.77179	0.0845908	0.21482178	2.7611108	21	1 10.8	21.1
486560 2013 HO_{74}	17.4	X	151.31612	87.67423	250.75494	3.48164	0.0762813	0.21184807	2.7868893	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
486561 2013 HR_{78}	17.0	X	17.61240	178.13961	217.72587	9.20854	0.0986803	0.18877499	3.0095836	21	12 27.2	21.0
486562 2013 HT_{80}	17.5	X	325.68472	109.96937	15.07395	1.68240	0.0283402	0.20145076	2.8819743	21	—	—
486563 2013 HW_{103}	17.3	X	64.06215	166.51866	262.28802	0.85655	0.0123233	0.21560826	2.7543923	21	—	—
486564 2013 HY_{115}	17.1	X	199.01458	251.43777	29.31393	11.22110	0.1167985	0.20643310	2.8354141	21	—	—
486565 2013 HE_{121}	17.2	X	25.94504	19.63841	33.30479	11.29609	0.1379044	0.19912240	2.9043969	21	—	—
486566 2013 HT_{124}	17.6	X	41.72197	221.31941	241.69527	10.28721	0.1771728	0.22679496	2.6630569	21	1 2.6	20.2
486567 2013 HP_{129}	16.6	X	17.67398	50.62124	19.61871	17.36666	0.1263586	0.20197701	2.8769662	21	—	—
486568 2013 HA_{130}	17.4	X	109.85595	15.32849	346.15737	4.76376	0.0326912	0.20862364	2.8155313	21	—	—
486569 2013 HZ_{130}	17.4	X	64.67587	82.86667	355.21652	6.07351	0.0460728	0.22078073	2.7112024	21	1 6.7	20.9
486570 2013 HN_{131}	17.4	X	24.32585	215.48965	240.12091	4.16912	0.1338938	0.21645669	2.7471900	21	—	—
486571 2013 HM_{135}	17.4	X	313.30637	216.56246	29.69190	12.12757	0.1533625	0.23343945	2.6122809	21	2 24.9	21.1
486572 2013 HY_{135}	17.3	X	338.31682	129.52448	22.42895	7.54825	0.0640562	0.21538975	2.7562548	21	—	—
486573 2013 HX_{136}	16.8	X	60.22882	4.15009	347.29558	1.56316	0.2263158	0.18490428	3.0514394	21	—	—
486574 2013 HG_{141}	17.7	X	79.71492	44.16419	22.38164	5.70950	0.1110155	0.22220136	2.6996341	21	1 20.5	21.0
486575 2013 HW_{145}	17.3	X	235.11153	15.78656	239.47091	1.14000	0.0463261	0.21435009	2.7651600	21	—	—
486576 2013 JJ	15.7	X	95.75715	131.44106	147.17894	16.43432	0.0929755	0.17415854	3.1757004	21	11 12.6	20.7
486577 2013 JR	16.1	X	351.74803	11.89654	32.18209	16.18042	0.0353621	0.17854380	3.1234857	21	11 21.6	20.5
486578 2013 JW_{1}	17.4	X	311.95110	161.37842	88.10668	8.90492	0.2053802	0.23679962	2.5875101	21	2 16.2	21.0
486579 2013 JN_{2}	17.3	X	312.43896	322.33920	216.17613	7.25201	0.1537003	0.21331792	2.7740726	21	—	—
486580 2013 JU_{5}	16.0	X	113.62335	285.65220	67.19061	12.85597	0.0758511	0.19441103	2.9511330	21	—	—
486581 2013 JV_{6}	17.0	X	327.00765	110.75924	82.99454	30.47552	0.2868477	0.22643122	2.6659081	21	—	—
486582 2013 JO_{8}	16.9	X	232.44942	64.69541	258.20517	4.90106	0.0522406	0.22477871	2.6789582	21	3 3.9	20.9
486583 2013 JG_{16}	16.9	X	292.75320	185.97657	84.64947	15.20909	0.2253410	0.22971396	2.6404491	21	2 22.3	21.1
486584 2013 JA_{23}	15.9	X	147.50739	248.52511	55.79143	10.79521	0.0868809	0.19209038	2.9748538	21	—	—
486585 2013 JW_{25}	17.4	X	25.75295	323.27430	185.61031	12.81641	0.1223072	0.22662052	2.6644234	21	2 4.9	20.6
486586 2013 JE_{28}	17.1	X	350.23162	35.16091	125.04880	8.50934	0.1394982	0.21762262	2.7373691	21	—	—
486587 2013 JK_{28}	15.4	X	121.62099	167.78009	140.27446	29.07650	0.1825096	0.17535494	3.1612393	21	—	—
486588 2013 JB_{32}	16.5	X	262.54955	143.61338	106.02853	13.45164	0.0795749	0.21069342	2.7970619	21	1 9.3	20.5
486589 2013 JC_{35}	17.1	X	352.95913	308.23925	235.68564	10.22581	0.0839924	0.22632337	2.6667550	21	1 31.9	20.6
486590 2013 JD_{35}	16.4	X	346.19483	186.95227	31.42485	28.42077	0.0556147	0.23921316	2.5700762	21	3 27.8	20.0
486591 2013 JG_{35}	16.9	X	315.34421	141.95444	95.94995	15.31806	0.2250205	0.22866168	2.6485436	21	2 3.5	20.7
486592 2013 JX_{39}	15.8	X	76.73532	233.20077	108.35706	12.35100	0.0261469	0.17847124	3.1243324	21	12 24.1	20.2
486593 2013 JB_{40}	17.4	X	299.96808	73.80453	142.04302	8.45326	0.1636529	0.21439453	2.7647779	21	—	—
486594 2013 JB_{44}	16.6	X	42.40357	148.27811	25.07148	8.82938	0.1115210	0.24141175	2.5544483	21	4 10.9	19.2
486595 2013 JY_{46}	16.9	X	313.44146	98.61648	116.85776	9.89395	0.0779912	0.21777302	2.7361086	21	1 25.3	20.7
486596 2013 JR_{47}	16.1	X	150.15499	188.17926	102.33332	12.50351	0.1582326	0.18507276	3.0495871	21	—	—
486597 2013 JZ_{47}	15.6	X	348.36522	312.35964	97.90614	15.90854	0.0487330	0.17482051	3.1676788	21	11 30.7	20.0
486598 2013 JT_{50}	17.3	X	304.91301	60.69812	143.15924	10.18459	0.1545565	0.21865267	2.7287653	21	—	—
486599 2013 JZ_{52}	16.1	X	98.95771	290.43910	35.64484	11.75573	0.1546431	0.18423749	3.0587974	21	—	—
486600 2013 JC_{54}	16.9	X	308.08082	62.90686	111.99067	11.14610	0.0594833	0.20875668	2.8143351	21	—	—
486601 2013 JD_{55}	16.1	X	101.60539	271.01080	63.54471	10.53510	0.0866369	0.18540886	3.0459006	21	—	—
486602 2013 JS_{57}	16.6	X	285.80915	141.32593	77.90150	10.67009	0.0581906	0.21306859	2.7762363	21	—	—
486603 2013 JC_{62}	16.0	X	159.86413	43.45884	223.87944	12.38790	0.1057419	0.18252121	3.0779424	21	12 27.8	21.0
486604 2013 JR_{62}	16.2	X	107.15129	121.59492	207.01962	9.27190	0.1129177	0.18986998	2.9980015	21	—	—
486605 2013 KD	17.1	X	358.78572	105.91093	54.08363	6.98478	0.0948125	0.22418621	2.6836763	21	1 13.6	20.4
486606 2013 KF	17.2	X	345.29332	30.59926	218.16249	8.02963	0.1206163	0.23968243	2.5667205	21	4 15.5	20.1
486607 2013 KY_{1}	17.8	X	334.77980	136.30885	122.46183	19.01997	0.5271045	0.23186394	2.6241012	21	2 6.8	21.3
486608 2013 KN_{3}	16.6	X	278.03021	211.91704	62.26565	13.91629	0.1216986	0.22515480	2.6759741	21	2 24.9	20.8
486609 2013 KO_{7}	15.7	X	64.95850	293.94293	46.03933	17.15583	0.0978611	0.17689959	3.1428103	21	12 15.1	20.4
486610 2013 KD_{10}	15.3	X	137.51320	186.70255	82.95139	18.34903	0.1007808	0.17532513	3.1615976	21	12 10.1	20.3
486611 2013 KE_{14}	16.0	X	67.44383	244.86011	79.14121	16.66624	0.0722162	0.16939701	3.2349350	21	11 28.1	20.6
486612 2013 KR_{14}	16.0	X	28.38616	153.54943	226.87020	9.19488	0.1006266	0.18062587	3.0994365	21	12 21.6	20.3
486613 2013 KG_{16}	16.2	X	163.98820	227.52893	61.52543	10.50167	0.0702593	0.19285606	2.9669748	21	—	—
486614 2013 KN_{16}	15.7	X	93.49129	223.41606	90.05999	16.79203	0.0796040	0.17409038	3.1765293	21	12 15.2	20.3
486615 2013 KG_{17}	16.9	X	347.51421	189.51827	37.81892	8.68859	0.1722149	0.23735961	2.5834388	21	3 18.0	19.6
486616 2013 KO_{17}	17.0	X	315.10328	82.52105	137.09288	16.42378	0.1217722	0.22011918	2.7166319	21	1 25.0	20.8
486617 2013 LJ_{5}	16.7	X	241.90230	213.52486	74.13110	13.29539	0.1267506	0.21544002	2.7558260	21	2 1.9	21.2
486618 2013 LQ_{5}	15.9	X	175.40584	213.50653	100.98908	18.12316	0.0897932	0.20520492	2.8467164	21	—	—
486619 2013 LZ_{5}	16.1	X	100.35055	245.55341	63.63898	11.92318	0.0203446	0.17802243	3.1295813	21	12 11.2	20.7
486620 2013 LD_{8}	16.5	X	184.09451	161.41917	92.66650	5.46189	0.1293778	0.18593758	3.0401237	21	—	—
486621 2013 LZ_{8}	17.8	X	314.76493	63.44037	152.09752	2.67501	0.2449942	0.22123960	2.7074523	21	1 2.5	21.7
486622 2013 LD_{12}	15.6	X	110.80148	218.87104	97.82394	18.20834	0.2314381	0.17496597	3.1659229	21	—	—
486623 2013 LJ_{18}	16.5	X	236.69582	42.25829	228.28768	12.75789	0.0670641	0.20990456	2.8040653	21	1 5.6	20.9
486624 2013 LY_{19}	16.0	X	166.64859	141.04151	84.64035	8.00329	0.0788577	0.17204604	3.2016431	21	11 17.9	20.9
486625 2013 LX_{20}	15.5	X	166.21345	231.74135	56.13451	10.37402	0.1522304	0.18915169	3.0055865	21	—	—
486626 2013 LU_{21}	17.2	X	336.73786	202.81167	57.54923	5.32684	0.2324361	0.23818938	2.5774354	21	4 3.6	19.9
486627 2013 LU_{23}	16.2	X	114.85331	96.41383	210.94926	7.96093	0.2380245	0.17462388	3.1700562	21	—	—
486628 2013 LE_{24}	17.0	X	269.67066	52.79738	138.72804	8.42317	0.1503331	0.19867573	2.9087485	21	—	—
486629 2013 LM_{24}	16.6	X	235.04525	113.56379	105.90421	11.98560	0.0594273	0.19155777	2.9803655	21	—	—
486630 2013 LC_{33}	17.1	X	276.14220	129.65068	126.57942	11.53809	0.1286465	0.21786907	2.7353044	21	1 25.5	21.3
486631 2013 LD_{34}	17.0	X	323.04898	264.07665	16.21050	4.22248	0.1977283	0.23995799	2.5647551	21	4 11.4	19.9
486632 2013 MH_{2}	16.6	X	206.28358	105.16924	128.36634	12.27759	0.0926664	0.18631130	3.0360569	21	—	—
486633 2013 NN	18.6	X	279.03370	343.60507	118.84005	23.39479	0.1209648	0.39875843	1.8280839	21	12 18.4	19.9
486634 2013 NA_{7}	16.0	X	151.10825	138.63525	136.63863	10.85935	0.0609632	0.16940349	3.2348524	21	12 28.1	21.0
486635 2013 NM_{20}	16.0	X	143.20190	148.73677	161.29735	22.19997	0.1081164	0.17282718	3.1919887	21	—	—
486636 2013 NW_{22}	16.0	X	170.50128	331.20060	316.71798	26.75351	0.1477514	0.17530775	3.1618066	21	—	—
486637 2013 OC_{3}	18.4	X	268.77289	306.17844	155.60682	21.44069	0.1245250	0.39167453	1.8500601	21	11 22.5	20.3
486638 2013 OC_{4}	17.4	X	358.78134	48.78226	337.02838	22.09676	0.1035068	0.39770596	1.8313077	21	—	—
486639 2013 OW_{4}	15.9	X	161.57235	139.03347	155.87928	14.87781	0.2709506	0.17489068	3.1668314	21	—	—
486640 2013 PA	16.1	X	148.98619	143.95825	166.32277	14.69983	0.2716414	0.17328905	3.1863144	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
486641 2013 PS	16.5	X	215.23052	327.44910	282.73067	8.91316	0.2485035	0.18105902	3.0944914	21	—	—
486642 2013 PK_{1}	16.1	X	189.01825	338.73134	289.70506	11.89680	0.0645532	0.17093038	3.2155595	21	—	—
486643 2013 PO_{1}	17.0	X	316.04013	46.00810	188.61341	8.92422	0.2192169	0.21038826	2.7997659	21	1 30.9	21.0
486644 2013 PZ_{1}	15.9	X	241.94189	271.03829	336.03251	20.68488	0.2381470	0.18534100	3.0466440	21	—	—
486645 2013 PK_{16}	17.7	X	323.47819	198.09739	156.86588	23.10939	0.0896532	0.37043365	1.9201232	21	8 28.9	18.7
486646 2013 PG_{20}	16.1	X	204.73894	153.12206	158.12856	14.75394	0.1161152	0.18670066	3.0318345	21	1 26.1	21.0
486647 2013 PF_{25}	15.9	X	171.24282	326.82611	323.28694	14.64723	0.2209557	0.17206385	3.2014222	21	—	—
486648 2013 PL_{53}	16.5	X	250.19014	300.26511	269.33321	8.42740	0.0643054	0.17120385	3.2121343	21	—	—
486649 2013 PN_{63}	17.0	X	190.19142	54.79604	209.34587	4.76859	0.1236068	0.17484565	3.1673751	21	—	—
486650 2013 PK_{72}	16.0	X	272.77410	42.95007	162.81706	28.17629	0.0869720	0.18624614	3.0367651	21	—	—
486651 2013 QZ	16.7	X	177.25784	113.94793	175.61570	11.04066	0.0741145	0.17612016	3.1520760	21	—	—
486652 2013 QM_{1}	18.1	X	143.08810	292.70763	297.18229	18.36494	0.0218534	0.39262583	1.8470705	21	12 3.4	20.2
486653 2013 QT_{1}	18.4	X	256.53474	282.63439	155.65808	24.49134	0.0789391	0.37506317	1.9042901	21	9 19.3	20.1
486654 2013 QW_{8}	15.8	X	194.50479	251.25910	339.97381	16.21627	0.1170590	0.15718606	3.4003741	21	12 15.5	21.3
486655 2013 QG_{12}	16.1	X	214.72418	283.76707	336.75787	14.67314	0.1680167	0.18149497	3.0895341	21	—	—
486656 2013 QJ_{13}	15.9	X	242.82042	188.35010	29.08872	10.96596	0.1675986	0.17754763	3.1351583	21	—	—
486657 2013 QT_{24}	16.5	X	196.79548	255.89496	6.95507	10.70797	0.1849562	0.17438357	3.1729679	21	—	—
486658 2013 QE_{32}	17.8	X	275.28389	181.91314	176.80162	24.05576	0.0914927	0.34917027	1.9973057	21	6 5.8	20.7
486659 2013 QK_{43}	16.6	X	248.45294	40.27644	189.48541	1.33240	0.2432938	0.18328012	3.0694400	21	—	—
486660 2013 QU_{51}	16.3	X	236.59493	88.59734	125.28589	12.57891	0.2469645	0.18042651	3.1017192	21	12 27.3	21.1
486661 2013 QL_{55}	16.2	X	163.65422	301.72692	351.20073	14.30242	0.1920753	0.17261024	3.1946627	21	—	—
486662 2013 QC_{61}	16.3	X	162.01516	157.15287	159.88903	11.28976	0.1369177	0.18077527	3.0977287	21	—	—
486663 2013 QN_{61}	16.1	X	157.34834	8.85637	313.59914	9.99053	0.1000832	0.17908334	3.1172090	21	—	—
486664 2013 QV_{69}	18.2	X	174.69023	318.01865	187.08050	22.89573	0.0056735	0.36757932	1.9300505	21	9 1.4	20.4
486665 2013 QZ_{77}	16.5	X	221.06033	40.46208	210.81213	4.44703	0.1145878	0.17712354	3.1401606	21	—	—
486666 2013 QD_{87}	15.6	X	213.28760	204.59115	354.72014	13.66740	0.0553068	0.15378087	3.4503873	21	11 29.9	20.9
486667 2013 RM_{29}	18.7	X	298.70609	302.74686	169.26862	22.78275	0.0667265	0.39597925	1.8366276	21	—	—
486668 2013 RO_{43}	18.3	X	320.42031	223.96455	215.86179	21.83272	0.0902519	0.39409789	1.8424681	21	—	—
486669 2013 RU_{51}	15.9	X	218.81644	107.79835	177.19771	26.61307	0.1794691	0.18538633	3.0461473	21	1 8.3	21.5
486670 2013 RW_{61}	18.6	X	297.31648	86.48926	352.12570	20.32411	0.1237742	0.38204168	1.8810293	21	11 26.7	20.4
486671 2013 SP	18.0	X	275.37970	298.71818	191.01229	21.66070	0.0812383	0.39265548	1.8469775	21	—	—
486672 2013 SR_{75}	18.2	X	271.04475	115.22141	312.06263	17.56182	0.1040925	0.36740178	1.9306722	21	9 7.4	20.2
486673 2013 SZ_{75}	14.7	X	155.28140	315.53166	154.04029	10.58710	0.0891704	0.08269596	5.2177089	21	6 19.5	22.0
486674 2013 TV_{12}	18.2	X	294.43228	241.24957	183.47386	22.17326	0.0780430	0.37515793	1.9039694	21	11 8.0	19.9
486675 2013 TP_{19}	14.2	X	227.94141	7.69234	19.75350	9.48762	0.0755401	0.08440644	5.1469780	21	5 25.9	21.4
486676 2013 TX_{25}	18.8	X	353.17628	245.55690	194.33903	18.83142	0.0499356	0.40078772	1.8219080	21	—	—
486677 2013 TH_{32}	13.9	X	230.55610	177.97085	219.76515	11.29596	0.0628737	0.08342916	5.1870944	21	6 12.2	21.0
486678 2013 TE_{73}	14.2	X	231.99375	207.95936	186.42736	9.76360	0.1341717	0.08174661	5.2580277	21	6 4.9	21.7
486679 2013 TC_{78}	13.5	X	314.21658	72.33164	235.86168	14.31262	0.0342559	0.08333778	5.1908852	21	6 7.9	20.3
486680 2013 TV_{78}	18.1	X	307.91262	43.59199	354.07144	19.16897	0.0826538	0.36902484	1.9250070	21	10 5.7	19.5
486681 2013 TM_{88}	13.1	X	281.34703	315.96402	24.68228	31.06543	0.0327511	0.08186880	5.2527949	21	5 27.8	20.3
486682 2013 TA_{98}	18.0	X	253.26296	112.78364	18.57307	20.49265	0.0868271	0.37685889	1.8982360	21	11 29.7	20.1
486683 2013 TD_{111}	17.6	X	37.11163	47.06221	221.18226	19.68322	0.0784161	0.35309982	1.9824598	21	8 14.1	20.0
486684 2013 TN_{113}	18.0	X	46.52457	47.49447	204.14786	24.21361	0.1172909	0.35393275	1.9793483	21	8 12.0	20.6
486685 2013 TV_{113}	18.2	X	312.66843	127.14837	218.18193	24.39248	0.0109312	0.34774574	2.0027566	21	7 19.3	21.1
486686 2013 TD_{117}	14.4	X	222.84078	158.33716	245.32858	9.01839	0.0695375	0.08393972	5.1660391	21	6 10.5	21.5
486687 2013 TP_{121}	18.5	X	212.28455	267.40913	198.23536	21.43772	0.0913777	0.36127990	1.9524212	21	8 14.4	21.3
486688 2013 UL_{1}	18.6	X	315.21191	247.51429	171.23514	22.75199	0.1441093	0.37590610	1.9014422	21	12 13.8	20.5
486689 2013 UQ_{3}	17.7	X	147.39153	295.40803	282.35529	20.01137	0.0732909	0.37773387	1.8953035	21	11 11.8	20.4
486690 2013 UG_{15}	14.2	X	257.21828	178.73885	176.58557	18.66321	0.0946523	0.08492792	5.1258873	21	5 22.2	21.4
486691 2013 VD_{9}	13.6	X	347.45685	154.54475	136.48908	15.49371	0.0477239	0.08437304	5.1483365	21	6 28.9	20.3
486692 2013 VC_{13}	19.2	X	70.60325	61.34246	200.00574	7.19518	0.5881007	0.52401621	1.5237237	21	12 4.5	22.2
486693 2013 WB	18.1	X	7.37958	280.69439	119.22937	22.32667	0.0803151	0.38782748	1.8622744	21	—	—
486694 2013 WZ	18.2	X	277.46476	13.68501	60.54182	22.63360	0.0854571	0.36707370	1.9318224	21	10 26.7	20.0
486695 2013 WP_{63}	13.1	X	316.02862	41.38205	268.47124	22.61876	0.0972019	0.08306874	5.2020875	21	6 5.9	19.7
486696 2013 WD_{64}	18.4	X	204.37635	93.82297	71.53108	23.86537	0.1093557	0.36608298	1.9353062	21	11 13.6	20.7
486697 2013 WW_{104}	17.9	X	206.34644	252.02801	261.46355	17.82111	0.0937293	0.36063712	1.9547404	21	10 17.4	20.6
486698 2013 XO_{4}	18.0	X	68.77513	145.82566	164.73902	26.96143	0.0809611	0.37851268	1.8927028	21	12 23.9	20.9
486699 2013 XF_{10}	17.5	X	163.07788	255.91822	298.85535	17.57504	0.0606750	0.36360953	1.9440729	21	10 21.8	20.4
486700 2013 YA_{2}	18.4	X	168.16192	110.57471	292.98623	2.44740	0.1643807	0.30724223	2.1751144	21	4 2.3	21.6
486701 2013 YR_{49}	17.6	X	352.09884	353.74758	119.26255	7.72776	0.0881900	0.25994056	2.4315695	21	—	—
486702 2013 YA_{78}	18.5	X	154.43842	212.35776	223.03192	4.38999	0.1097876	0.30757096	2.1735643	21	4 27.2	21.1
486703 2013 YQ_{104}	17.3	X	4.38748	70.95286	272.86030	18.98944	0.0811235	0.35935922	1.9593718	21	10 23.8	19.5
486704 2013 YB_{115}	17.6	X	182.72067	67.58881	293.53941	7.20415	0.1372248	0.29300155	2.2450332	21	2 19.2	20.9
486705 2014 AT_{16}	18.0	X	75.52793	15.51545	311.93630	17.54631	0.0638289	0.37290904	1.9116165	21	—	—
486706 2014 AA_{29}	17.7	X	254.22975	159.26059	346.14205	20.02172	0.0868973	0.36891685	1.9253826	21	—	—
486707 2014 AP_{41}	18.1	X	46.19035	288.79621	286.79492	5.25137	0.1121052	0.30866166	2.1684409	21	6 16.7	19.8
486708 2014 AZ_{41}	18.3	X	43.35478	31.13873	297.77117	15.91568	0.0792181	0.35687038	1.9684711	21	12 9.6	20.6
486709 2014 AN_{43}	17.7	X	220.04941	15.41682	103.46163	24.83830	0.0789860	0.34982402	1.9948166	21	10 6.7	20.7
486710 2014 AH_{49}	17.9	X	168.99007	213.69407	313.99069	19.78736	0.0790501	0.33856017	2.0388196	21	9 13.9	20.8
486711 2014 BJ_{8}	17.8	X	180.10219	32.91465	171.04763	23.80758	0.0498813	0.36230353	1.9487420	21	12 10.9	20.7
486712 2014 BB_{20}	18.3	X	192.82015	279.00757	137.37920	5.51314	0.1383666	0.31322950	2.1473077	21	5 16.7	21.4
486713 2014 BV_{22}	16.9	X	236.23727	145.49450	143.17774	23.62912	0.1793715	0.26998665	2.3708706	21	1 16.2	20.9
486714 2014 BF_{33}	18.0	X	326.42480	297.91980	148.26320	24.62925	0.0382193	0.36986315	1.9220972	21	—	—
486715 2014 BN_{37}	17.3	X	54.57100	157.72876	317.69050	6.26675	0.0559423	0.27418155	2.3466261	21	1 28.5	19.7
486716 2014 BD_{43}	17.8	X	191.01851	245.75138	283.74133	17.28719	0.0580198	0.35681206	1.9686856	21	10 23.1	20.5
486717 2014 BU_{54}	17.9	X	323.03806	273.08582	137.93850	24.08658	0.1373464	0.35889912	1.9610460	21	12 14.9	19.9
486718 2014 BP_{57}	17.9	X	53.10303	2.79371	323.26490	18.04969	0.0664075	0.35941849	1.9591564	21	12 18.9	20.4
486719 2014 BY_{60}	18.2	X	290.31100	123.34803	321.12639	17.94719	0.1180762	0.36033394	1.9558368	21	11 14.5	20.2
486720 2014 CP	17.7	X	322.82354	307.81879	126.26162	23.71415	0.0926917	0.36492139	1.9394109	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
486721 2014 CJ_{17}	17.8	X	52.33297	336.01770	131.45990	4.23553	0.1440145	0.27370637	2.3493413	21	1 15.0	19.9
486722 2014 DS_{2}	18.1	X	108.19189	302.57094	354.81393	20.48050	0.0861015	0.35857308	1.9622346	21	—	—
486723 2014 DY_{6}	18.0	X	171.25649	244.01173	337.82223	16.75410	0.0754569	0.35488194	1.9758173	21	12 18.0	20.7
486724 2014 DN_{9}	17.7	X	354.32585	330.06986	286.66108	5.98273	0.2037309	0.29559145	2.2319004	21	4 25.1	19.5
486725 2014 DZ_{17}	18.9	X	209.73602	118.97681	20.18684	9.23775	0.2961773	0.34642385	2.0078481	21	9 17.3	22.0
486726 2014 DG_{38}	17.9	X	56.97619	184.83851	7.93673	6.62602	0.0959423	0.29320571	2.2439910	21	5 27.0	20.2
486727 2014 DN_{38}	18.0	X	58.64403	218.18940	14.64348	6.84377	0.1713486	0.30354757	2.1927286	21	8 20.4	20.3
486728 2014 DG_{43}	18.1	X	89.35453	71.68542	100.91687	3.18848	0.0850907	0.30217087	2.1993836	21	6 17.9	20.4
486729 2014 DO_{55}	17.9	X	355.09380	246.94985	9.74757	4.68248	0.1644692	0.29111292	2.2547327	21	5 4.6	19.7
486730 2014 DF_{58}	18.3	X	351.23589	230.54172	26.95747	7.54959	0.1729763	0.29059365	2.2574179	21	4 26.7	19.8
486731 2014 DS_{66}	17.9	X	152.80607	11.06754	48.17275	7.57126	0.0769481	0.28543100	2.2845568	21	4 4.5	20.9
486732 2014 DS_{73}	16.5	X	97.21330	324.32030	45.96020	10.73174	0.1115208	0.24275902	2.5449883	21	—	—
486733 2014 DA_{112}	18.6	X	92.49782	49.83580	93.47422	4.15754	0.1264210	0.29195259	2.2504074	21	5 17.9	21.0
486734 2014 DM_{116}	17.4	X	51.51719	109.39828	74.85522	6.83034	0.0460966	0.28970720	2.2620204	21	5 2.2	19.8
486735 2014 DQ_{122}	18.4	X	41.58881	97.36704	135.61225	4.81791	0.1235149	0.30461923	2.1875828	21	7 8.4	20.2
486736 2014 DQ_{140}	18.1	X	355.94715	268.70638	3.71903	6.10868	0.1717693	0.29846707	2.2175416	21	6 2.5	19.7
486737 2014 EZ_{5}	18.0	X	162.34409	298.43462	149.51940	5.15225	0.1083725	0.30440526	2.1886078	21	5 25.9	21.1
486738 2014 EU_{23}	18.1	X	49.75806	162.62595	31.97728	3.75033	0.0974640	0.29217618	2.2492592	21	5 18.2	20.1
486739 2014 EW_{24}	19.5	X	332.92836	342.16082	48.18287	8.57696	0.4198596	0.62144549	1.3599847	21	—	—
486740 2014 EO_{32}	18.5	X	52.92687	193.85331	354.39747	1.31415	0.0317108	0.29518006	2.2339736	21	5 5.9	21.0
486741 2014 EE_{34}	17.5	X	344.80641	136.11478	125.47544	6.74109	0.0776453	0.29280196	2.2460533	21	5 6.4	19.8
486742 2014 EM_{34}	18.5	X	80.47012	159.99177	39.31885	5.41563	0.0765649	0.30790751	2.1719802	21	7 14.9	21.0
486743 2014 EW_{38}	17.9	X	192.12546	334.68624	60.58620	6.73602	0.1131538	0.29292797	2.2454092	21	4 18.5	21.0
486744 2014 EK_{39}	17.8	X	321.93552	173.50263	117.30151	6.62958	0.2708852	0.28774849	2.2722739	21	4 9.3	20.3
486745 2014 EX_{45}	17.7	X	94.26354	278.16277	150.75194	12.19872	0.1735183	0.27374837	2.3491010	21	2 10.1	20.1
486746 2014 EX_{49}	17.9	X	19.80001	66.89285	110.86479	8.11483	0.1900712	0.27663127	2.3327518	21	2 23.9	19.7
486747 2014 FN_{3}	17.7	X	16.99079	159.90032	78.32586	7.60296	0.1281619	0.29512221	2.2342655	21	5 27.2	19.2
486748 2014 FH_{10}	17.8	X	339.50501	294.83276	4.76030	5.51949	0.0978498	0.30388957	2.1910831	21	6 20.9	19.8
486749 2014 FU_{10}	17.7	X	126.21343	64.97672	164.80062	23.91142	0.0413355	0.34179145	2.0259494	21	11 5.5	20.6
486750 2014 FO_{36}	17.6	X	145.18223	32.32591	70.07407	6.99492	0.0795361	0.28920677	2.2646291	21	5 22.8	20.5
486751 2014 FX_{36}	16.9	X	241.92009	123.64526	117.22190	15.71386	0.0822339	0.24270483	2.5453672	21	—	—
486752 2014 FL_{37}	17.7	X	45.52067	134.57595	28.07371	7.46330	0.0494003	0.27308851	2.3528835	21	3 24.2	20.3
486753 2014 FC_{42}	18.1	X	67.41377	17.36639	179.72255	5.15601	0.1088600	0.29566552	2.2315276	21	6 24.9	20.6
486754 2014 FQ_{51}	17.8	X	307.07855	74.94972	194.46222	3.91900	0.1568083	0.26974030	2.3723139	21	3 5.8	20.9
486755 2014 FE_{53}	18.1	X	11.90025	65.25828	179.12935	4.29105	0.1169418	0.29369650	2.2414903	21	5 26.9	19.9
486756 2014 FQ_{54}	16.6	X	264.31884	89.79143	124.82598	5.41161	0.1586039	0.23669869	2.5882456	21	—	—
486757 2014 FO_{56}	17.7	X	20.29817	109.21949	47.52990	13.12722	0.1134459	0.26920666	2.3754479	21	2 4.0	20.4
486758 2014 FV_{56}	17.6	X	357.91952	187.57295	71.31374	7.95863	0.1119814	0.29345658	2.2427119	21	5 21.4	19.4
486759 2014 FT_{62}	16.1	X	286.28752	161.30152	16.12048	17.43373	0.1023780	0.23539856	2.5977669	21	—	—
486760 2014 GJ_{2}	16.8	X	92.14721	204.06054	85.95387	3.23090	0.0341930	0.20383837	2.8594253	21	11 15.7	20.7
486761 2014 GH_{12}	18.2	X	8.03122	131.72967	111.43753	3.25814	0.0590795	0.29245667	2.2478208	21	5 18.1	20.3
486762 2014 GH_{26}	18.2	X	346.39202	350.35868	266.97188	1.22056	0.1937285	0.28031407	2.3122748	21	4 14.3	20.2
486763 2014 GR_{31}	18.1	X	30.74414	79.22455	172.04230	6.70912	0.1784247	0.29643166	2.2276809	21	7 24.4	20.0
486764 2014 GU_{33}	18.4	X	94.01880	162.97058	48.09772	7.66238	0.0560324	0.30915304	2.1661425	21	8 21.9	21.0
486765 2014 GN_{39}	17.9	X	39.20141	192.75049	44.50528	7.69266	0.0973955	0.29477194	2.2360351	21	7 8.1	20.1
486766 2014 GU_{42}	18.1	X	29.76522	4.37573	186.05230	3.30340	0.0622227	0.27626234	2.3348282	21	4 6.1	20.3
486767 2014 GV_{42}	18.2	X	1.05352	42.29340	187.61584	4.51364	0.1743092	0.27764076	2.3270939	21	4 6.1	19.7
486768 2014 GE_{44}	18.0	X	49.70791	128.13411	78.62201	6.21627	0.0853710	0.29109785	2.2548105	21	6 5.8	19.9
486769 2014 GG_{46}	18.7	X	119.48593	44.83899	142.45536	2.59312	0.1255681	0.31084685	2.1582665	21	8 25.2	21.3
486770 2014 GO_{49}	16.3	X	179.70278	221.24862	117.82416	32.98672	0.2004513	0.23422936	2.6064046	21	2 3.5	20.7
486771 2014 GP_{49}	16.2	X	183.46518	219.06697	118.86190	34.01973	0.2441000	0.23262026	2.6184102	21	2 7.7	20.9
486772 2014 HE	17.6	X	243.46684	166.77677	162.57273	6.84101	0.1289006	0.26886615	2.3774531	21	3 17.3	20.9
486773 2014 HD_{1}	17.9	X	344.69650	191.42192	67.24864	7.93509	0.1062285	0.28640406	2.2793793	21	4 28.2	20.0
486774 2014 HP_{8}	18.2	X	94.83610	55.55889	52.28218	6.95262	0.0651029	0.27351459	2.3504394	21	3 25.1	21.0
486775 2014 HU_{12}	18.1	X	49.81189	331.64706	207.17099	11.44673	0.0684889	0.28095585	2.3087522	21	4 22.6	20.5
486776 2014 HK_{17}	18.0	X	31.89800	349.64787	233.01705	1.75766	0.0878206	0.29022646	2.2593215	21	5 29.6	20.0
486777 2014 HY_{19}	18.0	X	13.50877	38.77370	221.13137	6.11603	0.1627913	0.29259191	2.2471281	21	6 26.9	19.6
486778 2014 HQ_{23}	17.5	X	6.00419	173.55386	34.33139	9.73844	0.0446796	0.27404224	2.3474213	21	3 27.9	20.1
486779 2014 HF_{27}	18.0	X	338.53209	234.55415	40.11248	6.90862	0.1255380	0.28579551	2.2826139	21	5 6.3	19.9
486780 2014 HW_{28}	18.4	X	81.54563	156.11108	62.48812	6.38992	0.0922864	0.30751115	2.1738462	21	8 19.9	21.0
486781 2014 HG_{29}	17.7	X	297.10218	181.26409	109.69833	2.27336	0.1939967	0.27248555	2.3563533	21	3 18.6	20.7
486782 2014 HK_{29}	18.4	X	9.24594	70.15138	169.86554	2.95266	0.1001399	0.28636534	2.2795848	21	5 14.9	20.5
486783 2014 HN_{37}	18.1	X	28.53754	76.74735	124.06243	3.03661	0.1318458	0.28439415	2.2901061	21	4 21.9	19.9
486784 2014 HB_{41}	18.0	X	344.82897	119.90156	126.02011	3.07007	0.1956692	0.27546952	2.3393059	21	3 26.8	20.2
486785 2014 HB_{61}	16.9	X	31.61146	247.66420	195.71882	12.50808	0.1506200	0.24291571	2.5438938	21	—	—
486786 2014 HT_{71}	18.1	X	133.78035	49.02204	48.20123	2.65667	0.1665625	0.28890302	2.2662162	21	5 11.0	21.2
486787 2014 HH_{79}	18.2	X	226.54026	175.33995	149.46672	5.57452	0.1213808	0.26115134	2.4240480	21	2 23.3	21.9
486788 2014 HS_{84}	18.1	X	141.15226	3.60622	71.33198	7.36678	0.1247881	0.27943415	2.3171264	21	4 18.2	21.3
486789 2014 HE_{93}	18.3	X	49.82276	103.07492	99.62895	3.45314	0.1437300	0.28956612	2.2627551	21	6 8.5	20.2
486790 2014 HM_{143}	17.6	X	92.28327	270.05163	154.85479	6.36451	0.1107847	0.25404607	2.4690377	21	1 27.1	20.3
486791 2014 HU_{146}	17.8	X	269.96126	208.80247	92.84124	4.86904	0.1966978	0.26935558	2.3745723	21	3 4.7	21.5
486792 2014 HF_{147}	18.1	X	7.74732	270.62687	23.30900	1.26734	0.1691024	0.30612652	2.1803962	21	8 16.6	19.3
486793 2014 HT_{149}	18.0	X	356.32032	228.78093	18.67077	2.95200	0.1904500	0.27978633	2.3151816	21	4 21.3	19.7
486794 2014 HQ_{156}	17.4	X	241.10630	224.91476	102.62791	4.32821	0.1895253	0.26455172	2.4032317	21	3 11.2	21.2
486795 2014 HG_{158}	18.4	X	173.10612	25.12866	98.78843	5.58073	0.0763827	0.30841597	2.1695924	21	7 27.6	21.1
486796 2014 HC_{160}	17.6	X	185.38351	247.80262	122.39692	6.63327	0.0369838	0.26716752	2.3875196	21	3 7.9	20.7
486797 2014 HG_{161}	17.5	X	299.87814	175.69719	92.21265	7.60838	0.2088429	0.26384716	2.4075082	21	2 20.7	20.9
486798 2014 HO_{163}	18.1	X	44.28251	266.36011	328.93311	4.92658	0.0541983	0.30388005	2.1911289	21	7 7.7	20.3
486799 2014 HN_{164}	18.0	X	77.49851	313.69270	245.88948	3.31228	0.0802129	0.29418344	2.2390162	21	7 9.5	20.4
486800 2014 HC_{169}	16.9	X	224.24123	179.56909	124.66045	15.77692	0.1101126	0.24319897	2.5419181	21	1 29.3	20.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
486801 2014 HQ_{171}	15.9	X	17.89456	165.68383	135.46460	9.14422	0.2142316	0.16984299	3.2292695	21	9 10.3	19.5
486802 2014 HR_{172}	17.5	X	180.27133	304.15255	112.98355	6.83305	0.0787719	0.28124520	2.3071685	21	5 5.4	20.8
486803 2014 HT_{176}	17.7	X	29.40651	151.76877	56.03839	5.73484	0.1643589	0.28058056	2.3108105	21	5 6.8	19.2
486804 2014 HY_{180}	17.9	X	4.83409	137.02011	103.12509	7.22704	0.0791481	0.28212057	2.3023935	21	5 9.9	20.2
486805 2014 HK_{183}	18.1	X	39.53778	306.37931	251.35777	3.08202	0.1006820	0.28265278	2.2995024	21	5 5.2	20.4
486806 2014 HV_{184}	17.6	X	279.52402	245.56882	65.76589	7.30659	0.1290540	0.27086464	2.3657445	21	4 5.2	20.9
486807 2014 HG_{185}	18.2	X	1.84552	97.65789	127.49752	5.22509	0.1441871	0.27484017	2.3428757	21	4 6.6	20.3
486808 2014 HO_{186}	16.5	X	31.35854	196.91068	118.93344	11.00865	0.1005216	0.18134716	3.0912126	21	10 12.3	20.7
486809 2014 HP_{187}	17.2	X	26.66345	158.41934	111.67105	8.10389	0.1600112	0.29643264	2.2276761	21	8 17.6	19.0
486810 2014 JS	15.9	X	349.90928	298.15447	81.06456	10.89926	0.1060182	0.18686997	3.0300028	21	10 30.8	19.7
486811 2014 JO_{4}	18.2	X	49.98486	122.71548	137.99286	6.50746	0.2414812	0.30301459	2.1952990	21	9 29.9	20.6
486812 2014 JA_{13}	17.8	X	54.97960	298.61979	206.66033	6.16389	0.1302935	0.27026247	2.3692572	21	3 17.8	19.9
486813 2014 JL_{15}	17.4	X	316.25582	166.49748	118.65766	8.27015	0.3005357	0.27361200	2.3498815	21	3 21.3	20.4
486814 2014 JW_{16}	16.2	X	26.25423	205.77472	112.55311	12.12733	0.0967827	0.17693935	3.1423394	21	10 7.7	20.5
486815 2014 JY_{16}	17.1	X	239.10724	177.83181	109.40097	7.63370	0.2442599	0.24075256	2.5591089	21	1 19.6	21.5
486816 2014 JF_{17}	18.0	X	15.06671	132.59269	103.09501	5.52645	0.1113517	0.28012117	2.3133362	21	5 20.8	20.1
486817 2014 JX_{18}	18.0	X	148.49008	56.14763	42.28261	5.35801	0.0612402	0.29102186	2.2552030	21	5 18.4	20.7
486818 2014 JD_{21}	17.1	X	8.60344	159.34576	80.46465	7.40263	0.0759644	0.29022906	2.2593081	21	5 14.3	19.3
486819 2014 JR_{22}	17.8	X	351.70729	143.70260	108.78964	3.98774	0.2072583	0.27594954	2.3365923	21	4 20.2	19.5
486820 2014 JG_{23}	16.9	X	149.25653	218.51260	111.11534	6.65794	0.1260997	0.22160952	2.7044385	21	—	—
486821 2014 JA_{24}	18.0	X	31.22004	147.35108	95.40693	6.23752	0.2111752	0.28971386	2.2619858	21	7 18.2	19.4
486822 2014 JL_{24}	17.3	X	337.30067	83.99097	171.59386	6.60843	0.0674468	0.27368567	2.3494597	21	4 16.8	19.8
486823 2014 JU_{25}	17.2	X	289.96704	151.73247	151.93245	24.15406	0.2472490	0.27421620	2.3464284	21	3 22.5	20.8
486824 2014 JD_{27}	16.3	X	54.77997	141.57297	150.73661	13.75090	0.1231604	0.17909692	3.1170515	21	10 16.4	20.7
486825 2014 JJ_{27}	15.7	X	29.39981	213.50120	111.20556	17.64642	0.1480951	0.18007963	3.1057011	21	10 30.1	20.0
486826 2014 JU_{27}	17.0	X	160.86967	181.42495	142.68416	12.95704	0.1958134	0.22607936	2.6686735	21	—	—
486827 2014 JK_{29}	16.8	X	276.81081	45.34133	234.72359	5.55540	0.1278211	0.25904153	2.4371922	21	2 15.8	20.3
486828 2014 JA_{33}	17.6	X	210.50467	113.28005	215.14607	6.09068	0.1390690	0.25394722	2.4696784	21	2 10.7	21.6
486829 2014 JC_{33}	17.8	X	107.76935	46.67696	81.51700	6.42540	0.1050931	0.28545541	2.2844265	21	5 15.1	20.6
486830 2014 JY_{36}	17.3	X	140.94451	209.79585	188.43064	7.56163	0.1213880	0.25543730	2.4600646	21	2 26.2	20.7
486831 2014 JK_{37}	17.4	X	196.36637	307.99103	100.40666	5.84235	0.1154812	0.28236332	2.3010737	21	5 11.3	20.8
486832 2014 JB_{39}	19.0	X	49.45655	148.39328	99.10351	3.78594	0.2266530	0.29788789	2.2204150	21	9 5.6	21.2
486833 2014 JW_{39}	16.7	X	249.27298	347.03050	225.29980	11.17412	0.1328732	0.22855244	2.6493874	21	—	—
486834 2014 JV_{43}	16.2	X	137.24529	230.36641	84.72493	10.67125	0.0968902	0.21526720	2.7573008	21	—	—
486835 2014 JY_{43}	18.1	X	57.64327	128.53415	115.63297	7.90356	0.1913685	0.29922660	2.2137874	21	9 8.3	20.6
486836 2014 JC_{44}	18.1	X	89.01376	354.68610	201.84390	2.75584	0.0585490	0.29959109	2.2119915	21	7 18.4	20.6
486837 2014 JC_{45}	17.9	X	80.72827	76.10608	45.97261	5.63460	0.0611881	0.27009655	2.3702275	21	3 23.2	20.6
486838 2014 JU_{46}	17.6	X	330.89594	157.15059	95.14826	12.49185	0.1261048	0.26990924	2.3713239	21	3 30.4	20.5
486839 2014 JN_{48}	18.0	X	34.48913	98.22725	87.04005	5.23412	0.1575991	0.27786024	2.3258683	21	4 13.2	19.9
486840 2014 JZ_{48}	17.6	X	47.83366	215.79557	314.96740	3.76246	0.0821987	0.27458809	2.3443094	21	4 6.6	20.0
486841 2014 JN_{49}	16.3	X	196.11984	203.83719	87.89572	13.99634	0.1667265	0.22869379	2.6482956	21	—	—
486842 2014 JR_{49}	17.6	X	41.62069	131.54560	99.21437	11.25590	0.0779536	0.28994354	2.2607910	21	6 28.4	19.7
486843 2014 JP_{51}	18.0	X	281.92665	109.07716	188.35852	1.16751	0.1937024	0.26487833	2.4012558	21	3 9.7	21.4
486844 2014 JY_{53}	17.9	X	48.34006	56.93068	103.94283	2.15710	0.1240135	0.27198263	2.3592571	21	3 31.1	20.0
486845 2014 JW_{57}	17.2	X	185.04471	250.41123	71.40699	7.39131	0.1391255	0.23940479	2.5687046	21	1 14.9	21.3
486846 2014 JF_{60}	18.2	X	7.17779	144.85319	115.84420	3.55646	0.1810897	0.28535069	2.2849854	21	6 13.5	19.7
486847 2014 JD_{62}	16.7	X	63.48992	233.91329	198.56779	14.28428	0.0859168	0.23328945	2.6134006	21	—	—
486848 2014 JY_{63}	17.6	X	291.38328	240.26559	56.17818	2.96721	0.2094257	0.26736715	2.3863310	21	3 18.2	20.8
486849 2014 JF_{67}	17.9	X	259.67397	181.80521	141.25914	4.55107	0.1033475	0.26645699	2.3917620	21	3 30.2	21.2
486850 2014 JC_{68}	18.3	X	61.04479	59.98335	131.57973	5.70565	0.0977847	0.28654621	2.2786254	21	6 4.9	20.8
486851 2014 JS_{68}	17.4	X	341.63232	11.11294	255.31440	5.44995	0.0540661	0.28142962	2.3061604	21	5 8.1	19.8
486852 2014 JS_{73}	18.6	X	32.96144	29.71119	191.94096	2.29304	0.2137977	0.28534343	2.2850242	21	6 14.4	20.1
486853 2014 JN_{74}	17.8	X	76.68610	267.55590	233.88660	4.21102	0.0973521	0.27427843	2.3460735	21	4 14.9	20.5
486854 2014 JO_{74}	18.1	X	309.24982	59.95254	185.24607	2.08522	0.1681150	0.26004752	2.4309027	21	2 4.9	21.5
486855 2014 JV_{75}	17.7	X	310.88247	42.42921	239.83732	6.09510	0.1104918	0.27218066	2.3581126	21	4 3.7	20.7
486856 2014 JH_{79}	17.4	X	21.26253	235.09113	49.49200	7.46235	0.0808773	0.30119682	2.2041229	21	8 22.3	19.6
486857 2014 KB_{1}	17.9	X	345.63244	120.69427	114.39185	7.67875	0.0759618	0.27332917	2.3515022	21	4 1.8	20.6
486858 2014 KK_{1}	19.0	X	57.57934	125.59533	142.26151	6.06081	0.2392094	0.30755479	2.1736405	21	10 20.2	21.8
486859 2014 KU_{1}	17.2	X	315.99525	132.30737	115.83355	7.04667	0.0891174	0.26616696	2.3934992	21	3 3.7	20.2
486860 2014 KW_{1}	16.1	X	219.83870	124.82007	56.13623	25.72825	0.0839687	0.20970075	2.8058819	21	11 23.0	20.0
486861 2014 KZ_{2}	18.4	X	8.27538	179.58555	97.16804	7.09433	0.1913485	0.29350026	2.2424894	21	7 17.5	19.5
486862 2014 KB_{3}	16.2	X	334.78500	58.58684	32.87145	22.40632	0.0536039	0.22553402	2.6729736	21	—	—
486863 2014 KL_{6}	17.7	X	26.58848	140.88719	52.65696	8.33951	0.0621896	0.27633701	2.3344076	21	4 8.5	20.2
486864 2014 KB_{10}	16.8	X	290.30904	50.01497	227.64162	9.20859	0.0888786	0.26242810	2.4161793	21	3 3.4	20.2
486865 2014 KH_{15}	17.6	X	354.46836	353.90966	244.40377	4.03693	0.1840133	0.27655766	2.3331657	21	4 1.6	19.6
486866 2014 KF_{18}	18.0	X	348.32017	83.56530	159.27950	3.74831	0.1879472	0.27335808	2.3513364	21	3 30.1	19.9
486867 2014 KR_{28}	17.3	X	22.16446	317.68236	190.63084	4.32334	0.1397855	0.25558550	2.4591135	21	1 21.1	19.7
486868 2014 KQ_{30}	17.1	X	276.16175	345.37293	224.03912	16.61399	0.0815851	0.23588157	2.5942194	21	—	—
486869 2014 KE_{31}	17.5	X	352.70121	207.62405	108.50308	6.30943	0.0620237	0.30205331	2.1999543	21	8 16.4	19.5
486870 2014 KM_{32}	16.9	X	120.24760	228.23650	125.79148	4.43666	0.1117258	0.22312352	2.6921907	21	—	—
486871 2014 KY_{32}	17.2	X	234.88035	215.47872	122.74319	7.30984	0.1027474	0.26252192	2.4156036	21	3 24.4	20.8
486872 2014 KA_{44}	17.4	X	203.34260	184.80342	120.87466	14.23523	0.1741726	0.23695684	2.5863654	21	1 13.3	21.7
486873 2014 KP_{44}	16.6	X	257.86252	78.06502	117.65615	28.72558	0.1756303	0.22540134	2.6740225	21	—	—
486874 2014 KG_{50}	18.0	X	318.36960	169.53712	100.69667	2.21095	0.1695581	0.27173953	2.3606639	21	3 22.6	20.7
486875 2014 KZ_{51}	17.0	X	242.60124	254.91368	39.74680	11.23128	0.1228392	0.24013771	2.5634753	21	2 9.3	21.1
486876 2014 KL_{52}	16.8	X	150.89974	248.82212	97.90063	10.61038	0.1353183	0.23031702	2.6358379	21	1 11.4	20.6
486877 2014 KL_{53}	17.4	X	40.25148	149.38083	101.62523	7.66218	0.0697397	0.29452037	2.2373082	21	7 27.9	19.6
486878 2014 KO_{53}	17.3	X	193.29297	231.43175	108.05985	7.84306	0.1752560	0.24151628	2.5537112	21	2 14.9	21.5
486879 2014 KR_{54}	17.7	X	15.36126	162.00306	128.75429	5.15215	0.2172168	0.29371834	2.2413792	21	9 5.9	19.1
486880 2014 KW_{54}	16.3	X	111.38242	160.33405	106.16016	11.04790	0.0790944	0.18746264	3.0236132	21	11 13.9	20.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
486881 2014 KH_{57}	17.9	X	338.34300	87.74221	150.22030	6.50372	0.0924846	0.26600489	2.3944713	21	3 21.4	20.5
486882 2014 KU_{58}	16.5	X	226.79312	161.90596	99.36743	15.25876	0.0968465	0.23006290	2.6377785	21	—	—
486883 2014 KH_{62}	17.6	X	330.89078	9.72186	250.34414	6.47927	0.1621998	0.27171652	2.3607972	21	3 24.0	20.3
486884 2014 KK_{62}	17.1	X	251.40575	165.72459	109.44507	9.77735	0.2301061	0.23206096	2.6226158	21	1 16.4	21.4
486885 2014 KB_{65}	17.5	X	70.39993	28.96127	87.73973	8.91435	0.0874274	0.25796660	2.4439579	21	3 7.3	20.4
486886 2014 KB_{67}	17.6	X	292.67596	207.65074	82.54970	8.97253	0.2175488	0.26288002	2.4134094	21	3 14.5	21.2
486887 2014 KT_{67}	18.1	X	19.00193	156.11803	106.45641	6.11748	0.2150762	0.28923203	2.2644972	21	7 23.3	19.4
486888 2014 KP_{70}	17.7	X	321.09834	111.31829	176.91131	5.58710	0.1826652	0.27358428	2.3500402	21	4 19.5	20.1
486889 2014 KQ_{72}	16.9	X	186.42877	241.89153	124.21739	8.52590	0.2716657	0.24536293	2.5269506	21	3 16.9	21.5
486890 2014 KO_{78}	18.1	X	27.80795	153.46089	53.61946	3.53876	0.1129945	0.27846842	2.3224805	21	4 29.5	20.0
486891 2014 KT_{78}	17.9	X	73.64348	153.87790	51.38262	8.31019	0.0398536	0.29284608	2.2458278	21	7 6.3	20.5
486892 2014 KR_{80}	17.7	X	12.91694	344.17542	239.88099	1.93998	0.0964321	0.27743296	2.3282557	21	4 26.3	19.7
486893 2014 KB_{81}	17.9	X	355.73190	112.46444	86.35975	2.17573	0.1122559	0.26237187	2.4165245	21	2 19.2	20.4
486894 2014 KC_{81}	17.5	X	127.09677	43.44422	68.44841	6.76596	0.0555654	0.27894398	2.3198401	21	5 10.9	20.3
486895 2014 KL_{86}	16.2	X	246.95265	88.69816	207.44482	12.22464	0.1987845	0.24394129	2.5367588	21	2 2.5	20.7
486896 2014 KT_{87}	17.7	X	305.39305	119.19811	130.41612	6.90829	0.0964883	0.26124966	2.4234398	21	2 17.5	20.7
486897 2014 KX_{87}	16.5	X	248.74199	357.21060	250.96734	9.26705	0.2201299	0.22406992	2.6846047	21	—	—
486898 2014 KF_{93}	16.6	X	265.95084	284.71973	171.58260	9.75405	0.0184126	0.18236770	3.0796694	21	10 13.4	20.9
486899 2014 KF_{94}	17.2	X	290.78679	129.74019	145.58740	16.38047	0.2305461	0.25997905	2.4313295	21	2 15.7	20.6
486900 2014 KJ_{94}	18.2	X	337.50470	191.86135	70.63567	5.54309	0.1975530	0.27253442	2.3560715	21	4 8.8	20.4
486901 2014 KT_{94}	17.1	X	201.94441	194.11560	111.22019	12.80797	0.0759133	0.23600919	2.5932841	21	1 8.4	20.8
486902 2014 KF_{95}	18.3	X	86.73153	181.99375	23.73019	5.65916	0.1226910	0.30061045	2.2069881	21	8 11.9	21.0
486903 2014 KQ_{95}	17.6	X	99.02726	276.40345	203.81038	9.26145	0.1611904	0.27496746	2.3421525	21	4 30.9	20.3
486904 2014 KJ_{98}	18.5	X	46.99477	11.50427	206.18018	3.77167	0.2106170	0.28773262	2.2723575	21	7 8.8	20.4
486905 2014 LA_{1}	17.0	X	237.47781	162.68030	130.40742	8.45279	0.1871501	0.23155394	2.6264427	21	1 27.6	21.2
486906 2014 LS_{1}	17.8	X	248.44197	230.38339	81.67551	7.11296	0.1207677	0.25875477	2.4389925	21	3 5.1	21.5
486907 2014 LX_{2}	16.9	X	100.48184	321.53840	79.38906	15.94628	0.1492570	0.23756874	2.5819224	21	1 19.1	20.2
486908 2014 LM_{6}	17.9	X	292.30840	119.33820	149.82143	2.51953	0.1294227	0.25924900	2.4358918	21	2 21.8	21.2
486909 2014 LE_{8}	16.9	X	12.54367	133.26343	102.74905	7.27477	0.0620670	0.27984740	2.3148447	21	5 17.3	19.3
486910 2014 LY_{11}	17.2	X	227.74553	56.08158	242.51477	3.55632	0.1986196	0.23936563	2.5689847	21	1 23.9	21.6
486911 2014 LC_{12}	17.9	X	19.75370	328.39844	261.32266	1.94920	0.1382209	0.27989348	2.3145906	21	5 19.7	19.6
486912 2014 LE_{13}	17.7	X	313.31633	31.18524	258.91044	5.69833	0.1082053	0.27208291	2.3586774	21	4 19.2	20.5
486913 2014 LG_{14}	17.5	X	13.17318	88.40278	103.08458	5.48968	0.0385098	0.26427232	2.4049253	21	3 17.2	20.3
486914 2014 LA_{16}	17.0	X	244.60798	165.47613	114.86983	17.31374	0.1718406	0.23127609	2.6285459	21	1 19.4	21.2
486915 2014 LP_{17}	17.0	X	202.31754	104.28467	227.38621	15.73492	0.2305971	0.23765912	2.5812678	21	2 7.3	21.8
486916 2014 LS_{19}	18.1	X	24.97436	20.10216	162.92227	6.21725	0.0733410	0.26466566	2.4025420	21	3 20.7	20.5
486917 2014 LP_{23}	18.1	X	19.14671	73.38936	161.56956	4.90178	0.1489422	0.28062136	2.3105865	21	5 29.2	19.9
486918 2014 LC_{28}	16.5	X	192.75975	216.40198	79.12426	32.49461	0.1614818	0.22794992	2.6540540	21	—	—
486919 2014 MK_{2}	18.0	X	348.62760	161.59186	98.31234	2.83407	0.1627563	0.27754122	2.3276503	21	4 30.6	19.9
486920 2014 MK_{4}	15.4	X	47.21576	228.99210	105.24120	22.41461	0.1255380	0.17252847	3.1956721	21	11 28.3	20.1
486921 2014 MB_{7}	17.1	X	259.64634	38.02203	253.69421	15.62518	0.2009878	0.25261688	2.4783415	21	2 4.1	21.5
486922 2014 ML_{9}	17.5	X	138.43553	121.98249	213.52235	10.58729	0.0887237	0.22052913	2.7132641	21	—	—
486923 2014 MH_{15}	17.0	X	227.28496	73.91931	235.40818	11.90334	0.1914905	0.23186637	2.6240828	21	2 2.8	21.7
486924 2014 MJ_{17}	16.1	X	81.77504	219.70125	142.85652	11.98263	0.1410081	0.18465573	3.0541770	21	—	—
486925 2014 MQ_{21}	17.9	X	331.27830	44.56249	245.80826	5.13038	0.1536963	0.27769082	2.3268142	21	5 13.9	20.2
486926 2014 MX_{21}	16.7	X	234.63271	201.49507	90.05525	14.16424	0.1567541	0.24006778	2.5639731	21	1 24.4	20.9
486927 2014 MM_{22}	17.3	X	249.92070	330.64399	308.35722	6.87063	0.2298348	0.22995758	2.6385838	21	1 20.1	21.7
486928 2014 MR_{22}	16.1	X	278.96437	340.04746	262.54210	13.64951	0.0632564	0.22652598	2.6651646	21	1 14.8	20.1
486929 2014 MA_{23}	17.1	X	161.42228	176.53363	189.56057	15.06878	0.1325045	0.24096368	2.5576139	21	2 9.7	21.2
486930 2014 MW_{23}	16.6	X	122.96676	48.50651	295.98584	9.02608	0.0710777	0.20422616	2.8558044	21	—	—
486931 2014 MO_{25}	16.8	X	240.72693	335.95103	288.56137	7.26431	0.0602536	0.22449448	2.6812189	21	1 2.5	20.7
486932 2014 MN_{31}	16.2	X	78.28763	15.18747	311.48629	7.52568	0.1087435	0.17796930	3.1302041	21	12 17.9	20.9
486933 2014 MV_{31}	17.3	X	25.26382	318.64119	293.38643	5.58071	0.0920905	0.27552319	2.3390021	21	7 4.3	19.7
486934 2014 MP_{32}	17.3	X	209.47959	169.65614	136.42766	9.73702	0.1197423	0.23877357	2.5732297	21	1 17.4	21.2
486935 2014 MP_{35}	18.0	X	56.91431	357.88625	235.61056	5.87178	0.1437865	0.29508279	2.2344645	21	8 6.9	20.4
486936 2014 MF_{36}	16.8	X	120.16438	228.89995	126.70392	10.09616	0.1229220	0.20229049	2.8739932	21	—	—
486937 2014 MH_{36}	15.8	X	25.58913	117.07958	304.91326	8.98046	0.0455544	0.19280801	2.9674677	21	—	—
486938 2014 MC_{37}	16.7	X	193.89523	243.35500	112.55417	27.76973	0.0544847	0.23663275	2.5887263	21	3 10.3	20.9
486939 2014 MU_{37}	17.2	X	213.39394	15.10336	323.44534	12.30933	0.1131651	0.23208215	2.6224561	21	2 28.5	21.3
486940 2014 MV_{37}	16.4	X	49.79138	241.20287	132.20943	14.39094	0.1668869	0.17538846	3.1608365	21	—	—
486941 2014 MZ_{37}	16.6	X	116.70481	208.25510	109.78621	8.98221	0.1399939	0.18655773	3.0333828	21	—	—
486942 2014 MQ_{43}	17.5	X	9.03020	16.85806	247.13959	2.89788	0.2509589	0.27931310	2.3177958	21	6 27.6	18.3
486943 2014 MW_{48}	16.5	X	283.76094	144.81456	102.06761	15.65339	0.0617597	0.23526395	2.5987578	21	1 28.2	20.1
486944 2014 MZ_{48}	16.6	X	72.78786	301.98850	33.40666	2.62752	0.1698214	0.18083238	3.0970764	21	12 29.8	21.3
486945 2014 MO_{49}	17.7	X	4.76856	178.33739	82.20449	3.97219	0.1974508	0.27583902	2.3372163	21	6 6.8	18.9
486946 2014 MG_{50}	16.0	X	16.21753	150.02914	263.94700	13.84724	0.0453884	0.19112595	2.9848529	21	—	—
486947 2014 MQ_{50}	15.9	X	9.24521	137.47406	247.07349	9.34193	0.0906662	0.17426076	3.1744585	21	11 28.1	20.0
486948 2014 MO_{51}	16.6	X	214.66770	73.41216	251.63955	12.63813	0.0857483	0.23126883	2.6286009	21	2 10.3	20.8
486949 2014 MV_{52}	16.6	X	305.64739	325.18592	287.40658	14.60662	0.0979266	0.24051512	2.5607929	21	2 17.9	20.2
486950 2014 MH_{53}	17.4	X	27.11920	56.33196	228.67244	6.17235	0.1066256	0.28756432	2.2732440	21	8 27.9	19.8
486951 2014 MP_{56}	17.8	X	269.39224	189.45856	75.82800	3.42270	0.1465657	0.23496954	2.6009280	21	1 25.9	21.9
486952 2014 MB_{60}	16.1	X	60.46539	55.29569	281.38426	25.37864	0.2069824	0.17426903	3.1743580	21	12 23.1	20.8
486953 2014 MS_{61}	17.0	X	267.46932	259.57283	69.05973	4.56597	0.1964802	0.25347751	2.4727285	21	4 6.9	20.7
486954 2014 MN_{63}	17.0	X	92.40237	307.23690	125.46104	22.59642	0.0428681	0.22690338	2.6622086	21	2 4.6	20.5
486955 2014 MS_{63}	16.7	X	68.41538	232.95135	125.08597	19.94024	0.1111529	0.18509927	3.0492960	21	—	—
486956 2014 MA_{64}	17.0	X	53.39935	117.36687	263.80759	6.76106	0.0865003	0.18704931	3.0280658	21	—	—
486957 2014 MK_{66}	16.3	X	123.72704	36.83065	249.88610	8.67821	0.0358950	0.17860460	3.1227769	21	12 13.2	20.7
486958 Arrokoth	11.1	X	316.24805	177.62963	159.11764	2.44703	0.0440194	0.00331139	44.5788396	21	7 11.5	27.5
486959 2014 NX_{1}	16.3	X	105.01121	97.48883	141.84262	13.56846	0.1149546	0.17414218	3.1758994	21	10 8.2	21.2
486960 2014 NJ_{2}	16.8	X	179.87615	27.06013	259.07736	14.22097	0.1174090	0.20367688	2.8609366	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
486961 2014 NC_4	16.9	X	151.70843	69.86427	277.02382	8.21193	0.1074609	0.21904727	2.7254872	21	1 10.8	20.8
486962 2014 NE_5	17.2	X	225.53362	183.81664	112.72189	10.15284	0.1508879	0.23134315	2.6280379	21	1 22.7	21.4
486963 2014 NK_8	17.9	X	325.74518	353.83703	269.53882	2.14693	0.2024518	0.26179470	2.4200750	21	3 17.5	20.5
486964 2014 NL_9	17.2	X	68.46502	335.40351	111.11315	22.91851	0.0411252	0.22751582	2.6574289	21	1 19.9	20.5
486965 2014 NO_{13}	16.0	X	22.23900	260.44894	107.48382	18.02759	0.2093316	0.17115777	3.2127108	21	12 13.1	20.1
486966 2014 NX_{15}	17.2	X	324.30189	324.44076	248.10406	12.36316	0.1129153	0.23645088	2.5900536	21	1 22.4	20.8
486967 2014 NU_{16}	17.0	X	157.40529	113.78227	228.00392	13.71592	0.1656729	0.22770455	2.6559603	21	1 12.4	21.3
486968 2014 NA_{17}	16.2	X	60.79257	148.63383	208.95560	9.99847	0.2918602	0.19012105	2.9953615	21	—	—
486969 2014 NX_{17}	17.5	X	66.18513	331.49124	151.62090	6.23747	0.1840163	0.25757293	2.4464475	21	3 18.9	19.7
486970 2014 NN_{18}	16.4	X	121.71495	106.75766	121.26523	10.37188	0.0318961	0.17581236	3.1557537	21	10 5.4	21.1
486971 2014 NO_{18}	17.7	X	292.31300	51.58377	218.27335	6.19677	0.2134497	0.25508849	2.4623067	21	2 10.5	21.5
486972 2014 NQ_{18}	17.5	X	35.56146	25.62326	192.00681	23.37019	0.1265635	0.28209905	2.3025106	21	6 2.8	20.2
486973 2014 NH_{20}	17.1	X	280.03142	8.52891	218.22645	11.38482	0.1352632	0.22396106	2.6854745	21	—	—
486974 2014 NY_{20}	17.2	X	330.19835	92.88086	163.84456	14.64816	0.1608137	0.25785612	2.4446560	21	3 26.4	20.0
486975 2014 NQ_{26}	17.4	X	213.62390	108.66600	162.31973	3.35003	0.0426730	0.21538859	2.7562647	21	—	—
486976 2014 NV_{26}	16.7	X	111.53412	110.64693	286.90520	13.16523	0.0834370	0.22002454	2.7174109	21	1 21.3	20.3
486977 2014 NE_{30}	17.1	X	249.47569	31.66377	204.28870	5.16941	0.0963073	0.21680050	2.7442849	21	—	—
486978 2014 NP_{30}	16.7	X	155.49564	145.20995	149.63490	11.57357	0.1099026	0.19948967	2.9008311	21	—	—
486979 2014 NW_{30}	15.8	X	232.23770	228.94328	278.08431	10.84783	0.0417461	0.17077217	3.2175452	21	10 23.9	20.6
486980 2014 NT_{32}	16.5	X	246.90968	156.75541	121.68167	15.92264	0.1270374	0.23246143	2.6196028	21	1 21.0	20.5
486981 2014 NA_{33}	17.2	X	189.76444	96.96614	193.18987	4.01379	0.0343444	0.21189402	2.7864863	21	—	—
486982 2014 NW_{34}	15.8	X	91.76044	253.01581	78.19530	16.84486	0.2585515	0.18120282	3.0928540	21	—	—
486983 2014 NZ_{39}	15.6	X	321.15591	196.30638	244.39789	16.03065	0.0958173	0.17386006	3.1793341	21	11 26.4	19.5
486984 2014 NQ_{41}	16.5	X	129.54439	94.54987	251.05693	15.67001	0.0542713	0.20370157	2.8607054	21	—	—
486985 2014 NC_{42}	16.4	X	117.07901	75.45355	225.61240	10.84132	0.0397104	0.18318306	3.0705242	21	12 23.1	21.0
486986 2014 NM_{43}	17.1	X	292.07595	38.12602	203.11112	13.41127	0.2124261	0.23579442	2.5948586	21	1 9.4	21.4
486987 2014 NN_{45}	16.2	X	63.73640	190.44279	202.42475	11.58357	0.0539334	0.19700597	2.9251611	21	—	—
486988 2014 NP_{45}	17.0	X	290.56472	338.05556	278.41546	12.76457	0.1462487	0.23754230	2.5821140	21	2 1.4	20.9
486989 2014 NE_{46}	16.7	X	85.24662	115.71618	242.05878	8.40148	0.0722364	0.18859935	3.0114518	21	—	—
486990 2014 NX_{46}	16.1	X	351.25758	199.53952	238.83170	15.32418	0.1995886	0.18108736	3.0941684	21	—	—
486991 2014 NP_{47}	17.2	X	300.86345	359.95673	234.73238	14.13357	0.1070435	0.23544860	2.5973988	21	1 21.5	21.1
486992 2014 NA_{48}	16.6	X	253.18754	151.40601	93.12184	7.37856	0.1273042	0.22706116	2.6609751	21	—	—
486993 2014 NF_{51}	17.9	X	346.39976	44.84179	184.32102	1.42804	0.1324693	0.25353197	2.4723743	21	3 16.8	20.6
486994 2014 NU_{52}	15.8	X	307.37203	119.85770	329.42142	18.09878	0.1140354	0.17034680	3.2228993	21	11 6.4	20.3
486995 2014 NG_{54}	17.1	X	264.53379	219.29686	64.82838	3.56871	0.0826553	0.23546794	2.5972566	21	2 19.8	20.8
486996 2014 NK_{54}	17.0	X	268.33595	328.17535	329.76081	14.68741	0.1159191	0.24241145	2.5474204	21	3 4.5	20.8
486997 2014 NQ_{54}	16.2	X	28.64541	264.80365	110.93281	16.05991	0.1317476	0.17124269	3.2116486	21	12 19.9	20.6
486998 2014 NL_{55}	15.8	X	37.09438	61.05977	329.51953	23.10175	0.1516198	0.17860259	3.1228004	21	—	—
486999 2014 NO_{55}	16.0	X	306.85076	188.43497	343.21161	14.87543	0.0794908	0.20603619	2.8390544	21	—	—
487000 2014 NE_{56}	16.4	X	103.29525	226.63545	104.23172	12.35134	0.1361150	0.18454904	3.0553539	21	—	—
487001 2014 NX_{56}	16.5	X	229.35828	174.75445	83.49223	10.05816	0.2128306	0.21563547	2.7541605	21	—	—
487002 2014 NG_{57}	16.0	X	270.45806	72.05744	100.63819	14.19559	0.1120050	0.19118284	2.9842609	21	—	—
487003 2014 NK_{60}	15.8	X	87.19131	208.45340	127.18964	18.95608	0.1930684	0.17843716	3.1247301	21	—	—
487004 2014 ND_{62}	17.4	X	331.26156	301.83454	315.32389	4.50458	0.1536003	0.26134911	2.4228249	21	3 24.8	20.2
487005 2014 NF_{62}	16.9	X	234.07486	304.87721	310.86924	12.43759	0.1335653	0.22181809	2.7027430	21	—	—
487006 2014 NK_{62}	16.8	X	153.56186	54.65746	312.16950	12.48395	0.1495656	0.22417801	2.6837417	21	2 8.9	20.8
487007 2014 NU_{62}	17.9	X	71.71453	123.94553	75.89622	5.00996	0.1855432	0.28305957	2.2972988	21	7 20.7	20.5
487008 2014 OB	17.0	X	295.24452	156.19617	80.16313	5.99617	0.1639778	0.23938980	2.5688118	21	1 14.3	20.8
487009 2014 OO	17.1	X	263.86547	302.92776	299.61803	5.20442	0.1659215	0.22936681	2.6431126	21	—	—
487010 2014 OQ_1	16.7	X	230.59182	25.69794	254.29891	12.94015	0.2274763	0.22392738	2.6857438	21	1 5.6	21.5
487011 2014 OK_2	15.8	X	294.17988	175.30999	190.71242	13.82225	0.3133570	0.12580634	3.9445823	21	6 12.4	21.5
487012 2014 OM_3	16.3	X	105.03851	349.58423	313.05919	8.26284	0.1732253	0.18529145	3.0471872	21	12 23.4	21.2
487013 2014 OM_4	16.3	X	68.67004	44.61188	289.36431	9.37453	0.0619747	0.17854077	3.1235211	21	12 9.9	20.9
487014 2014 ON_4	16.3	X	41.85585	79.74029	290.48512	9.59358	0.1197367	0.17880523	3.1204405	21	12 29.6	20.6
487015 2014 OQ_4	16.9	X	53.83938	215.66025	149.94706	5.84357	0.0822866	0.18333775	3.0687967	21	—	—
487016 2014 OA_5	17.7	X	335.56493	40.37446	164.66465	4.04635	0.0692570	0.23937605	2.5689102	21	2 6.2	20.8
487017 2014 OY_{11}	16.5	X	75.35912	74.39767	304.03693	15.60099	0.0894743	0.19849745	2.9104898	21	—	—
487018 2014 OS_{12}	17.3	X	181.82483	1.20886	316.70582	1.75521	0.0793908	0.21906721	2.7253218	21	1 5.9	21.4
487019 2014 OC_{14}	17.3	X	248.41620	149.07993	112.40262	7.32544	0.0854743	0.22609382	2.6685597	21	1 5.3	21.4
487020 2014 OP_{15}	17.7	X	303.61283	339.44470	294.02451	1.22143	0.2007852	0.25411713	2.4685774	21	3 3.3	21.1
487021 2014 OD_{18}	16.5	X	35.67108	74.70119	291.97718	9.73173	0.1304510	0.17608839	3.1524551	21	12 18.2	20.8
487022 2014 OW_{18}	17.2	X	281.74137	32.85106	146.70896	5.16392	0.1009696	0.20827710	2.8186536	21	—	—
487023 2014 OX_{18}	17.5	X	49.59279	317.26532	138.59319	5.35253	0.0834186	0.21999876	2.7176231	21	1 8.4	20.6
487024 2014 OZ_{18}	17.0	X	82.19177	56.90326	289.90040	6.37616	0.0748190	0.18924883	3.0045579	21	—	—
487025 2014 OD_{20}	16.8	X	103.78985	239.56794	127.53371	6.88462	0.0774056	0.20483843	2.8501109	21	—	—
487026 2014 OT_{22}	18.3	X	30.55856	356.67540	222.97878	1.71663	0.1618934	0.26968316	2.3726490	21	5 30.3	20.1
487027 2014 OF_{23}	16.4	X	287.84341	171.00111	300.49258	12.08898	0.0180913	0.17910933	3.1169075	21	11 24.1	20.9
487028 2014 OK_{25}	17.5	X	201.91620	177.60930	122.56272	6.24064	0.0564216	0.21966538	2.7203720	21	1 4.4	21.5
487029 2014 OE_{27}	16.6	X	356.13274	165.37683	307.30938	14.31544	0.0920841	0.20470540	2.8513456	21	—	—
487030 2014 OJ_{30}	16.3	X	3.96672	283.46481	113.29774	11.85315	0.0952721	0.17603045	3.1531467	21	12 8.1	20.4
487031 2014 OV_{30}	17.2	X	81.61512	289.30014	107.70314	6.26182	0.0273803	0.20958609	2.8069052	21	—	—
487032 2014 OW_{30}	16.9	X	294.39591	214.05896	313.13543	5.86915	0.0234564	0.20481747	2.8503054	21	—	—
487033 2014 OA_{34}	17.4	X	299.72296	209.87729	26.25484	3.71371	0.0362383	0.23441280	2.6050446	21	2 7.1	20.8
487034 2014 OZ_{35}	17.2	X	311.98282	235.13396	322.78866	4.24678	0.0699699	0.22511995	2.6762503	21	1 1.1	20.8
487035 2014 OV_{36}	17.7	X	228.21128	154.55664	112.86941	6.51060	0.1186112	0.21940201	2.7225487	21	—	—
487036 2014 OG_{37}	17.3	X	113.00438	279.79324	126.15704	12.18949	0.0882506	0.22158057	2.7046740	21	2 5.2	20.8
487037 2014 OF_{39}	17.2	X	47.40829	27.10838	38.78994	2.34595	0.0654103	0.20441759	2.8540213	21	—	—
487038 2014 OT_{39}	16.2	X	299.20175	350.52187	112.75734	8.58673	0.1224760	0.17655319	3.1469197	21	11 22.1	20.2
487039 2014 ON_{40}	16.0	X	335.84235	142.60178	316.91477	15.34594	0.0660411	0.19016325	2.9949184	21	—	—
487040 2014 OG_{42}	16.6	X	256.74382	179.70770	332.12788	10.31335	0.0323483	0.18250521	3.0781223	21	12 3.6	21.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
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487041 2014 OP_{44}	16.6	X	21.03492	265.81558	133.20718	9.98844	0.0511727	0.18617831	3.0375026	21	12 29.9	20.8
487042 2014 OM_{46}	17.8	X	76.64653	7.68731	47.34234	0.88468	0.0687773	0.21350572	2.7724456	21	—	—
487043 2014 OP_{47}	16.5	X	134.19520	73.31995	3.40649	1.82280	0.0906229	0.24291974	2.5438657	21	4 8.5	19.9
487044 2014 OB_{48}	16.9	X	323.17777	26.22671	125.43801	9.90442	0.0887880	0.20910321	2.8112248	21	—	—
487045 2014 OS_{48}	17.9	X	27.88890	182.90180	44.06714	3.17265	0.1324154	0.26894847	2.3769680	21	6 2.3	20.0
487046 2014 OW_{48}	17.0	X	220.30855	295.98769	324.46091	3.75325	0.0152909	0.21309453	2.7760110	21	—	—
487047 2014 OP_{49}	16.4	X	60.39792	263.59620	96.33469	6.19896	0.1536319	0.18119216	3.0929752	21	—	—
487048 2014 OW_{51}	16.9	X	52.32127	298.46702	119.89200	10.29632	0.0791804	0.20206052	2.8761735	21	—	—
487049 2014 OW_{55}	16.4	X	14.27939	88.42283	317.48596	25.49556	0.1626119	0.17733753	3.1376339	21	—	—
487050 2014 OD_{56}	16.8	X	63.61684	295.51033	96.52371	2.26242	0.1373516	0.19238840	2.9717810	21	—	—
487051 2014 OR_{56}	16.9	X	308.33505	13.98268	119.46812	12.23944	0.0591998	0.19242551	2.9713988	21	—	—
487052 2014 OP_{57}	16.6	X	75.15157	9.11249	326.53305	13.25963	0.1273596	0.17889076	3.1194458	21	12 28.8	21.4
487053 2014 OJ_{58}	16.2	X	38.36439	243.76877	109.21745	11.27532	0.0115692	0.17380435	3.1800134	21	11 21.8	20.8
487054 2014 OW_{58}	16.4	X	171.69261	314.07596	327.18891	10.44820	0.0359990	0.19906548	2.9049506	21	—	—
487055 2014 OR_{65}	17.4	X	240.14507	169.37071	109.48728	6.93830	0.1458427	0.22569199	2.6717262	21	1 15.6	21.8
487056 2014 OA_{73}	15.8	X	94.75351	199.91917	136.27001	10.23233	0.0785369	0.18672050	3.0316197	21	—	—
487057 2014 OR_{79}	17.1	X	62.77868	24.25548	343.45684	8.23431	0.0974890	0.19009791	2.9956046	21	—	—
487058 2014 OC_{80}	16.8	X	88.05126	27.82470	331.76006	11.27641	0.0648176	0.19835340	2.9118988	21	—	—
487059 2014 OR_{85}	17.4	X	353.96972	120.88177	101.46140	7.44772	0.0524565	0.25432450	2.4672354	21	4 2.3	20.4
487060 2014 OV_{87}	17.6	X	297.92794	358.32162	250.63505	5.43702	0.0793682	0.24104281	2.5570542	21	2 10.1	21.1
487061 2014 OH_{89}	16.6	X	79.64736	275.95370	140.38869	13.86826	0.0562812	0.21608732	2.7503198	21	—	—
487062 2014 OJ_{89}	16.1	X	10.15068	251.84050	139.23341	15.62387	0.1423346	0.17466771	3.1695259	21	12 15.2	20.3
487063 2014 OJ_{90}	16.3	X	173.75261	33.10260	253.39494	4.94146	0.0596784	0.20438253	2.8543476	21	—	—
487064 2014 OG_{92}	17.4	X	310.61032	69.18665	148.74947	15.62411	0.0709773	0.23338352	2.6126982	21	1 21.4	21.0
487065 2014 OL_{93}	17.4	X	230.25875	171.45301	138.08288	11.95409	0.1057470	0.23416215	2.6069033	21	2 12.3	21.4
487066 2014 OO_{93}	17.4	X	234.28023	173.66397	137.45888	11.70191	0.1280928	0.23595532	2.5936789	21	2 17.6	21.3
487067 2014 ON_{96}	16.6	X	256.31623	154.49266	152.73887	14.51240	0.1687193	0.23559318	2.5963361	21	3 3.5	20.7
487068 2014 OF_{98}	16.6	X	158.81926	357.85566	325.62948	16.39791	0.2274553	0.20283774	2.8688216	21	1 7.8	21.4
487069 2014 OK_{98}	16.7	X	278.21479	271.40894	320.99796	8.31414	0.0979320	0.21571491	2.7534843	21	1 3.5	20.8
487070 2014 OV_{98}	16.6	X	174.62552	302.38324	300.39265	6.00457	0.1027626	0.17947770	3.1126411	21	12 14.3	21.4
487071 2014 OM_{99}	16.6	X	152.68492	328.39362	319.33142	8.75009	0.1236561	0.18839933	3.0135830	21	—	—
487072 2014 OP_{99}	17.4	X	349.94862	343.49252	317.70597	5.47543	0.1658755	0.27313937	2.3525915	21	7 13.0	19.2
487073 2014 OL_{100}	16.7	X	31.84204	269.84078	143.72800	11.51233	0.0566029	0.18427993	3.0583278	21	—	—
487074 2014 OV_{100}	15.8	X	18.22741	258.66863	153.13045	15.38370	0.1645916	0.17345804	3.1842446	21	—	—
487075 2014 OE_{102}	16.1	X	282.37936	352.10908	151.88609	12.93930	0.0603474	0.17672033	3.1449352	21	12 23.8	20.5
487076 2014 OX_{103}	16.8	X	222.44430	306.79908	338.33181	8.67839	0.0989142	0.21424967	2.7660240	21	1 10.8	21.1
487077 2014 OQ_{105}	16.2	X	240.83400	251.96544	321.35372	13.85112	0.0989810	0.20417521	2.8562795	21	—	—
487078 2014 OD_{106}	16.7	X	25.71632	300.24975	125.80890	12.75373	0.1358370	0.19246265	2.9710165	21	—	—
487079 2014 OO_{109}	15.8	X	300.70988	332.69500	115.38618	19.94261	0.1076365	0.17047229	3.2213174	21	11 11.7	20.3
487080 2014 OJ_{111}	17.2	X	333.91316	260.06221	49.56956	6.70319	0.1251333	0.27627607	2.3347508	21	6 23.9	19.5
487081 2014 OK_{113}	16.8	X	57.58203	260.88920	117.84141	11.54853	0.1080043	0.19090426	2.9871634	21	—	—
487082 2014 OZ_{117}	16.1	X	67.65794	217.08928	114.90408	10.95358	0.1076949	0.17709247	3.1405279	21	12 13.2	20.7
487083 2014 OH_{119}	17.5	X	87.14205	344.74174	99.70744	4.10857	0.0166014	0.23140164	2.6275950	21	2 8.9	20.9
487084 2014 OM_{119}	17.3	X	95.88909	73.22421	321.33766	5.55116	0.0439083	0.21345838	2.7728555	21	—	—
487085 2014 OH_{120}	16.9	X	37.50226	341.22968	62.00111	3.63964	0.1109503	0.19036336	2.9928192	21	—	—
487086 2014 OR_{120}	16.2	X	252.43003	341.42701	58.64932	4.23809	0.2503979	0.12481628	3.9654142	21	6 17.8	22.3
487087 2014 OD_{121}	16.4	X	291.34637	5.22464	102.87493	10.19234	0.0500497	0.17786509	3.1314267	21	11 24.9	20.7
487088 2014 OA_{123}	16.2	X	292.62594	160.08331	321.58462	11.88346	0.1364323	0.18341633	3.0679201	21	12 1.0	20.3
487089 2014 OF_{124}	17.2	X	215.48908	352.45780	281.29062	5.28361	0.0268381	0.21560182	2.7544471	21	—	—
487090 2014 OV_{125}	17.5	X	176.13256	284.45722	115.21951	15.03183	0.0290808	0.24680350	2.5171079	21	4 12.3	21.2
487091 2014 OU_{126}	17.3	X	123.49448	312.40498	17.63936	2.04131	0.0354453	0.19815900	2.9138030	21	—	—
487092 2014 OJ_{127}	16.1	X	42.92929	258.36248	104.64154	12.06010	0.0867426	0.17657407	3.1466717	21	12 17.5	20.5
487093 2014 OC_{130}	16.9	X	57.64984	100.41119	327.95990	6.38812	0.0849179	0.21255892	2.7806724	21	—	—
487094 2014 OO_{130}	17.0	X	292.48408	268.58712	341.03423	11.34581	0.1669014	0.23284966	2.6166902	21	1 30.7	20.9
487095 2014 OC_{133}	16.1	X	310.01250	3.47638	106.73643	10.70571	0.0944563	0.18846669	3.0128649	21	12 20.5	19.9
487096 2014 OW_{137}	17.6	X	317.88935	0.45603	253.93129	0.28582	0.1469431	0.25298508	2.4759362	21	3 5.2	20.7
487097 2014 OQ_{138}	17.3	X	10.48705	291.37017	279.42606	3.75588	0.1335852	0.25782576	2.4448479	21	3 31.4	19.7
487098 2014 OE_{139}	18.0	X	43.95822	337.09340	242.81198	1.50559	0.1199402	0.27360668	2.3499119	21	6 21.6	20.3
487099 2014 OM_{139}	17.2	X	213.88024	140.72072	143.51394	5.43513	0.0829385	0.21952494	2.7215321	21	—	—
487100 2014 OO_{140}	17.5	X	332.49464	73.00521	121.12579	11.34697	0.0896850	0.23277993	2.6172128	21	1 17.7	20.7
487101 2014 OD_{141}	16.8	X	63.36923	250.52595	116.58806	10.51105	0.1148554	0.18660144	3.0329091	21	—	—
487102 2014 OH_{146}	18.8	X	357.30270	94.71076	147.79975	2.78627	0.1717209	0.26443039	2.4039668	21	4 22.1	20.8
487103 2014 OC_{148}	18.1	X	20.81391	213.06679	20.94324	2.73658	0.1603038	0.27169355	2.3609303	21	5 30.9	19.9
487104 2014 OO_{150}	17.3	X	163.08837	289.01192	349.07793	1.49951	0.0467408	0.19832642	2.9121629	21	—	—
487105 2014 OH_{151}	17.0	X	171.00181	195.01920	69.77243	6.76924	0.0252144	0.19649323	2.9302476	21	—	—
487106 2014 OR_{158}	17.3	X	303.46646	141.27051	77.26147	9.41303	0.0852618	0.23260204	2.6185470	21	1 13.0	20.9
487107 2014 OS_{158}	16.2	X	69.11556	345.32140	351.89751	9.20072	0.0881490	0.18129571	3.0917974	21	12 17.9	20.8
487108 2014 OZ_{158}	17.3	X	271.90611	171.23138	44.80071	6.84140	0.0216547	0.21621837	2.7492084	21	—	—
487109 2014 OC_{159}	16.3	X	76.64292	354.82032	350.80834	8.65099	0.0961725	0.18657637	3.0331808	21	—	—
487110 2014 OJ_{160}	16.8	X	85.31392	2.26320	69.98131	8.30334	0.0864413	0.22337188	2.6901947	21	2 2.7	20.3
487111 2014 OT_{161}	17.5	X	275.75884	188.21489	92.71163	7.52043	0.1050198	0.24379987	2.5377397	21	2 26.2	21.2
487112 2014 OY_{162}	17.1	X	173.13517	296.69240	5.94694	5.67805	0.0456098	0.21003606	2.8028949	21	—	—
487113 2014 OW_{164}	17.1	X	20.74217	29.55338	82.80696	7.04314	0.0348296	0.21587762	2.7521006	21	—	—
487114 2014 OH_{167}	16.8	X	47.94522	25.23116	349.12554	9.93719	0.1267890	0.18279985	3.0748139	21	—	—
487115 2014 ON_{167}	16.2	X	141.53971	314.56474	340.51147	12.78117	0.0135138	0.19478538	2.9473507	21	—	—
487116 2014 OE_{169}	16.7	X	156.88601	326.91623	334.16040	14.64674	0.1368919	0.20235458	2.8733863	21	—	—
487117 2014 OQ_{169}	16.8	X	51.40233	259.68549	100.97030	14.51039	0.1604984	0.17751369	3.1355579	21	—	—
487118 2014 OA_{171}	16.6	X	354.34327	50.02793	96.41855	9.87892	0.0954552	0.21986253	2.7187456	21	—	—
487119 2014 OP_{171}	18.0	X	343.42231	226.52515	41.31273	5.10613	0.1270603	0.26566235	2.3965291	21	5 7.2	20.1
487120 2014 OS_{171}	17.0	X	240.56086	160.42343	89.81231	8.10888	0.0472769	0.21593671	2.7515985	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
487121 2014 OB_{172}	17.5	X	355.39225	84.25327	98.32697	9.91428	0.0683808	0.23545582	2.5973457	21	2 8.8	20.7
487122 2014 OU_{172}	17.2	X	118.78859	317.07342	84.17667	7.04284	0.0473251	0.22327441	2.6909776	21	2 1.4	20.8
487123 2014 OZ_{172}	16.8	X	0.66796	301.73067	105.87414	13.21952	0.1621991	0.17378522	3.1802468	21	12 21.3	20.7
487124 2014 OC_{173}	17.1	X	254.74323	167.55928	78.39925	5.94483	0.0582662	0.21988456	2.7185640	21	—	—
487125 2014 OM_{173}	17.8	X	33.66464	63.95765	100.42820	8.38185	0.0832933	0.24377755	2.5378946	21	3 16.2	20.8
487126 2014 ON_{174}	17.4	X	339.45806	203.74841	340.38691	6.80768	0.1077598	0.23182912	2.6243639	21	1 13.5	20.7
487127 2014 OC_{176}	16.4	X	349.78371	351.41306	68.77026	7.64910	0.1319702	0.17938997	3.1136558	21	12 17.4	20.1
487128 2014 OL_{179}	16.3	X	17.86823	99.73549	342.87347	12.30902	0.1496420	0.19243006	2.9713521	21	—	—
487129 2014 OG_{182}	16.3	X	143.95979	224.68497	111.14427	16.23836	0.1496743	0.20290915	2.8681485	21	—	—
487130 2014 OZ_{182}	16.8	X	31.46313	270.39940	117.38593	11.45779	0.0715643	0.17717533	3.1395487	21	12 30.4	21.2
487131 2014 OZ_{185}	17.2	X	296.31741	271.02931	2.33534	9.74908	0.0770822	0.24420596	2.5349256	21	3 14.9	20.6
487132 2014 OB_{186}	16.4	X	38.99746	289.99396	93.94060	10.94035	0.0774055	0.17964058	3.1107593	21	—	—
487133 2014 OX_{190}	17.8	X	348.97969	294.18218	2.84952	1.98864	0.1728578	0.26561279	2.3968272	21	7 2.3	19.7
487134 2014 OL_{195}	16.2	X	93.45366	160.11108	163.28861	27.57463	0.1856301	0.17317693	3.1876895	21	—	—
487135 2014 OU_{201}	18.0	X	331.66162	36.32298	200.07157	1.17401	0.0733922	0.24750714	2.5123351	21	3 12.9	21.0
487136 2014 OA_{202}	17.1	X	22.33587	81.47582	15.71045	3.51163	0.0554781	0.20849432	2.8166955	21	—	—
487137 2014 OJ_{202}	16.4	X	324.90317	124.00161	323.06807	10.90573	0.1635095	0.17785546	3.1315396	21	12 8.3	20.1
487138 2014 OY_{202}	17.3	X	157.57123	229.51190	75.03062	3.18833	0.0512172	0.20234725	2.8734557	21	—	—
487139 2014 OS_{204}	17.3	X	153.88407	319.61004	15.30877	4.16811	0.1057327	0.20825785	2.8188273	21	1 1.5	21.5
487140 2014 OS_{206}	17.4	X	22.31939	150.81051	134.24841	6.87263	0.1070477	0.27903071	2.3193594	21	8 22.8	19.7
487141 2014 OX_{206}	16.0	X	288.86365	263.54135	117.05175	3.92878	0.2736231	0.12409464	3.9807727	21	6 28.8	21.5
487142 2014 OK_{208}	17.3	X	5.04703	271.57810	274.90414	3.13684	0.0798740	0.24361230	2.5390421	21	2 22.2	20.3
487143 2014 OR_{209}	16.7	X	157.59286	290.11355	344.24656	2.49443	0.1032412	0.19365575	2.9588012	21	—	—
487144 2014 OG_{214}	15.9	X	11.28733	275.92366	111.21876	10.48982	0.0646032	0.17489902	3.1667307	21	12 3.5	20.2
487145 2014 OT_{215}	16.3	X	313.42855	0.03312	102.57752	17.84132	0.0896759	0.18633615	3.0357871	21	12 16.7	20.2
487146 2014 OS_{217}	16.4	X	72.19744	284.36820	71.09679	8.66675	0.2059240	0.18450774	3.0558099	21	—	—
487147 2014 OB_{218}	15.7	X	323.65835	348.86572	85.78834	11.82234	0.1118022	0.17538865	3.1608343	21	11 24.2	19.6
487148 2014 OU_{218}	16.6	X	55.20274	265.08262	101.69855	11.36955	0.2162382	0.18037293	3.1023334	21	—	—
487149 2014 ON_{219}	17.4	X	174.25118	229.17205	71.99788	4.80216	0.0816600	0.20945863	2.8080438	21	—	—
487150 2014 OE_{221}	15.9	X	58.47264	266.84068	79.77287	10.77153	0.0802508	0.17882108	3.1202561	21	12 15.5	20.2
487151 2014 OR_{221}	17.7	X	46.57958	167.61535	32.41888	6.34551	0.1550911	0.26841565	2.3801125	21	5 30.3	19.9
487152 2014 OV_{221}	16.4	X	21.35600	18.37195	4.63560	9.18662	0.0835942	0.17780335	3.1321515	21	12 11.9	20.8
487153 2014 OE_{222}	16.5	X	347.07127	325.52364	81.16328	10.49417	0.0590940	0.17356879	3.1828900	21	11 23.3	20.6
487154 2014 OP_{232}	15.6	X	326.69445	116.16105	357.18635	15.85912	0.0728048	0.17227630	3.1987897	21	—	—
487155 2014 OR_{234}	15.9	X	46.95103	30.72977	18.03289	10.11440	0.0414993	0.18068825	3.0987232	21	—	—
487156 2014 OP_{235}	16.1	X	29.29605	173.92830	140.93097	13.51108	0.0512555	0.17639137	3.1488441	21	9 30.3	20.5
487157 2014 OL_{238}	16.7	X	266.24415	59.95518	81.71696	2.68572	0.0183626	0.18379056	3.0637542	21	12 6.7	20.9
487158 2014 OP_{239}	16.9	X	72.59421	242.26472	105.03292	2.74127	0.1083476	0.18421215	3.0590779	21	—	—
487159 2014 OJ_{246}	16.5	X	351.65321	60.90583	3.79164	8.93961	0.1998623	0.17913451	3.1166154	21	—	—
487160 2014 OO_{246}	16.5	X	94.28910	356.10791	330.07145	9.91314	0.1022165	0.18686270	3.0300814	21	—	—
487161 2014 OD_{251}	16.8	X	254.33874	194.65678	31.11924	6.97053	0.0985717	0.21531826	2.7568648	21	—	—
487162 2014 OL_{252}	16.5	X	96.82192	355.69005	345.55440	11.10924	0.0214043	0.19330688	2.9623601	21	—	—
487163 2014 OK_{253}	16.9	X	18.52686	25.44412	30.32632	5.73908	0.1399267	0.18563931	3.0433793	21	—	—
487164 2014 OM_{254}	16.6	X	76.78896	29.43049	322.13340	17.85345	0.0924442	0.18716801	3.0267854	21	—	—
487165 2014 OO_{257}	16.6	X	98.09050	257.00081	89.00804	10.07504	0.1090848	0.19281339	2.9674125	21	—	—
487166 2014 ON_{258}	16.9	X	156.49042	268.58000	72.93909	7.53028	0.0309869	0.21583927	2.7524266	21	1 1.9	20.7
487167 2014 OV_{258}	16.0	X	57.22323	248.43496	97.20819	13.56415	0.0985388	0.17627013	3.1502878	21	12 15.6	20.4
487168 2014 OY_{262}	16.6	X	265.41976	103.79121	108.33590	15.64315	0.1196327	0.21295635	2.7772117	21	—	—
487169 2014 OT_{268}	15.9	X	46.21122	335.16708	41.04903	10.08187	0.0256709	0.18362753	3.0655673	21	12 29.9	20.3
487170 2014 OD_{274}	16.4	X	87.22441	315.25627	43.02962	7.29391	0.1910687	0.18960883	3.0007537	21	—	—
487171 2014 ON_{276}	17.1	X	147.78941	33.10484	92.21081	8.42123	0.0602350	0.26834997	2.3805009	21	6 26.0	20.1
487172 2014 OQ_{279}	17.8	X	49.55556	232.01274	72.13273	4.47655	0.1638135	0.30088116	2.2056642	21	11 15.2	20.3
487173 2014 OB_{281}	16.7	X	39.73536	323.33798	92.02624	10.41082	0.0914741	0.19216125	2.9741224	21	—	—
487174 2014 OF_{284}	16.5	X	332.93173	115.77552	350.35864	10.83480	0.0555958	0.18667083	3.0321574	21	—	—
487175 2014 OU_{292}	16.0	X	133.68623	4.17708	328.13349	8.86707	0.0489295	0.19054092	2.9909596	21	—	—
487176 2014 OC_{304}	16.8	X	344.07522	169.39549	330.73193	4.92558	0.0217848	0.21218203	2.7839642	21	—	—
487177 2014 OR_{307}	17.1	X	312.00234	19.98640	121.43769	3.07334	0.0178241	0.20242353	2.8727338	21	—	—
487178 2014 OV_{308}	17.1	X	239.94809	114.58553	95.87064	3.26959	0.0420109	0.20148834	2.8816160	21	—	—
487179 2014 OR_{315}	17.7	X	299.28251	40.61415	242.25998	3.14837	0.1604707	0.25468103	2.4649322	21	3 14.9	21.1
487180 2014 OQ_{316}	15.7	X	99.72699	357.16711	314.49909	16.59562	0.1713396	0.18115425	3.0934068	21	12 29.9	20.8
487181 2014 OT_{319}	16.2	X	321.04812	113.10115	304.21780	17.31354	0.0955362	0.16832660	3.2486347	21	10 17.8	20.8
487182 2014 OR_{327}	16.2	X	89.86328	22.81407	318.27790	5.37570	0.1119811	0.18767587	3.0213225	21	—	—
487183 2014 OH_{334}	15.8	X	105.72282	34.49975	260.91751	10.49218	0.0822982	0.17466910	3.1695090	21	12 6.8	20.5
487184 2014 OK_{334}	16.1	X	3.94426	96.70641	286.25198	7.63595	0.0815582	0.17208923	3.2011075	21	11 15.7	20.3
487185 2014 OS_{334}	16.8	X	107.36593	238.09199	85.07187	2.99606	0.0744775	0.18989449	2.9977435	21	—	—
487186 2014 OX_{336}	16.3	X	328.72970	359.36278	85.48937	11.56298	0.0567073	0.17593072	3.1543383	21	12 13.9	20.3
487187 2014 OO_{339}	16.3	X	95.56053	193.04127	127.91140	11.08596	0.0342205	0.18339886	3.0681149	21	12 23.4	20.8
487188 2014 OB_{340}	16.9	X	292.42184	270.11522	317.80325	13.53751	0.0636915	0.22758377	2.6568999	21	1 16.8	20.6
487189 2014 OC_{340}	16.8	X	125.97779	229.82913	114.56270	11.02852	0.0837314	0.20292883	2.8679630	21	—	—
487190 2014 ON_{341}	17.7	X	311.53917	279.28985	330.89247	3.52414	0.1274036	0.24553532	2.5257677	21	2 23.4	21.0
487191 2014 OH_{342}	16.4	X	187.83448	229.73414	346.89665	9.19581	0.0402937	0.17905188	3.1175741	21	11 28.9	21.1
487192 2014 OQ_{342}	17.7	X	301.80108	150.36033	70.42019	1.79453	0.1392311	0.23172008	2.6251871	21	1 6.4	21.2
487193 2014 OX_{345}	17.5	X	353.73202	168.89432	73.89280	4.32584	0.1372165	0.25588402	2.4572006	21	4 20.6	19.8
487194 2014 OB_{349}	16.7	X	93.69740	74.03051	273.69101	10.45376	0.1424388	0.19125211	2.9835402	21	—	—
487195 2014 OA_{356}	16.7	X	317.22522	105.85535	117.46668	15.66252	0.1206148	0.23830821	2.5765785	21	1 29.9	20.0
487196 2014 OG_{356}	17.0	X	340.93753	339.22595	90.72896	7.12362	0.0930535	0.17831278	3.1261830	21	12 14.1	20.8
487197 2014 OV_{356}	16.8	X	9.50007	100.44017	298.92737	9.87902	0.0744776	0.17729303	3.1381589	21	12 15.8	21.0
487198 2014 OE_{358}	17.2	X	255.46252	128.43687	126.66503	7.10877	0.1517966	0.21675134	2.7446998	21	1 2.4	21.6
487199 2014 OB_{360}	16.1	X	63.83597	190.87000	157.50879	14.50964	0.0998150	0.17094556	3.2153691	21	12 25.4	20.9
487200 2014 OD_{360}	16.7	X	21.95829	235.92668	337.05799	8.51861	0.0393713	0.24633395	2.5203056	21	4 25.2	20.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
487201 2014 OW_{363}	16.4	X	336.21878	319.88740	118.49791	12.88256	0.0526393	0.18236429	3.0797078	21	12 18.6	20.6
487202 2014 OL_{369}	16.2	X	72.71180	220.09083	130.47791	9.84291	0.0812496	0.18443940	3.0565646	21	—	—
487203 2014 ON_{374}	16.5	X	12.68312	308.76935	112.48241	11.75310	0.1015989	0.18792786	3.0186211	21	—	—
487204 2014 OY_{374}	16.2	X	43.64838	276.66850	123.50869	11.33983	0.0993353	0.18965210	3.0002973	21	—	—
487205 2014 OK_{375}	17.2	X	156.87700	183.22505	118.25729	6.24423	0.1435710	0.20072636	2.8889040	21	—	—
487206 2014 OM_{375}	16.5	X	56.99193	17.22206	328.70971	9.84182	0.0797572	0.17571373	3.1569346	21	12 11.9	21.2
487207 2014 OT_{375}	16.4	X	70.79029	27.44982	329.82103	10.39796	0.1160083	0.18410854	3.0602255	21	—	—
487208 2014 OZ_{375}	17.1	X	271.21288	159.17969	116.68644	11.97072	0.1563506	0.23912333	2.5707199	21	2 8.7	21.0
487209 2014 OF_{377}	16.1	X	64.81920	287.14522	103.05180	11.11458	0.1162410	0.19217216	2.9740098	21	—	—
487210 2014 OK_{377}	16.1	X	20.32899	264.39717	122.42934	10.18189	0.0778940	0.17448411	3.1717489	21	12 15.7	20.4
487211 2014 OL_{377}	17.1	X	188.90309	310.03651	350.76457	3.65100	0.1212378	0.21193419	2.7861342	21	—	—
487212 2014 OK_{379}	16.5	X	99.44956	314.35761	91.86178	6.88848	0.0393221	0.22289138	2.6940596	21	1 11.3	20.0
487213 2014 OV_{379}	17.2	X	215.20605	213.45831	87.95627	6.81965	0.0926303	0.22775806	2.6555443	21	1 19.9	21.2
487214 2014 OZ_{380}	16.5	X	80.89544	184.55558	143.94125	10.05464	0.1305392	0.18108822	3.0941587	21	12 25.9	21.3
487215 2014 OF_{383}	15.8	X	342.80758	338.82303	80.98899	7.95153	0.1302295	0.17510287	3.1642725	21	12 4.8	19.4
487216 2014 OF_{386}	16.4	X	13.28763	131.64038	298.00118	8.69466	0.0441583	0.19228055	2.9728921	21	—	—
487217 2014 OL_{386}	16.1	X	219.68783	272.65143	277.30931	7.40866	0.0263135	0.18236204	3.0797331	21	12 7.3	20.5
487218 2014 ON_{386}	16.3	X	44.23747	73.90760	299.24842	14.69972	0.1463876	0.17862804	3.1225037	21	—	—
487219 2014 OD_{388}	17.3	X	239.05446	302.40683	349.61581	5.81177	0.0990638	0.22876282	2.6477629	21	2 2.1	21.3
487220 2014 OJ_{388}	16.6	X	74.52689	5.94947	333.66675	16.71553	0.1884835	0.17854272	3.1234984	21	—	—
487221 2014 OT_{388}	17.7	X	295.08107	28.19763	228.66096	1.67770	0.1351618	0.24190191	2.5509964	21	2 10.6	21.3
487222 2014 OJ_{390}	16.3	X	84.62964	204.57810	116.01577	19.92259	0.1163266	0.17362832	3.1821624	21	12 19.5	21.2
487223 2014 OF_{391}	15.8	X	78.59481	279.44055	86.71703	10.24151	0.1198647	0.17799821	3.1298651	21	—	—
487224 2014 OW_{391}	16.1	X	247.93654	158.44428	209.42512	33.41650	0.2735922	0.23606290	2.5928908	21	4 30.9	20.5
487225 2014 PP	16.9	X	237.42421	299.85610	29.53519	10.16073	0.1111059	0.24421544	2.5348599	21	3 18.0	20.7
487226 2014 PR_{1}	17.1	X	303.59189	289.79995	328.11782	13.35100	0.0613118	0.24289957	2.5440065	21	3 3.1	20.5
487227 2014 PS_{2}	17.6	X	274.62846	125.94013	141.29599	4.02378	0.1273569	0.23767517	2.5811516	21	2 3.1	21.5
487228 2014 PZ_{4}	16.6	X	96.74057	266.62364	74.90194	3.13271	0.1622361	0.18917774	3.0053106	21	—	—
487229 2014 PL_{5}	17.3	X	9.67828	323.59925	135.13795	2.76663	0.0436782	0.20349530	2.8626382	21	—	—
487230 2014 PE_{6}	16.4	X	80.28501	69.31299	260.21267	8.36613	0.1387288	0.18044522	3.1015048	21	12 26.7	21.1
487231 2014 PZ_{7}	17.1	X	276.67516	124.87017	139.00372	13.78960	0.1571078	0.23823450	2.5771099	21	1 28.8	20.9
487232 2014 PG_{8}	17.0	X	184.38845	206.41031	147.59588	6.32482	0.1598176	0.22796338	2.6539495	21	2 24.2	21.3
487233 2014 PS_{8}	15.4	X	75.73232	203.58654	133.09237	21.35851	0.0462403	0.18249347	3.0782543	21	12 22.4	20.1
487234 2014 PA_{10}	17.2	X	266.91293	228.38170	350.70989	2.63796	0.1170249	0.21275397	2.7789726	21	—	—
487235 2014 PQ_{10}	16.6	X	293.69047	2.09123	143.56168	11.77999	0.0192133	0.18896729	3.0075415	21	—	—
487236 2014 PC_{11}	15.9	X	253.33440	142.41454	317.81770	8.76308	0.0432206	0.15308693	3.4608064	21	9 20.7	21.0
487237 2014 PD_{11}	16.0	X	17.97497	84.16112	324.79928	9.04497	0.0854105	0.18034582	3.1026443	21	—	—
487238 2014 PG_{12}	16.3	X	210.00714	289.41079	321.99891	13.99366	0.1203390	0.20246740	2.8723188	21	—	—
487239 2014 PZ_{12}	16.4	X	7.96435	274.65534	141.87598	11.64351	0.1596196	0.17567479	3.1574011	21	—	—
487240 2014 PM_{13}	18.0	X	2.45799	34.90905	215.24969	1.88918	0.1857173	0.26540787	2.3980608	21	5 14.7	19.8
487241 2014 PU_{13}	15.8	X	85.45777	168.11223	150.57626	14.32881	0.1867545	0.17511125	3.1641715	21	12 24.1	21.0
487242 2014 PX_{14}	16.3	X	303.54643	323.89961	147.74372	15.93539	0.0079362	0.17834376	3.1258209	21	12 17.7	20.9
487243 2014 PB_{15}	16.9	X	39.33041	72.13750	316.41045	8.11116	0.0665042	0.18080016	3.0974443	21	—	—
487244 2014 PF_{16}	17.1	X	194.84963	127.24975	126.79983	3.03295	0.0687253	0.19482319	2.9469693	21	—	—
487245 2014 PJ_{16}	17.1	X	273.62591	328.98676	319.14490	10.31362	0.1164790	0.23983840	2.5656076	21	2 26.8	20.8
487246 2014 PN_{16}	16.7	X	150.59832	143.01390	145.38382	10.26049	0.0627591	0.18931750	3.0038314	21	—	—
487247 2014 PT_{16}	15.9	X	349.21689	300.42882	144.24954	22.72775	0.1582721	0.17887564	3.1196216	21	—	—
487248 2014 PQ_{18}	16.7	X	149.58382	342.42594	343.37473	9.88185	0.0767072	0.20264891	2.8706035	21	—	—
487249 2014 PA_{27}	16.3	X	82.78702	350.90750	340.38615	12.01435	0.0978767	0.17654207	3.1470519	21	12 27.6	21.1
487250 2014 PU_{27}	17.3	X	189.79318	206.81591	133.04571	7.13421	0.0282904	0.22201288	2.7011619	21	2 7.1	20.9
487251 2014 PW_{27}	16.8	X	239.77147	257.66267	352.14797	6.89864	0.1744777	0.21389594	2.7690727	21	—	—
487252 2014 PY_{27}	15.7	X	228.51467	33.28578	135.18381	13.10469	0.0200417	0.16937420	3.2352254	21	11 24.3	20.5
487253 2014 PN_{30}	16.4	X	98.58205	211.77302	139.50325	12.52776	0.0268372	0.18898242	3.0073809	21	—	—
487254 2014 PT_{30}	16.2	X	125.94029	339.41617	334.44558	8.95977	0.0757751	0.18633760	3.0357713	21	—	—
487255 2014 PL_{33}	16.0	X	52.80155	346.20142	359.76311	10.15650	0.0318483	0.16946633	3.2340527	21	11 27.3	20.7
487256 2014 PN_{33}	17.3	X	243.28675	237.60708	28.12097	4.34328	0.0207673	0.21434661	2.7651899	21	1 11.6	21.2
487257 2014 PX_{33}	15.8	X	106.79550	206.66635	120.46698	10.33965	0.1344888	0.18385264	3.0630645	21	—	—
487258 2014 PJ_{34}	16.5	X	185.08590	181.42677	127.54561	13.76317	0.1920884	0.21025239	2.8009719	21	1 6.5	21.1
487259 2014 PR_{34}	16.6	X	154.54209	278.67470	6.67641	8.94901	0.1082714	0.18884483	3.0088415	21	—	—
487260 2014 PH_{35}	17.3	X	336.49653	277.06194	313.91581	12.31106	0.1303560	0.24519608	2.5280968	21	2 28.9	20.4
487261 2014 PU_{35}	16.7	X	10.62540	277.65909	130.75574	9.31618	0.0311635	0.17914140	3.1165355	21	12 24.6	21.0
487262 2014 PR_{37}	15.7	X	347.69331	283.57458	141.96761	11.80699	0.0566327	0.17165065	3.2065579	21	12 16.4	20.1
487263 2014 PS_{40}	16.4	X	317.69467	326.88574	160.12140	11.24532	0.0600416	0.18388795	3.0626724	21	—	—
487264 2014 PV_{46}	16.0	X	355.89857	112.46179	335.28023	18.39290	0.1875747	0.18231592	3.0802525	21	—	—
487265 2014 PO_{48}	15.9	X	69.96011	26.44896	343.74847	9.19133	0.1086959	0.18241627	3.0791228	21	—	—
487266 2014 PZ_{51}	16.8	X	150.86071	347.19497	326.08293	8.76524	0.0624488	0.19309997	2.9644758	21	—	—
487267 2014 PU_{53}	15.8	X	31.65518	326.63622	87.75347	12.66290	0.0181262	0.18319328	3.0704098	21	—	—
487268 2014 PT_{54}	16.4	X	177.19174	329.04889	355.80435	10.56539	0.1537358	0.20890726	2.8129825	21	1 18.9	21.0
487269 2014 PD_{57}	16.0	X	152.35163	219.82747	78.08965	13.30564	0.0667234	0.18705751	3.0279773	21	—	—
487270 2014 PJ_{57}	15.9	X	82.33747	267.71379	63.93859	17.40074	0.0894621	0.17135093	3.2102959	21	12 23.4	20.7
487271 2014 PM_{58}	16.0	X	134.95460	132.91161	145.18537	18.92537	0.0767515	0.17783572	3.1317714	21	12 18.7	21.1
487272 2014 PV_{59}	15.5	X	62.14491	267.90420	97.79310	22.47876	0.2613210	0.17435030	3.1733715	21	—	—
487273 2014 PH_{63}	17.6	X	303.08282	138.04644	140.71123	0.09115	0.1814052	0.25243135	2.4795556	21	3 13.1	20.9
487274 2014 PR_{63}	16.7	X	122.00447	352.94283	323.96270	11.39510	0.0918841	0.19044517	2.9919620	21	—	—
487275 2014 PN_{64}	16.2	X	66.33936	215.82988	129.67817	15.47808	0.2032535	0.17479565	3.1679790	21	—	—
487276 2014 PJ_{66}	16.4	X	148.42251	66.83202	300.58423	11.58370	0.0996889	0.21790434	2.7350092	21	1 30.9	20.4
487277 2014 PN_{68}	17.4	X	266.60604	85.85013	167.70571	5.82519	0.0461939	0.22577980	2.6710334	21	1 17.8	21.1
487278 2014 PD_{69}	16.9	X	152.35781	197.91437	147.71002	8.05849	0.1474700	0.21170383	2.7881550	21	1 15.4	21.2
487279 2014 PK_{69}	16.7	X	53.65338	74.64630	310.16867	9.41764	0.1029530	0.18421976	3.0589937	21	—	—
487280 2014 QK	16.2	X	219.32550	188.97694	123.75816	22.20572	0.2864421	0.22478971	2.6788708	21	2 5.5	21.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
487281 2014 QN_{1}	16.7	X	216.75394	136.81613	184.54328	12.46909	0.1213725	0.22176120	2.7032051	21	2 12.1	21.1
487282 2014 QQ_{10}	17.3	X	256.47714	18.36507	259.49495	9.96392	0.1266005	0.23121183	2.6290328	21	1 26.9	21.4
487283 2014 QL_{21}	16.7	X	101.35198	98.71028	239.77310	7.77308	0.0540480	0.18280256	3.0747835	21	—	—
487284 2014 QV_{23}	16.1	X	332.53121	133.15668	324.31756	16.06885	0.0827218	0.17552067	3.1592491	21	—	—
487285 2014 QC_{25}	16.2	X	348.26916	87.09024	309.08287	8.55048	0.0840856	0.15675010	3.4066761	21	11 4.9	20.7
487286 2014 QL_{25}	16.4	X	35.72599	44.25455	308.05415	8.83951	0.0507310	0.16045485	3.3540341	21	11 14.8	21.1
487287 2014 QR_{26}	17.8	X	310.30609	82.18144	177.56364	9.37553	0.2504587	0.24487420	2.5303117	21	2 14.8	21.5
487288 2014 QD_{34}	17.6	X	356.70335	349.08761	232.43642	2.45517	0.1315748	0.25542880	2.4601191	21	3 22.8	20.1
487289 2014 QZ_{34}	16.4	X	45.09096	213.10933	146.41091	10.86535	0.0805820	0.17780888	3.1320865	21	12 15.8	20.9
487290 2014 QZ_{37}	16.5	X	93.91970	51.91501	274.38824	2.52571	0.1307334	0.18291477	3.0735258	21	—	—
487291 2014 QO_{38}	16.2	X	44.16852	126.49957	277.09078	16.73163	0.1451185	0.18734570	3.0248713	21	—	—
487292 2014 QU_{38}	15.5	X	66.51582	98.16735	258.24453	12.34731	0.0455730	0.18264088	3.0765977	21	12 31.8	20.0
487293 2014 QR_{40}	16.8	X	232.76361	335.10592	310.02486	5.19260	0.0695081	0.21562931	2.7542130	21	1 20.4	20.8
487294 2014 QV_{41}	16.5	X	133.98706	45.51267	253.61506	8.50834	0.0750005	0.18658075	3.0331333	21	—	—
487295 2014 QU_{42}	16.9	X	292.79023	268.55598	325.06650	11.63431	0.2258755	0.22696417	2.6617332	21	1 5.2	21.2
487296 2014 QM_{43}	16.0	X	332.28608	142.61813	286.97074	13.30977	0.0663113	0.17789831	3.1310368	21	11 29.6	20.3
487297 2014 QE_{53}	17.9	X	1.97511	292.75059	309.39358	9.16185	0.1633172	0.26462495	2.4027884	21	4 26.1	20.2
487298 2014 QL_{56}	17.8	X	308.15711	61.21689	239.21486	4.36106	0.2358710	0.26141146	2.4224396	21	4 6.9	20.7
487299 2014 QX_{58}	16.8	X	69.98402	124.82232	262.43852	4.54124	0.0143986	0.19820427	2.9133593	21	—	—
487300 2014 QP_{61}	16.4	X	146.11745	97.19246	140.38254	16.88379	0.1053109	0.17475161	3.1685112	21	11 15.9	21.7
487301 2014 QZ_{61}	16.3	X	251.83199	249.95117	315.10356	13.99656	0.1001885	0.20315598	2.8658248	21	—	—
487302 2014 QN_{66}	17.3	X	326.98411	267.87058	318.73146	13.24576	0.0906799	0.24095781	2.5576555	21	2 18.1	20.5
487303 2014 QQ_{71}	16.8	X	100.95209	154.50258	178.82555	7.86077	0.0690654	0.18807585	3.0170374	21	—	—
487304 2014 QX_{73}	16.2	X	52.15695	85.39069	280.35325	13.51592	0.0677616	0.17924080	3.1153831	21	12 29.4	20.6
487305 2014 QY_{75}	16.7	X	121.34958	129.41983	281.33634	10.31295	0.0838268	0.22263012	2.6961669	21	2 16.2	20.5
487306 2014 QR_{87}	16.1	X	89.34907	115.67895	233.63441	7.68575	0.1195661	0.18607417	3.0386358	21	—	—
487307 2014 QZ_{88}	16.6	X	108.70593	65.82716	249.10348	6.68062	0.1709173	0.18327432	3.0695047	21	—	—
487308 2014 QW_{106}	16.1	X	91.36562	40.79067	310.52505	11.69178	0.0564476	0.18765175	3.0215814	21	—	—
487309 2014 QX_{108}	17.0	X	215.40218	43.63207	242.02332	8.34749	0.1377193	0.21746245	2.7387131	21	1 1.8	21.5
487310 2014 QZ_{112}	17.5	X	207.49678	105.32357	195.92004	3.88726	0.0544959	0.21689407	2.7434956	21	1 11.7	21.5
487311 2014 QF_{113}	16.6	X	338.49009	235.40585	219.72330	4.00451	0.1111887	0.18162898	3.0880141	21	—	—
487312 2014 QM_{114}	16.8	X	297.90594	336.36793	164.02898	9.95717	0.0239642	0.18688413	3.0298498	21	—	—
487313 2014 QQ_{115}	15.7	X	297.56046	148.21131	338.56397	26.16020	0.1421268	0.17512204	3.1640415	21	12 13.9	20.2
487314 2014 QA_{116}	16.3	X	325.48551	175.90624	314.13692	9.47492	0.0491220	0.18814266	3.0163232	21	—	—
487315 2014 QB_{119}	16.9	X	102.14194	212.81036	157.76032	11.87626	0.0620587	0.19552264	2.9399369	21	—	—
487316 2014 QW_{121}	17.0	X	151.25883	323.32244	1.28867	1.26300	0.0626012	0.19843094	2.9111402	21	—	—
487317 2014 QT_{126}	16.9	X	324.46651	249.94721	296.81587	3.93792	0.1011929	0.21191743	2.7862811	21	1 1.2	20.6
487318 2014 QP_{129}	16.8	X	170.06548	100.48809	164.91684	4.03453	0.0121173	0.18018853	3.1044497	21	—	—
487319 2014 QT_{129}	16.4	X	109.10572	193.54068	161.78657	10.39634	0.1088374	0.19057446	2.9906086	21	—	—
487320 2014 QQ_{133}	16.3	X	308.92101	348.87452	154.39775	11.27504	0.0589328	0.18608311	3.0385385	21	—	—
487321 2014 QR_{134}	17.0	X	135.74032	298.27338	16.03239	5.39552	0.1670279	0.18961911	3.0006452	21	—	—
487322 2014 QY_{134}	17.2	X	166.39380	296.93764	56.99785	3.09757	0.0807741	0.21385845	2.7693963	21	2 4.1	21.3
487323 2014 QQ_{144}	16.8	X	232.19016	315.56022	316.60325	9.17995	0.0881359	0.21246607	2.7814825	21	1 5.1	21.1
487324 2014 QV_{145}	16.6	X	317.99496	126.89097	348.08963	9.87862	0.0896456	0.17771734	3.1331620	21	—	—
487325 2014 QO_{152}	16.2	X	230.95495	334.50539	303.47385	13.76597	0.1714664	0.21878118	2.7276967	21	1 7.9	20.7
487326 2014 QG_{153}	16.0	X	118.95967	123.59155	198.81125	10.90552	0.0936418	0.18689525	3.0297296	21	—	—
487327 2014 QL_{153}	16.4	X	42.28968	21.88401	339.81219	16.38331	0.1960061	0.17543449	3.1602836	21	—	—
487328 2014 QV_{171}	16.9	X	92.94166	29.90548	343.02282	8.24413	0.0568480	0.19379704	2.9573630	21	—	—
487329 2014 QA_{172}	16.9	X	153.93252	152.61930	177.02846	5.98094	0.0647198	0.20146714	2.8818181	21	—	—
487330 2014 QV_{172}	17.0	X	207.83213	318.59466	337.35031	5.26331	0.0088279	0.20851808	2.8164815	21	1 7.8	20.9
487331 2014 QC_{174}	16.2	X	0.86657	197.30094	166.04033	10.49130	0.0508984	0.15047317	3.5007680	21	10 17.1	20.9
487332 2014 QU_{174}	16.7	X	218.17793	63.50025	127.66008	2.87592	0.0665948	0.17173029	3.2055665	21	12 1.1	21.5
487333 2014 QM_{175}	15.8	X	353.79724	109.62811	359.73417	11.65215	0.0599095	0.18875712	3.0097736	21	—	—
487334 2014 QL_{176}	16.4	X	139.52471	111.83519	166.83953	10.87564	0.0778662	0.17510265	3.1642751	21	12 21.6	21.5
487335 2014 QS_{176}	16.9	X	256.14843	110.11259	162.46614	12.84391	0.1602965	0.22300433	2.6931499	21	1 20.9	21.3
487336 2014 QY_{190}	16.7	X	85.49053	166.59405	161.48225	13.30399	0.1151240	0.17631232	3.1497853	21	12 27.5	21.7
487337 2014 QA_{192}	15.8	X	91.37853	42.80969	282.96608	3.84813	0.1378813	0.17762384	3.1342614	21	—	—
487338 2014 QK_{193}	16.4	X	256.45383	268.38867	315.33818	13.96844	0.1056150	0.20597808	2.8395883	21	—	—
487339 2014 QS_{194}	16.2	X	88.07953	55.30931	283.65830	6.95295	0.1739648	0.18010938	3.1053591	21	—	—
487340 2014 QF_{197}	17.5	X	250.46698	45.09533	220.52729	4.40995	0.2138802	0.22445114	2.6815640	21	1 5.6	22.2
487341 2014 QN_{199}	16.2	X	106.38562	8.53897	319.54510	14.71419	0.0561579	0.18295725	3.0730500	21	—	—
487342 2014 QF_{200}	16.3	X	111.59458	357.49446	317.36744	9.54252	0.1010471	0.18143964	3.0901622	21	—	—
487343 2014 QA_{201}	16.1	X	278.64718	241.69393	323.70204	14.28510	0.0931348	0.20581490	2.8410890	21	—	—
487344 2014 QA_{202}	16.6	X	254.29729	4.34454	170.09895	11.34901	0.0639901	0.18142252	3.0903565	21	12 24.8	21.1
487345 2014 QY_{203}	17.0	X	281.39701	302.75239	323.56770	12.05456	0.1602844	0.23509389	2.6000108	21	2 6.9	20.7
487346 2014 QE_{205}	16.4	X	359.17006	249.36939	165.55946	9.92642	0.0479750	0.17311208	3.1884856	21	12 18.0	20.9
487347 2014 QE_{206}	16.1	X	106.80461	350.21986	334.34797	8.98981	0.1158956	0.18255696	3.0775405	21	—	—
487348 2014 QT_{207}	16.5	X	186.30016	352.80034	250.90707	2.36136	0.0483572	0.18279103	3.0749128	21	12 31.1	21.1
487349 2014 QV_{207}	16.4	X	109.52807	341.07229	321.42458	8.44040	0.0911120	0.17560134	3.1582815	21	12 20.0	21.3
487350 2014 QB_{213}	17.4	X	221.01213	325.52714	328.68538	4.24386	0.0819332	0.21675301	2.7446857	21	1 18.9	21.5
487351 2014 QV_{214}	16.6	X	12.30481	128.82902	327.95829	10.35155	0.0865403	0.19174594	2.9784154	21	—	—
487352 2014 QB_{215}	16.8	X	242.38261	117.63667	174.25035	9.19569	0.0960701	0.22462439	2.6801850	21	2 2.9	21.0
487353 2014 QF_{217}	16.1	X	13.66951	116.88806	318.99267	9.98526	0.0207851	0.18718195	3.0266351	21	—	—
487354 2014 QE_{218}	16.2	X	204.74921	275.55391	315.04632	10.63533	0.0897354	0.18583311	3.0412631	21	—	—
487355 2014 QO_{220}	16.5	X	9.35855	177.26426	271.04713	4.55461	0.1424957	0.18836274	3.0139732	21	—	—
487356 2014 QS_{226}	16.0	X	340.56084	145.83153	338.89749	9.91117	0.0793544	0.19119532	2.9841310	21	—	—
487357 2014 QJ_{227}	17.5	X	269.01673	285.51605	340.13426	2.24107	0.1521560	0.22765279	2.6563628	21	1 26.4	21.4
487358 2014 QW_{227}	16.0	X	308.52811	310.36037	161.04876	26.33452	0.0429838	0.17307552	3.1889347	21	12 21.2	20.9
487359 2014 QT_{237}	16.3	X	300.51474	126.55122	355.00421	16.68964	0.1090980	0.16993783	3.2280680	21	12 12.6	20.7
487360 2014 QY_{241}	15.9	X	358.73254	52.76047	19.66526	12.37146	0.1373426	0.17144329	3.2091428	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
487361 2014 QH_{242}	16.4	X	49.95862	228.85689	147.11481	16.43523	0.0679751	0.17302865	3.1895105	21	—	—
487362 2014 QJ_{242}	16.6	X	171.49493	213.92790	34.68357	9.03104	0.0560358	0.17484683	3.1673608	21	12 18.6	21.4
487363 2014 QB_{244}	16.4	X	337.13438	347.40369	102.11202	9.57926	0.0845575	0.17143963	3.2091886	21	12 30.5	20.5
487364 2014 QU_{247}	17.1	X	220.05653	257.29281	33.16913	8.56262	0.0949479	0.21222025	2.7836299	21	1 15.3	21.5
487365 2014 QB_{248}	16.6	X	172.58340	145.97380	141.73585	13.00859	0.1075097	0.19192306	2.9765827	21	—	—
487366 2014 QR_{251}	17.6	X	38.21397	114.07666	121.47371	11.15974	0.2094521	0.26562974	2.3967253	21	7 20.0	19.6
487367 2014 QU_{251}	15.9	X	101.95659	237.84400	91.78582	10.20324	0.0539616	0.17628716	3.1500849	21	—	—
487368 2014 QA_{252}	16.1	X	199.75021	195.70353	24.83240	20.93848	0.0810175	0.17412608	3.1760951	21	12 10.2	21.2
487369 2014 QQ_{255}	16.1	X	344.14373	57.48788	88.09807	9.69748	0.0545862	0.19560188	2.9391429	21	—	—
487370 2014 QV_{255}	17.1	X	251.92767	193.94778	76.78912	8.60521	0.0945934	0.21450902	2.7637941	21	1 22.9	21.3
487371 2014 QG_{256}	16.2	X	73.15639	300.24984	57.86084	12.04206	0.0607288	0.17424693	3.1746265	21	—	—
487372 2014 QP_{256}	16.4	X	254.17287	129.44270	78.71714	11.66360	0.0321313	0.18708398	3.0276917	21	—	—
487373 2014 QX_{257}	17.0	X	341.21395	88.90350	134.45874	18.43089	0.2122734	0.23538735	2.5978494	21	2 20.9	19.9
487374 2014 QE_{265}	16.6	X	340.39455	36.54175	81.86711	11.78693	0.0727020	0.18526785	3.0474459	21	—	—
487375 2014 QV_{265}	16.2	X	77.29618	46.61068	303.56338	9.32828	0.0407785	0.17899649	3.1182172	21	—	—
487376 2014 QF_{272}	15.9	X	51.80836	352.81062	354.03813	10.32116	0.0697750	0.17931677	3.1145032	21	12 4.8	20.4
487377 2014 QQ_{273}	16.7	X	120.97219	13.32928	338.27657	8.39716	0.0447081	0.19495418	2.9456491	21	—	—
487378 2014 QR_{276}	16.5	X	16.51067	41.99674	329.17455	8.31246	0.0443493	0.16908934	3.2388579	21	11 13.3	21.0
487379 2014 QK_{277}	17.1	X	177.07839	163.98742	141.65451	7.27646	0.0640155	0.20874524	2.8144378	21	—	—
487380 2014 QF_{282}	16.1	X	299.12914	345.14350	137.78349	13.95137	0.0594481	0.18101175	3.0950301	21	12 21.9	20.4
487381 2014 QE_{283}	16.8	X	232.02913	276.76326	25.59343	13.48193	0.2000475	0.22788626	2.6545482	21	2 8.8	21.5
487382 2014 QS_{283}	17.2	X	253.50848	181.96513	93.15900	12.75897	0.0623415	0.22304982	2.6927837	21	1 31.4	21.2
487383 2014 QG_{288}	16.3	X	237.05171	175.52260	80.59766	15.96484	0.1918175	0.21243349	2.7817669	21	—	—
487384 2014 QZ_{288}	16.2	X	6.07113	324.44053	113.35815	18.59775	0.2001549	0.17822250	3.1272387	21	—	—
487385 2014 QU_{298}	16.8	X	27.71934	193.66637	196.26085	1.20898	0.0505718	0.17700787	3.1415285	21	12 25.3	21.0
487386 2014 QA_{301}	16.1	X	9.73642	328.22690	50.07897	7.82409	0.1318079	0.15524985	3.4285876	21	11 20.7	20.5
487387 2014 QP_{302}	16.2	X	46.60218	218.34635	158.51446	14.88180	0.0533906	0.17942127	3.1132937	21	—	—
487388 2014 QO_{304}	16.5	X	226.93546	85.72308	117.84069	10.25237	0.0447461	0.17782739	3.1318692	21	12 28.9	21.0
487389 2014 QD_{305}	16.7	X	71.27651	21.25856	316.19346	13.30534	0.0734385	0.17290505	3.1910303	21	12 18.1	21.5
487390 2014 QX_{307}	16.9	X	200.53986	163.09336	153.19395	3.80677	0.0881979	0.20937421	2.8087985	21	1 24.8	21.3
487391 2014 QF_{311}	16.8	X	148.15475	299.95887	13.59597	9.17605	0.1292109	0.20436151	2.8545434	21	—	—
487392 2014 QA_{312}	17.7	X	290.14041	206.19002	137.91835	6.76222	0.1183538	0.26869075	2.3784877	21	6 3.9	20.7
487393 2014 QO_{315}	16.9	X	105.28984	181.62734	137.14423	15.34220	0.1273741	0.18776467	3.0203698	21	—	—
487394 2014 QA_{316}	16.4	X	334.58888	343.67283	125.39663	11.69585	0.0811662	0.19276572	2.9679017	21	—	—
487395 2014 QG_{322}	17.8	X	27.84140	99.40423	154.42784	1.70330	0.1525038	0.26334392	2.4105743	21	7 18.6	19.9
487396 2014 QO_{326}	16.3	X	122.92079	192.78547	165.82263	10.03137	0.0730000	0.19033151	2.9931531	21	—	—
487397 2014 QA_{327}	15.7	X	58.51713	9.25694	17.95521	18.14385	0.2251057	0.17347775	3.1840034	21	—	—
487398 2014 QM_{329}	16.2	X	300.77430	81.74893	126.19991	8.59618	0.0197995	0.19881370	2.9074026	21	1 11.9	20.3
487399 2014 QY_{334}	16.2	X	214.34476	107.70381	121.24501	9.38277	0.0363266	0.17216788	3.2001325	21	—	—
487400 2014 QR_{338}	16.2	X	351.78491	113.60501	322.28906	16.21356	0.0518565	0.18317519	3.0706120	21	—	—
487401 2014 QN_{339}	16.5	X	332.53216	128.80654	309.65417	10.71592	0.0925242	0.17452893	3.1712058	21	12 10.7	20.7
487402 2014 QA_{342}	15.9	X	134.78059	132.16141	147.49028	16.94271	0.0996798	0.18217547	3.0818355	21	12 20.9	21.0
487403 2014 QB_{344}	16.3	X	201.57838	270.47702	307.25889	8.98787	0.0747476	0.18467781	3.0539335	21	12 15.2	20.9
487404 2014 QM_{346}	15.9	X	34.73812	320.05022	64.16620	16.56755	0.0816041	0.17573683	3.1566579	21	12 30.5	20.4
487405 2014 QT_{360}	16.3	X	169.39863	267.92637	352.77561	8.80553	0.0569008	0.17560284	3.1582635	21	—	—
487406 2014 QU_{360}	15.9	X	22.35525	48.48993	0.25239	11.67692	0.0428663	0.17227091	3.1988565	21	—	—
487407 2014 QQ_{365}	16.4	X	154.72664	100.32617	180.24345	10.44905	0.1189302	0.18661627	3.0327483	21	—	—
487408 2014 QW_{367}	15.7	X	53.64406	283.65727	128.90180	10.00784	0.1527114	0.17718973	3.1393785	21	—	—
487409 2014 QL_{370}	16.6	X	70.12071	358.17543	12.33372	10.09106	0.0866465	0.17857487	3.1231235	21	—	—
487410 2014 QR_{372}	16.9	X	240.19498	223.95760	68.72602	5.85448	0.0925295	0.21928572	2.7235111	21	2 6.3	21.0
487411 2014 QS_{374}	17.1	X	296.42685	292.49235	312.37991	5.63873	0.0132040	0.21991608	2.7183042	21	2 17.6	20.7
487412 2014 QZ_{375}	16.9	X	196.39775	341.85371	338.00783	6.43080	0.1019373	0.21143623	2.7905070	21	1 26.8	21.1
487413 2014 QR_{376}	15.7	X	26.29763	213.07142	184.07863	17.40038	0.1420041	0.16799657	3.2528880	21	—	—
487414 2014 QA_{378}	16.6	X	135.18180	337.13189	348.88580	15.63720	0.0795262	0.18755773	3.0225912	21	—	—
487415 2014 QG_{383}	16.3	X	164.41203	315.19279	344.37034	9.74728	0.0953338	0.18782169	3.0197586	21	—	—
487416 2014 QH_{384}	15.4	X	255.04294	198.16464	338.34944	27.92027	0.1334305	0.17858977	3.1229498	21	12 20.1	20.3
487417 2014 QW_{384}	16.7	X	197.61037	92.34354	165.69195	13.54496	0.1356073	0.19052505	2.9911257	21	—	—
487418 2014 QV_{394}	16.7	X	0.66068	236.03416	358.88842	4.83752	0.1211992	0.24519866	2.5280791	21	4 21.5	19.3
487419 2014 QT_{403}	16.6	X	184.18459	94.65087	241.90585	7.88973	0.1448124	0.21343680	2.7730424	21	2 1.4	21.2
487420 2014 QD_{407}	16.2	X	155.98320	281.36067	357.60187	10.36309	0.0658059	0.17776546	3.1325965	21	—	—
487421 2014 QU_{412}	16.6	X	185.00989	164.30086	155.24411	5.06257	0.0578298	0.21266544	2.7797438	21	1 10.5	20.7
487422 2014 QW_{413}	16.3	X	57.59589	95.17748	305.54973	12.86217	0.1466206	0.18469564	3.0537369	21	—	—
487423 2014 QZ_{417}	15.9	X	141.41937	330.48237	308.84325	5.07675	0.1678610	0.17477892	3.1681812	21	12 25.4	21.1
487424 2014 QS_{422}	16.7	X	357.57071	76.07325	349.18136	9.51879	0.0896003	0.17406118	3.1768845	21	—	—
487425 2014 QK_{423}	17.4	X	236.41221	289.80230	52.90554	4.30639	0.0321999	0.24101219	2.5572707	21	4 6.6	20.8
487426 2014 QV_{423}	16.0	X	105.70087	125.26518	210.76906	9.67389	0.0400788	0.17832854	3.1259988	21	—	—
487427 2014 QF_{426}	15.7	X	54.19987	65.45522	322.45482	9.38122	0.0947098	0.17420145	3.1751789	21	—	—
487428 2014 QR_{427}	16.1	X	199.05305	59.78801	164.31456	17.89872	0.1289628	0.17970343	3.1100340	21	12 15.9	21.3
487429 2014 QF_{429}	16.5	X	137.58632	91.45307	192.03325	10.24872	0.0471154	0.17664280	3.1458554	21	12 24.1	21.3
487430 2014 QS_{431}	16.4	X	250.78015	267.28649	30.62341	18.65646	0.1151876	0.21493335	2.7601553	21	3 2.3	20.9
487431 2014 RR_{3}	17.0	X	94.46008	197.30261	151.44833	10.12593	0.0356755	0.18527933	3.0473200	21	—	—
487432 2014 RU_{8}	16.8	X	66.54326	217.61950	129.28295	10.30490	0.0891446	0.17303044	3.1894885	21	12 25.6	21.4
487433 2014 RE_{15}	16.0	X	144.67611	21.11825	275.10040	8.32121	0.0525548	0.18475309	3.0531038	21	—	—
487434 2014 RK_{21}	17.9	X	340.59383	60.76894	216.34552	0.69725	0.1709637	0.26353090	2.4094339	21	5 10.8	20.0
487435 2014 RD_{27}	16.5	X	220.80051	38.29462	232.83855	13.08130	0.1864785	0.21123144	2.7923103	21	—	—
487436 2014 RW_{29}	16.3	X	50.60080	37.27385	342.91276	8.21591	0.1261884	0.17642101	3.1484915	21	—	—
487437 2014 RW_{33}	16.4	X	82.50662	184.86557	153.43713	13.14385	0.1511820	0.17522986	3.1627435	21	—	—
487438 2014 RO_{35}	16.0	X	64.31057	0.84367	46.43029	10.16372	0.0489636	0.19204385	2.9753344	21	—	—
487439 2014 RH_{36}	16.5	X	178.08093	206.46429	131.09154	7.46536	0.0674642	0.21162636	2.7888353	21	1 25.9	20.7
487440 2014 RU_{36}	16.9	X	95.36818	29.02222	6.80926	9.38447	0.0289358	0.19885952	2.9069560	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
487441 2014 RM_{37}	16.4	X	44.65592	209.46376	168.86096	16.75445	0.0908382	0.17060387	3.2196609	21	—	—
487442 2014 RT_{50}	16.3	X	110.12453	234.37209	137.43444	10.50046	0.0733452	0.19523469	2.9428270	21	—	—
487443 2014 RM_{61}	16.0	X	119.80676	212.68492	105.26039	10.27413	0.2305063	0.18570038	3.0427121	21	—	—
487444 2014 RE_{62}	15.8	X	105.74546	84.41246	262.51921	8.92592	0.1002834	0.18770929	3.0209639	21	—	—
487445 2014 RG_{62}	15.6	X	77.66278	248.15278	97.23860	15.73017	0.2568901	0.17519454	3.1631685	21	—	—
487446 2014 RU_{62}	15.7	X	44.02255	75.91366	320.89570	14.79113	0.2290876	0.17202997	3.2018426	21	—	—
487447 2014 RR_{63}	13.5	X	343.24580	167.81952	95.38995	27.57950	0.0582113	0.08245526	5.2278582	21	5 28.1	20.3
487448 2014 SF_{2}	15.8	X	114.56997	62.44582	254.06054	10.08924	0.0783403	0.18215750	3.0820381	21	—	—
487449 2014 SL_{18}	17.3	X	320.75062	243.68724	353.73671	1.87996	0.1071117	0.23176096	2.6248784	21	2 25.0	20.4
487450 2014 SQ_{24}	16.4	X	217.88178	274.53268	2.66118	12.42266	0.0889223	0.20461099	2.8522226	21	—	—
487451 2014 SJ_{25}	16.3	X	48.28966	357.04816	11.00026	9.38190	0.0625078	0.16863431	3.2446816	21	12 24.5	21.0
487452 2014 SD_{31}	16.3	X	81.73096	320.88176	23.92942	9.39108	0.0773894	0.17471206	3.1689894	21	—	—
487453 2014 SL_{45}	16.6	X	236.60204	93.42915	133.35882	10.91549	0.0563716	0.19265153	2.9690743	21	—	—
487454 2014 SM_{58}	16.7	X	123.15193	320.98460	26.08741	10.35498	0.1289586	0.19264840	2.9691065	21	—	—
487455 2014 SH_{74}	16.7	X	130.66330	241.26887	127.94423	11.56064	0.1233455	0.20593824	2.8399545	21	1 19.2	20.7
487456 2014 SD_{83}	17.2	X	195.96394	74.68864	253.42119	2.49384	0.0948974	0.21366605	2.7710585	21	2 2.5	21.5
487457 2014 SN_{89}	16.5	X	152.18680	278.80654	351.03466	9.45246	0.0634174	0.17245279	3.1966069	21	12 23.6	21.4
487458 2014 SP_{90}	16.1	X	237.80613	189.94530	351.98394	8.68601	0.0303417	0.16855348	3.2457189	21	12 15.5	20.8
487459 2014 SR_{100}	16.7	X	305.21922	134.54341	357.12008	8.92792	0.0199304	0.17536875	3.1610734	21	—	—
487460 2014 SE_{115}	16.7	X	169.92681	315.48071	342.58896	1.24261	0.0579457	0.18788313	3.0191002	21	—	—
487461 2014 SY_{115}	16.1	X	209.97935	216.55617	9.36369	15.52514	0.0685163	0.17409881	3.1764268	21	—	—
487462 2014 SJ_{117}	15.6	X	126.04387	309.06245	8.01440	9.77875	0.0940074	0.17812647	3.1283625	21	—	—
487463 2014 ST_{122}	16.4	X	166.37688	258.26999	68.93944	3.10406	0.0539029	0.19841363	2.9113095	21	1 2.3	20.6
487464 2014 SK_{133}	17.1	X	171.28587	121.20589	178.05679	11.25643	0.0972721	0.19316902	2.9637693	21	—	—
487465 2014 SY_{133}	15.5	X	170.75549	230.51557	32.52487	17.92321	0.1307086	0.17280663	3.1922418	21	—	—
487466 2014 SJ_{138}	16.8	X	206.22533	251.72828	25.23553	6.36198	0.0254159	0.19704348	2.9247898	21	—	—
487467 2014 SR_{146}	16.2	X	45.56228	5.14012	9.17269	11.51005	0.0885393	0.16830466	3.2489170	21	—	—
487468 2014 SA_{151}	16.1	X	28.99988	102.68623	349.30928	10.78073	0.1219648	0.18393412	3.0621598	21	—	—
487469 2014 SA_{152}	17.1	X	304.68306	296.44415	319.84725	2.97719	0.1589329	0.22849560	2.6498268	21	2 20.6	20.7
487470 2014 SE_{152}	16.3	X	181.41066	288.86887	355.07878	6.92352	0.1205137	0.18822257	3.0154693	21	—	—
487471 2014 SC_{154}	16.1	X	90.49426	137.98674	203.87318	16.30008	0.2190141	0.17351168	3.1835884	21	—	—
487472 2014 SE_{154}	16.9	X	330.26118	254.06640	0.03024	13.76684	0.2363684	0.23978700	2.5659743	21	3 12.7	19.8
487473 2014 SL_{166}	16.5	X	106.93283	0.30269	338.30423	10.74045	0.1049755	0.17765873	3.1338511	21	—	—
487474 2014 SG_{172}	16.9	X	165.95203	132.06171	141.88571	1.54830	0.1326175	0.18347401	3.0672771	21	—	—
487475 2014 SE_{173}	16.9	X	350.89419	152.60872	19.79830	7.29532	0.0834531	0.21105264	2.7938871	21	1 23.9	20.5
487476 2014 SG_{179}	16.8	X	119.81670	207.44679	107.46806	2.75232	0.1476123	0.17942239	3.1132808	21	—	—
487477 2014 SO_{196}	17.4	X	345.66870	262.39224	51.20482	7.53101	0.1250027	0.26842343	2.3800665	21	7 27.7	19.7
487478 2014 SW_{201}	16.4	X	216.40185	116.72062	106.58202	7.12741	0.1106274	0.18101983	3.0949380	21	—	—
487479 2014 SB_{216}	16.1	X	148.28035	206.59017	116.07257	8.60840	0.2121559	0.17857669	3.1231022	21	—	—
487480 2014 SY_{217}	15.9	X	128.57124	198.88707	146.31896	11.24528	0.0663210	0.17271202	3.1934075	21	—	—
487481 2014 SP_{218}	16.2	X	246.74701	67.24867	162.25072	10.28497	0.0286849	0.17175878	3.2052119	21	—	—
487482 2014 SS_{218}	15.9	X	238.06641	91.88055	155.87502	11.47309	0.0383349	0.17626242	3.1503796	21	—	—
487483 2014 SK_{220}	16.1	X	126.33543	203.35148	137.32391	18.70800	0.2000414	0.17914498	3.1164939	21	—	—
487484 2014 SF_{235}	16.1	X	295.85187	155.26210	350.18833	9.03612	0.1108966	0.17500215	3.1654864	21	—	—
487485 2014 SA_{244}	16.0	X	116.22071	198.01898	107.68233	9.25534	0.1744873	0.17572615	3.1567859	21	—	—
487486 2014 SM_{258}	16.4	X	226.32638	270.76900	33.01556	4.82867	0.0526814	0.21012373	2.8021151	21	2 8.2	20.5
487487 2014 SK_{263}	15.7	X	64.57003	210.15055	170.28285	17.10667	0.2044980	0.17424023	3.1747078	21	—	—
487488 2014 SY_{264}	16.0	X	220.66186	48.56216	198.12070	17.22696	0.1498352	0.18517442	3.0484709	21	—	—
487489 2014 SE_{265}	17.2	X	207.91182	287.09075	65.10223	5.69761	0.1643492	0.22436426	2.6822562	21	3 17.8	21.6
487490 2014 SV_{265}	15.5	X	19.62349	226.18340	240.99669	12.48458	0.0175151	0.19339935	2.9614157	21	—	—
487491 2014 ST_{272}	16.4	X	214.40097	291.61172	353.60264	5.41806	0.0217754	0.20202435	2.8765168	21	1 3.9	20.6
487492 2014 SY_{278}	16.1	X	177.26574	263.87169	357.41563	11.08711	0.0540487	0.17900555	3.1181121	21	—	—
487493 2014 SQ_{281}	16.5	X	268.27838	200.00727	84.30293	3.91614	0.1578208	0.21971312	2.7199780	21	2 18.9	20.6
487494 2014 SU_{283}	15.6	X	284.27405	307.35825	241.84055	8.97372	0.0242705	0.18982343	2.9984916	21	—	—
487495 2014 SH_{285}	15.8	X	75.43732	54.48265	323.31041	9.18369	0.0787639	0.17984560	3.1083948	21	—	—
487496 2014 SE_{288}	14.7	X	197.27474	214.96759	155.93076	8.47182	0.3703375	0.07865456	5.3949421	21	4 7.9	23.2
487497 2014 SR_{288}	16.2	X	62.81264	47.90975	312.51766	26.45288	0.2502683	0.17166846	3.2063361	21	—	—
487498 2014 SP_{295}	15.4	X	166.82384	23.97843	268.11390	10.14064	0.0595291	0.19045847	2.9918227	21	—	—
487499 2014 SQ_{295}	15.9	X	353.73927	218.76032	267.40768	9.96886	0.0501140	0.19506646	2.9445187	21	—	—
487500 2014 SQ_{300}	16.1	X	160.07745	294.56508	17.10397	10.26481	0.0778628	0.18212783	3.0823729	21	—	—
487501 2014 SM_{313}	15.7	X	305.27705	141.54284	33.53877	11.64707	0.0725948	0.18424456	3.0587191	21	—	—
487502 2014 SE_{315}	17.1	X	192.25395	250.36639	96.09726	4.57079	0.0995331	0.20960939	2.8066972	21	2 24.1	21.5
487503 2014 SS_{331}	16.3	X	98.41162	148.21593	218.70414	13.43653	0.0558806	0.18303622	3.0721661	21	—	—
487504 2014 SU_{331}	17.2	X	300.49480	6.61538	272.90341	4.85121	0.2060999	0.23866620	2.5740013	21	3 6.8	21.0
487505 2014 SK_{340}	16.4	X	172.47763	58.67397	215.94905	7.02528	0.2246072	0.18521298	3.0480478	21	—	—
487506 2014 SL_{349}	14.0	X	291.44414	244.55979	74.70540	28.88014	0.0602655	0.08452405	5.1422026	21	5 24.8	20.8
487507 2014 TM_{8}	15.7	X	159.42160	76.11481	248.83870	3.99739	0.0684431	0.18985365	2.9981734	21	—	—
487508 2014 TD_{13}	16.1	X	127.27951	57.80668	264.81242	6.59284	0.1372632	0.17822444	3.1272159	21	—	—
487509 2014 TC_{20}	16.1	X	294.02865	147.05414	30.19498	11.51130	0.1410610	0.17654968	3.1469615	21	—	—
487510 2014 TX_{37}	16.1	X	164.23511	261.98737	358.57625	6.22596	0.1405242	0.17172429	3.2056411	21	12 22.9	21.3
487511 2014 TA_{40}	16.0	X	312.41572	262.80355	24.31710	13.36678	0.1467645	0.23809363	2.5781263	21	4 13.6	19.2
487512 2014 TF_{44}	16.0	X	316.37119	321.60747	213.50623	11.47796	0.1071404	0.18145995	3.0899315	21	—	—
487513 2014 TM_{47}	16.4	X	159.50487	93.26554	220.61169	8.45524	0.1413972	0.18538553	3.0461562	21	—	—
487514 2014 TO_{66}	16.0	X	93.95652	151.42560	215.53367	11.61121	0.0696038	0.18008355	3.1056560	21	—	—
487515 2014 TW_{66}	15.4	X	151.82979	287.10471	0.98315	15.19247	0.1467391	0.17748803	3.1358600	21	—	—
487516 2014 UM_{7}	16.1	X	140.13959	326.46840	2.93543	9.97790	0.0959354	0.18713886	3.0270997	21	—	—
487517 2014 UB_{11}	15.8	X	138.58954	54.72697	262.87707	7.82028	0.0674366	0.17537265	3.1610265	21	—	—
487518 2014 UA_{23}	16.1	X	206.40151	262.34652	34.17434	4.47979	0.1656306	0.20082161	2.8879905	21	1 11.1	20.9
487519 2014 UV_{26}	16.0	X	161.71329	264.10557	21.35588	10.08351	0.0792252	0.17521527	3.1629191	21	—	—
487520 2014 UA_{28}	15.6	X	141.27391	78.23077	248.29143	11.40761	0.0801330	0.17149735	3.2084684	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
487521 2014 UQ_{54}	15.3	X	107.65244	8.35857	333.87471	16.35605	0.1856534	0.17459184	3.1704440	21	—	—
487522 2014 UR_{55}	15.4	X	158.38774	245.31328	78.34731	10.97804	0.0845855	0.17905426	3.1175466	21	—	—
487523 2014 UJ_{60}	16.1	X	4.28371	66.93353	45.08573	10.62806	0.0458475	0.18010559	3.1054027	21	—	—
487524 2014 UG_{91}	16.5	X	229.37768	95.36936	230.63300	5.13921	0.0654120	0.21782795	2.7356486	21	3 4.9	20.7
487525 2014 UE_{93}	15.4	X	233.62031	228.56463	47.12536	10.09295	0.0793612	0.18977528	2.9989987	21	1 15.6	20.1
487526 2014 UY_{96}	16.0	X	268.34056	155.17054	60.62420	11.21090	0.0642314	0.17974587	3.1095445	21	—	—
487527 2014 US_{104}	15.9	X	294.41132	141.24761	30.02519	16.40550	0.0246844	0.18029116	3.1032715	21	—	—
487528 2014 UH_{112}	15.5	X	35.12770	353.16962	58.86331	11.70967	0.1365129	0.17004670	3.2266900	21	—	—
487529 2014 UM_{127}	16.2	X	191.56125	34.98375	233.43921	7.99081	0.0498043	0.17436944	3.1731392	21	—	—
487530 2014 UU_{132}	15.6	X	126.09661	256.30958	51.74721	16.10176	0.2385897	0.17249571	3.1960767	21	—	—
487531 2014 UL_{136}	16.1	X	217.26602	218.91108	43.82127	9.95562	0.0592470	0.17821002	3.1273847	21	—	—
487532 2014 UE_{149}	15.8	X	186.72301	233.20713	52.95225	10.44005	0.0795019	0.17653463	3.1471403	21	—	—
487533 2014 UV_{154}	16.0	X	176.91082	130.10482	168.51982	9.13006	0.1243591	0.18861107	3.0113271	21	—	—
487534 2014 UC_{161}	15.4	X	158.91173	64.52536	255.61420	6.18885	0.1003609	0.18241873	3.0790951	21	—	—
487535 2014 UW_{169}	13.7	X	211.89213	295.92334	104.12829	19.93987	0.0694024	0.08247221	5.2271419	21	5 30.6	21.0
487536 2014 US_{172}	15.5	X	267.95457	102.74373	103.23015	10.66491	0.0517523	0.17430019	3.1739797	21	—	—
487537 2014 UH_{176}	16.3	X	154.95937	240.83826	69.54447	4.69943	0.1022870	0.18019648	3.1043583	21	—	—
487538 2014 UN_{184}	15.9	X	150.56429	314.24773	10.30189	15.67103	0.0304462	0.18405579	3.0608101	21	—	—
487539 2014 UV_{187}	14.1	X	271.99343	97.02659	233.69170	4.59308	0.0595776	0.08367543	5.1769118	21	5 12.2	21.0
487540 2014 UF_{189}	15.4	X	196.53697	314.25074	340.08157	11.14327	0.1119741	0.19286451	2.9668882	21	—	—
487541 2014 UV_{190}	15.7	X	248.88231	324.65167	251.98152	9.57102	0.0621953	0.17764893	3.1339662	21	—	—
487542 2014 UF_{194}	16.1	X	179.38435	253.06163	45.95030	11.07964	0.1064353	0.18803393	3.0174858	21	—	—
487543 2014 UY_{196}	15.9	X	169.16265	60.45089	224.30994	8.47373	0.0542671	0.17516413	3.1635347	21	—	—
487544 2014 UZ_{197}	15.7	X	31.30163	223.74833	234.12179	11.00886	0.0518628	0.17858981	3.1229493	21	—	—
487545 2014 UB_{204}	14.2	X	267.62854	134.74320	216.72859	10.28434	0.0597084	0.08471912	5.1343061	21	5 31.4	21.1
487546 2014 UC_{213}	15.7	X	100.51429	231.28119	109.10560	9.27728	0.1814487	0.17527501	3.1622003	21	—	—
487547 2014 VO_{3}	15.7	X	133.62081	228.50623	83.59921	18.83176	0.1252524	0.17959559	3.1112789	21	—	—
487548 2014 VH_{7}	16.8	X	250.65089	235.76645	155.16996	1.88180	0.2361471	0.24392540	2.5368689	21	6 4.2	20.9
487549 2014 VB_{12}	16.0	X	176.53482	317.01406	342.24629	10.63554	0.1303237	0.19193613	2.9764475	21	—	—
487550 2014 VD_{13}	15.8	X	164.94765	220.40023	78.15007	15.52144	0.0902779	0.17723567	3.1388360	21	—	—
487551 2014 VA_{17}	16.0	X	177.96002	195.37494	84.36423	6.77967	0.1129902	0.17870986	3.1215506	21	—	—
487552 2014 VT_{22}	13.8	X	254.97973	306.11653	68.07517	28.23979	0.0480841	0.08572041	5.0942459	21	6 10.8	20.7
487553 2014 VP_{24}	13.5	X	234.97926	160.17351	234.95052	15.14648	0.0676545	0.08344227	5.1865509	21	6 13.1	20.6
487554 2014 VZ_{24}	13.9	X	280.65729	107.74141	238.90810	7.26651	0.0564370	0.08372338	5.1749348	21	6 9.7	20.7
487555 2014 VA_{25}	13.8	X	225.18621	153.98608	246.39365	12.68217	0.0670684	0.08184424	5.2538454	21	6 9.4	20.9
487556 2014 VF_{37}	15.7	X	73.41178	114.62797	252.50820	8.94121	0.1689522	0.18033986	3.1027127	21	—	—
487557 2014 WJ_{20}	15.6	X	197.27520	13.17848	248.26262	5.59839	0.1387677	0.17137122	3.2100426	21	—	—
487558 2014 WE_{48}	15.2	X	21.40427	204.27940	112.73816	3.93983	0.1973979	0.12358185	3.9917768	21	9 28.7	20.0
487559 2014 WX_{104}	16.2	X	127.92157	302.39829	30.76153	9.39922	0.0525014	0.18130097	3.0917376	21	—	—
487560 2014 WV_{140}	15.3	X	62.21470	58.27660	234.26353	8.02069	0.1001443	0.12370777	3.9890676	21	10 9.8	20.9
487561 2014 WM_{143}	15.7	X	258.01611	178.19862	65.56717	18.87189	0.1616877	0.18151955	3.0892552	21	—	—
487562 2014 WK_{159}	15.7	X	127.47656	224.70635	103.39341	10.81137	0.0736950	0.17330329	3.1861399	21	—	—
487563 2014 WO_{165}	17.4	X	225.70524	314.94918	71.30919	3.48439	0.1080897	0.22928041	2.6437765	21	5 15.3	21.4
487564 2014 WB_{183}	16.1	X	308.90294	339.94294	176.51825	12.85038	0.1380228	0.17290471	3.1910345	21	—	—
487565 2014 WT_{239}	16.7	X	196.63668	207.02686	113.37965	3.19766	0.1070864	0.19444107	2.9508290	21	1 29.4	21.2
487566 2014 WB_{279}	16.3	X	207.16702	226.76461	98.89440	11.82007	0.1556375	0.19937774	2.9019167	21	2 16.6	21.2
487567 2014 WB_{315}	16.6	X	98.83882	295.18463	101.55930	9.44804	0.1098190	0.19075844	2.9886855	21	1 15.7	20.7
487568 2014 WW_{349}	15.3	X	163.26384	20.45728	273.74329	9.83503	0.0734165	0.16859645	3.2451674	21	—	—
487569 2014 WL_{360}	16.6	X	177.12032	266.13230	95.49183	7.13467	0.2389116	0.20950671	2.8076142	21	3 7.0	21.5
487570 2014 WU_{364}	13.0	X	213.77796	296.15995	97.85305	31.90990	0.0682879	0.08269665	5.2176799	21	5 29.9	20.4
487571 2014 WL_{366}	13.9	X	55.80900	250.34296	324.25753	8.46516	0.0984845	0.08317144	5.1978039	21	7 2.9	20.6
487572 2014 WG_{387}	13.8	X	232.73714	181.43165	211.22392	16.65811	0.0917131	0.08279072	5.2137269	21	6 6.3	21.1
487573 2014 WZ_{391}	13.7	X	127.07038	52.20619	76.24338	22.03806	0.0504612	0.08231544	5.2337767	21	6 8.6	20.7
487574 2014 WF_{397}	15.9	X	101.06343	263.28977	93.41592	12.55924	0.0872477	0.17636140	3.1492009	21	—	—
487575 2014 WW_{398}	15.5	X	147.64604	229.82310	99.37238	15.03840	0.0795690	0.18365905	3.0652165	21	—	—
487576 2014 YN_{13}	16.7	X	181.47495	344.29638	89.61823	15.71817	0.1717977	0.22222643	2.6994311	21	6 1.7	21.2
487577 2014 YQ_{15}	21.2	X	60.95614	252.33517	81.83838	10.91775	0.2358339	1.04170782	0.9637671	21	—	—
487578 2015 AD_{28}	16.1	X	199.28480	228.43938	92.21400	3.00040	0.1507189	0.17618800	3.1512667	21	2 4.8	21.3
487579 2015 AK_{46}	16.3	X	25.63098	17.25550	67.81988	14.67684	0.1005020	0.17566668	3.1574983	21	—	—
487580 2015 BA_{92}	20.0	X	344.69737	181.34372	116.64385	17.32464	0.5641715	0.81902393	1.1313709	21	1 31.8	21.0
487581 2015 BE_{519}	5.5	X	84.36834	285.51657	153.18283	24.81542	0.0641667	0.00301359	47.4693614	21	3 12.3	22.3
487582 2015 DW_{130}	17.6	X	345.42637	288.05495	23.42738	21.20825	0.0808880	0.36084520	1.9539889	21	8 10.5	19.8
487583 2015 FJ_{36}	22.2	X	156.12014	98.05092	291.28296	4.42239	0.3092469	0.95106761	1.0240672	21	—	—
487584 2015 FD_{304}	17.0	X	113.76627	127.26175	170.84793	13.20267	0.2758268	0.22713775	2.6603769	21	—	—
487585 2015 FM_{332}	19.3	X	322.06804	230.35032	193.10891	18.36492	0.0744788	0.40262895	1.8163494	21	—	—
487586 2015 FT_{333}	18.1	X	25.45168	95.88978	220.30918	19.50422	0.0662430	0.36913552	1.9246222	21	10 21.5	19.8
487587 2015 FY_{333}	16.2	X	89.15594	105.57436	58.10733	16.82346	0.2056778	0.17835257	3.1257181	21	6 24.9	20.9
487588 2015 FF_{341}	17.7	X	289.96041	146.28262	270.69008	20.56977	0.0705022	0.38465979	1.8724843	21	9 30.9	20.0
487589 2015 HU_{64}	16.7	X	105.11878	118.05234	213.95699	10.60991	0.3056031	0.24286448	2.5442515	21	—	—
487590 2015 HR_{80}	16.3	X	138.62305	261.63622	223.37515	9.32812	0.0907972	0.18421500	3.0590463	21	6 18.4	21.0
487591 2015 HY_{181}	15.2	X	332.99333	225.15982	151.21791	36.98312	0.1932139	0.17165563	3.2064959	21	9 20.9	19.0
487592 2015 KW_{4}	18.4	X	69.07818	51.32281	226.72384	19.78177	0.0353682	0.37878076	1.8918097	21	10 26.5	20.2
487593 2015 KS_{35}	17.1	X	74.38465	191.18818	176.17139	9.33353	0.1950755	0.24119943	2.5559471	21	—	—
487594 2015 KT_{40}	17.3	X	107.97221	276.96006	78.14315	7.28257	0.3523912	0.24156881	2.5533409	21	—	—
487595 2015 KU_{107}	16.6	X	46.82032	263.74302	84.41704	16.26399	0.2949107	0.21139723	2.7908501	21	—	—
487596 2015 KX_{116}	17.8	X	266.93999	161.52785	136.00716	5.15195	0.1048355	0.29888498	2.2154740	21	2 27.4	20.6
487597 2015 KG_{121}	16.2	X	160.22753	21.01214	289.66211	34.38748	0.3018076	0.23246694	2.6195614	21	—	—
487598 2015 KO_{132}	17.1	X	179.03123	234.40204	78.88189	8.05922	0.0990262	0.25585417	2.4573917	21	—	—
487599 2015 LR_{11}	17.4	X	248.78247	8.31971	316.86785	6.95739	0.1452205	0.29184230	2.2509744	21	3 10.5	20.7
487600 2015 LQ_{33}	16.4	X	141.87683	205.60982	102.56899	15.82980	0.1583822	0.23227541	2.6210012	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
487601 2015 LC_{34}	17.0	X	103.38993	260.42032	116.62848	13.39689	0.1805216	0.23816204	2.5776326	21	—	—
487602 2015 LY_{37}	16.5	X	61.51938	235.66826	133.90520	4.01521	0.2429407	0.23442484	2.6049554	21	—	—
487603 2015 MN_{7}	16.5	X	316.68597	99.63098	287.08494	24.34417	0.2290301	0.17191884	3.2032222	21	8 15.2	20.5
487604 2015 ME_{8}	16.5	X	331.76165	270.58505	131.93381	15.11056	0.3248987	0.18008819	3.1056027	21	10 24.0	19.3
487605 2015 MH_{11}	18.2	X	240.56553	101.81270	67.29861	23.37155	0.0367052	0.38850895	1.8600960	21	—	—
487606 2015 MH_{15}	16.9	X	53.16844	98.69616	206.76134	10.16986	0.1005799	0.18995234	2.9971349	21	10 25.1	20.8
487607 2015 ML_{33}	17.2	X	214.56386	181.74137	103.30439	14.91321	0.1562224	0.27387132	2.3483979	21	—	—
487608 2015 ML_{46}	16.0	X	292.67644	324.94055	107.06318	10.39571	0.0662514	0.18462341	3.0545334	21	10 15.2	20.2
487609 2015 MD_{48}	17.5	X	167.81640	16.47389	345.35122	7.26059	0.2457171	0.25515991	2.4618472	21	2 21.6	21.6
487610 2015 MQ_{52}	16.2	X	80.48814	180.81536	134.02094	16.30369	0.1372633	0.20432835	2.8548522	21	12 15.9	20.7
487611 2015 MA_{57}	17.3	X	190.33655	234.61352	118.89258	5.40611	0.1555738	0.27242605	2.3566963	21	2 24.6	21.0
487612 2015 MO_{57}	16.8	X	122.73984	224.80114	108.96408	11.36688	0.0678249	0.23565082	2.5959127	21	—	—
487613 2015 MB_{60}	17.1	X	222.39729	95.00892	275.19038	21.59867	0.2852919	0.30081712	2.2059772	21	3 30.1	21.5
487614 2015 MD_{60}	18.1	X	274.57281	43.57219	66.51266	23.33896	0.0905886	0.37574732	1.9019779	21	12 9.5	19.3
487615 2015 MD_{62}	17.9	X	224.44399	293.42829	88.40321	3.45888	0.1322149	0.30221224	2.1991829	21	5 2.9	21.0
487616 2015 MP_{71}	16.7	X	39.13901	130.63742	258.08180	10.11614	0.0616495	0.22173424	2.7034243	21	—	—
487617 Ingethiering	17.9	X	211.45900	215.44696	126.92635	7.30300	0.1318688	0.27770241	2.3267494	21	3 1.9	21.4
487618 2015 MT_{82}	16.7	X	340.90259	242.75875	136.14741	21.27529	0.2231732	0.18004253	3.1061277	21	10 18.1	20.2
487619 2015 MU_{84}	17.1	X	81.79976	260.48645	125.09844	13.47004	0.2701770	0.22734804	2.6587361	21	—	—
487620 2015 MN_{89}	17.6	X	314.98226	261.74284	111.88652	24.03102	0.0792258	0.35465703	1.9766525	21	9 26.3	20.0
487621 2015 ML_{98}	17.0	X	98.79607	231.47084	136.50490	13.48896	0.2693264	0.22917247	2.6446066	21	—	—
487622 2015 MU_{99}	17.1	X	21.75955	268.46439	133.01871	5.38570	0.1226956	0.21468160	2.7623127	21	—	—
487623 2015 MZ_{109}	17.3	X	109.30650	280.27255	103.04945	13.93309	0.2947326	0.23823280	2.5771222	21	1 30.8	20.7
487624 2015 MV_{117}	17.4	X	86.38058	244.28248	116.57819	10.06059	0.2609914	0.21991550	2.7183090	21	—	—
487625 2015 MT_{126}	16.4	X	24.93780	128.42066	319.95751	14.67803	0.0644975	0.24117111	2.5561472	21	—	—
487626 2015 MJ_{127}	17.6	X	195.90959	265.89112	100.11063	7.80972	0.2178557	0.27418550	2.3466036	21	3 21.3	21.6
487627 2015 NW_{4}	15.8	X	60.18577	198.62378	127.09796	14.41836	0.1998436	0.20161408	2.8804177	21	12 14.3	20.2
487628 2015 NX_{8}	17.6	X	126.49849	223.01462	121.41061	5.46988	0.2761276	0.23376799	2.6098328	21	—	—
487629 2015 NW_{18}	17.6	X	218.97028	228.35469	106.59000	7.70700	0.1341459	0.27138461	2.3627217	21	3 1.7	21.2
487630 2015 NT_{21}	16.7	X	97.86129	237.08190	117.83975	15.80667	0.1318524	0.24417451	2.5351432	21	—	—
487631 2015 NZ_{23}	17.0	X	149.86173	352.25418	341.56408	1.91589	0.1484434	0.24605830	2.5221875	21	—	—
487632 2015 NM_{24}	17.8	X	226.16131	214.73379	136.58105	3.67233	0.2306966	0.28437369	2.2902160	21	3 23.9	21.6
487633 2015 OY_{1}	17.3	X	126.45706	101.67758	275.65381	10.12647	0.2679362	0.24310713	2.5425583	21	2 2.7	21.1
487634 2015 OD_{3}	17.6	X	168.54609	251.58256	99.60614	3.78975	0.2758241	0.25318776	2.4746147	21	2 11.7	21.8
487635 2015 OS_{11}	16.2	X	10.35584	222.45040	118.38875	13.02814	0.1889073	0.18091722	3.0961081	21	10 23.0	20.0
487636 2015 OR_{12}	17.6	X	205.88072	282.53435	93.60344	7.32356	0.1270120	0.28674147	2.2775909	21	4 10.1	21.0
487637 2015 OD_{18}	16.6	X	236.85743	221.54131	323.11050	11.11691	0.0299941	0.21793040	2.7347912	21	12 29.6	20.5
487638 2015 OQ_{19}	17.0	X	134.03966	135.19761	169.54677	13.34080	0.1715342	0.22259052	2.6964866	21	—	—
487639 2015 OP_{22}	17.4	X	240.97940	29.24517	297.48127	6.22689	0.2223786	0.28375399	2.2935492	21	3 2.2	21.3
487640 2015 OY_{22}	17.7	X	132.25632	295.35679	288.55217	17.49266	0.0390753	0.35425002	1.9781663	21	10 23.9	20.4
487641 2015 OP_{24}	17.5	X	189.74866	104.69510	230.35383	9.48914	0.2780802	0.25867277	2.4395080	21	2 3.5	22.0
487642 2015 OV_{24}	17.6	X	207.29729	329.88365	52.65475	1.45258	0.2433902	0.28261472	2.2997089	21	4 15.8	21.6
487643 2015 ON_{36}	16.0	X	35.62911	140.80663	171.04990	12.45124	0.0721871	0.17846708	3.1243809	21	10 5.6	20.1
487644 2015 OV_{40}	16.4	X	34.37057	180.04606	141.24256	8.82784	0.1615084	0.17893650	3.1189142	21	10 29.7	20.5
487645 2015 OA_{64}	17.1	X	59.19680	339.53269	84.44584	15.72440	0.1808475	0.22358088	2.6885180	21	—	—
487646 2015 OS_{64}	17.1	X	113.38078	271.86605	75.56334	13.15809	0.1213511	0.22126757	2.7072241	21	—	—
487647 2015 ON_{66}	17.9	X	196.86569	135.84728	274.84605	6.74144	0.0839182	0.28981999	2.2614335	21	5 11.2	21.1
487648 2015 OH_{67}	16.7	X	103.92350	43.00976	275.20159	12.14959	0.1855093	0.21819286	2.7325976	21	—	—
487649 2015 OS_{68}	16.9	X	40.86263	294.73805	137.86672	15.07621	0.0844928	0.23887267	2.5725179	21	—	—
487650 2015 OS_{71}	17.3	X	119.60947	233.70212	141.47720	1.48952	0.1525663	0.24445776	2.5331846	21	1 9.4	20.4
487651 2015 OY_{71}	18.0	X	173.33545	247.13424	135.07942	7.01946	0.1812700	0.27168153	2.3609999	21	3 18.9	21.7
487652 2015 OD_{75}	17.5	X	187.34400	15.83303	329.38791	5.38060	0.1418200	0.25623870	2.4549325	21	2 11.8	21.3
487653 2015 OT_{75}	17.7	X	273.24613	19.86687	297.70899	5.45957	0.2116782	0.28698081	2.2763243	21	3 19.7	21.1
487654 2015 OM_{76}	17.9	X	230.21602	181.19210	169.34250	6.46407	0.1176733	0.27601793	2.3362063	21	3 31.1	21.2
487655 2015 PN_{6}	16.7	X	24.89487	159.47736	140.66332	16.40166	0.2595501	0.17545468	3.1600412	21	10 2.6	20.4
487656 2015 PB_{32}	16.2	X	27.13474	216.23640	147.31213	16.45171	0.1000942	0.19086025	2.9876225	21	12 4.9	20.4
487657 2015 PY_{33}	17.0	X	134.99701	103.70667	267.18338	13.90539	0.1528685	0.24191034	2.5509371	21	1 20.3	20.7
487658 2015 PF_{36}	18.1	X	193.66451	291.34756	86.96688	5.13026	0.1358633	0.27737587	2.3285752	21	3 31.4	21.6
487659 2015 PC_{38}	18.1	X	115.32245	79.27381	349.81479	5.06910	0.0628041	0.26660679	2.3908661	21	2 26.5	20.8
487660 2015 PL_{38}	15.9	X	1.41304	233.04119	123.95848	10.26080	0.1028009	0.17999566	3.1066670	21	10 19.5	19.9
487661 2015 PS_{38}	17.2	X	136.95135	299.78596	128.10961	7.64826	0.0854387	0.27423989	2.3462933	21	3 30.6	20.3
487662 2015 PJ_{39}	15.9	X	341.93280	225.42555	130.56262	12.48561	0.1066169	0.16939615	3.2349460	21	9 13.9	20.0
487663 2015 PE_{40}	16.9	X	0.33661	320.98127	136.29323	22.67112	0.0348326	0.22607400	2.6687156	21	—	—
487664 2015 PS_{41}	17.4	X	67.27706	60.32731	37.05113	6.98642	0.1159195	0.25537501	2.4604646	21	2 4.7	20.1
487665 2015 PV_{43}	17.3	X	96.65364	278.00186	77.19393	7.43370	0.1625816	0.22109717	2.7086149	21	—	—
487666 2015 PD_{54}	17.7	X	128.91469	39.02926	346.41929	16.62247	0.1660011	0.24153030	2.5536123	21	2 10.3	21.3
487667 2015 PB_{56}	17.3	X	119.47777	18.16334	5.92164	11.65904	0.1736821	0.23400993	2.6080337	21	1 30.4	21.0
487668 2015 PO_{60}	16.3	X	313.61629	311.03821	119.30167	10.01444	0.0558542	0.18912829	3.0058344	21	11 11.4	20.4
487669 2015 PO_{92}	18.3	X	173.11505	106.79334	328.37678	5.19322	0.0430476	0.30233559	2.1985847	21	5 13.8	21.2
487670 2015 PH_{101}	18.4	X	343.33181	187.02300	108.16509	3.87294	0.1689275	0.32001672	2.1168379	21	6 13.2	19.7
487671 2015 PP_{113}	16.5	X	10.23433	186.60668	129.98185	13.55792	0.1220946	0.17215781	3.2002573	21	9 9.5	20.5
487672 2015 PT_{115}	17.1	X	71.19705	307.56607	108.36118	7.32898	0.1727113	0.23774781	2.5806258	21	—	—
487673 2015 PC_{117}	18.3	X	163.36701	48.19332	1.94816	5.38779	0.1525335	0.27944202	2.3170829	21	4 8.2	21.6
487674 2015 PT_{135}	17.4	X	84.69618	69.32261	325.45251	12.48958	0.1596120	0.23385241	2.6092046	21	—	—
487675 2015 PR_{153}	18.1	X	284.16844	199.07100	126.51129	4.38711	0.2002301	0.30072531	2.2064262	21	4 16.3	21.0
487676 2015 PG_{161}	16.7	X	296.46971	309.68344	119.98969	10.96846	0.0617867	0.18379597	3.0636941	21	10 17.8	20.9
487677 2015 PT_{184}	16.6	X	295.54063	311.48962	120.97693	10.13507	0.0607304	0.18337635	3.0683660	21	10 19.7	20.8
487678 2015 PT_{226}	16.6	X	112.52016	59.28634	277.43658	10.94930	0.2059554	0.21904700	2.7254894	21	—	—
487679 2015 PS_{229}	17.2	X	332.98499	349.71088	266.79747	6.48489	0.0957023	0.28927041	2.2642969	21	3 30.0	19.7
487680 2015 PV_{231}	17.1	X	180.48061	12.10436	3.41301	9.01519	0.1912088	0.25813915	2.4428688	21	3 17.4	20.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
487681 2015 PV_{242}	17.5	X	163.91874	245.93867	115.54815	2.25898	0.1948025	0.25612891	2.4556340	21	2 13.5	21.4
487682 2015 PB_{260}	16.5	X	342.77825	266.45267	130.69964	12.35838	0.1187394	0.19290135	2.9665104	21	11 13.6	20.2
487683 2015 PP_{271}	17.9	X	215.16990	29.08376	355.95487	3.71372	0.0501127	0.29284265	2.2458453	21	4 28.4	20.7
487684 2015 PR_{283}	17.4	X	221.98420	309.49527	50.90020	5.93668	0.1522546	0.28075369	2.3098604	21	4 4.0	21.0
487685 2015 PR_{289}	16.9	X	59.11987	328.25387	111.83715	13.94457	0.1544286	0.23276624	2.6173154	21	1 3.4	19.6
487686 2015 PH_{290}	16.8	X	41.32956	332.57714	83.49407	13.15868	0.1139459	0.21668526	2.7452578	21	—	—
487687 2015 PJ_{294}	15.4	X	330.59979	50.37481	348.92663	17.45445	0.1199940	0.17079966	3.2171999	21	10 11.3	19.6
487688 2015 PN_{294}	17.2	X	238.83421	195.73474	134.58052	7.47467	0.1445568	0.27328082	2.3517796	21	3 13.9	20.8
487689 2015 PP_{294}	16.1	X	73.65451	106.91396	348.08881	31.08332	0.1989599	0.23727652	2.5840419	21	3 2.2	18.8
487690 2015 PD_{295}	17.7	X	181.32606	335.43686	40.29921	6.96716	0.1249020	0.26469731	2.4023505	21	3 16.8	21.4
487691 2015 PU_{298}	15.9	X	22.62768	183.46051	152.39078	19.15587	0.1580908	0.17575506	3.1564396	21	10 31.7	20.1
487692 2015 PN_{299}	16.6	X	3.91661	19.59206	345.98439	22.88662	0.1670505	0.17801871	3.1296249	21	10 22.5	20.7
487693 2015 PD_{308}	16.3	X	359.89496	232.69391	137.70600	27.93076	0.3920317	0.17986160	3.1082104	21	12 10.7	19.7
487694 2015 PT_{308}	18.1	X	114.07246	316.64065	321.12551	18.17171	0.0631756	0.36544381	1.9375622	21	12 31.7	20.7
487695 2015 PC_{311}	17.5	X	155.47960	86.55021	161.51419	22.61984	0.0749299	0.36684603	1.9326216	21	—	—
487696 2015 RJ_{1}	16.2	X	0.92121	88.03419	302.01426	8.83084	0.0748395	0.18187644	3.0852125	21	11 21.4	20.4
487697 2015 RE_{3}	17.8	X	176.68991	218.99653	133.43632	2.52001	0.1997625	0.25930924	2.4355145	21	2 13.7	21.8
487698 2015 RS_{18}	17.2	X	122.94332	166.45512	184.60824	13.59218	0.1952796	0.22811546	2.6527699	21	—	—
487699 2015 RP_{21}	17.6	X	139.47377	177.14492	180.20480	8.97385	0.1728334	0.23913895	2.5706079	21	1 13.3	21.4
487700 2015 RR_{21}	17.0	X	48.85972	256.06018	194.10102	6.23009	0.2692597	0.22776658	2.6554780	21	1 2.9	19.0
487701 2015 RJ_{24}	17.7	X	323.09629	329.85081	302.36118	6.02299	0.1115226	0.29370402	2.2414521	21	4 3.2	20.3
487702 2015 RY_{24}	17.5	X	195.08577	51.27941	5.71701	4.31929	0.2034443	0.28456591	2.2891845	21	5 18.1	21.2
487703 2015 RQ_{25}	16.7	X	10.03974	109.40755	326.31615	14.84784	0.1250873	0.21416140	2.7667839	21	—	—
487704 2015 RZ_{26}	16.0	X	42.29440	192.44308	180.69872	13.34534	0.1797116	0.19049506	2.9914396	21	—	—
487705 2015 RO_{28}	17.4	X	183.92984	36.03673	311.40090	6.00244	0.0827731	0.25464928	2.4651371	21	2 7.1	20.8
487706 2015 RG_{29}	17.6	X	225.13120	126.46832	193.57364	4.64072	0.1176722	0.26236382	2.4165739	21	2 14.2	21.4
487707 2015 RF_{31}	16.1	X	14.62497	0.02730	26.11937	18.04966	0.2423163	0.17728868	3.1382104	21	12 28.1	20.2
487708 2015 RQ_{34}	16.7	X	6.32477	358.70350	100.93807	15.49049	0.0335829	0.21079321	2.7961790	21	—	—
487709 2015 RS_{37}	16.0	X	359.29069	19.43276	1.90305	14.97591	0.2736017	0.17333068	3.1858043	21	11 20.9	19.5
487710 2015 RB_{45}	18.1	X	119.38208	284.08647	182.67162	6.60881	0.1233777	0.27112969	2.3642024	21	5 4.3	21.2
487711 2015 RY_{46}	17.9	X	73.76907	240.64741	218.55088	3.58680	0.1514144	0.24390173	2.5370331	21	2 20.9	20.7
487712 2015 RT_{47}	18.0	X	114.88938	189.14008	343.94136	4.86053	0.0770234	0.30574152	2.1822262	21	7 25.2	20.6
487713 2015 RE_{49}	17.0	X	63.75615	144.63575	321.31053	5.43844	0.2113958	0.23950930	2.5679573	21	2 22.4	19.4
487714 2015 RK_{49}	17.8	X	71.84439	234.07682	210.23218	5.15999	0.2185672	0.23325035	2.6136927	21	2 8.4	20.4
487715 2015 RC_{52}	17.5	X	58.72581	206.60026	327.90801	5.72795	0.0865110	0.27918766	2.3184901	21	4 30.4	20.0
487716 2015 RX_{52}	17.7	X	14.42464	169.73237	346.78124	6.21876	0.0127444	0.24994506	2.4959718	21	2 2.3	20.9
487717 2015 RK_{53}	16.7	X	50.76206	54.15991	337.76200	5.20118	0.0819413	0.20602902	2.8391203	21	—	—
487718 2015 RO_{54}	17.7	X	11.28815	51.94855	197.37245	6.13394	0.1098839	0.29783763	2.2206648	21	6 2.5	19.6
487719 2015 RH_{57}	17.8	X	75.44367	243.86271	247.49697	0.63923	0.1351502	0.25962848	2.4335176	21	4 6.9	20.2
487720 2015 RS_{63}	17.0	X	329.48933	89.98709	3.28833	9.60901	0.2532451	0.18660258	3.0328967	21	12 30.7	19.9
487721 2015 RF_{71}	16.6	X	320.76148	60.83791	17.43165	9.74374	0.2019046	0.17717071	3.1396032	21	11 14.9	20.0
487722 2015 RK_{71}	17.1	X	3.40985	57.94566	48.21575	2.91864	0.0631590	0.21605805	2.7505682	21	—	—
487723 2015 RN_{73}	17.6	X	194.38909	333.48694	13.53786	2.99758	0.1904746	0.25638159	2.4540203	21	2 22.9	21.6
487724 2015 RY_{84}	16.3	X	27.44755	62.03855	289.76630	15.82092	0.2470058	0.18202812	3.0834985	21	12 6.8	20.3
487725 2015 RR_{88}	16.3	X	36.49214	92.72927	281.24825	10.60527	0.1245052	0.19039983	2.9924369	21	12 30.4	20.4
487726 2015 RG_{93}	17.7	X	183.43806	222.75866	200.60699	4.90645	0.2068623	0.28289787	2.2981741	21	5 18.2	21.4
487727 2015 RS_{93}	17.4	X	156.74904	31.06202	353.07260	8.77490	0.1274092	0.25792486	2.4442216	21	3 1.1	20.8
487728 2015 RA_{95}	18.1	X	255.53547	86.17188	262.23232	5.33749	0.1384482	0.28993526	2.2608341	21	4 18.8	21.3
487729 2015 RO_{98}	17.0	X	332.71754	91.31686	340.00920	15.40945	0.3217152	0.17935167	3.1140991	21	11 29.1	19.8
487730 2015 RS_{98}	17.5	X	160.52662	149.15368	301.00617	4.24446	0.1611344	0.28301370	2.2975470	21	5 28.9	20.9
487731 2015 RX_{98}	17.0	X	123.12321	43.59677	291.04678	4.31249	0.1650325	0.22140596	2.7060958	21	—	—
487732 2015 RM_{100}	17.8	X	222.90653	212.90099	106.76648	2.28830	0.1852008	0.26496859	2.4007105	21	2 12.5	21.7
487733 2015 RL_{101}	16.5	X	174.04886	334.03987	352.34434	14.86740	0.1147816	0.23934965	2.5690991	21	1 10.4	20.6
487734 2015 RW_{101}	17.6	X	200.54860	296.89735	39.69529	1.87871	0.1948725	0.25610011	2.4558181	21	2 15.6	21.5
487735 2015 RS_{102}	17.4	X	174.64174	182.53544	159.17324	7.33063	0.1905226	0.24265813	2.5456937	21	1 30.4	21.5
487736 2015 RC_{103}	17.5	X	152.95033	257.08930	140.90318	6.35553	0.2163404	0.26004023	2.4309481	21	3 23.3	21.3
487737 2015 RN_{105}	17.5	X	122.65922	190.03451	180.58378	0.33903	0.1490701	0.23376939	2.6098224	21	1 9.4	20.8
487738 2015 RR_{105}	17.7	X	257.41866	345.54316	351.46175	2.74842	0.1474050	0.28561441	2.2835786	21	4 6.3	20.8
487739 2015 RW_{107}	17.2	X	27.41714	341.23306	37.56857	2.31662	0.2781747	0.18488633	3.0516369	21	—	—
487740 2015 RX_{107}	18.4	X	320.37406	319.36339	8.65937	6.15657	0.2535765	0.31203770	2.1527718	21	5 31.1	20.2
487741 2015 RJ_{108}	16.2	X	76.28634	76.63337	10.27642	26.16797	0.2249587	0.23136876	2.6278439	21	3 7.8	19.4
487742 2015 RN_{108}	17.4	X	157.77990	287.95426	105.37117	3.90915	0.1731176	0.25286195	2.4767398	21	3 19.2	21.1
487743 2015 RX_{108}	15.9	X	20.24028	318.52122	56.33893	11.01128	0.1096513	0.17913291	3.1166340	21	12 4.0	19.9
487744 2015 RM_{110}	17.7	X	89.56930	80.96505	347.75496	16.41077	0.1350470	0.24349235	2.5398759	21	2 9.3	20.8
487745 2015 RF_{113}	18.0	X	155.15211	256.46214	148.00004	1.71982	0.1673239	0.26290738	2.4132420	21	3 27.8	21.4
487746 2015 RM_{115}	17.2	X	210.49306	255.61361	76.60254	5.35414	0.2171223	0.26046091	2.4283299	21	2 19.7	21.3
487747 2015 RD_{116}	16.0	X	337.49320	29.79192	23.80986	17.65614	0.2095127	0.17416834	3.1755814	21	11 12.9	19.4
487748 2015 RM_{116}	17.5	X	243.52082	236.64166	129.57493	6.69698	0.1508812	0.28455856	2.2892240	21	5 3.8	20.9
487749 2015 RU_{117}	16.9	X	235.67955	207.62868	103.61800	8.58639	0.2143146	0.26113166	2.4241698	21	2 14.3	21.1
487750 2015 RB_{119}	16.8	X	69.72386	204.01583	192.77335	13.84177	0.1955547	0.21902531	2.7256694	21	—	—
487751 2015 RK_{122}	16.4	X	49.59680	300.29978	94.64499	9.26564	0.1325024	0.20938496	2.8087024	21	—	—
487752 2015 RE_{123}	17.5	X	154.90897	284.54354	83.55484	3.26486	0.1797041	0.24725943	2.5140127	21	2 13.6	21.3
487753 2015 RP_{129}	17.2	X	41.79726	113.41248	352.11341	11.86555	0.2220720	0.23327465	2.6135111	21	1 8.4	19.6
487754 2015 RC_{133}	18.5	X	209.04586	80.98919	336.49568	7.87836	0.0123554	0.29905007	2.2146585	21	6 8.3	21.2
487755 2015 RU_{134}	17.4	X	72.93188	241.32847	171.32273	14.39272	0.1595714	0.22598820	2.6693911	21	—	—
487756 2015 RF_{156}	17.8	X	120.70241	117.84036	348.11343	7.16603	0.1056056	0.27792372	2.3255141	21	4 27.2	20.8
487757 2015 RD_{192}	17.2	X	97.49824	17.73860	25.53511	4.27726	0.0897290	0.23068896	2.6330039	21	1 10.3	20.5
487758 2015 RG_{193}	16.7	X	320.26118	76.31074	13.45589	21.65178	0.2328766	0.17827979	3.1265687	21	11 22.2	20.2
487759 2015 RH_{194}	16.9	X	11.02792	352.62179	71.84343	3.16589	0.0703502	0.19859130	2.9095729	21	—	—
487760 2015 RW_{194}	18.4	X	349.81573	105.84422	160.49355	5.24110	0.1063071	0.29300862	2.2449971	21	5 18.9	20.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
487761 2015 RX_{194}	17.5	X	157.64423	254.89003	67.91795	3.05377	0.0346925	0.22386538	2.6862397	21	—	—
487762 2015 RD_{200}	16.5	X	305.55861	88.06690	23.99034	14.56121	0.1717325	0.18294234	3.0732170	21	12 4.6	20.2
487763 2015 RV_{200}	16.7	X	313.66197	198.38828	10.48944	6.64446	0.1779488	0.24505321	2.5290793	21	—	—
487764 2015 RG_{201}	17.4	X	17.17216	253.11539	150.97886	2.50027	0.1855406	0.18931765	3.0038297	21	—	—
487765 2015 RV_{201}	17.9	X	293.74949	216.38362	53.58307	1.88973	0.1608375	0.26938312	2.3744105	21	2 19.8	21.1
487766 2015 RU_{202}	16.8	X	339.56928	41.24014	24.18005	18.31240	0.2260400	0.17724290	3.1387507	21	12 5.3	20.3
487767 2015 RD_{205}	16.9	X	73.78683	332.82019	41.38579	11.59517	0.0777035	0.20560463	2.8430257	21	—	—
487768 2015 RM_{205}	16.9	X	258.03091	126.24384	82.27142	5.93096	0.0157506	0.21369671	2.7707935	21	—	—
487769 2015 RQ_{205}	17.0	X	10.58912	329.69641	109.98060	3.18175	0.0364526	0.20385407	2.8592785	21	—	—
487770 2015 RB_{207}	16.4	X	58.01946	189.94843	153.44813	6.34694	0.1538277	0.18612488	3.0380839	21	12 22.6	20.8
487771 2015 RG_{208}	17.1	X	161.94625	259.28921	178.59911	10.23552	0.1838083	0.26947303	2.3738823	21	5 18.7	21.0
487772 2015 RL_{208}	17.5	X	345.26431	65.24557	72.78410	1.67094	0.0225647	0.22027824	2.7153240	21	—	—
487773 2015 RP_{208}	16.5	X	331.86096	54.46376	21.59535	12.59364	0.1480411	0.17954748	3.1118346	21	12 5.6	20.2
487774 2015 RH_{213}	18.1	X	288.60282	337.93099	339.82038	5.69941	0.1035186	0.29518340	2.2339568	21	4 20.8	20.9
487775 2015 RB_{214}	17.8	X	131.00314	49.05254	11.15247	3.23561	0.1330588	0.25878188	2.4388222	21	3 18.3	20.9
487776 2015 RJ_{217}	16.8	X	342.29700	246.55499	186.31326	12.20764	0.2354341	0.18268663	3.0760841	21	12 27.9	20.1
487777 2015 RR_{220}	17.4	X	91.98002	333.40550	26.81017	9.74709	0.2068686	0.21123682	2.7922629	21	—	—
487778 2015 RB_{222}	17.4	X	112.15795	352.71094	17.22356	5.35079	0.0599153	0.22281469	2.6946778	21	—	—
487779 2015 RJ_{222}	17.2	X	330.93664	9.02163	72.60361	1.98777	0.2107919	0.18051251	3.1007340	21	12 13.9	20.1
487780 2015 RG_{224}	17.1	X	352.11032	334.47477	108.27792	3.84911	0.2145212	0.18985636	2.9981448	21	—	—
487781 2015 RP_{224}	16.6	X	316.55730	345.34707	92.66778	4.23322	0.2043528	0.17197528	3.2025214	21	11 8.7	20.1
487782 2015 RT_{226}	16.6	X	327.50736	343.59941	86.08727	7.39092	0.1338077	0.17543624	3.1602626	21	11 22.7	20.2
487783 2015 RC_{228}	17.9	X	131.74663	211.96210	181.13602	7.09231	0.0614427	0.23978405	2.5659953	21	2 2.9	21.5
487784 2015 RJ_{229}	17.3	X	345.69448	3.48307	56.16187	2.55950	0.2364520	0.17778018	3.1324236	21	12 16.1	20.3
487785 2015 RO_{229}	17.7	X	6.16951	328.79382	77.90787	2.30686	0.1859514	0.18397155	3.0617444	21	—	—
487786 2015 RY_{231}	17.5	X	22.88326	97.62251	44.44311	5.20799	0.1201018	0.23656054	2.5892531	21	1 23.4	20.3
487787 2015 RV_{235}	16.6	X	235.85083	150.18260	105.46114	14.18127	0.1636966	0.22430575	2.6827227	21	—	—
487788 2015 RV_{236}	16.5	X	285.60916	342.75990	156.08735	11.01079	0.1698741	0.17556750	3.1586873	21	12 9.1	20.7
487789 2015 RV_{237}	16.7	X	293.74162	43.96958	169.99770	12.97688	0.1294355	0.22207137	2.7006875	21	—	—
487790 2015 RW_{237}	16.4	X	65.33505	209.07240	150.08569	10.57821	0.0533306	0.18567766	3.0429603	21	—	—
487791 2015 RL_{238}	16.7	X	335.33114	348.79130	112.45768	12.86058	0.0888892	0.18611834	3.0381551	21	—	—
487792 2015 RH_{239}	16.8	X	99.66513	323.62251	93.99670	14.19311	0.0570727	0.22843485	2.6502966	21	1 28.7	20.3
487793 2015 RP_{239}	15.6	X	337.96681	342.18782	112.41392	15.24657	0.1287215	0.18251027	3.0780654	21	—	—
487794 2015 RS_{239}	16.8	X	209.48364	164.59715	161.51618	15.60950	0.1404544	0.24334572	2.5408961	21	2 9.3	20.9
487795 2015 RZ_{240}	16.3	X	354.11651	336.53648	93.80111	12.07916	0.0349397	0.18127437	3.0920401	21	12 30.4	20.5
487796 2015 RJ_{241}	16.8	X	11.65453	291.96983	183.28661	16.81676	0.1283741	0.20597979	2.8395726	21	—	—
487797 2015 RM_{242}	15.5	X	81.07801	199.49903	119.48735	14.20532	0.0321000	0.17365443	3.1818434	21	12 4.6	20.2
487798 2015 SY_{1}	17.7	X	342.93037	181.65973	62.83958	6.95051	0.1358536	0.27972906	2.3154975	21	4 1.2	20.0
487799 2015 SA_{3}	17.6	X	290.62672	300.09741	22.75965	6.72728	0.1657096	0.29141342	2.2531824	21	4 23.4	20.5
487800 2015 SE_{4}	16.7	X	83.36062	105.34630	336.83489	25.98417	0.1203054	0.24008990	2.5638156	21	2 15.9	19.7
487801 2015 SV_{4}	17.7	X	280.90300	359.96501	294.37909	6.35822	0.1144290	0.27538404	2.3397899	21	3 9.6	20.9
487802 2015 SL_{5}	17.0	X	221.57744	80.83247	233.41124	13.45526	0.1865887	0.25755312	2.4465730	21	1 31.3	21.3
487803 2015 SS_{5}	16.5	X	3.40538	42.51358	338.59285	8.59564	0.2273346	0.17455931	3.1708378	21	11 26.9	20.1
487804 2015 SH_{6}	16.9	X	14.59888	150.60805	221.55515	9.59807	0.2230356	0.17650492	3.1474935	21	12 7.7	20.6
487805 2015 SZ_{7}	16.7	X	344.85274	103.94886	322.02849	8.33195	0.2603149	0.18136309	3.0910315	21	12 27.2	19.7
487806 2015 SH_{11}	17.3	X	85.91678	69.71354	299.96886	2.66284	0.1083752	0.21484168	2.7609404	21	—	—
487807 2015 SO_{13}	17.0	X	29.68391	201.94018	224.89792	5.55162	0.0340752	0.21400530	2.7681293	21	—	—
487808 2015 SB_{14}	17.4	X	153.75178	77.74119	323.50147	5.79267	0.1463439	0.25795141	2.4440539	21	3 18.2	21.0
487809 2015 SQ_{14}	17.6	X	274.84322	310.70952	338.61007	5.95247	0.1153889	0.27295065	2.3536757	21	2 27.4	20.7
487810 2015 TE_{2}	17.2	X	324.95707	239.73146	192.94552	9.79736	0.2213684	0.17651162	3.1474138	21	11 18.9	20.5
487811 2015 TO_{4}	18.2	X	24.84412	56.76524	331.66731	18.70529	0.1015389	0.37734504	1.8966053	21	—	—
487812 2015 TD_{13}	17.1	X	5.39293	223.92075	308.76118	9.02603	0.0776729	0.25872199	2.4391986	21	2 1.7	19.8
487813 2015 TD_{18}	17.2	X	112.91826	312.75463	88.14134	16.79388	0.1943182	0.23481022	2.6021044	21	2 16.3	21.0
487814 2015 TR_{22}	17.0	X	112.51635	229.32171	180.73339	10.60862	0.1541458	0.23525198	2.5988459	21	2 14.3	20.6
487815 2015 TU_{22}	16.4	X	75.28348	304.31197	59.77416	6.61141	0.0731538	0.19972176	2.8985834	21	—	—
487816 2015 TW_{22}	16.1	X	352.46018	215.24639	189.23040	10.40430	0.2048720	0.17468587	3.1693062	21	12 7.2	19.7
487817 2015 TZ_{22}	16.9	X	116.76065	201.32136	195.57101	10.07312	0.1304480	0.23238258	2.6201954	21	1 30.2	20.5
487818 2015 TQ_{23}	16.8	X	174.41133	181.11092	148.34453	1.49442	0.1922353	0.25451110	2.4660293	21	1 14.6	20.7
487819 2015 TJ_{25}	16.8	X	179.18864	230.28211	105.20589	16.24477	0.2132387	0.24295226	2.5436387	21	1 30.3	21.0
487820 2015 TB_{27}	17.3	X	75.81636	70.29537	346.67820	9.81373	0.1997640	0.22174608	2.7033280	21	1 13.8	20.3
487821 2015 TF_{27}	16.7	X	119.39176	5.98177	332.32547	8.27937	0.1131290	0.21355542	2.7720155	21	—	—
487822 2015 TH_{65}	17.2	X	0.03470	4.87367	232.85399	5.85668	0.0903081	0.26939014	2.3743692	21	4 24.3	19.7
487823 2015 TN_{66}	17.1	X	32.94221	249.57360	243.42848	4.37298	0.1490063	0.22458762	2.6804776	21	1 28.6	19.8
487824 2015 TQ_{66}	16.6	X	215.20892	33.93017	266.37168	2.77338	0.0885983	0.23260096	2.6185551	21	1 16.7	20.4
487825 2015 TL_{67}	16.9	X	42.96448	75.47407	288.98884	4.19589	0.1465297	0.18095613	3.0956643	21	12 27.9	21.1
487826 2015 TL_{69}	16.7	X	333.26344	102.76404	335.73611	3.65845	0.1015183	0.17522230	3.1628345	21	12 11.9	20.7
487827 2015 TY_{70}	17.1	X	99.00748	341.41003	22.23589	10.01712	0.2603510	0.20990614	2.8040513	21	—	—
487828 2015 TZ_{72}	16.4	X	15.95295	353.76423	32.92931	9.78953	0.0746732	0.17390751	3.1787558	21	12 6.8	20.7
487829 2015 TF_{73}	16.3	X	94.82875	333.42576	34.98040	13.34270	0.0758456	0.20408558	2.8571158	21	—	—
487830 2015 TD_{74}	16.5	X	71.34364	127.55472	221.18630	7.90909	0.1721235	0.18918254	3.0052598	21	—	—
487831 2015 TK_{75}	16.2	X	113.30413	75.08348	215.60412	8.22838	0.0585974	0.17702141	3.1413682	21	12 8.1	20.9
487832 2015 TK_{76}	16.7	X	62.06229	133.59683	215.83715	8.38812	0.1431523	0.18335344	3.0686216	21	12 31.3	21.3
487833 2015 TC_{77}	17.4	X	355.73553	46.78650	89.14714	1.35809	0.0168169	0.21455558	2.7633942	21	—	—
487834 2015 TN_{77}	16.9	X	165.02261	105.14954	200.57925	3.14209	0.0777264	0.20941329	2.8084491	21	—	—
487835 2015 TQ_{77}	16.8	X	7.48925	192.78635	215.51743	8.76323	0.0583746	0.17872035	3.1214285	21	12 22.2	21.0
487836 2015 TK_{80}	16.3	X	312.95222	236.23081	246.39291	6.04244	0.1188375	0.18149903	3.0894880	21	—	—
487837 2015 TX_{82}	17.0	X	354.46355	23.55366	222.40586	6.80799	0.0725526	0.26770266	2.3843367	21	4 29.2	19.4
487838 2015 TF_{84}	16.3	X	263.90125	315.53779	210.12335	8.25193	0.1850949	0.17466673	3.1695377	21	12 8.3	20.7
487839 2015 TW_{84}	16.3	X	249.27315	323.68638	198.78509	5.10258	0.0757039	0.17188236	3.2036754	21	12 1.5	20.9
487840 2015 TZ_{85}	16.7	X	19.06430	309.04595	143.39482	2.76724	0.0321019	0.20303689	2.8669454	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
487841 2015 TQ_{88}	17.4	X	92.83407	182.32821	188.43395	1.79623	0.0802858	0.20240279	2.8729301	21	—	—
487842 2015 TF_{89}	16.4	X	151.30718	68.00507	221.51987	12.56101	0.0099875	0.18832062	3.0144225	21	—	—
487843 2015 TC_{91}	16.3	X	45.78982	7.10456	31.72901	12.14963	0.1228905	0.19139384	2.9820671	21	—	—
487844 2015 TZ_{93}	17.6	X	161.86281	8.29867	4.80890	0.82007	0.1345446	0.24179323	2.5517608	21	2 22.4	21.4
487845 2015 TA_{96}	16.9	X	290.20596	283.69333	220.51184	8.94340	0.0647479	0.18510564	3.0492260	21	—	—
487846 2015 TE_{96}	17.8	X	65.08161	173.08825	41.71348	3.00225	0.1454355	0.28626665	2.2801087	21	7 26.2	20.2
487847 2015 TY_{96}	16.2	X	354.11202	217.44410	233.86196	11.38412	0.2182372	0.18550353	3.0448642	21	—	—
487848 2015 TX_{99}	16.4	X	291.63823	232.37520	206.65927	6.01860	0.1356846	0.15445453	3.4403472	21	10 3.4	20.8
487849 2015 TJ_{101}	16.5	X	317.74621	319.52339	156.35902	5.24909	0.0949064	0.18039746	3.1020522	21	—	—
487850 2015 TA_{103}	17.3	X	308.68249	182.56719	114.91149	7.32907	0.1006166	0.27325770	2.3519122	21	4 29.8	20.1
487851 2015 TT_{103}	16.7	X	5.08896	3.48882	96.78398	10.60463	0.0241833	0.19904099	2.9051889	21	—	—
487852 2015 TA_{104}	17.5	X	245.25798	194.78441	147.75278	7.66455	0.2390760	0.27141066	2.3625705	21	3 30.3	21.4
487853 2015 TO_{104}	16.7	X	22.13489	253.88129	174.10980	9.69841	0.0849637	0.19064323	2.9898894	21	—	—
487854 2015 TW_{104}	16.9	X	22.31753	255.73788	172.87115	9.09849	0.0883386	0.19076449	2.9886222	21	—	—
487855 2015 TN_{105}	16.1	X	135.23280	161.59994	127.40612	6.33042	0.1012472	0.18272882	3.0756106	21	12 30.8	21.0
487856 2015 TZ_{105}	16.1	X	48.79644	180.12217	190.13815	9.34764	0.0942510	0.17920675	3.1157778	21	—	—
487857 2015 TF_{107}	16.4	X	144.76992	194.17927	79.41712	11.13201	0.0602225	0.17714093	3.1399550	21	12 20.6	21.2
487858 2015 TP_{107}	17.2	X	79.14767	193.46358	146.05257	5.58372	0.1274562	0.18167306	3.0875147	21	—	—
487859 2015 TT_{110}	16.0	X	2.56012	237.06613	204.16067	11.95695	0.0996680	0.18460616	3.0547237	21	—	—
487860 2015 TC_{113}	16.3	X	267.89692	359.86259	161.79732	11.14656	0.0572073	0.17566357	3.1575356	21	12 26.1	20.8
487861 2015 TD_{113}	16.7	X	199.40508	175.58938	147.77640	9.38305	0.3040258	0.24185311	2.5513396	21	2 1.9	21.4
487862 2015 TU_{113}	16.6	X	127.37357	153.61050	179.43061	12.34648	0.1181857	0.19855352	2.9099420	21	—	—
487863 2015 TP_{114}	17.9	X	336.28962	107.39670	173.03795	6.59141	0.1068513	0.27727124	2.3291610	21	5 17.1	20.3
487864 2015 TE_{115}	17.6	X	266.04260	220.58058	107.89170	7.01464	0.1278299	0.26578760	2.3957762	21	4 13.1	21.0
487865 2015 TJ_{117}	16.9	X	194.50902	190.46319	150.18287	15.02414	0.0335356	0.22818293	2.6522469	21	2 12.1	20.7
487866 2015 TK_{117}	15.9	X	62.73044	242.43463	108.72899	18.38789	0.2602517	0.18131649	3.0915612	21	—	—
487867 2015 TB_{123}	16.2	X	1.39078	309.34856	101.02968	9.86854	0.1311016	0.17902373	3.1179009	21	12 23.8	19.9
487868 2015 TZ_{123}	18.1	X	209.88933	238.66221	147.19783	6.87302	0.1235993	0.26990491	2.3713492	21	4 27.2	21.7
487869 2015 TW_{124}	16.8	X	67.62257	300.56934	99.17551	9.28069	0.1078699	0.20660449	2.8338458	21	—	—
487870 2015 TP_{125}	16.4	X	30.71305	288.79962	95.44410	10.63433	0.0879484	0.18231539	3.0802584	21	12 28.3	20.5
487871 2015 TF_{126}	16.2	X	50.75179	279.82617	80.05902	14.34125	0.0470226	0.18047852	3.1011233	21	12 17.7	20.5
487872 2015 TL_{126}	16.1	X	182.21398	224.33815	77.46662	14.23922	0.1274974	0.22106552	2.7088734	21	—	—
487873 2015 TB_{128}	16.8	X	273.73472	27.67458	129.02544	12.11645	0.0348185	0.18650761	3.0339262	21	—	—
487874 2015 TN_{128}	16.4	X	11.07093	318.99182	89.26890	12.44570	0.1382242	0.18225722	3.0809138	21	—	—
487875 2015 TP_{130}	17.2	X	7.55857	49.58147	97.24957	10.06567	0.1688979	0.21898710	2.7259864	21	1 1.9	20.1
487876 2015 TR_{130}	16.4	X	21.10670	309.44037	73.82233	11.94165	0.1009653	0.17695466	3.1421582	21	12 14.5	20.4
487877 2015 TW_{130}	17.0	X	125.68310	257.87618	127.16115	6.71057	0.0620046	0.22711896	2.6605236	21	1 20.2	20.5
487878 2015 TC_{133}	17.1	X	306.12756	79.16101	103.44348	10.17833	0.0930073	0.21054023	2.7984184	21	—	—
487879 2015 TS_{133}	15.8	X	309.84495	347.26444	105.75625	11.46340	0.0250729	0.17223873	3.1992549	21	12 1.3	20.3
487880 2015 TX_{134}	17.2	X	146.13559	216.45209	177.38572	15.44373	0.1508940	0.24046266	2.5611653	21	3 4.3	21.1
487881 2015 TX_{136}	16.7	X	210.33644	215.24413	84.41199	12.36277	0.1227074	0.23130207	2.6283490	21	1 12.6	20.9
487882 2015 TX_{138}	16.3	X	4.71028	297.71156	154.93719	10.09045	0.0718461	0.19468705	2.9483430	21	—	—
487883 2015 TH_{139}	16.9	X	10.65156	68.42407	98.15209	14.30316	0.1977945	0.22616693	2.6679846	21	1 31.8	19.6
487884 2015 TS_{142}	16.4	X	82.66554	186.63126	153.04597	11.39225	0.0486478	0.18369633	3.0648018	21	12 31.9	21.0
487885 2015 TP_{145}	15.3	X	325.18951	67.46690	13.23987	17.14205	0.1371681	0.17519296	3.1631876	21	11 26.5	19.3
487886 2015 TC_{146}	17.0	X	65.66298	97.41319	309.93169	3.54875	0.1208193	0.21386020	2.7693812	21	—	—
487887 2015 TM_{146}	17.2	X	143.90121	165.49826	190.99231	7.48063	0.1942906	0.23133585	2.6280931	21	1 20.6	21.2
487888 2015 TC_{147}	17.4	X	244.19773	293.88298	28.43052	8.29449	0.1433432	0.26478561	2.4018163	21	3 11.2	21.1
487889 2015 TC_{148}	16.8	X	42.90032	89.77522	12.40230	13.85055	0.1650024	0.22569801	2.6716787	21	1 8.6	19.8
487890 2015 TD_{148}	16.9	X	60.34389	45.63824	14.85493	6.18336	0.0435487	0.22106595	2.7088699	21	—	—
487891 2015 TH_{149}	17.4	X	45.81814	96.74221	4.32794	4.27455	0.0846087	0.23280413	2.6170313	21	1 6.9	20.4
487892 2015 TR_{152}	17.8	X	106.45891	195.60510	200.83922	4.50098	0.1190533	0.23166377	2.6256126	21	1 16.2	21.1
487893 2015 TM_{153}	18.0	X	338.78009	221.89981	11.48765	7.61413	0.0517849	0.26947810	2.3738525	21	3 20.2	20.6
487894 2015 TW_{155}	17.7	X	124.26437	122.28970	11.39349	6.87863	0.0469387	0.28574247	2.2828963	21	6 3.3	20.7
487895 2015 TY_{156}	17.2	X	16.23538	315.53092	195.46495	11.78006	0.0384603	0.24357883	2.5392747	21	1 23.7	20.7
487896 2015 TT_{161}	18.2	X	310.05516	181.79208	119.94071	1.52648	0.1602663	0.29268193	2.2466674	21	4 22.9	20.7
487897 2015 TH_{166}	17.7	X	291.72985	128.23123	196.83775	9.37833	0.2728355	0.29318318	2.2441059	21	4 13.5	20.8
487898 2015 TV_{167}	16.6	X	145.81772	239.44783	90.31366	3.97762	0.1013360	0.21890156	2.7266966	21	—	—
487899 2015 TT_{170}	17.3	X	62.13092	308.01042	126.01528	6.01267	0.0341679	0.21954577	2.7213600	21	—	—
487900 2015 TW_{170}	17.0	X	144.65171	225.30480	142.28900	5.02083	0.0912489	0.23075982	2.6324649	21	1 24.3	20.7
487901 2015 TU_{174}	16.1	X	65.16189	174.19059	187.29894	13.29126	0.0517733	0.18638084	3.0353018	21	—	—
487902 2015 TF_{177}	16.8	X	195.18916	151.95475	92.76630	9.99938	0.0419388	0.19154474	2.9805007	21	—	—
487903 2015 TV_{177}	16.9	X	78.79708	338.00408	60.63154	7.08341	0.0403762	0.21575500	2.7531432	21	—	—
487904 2015 TA_{180}	16.3	X	116.19888	233.01177	64.60276	17.05511	0.0835408	0.17993958	3.1073124	21	12 19.8	21.1
487905 2015 TC_{180}	16.8	X	30.01568	303.00607	88.36083	10.40296	0.1347343	0.18208164	3.0828941	21	—	—
487906 2015 TB_{183}	17.0	X	73.89556	13.38124	24.80528	6.67382	0.0486160	0.21466555	2.7624503	21	—	—
487907 2015 TE_{183}	17.5	X	61.95404	281.22193	194.83740	4.74853	0.1957706	0.23618815	2.5919741	21	3 3.7	20.0
487908 2015 TJ_{183}	17.1	X	124.47523	171.19737	195.26422	4.68001	0.0236251	0.22524000	2.6752992	21	—	—
487909 2015 TM_{183}	16.7	X	193.10110	257.48423	26.56796	5.86184	0.0418750	0.22033820	2.7148314	21	—	—
487910 2015 TX_{183}	16.2	X	30.67832	349.82083	43.48698	11.88256	0.1316396	0.18383460	3.0632648	21	—	—
487911 2015 TR_{184}	16.5	X	315.42642	293.89633	193.25608	10.54581	0.0555229	0.19122502	2.9838219	21	—	—
487912 2015 TC_{192}	17.3	X	116.37226	307.63783	61.42637	4.04440	0.1608876	0.22670212	2.6637839	21	1 3.1	20.8
487913 2015 TY_{193}	17.6	X	240.85307	18.01892	324.36237	7.16593	0.1435080	0.27481022	2.3430459	21	3 26.1	21.3
487914 2015 TJ_{194}	17.0	X	113.31977	38.94283	319.81242	9.93265	0.1792098	0.21988984	2.7185205	21	—	—
487915 2015 TZ_{194}	16.7	X	87.11274	15.17656	351.72745	9.08308	0.1638443	0.20957066	2.8070430	21	—	—
487916 2015 TX_{195}	16.2	X	22.23922	98.29458	295.97513	12.75297	0.1968797	0.18728375	3.0255383	21	—	—
487917 2015 TB_{196}	15.9	X	38.80274	12.43406	331.05663	14.29710	0.1956675	0.17781981	3.1319582	21	12 1.3	20.4
487918 2015 TG_{197}	16.5	X	50.57272	322.39424	32.23983	6.96825	0.1738610	0.18896044	3.0076142	21	12 30.9	20.9
487919 2015 TL_{200}	17.3	X	139.91469	30.58228	5.07491	14.92610	0.1267265	0.24352255	2.5396659	21	3 2.3	21.0
487920 2015 TZ_{200}	17.2	X	179.49899	296.08246	29.33197	9.13016	0.1740605	0.23832068	2.5764886	21	1 17.9	21.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
487921 2015 TM_{203}	15.9	X	330.14609	44.54533	30.66970	21.47307	0.1553693	0.17310315	3.1885954	21	11 26.4	19.8
487922 2015 TU_{203}	16.5	X	21.26451	150.80010	240.40040	5.92408	0.1261944	0.18290813	3.0736002	21	12 29.1	20.5
487923 2015 TF_{204}	18.1	X	319.10941	324.42273	15.55854	2.21671	0.0997448	0.30517015	2.1849492	21	7 18.9	19.9
487924 2015 TN_{206}	15.5	X	299.93300	264.63727	216.34511	21.17397	0.1237484	0.17739097	3.1370038	21	12 12.0	19.7
487925 2015 TO_{206}	17.5	X	254.01696	314.02370	35.09923	6.74270	0.1209868	0.27697874	2.3308004	21	4 23.1	20.8
487926 2015 TV_{206}	17.1	X	93.62085	30.36373	4.74591	2.96490	0.0987972	0.22259157	2.6964782	21	—	—
487927 2015 TZ_{206}	17.1	X	1.05049	253.10467	142.54596	9.74566	0.0759524	0.17355836	3.1830175	21	11 30.8	21.4
487928 2015 TG_{207}	17.6	X	112.50878	176.04534	266.37440	3.75313	0.0668374	0.25341897	2.4731092	21	3 12.6	20.8
487929 2015 TB_{208}	16.7	X	110.75733	61.68947	279.37022	8.01157	0.1725348	0.21062142	2.7976992	21	—	—
487930 2015 TJ_{209}	16.5	X	139.90236	257.33333	59.68088	5.70406	0.0589756	0.20931599	2.8093193	21	—	—
487931 2015 TR_{209}	17.4	X	134.82225	5.30906	14.18137	5.15784	0.2263322	0.23329704	2.6133439	21	2 15.3	21.3
487932 2015 TA_{210}	16.0	X	3.35618	60.09089	359.47390	10.08638	0.1074274	0.18263022	3.0767175	21	—	—
487933 2015 TP_{213}	18.1	X	117.90706	154.28575	354.08770	7.83242	0.0407488	0.29123060	2.2541253	21	6 15.8	20.9
487934 2015 TH_{217}	17.9	X	99.61313	29.16115	17.67850	7.17901	0.1096754	0.23374610	2.6099957	21	1 21.5	21.2
487935 2015 TB_{219}	17.1	X	69.47816	248.69167	169.91382	2.41030	0.0775351	0.22424994	2.6831677	21	—	—
487936 2015 TE_{220}	17.1	X	98.15220	353.03871	23.26945	8.83252	0.0557086	0.22007231	2.7170175	21	—	—
487937 2015 TG_{220}	17.5	X	67.86174	61.28207	34.43087	4.12808	0.1638124	0.23499167	2.6007647	21	2 13.1	20.2
487938 2015 TU_{220}	16.9	X	106.98161	353.85745	16.93996	6.46532	0.0412511	0.22134980	2.7065536	21	—	—
487939 2015 TO_{223}	17.2	X	140.47649	322.46875	26.01507	14.54313	0.2777735	0.22669218	2.6638618	21	1 23.3	21.7
487940 2015 TC_{231}	16.7	X	220.97015	356.02158	321.03573	13.00749	0.1520040	0.24242022	2.5473590	21	2 10.2	20.7
487941 2015 TK_{231}	16.5	X	335.85516	224.24805	346.03581	12.61954	0.0508456	0.23730442	2.5838393	21	2 19.5	19.7
487942 2015 TP_{232}	16.7	X	160.30602	260.29246	119.52101	15.13401	0.1350315	0.24001377	2.5643578	21	3 5.2	20.7
487943 2015 TS_{234}	16.8	X	153.52052	236.24482	89.58431	7.17904	0.0384761	0.21592900	2.7516640	21	—	—
487944 2015 TB_{235}	15.9	X	317.22596	357.74460	90.93809	6.54352	0.1124488	0.17478792	3.1680725	21	11 30.4	19.9
487945 2015 TM_{235}	16.9	X	92.61468	241.08625	134.98794	5.19653	0.0857562	0.21054411	2.7983840	21	—	—
487946 2015 TB_{239}	15.6	X	350.46704	80.42028	288.57873	24.27185	0.2368724	0.17137618	3.2099807	21	9 29.9	19.5
487947 2015 TN_{241}	17.6	X	211.96683	5.45931	342.18974	5.25219	0.1306162	0.26358464	2.4091064	21	3 8.6	21.1
487948 2015 TP_{242}	17.1	X	181.80853	55.19235	281.23790	8.14477	0.1808493	0.24071372	2.5593842	21	1 29.4	21.2
487949 2015 TB_{243}	17.2	X	102.20129	16.18587	36.85915	12.33478	0.0440398	0.23334702	2.6129707	21	1 25.6	20.8
487950 2015 TK_{246}	17.4	X	359.04181	177.61023	231.68442	1.88093	0.1934183	0.18361083	3.0657532	21	12 26.4	20.8
487951 2015 TN_{251}	16.9	X	117.73327	165.66844	188.74266	4.34790	0.0808433	0.21414465	2.7669282	21	—	—
487952 2015 TH_{252}	16.9	X	55.63119	332.45657	68.80218	2.89894	0.0905805	0.20303606	2.8669532	21	—	—
487953 2015 TT_{255}	16.3	X	7.39575	78.71868	315.46752	16.07479	0.1829174	0.17578106	3.1561284	21	12 18.9	20.3
487954 2015 TA_{260}	16.3	X	356.64411	59.24524	3.58129	8.80428	0.1967201	0.18213839	3.0822537	21	—	—
487955 2015 TW_{263}	17.8	X	151.55280	126.09344	224.01068	10.07475	0.1112492	0.23603158	2.5931202	21	1 10.1	21.7
487956 2015 TG_{265}	16.7	X	76.24421	127.58081	249.02815	5.31042	0.0699347	0.21094073	2.7948752	21	—	—
487957 2015 TL_{265}	16.6	X	56.48884	269.54149	202.83466	20.91687	0.1091000	0.24187698	2.5511717	21	1 31.9	20.0
487958 2015 TS_{281}	18.3	X	21.23353	303.04280	322.51330	3.47279	0.0466811	0.30254881	2.1975516	21	7 15.0	20.3
487959 2015 TH_{282}	16.7	X	331.28651	217.80635	223.84216	8.21374	0.1107512	0.18381334	3.0635011	21	12 15.3	20.4
487960 2015 TD_{288}	16.7	X	123.03409	50.37672	313.09064	14.95334	0.2237539	0.22144929	2.7057429	21	1 15.8	20.6
487961 2015 TW_{290}	16.4	X	265.63464	358.32226	267.61238	14.59559	0.0962309	0.24621795	2.5210971	21	1 21.1	20.2
487962 2015 TH_{296}	17.0	X	356.74998	69.13153	22.69474	10.84651	0.0470456	0.20408720	2.8571006	21	—	—
487963 2015 TR_{297}	18.1	X	35.77085	293.56018	305.30641	2.08306	0.0950262	0.30046820	2.2076847	21	7 3.1	20.1
487964 2015 TC_{298}	16.1	X	337.60583	160.24867	267.75746	16.15251	0.1812443	0.17416987	3.1755628	21	12 7.1	19.6
487965 2015 TL_{298}	16.7	X	159.15813	48.49506	311.32084	9.08840	0.1979630	0.23795405	2.5791345	21	2 8.6	20.7
487966 2015 TV_{298}	15.8	X	45.46271	63.93471	275.28989	8.99520	0.1234779	0.17455925	3.1708386	21	11 25.4	20.2
487967 2015 TJ_{300}	17.4	X	158.37153	156.28905	253.31847	4.18549	0.1049506	0.25509848	2.4622424	21	3 30.6	21.0
487968 2015 TW_{300}	17.0	X	76.24831	4.40323	105.77335	7.13284	0.0367380	0.24735084	2.5133933	21	3 1.2	20.1
487969 2015 TA_{301}	17.7	X	272.68335	173.32095	137.73167	3.19043	0.2263220	0.27874826	2.3209259	21	3 14.0	21.3
487970 2015 TB_{301}	18.1	X	178.41352	345.87368	81.74923	4.17029	0.0863284	0.27519205	2.3408781	21	5 16.1	21.2
487971 2015 TW_{303}	16.1	X	47.14044	5.01158	30.57677	15.32270	0.0916511	0.19219870	2.9737360	21	—	—
487972 2015 TA_{304}	15.8	X	35.47337	341.83902	40.82680	18.19245	0.0672261	0.18023458	3.1039209	21	12 28.5	20.3
487973 2015 TE_{305}	17.0	X	16.03097	275.00769	147.98458	11.29245	0.1068229	0.19203707	2.9754044	21	—	—
487974 2015 TY_{305}	17.2	X	171.27817	162.25850	181.16197	14.04181	0.1967607	0.24067076	2.5596888	21	1 28.6	21.5
487975 2015 TE_{307}	16.1	X	339.09340	312.92014	105.61799	15.21615	0.0713540	0.17764630	3.1339972	21	11 29.7	20.3
487976 2015 TN_{307}	16.8	X	133.02819	243.08463	127.68195	13.25052	0.2032799	0.23187489	2.6240186	21	1 29.5	20.5
487977 2015 TE_{308}	16.7	X	103.02232	277.87686	96.90713	16.92137	0.1787405	0.21876819	2.7278047	21	—	—
487978 2015 TL_{310}	15.9	X	349.30113	331.02203	79.41702	18.89681	0.2171080	0.17633500	3.1495151	21	12 9.7	19.2
487979 2015 TT_{312}	17.7	X	164.17337	257.90671	149.94539	2.78133	0.1890055	0.25694220	2.4504495	21	4 12.3	21.6
487980 2015 TP_{314}	17.2	X	113.73948	69.50225	342.81944	5.74559	0.0548103	0.24046259	2.5611659	21	2 6.3	20.4
487981 2015 TQ_{319}	17.5	X	324.89244	296.04086	151.33720	0.73776	0.1510998	0.18062634	3.0994312	21	12 10.8	21.1
487982 2015 TS_{319}	17.3	X	33.80924	324.85759	46.11832	2.10175	0.1586144	0.18481306	3.0524433	21	12 26.8	21.3
487983 2015 TZ_{319}	16.2	X	270.91398	117.51774	24.07827	12.72539	0.1073691	0.18188793	3.0850826	21	11 27.4	20.5
487984 2015 TZ_{321}	15.7	X	306.73043	221.83757	267.89042	14.77645	0.1521102	0.18111937	3.0938039	21	—	—
487985 2015 TO_{322}	17.1	X	34.45144	22.34162	69.08003	4.13992	0.0555330	0.22096948	2.7096583	21	—	—
487986 2015 TP_{323}	16.2	X	324.81604	10.87677	86.10315	11.66709	0.0878997	0.18347343	3.0672836	21	12 24.6	19.9
487987 2015 TH_{326}	16.5	X	91.61967	236.11585	162.67778	14.28362	0.1076962	0.22071862	2.7117110	21	—	—
487988 2015 TO_{326}	15.7	X	350.37721	327.80208	81.97494	11.57824	0.2000091	0.17638599	3.1489081	21	12 9.6	19.1
487989 2015 TF_{329}	16.9	X	104.39425	281.37763	103.13153	8.02167	0.1356720	0.22133825	2.7066477	21	1 4.0	20.3
487990 2015 TZ_{329}	17.2	X	343.98982	197.64148	96.82725	10.21889	0.1096779	0.29785153	2.2205957	21	6 20.8	19.0
487991 2015 TY_{331}	16.9	X	44.92635	43.84991	76.81063	15.26336	0.0690210	0.23273469	2.6175519	21	2 3.6	20.3
487992 2015 TL_{332}	15.6	X	162.43251	143.83945	83.74942	15.88047	0.0461079	0.17147700	3.2087222	21	11 18.3	20.5
487993 2015 TE_{335}	16.7	X	318.10522	312.13629	137.22479	12.70292	0.1270464	0.17373041	3.1809156	21	12 3.6	20.7
487994 2015 TU_{336}	16.5	X	329.49506	61.40673	37.94533	9.77944	0.2346119	0.18178807	3.0862123	21	—	—
487995 2015 TA_{337}	16.3	X	359.74183	228.06870	193.24571	21.83027	0.1722773	0.18330780	3.0691310	21	—	—
487996 2015 TW_{341}	16.9	X	21.25835	326.85839	98.95646	17.59571	0.2147250	0.20393741	2.8584995	21	—	—
487997 2015 TK_{344}	17.2	X	176.82027	239.30347	82.36750	3.19374	0.0736231	0.22913706	2.6448791	21	1 2.6	21.0
487998 2015 TD_{345}	16.9	X	357.83925	118.70586	37.11102	11.00567	0.2205100	0.22254988	2.6968149	21	—	—
487999 2015 TH_{345}	16.7	X	352.39415	272.40230	167.31872	3.40671	0.1208300	0.18957319	3.0011298	21	—	—
488000 2015 TK_{345}	17.5	X	187.67297	143.43248	154.67122	2.61992	0.0994004	0.22507157	2.6766338	21	—	—