Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
540001 2017 KQ_{13}	17.2	X	25.99864	263.73414	6.57878	6.13518	0.1356096	0.27884599	2.3203836	21	8 12.0	19.4
540002 2017 KX_{14}	18.1	X	52.94893	267.40896	341.23792	6.33278	0.0983118	0.28556913	2.2838200	21	8 18.9	20.5
540003 2017 KH_{16}	16.7	X	0.54158	320.51059	242.84789	13.04077	0.0858802	0.22347774	2.6893451	21	3 8.5	20.2
540004 2017 KM_{19}	16.5	X	243.87526	33.20614	249.13751	8.40378	0.2308302	0.18275794	3.0752839	21	1 22.7	21.9
540005 2017 KT_{19}	17.9	X	16.67509	223.49099	69.24039	5.49051	0.1846740	0.27774891	2.3264897	21	9 6.6	19.8
540006 2017 KE_{20}	16.9	X	274.15691	238.19672	74.95085	14.12375	0.2929039	0.21191383	2.7863127	21	3 25.2	21.7
540007 2017 KW_{20}	16.7	X	337.23452	20.70952	234.58826	17.70886	0.2016244	0.23245349	2.6196625	21	3 25.9	20.0
540008 2017 KX_{25}	16.6	X	226.23768	91.74222	205.30604	13.33740	0.1276210	0.17696677	3.1420149	21	1 28.3	21.8
540009 2017 KE_{27}	19.0	X	357.82934	359.66992	88.66853	24.42071	0.0974955	0.37549179	1.9028407	21	—	—
540010 2017 KH_{27}	18.0	X	105.81587	232.07458	97.27392	24.61504	0.1146187	0.36962535	1.9229215	21	—	—
540011 2017 KU_{27}	17.2	X	341.58145	167.00111	104.28488	7.98948	0.1905915	0.24236632	2.5477366	21	5 6.9	19.7
540012 2017 KY_{28}	16.8	X	330.78796	25.62912	286.46921	14.89221	0.1524800	0.23821929	2.5772196	21	6 20.1	19.5
540013 2017 KQ_{29}	17.3	X	28.22643	139.31404	137.42639	3.10431	0.2067058	0.27295000	2.3536795	21	9 5.1	19.2
540014 2017 KP_{30}	17.2	X	16.20462	135.20125	100.29632	4.96302	0.0667186	0.24476010	2.5310980	21	5 24.3	20.1
540015 2017 KE_{31}	18.1	X	76.98073	230.20259	145.42519	25.80478	0.1240415	0.37379607	1.9085911	21	—	—
540016 2017 KG_{31}	18.4	X	30.67333	317.09419	109.67123	24.07275	0.0739325	0.37670623	1.8987488	21	—	—
540017 2017 KH_{32}	18.4	X	353.36009	357.46121	101.37336	24.67660	0.1029588	0.38160733	1.8824563	21	—	—
540018 2017 KH_{33}	17.0	X	316.50433	189.83004	94.59638	4.20797	0.2686600	0.23111341	2.6297792	21	3 30.2	20.2
540019 2017 KY_{33}	16.8	X	242.64528	125.21901	181.31326	22.73316	0.2628655	0.18516127	3.0486153	21	2 15.7	22.3
540020 2017 KC_{34}	15.7	X	101.45931	266.23723	274.66039	30.24689	0.2226198	0.23816575	2.5776059	21	7 24.5	20.0
540021 2017 KH_{34}	18.0	X	323.39273	36.04627	97.26740	23.26178	0.0772542	0.38235575	1.8799991	21	—	—
540022 2017 KE_{36}	16.2	X	264.79026	230.37802	81.89639	10.27040	0.1640804	0.21086110	2.7955788	21	3 25.8	20.7
540023 2017 KB_{37}	17.4	X	292.96859	185.65894	100.75110	4.21054	0.1529593	0.21472134	2.7619718	21	3 22.0	21.3
540024 2017 KD_{37}	16.0	X	214.82017	70.73879	229.57542	9.68131	0.1015386	0.17183389	3.2042779	21	1 23.6	21.2
540025 2017 KE_{37}	18.0	X	6.83445	88.79681	227.87735	7.37938	0.1161077	0.28223592	2.3017661	21	9 8.9	20.3
540026 2017 KQ_{37}	16.3	X	206.24456	265.87372	74.94724	16.55531	0.2465786	0.17945534	3.1128996	21	3 12.3	22.0
540027 2017 LA_{1}	18.2	X	16.09871	4.50637	89.37985	24.60693	0.0486469	0.38645048	1.8666955	21	—	—
540028 2017 LX_{1}	16.3	X	293.09855	155.20896	132.68963	15.46248	0.0649659	0.21346065	2.7728359	21	4 9.9	20.4
540029 2017 MJ_{1}	16.9	X	221.11796	239.21111	168.54183	15.55899	0.1449438	0.24138843	2.5546128	21	6 6.2	21.2
540030 2017 MT_{2}	18.2	X	132.11367	212.47967	142.06446	24.22563	0.0468792	0.39205210	1.8488720	21	—	—
540031 2017 MX_{3}	16.8	X	288.99269	222.65042	129.40006	16.03149	0.2802505	0.24360914	2.5390641	21	5 24.0	20.7
540032 2017 MK_{5}	15.9	X	282.69905	349.86576	279.66443	11.88797	0.1334434	0.17585657	3.1552248	21	2 18.3	20.7
540033 2017 MQ_{6}	18.7	X	15.16616	341.37045	102.34287	25.93977	0.1169292	0.37945327	1.8895738	21	—	—
540034 2017 MG_{8}	18.1	X	70.06613	298.29440	96.65954	22.45725	0.1096916	0.37677182	1.8985284	21	—	—
540035 2017 MF_{9}	17.9	X	191.54718	220.55171	108.28638	24.74645	0.0500162	0.39501896	1.8396029	21	—	—
540036 2017 MH_{9}	16.4	X	306.15627	235.24322	110.56576	14.98562	0.1193724	0.24060680	2.5601424	21	6 30.9	19.4
540037 2017 MO_{9}	17.5	X	308.83379	56.39755	299.35777	10.43767	0.2040356	0.23759940	2.5817003	21	7 6.6	20.2
540038 2017 MY_{9}	17.3	X	314.51960	179.16435	152.04847	5.00528	0.2535101	0.24567529	2.5248083	21	6 1.1	20.1
540039 2017 MA_{10}	16.1	X	6.09891	327.26213	274.20704	17.70868	0.2570064	0.22967016	2.6407847	21	5 6.3	18.4
540040 2017 MC_{10}	18.1	X	59.26587	110.20036	165.80767	5.88713	0.1159898	0.27620427	2.3351554	21	10 9.7	20.9
540041 2017 NN_{1}	16.5	X	298.84895	168.98982	122.04225	3.26745	0.1099377	0.19864069	2.9090906	21	4 11.8	20.4
540042 2017 NS_{1}	16.7	X	254.52825	358.11326	320.43500	2.28985	0.1192978	0.18092543	3.0960145	21	3 24.1	21.5
540043 2017 NA_{2}	16.2	X	154.81615	53.54541	295.28527	1.69759	0.2734855	0.12370880	3.9890454	21	2 11.2	22.8
540044 2017 NX_{2}	16.1	X	213.60939	251.53191	137.68864	16.06944	0.0934662	0.19026810	2.9938180	21	5 14.3	21.0
540045 2017 NB_{3}	17.5	X	306.42871	55.60060	316.18962	14.86014	0.1905191	0.23967923	2.5667433	21	7 29.5	20.2
540046 2017 NG_{3}	16.7	X	311.46749	224.38239	127.08423	32.97665	0.2056409	0.23135935	2.6279152	21	7 7.0	19.9
540047 2017 NK_{4}	17.4	X	328.68931	199.65820	134.72939	8.59475	0.2010221	0.23347535	2.6120132	21	7 12.7	20.0
540048 2017 NZ_{4}	15.8	X	245.03246	232.32621	112.61818	12.77759	0.1910344	0.17974124	3.1095979	21	4 16.2	21.0
540049 2017 ND_{5}	17.0	X	317.93900	227.69330	126.32325	14.09087	0.1730984	0.23502429	2.6005241	21	7 25.3	19.4
540050 2017 NJ_{5}	17.1	X	327.82194	199.93112	130.89060	8.79471	0.2091874	0.22938977	2.6429362	21	7 4.2	19.8
540051 2017 ND_{6}	18.0	X	8.41876	181.55369	254.76830	19.23063	0.0763571	0.37158554	1.9161530	21	—	—
540052 2017 OH_{2}	17.2	X	301.06632	63.99888	303.63046	11.79107	0.2919721	0.22904472	2.6455899	21	6 25.4	20.4
540053 2017 OY_{2}	16.3	X	307.66743	301.74418	328.71060	12.18057	0.1160411	0.17963485	3.1108255	21	3 23.3	20.7
540054 2017 OT_{5}	17.0	X	264.53296	287.40097	143.97800	18.52305	0.2700228	0.23523448	2.5989748	21	8 5.5	20.7
540055 2017 OU_{5}	15.7	X	243.56187	205.92690	145.75187	16.68898	0.0817286	0.18419304	3.0592894	21	5 1.4	20.5
540056 2017 OB_{6}	17.6	X	53.21368	173.51148	89.72769	5.91379	0.1677777	0.25588497	2.4571945	21	9 21.3	20.6
540057 2017 OT_{6}	18.3	X	329.29840	285.16194	115.19848	7.32194	0.1554165	0.27463255	2.3440564	21	11 11.8	20.4
540058 2017 OA_{7}	16.7	X	56.89290	240.36837	324.89158	12.20979	0.1170515	0.21366588	2.7710600	21	6 24.1	20.4
540059 2017 OD_{8}	16.3	X	262.22962	180.69875	128.27280	6.07731	0.1083930	0.17924564	3.1153270	21	3 25.2	21.0
540060 2017 OZ_{8}	16.2	X	262.44346	184.86150	139.89302	11.16313	0.1003624	0.19128158	2.9832337	21	4 15.2	20.8
540061 2017 OV_{9}	16.1	X	221.33238	106.55507	259.37759	9.56050	0.0438677	0.19012149	2.9953569	21	4 18.0	20.6
540062 2017 ON_{10}	16.7	X	245.60451	94.73972	288.50241	7.21225	0.0967821	0.21363094	2.7713622	21	6 3.6	20.9
540063 2017 OY_{10}	16.3	X	236.80762	145.35120	176.03217	6.32755	0.1281832	0.17015677	3.2252984	21	3 11.1	21.3
540064 2017 OF_{11}	16.3	X	229.09040	229.55700	140.76883	10.41771	0.1291180	0.18780974	3.0198867	21	5 3.3	21.2
540065 2017 OO_{11}	16.9	X	196.85398	241.41290	143.43851	2.51104	0.1179308	0.17413745	3.1759568	21	4 18.5	21.8
540066 2017 OS_{11}	17.6	X	319.50129	252.53568	133.41469	6.61630	0.1482636	0.25904694	2.4371583	21	9 24.9	19.8
540067 2017 OG_{12}	17.3	X	230.90520	259.07269	138.00388	6.86977	0.0636401	0.21033317	2.8002547	21	6 9.3	21.4
540068 2017 OE_{14}	17.3	X	18.55814	330.26963	298.60077	2.31928	0.1266333	0.24596394	2.5228525	21	7 20.5	19.8
540069 2017 OV_{14}	16.1	X	251.96543	8.83655	304.95692	8.40491	0.0680525	0.18358329	3.0660598	21	3 17.2	20.7
540070 2017 OX_{14}	17.0	X	153.62968	334.52709	107.79200	3.18722	0.0343213	0.20401183	2.8578043	21	5 7.9	21.0
540071 2017 ON_{16}	16.3	X	205.66479	240.39017	129.71672	10.21366	0.1156825	0.17551818	3.1592789	21	4 12.4	21.4
540072 2017 OA_{17}	17.5	X	307.36144	214.85281	179.84659	6.83546	0.1325668	0.25557554	2.4591774	21	9 12.1	20.1
540073 2017 OW_{17}	16.3	X	212.55917	196.50383	165.02996	18.66367	0.1786594	0.17285440	3.1916537	21	4 5.9	21.7
540074 2017 ON_{20}	15.6	X	166.57314	228.75842	107.49364	8.24366	0.2764877	0.12415764	3.9794259	21	2 7.2	22.2
540075 2017 OD_{21}	17.4	X	283.90893	96.60468	266.10098	6.74881	0.2297880	0.21605525	2.7505919	21	6 4.5	21.4
540076 2017 OB_{22}	17.3	X	153.37422	122.99459	358.71727	2.92179	0.1486484	0.22442762	2.6817514	21	7 3.7	21.6
540077 2017 OS_{22}	16.3	X	249.12555	180.61680	132.96848	9.65526	0.0647565	0.17386466	3.1792781	21	3 22.4	21.1
540078 2017 OM_{24}	15.9	X	152.33416	294.68933	132.85598	14.38952	0.1357474	0.17531965	3.1616636	21	5 2.3	21.1
540079 2017 OQ_{28}	16.4	X	233.21329	166.93889	183.62414	14.31731	0.0452480	0.17663659	3.1459291	21	4 18.5	21.0
540080 2017 OO_{29}	15.4	X	313.23310	68.07766	192.70419	15.87949	0.0331806	0.17221389	3.1995625	21	4 4.9	19.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
540081 2017 OR_{30}	16.4	X	355.15859	351.68063	245.75159	8.85892	0.0845364	0.18699804	3.0286192	21	4 24.9	20.4
540082 2017 OU_{31}	16.0	X	217.51209	134.24669	209.71567	9.30078	0.0740506	0.15705444	3.4022737	21	3 21.2	21.2
540083 2017 OJ_{32}	16.2	X	272.90492	47.07224	274.94772	8.12912	0.0857702	0.18519282	3.0482689	21	4 18.8	20.7
540084 2017 OR_{33}	16.8	X	262.45638	121.62715	268.04741	6.95569	0.1939405	0.21306097	2.7763025	21	6 19.8	20.9
540085 2017 OJ_{34}	16.7	X	229.88884	176.78173	186.51840	11.20370	0.0987107	0.17812391	3.1283925	21	4 26.2	21.5
540086 2017 OX_{34}	16.4	X	189.03285	241.76498	183.75512	10.11437	0.2364706	0.17717897	3.1395057	21	5 29.7	22.0
540087 2017 OE_{38}	18.2	X	305.74201	37.43102	160.68483	23.12578	0.0402854	0.37118634	1.9175266	21	—	—
540088 2017 OH_{40}	17.7	X	200.75189	253.21633	302.25957	5.42892	0.0843197	0.29746112	2.2225382	21	12 5.2	20.5
540089 2017 OJ_{40}	17.3	X	234.89095	270.44121	162.66490	13.10788	0.0696838	0.22459217	2.6804413	21	7 28.6	21.2
540090 2017 OK_{40}	15.9	X	315.28839	120.40197	165.89157	19.99111	0.0637064	0.18729048	3.0254658	21	5 8.7	20.3
540091 2017 OZ_{40}	17.1	X	42.39749	94.31706	173.96327	13.93270	0.0392761	0.23622406	2.5917113	21	8 15.4	20.5
540092 2017 OC_{42}	17.5	X	297.78296	74.16452	299.40883	5.41349	0.1673971	0.22818144	2.6522584	21	7 19.3	20.6
540093 2017 OR_{42}	16.3	X	269.36513	122.05213	182.57734	10.54914	0.0943992	0.17085255	3.2165359	21	3 28.3	20.9
540094 2017 OL_{44}	16.3	X	275.94353	106.10553	225.48811	9.10563	0.0024725	0.18888651	3.0083988	21	5 19.9	20.4
540095 2017 OK_{45}	17.9	X	96.16689	347.98507	287.89039	7.39931	0.1099922	0.28471260	2.2883982	21	11 20.9	21.3
540096 2017 OD_{46}	16.0	X	308.15912	345.15242	296.59386	8.69476	0.0633688	0.17735131	3.1374714	21	4 15.4	20.6
540097 2017 OK_{46}	18.3	X	52.24837	92.12395	260.14013	4.07685	0.1533936	0.29787899	2.2204592	21	—	—
540098 2017 OV_{46}	17.4	X	41.42592	31.38488	280.38479	5.00251	0.1339211	0.26763160	2.3847588	21	11 1.6	20.4
540099 2017 OJ_{48}	16.1	X	202.16652	142.79304	260.10511	8.17022	0.0848421	0.17906008	3.1174790	21	5 13.9	21.0
540100 2017 OP_{52}	16.2	X	194.34330	277.07964	112.01497	9.77915	0.0836366	0.18445210	3.0564243	21	4 23.9	21.0
540101 2017 OS_{52}	16.8	X	248.35641	216.13399	119.58759	11.92594	0.0911975	0.18798903	3.0179662	21	4 15.7	21.5
540102 2017 OT_{52}	15.9	X	270.34041	170.31875	119.15243	10.92267	0.0193760	0.17433283	3.1735835	21	3 24.2	20.5
540103 2017 OV_{52}	16.4	X	14.88732	138.31523	115.56696	7.98335	0.0490920	0.22518043	2.6757711	21	6 17.6	19.7
540104 2017 OX_{52}	17.1	X	281.28636	302.91172	19.47638	2.03801	0.0544368	0.20369768	2.8607418	21	5 5.4	21.1
540105 2017 OO_{55}	16.5	X	146.69362	217.52068	257.66568	0.76334	0.0379022	0.19806187	2.9147555	21	6 10.6	20.6
540106 2017 OA_{56}	18.1	X	71.29314	337.03751	318.04082	5.45200	0.1534052	0.28414983	2.2914187	21	11 22.8	21.3
540107 2017 OH_{58}	16.3	X	67.27641	201.72957	339.23504	9.49355	0.0439583	0.19045144	2.9918963	21	5 23.9	20.6
540108 2017 OF_{59}	16.8	X	98.24771	341.40984	162.79253	4.05735	0.0477286	0.18249361	3.0782527	21	5 21.8	21.1
540109 2017 OO_{59}	17.6	X	325.22577	59.99305	328.17843	5.73475	0.1144934	0.25696073	2.4503317	21	10 5.8	20.1
540110 2017 OV_{59}	17.4	X	263.39356	80.60692	337.38119	9.73105	0.1597468	0.22762543	2.6565757	21	8 4.3	21.0
540111 2017 OK_{60}	17.8	X	125.80273	213.98471	37.01529	2.26782	0.1027368	0.29019726	2.2594731	21	11 22.1	20.8
540112 2017 OT_{60}	17.7	X	308.32016	237.75450	149.35083	17.10614	0.1547647	0.24188731	2.5510991	21	8 30.2	20.3
540113 2017 OE_{62}	17.2	X	293.34274	72.63066	331.14559	14.03599	0.1779541	0.23910041	2.5708841	21	8 23.5	20.2
540114 2017 OQ_{62}	17.8	X	258.36414	151.71769	341.71883	5.67095	0.2244850	0.27688289	2.3313383	21	10 30.2	20.6
540115 2017 OX_{62}	16.1	X	293.62973	163.95526	157.47695	11.52689	0.0489354	0.19172091	2.9786746	21	5 25.1	20.4
540116 2017 OZ_{62}	16.9	X	255.07424	70.68391	343.67780	21.60975	0.0421682	0.22801018	2.6535863	21	8 11.2	20.7
540117 2017 OK_{63}	17.9	X	284.32566	317.80781	117.32559	3.84562	0.0599594	0.26129583	2.4231542	21	10 15.9	20.7
540118 2017 OR_{63}	16.8	X	127.43749	155.52497	32.56211	5.54680	0.2006048	0.23948460	2.5681338	21	9 6.9	21.0
540119 2017 OJ_{64}	16.4	X	250.05007	215.81382	128.81256	9.53843	0.0724092	0.17667974	3.1454169	21	4 29.9	21.2
540120 2017 OU_{64}	18.1	X	342.42357	254.30557	141.10508	4.42400	0.1504819	0.27469646	2.3436927	21	11 29.5	20.2
540121 2017 OF_{66}	17.0	X	336.97135	179.02709	135.05681	6.93783	0.0916770	0.20320866	2.8653295	21	7 9.6	20.5
540122 2017 OY_{66}	17.5	X	326.49793	228.78431	160.88350	13.89674	0.2130728	0.23973869	2.5663189	21	10 8.8	19.7
540123 2017 PP_{2}	16.7	X	292.93847	145.94673	159.62853	11.77321	0.0934608	0.18881975	3.0091080	21	4 28.1	21.0
540124 2017 PH_{3}	17.7	X	266.55681	154.73344	276.45715	2.44556	0.0359965	0.25128852	2.4870677	21	9 13.2	20.7
540125 2017 PR_{10}	18.1	X	261.38377	178.83736	310.28616	5.32438	0.1147025	0.28594064	2.2818414	21	11 18.8	20.7
540126 2017 PF_{15}	18.1	X	188.96504	141.04751	22.49493	2.85519	0.0987653	0.26325890	2.4110932	21	10 4.6	21.4
540127 2017 PH_{16}	17.4	X	301.83677	239.12523	125.76090	5.70479	0.1206672	0.22622452	2.6675317	21	7 20.7	20.6
540128 2017 PZ_{16}	16.6	X	99.75468	333.65703	160.94840	10.23101	0.0191048	0.17569185	3.1571967	21	5 9.7	21.2
540129 2017 PZ_{24}	14.9	X	134.85572	242.86765	257.66335	30.99940	0.0356592	0.16960172	3.2323314	21	6 25.5	19.7
540130 2017 PV_{27}	18.5	X	277.76735	351.45636	96.41527	4.92265	0.0831012	0.28593104	2.2818925	21	10 25.1	20.9
540131 2017 PA_{29}	18.1	X	273.08448	188.68943	275.95477	4.20490	0.0769050	0.28966969	2.2622157	21	11 8.9	20.6
540132 2017 PC_{29}	17.5	X	235.92310	162.00419	280.12505	6.08999	0.1262397	0.24087835	2.5582179	21	8 4.8	21.1
540133 2017 PL_{30}	16.4	X	240.89448	206.38912	148.16856	11.92706	0.0996389	0.18660176	3.0329056	21	4 28.7	21.2
540134 2017 PA_{31}	18.2	X	48.43902	154.87740	183.73542	6.51782	0.1102312	0.29776559	2.2210229	21	12 21.6	21.1
540135 2017 PG_{31}	17.4	X	281.65663	265.02631	130.63141	5.26585	0.2247943	0.23882327	2.5728726	21	7 16.6	20.6
540136 2017 PJ_{31}	17.0	X	287.64534	179.49255	138.10979	0.40055	0.0648405	0.20910019	2.8112519	21	5 5.9	20.9
540137 2017 PL_{31}	17.8	X	134.89464	130.31232	94.82602	3.20562	0.1297326	0.29977705	2.2110766	21	11 1.4	21.1
540138 2017 PP_{31}	16.1	X	177.46206	127.40091	276.98766	9.56133	0.0315574	0.18321807	3.0701329	21	4 14.8	20.8
540139 2017 PZ_{31}	17.1	X	107.93500	169.97219	344.69221	6.09753	0.0906139	0.22273335	2.6953337	21	6 20.5	20.9
540140 2017 PP_{33}	17.0	X	246.31655	159.23943	238.87628	4.32252	0.0592368	0.22500335	2.6771748	21	6 28.6	20.7
540141 2017 PU_{37}	16.5	X	121.60599	177.37222	331.80023	7.49694	0.1499781	0.21673017	2.7448786	21	7 7.5	20.7
540142 2017 PL_{38}	16.0	X	105.39866	331.88052	141.69776	6.85263	0.1098527	0.17351397	3.1835604	21	5 2.9	20.6
540143 2017 PJ_{41}	16.1	X	319.52985	65.89344	251.70168	12.57614	0.1561372	0.21725955	2.7404179	21	6 7.0	19.1
540144 2017 QL_{1}	18.1	X	359.15347	14.33579	146.55443	23.19355	0.0393389	0.39158497	1.8503421	21	—	—
540145 2017 QG_{4}	17.6	X	163.35647	234.22576	281.75769	5.59516	0.0127751	0.25479189	2.4642172	21	8 23.5	21.0
540146 2017 QG_{5}	17.0	X	299.27328	78.14470	242.12681	2.72731	0.0890268	0.21158696	2.7891816	21	5 21.3	20.6
540147 2017 QL_{6}	16.9	X	298.03507	93.02128	231.16063	3.53649	0.0693358	0.21235665	2.7824379	21	5 27.9	20.4
540148 2017 QV_{6}	17.3	X	278.25029	86.76729	265.03526	3.02836	0.0903389	0.21355938	2.7719812	21	6 3.6	21.2
540149 2017 QK_{7}	18.7	X	336.37873	177.19594	238.34524	2.86270	0.0604628	0.29816597	2.2190342	21	12 16.1	20.8
540150 2017 QP_{7}	17.9	X	81.95999	11.55249	292.12241	5.93786	0.1207948	0.30114073	2.2043965	21	12 16.7	20.9
540151 2017 QU_{7}	16.8	X	47.06694	274.54637	305.15828	11.01044	0.1362196	0.22515120	2.6760027	21	7 1.3	19.9
540152 2017 QO_{8}	18.2	X	47.08740	157.46982	170.93971	3.59740	0.0699520	0.28963935	2.2623737	21	11 28.9	20.9
540153 2017 QN_{9}	16.9	X	281.87985	117.53853	195.83851	1.30111	0.0912797	0.19147609	2.9812131	21	4 20.8	21.1
540154 2017 QY_{13}	17.0	X	276.42535	178.51350	182.03195	5.00813	0.1714455	0.21605327	2.7506087	21	6 1.7	20.9
540155 2017 QG_{14}	16.5	X	210.41735	48.22440	294.83471	7.03270	0.1200400	0.16073283	3.3501660	21	3 10.2	21.9
540156 2017 QB_{15}	16.8	X	200.75790	282.65871	138.51074	5.31862	0.0535473	0.20932664	2.8092241	21	6 5.7	20.9
540157 2017 QO_{18}	17.7	X	150.33855	268.26600	285.00074	5.31155	0.1161662	0.28015827	2.3131320	21	9 29.9	21.2
540158 2017 QR_{18}	16.6	X	156.35484	205.90631	217.83003	2.83206	0.0530467	0.18168060	3.0874293	21	4 19.8	21.1
540159 2017 QZ_{18}	16.0	X	279.94965	132.77420	150.18954	11.92302	0.1157030	0.17775112	3.1327649	21	3 11.8	20.6
540160 2017 QV_{19}	16.7	X	125.16193	234.44638	248.36148	4.85447	0.0362345	0.20257677	2.8712849	21	5 24.3	20.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
540161 2017 QD_{23}	18.3	X	300.31071	150.26051	287.04606	5.29171	0.0918401	0.28465896	2.2886856	21	11 11.1	20.7
540162 2017 QE_{23}	17.5	X	229.31002	281.77354	164.41304	7.07570	0.1487415	0.23706100	2.5856077	21	7 31.6	21.5
540163 2017 QG_{24}	17.3	X	321.13586	7.47972	328.34514	13.38901	0.2103465	0.22574060	2.6713426	21	6 30.2	20.3
540164 2017 QK_{24}	17.5	X	284.99373	308.07369	93.95506	4.16004	0.1380603	0.23210136	2.6223114	21	8 15.1	20.6
540165 2017 QL_{24}	17.6	X	320.15331	41.55488	9.39600	4.70399	0.0500633	0.26860254	2.3790084	21	11 4.9	20.2
540166 2017 QH_{27}	16.6	X	158.59126	134.21440	295.17356	8.75233	0.0585650	0.18204003	3.0833639	21	4 26.3	21.3
540167 2017 QL_{28}	17.7	X	233.17256	211.47623	241.60425	4.89192	0.1188746	0.24391070	2.5369709	21	8 16.5	21.3
540168 2017 QD_{30}	16.8	X	207.32581	113.09328	283.29627	11.34632	0.0203298	0.18848318	3.0126891	21	5 11.8	21.3
540169 2017 QG_{30}	16.7	X	141.53272	250.25950	283.74800	11.98072	0.1569610	0.24240639	2.5474559	21	8 23.4	21.0
540170 2017 QM_{30}	17.7	X	253.66869	206.44463	253.89252	6.43762	0.0718126	0.26328696	2.4109220	21	9 29.3	20.9
540171 2017 QR_{30}	17.1	X	233.60234	273.19057	186.88995	12.41599	0.2306341	0.23368709	2.6104351	21	8 13.1	21.5
540172 2017 QG_{32}	16.2	X	279.28530	11.82983	278.83652	8.01853	0.0542330	0.17789870	3.1310322	21	3 22.5	20.8
540173 2017 QJ_{35}	17.6	X	301.27167	68.67289	303.27320	7.97910	0.3546497	0.22245901	2.6975492	21	6 20.4	21.0
540174 2017 QT_{38}	17.7	X	133.18223	10.03020	173.77269	6.62954	0.0711273	0.25846848	2.4407932	21	8 27.6	21.0
540175 2017 QO_{39}	17.4	X	202.56832	137.01884	289.84110	5.66825	0.1003424	0.21236907	2.7823294	21	6 12.5	21.7
540176 2017 QF_{40}	16.1	X	218.13573	254.25633	118.80612	11.52967	0.1129045	0.18883763	3.0089180	21	4 27.9	21.0
540177 2017 QG_{40}	16.8	X	80.80420	299.35577	299.69861	10.55670	0.2292885	0.26795972	2.3828116	21	9 23.5	20.4
540178 2017 QB_{41}	17.5	X	60.46438	72.73385	263.66846	4.49152	0.0195674	0.29678457	2.2259146	21	12 21.1	20.2
540179 2017 QC_{42}	16.5	X	145.73304	133.24065	308.08668	4.45206	0.0359132	0.18752848	3.0229054	21	4 25.5	21.0
540180 2017 QA_{51}	16.7	X	190.04870	357.86996	134.96875	16.08835	0.1103150	0.24640247	2.5198383	21	8 25.7	20.4
540181 2017 QF_{51}	17.3	X	328.89068	350.02559	337.46426	9.96801	0.1261700	0.23012747	2.6372850	21	7 14.7	20.4
540182 2017 QC_{52}	17.0	X	257.27483	276.39572	113.72326	1.64111	0.0830043	0.21482686	2.7610673	21	6 28.9	20.8
540183 2017 QX_{52}	17.3	X	262.04860	91.06946	336.20818	12.11336	0.2661090	0.22851924	2.6496441	21	8 1.1	21.3
540184 2017 QH_{54}	16.8	X	321.75175	342.36415	32.54341	7.82061	0.0978949	0.25360046	2.4719292	21	9 16.5	19.4
540185 2017 QO_{54}	18.5	X	110.37290	44.22308	329.23017	16.95137	0.1591330	0.35396495	1.9792282	21	—	—
540186 2017 QY_{54}	16.6	X	321.46204	122.09602	174.06690	6.43013	0.0295043	0.20157073	2.8808307	21	5 30.3	20.5
540187 2017 QH_{55}	16.3	X	359.58676	339.35936	338.77675	12.83865	0.1717489	0.25396428	2.4695678	21	9 1.2	18.4
540188 2017 QS_{55}	16.6	X	290.67983	261.73139	79.89056	5.40157	0.0764672	0.21191067	2.7863404	21	6 9.1	20.2
540189 2017 QR_{57}	16.3	X	257.53280	329.73424	19.24189	9.05791	0.1107849	0.18255600	3.0775514	21	5 3.1	21.0
540190 2017 QW_{57}	17.6	X	247.79632	73.51700	357.28873	8.88786	0.0380343	0.22981040	2.6397103	21	8 20.1	21.2
540191 2017 QX_{57}	17.0	X	351.64036	176.12855	159.43527	13.39996	0.0644870	0.24072112	2.5593318	21	9 6.4	19.8
540192 2017 QX_{58}	16.8	X	11.80092	282.34938	7.91687	11.38395	0.1968115	0.23354155	2.6115195	21	8 20.7	19.3
540193 2017 QT_{60}	17.0	X	301.26556	114.72679	234.86615	3.34235	0.2232501	0.21989704	2.7184611	21	6 11.4	20.4
540194 2017 QU_{60}	17.6	X	74.18834	28.37201	256.45712	3.49433	0.1313250	0.27942281	2.3171891	21	11 10.1	20.8
540195 2017 QZ_{63}	16.0	X	12.94816	311.30610	256.14031	5.46733	0.0393492	0.18138871	3.0907406	21	4 13.8	20.2
540196 2017 QM_{64}	16.2	X	251.80116	136.97049	182.23170	20.09941	0.1184868	0.17105579	3.2139876	21	3 24.1	21.1
540197 2017 QF_{65}	16.2	X	312.83657	343.22964	300.26340	8.70588	0.0347170	0.18658854	3.0330488	21	4 27.5	20.5
540198 2017 QC_{67}	17.7	X	20.13579	40.42212	335.27058	24.50308	0.1832496	0.28768274	2.2726201	21	—	—
540199 2017 QQ_{67}	16.7	X	259.22175	106.88418	296.38147	13.25316	0.0372265	0.21607418	2.7504313	21	7 25.1	20.3
540200 2017 RC_4	16.2	X	171.38847	130.71024	279.99614	8.20445	0.1291986	0.17442370	3.1724812	21	4 21.4	21.4
540201 2017 RW_9	16.5	X	295.22719	166.57769	163.43978	6.33073	0.0705172	0.19769385	2.9183717	21	6 2.4	20.5
540202 2017 RM_{11}	17.3	X	262.28051	4.29258	31.68897	4.48649	0.0784485	0.21403450	2.7678775	21	7 14.8	21.2
540203 2017 RN_{13}	18.3	X	69.36090	325.27634	330.43817	6.49688	0.1085215	0.27199123	2.3592074	21	11 12.8	21.5
540204 2017 RD_{17}	18.8	X	311.64341	76.24490	43.46751	4.74125	0.0751767	0.30946821	2.1646716	21	—	—
540205 2017 RS_{17}	14.5	X	73.87809	295.91827	135.85650	42.69485	0.4478814	0.06421034	6.1763616	21	4 9.3	22.7
540206 2017 RM_{18}	16.4	X	347.69050	322.77961	46.34382	10.49563	0.2588325	0.25636843	2.4541043	21	11 4.9	17.7
540207 2017 RP_{18}	17.1	X	330.70670	114.16806	250.52425	10.94058	0.0150077	0.24652129	2.5190286	21	9 9.9	20.6
540208 2017 RW_{18}	16.8	X	321.18483	34.06712	241.86520	9.22502	0.1498867	0.18901893	3.0069937	21	4 14.5	20.8
540209 2017 RZ_{18}	17.1	X	245.50724	124.25926	290.64795	8.46503	0.0839718	0.21628203	2.7486689	21	7 16.9	20.8
540210 2017 RJ_{19}	17.3	X	298.01618	82.71827	308.52233	13.85290	0.1021834	0.23620492	2.5918513	21	8 21.2	20.5
540211 2017 RL_{20}	16.0	X	75.43781	247.27619	301.58772	8.73192	0.0248679	0.19330669	2.9623620	21	6 14.2	20.2
540212 2017 RT_{20}	18.1	X	297.70869	196.97678	268.62681	5.80678	0.1093370	0.28479409	2.2879616	21	12 19.3	20.2
540213 2017 RU_{20}	17.2	X	160.67588	330.01316	264.15193	6.66483	0.1154604	0.29527769	2.2334812	21	12 7.7	20.3
540214 2017 RX_{20}	17.5	X	193.34947	258.19266	270.97779	4.52141	0.0643709	0.26212783	2.4180241	21	10 17.2	20.9
540215 2017 RY_{20}	17.9	X	246.35188	223.08305	299.73329	5.02043	0.0928733	0.29406197	2.2396327	21	12 20.9	20.4
540216 2017 RA_{21}	17.9	X	90.99191	346.70959	305.99323	6.66434	0.1456646	0.28815525	2.2701350	21	12 11.6	21.3
540217 2017 RE_{21}	17.1	X	284.63290	80.40341	327.93956	14.31625	0.2057014	0.22924281	2.6440656	21	8 12.2	20.4
540218 2017 RJ_{21}	17.2	X	252.33321	153.42364	271.44111	8.20039	0.1128956	0.22515321	2.6759868	21	8 1.8	21.1
540219 2017 RN_{21}	17.6	X	311.90006	143.32790	224.72019	6.69246	0.1068293	0.23166590	2.6255964	21	8 10.3	20.8
540220 2017 RP_{21}	16.2	X	57.39040	300.76769	251.78058	9.79748	0.0487808	0.18276182	3.0752404	21	5 29.1	20.2
540221 2017 RS_{21}	18.0	X	231.36004	255.91295	233.43247	3.74810	0.1360005	0.25709061	2.4495064	21	10 1.5	21.5
540222 2017 RT_{21}	16.6	X	315.67840	69.27922	204.96348	8.46167	0.0925844	0.18731538	3.0251977	21	4 15.2	20.7
540223 2017 RW_{21}	17.1	X	66.00144	39.54065	210.16000	5.20443	0.0561705	0.24618039	2.5213536	21	8 26.9	20.3
540224 2017 RX_{21}	16.2	X	297.98967	345.06303	314.47778	9.27983	0.0759919	0.18939796	3.0029806	21	4 21.4	20.5
540225 2017 RE_{22}	15.8	X	241.58935	33.18205	325.22190	15.46451	0.1073116	0.18319950	3.0703404	21	4 22.1	20.8
540226 2017 RQ_{22}	17.3	X	318.01440	13.75364	328.49426	8.86514	0.1751689	0.22727193	2.6593297	21	7 8.9	20.2
540227 2017 RW_{22}	17.8	X	355.46370	78.44433	324.84001	6.78694	0.1495974	0.28640531	2.2793727	21	—	—
540228 2017 RX_{22}	17.8	X	311.03938	90.52292	304.47109	5.60808	0.0786083	0.25327779	2.4740282	21	9 22.3	20.8
540229 2017 RN_{23}	17.2	X	279.98259	38.76189	329.47003	7.45492	0.1794103	0.21284401	2.7781888	21	6 14.3	21.2
540230 2017 RR_{23}	15.1	X	248.83429	352.03322	335.71984	18.60464	0.1162825	0.16956205	3.2328355	21	3 24.5	20.3
540231 2017 RS_{23}	16.9	X	299.79715	23.18237	322.00635	4.92136	0.0779892	0.21406887	2.7675812	21	6 26.9	20.4
540232 2017 RT_{23}	17.7	X	327.31950	225.88499	176.89414	6.50050	0.1048609	0.27077794	2.3662494	21	11 8.5	20.0
540233 2017 RW_{23}	17.2	X	331.97172	348.02309	41.10800	12.31520	0.1425325	0.25272965	2.4776041	21	10 23.8	19.4
540234 2017 RQ_{24}	17.0	X	267.29005	189.55783	204.37919	13.71769	0.2019215	0.21633607	2.7482111	21	6 28.3	21.3
540235 2017 RU_{24}	17.0	X	277.45491	162.89190	214.21012	12.06944	0.1808505	0.21552544	2.7550979	21	6 22.0	21.0
540236 2017 RV_{24}	17.1	X	347.38771	75.62657	249.33516	7.46575	0.0843246	0.23671964	2.5880929	21	8 10.5	20.2
540237 2017 RV_{25}	17.1	X	250.56787	118.60490	290.42815	4.94084	0.0456806	0.22005477	2.7171620	21	7 20.8	20.8
540238 2017 RD_{26}	18.1	X	274.07368	216.44670	239.98405	4.50337	0.1047628	0.26579334	2.3957416	21	10 21.1	20.9
540239 2017 RM_{26}	16.5	X	55.02038	356.47317	222.50859	8.38905	0.0761168	0.21028807	2.8006551	21	7 1.9	20.2
540240 2017 RF_{27}	16.9	X	243.89048	130.27035	290.81157	4.07522	0.0989702	0.21998040	2.7177743	21	7 21.3	20.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
540241 2017 RL_{27}	18.0	X	200.24600	288.32161	247.98828	4.76443	0.1053410	0.27969257	2.3156990	21	11 3.3	21.1
540242 2017 RG_{28}	17.0	X	287.97732	101.30691	293.15988	11.59006	0.2803433	0.22249861	2.6972292	21	7 14.8	20.6
540243 2017 RL_{28}	16.1	X	261.35450	21.58516	29.71472	13.92949	0.2267649	0.21751413	2.7382792	21	7 15.2	20.4
540244 2017 RP_{28}	16.9	X	231.38493	222.98662	164.75280	10.58935	0.1384559	0.20347007	2.8628748	21	5 24.1	21.5
540245 2017 RS_{28}	16.9	X	266.88356	43.82366	342.93355	14.39499	0.2736911	0.21040949	2.7995775	21	6 9.9	21.5
540246 2017 RX_{28}	17.6	X	308.17575	63.55797	353.20218	4.97403	0.1110488	0.26606544	2.3941080	21	10 19.9	20.1
540247 2017 RY_{28}	15.9	X	268.12963	160.77115	162.98318	12.01152	0.0580018	0.18107405	3.0943201	21	4 25.8	20.5
540248 2017 RA_{29}	16.8	X	66.16942	51.25942	158.11683	3.97911	0.0343246	0.21259343	2.7803714	21	6 29.8	20.5
540249 2017 RE_{29}	17.6	X	264.13416	61.41384	352.89719	9.00295	0.1491977	0.22935854	2.6431761	21	8 2.7	21.3
540250 2017 RG_{30}	17.0	X	281.54141	273.68683	106.83662	4.91299	0.1396077	0.22159208	2.7045804	21	7 9.3	20.5
540251 2017 RU_{30}	16.5	X	338.46596	231.73436	8.76445	9.29731	0.0321753	0.17483542	3.1674986	21	4 10.7	20.8
540252 2017 RM_{31}	17.9	X	355.22278	6.18758	11.68670	1.44533	0.1970858	0.27028319	2.3691362	21	12 1.9	20.0
540253 2017 RC_{32}	15.9	X	186.01159	252.03786	168.23426	10.91848	0.1010474	0.17858732	3.1229783	21	5 21.7	20.9
540254 2017 RH_{32}	17.3	X	314.59606	340.78582	1.98433	2.81199	0.0919043	0.22301748	2.6930440	21	7 14.7	20.6
540255 2017 RL_{32}	15.4	X	202.68555	136.29763	173.79208	5.63801	0.1871016	0.12713464	3.9170591	21	1 31.2	21.8
540256 2017 RZ_{32}	17.6	X	276.57336	65.03037	345.92209	4.51971	0.1724846	0.23115686	2.6294497	21	8 9.3	21.0
540257 2017 RO_{35}	16.7	X	157.98714	354.67903	87.42928	2.35684	0.0383322	0.17768923	3.1334924	21	5 14.3	21.3
540258 2017 RT_{37}	17.7	X	237.39022	275.90544	162.88380	8.55378	0.2574326	0.21267217	2.7796851	21	7 19.5	22.4
540259 2017 RN_{38}	17.4	X	309.31850	205.34337	230.96723	1.27292	0.0529351	0.28028371	2.3124418	21	11 27.8	19.8
540260 2017 RD_{39}	17.5	X	271.16688	54.39463	344.31105	1.05037	0.0616284	0.22607719	2.6686905	21	8 1.6	21.0
540261 2017 RL_{41}	16.9	X	266.03262	162.40103	176.18760	11.51129	0.1097672	0.18544034	3.0455559	21	5 4.1	21.5
540262 2017 RH_{42}	17.4	X	266.07102	131.23465	269.23262	2.64052	0.1045406	0.22064690	2.7122986	21	7 20.6	21.1
540263 2017 RB_{43}	17.4	X	184.53149	137.76715	310.62417	3.04317	0.1594002	0.18939254	3.0030379	21	6 21.3	22.3
540264 2017 RO_{43}	18.0	X	208.33053	218.38868	334.34978	5.81470	0.0847262	0.29727272	2.2234772	21	12 10.9	20.9
540265 2017 RO_{47}	16.2	X	57.42691	2.03912	172.90074	18.27773	0.1676602	0.17405569	3.1769513	21	5 25.8	20.5
540266 2017 RJ_{49}	17.3	X	268.29448	233.59732	170.28862	5.33510	0.0635968	0.22565065	2.6720525	21	8 3.0	21.0
540267 2017 RM_{49}	17.0	X	250.15677	261.78269	168.00457	13.22377	0.2018995	0.21952130	2.7215622	21	7 25.6	21.2
540268 2017 RU_{49}	17.9	X	202.96122	104.49081	10.72698	1.78296	0.1744356	0.22029421	2.7151927	21	8 10.8	22.3
540269 2017 RS_{51}	16.6	X	250.77126	25.01063	5.93418	6.57914	0.0866969	0.20375886	2.8601691	21	6 21.6	20.8
540270 2017 RR_{52}	17.0	X	302.95938	251.54193	113.15945	2.30086	0.0679850	0.22494272	2.6776558	21	7 30.3	20.3
540271 2017 RE_{54}	18.4	X	280.77705	257.40961	191.87899	1.75019	0.1003254	0.26244534	2.4160735	21	10 23.1	20.8
540272 2017 RF_{54}	17.6	X	237.67848	258.57181	171.27653	2.92747	0.0753263	0.21953808	2.7214235	21	7 27.9	21.4
540273 2017 RM_{55}	16.3	X	339.95209	81.19582	157.19315	0.78296	0.0896701	0.16789335	3.2542211	21	4 7.0	20.3
540274 2017 RA_{56}	16.7	X	119.20601	346.52496	150.88121	1.56359	0.1379638	0.18081379	3.0972887	21	6 17.9	21.3
540275 2017 RD_{57}	17.5	X	261.44841	31.92425	9.46526	3.40070	0.0900676	0.21517107	2.7581220	21	7 19.2	21.3
540276 2017 RK_{57}	17.4	X	308.54621	316.67726	39.87585	1.84772	0.0676638	0.22190646	2.7020254	21	7 27.8	20.6
540277 2017 RR_{57}	17.2	X	218.23052	285.98930	166.89013	8.58676	0.1779019	0.21080403	2.7960833	21	7 25.7	21.7
540278 2017 RW_{57}	17.8	X	257.88823	240.42440	169.19088	5.07148	0.1099628	0.21627735	2.7487085	21	7 20.9	21.7
540279 2017 RS_{60}	17.1	X	226.85843	30.66045	31.44431	2.28520	0.0619484	0.20588613	2.8404337	21	7 6.8	21.1
540280 2017 RG_{61}	16.5	X	257.12574	234.48998	161.44218	5.44398	0.0799694	0.21045308	2.7991910	21	7 6.4	20.4
540281 2017 RN_{61}	17.2	X	318.44382	324.10495	24.23802	2.97738	0.1187186	0.22559545	2.6724884	21	7 26.1	20.1
540282 2017 RY_{61}	17.1	X	270.43276	31.20502	9.18852	4.77005	0.1166145	0.22061488	2.7125610	21	7 26.4	20.7
540283 2017 RU_{64}	15.9	X	245.58774	240.89993	114.62280	3.87743	0.0793659	0.17645499	3.1480872	21	5 5.1	20.6
540284 2017 RO_{65}	18.4	X	188.19231	126.42739	92.54993	3.66051	0.1217210	0.30473589	2.1870245	21	12 19.1	21.3
540285 2017 RA_{66}	16.5	X	199.72861	70.84886	26.69690	6.04585	0.1390077	0.20556979	2.8433469	21	7 18.7	21.1
540286 2017 RA_{67}	18.7	X	258.75671	357.99607	146.88803	5.56988	0.1036750	0.29086028	2.2560381	21	12 12.5	21.1
540287 2017 RV_{67}	18.0	X	242.59101	145.90210	16.95785	8.96081	0.1401642	0.29413569	2.2392585	21	12 5.7	20.6
540288 2017 RQ_{69}	17.0	X	7.65788	184.22031	154.79600	2.93952	0.2060140	0.25697713	2.4502274	21	10 28.3	19.1
540289 2017 RH_{70}	16.3	X	218.92385	88.75230	353.01341	13.66538	0.0217846	0.22054107	2.7131662	21	7 31.7	20.2
540290 2017 RT_{70}	18.5	X	349.86221	270.11040	133.84618	2.02547	0.1358931	0.28077105	2.3097652	21	12 25.5	20.6
540291 2017 RC_{71}	17.8	X	247.68026	306.60556	176.47488	7.52663	0.1102024	0.26400822	2.4065289	21	10 21.5	20.9
540292 2017 RK_{71}	17.4	X	174.24247	213.81456	354.57010	6.88431	0.0581684	0.28251604	2.3002444	21	11 18.6	20.6
540293 2017 RA_{72}	17.3	X	234.30495	101.93952	5.85546	6.40151	0.2255849	0.22922279	2.6442196	21	8 28.6	21.4
540294 2017 RM_{72}	17.1	X	295.62604	145.92579	235.22088	5.27720	0.1635124	0.22519208	2.6756788	21	7 25.4	20.3
540295 2017 RQ_{72}	18.2	X	306.50767	230.79887	158.81932	3.87877	0.1018739	0.24102885	2.5571529	21	9 6.1	20.9
540296 2017 RF_{73}	17.3	X	228.96683	309.05366	139.08371	4.19646	0.0731590	0.22488181	2.6781393	21	8 11.6	21.1
540297 2017 RK_{74}	17.4	X	172.56992	318.24677	143.48794	2.11975	0.1671466	0.18655864	3.0333729	21	6 26.9	22.3
540298 2017 RR_{74}	17.1	X	306.78996	331.55994	43.27171	15.08115	0.1812271	0.22984099	2.6394761	21	8 10.5	20.4
540299 2017 RT_{74}	16.5	X	326.80942	230.14870	99.00478	9.06008	0.2286250	0.21567649	2.7538113	21	6 26.7	19.0
540300 2017 RK_{75}	16.2	X	145.15649	342.78078	98.11066	11.79121	0.0199635	0.17622696	3.1508023	21	4 30.6	20.9
540301 2017 RL_{75}	16.4	X	7.40703	308.13505	12.66218	14.66042	0.1534975	0.25410408	2.4686620	21	9 23.6	18.7
540302 2017 RX_{75}	16.8	X	127.67224	14.28399	110.68858	3.92539	0.0406504	0.18972310	2.9995487	21	6 1.1	21.1
540303 2017 RH_{77}	16.6	X	298.14265	179.65730	104.24400	5.25549	0.0653321	0.17156054	3.2076806	21	4 12.4	21.1
540304 2017 RM_{77}	16.8	X	281.03089	258.80300	141.26918	11.79192	0.1359397	0.23041186	2.6351145	21	8 4.9	20.0
540305 2017 RJ_{78}	17.9	X	323.47129	271.35564	114.94454	4.77145	0.0727947	0.25377946	2.4707667	21	10 6.8	20.6
540306 2017 RU_{79}	16.9	X	298.20611	265.06640	101.84755	6.03612	0.0641475	0.22484198	2.6784556	21	7 27.2	20.2
540307 2017 RR_{81}	16.7	X	232.47347	36.11767	344.53435	5.86668	0.1715518	0.17946511	3.1127867	21	5 10.9	21.8
540308 2017 RZ_{81}	18.0	X	85.67214	340.80596	339.91961	3.20942	0.0573825	0.29793442	2.2201838	21	—	—
540309 2017 RL_{82}	16.4	X	195.87258	252.38497	194.84511	1.64724	0.0301753	0.20302420	2.8670648	21	7 3.9	20.5
540310 2017 RS_{82}	17.6	X	89.23758	275.63654	344.55061	5.81099	0.0998176	0.26094970	2.4252966	21	10 18.3	21.0
540311 2017 RA_{83}	17.4	X	3.20946	185.51434	186.50393	9.63607	0.0950339	0.26974136	2.3723077	21	11 25.4	20.1
540312 2017 RE_{83}	17.5	X	192.25169	354.69497	196.16699	5.23667	0.1573994	0.27950658	2.3167261	21	11 10.4	21.0
540313 2017 RH_{83}	17.7	X	312.78487	73.16263	345.54087	6.21211	0.0827148	0.26256712	2.4153263	21	10 31.2	20.4
540314 2017 RV_{83}	18.1	X	351.81261	56.61888	349.43643	6.70618	0.0680166	0.28327401	2.2961393	21	12 24.2	20.7
540315 2017 RH_{84}	17.2	X	340.27780	343.12392	341.79544	8.78513	0.0837533	0.22419666	2.6835928	21	8 3.4	20.4
540316 2017 RP_{85}	16.2	X	111.23867	179.37684	333.21960	8.65017	0.1564076	0.18395913	3.0618822	21	7 1.4	20.9
540317 2017 RY_{85}	17.1	X	238.58722	116.37801	335.21594	8.35489	0.2210450	0.21930300	2.7233680	21	8 11.6	21.4
540318 2017 RG_{88}	17.1	X	3.76077	316.19628	356.16884	4.86977	0.0165279	0.22543755	2.6737362	21	8 21.4	20.6
540319 2017 RH_{88}	17.4	X	277.10367	101.59195	4.62493	5.18594	0.1133564	0.26463525	2.4027261	21	11 6.8	20.1
540320 2017 RF_{90}	18.4	X	319.52812	16.66083	54.69599	1.97534	0.1630616	0.26673775	2.3900834	21	12 3.4	20.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
540321 2017 RL_{90}	16.8	X	163.57973	55.01192	78.50681	2.65474	0.0989098	0.20118966	2.8844672	21	7 27.2	21.1
540322 2017 RC_{91}	17.6	X	179.47829	328.90780	161.96402	5.66848	0.0990612	0.20989290	2.8041692	21	8 8.4	21.9
540323 2017 RJ_{91}	18.2	X	263.81813	324.10063	127.58740	2.71478	0.1622809	0.23981352	2.5657851	21	9 18.9	21.5
540324 2017 RB_{92}	17.2	X	135.63520	50.40183	155.82391	4.97798	0.0710498	0.24456496	2.5324443	21	9 30.4	20.8
540325 2017 RQ_{93}	16.8	X	293.94380	340.95257	5.58803	1.93586	0.0814386	0.20264902	2.8706024	21	6 19.7	20.6
540326 2017 RV_{95}	16.5	X	38.86338	240.39440	6.81219	11.35781	0.0551866	0.20964568	2.8063733	21	7 18.4	20.3
540327 2017 RZ_{95}	16.1	X	167.33005	286.78164	177.63611	8.95381	0.0813328	0.18796434	3.0182305	21	6 23.2	20.9
540328 2017 RZ_{96}	17.8	X	37.24393	276.01221	19.77014	1.69564	0.0470324	0.24234115	2.5479131	21	9 19.5	20.9
540329 2017 RD_{97}	17.5	X	240.68067	301.46871	168.03452	5.00774	0.2096137	0.23360465	2.6110492	21	9 6.1	21.3
540330 2017 RE_{98}	17.3	X	283.27681	32.73358	354.55164	6.90314	0.0743463	0.22126599	2.7072370	21	8 2.6	20.9
540331 2017 RH_{98}	18.1	X	14.40373	199.57694	186.96564	1.73198	0.1194342	0.28586737	2.2822313	21	—	—
540332 2017 RR_{98}	16.4	X	319.67125	228.04967	39.35491	0.54648	0.1225902	0.17413443	3.1759936	21	4 9.5	20.5
540333 2017 RW_{98}	17.1	X	318.36766	15.55017	354.80711	5.70420	0.0635134	0.23608072	2.5927603	21	9 2.4	20.2
540334 2017 RB_{99}	17.6	X	214.49983	150.21443	355.65067	6.58690	0.0706167	0.25648908	2.4533347	21	10 11.0	21.0
540335 2017 RT_{100}	17.5	X	26.69525	78.54164	239.92444	1.88258	0.1873097	0.25936201	2.4351841	21	10 28.5	20.1
540336 2017 RM_{103}	17.2	X	305.59309	99.46535	274.61630	7.45098	0.0939203	0.23053784	2.6341545	21	8 10.5	20.5
540337 2017 RO_{103}	17.4	X	290.31599	134.93678	266.30094	6.55788	0.1804701	0.23129925	2.6283704	21	8 11.1	20.7
540338 2017 RY_{104}	16.8	X	303.34227	67.33282	223.91378	9.65783	0.1347533	0.18469000	3.0537991	21	4 12.9	21.0
540339 2017 RO_{105}	17.6	X	252.54112	227.78433	218.85434	13.60217	0.1559951	0.23610462	2.5925854	21	8 22.6	21.6
540340 2017 RQ_{106}	16.6	X	198.96614	106.87243	320.76325	12.02586	0.2037528	0.17919286	3.1159388	21	6 7.4	22.0
540341 2017 RA_{107}	15.9	X	334.91019	317.57005	310.93149	10.35377	0.0290299	0.17887084	3.1196773	21	5 9.2	20.3
540342 2017 RJ_{109}	16.4	X	1.29029	278.02291	317.49225	9.13436	0.0389095	0.18757287	3.0224285	21	5 1.1	20.6
540343 2017 RT_{109}	17.0	X	303.40107	131.38078	171.79220	2.33386	0.1465193	0.19540889	2.9410777	21	4 27.5	20.8
540344 2017 RD_{110}	17.7	X	244.68176	113.45330	343.11046	16.51775	0.0839946	0.24140657	2.5544848	21	9 10.1	21.2
540345 2017 SU	17.0	X	307.23577	350.76789	28.26161	15.33874	0.0990835	0.22715015	2.6602801	21	8 30.8	20.5
540346 2017 SX	17.7	X	241.90097	52.16850	58.02858	7.05986	0.1921113	0.22984091	2.6394766	21	9 14.2	21.6
540347 2017 SC_{2}	17.9	X	192.61825	313.70381	19.83124	25.73261	0.0848749	0.38161659	1.8824259	21	1 10.9	20.8
540348 2017 SE_{3}	17.2	X	167.66359	115.90905	341.16463	15.66830	0.2269002	0.17372709	3.1809561	21	6 18.9	22.9
540349 2017 SQ_{4}	16.8	X	202.86903	3.77645	71.59864	11.48553	0.0908849	0.18880401	3.0092752	21	6 24.1	21.5
540350 2017 SM_{9}	16.6	X	257.20271	252.39006	168.81081	13.24710	0.1680703	0.22431244	2.6826693	21	7 26.7	20.6
540351 2017 SO_{9}	17.3	X	303.17558	8.43655	50.49108	5.81001	0.1452456	0.25168199	2.4844750	21	10 11.4	19.8
540352 2017 SB_{11}	18.0	X	73.44255	254.62148	202.54833	21.22185	0.1010599	0.37481436	1.9051327	21	—	—
540353 2017 SC_{13}	17.6	X	266.07448	310.38408	292.44735	18.88185	0.0629865	0.37462131	1.9057872	21	—	—
540354 2017 SX_{14}	18.9	X	226.13232	283.72417	5.93703	19.83079	0.0567190	0.37548436	1.9028657	21	—	—
540355 2017 SA_{22}	17.0	X	193.70325	213.53786	255.79867	6.14421	0.0757745	0.21479110	2.7613738	21	7 27.1	21.1
540356 2017 SB_{22}	16.4	X	287.73892	22.73720	312.24078	8.56017	0.0632254	0.19364311	2.9589299	21	5 28.6	20.6
540357 2017 SE_{22}	16.7	X	291.37471	80.76982	288.71161	8.00786	0.1739033	0.21051545	2.7986380	21	7 2.8	20.4
540358 2017 SJ_{24}	18.1	X	309.43697	91.22858	2.05833	8.62383	0.1683966	0.28136093	2.3065358	21	12 20.8	20.1
540359 2017 SQ_{25}	18.4	X	214.28685	126.32634	46.62246	4.17056	0.0831454	0.28169592	2.3047068	21	11 19.3	21.4
540360 2017 SM_{28}	17.7	X	199.81454	116.08989	57.52733	15.19924	0.0192843	0.25904299	2.4371831	21	11 8.4	20.9
540361 2017 SQ_{30}	16.7	X	97.57969	71.38590	201.42454	13.87045	0.0680215	0.24325068	2.5415579	21	11 11.1	20.3
540362 2017 ST_{30}	16.9	X	226.33494	9.13348	25.68821	11.25441	0.0703111	0.18656694	3.0332830	21	5 29.1	21.5
540363 2017 SU_{30}	16.9	X	216.49469	243.27659	173.79123	9.23566	0.1598326	0.18469861	3.0537041	21	6 12.7	22.0
540364 2017 SU_{31}	16.5	X	229.87125	338.27729	77.33442	3.15524	0.0932800	0.20122608	2.8841192	21	6 28.6	20.7
540365 2017 SA_{32}	17.0	X	247.41810	224.99737	146.74204	6.55042	0.2093083	0.18312835	3.0711356	21	5 14.7	22.1
540366 2017 SB_{32}	17.8	X	121.42311	130.26760	124.17642	2.61376	0.1539949	0.28103897	2.3082970	21	11 23.3	21.2
540367 2017 SL_{32}	17.3	X	279.53567	334.40207	33.13704	2.42107	0.0815666	0.20420397	2.8560113	21	6 28.2	21.1
540368 2017 SV_{35}	16.7	X	202.57882	16.89441	63.20214	11.22724	0.0842042	0.18287309	3.0739928	21	6 30.3	21.4
540369 2017 SD_{36}	16.7	X	38.98264	251.29592	42.57740	14.90013	0.1136767	0.23388154	2.6089880	21	10 4.3	20.1
540370 2017 SA_{37}	16.8	X	32.99685	352.80785	295.19219	11.40141	0.1720932	0.24057722	2.5603522	21	9 13.2	19.9
540371 2017 SD_{37}	17.1	X	331.38521	99.70209	252.53960	11.40764	0.1877701	0.23268989	2.6178879	21	8 12.1	19.9
540372 2017 SK_{38}	16.4	X	261.19497	42.67341	325.52099	11.54435	0.1161775	0.18862322	3.0111978	21	5 30.5	21.0
540373 2017 SL_{38}	16.1	X	320.03029	320.47603	335.27074	16.48792	0.0609628	0.18229118	3.0805312	21	5 18.5	20.6
540374 2017 SS_{38}	16.7	X	266.80101	123.14705	321.57419	12.42018	0.1292085	0.23837060	2.5761289	21	9 12.8	20.3
540375 2017 SV_{38}	18.0	X	14.54800	85.28611	311.42427	4.89986	0.2594349	0.28385496	2.2930053	21	—	—
540376 2017 SC_{40}	16.7	X	189.40988	155.51739	284.52375	4.36434	0.1169003	0.18633237	3.0358281	21	6 15.9	21.4
540377 2017 SB_{41}	17.4	X	296.48934	281.00315	109.53265	5.28184	0.1362519	0.22810591	2.6528439	21	8 16.8	20.4
540378 2017 SR_{41}	16.7	X	223.74312	254.04402	172.88934	14.47655	0.1183881	0.18786527	3.0192916	21	7 3.4	21.6
540379 2017 SK_{42}	17.3	X	314.78187	278.66276	119.74906	6.48251	0.0398873	0.23474294	2.6026016	21	10 10.0	20.6
540380 2017 SG_{43}	16.8	X	295.44398	113.57506	302.35206	10.50571	0.1248983	0.24469428	2.5315519	21	9 16.6	19.9
540381 2017 SJ_{43}	16.8	X	282.30918	92.05874	262.48259	3.56401	0.1258952	0.19735093	2.9217514	21	6 7.9	20.7
540382 2017 SN_{43}	16.9	X	24.94826	331.39234	325.75018	2.27766	0.2097859	0.23896867	2.5718289	21	9 24.2	19.4
540383 2017 SP_{43}	15.5	X	26.44604	232.98530	4.48823	14.91024	0.0110624	0.17861990	3.1225986	21	6 8.8	20.1
540384 2017 SG_{44}	15.9	X	256.95434	232.16117	106.86925	10.34850	0.0271832	0.18466341	3.0540923	21	5 5.9	20.4
540385 2017 SH_{44}	15.7	X	138.80407	355.21723	114.59036	11.39041	0.0590657	0.18972894	2.9994871	21	5 29.9	20.2
540386 2017 SP_{45}	16.4	X	290.91842	72.45974	290.55620	5.29763	0.0369901	0.21781051	2.7357946	21	7 14.5	20.1
540387 2017 ST_{45}	17.5	X	340.98845	175.01582	201.01910	6.33049	0.1005557	0.26050395	2.4280624	21	10 20.9	20.0
540388 2017 SW_{46}	16.8	X	271.81545	112.97444	276.91404	5.14882	0.0350465	0.22056135	2.7129999	21	7 24.4	20.5
540389 2017 SO_{47}	17.1	X	201.94448	139.41140	321.07784	11.99149	0.1206321	0.21179988	2.7873119	21	7 25.8	21.4
540390 2017 SC_{48}	17.9	X	277.94949	166.27324	261.38495	4.41024	0.1413415	0.24137265	2.5547241	21	9 5.8	21.1
540391 2017 SF_{48}	17.2	X	300.31445	50.56980	308.29584	5.67289	0.0084021	0.21870004	2.7283713	21	7 26.2	20.6
540392 2017 SK_{48}	15.9	X	138.00069	268.03774	194.82391	12.68725	0.1518343	0.16455261	3.2981180	21	5 28.5	21.2
540393 2017 SL_{48}	17.7	X	278.61743	143.17261	313.04556	5.38136	0.0965971	0.26524218	2.3990593	21	10 27.5	20.5
540394 2017 SX_{48}	17.2	X	268.22449	247.64422	186.46140	11.52341	0.2796468	0.22864777	2.6486510	21	8 9.6	21.2
540395 2017 SG_{49}	17.9	X	215.92256	211.22616	301.45664	2.69690	0.0445360	0.26785958	2.3834055	21	10 27.1	21.0
540396 2017 SU_{49}	17.4	X	294.99845	26.69551	327.67345	3.65977	0.0859823	0.21201492	2.7854269	21	7 1.4	21.0
540397 2017 ST_{50}	17.6	X	265.38911	113.30842	330.77439	7.00494	0.1733647	0.24003850	2.5641816	21	9 6.7	20.9
540398 2017 SD_{51}	16.7	X	209.31722	79.99691	330.32812	9.09285	0.1303379	0.18095652	3.0956598	21	5 27.7	21.7
540399 2017 SF_{51}	16.5	X	132.27021	232.97928	258.31635	2.89617	0.0621093	0.18838050	3.0137837	21	6 16.6	20.7
540400 2017 SR_{52}	17.5	X	24.94964	28.99949	340.01352	8.89156	0.1886795	0.28317885	2.2966536	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
540401 2017 SB_{53}	18.0	X	257.37133	239.82833	238.95416	4.41487	0.0600383	0.26875991	2.3780796	21	11 4.7	20.7
540402 2017 SD_{53}	17.9	X	51.67868	10.54659	325.77751	6.70229	0.1022001	0.28425248	2.2908670	21	12 18.7	20.9
540403 2017 SF_{53}	17.1	X	44.59694	107.82624	222.04323	4.78515	0.0447034	0.27323989	2.3520144	21	11 19.9	20.0
540404 2017 SJ_{53}	18.1	X	5.99936	52.51976	337.75173	9.97550	0.0799226	0.28363404	2.2941958	21	12 26.1	20.8
540405 2017 SQ_{53}	17.1	X	95.76531	320.91376	284.18763	4.46796	0.0239223	0.25018697	2.4943626	21	9 25.0	20.4
540406 2017 SD_{54}	17.1	X	295.34266	104.67092	278.19313	5.53001	0.1495835	0.22765190	2.6563698	21	7 30.4	20.3
540407 2017 SF_{54}	16.5	X	259.71791	356.94292	327.14304	4.93774	0.0260538	0.16710075	3.2645033	21	4 16.0	21.1
540408 2017 SV_{54}	18.1	X	237.97898	270.04553	345.37886	18.61960	0.0632157	0.36328749	1.9452216	21	—	—
540409 2017 SE_{55}	17.1	X	324.74230	271.27132	94.80981	5.45859	0.1294438	0.23478939	2.6022583	21	9 3.1	19.8
540410 2017 SJ_{55}	16.8	X	179.51856	43.83259	50.42320	9.43553	0.0972303	0.18427423	3.0583908	21	6 23.3	21.6
540411 2017 SN_{55}	17.0	X	262.18704	261.09486	160.30233	7.87904	0.2178339	0.21482093	2.7611181	21	7 26.6	21.0
540412 2017 ST_{55}	17.4	X	260.61403	42.98243	50.16296	8.68662	0.1396494	0.23912625	2.5706989	21	9 23.4	20.8
540413 2017 SU_{55}	17.5	X	276.59241	292.73930	143.38537	9.26384	0.1407916	0.23893415	2.5720766	21	9 20.5	20.7
540414 2017 SV_{55}	17.3	X	291.19956	311.24257	78.04512	6.82167	0.0397467	0.22453855	2.6808680	21	8 23.0	20.9
540415 2017 ST_{56}	17.2	X	41.61201	211.06346	96.30578	7.47811	0.1308288	0.25573319	2.4581666	21	10 29.7	20.3
540416 2017 SX_{57}	17.4	X	281.38077	340.00629	72.42495	5.22633	0.0571346	0.23097467	2.6308322	21	9 7.6	20.8
540417 2017 SM_{58}	17.6	X	108.25546	169.11723	99.18660	4.87875	0.0981188	0.27296106	2.3536159	21	11 23.9	20.8
540418 2017 SR_{58}	17.0	X	297.21162	262.10415	120.56141	5.88139	0.1333815	0.22085837	2.7105670	21	8 5.9	20.1
540419 2017 SR_{59}	16.6	X	295.63435	347.52849	38.75726	17.44825	0.0942402	0.22192773	2.7018527	21	8 24.4	20.4
540420 2017 SC_{60}	17.4	X	266.84206	313.46296	122.60108	7.48862	0.0931475	0.23011581	2.6373742	21	9 13.4	20.8
540421 2017 SK_{61}	17.9	X	176.58782	134.91617	98.29467	7.11069	0.0609116	0.29188046	2.2507782	21	12 28.1	20.8
540422 2017 SM_{61}	17.6	X	84.69163	203.06397	77.23191	8.40421	0.1392681	0.26776090	2.3839910	21	11 17.2	21.0
540423 2017 SO_{61}	16.2	X	227.05387	257.33165	135.50629	10.20192	0.1091698	0.17520054	3.1630964	21	5 29.4	21.2
540424 2017 SX_{61}	17.2	X	355.07322	244.48835	69.56205	8.79344	0.2309926	0.22923437	2.6441306	21	8 18.7	19.4
540425 2017 SZ_{62}	16.9	X	318.16834	157.32038	195.56491	4.36601	0.0845458	0.22580462	2.6708377	21	8 2.8	20.2
540426 2017 SE_{63}	16.6	X	289.50308	6.73832	351.29100	4.74512	0.0234129	0.20725089	2.8279504	21	7 8.6	20.4
540427 2017 SR_{63}	16.7	X	214.48099	74.69774	333.06113	9.86421	0.1645761	0.18612278	3.0381067	21	5 27.5	21.8
540428 2017 SK_{64}	16.4	X	182.10254	253.72096	169.25409	10.76781	0.0273848	0.18222834	3.0812394	21	5 19.9	21.0
540429 2017 SN_{64}	16.6	X	218.93186	48.03646	351.23023	8.31464	0.0439050	0.19097072	2.9864703	21	5 28.4	21.0
540430 2017 SP_{64}	17.4	X	225.35904	92.19934	350.78888	4.48475	0.0919817	0.22139530	2.7061827	21	7 30.6	21.3
540431 2017 SZ_{64}	17.4	X	248.52814	292.39156	112.45331	1.75215	0.2227862	0.20431541	2.8549727	21	6 21.7	21.9
540432 2017 SE_{66}	17.6	X	234.69721	268.36941	198.24396	4.45787	0.1504752	0.24034072	2.5620315	21	9 2.2	21.5
540433 2017 SL_{66}	18.4	X	285.48883	173.83258	312.19993	2.94875	0.1426870	0.29345378	2.2427262	21	12 27.3	20.2
540434 2017 SE_{69}	17.6	X	215.15438	82.97210	24.49200	5.24187	0.0669260	0.23080143	2.6321485	21	8 23.8	21.4
540435 2017 SR_{69}	15.7	X	159.42394	281.46272	95.68676	3.72397	0.0479614	0.12897511	3.8797057	21	3 6.1	21.4
540436 2017 SV_{69}	17.9	X	103.62059	234.41465	47.30596	3.92019	0.1564586	0.29312808	2.2443871	21	12 11.6	21.4
540437 2017 SC_{71}	17.2	X	248.15076	41.91677	23.79563	5.20619	0.1328287	0.21864737	2.7288094	21	7 30.2	21.2
540438 2017 SF_{71}	17.4	X	317.58885	321.38569	34.46728	3.22887	0.1142729	0.22845284	2.6501574	21	8 5.6	20.3
540439 2017 SG_{72}	18.5	X	270.97520	125.44457	355.75136	2.64519	0.0955043	0.27909316	2.3190134	21	11 25.0	20.9
540440 2017 SF_{73}	16.6	X	311.74689	125.39262	149.65009	1.67059	0.2088734	0.18236261	3.0797267	21	3 25.6	20.8
540441 2017 ST_{73}	15.9	X	129.91389	138.62410	344.55448	11.29642	0.1447272	0.17535310	3.1612615	21	6 11.3	21.0
540442 2017 SK_{74}	17.0	X	175.18686	107.66553	346.46414	9.52971	0.2090760	0.17933362	3.1143081	21	6 20.7	22.4
540443 2017 SG_{75}	17.9	X	91.31572	282.93734	347.29535	4.26643	0.0885110	0.27294295	2.3537200	21	11 3.9	21.0
540444 2017 SF_{76}	16.6	X	268.33124	340.40757	330.03127	3.49566	0.1385370	0.17053931	3.2204734	21	3 27.5	21.3
540445 2017 SW_{76}	17.2	X	278.01396	268.59419	127.66940	6.89168	0.0301062	0.22493264	2.6777358	21	8 12.9	20.8
540446 2017 SF_{77}	16.2	X	257.20780	230.75417	118.43791	12.70501	0.2669814	0.18139121	3.0907121	21	4 25.0	21.5
540447 2017 SH_{77}	16.2	X	264.94063	62.74564	275.82366	10.74116	0.2965472	0.18329670	3.0692549	21	4 5.9	21.6
540448 2017 SJ_{77}	16.9	X	336.86257	10.95825	314.19162	13.42977	0.2555054	0.22673651	2.6635146	21	7 12.8	19.2
540449 2017 SH_{78}	15.9	X	285.86383	316.14872	19.03117	10.85441	0.0261680	0.18242315	3.0790453	21	5 31.5	20.3
540450 2017 SV_{78}	16.7	X	332.98066	307.02061	26.44536	9.31169	0.0962624	0.22017036	2.7162108	21	8 3.9	20.0
540451 2017 SW_{78}	17.2	X	179.67478	349.89107	149.68838	5.37861	0.0508018	0.22089971	2.7102287	21	8 22.0	21.1
540452 2017 SO_{79}	16.9	X	153.62684	52.56601	76.52647	4.39495	0.0718169	0.19214873	2.9742516	21	7 9.3	21.3
540453 2017 SS_{79}	17.2	X	355.11776	263.10153	43.21854	5.73858	0.0512567	0.21501860	2.7594256	21	8 1.3	20.7
540454 2017 SF_{81}	18.7	X	28.39241	24.20960	30.41121	1.07733	0.1434890	0.30674666	2.1774565	21	—	—
540455 2017 SV_{81}	16.9	X	259.62565	157.62887	206.23434	1.65129	0.1429717	0.18335960	3.0685529	21	5 22.3	21.5
540456 2017 SE_{82}	17.0	X	325.84901	348.50801	10.50037	9.83402	0.1281256	0.22821443	2.6520028	21	8 26.6	19.9
540457 2017 SF_{82}	18.4	X	87.35143	168.79897	184.68686	2.25534	0.0366409	0.31208967	2.1525329	21	—	—
540458 2017 SJ_{82}	16.4	X	209.45054	302.78602	188.94803	21.61199	0.0532831	0.23303632	2.6152928	21	9 15.4	20.1
540459 2017 SN_{82}	17.1	X	266.49681	2.47638	25.85133	2.18827	0.0170800	0.20256314	2.8714137	21	7 18.8	21.0
540460 2017 SS_{82}	16.3	X	271.46770	345.32968	16.82799	16.35703	0.0891294	0.18957479	3.0011128	21	6 6.3	20.8
540461 2017 SY_{82}	18.3	X	109.68390	183.28588	147.47950	2.29348	0.1435455	0.31814541	2.1251305	21	—	—
540462 2017 SZ_{82}	18.6	X	15.36463	353.68397	49.12418	3.13982	0.1650745	0.28832867	2.2692246	21	—	—
540463 2017 SA_{83}	17.2	X	231.45285	299.83365	179.93330	12.98922	0.2132324	0.22591263	2.6699863	21	9 7.9	21.4
540464 2017 SD_{83}	16.9	X	246.11526	64.94211	18.32514	22.33744	0.0533204	0.22547034	2.6734769	21	9 9.4	20.9
540465 2017 SK_{83}	17.2	X	228.76655	349.15799	98.59701	4.07980	0.0891920	0.21215372	2.7842119	21	8 9.4	21.2
540466 2017 SW_{83}	17.0	X	301.34405	309.30008	53.24989	7.28005	0.0660561	0.21227401	2.7831600	21	7 26.6	20.6
540467 2017 SX_{83}	18.1	X	269.61553	9.98399	98.04916	3.76325	0.1434118	0.25309886	2.4751941	21	10 25.3	20.9
540468 2017 SH_{84}	16.7	X	264.02537	206.55001	183.27609	16.90491	0.1010642	0.19991715	2.8966944	21	7 3.2	21.2
540469 2017 SN_{84}	17.6	X	13.55162	216.08323	101.54570	3.74678	0.1486618	0.23949350	2.5680702	21	9 27.2	20.2
540470 2017 SV_{84}	16.8	X	225.44279	5.33025	47.48747	3.46403	0.2127099	0.18041954	3.1017992	21	6 11.6	22.0
540471 2017 SB_{85}	17.3	X	289.91422	289.47704	96.10289	4.53097	0.1032451	0.21556868	2.7547294	21	8 3.8	20.9
540472 2017 SC_{85}	16.9	X	17.12549	221.33629	64.96768	5.37786	0.0454229	0.21099205	2.7944220	21	8 6.5	20.5
540473 2017 SM_{85}	17.8	X	292.96808	294.84076	126.44970	6.05987	0.1281269	0.23895435	2.5719317	21	9 27.8	20.7
540474 2017 SV_{85}	16.9	X	305.50275	331.72796	57.54955	7.96974	0.1897275	0.22800839	2.6536002	21	8 25.3	19.9
540475 2017 SY_{85}	16.9	X	271.68205	10.34249	48.63880	9.99415	0.0640486	0.22330024	2.6907701	21	9 3.8	20.6
540476 2017 SA_{86}	17.2	X	354.91281	239.74521	70.97015	5.10988	0.0912346	0.21510203	2.7587120	21	8 6.9	20.4
540477 2017 SB_{86}	16.6	X	3.28174	276.93926	41.22564	10.07028	0.1261606	0.22906414	2.6454404	21	9 8.6	19.6
540478 2017 SG_{86}	16.0	X	208.96264	9.92142	42.22869	10.15411	0.1133356	0.17026521	3.2239288	21	5 31.1	21.1
540479 2017 SH_{86}	17.5	X	307.00368	280.13522	117.88201	4.28319	0.1598922	0.23303640	2.6152921	21	9 12.4	20.3
540480 2017 SK_{86}	18.1	X	102.33336	220.58833	84.22367	3.65489	0.1701769	0.29626075	2.2285376	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
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540481 2017 SR_{86}	17.6	X	17.84664	270.43156	78.16584	2.42857	0.2028481	0.26134559	2.4228467	21	11 29.3	20.2
540482 2017 SR_{87}	17.2	X	309.61988	206.12486	182.62900	3.08891	0.1905186	0.23212932	2.6221008	21	8 27.3	19.8
540483 2017 ST_{87}	16.9	X	282.25323	208.13881	162.56009	6.36793	0.0839848	0.20268175	2.8702934	21	7 5.1	20.8
540484 2017 SY_{87}	16.8	X	203.67599	63.94860	65.51362	4.76769	0.0292240	0.22660330	2.6645583	21	9 11.4	20.5
540485 2017 SZ_{87}	17.4	X	335.90876	314.67020	85.34091	3.60305	0.1940268	0.25600298	2.4564393	21	11 19.6	19.3
540486 2017 SF_{88}	17.1	X	202.72145	124.93756	17.64383	15.39538	0.1072829	0.23233825	2.6205286	21	9 22.7	21.1
540487 2017 SH_{88}	18.2	X	318.44992	56.25147	28.25001	9.37316	0.1687219	0.27182380	2.3601761	21	12 23.4	20.2
540488 2017 SU_{88}	16.7	X	264.46688	273.84488	190.73585	12.65089	0.1608866	0.23214686	2.6219687	21	10 5.5	19.9
540489 2017 SX_{88}	16.2	X	233.26602	74.27873	303.24212	24.54969	0.2872394	0.18246628	3.0785601	21	4 22.5	22.1
540490 2017 SS_{89}	16.9	X	250.07171	268.66025	171.71401	21.99095	0.0481535	0.22630586	2.6668926	21	8 30.1	20.6
540491 2017 SY_{89}	17.5	X	77.73946	164.37930	125.56072	8.06226	0.1806471	0.27292320	2.3538335	21	11 27.7	21.0
540492 2017 SP_{90}	17.3	X	251.87233	71.68368	13.79258	14.57335	0.2320912	0.22621336	2.6676195	21	8 21.8	21.5
540493 2017 SO_{91}	17.4	X	288.45505	328.61961	66.35878	2.75591	0.1022908	0.22927542	2.6438149	21	8 15.9	20.6
540494 2017 SW_{91}	17.4	X	37.53116	264.87240	28.41689	4.91360	0.2314448	0.25574887	2.4580662	21	10 17.5	20.1
540495 2017 SD_{92}	15.9	X	193.10668	47.39946	14.72481	6.37467	0.0700155	0.18050774	3.1007886	21	5 27.9	20.6
540496 2017 SM_{93}	17.3	X	276.95464	249.13136	162.52050	6.19001	0.1469898	0.22794543	2.6540889	21	8 12.8	20.8
540497 2017 SN_{93}	17.6	X	42.79743	273.43803	21.17973	4.35069	0.0502753	0.24721113	2.5143402	21	9 27.4	20.6
540498 2017 ST_{93}	17.2	X	193.86474	323.49432	147.06748	4.48970	0.0520502	0.21491833	2.7602838	21	7 31.1	21.2
540499 2017 SV_{93}	17.9	X	261.94124	273.56918	151.95186	4.44911	0.0616996	0.23118310	2.6292507	21	8 25.6	21.2
540500 2017 SC_{94}	17.3	X	284.69109	224.52087	147.32008	4.96250	0.0841721	0.21230570	2.7828830	21	7 10.1	21.0
540501 2017 SG_{94}	17.9	X	297.18341	351.07032	27.81919	5.42781	0.0591137	0.22607803	2.6686839	21	8 14.1	21.3
540502 2017 SN_{94}	17.1	X	259.66056	239.11361	166.41666	8.76429	0.2830313	0.20546813	2.8442847	21	6 26.7	21.7
540503 2017 ST_{95}	17.3	X	337.42837	192.31928	137.59195	6.08653	0.0737860	0.22359301	2.6884207	21	8 3.7	20.6
540504 2017 SU_{95}	16.9	X	227.74533	310.92987	128.37742	5.20626	0.0506918	0.21572443	2.7534033	21	7 31.6	20.8
540505 2017 SX_{95}	17.0	X	249.94218	13.98205	43.07612	6.40715	0.0351893	0.21916485	2.7245123	21	8 3.9	20.8
540506 2017 SD_{96}	17.3	X	244.34373	10.92391	59.46256	5.73312	0.1455400	0.21600133	2.7510497	21	7 30.1	21.4
540507 2017 SP_{96}	16.7	X	343.35256	229.06785	81.35790	5.52894	0.0547659	0.21379169	2.7699727	21	7 18.1	20.1
540508 2017 ST_{96}	17.1	X	208.63605	282.76131	134.62940	6.13326	0.1869845	0.17813635	3.1282469	21	6 5.3	22.3
540509 2017 SV_{96}	17.2	X	267.99597	53.92239	25.86711	12.16089	0.1490816	0.23733455	2.5836206	21	9 14.4	20.6
540510 2017 SE_{97}	16.9	X	285.03911	226.50083	147.10234	4.92223	0.0872751	0.21255942	2.7806680	21	7 12.5	20.6
540511 2017 SJ_{97}	16.2	X	188.72744	353.58751	102.71715	3.47635	0.0559902	0.19921010	2.9035444	21	7 6.6	20.3
540512 2017 ST_{97}	17.0	X	251.16768	313.36833	85.61552	3.27348	0.0739704	0.20316123	2.8657754	21	7 4.4	21.2
540513 2017 SG_{98}	16.8	X	118.80118	158.98474	51.63490	5.39979	0.1095616	0.23782903	2.5800382	21	9 20.7	20.6
540514 2017 SK_{98}	18.2	X	258.52876	63.49773	80.01683	4.84293	0.1103767	0.28016745	2.3130815	21	12 5.9	20.6
540515 2017 SN_{98}	17.0	X	228.29137	30.51119	67.70359	4.45627	0.1606761	0.21708567	2.7418810	21	8 16.2	21.2
540516 2017 SB_{99}	17.5	X	268.81148	289.32426	112.51379	5.49095	0.0826615	0.21669859	2.7451452	21	7 30.1	21.1
540517 2017 SR_{99}	17.1	X	314.33539	272.79277	116.60000	5.98055	0.1557383	0.23968798	2.5666809	21	9 16.0	19.7
540518 2017 SM_{100}	17.2	X	340.18160	235.54873	106.72141	4.20119	0.0674712	0.23235573	2.6203972	21	8 28.6	20.2
540519 2017 SH_{101}	16.1	X	211.43954	284.20137	140.00468	16.89811	0.2399557	0.18022252	3.1040593	21	6 14.9	21.7
540520 2017 SD_{102}	16.7	X	223.28698	251.80426	176.11850	16.06482	0.2883214	0.18899181	3.0072813	21	6 23.8	22.3
540521 2017 SF_{102}	16.4	X	109.83296	338.48877	173.46948	10.29421	0.0491169	0.18469968	3.0536924	21	6 15.1	20.9
540522 2017 SN_{102}	18.0	X	322.35449	72.65636	358.08354	2.00998	0.1793724	0.26568121	2.3964157	21	12 8.4	19.8
540523 2017 SS_{102}	16.5	X	289.45544	129.74660	229.93596	10.60723	0.1327940	0.20381029	2.8596879	21	6 22.4	20.4
540524 2017 ST_{102}	17.5	X	138.15291	10.93443	255.73960	6.53389	0.1696261	0.30071433	2.2064799	21	12 25.9	20.8
540525 2017 SZ_{102}	15.9	X	292.36760	351.88071	303.91264	10.30612	0.1385419	0.17800631	3.1297702	21	3 31.6	20.6
540526 2017 SB_{103}	17.7	X	290.31931	50.18052	17.53806	6.80220	0.1551791	0.24013783	2.5634745	21	9 26.9	20.5
540527 2017 SD_{103}	16.7	X	300.81701	73.22188	291.07869	11.32499	0.2040748	0.22013755	2.7164808	21	7 5.1	19.8
540528 2017 SJ_{103}	16.8	X	241.99338	132.24453	316.50968	13.84978	0.0492813	0.23224266	2.6212476	21	8 28.9	20.4
540529 2017 ST_{103}	16.9	X	280.15054	47.09051	343.04078	5.99930	0.0619015	0.21258947	2.7804060	21	8 2.9	20.7
540530 2017 SU_{104}	17.1	X	338.35064	327.58691	10.11673	5.57534	0.1586084	0.22522047	2.6754540	21	8 14.9	19.7
540531 2017 SF_{105}	15.5	X	259.72689	334.28893	17.12506	26.91177	0.1341383	0.17418481	3.1753811	21	4 29.6	20.5
540532 2017 SG_{105}	17.5	X	130.38578	251.53655	16.14334	9.45246	0.0980209	0.28696459	2.2764101	21	12 17.4	20.9
540533 2017 SO_{105}	16.6	X	314.84758	295.86398	89.04321	12.59792	0.1822627	0.22093751	2.7099196	21	9 8.6	19.7
540534 2017 SK_{106}	16.2	X	212.84426	83.34510	349.41393	8.29065	0.1046143	0.18623547	3.0368811	21	7 2.0	21.0
540535 2017 SN_{106}	16.9	X	315.81761	228.18168	130.48346	12.31878	0.2050127	0.23108391	2.6300030	21	7 22.8	19.7
540536 2017 SO_{106}	17.7	X	320.09694	59.41029	346.49703	13.70804	0.1151264	0.24803355	2.5087791	21	10 17.1	20.5
540537 2017 SW_{106}	16.2	X	305.85902	37.52429	254.94725	8.29697	0.0417248	0.17424945	3.1745958	21	5 2.1	20.7
540538 2017 SX_{106}	15.9	X	185.72742	162.03386	268.08588	8.39441	0.0469838	0.17982817	3.1085957	21	5 30.9	20.5
540539 2017 SE_{107}	16.6	X	341.20093	156.36404	161.42853	14.45411	0.2693561	0.23562147	2.5961282	21	7 7.3	18.8
540540 2017 SD_{108}	16.1	X	35.22352	284.13852	272.48879	9.08701	0.0851728	0.17564769	3.1577258	21	5 4.3	20.3
540541 2017 SU_{108}	16.4	X	326.59754	351.31448	315.97696	9.49281	0.0836266	0.18867072	3.0106923	21	6 15.0	20.3
540542 2017 SW_{108}	16.3	X	251.08837	129.61277	260.49188	9.31186	0.1041864	0.18663339	3.0325630	21	6 18.9	20.7
540543 2017 SA_{109}	17.7	X	91.58593	62.16460	243.61034	7.68746	0.0639812	0.27874061	2.3209684	21	12 20.8	20.9
540544 2017 SL_{112}	17.3	X	198.77111	110.65433	12.93688	0.76156	0.0680515	0.22501453	2.6770861	21	8 23.2	21.2
540545 2017 SO_{113}	16.1	X	208.06668	355.94226	72.23431	15.99615	0.1815594	0.17213387	3.2005540	21	6 16.4	21.3
540546 2017 SN_{114}	16.7	X	330.38784	55.14739	279.53328	10.68092	0.2137054	0.22698789	2.6615477	21	7 14.6	19.3
540547 2017 SO_{114}	16.8	X	301.07621	166.67243	206.66249	5.46099	0.0675039	0.20826964	2.8187209	21	8 5.6	20.5
540548 2017 SS_{114}	15.7	X	310.47450	264.12690	47.33117	18.02926	0.1141611	0.17456963	3.1707129	21	5 21.9	20.0
540549 2017 SU_{114}	16.8	X	268.94190	234.05783	191.92667	14.16557	0.1591033	0.21323060	2.7748299	21	8 15.8	20.8
540550 2017 SG_{115}	16.7	X	87.73644	95.72816	181.05693	12.44153	0.1425235	0.24390579	2.5370049	21	11 13.9	20.6
540551 2017 SD_{118}	16.6	X	268.06104	56.16002	347.49628	13.06081	0.1537376	0.22022144	2.7157908	21	7 24.5	20.6
540552 2017 SF_{118}	16.9	X	337.60768	347.16077	335.18002	15.63650	0.2218573	0.23008089	2.6376410	21	7 16.9	19.4
540553 2017 SZ_{123}	17.9	X	80.73208	206.53947	129.97654	6.18920	0.1373120	0.30396280	2.1907312	21	—	—
540554 2017 SX_{124}	17.8	X	142.29962	114.95343	150.09989	7.72979	0.1241478	0.29905636	2.2146275	21	12 28.7	21.1
540555 2017 SJ_{125}	16.0	X	152.07376	57.15671	73.48946	12.65640	0.0737828	0.17968499	3.1102468	21	7 9.7	20.7
540556 2017 SN_{125}	17.2	X	325.48645	215.91478	157.79834	9.56826	0.1060168	0.22943969	2.6425529	21	9 15.2	20.0
540557 2017 SR_{125}	16.4	X	202.93332	286.89674	162.02833	10.72905	0.0776226	0.18551257	3.0447653	21	7 11.4	21.2
540558 2017 SZ_{125}	17.3	X	113.53631	132.80520	108.25661	6.31047	0.0792095	0.24048333	2.5610186	21	10 22.2	21.1
540559 2017 SC_{126}	17.0	X	260.57619	274.82646	163.27674	7.52495	0.1536161	0.21563793	2.7541396	21	8 25.1	20.7
540560 2017 SK_{126}	16.6	X	295.98723	17.07756	49.30145	15.19458	0.2420350	0.23385759	2.6091661	21	9 27.6	19.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
540561 2017 SR_{126}	16.2	X	259.27702	299.60333	69.02771	10.75103	0.1017810	0.17610880	3.1522115	21	6 1.8	20.8
540562 2017 SX_{126}	17.7	X	30.84974	215.85787	152.74899	7.32067	0.1229809	0.27445961	2.3450409	21	—	—
540563 2017 SZ_{126}	16.4	X	271.12048	222.86485	163.68104	10.62927	0.0350518	0.19371101	2.9582385	21	7 17.9	20.6
540564 2017 SA_{127}	16.7	X	167.97229	53.45226	102.66263	8.78471	0.0859162	0.20921515	2.8102220	21	9 1.3	21.0
540565 2017 SD_{127}	16.6	X	179.76134	34.91428	77.65253	11.29509	0.1897220	0.17603199	3.1531284	21	7 17.2	21.9
540566 2017 SJ_{127}	16.5	X	141.27741	55.53433	81.19996	12.76536	0.0319318	0.17847847	3.1242480	21	7 1.4	21.0
540567 2017 SL_{127}	16.7	X	281.30273	242.56492	125.54746	9.76986	0.0587775	0.19103118	2.9858401	21	7 4.7	20.9
540568 2017 SR_{127}	17.0	X	225.78540	318.12385	107.05485	10.11512	0.0818333	0.18624425	3.0367856	21	7 7.3	21.4
540569 2017 SE_{128}	16.3	X	231.81081	301.32983	179.13989	12.98031	0.1269226	0.22373908	2.6872505	21	9 19.5	20.2
540570 2017 SF_{128}	17.0	X	323.61038	283.64656	83.10379	7.24095	0.0946334	0.22315920	2.6919037	21	9 4.9	20.2
540571 2017 SM_{128}	16.6	X	231.33877	232.07236	165.05058	10.14603	0.1016960	0.17321159	3.1872644	21	6 7.9	21.6
540572 2017 SP_{128}	16.1	X	259.69258	315.97049	51.66458	19.53940	0.0399529	0.17516590	3.1635133	21	6 6.5	20.7
540573 2017 SU_{128}	17.2	X	210.98450	280.29628	209.87001	7.38043	0.1028193	0.24184561	2.5513923	21	9 10.6	21.1
540574 2017 SB_{130}	16.7	X	208.88427	269.02944	188.39726	7.52792	0.0810164	0.21277267	2.7788098	21	7 28.2	20.9
540575 2017 SP_{130}	16.5	X	31.37818	296.56998	358.04260	10.40037	0.1022869	0.23904772	2.5712619	21	9 16.6	19.4
540576 2017 SP_{131}	17.1	X	220.88323	7.30760	41.81840	1.51185	0.1809042	0.18148024	3.0897012	21	6 5.1	22.0
540577 2017 SY_{131}	17.0	X	282.45752	180.95645	216.71519	4.72014	0.0794585	0.22450795	2.6811116	21	8 10.9	20.6
540578 2017 SF_{132}	16.3	X	215.92173	121.48759	297.78812	15.50334	0.2399940	0.17795771	3.1303400	21	6 10.7	21.8
540579 2017 TQ	18.2	X	229.55304	244.08428	51.96732	23.05159	0.0460133	0.37597844	1.9011983	21	—	—
540580 2017 TA_{7}	16.4	X	269.49602	61.62267	311.71404	17.32775	0.2221635	0.19343864	2.9610147	21	6 2.6	21.2
540581 2017 TD_{7}	17.3	X	356.60994	301.20673	56.50509	6.84771	0.2435653	0.25709888	2.4494538	21	11 7.6	19.1
540582 2017 TE_{7}	16.8	X	259.36724	292.32998	68.64198	5.15938	0.1333308	0.18810742	3.0166998	21	5 19.3	21.2
540583 2017 TL_{7}	15.7	X	196.45707	238.81923	97.41485	4.60401	0.1199950	0.12603636	3.9397816	21	2 26.6	21.8
540584 2017 TS_{7}	17.9	X	353.68905	112.25048	315.33193	4.33831	0.1937229	0.28696585	2.2764034	21	—	—
540585 2017 TR_{8}	17.6	X	278.11275	316.37520	84.02499	4.28180	0.1022128	0.22130402	2.7069269	21	8 7.9	21.1
540586 2017 TZ_{8}	16.4	X	237.81384	227.84560	163.72231	12.28026	0.2255053	0.18437382	3.0572894	21	5 29.0	21.6
540587 2017 TC_{10}	17.6	X	307.03153	53.60591	347.54388	13.43394	0.1773239	0.23819439	2.5773992	21	9 12.9	20.3
540588 2017 TJ_{10}	16.3	X	240.82224	43.46480	352.41543	11.51999	0.1819441	0.18366619	3.0651371	21	6 5.6	21.3
540589 2017 TK_{10}	17.3	X	286.04078	56.27227	1.56220	12.72013	0.2676422	0.22469819	2.6795982	21	8 20.2	20.7
540590 2017 TO_{10}	17.8	X	22.37985	160.40981	249.27390	5.72925	0.1527744	0.29560179	2.2318483	21	—	—
540591 2017 TW_{10}	16.2	X	251.93206	4.28438	9.15925	13.05632	0.1231278	0.17788296	3.1312169	21	5 24.5	21.2
540592 2017 TW_{11}	17.6	X	34.31428	5.66404	349.78844	6.45602	0.1507792	0.27489372	2.3425714	21	12 27.5	20.6
540593 2017 TB_{13}	17.7	X	59.74090	248.60877	61.80506	7.16373	0.1595308	0.27567773	2.3381279	21	11 30.2	20.9
540594 2017 TD_{13}	17.1	X	244.14962	302.13819	137.23523	6.50809	0.0267957	0.22201652	2.7011323	21	8 25.9	20.6
540595 2017 TE_{13}	17.5	X	296.10200	112.96220	270.03830	4.22232	0.1415059	0.21970631	2.7200342	21	8 1.8	20.9
540596 2017 UP_{3}	16.7	X	292.61329	17.40650	356.59059	6.10517	0.0680523	0.21065224	2.7974264	21	7 29.1	20.4
540597 2017 UQ_{3}	17.0	X	326.28770	349.17173	354.29340	5.88998	0.0437222	0.21464830	2.7625984	21	8 8.9	20.5
540598 2017 UM_{4}	18.8	X	268.50598	72.59415	199.97225	21.65008	0.0831773	0.37865411	1.8922315	21	1 7.9	21.7
540599 2017 UY_{6}	16.7	X	254.17522	282.59748	177.23915	29.84414	0.4007272	0.21624464	2.7489857	21	8 14.0	21.6
540600 2017 UN_{8}	16.4	X	296.11761	108.28452	279.36836	6.69954	0.1425720	0.21752917	2.7381530	21	8 7.2	19.8
540601 2017 UU_{11}	16.0	X	237.53583	137.99773	272.47066	9.86519	0.0910510	0.17859855	3.1228474	21	6 30.8	20.6
540602 2017 UX_{11}	16.7	X	301.08936	13.04306	324.56626	9.02788	0.1114369	0.18177857	3.0863198	21	6 13.8	21.0
540603 2017 UM_{13}	17.1	X	216.17380	113.71219	310.94041	7.62817	0.1266758	0.19356225	2.9597540	21	6 23.2	21.8
540604 2017 UO_{13}	15.8	X	170.60741	113.49229	327.92676	9.22501	0.0275064	0.17913270	3.1166364	21	5 25.2	20.5
540605 2017 UT_{13}	16.5	X	220.11339	55.80471	348.49251	11.40651	0.1950871	0.18062380	3.0994602	21	5 26.2	21.8
540606 2017 UW_{14}	16.4	X	294.24410	302.54393	54.06874	15.81625	0.1656178	0.20173535	2.8792633	21	6 18.9	20.3
540607 2017 UR_{15}	17.7	X	71.39095	240.49331	35.79807	6.68089	0.1196936	0.25927491	2.4357295	21	10 23.1	20.7
540608 2017 UT_{15}	16.9	X	293.49624	326.68320	31.76739	6.62984	0.0808349	0.20931247	2.8093508	21	7 6.0	20.6
540609 2017 UG_{16}	16.8	X	256.40829	351.52812	5.22792	2.16783	0.0998071	0.18169694	3.0872441	21	5 14.2	21.4
540610 2017 UF_{17}	16.7	X	210.53032	43.13826	10.86335	10.55695	0.1528897	0.18019481	3.1043775	21	6 1.1	21.9
540611 2017 UJ_{18}	17.2	X	290.99421	211.75980	190.11748	14.16450	0.1594365	0.22969120	2.6406234	21	8 15.5	20.6
540612 2017 UD_{19}	17.0	X	307.47347	223.25009	143.05596	3.66107	0.1233216	0.22315184	2.6919629	21	7 31.3	20.2
540613 2017 UJ_{19}	18.1	X	106.92211	242.88786	49.45034	5.52299	0.1837144	0.29966851	2.2116105	21	12 30.5	21.6
540614 2017 UR_{19}	17.5	X	263.82998	240.44729	166.99322	9.45937	0.1307525	0.21561696	2.7543182	21	7 22.0	21.5
540615 2017 UB_{20}	17.0	X	274.11488	323.68850	71.20509	4.71724	0.1183683	0.21570028	2.7536088	21	7 22.8	20.8
540616 2017 UF_{20}	17.2	X	274.13280	224.82674	182.36665	13.52770	0.1885286	0.22035911	2.7146596	21	7 25.2	21.1
540617 2017 UJ_{20}	17.1	X	99.39597	195.01850	24.22773	10.95323	0.0871394	0.23288226	2.6164460	21	9 8.9	20.9
540618 2017 UJ_{21}	17.5	X	261.09664	307.31947	125.42791	4.62782	0.1285577	0.22775924	2.6555351	21	8 24.7	20.9
540619 2017 UL_{21}	17.0	X	209.21986	31.95861	35.75263	10.09637	0.1079326	0.18882852	3.0090148	21	6 20.1	21.8
540620 2017 UM_{21}	17.7	X	34.88993	231.81143	96.08641	3.79960	0.1942207	0.26803506	2.3823651	21	11 26.7	20.5
540621 2017 UR_{21}	17.0	X	13.07285	203.97161	79.99310	5.58601	0.0280485	0.21281214	2.7784662	21	7 26.4	20.6
540622 2017 US_{21}	17.2	X	296.96643	311.24932	80.02210	4.15587	0.1297049	0.22879767	2.6474940	21	8 20.3	20.3
540623 2017 UU_{22}	17.1	X	344.53082	161.41308	148.27294	4.98116	0.0507078	0.21070894	2.7969245	21	7 17.8	20.6
540624 2017 UZ_{22}	17.2	X	240.28657	291.34634	142.39312	4.40560	0.1124012	0.21302518	2.7766134	21	7 31.7	21.3
540625 2017 UA_{23}	17.8	X	294.55371	317.74532	88.02210	3.37524	0.2143947	0.23127017	2.6285907	21	8 22.9	20.8
540626 2017 UF_{23}	17.4	X	253.34807	288.93440	136.59620	4.54231	0.1308780	0.21610103	2.7502035	21	8 3.3	21.4
540627 2017 US_{23}	16.5	X	175.28054	92.89162	16.21290	16.48017	0.2511605	0.17927481	3.1149891	21	7 11.8	22.3
540628 2017 UH_{24}	18.2	X	354.84495	243.38711	160.48148	3.18022	0.1232520	0.27835866	2.3230910	21	12 31.3	20.6
540629 2017 UX_{24}	18.6	X	357.69680	12.36118	56.91201	2.92329	0.0916674	0.29720616	2.2238092	21	—	—
540630 2017 UM_{25}	16.0	X	170.51875	72.24483	23.23820	22.57061	0.0611421	0.18184292	3.0855917	21	6 10.5	21.0
540631 2017 UR_{25}	17.0	X	293.50835	259.89719	93.84107	3.29042	0.0829668	0.20341706	2.8633722	21	6 28.6	20.7
540632 2017 UD_{26}	17.1	X	247.62080	341.05341	75.55981	5.43319	0.0578880	0.21084458	2.7957249	21	7 26.5	21.0
540633 2017 UE_{26}	17.2	X	310.20602	230.14952	150.31526	5.81722	0.1775145	0.23095860	2.6309542	21	8 18.4	19.9
540634 2017 UJ_{26}	17.1	X	187.07227	338.21726	102.65578	2.95945	0.0932690	0.17802927	3.1295011	21	6 15.0	21.8
540635 2017 UG_{27}	17.7	X	256.22234	286.01570	140.54512	2.85376	0.0584111	0.22233245	2.6985729	21	8 19.4	21.3
540636 2017 UN_{27}	17.4	X	272.55220	232.51136	176.36971	6.35847	0.0409589	0.22285299	2.6943690	21	8 18.9	21.0
540637 2017 UL_{28}	17.6	X	264.35172	350.90091	48.48151	5.75141	0.0726330	0.20908560	2.8113827	21	7 23.3	21.6
540638 2017 UM_{28}	17.7	X	261.38384	250.28295	165.30835	4.93729	0.1392568	0.21376498	2.7702035	21	7 29.1	21.6
540639 2017 UP_{28}	17.5	X	245.92469	254.91317	177.98202	7.69004	0.2109110	0.21211338	2.7845649	21	7 24.3	22.0
540640 2017 UH_{29}	17.0	X	266.44970	344.76696	65.48496	4.66811	0.0954804	0.21927513	2.7235988	21	8 6.7	20.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
540641 2017 UL_{29}	17.7	X	264.25698	15.69428	42.74829	8.78179	0.0669054	0.22413746	2.6840654	21	8 22.4	21.4
540642 2017 UM_{29}	17.0	X	337.10691	302.77753	20.35141	9.41964	0.1699087	0.22177726	2.7030746	21	7 20.3	19.9
540643 2017 UO_{29}	17.1	X	252.24441	255.11162	179.72044	6.63902	0.1002737	0.22379302	2.6868187	21	8 17.6	20.8
540644 2017 UW_{29}	17.1	X	179.80161	35.82310	60.46008	4.93072	0.1020525	0.18206246	3.0831107	21	6 26.6	21.8
540645 2017 UX_{29}	17.4	X	196.06876	79.95816	38.20494	10.32553	0.0748584	0.21170361	2.7881569	21	8 16.6	21.7
540646 2017 UM_{31}	17.3	X	282.09783	49.53630	359.76096	8.44849	0.1226813	0.22959775	2.6413400	21	8 24.6	20.6
540647 2017 UW_{31}	17.4	X	1.77505	315.99088	9.12198	13.71750	0.1122905	0.23924974	2.5698143	21	9 14.1	20.1
540648 2017 UT_{32}	16.9	X	325.78032	155.94056	191.44317	5.93085	0.0491293	0.22338673	2.6900755	21	8 9.9	20.3
540649 2017 UB_{33}	17.2	X	267.22197	44.16581	8.94466	11.59661	0.2652834	0.21238681	2.7821744	21	7 19.5	21.5
540650 2017 UK_{33}	16.8	X	281.86972	5.37972	28.91987	14.63466	0.1552069	0.21032962	2.8002863	21	7 31.5	20.8
540651 2017 US_{33}	18.7	X	56.45632	169.19190	224.94574	2.89254	0.1291830	0.31132679	2.1560478	21	—	—
540652 2017 UA_{34}	17.1	X	203.87252	62.14565	30.33783	4.83096	0.1847827	0.18493860	3.0510618	21	7 13.6	22.2
540653 2017 UE_{34}	17.3	X	302.05225	181.68886	195.32265	5.74035	0.0752798	0.21651794	2.7466719	21	8 11.5	20.9
540654 2017 UF_{34}	17.2	X	288.84312	187.98495	187.20237	3.73078	0.0984854	0.20608408	2.8386145	21	7 17.8	20.9
540655 2017 UE_{35}	17.3	X	287.03217	140.10932	262.86779	6.39029	0.0954969	0.21842579	2.7306546	21	8 20.8	20.9
540656 2017 UK_{35}	15.8	X	225.43812	38.98606	7.41085	22.12227	0.0831379	0.17384177	3.1795571	21	6 9.4	21.0
540657 2017 UO_{35}	16.1	X	328.77586	38.48635	283.03552	13.24037	0.0441827	0.19241127	2.9715454	21	7 10.8	20.0
540658 2017 UW_{36}	17.2	X	306.16887	0.36177	351.01985	1.54488	0.1037670	0.19787831	2.9165578	21	7 11.1	20.9
540659 2017 UY_{36}	17.1	X	15.77803	74.17361	233.15432	1.84310	0.0460021	0.22177765	2.7030715	21	8 31.2	20.5
540660 2017 UM_{37}	17.6	X	343.56890	119.47461	263.83966	3.11193	0.0743741	0.24698123	2.5159002	21	10 30.8	20.5
540661 2017 UR_{37}	16.2	X	263.15574	340.63235	44.41064	9.53733	0.0873953	0.18367592	3.0650289	21	6 29.3	20.7
540662 2017 UU_{37}	16.1	X	57.21935	229.00502	65.34394	14.96965	0.1268970	0.23327968	2.6134735	21	10 30.7	19.7
540663 2017 UV_{37}	17.1	X	15.03983	262.32705	88.84055	2.32266	0.1340548	0.24425411	2.5345924	21	11 13.9	19.8
540664 2017 UL_{38}	18.0	X	296.19283	243.20900	213.16003	4.50357	0.0681980	0.25981066	2.4323799	21	11 30.1	20.8
540665 2017 UU_{38}	18.1	X	336.93068	26.88163	31.66248	1.56766	0.1800592	0.26283358	2.4136937	21	12 21.4	20.2
540666 2017 UK_{39}	16.2	X	214.28071	39.86607	42.50706	18.80476	0.0931940	0.18286834	3.0740460	21	7 18.4	21.2
540667 2017 UE_{40}	16.4	X	275.32849	58.76080	323.36950	11.12496	0.0779685	0.19737163	2.9215471	21	7 14.4	20.5
540668 2017 US_{41}	16.2	X	241.04803	182.09671	272.26701	21.10517	0.0449520	0.22417396	2.6837740	21	8 26.3	20.4
540669 2017 UR_{42}	16.6	X	323.63394	278.66309	83.76482	13.49348	0.2861537	0.22329889	2.6907809	21	8 4.9	19.1
540670 2017 UU_{44}	17.8	X	236.79158	176.30425	102.72763	24.38960	0.0516006	0.35670777	1.9690693	21	—	—
540671 2017 UT_{45}	16.9	X	278.09141	162.35297	219.46219	5.02040	0.0283535	0.20140527	2.8824083	21	7 21.9	20.9
540672 2017 UV_{45}	17.0	X	251.40076	31.85350	353.90477	4.21514	0.1551125	0.18443827	3.0565771	21	6 7.6	21.6
540673 2017 UJ_{46}	16.2	X	285.13846	257.82005	85.10186	10.51981	0.0901655	0.17479352	3.1680048	21	6 3.4	20.7
540674 2017 UT_{46}	17.2	X	343.46068	245.64382	91.47536	7.42529	0.0406943	0.21019401	2.8014905	21	8 26.8	20.8
540675 2017 UU_{46}	17.8	X	215.06119	81.12694	70.81553	10.80011	0.1362179	0.23130549	2.6283231	21	10 16.0	21.8
540676 2017 UC_{47}	17.5	X	48.63925	121.80028	182.02772	11.68888	0.1749038	0.24589183	2.5233257	21	11 7.8	20.8
540677 2017 UW_{47}	17.1	X	309.97073	197.38795	202.38503	17.51987	0.1962579	0.22815363	2.6524739	21	9 8.8	20.1
540678 2017 UN_{48}	17.0	X	204.14620	305.86682	148.63258	11.86449	0.0576912	0.18382308	3.0633928	21	7 20.9	21.6
540679 2017 UE_{49}	16.4	X	58.38810	111.86433	110.43639	11.72270	0.0756073	0.17063037	3.2193276	21	7 12.1	20.8
540680 2017 UZ_{49}	18.0	X	52.97467	258.75857	127.80103	9.55451	0.0724185	0.29475814	2.2361049	21	—	—
540681 2017 UH_{50}	17.0	X	282.84856	204.33929	234.10435	12.16370	0.1425325	0.22589736	2.6701067	21	9 24.1	20.5
540682 2017 UA_{51}	17.8	X	1.60027	113.59663	290.09869	6.36639	0.1035707	0.26865761	2.3786833	21	—	—
540683 2017 VO_{2}	16.2	X	193.75165	337.03523	117.88975	11.09781	0.0730099	0.18631822	3.0359818	21	7 9.9	20.8
540684 2017 VS_{2}	16.3	X	295.59410	203.12897	130.22370	11.59292	0.1387487	0.18659612	3.0329667	21	5 30.1	20.6
540685 2017 VU_{2}	15.9	X	6.01491	188.72126	83.16601	14.37687	0.1357555	0.19498182	2.9453707	21	6 30.3	19.2
540686 2017 VL_{3}	16.9	X	212.85021	302.67766	126.52744	11.11910	0.2298987	0.17533232	3.1615113	21	6 20.9	22.4
540687 2017 VJ_{4}	16.4	X	269.29282	349.77216	3.51201	2.70368	0.1294588	0.17748184	3.1359329	21	5 21.0	21.0
540688 2017 VO_{4}	16.8	X	349.33883	1.02533	8.05613	24.68405	0.1846547	0.24069433	2.5595216	21	10 18.7	19.4
540689 2017 VS_{4}	17.0	X	289.83105	27.03113	58.27752	14.44197	0.2204762	0.23558422	2.5964019	21	10 15.6	19.9
540690 2017 VG_{5}	16.1	X	206.16206	46.30656	37.82789	27.75309	0.2008196	0.17594617	3.1541536	21	7 3.2	21.8
540691 2017 VL_{5}	16.9	X	341.87719	219.03700	165.53616	4.95748	0.1440447	0.24201290	2.5502164	21	11 3.5	19.3
540692 2017 VN_{5}	18.1	X	216.75693	79.35758	219.88361	21.55799	0.0380190	0.35218878	1.9858771	21	—	—
540693 2017 VU_{5}	17.2	X	307.03796	356.69838	46.28972	7.71735	0.2504723	0.23115597	2.6294564	21	9 8.3	19.8
540694 2017 VB_{6}	17.5	X	311.93189	348.66508	47.08949	6.18599	0.0803806	0.22643603	2.6658704	21	9 27.1	20.7
540695 2017 VW_{6}	17.3	X	264.28907	278.41142	175.33701	12.27347	0.1979928	0.23819976	2.5773605	21	9 15.2	20.5
540696 2017 VK_{7}	17.2	X	214.58313	71.12152	8.21517	7.32746	0.1403496	0.18146223	3.0899056	21	7 10.0	22.2
540697 2017 VL_{7}	16.4	X	227.52431	24.92551	29.85900	19.76474	0.1011905	0.17752937	3.1353732	21	6 22.9	21.5
540698 2017 VQ_{7}	17.3	X	285.37600	0.20594	24.65541	6.64519	0.0411453	0.21101533	2.7942164	21	8 7.5	21.1
540699 2017 VU_{7}	16.6	X	305.61082	292.14537	29.27560	8.97010	0.0758291	0.17469091	3.1692452	21	6 3.0	21.0
540700 2017 VY_{7}	17.5	X	244.34698	87.90668	30.12715	8.09506	0.1948038	0.22397387	2.6853722	21	9 24.9	21.4
540701 2017 VV_{8}	16.1	X	106.91911	319.99020	229.48246	14.01644	0.1990843	0.17304791	3.1892739	21	8 9.5	21.4
540702 2017 VQ_{9}	16.2	X	106.95453	242.47205	297.80193	8.39425	0.0485420	0.18012803	3.1051448	21	7 17.4	20.5
540703 2017 VT_{9}	17.8	X	240.30019	117.62738	26.47808	13.52719	0.1202258	0.24201664	2.5501902	21	10 31.6	21.3
540704 2017 VU_{9}	16.7	X	64.96822	15.39632	256.20657	12.45182	0.1359719	0.22515008	2.6760115	21	9 30.8	20.6
540705 2017 VW_{9}	16.6	X	157.88595	138.78634	357.67239	7.80945	0.1226248	0.17280536	3.1922574	21	7 26.9	21.7
540706 2017 VD_{10}	16.9	X	130.09751	265.17110	327.86633	14.47425	0.0511223	0.23920494	2.5701351	21	10 18.2	20.9
540707 2017 VT_{10}	16.6	X	240.19341	266.32212	151.90479	10.21570	0.1688177	0.18457745	3.0550404	21	7 5.2	21.4
540708 2017 VL_{11}	17.0	X	268.77292	244.77915	190.88096	9.81025	0.1036391	0.23095452	2.6309852	21	9 9.4	20.5
540709 2017 VU_{11}	17.2	X	17.42390	258.48578	37.34944	12.64951	0.1136462	0.22515985	2.6759341	21	9 1.8	20.5
540710 2017 VW_{15}	17.4	X	281.39721	138.25005	297.76751	7.91457	0.1393768	0.23770098	2.5809647	21	9 20.6	20.7
540711 2017 VB_{17}	16.7	X	305.48023	120.80752	269.05278	5.21312	0.0436721	0.22156401	2.7048088	21	9 6.5	20.2
540712 2017 VJ_{17}	17.5	X	336.59938	75.52294	278.80934	3.82323	0.0852318	0.22242655	2.6978117	21	9 3.7	20.6
540713 2017 VW_{17}	16.7	X	200.25102	125.91319	317.32701	3.59911	0.1694901	0.17257797	3.1950609	21	6 29.2	21.9
540714 2017 VR_{19}	16.3	X	16.75975	27.80057	240.50309	9.22271	0.0292431	0.18587439	3.0408127	21	7 7.6	20.5
540715 2017 VS_{19}	17.5	X	136.40367	8.28207	252.24119	5.83929	0.1111347	0.27393444	2.3480371	21	12 13.1	20.8
540716 2017 VU_{19}	17.7	X	105.27366	26.44903	261.56764	3.83474	0.0237368	0.26621592	2.3932057	21	12 8.6	20.8
540717 2017 VK_{23}	16.9	X	274.38929	201.48936	237.53110	10.29194	0.0953948	0.22750176	2.6575384	21	9 20.1	20.6
540718 2017 VM_{24}	17.5	X	205.09823	200.60204	317.15265	2.33265	0.1926440	0.22248115	2.6973703	21	10 1.9	22.0
540719 2017 VO_{24}	17.2	X	24.92344	20.24013	282.25718	2.22873	0.0581216	0.21604847	2.7506495	21	9 7.7	20.7
540720 2017 VQ_{24}	16.4	X	340.44016	61.32503	243.25145	7.49910	0.0173689	0.18096263	3.0955901	21	7 5.9	20.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
540721 2017 VH_{25}	17.5	X	43.81693	317.36539	324.74829	2.39706	0.0497829	0.21302068	2.7766526	21	9 6.8	21.0
540722 2017 VO_{25}	17.6	X	252.09278	63.28946	29.16661	6.57755	0.0098377	0.22272720	2.6953834	21	9 26.7	21.1
540723 2017 VT_{25}	16.1	X	250.09261	347.47740	42.58137	15.45140	0.0660358	0.17592072	3.1544578	21	6 21.4	20.9
540724 2017 VX_{25}	16.2	X	250.04064	352.76577	50.55918	18.45699	0.0776705	0.18394447	3.0620449	21	7 8.6	20.9
540725 2017 VR_{27}	16.9	X	29.20752	51.29096	239.91520	3.17371	0.0816777	0.21164485	2.7886729	21	8 31.5	20.4
540726 2017 VX_{27}	17.9	X	320.73302	38.17442	47.68021	6.80252	0.0855227	0.26562543	2.3967512	21	12 25.9	20.4
540727 2017 VE_{31}	17.4	X	58.01681	263.48848	47.74005	2.67974	0.0651771	0.24757843	2.5118528	21	11 11.1	20.7
540728 2017 VF_{31}	17.2	X	338.76969	262.42666	110.88351	4.87685	0.0829768	0.22634596	2.6665775	21	10 9.4	20.3
540729 2017 VG_{31}	17.5	X	306.23886	70.32367	346.83728	3.03943	0.1216072	0.23262325	2.6183878	21	10 10.6	20.4
540730 2017 VK_{31}	17.4	X	307.97170	355.43171	21.51074	7.97308	0.2158798	0.22458925	2.6804645	21	8 6.0	20.4
540731 2017 VM_{31}	16.9	X	303.45832	230.80065	171.62723	2.83942	0.1189651	0.23063061	2.6334480	21	9 15.9	19.7
540732 2017 VT_{31}	17.2	X	324.44425	244.87392	136.32882	4.64806	0.1563943	0.23017947	2.6368878	21	9 21.4	19.8
540733 2017 VW_{31}	17.2	X	62.74758	276.02023	82.25605	7.26860	0.1069562	0.28841475	2.2687731	21	—	—
540734 2017 VV_{32}	16.7	X	284.59015	9.29440	71.17958	14.31631	0.0613000	0.23170641	2.6252904	21	10 23.3	20.2
540735 2017 WR_{2}	18.0	X	54.45519	195.24694	185.89839	5.33237	0.1835562	0.29470121	2.2363929	21	—	—
540736 2017 WN_{3}	16.4	X	216.93791	10.05799	65.98964	11.85254	0.0811819	0.17445450	3.1721077	21	7 11.8	21.3
540737 2017 WP_{3}	17.0	X	272.40966	318.40546	112.09810	1.75609	0.0525528	0.21340241	2.7733403	21	9 16.3	20.6
540738 2017 WR_{3}	18.5	X	61.63657	169.99065	195.00279	2.14869	0.1150084	0.28561533	2.2835737	21	—	—
540739 2017 WX_{3}	16.1	X	226.11937	220.59376	208.58843	15.53787	0.0608460	0.17941665	3.1133471	21	7 11.5	21.0
540740 2017 WA_{4}	16.4	X	172.53742	53.99207	75.83396	10.49098	0.0291411	0.18342791	3.0677910	21	8 1.7	20.9
540741 2017 WB_{4}	16.5	X	296.63331	136.57023	219.89501	6.79274	0.1088130	0.18629403	3.0362447	21	7 2.0	20.6
540742 2017 WN_{4}	17.0	X	284.95882	121.79840	289.52846	5.79211	0.0511712	0.21165923	2.7885466	21	9 4.5	20.7
540743 2017 WP_{4}	15.4	X	124.45717	303.89757	246.69514	26.19795	0.1200777	0.18418349	3.0593952	21	8 14.5	20.7
540744 2017 WQ_{4}	17.2	X	317.87426	57.82090	33.88298	6.86941	0.1120806	0.25961014	2.4336322	21	12 28.2	19.7
540745 2017 WC_{5}	17.7	X	268.93836	42.47503	60.44055	12.49858	0.2588251	0.23205602	2.6226530	21	9 30.8	21.3
540746 2017 WR_{6}	16.7	X	275.91791	178.26981	239.75215	12.64324	0.1123780	0.21171693	2.7880400	21	8 19.2	20.7
540747 2017 WZ_{7}	18.2	X	242.80664	66.34859	162.99235	4.77603	0.0662065	0.30408614	2.1901387	21	—	—
540748 2017 WD_{9}	16.9	X	214.91982	42.10312	41.80696	10.64571	0.2158420	0.17649322	3.1476326	21	7 11.5	22.3
540749 2017 WN_{9}	17.3	X	299.81558	129.12605	325.08043	3.44569	0.0997477	0.24711399	2.5149991	21	11 25.9	20.0
540750 2017 WT_{9}	17.8	X	55.50426	335.74562	45.75925	8.70616	0.1810359	0.29127486	2.2538969	21	—	—
540751 2017 WX_{9}	15.7	X	338.85125	51.94101	343.79653	13.70551	0.1087314	0.24283077	2.5444870	21	11 4.2	18.7
540752 2017 WO_{12}	18.2	X	259.61980	87.41312	207.63372	25.89184	0.1132582	0.38261645	1.8791450	21	1 23.9	21.4
540753 2017 WQ_{19}	17.1	X	284.46916	231.00941	201.31825	25.33044	0.1714624	0.22588127	2.6702334	21	9 14.7	20.6
540754 2017 WB_{21}	18.0	X	349.73646	44.30239	20.28080	10.36833	0.1960431	0.27606303	2.3359518	21	—	—
540755 2017 WH_{21}	16.9	X	293.49247	106.02696	298.12103	5.30175	0.0688727	0.21953465	2.7214519	21	9 5.7	20.4
540756 2017 WW_{21}	17.2	X	320.26080	9.83412	33.80481	5.61300	0.2764642	0.23680853	2.5874452	21	10 6.3	18.8
540757 2017 WZ_{23}	16.6	X	231.54611	212.66721	233.79993	1.34283	0.1161354	0.19037996	2.9926452	21	8 5.8	21.0
540758 2017 WB_{24}	16.9	X	324.20760	53.39733	306.71206	12.14179	0.1703461	0.22729522	2.6591481	21	8 14.1	19.5
540759 2017 WX_{24}	16.6	X	289.41343	56.00531	314.51241	12.07783	0.2130304	0.21273354	2.7791505	21	6 26.1	20.4
540760 2017 WL_{26}	15.9	X	311.15616	220.91197	88.88994	17.72145	0.1451566	0.17480917	3.1678157	21	5 22.4	20.2
540761 2017 WU_{26}	17.2	X	306.90058	273.01421	146.31966	13.50528	0.1616658	0.22716981	2.6601266	21	10 15.4	20.2
540762 2017 WH_{27}	16.8	X	319.82298	343.25155	46.92850	12.01707	0.1869933	0.22727559	2.6593011	21	9 26.9	19.5
540763 2017 WS_{27}	16.4	X	270.93425	80.99400	15.80544	14.68832	0.1177649	0.23821534	2.5772481	21	10 11.2	19.6
540764 2017 WH_{29}	16.7	X	355.61329	358.66326	307.01343	33.29450	0.1809383	0.23614000	2.5923263	21	7 31.2	18.9
540765 2017 WO_{29}	16.7	X	283.31747	154.45056	272.26226	8.46341	0.1474759	0.21574015	2.7532696	21	9 6.7	20.4
540766 2017 WU_{29}	15.9	X	228.46018	256.92748	135.47602	26.60450	0.3041609	0.17667048	3.1455269	21	5 23.9	21.9
540767 2017 WV_{29}	15.9	X	297.75193	312.01354	58.85458	10.62820	0.0951677	0.19068726	2.9894291	21	7 28.5	20.0
540768 2017 WC_{30}	15.7	X	58.46525	165.28283	75.78987	14.14002	0.0801815	0.17336755	3.1853526	21	8 10.3	20.2
540769 2017 XY_{1}	16.0	X	168.79005	239.64290	272.14977	24.78046	0.3524669	0.17844314	3.1246603	21	8 12.6	22.3
540770 2017 XF_{3}	15.6	X	250.70877	325.00640	123.70843	27.32439	0.1849433	0.21977969	2.7194287	21	8 26.4	19.8
540771 2017 XJ_{3}	17.0	X	338.06659	252.27985	144.25785	3.46135	0.1764096	0.24137611	2.5546997	21	11 14.4	19.2
540772 2017 XM_{3}	17.6	X	345.80483	160.61658	258.20021	4.12733	0.0940271	0.26450011	2.4035444	21	12 29.8	20.2
540773 2017 XQ_{3}	17.0	X	352.48752	125.83851	222.77872	5.33897	0.0299602	0.21737277	2.7394663	21	9 19.9	20.6
540774 2017 XR_{3}	17.5	X	50.15468	219.79582	84.07370	5.16712	0.1666338	0.23714537	2.5849945	21	11 6.4	20.8
540775 2017 XF_{4}	16.6	X	332.99481	120.13739	243.96732	8.71887	0.1185609	0.22713382	2.6604076	21	9 7.7	19.7
540776 2017 XG_{4}	15.3	X	109.64647	116.55281	64.43433	22.30768	0.0478751	0.17288461	3.1912819	21	7 23.8	20.2
540777 2017 XJ_{4}	17.6	X	355.95091	180.61661	224.68609	6.17138	0.1251923	0.25921174	2.4361252	21	12 29.4	20.3
540778 2017 XK_{4}	16.6	X	306.15385	319.70979	77.43449	12.94280	0.1872939	0.21652188	2.7466386	21	9 9.4	19.9
540779 2017 XM_{4}	17.1	X	302.30934	51.65672	336.16982	3.25688	0.1117143	0.21205219	2.7851006	21	8 23.7	20.6
540780 2017 XO_{4}	17.4	X	85.39142	356.72039	268.82823	8.85398	0.0584097	0.22704237	2.6611220	21	10 9.1	21.3
540781 2017 XS_{4}	18.4	X	53.31178	105.26753	273.80501	5.23868	0.0582707	0.28821588	2.2698167	21	—	—
540782 2017 XX_{4}	16.3	X	204.57738	54.28601	29.87433	10.41635	0.0525938	0.17424349	3.1746682	21	7 10.9	21.2
540783 2017 XA_{5}	15.9	X	353.99835	247.32528	45.05890	17.37908	0.1344682	0.18536936	3.0463333	21	7 8.1	19.7
540784 2017 XN_{5}	17.1	X	248.89733	213.84117	257.73634	13.02753	0.1162251	0.22294916	2.6935941	21	9 23.4	21.1
540785 2017 XH_{6}	16.4	X	342.73582	254.18742	37.96343	10.01839	0.0919913	0.17324535	3.1868502	21	6 18.8	20.5
540786 2017 XK_{6}	15.9	X	285.83499	115.02397	251.25627	9.68287	0.0524276	0.18278830	3.0749433	21	7 7.9	20.2
540787 2017 XL_{6}	16.9	X	113.65145	217.16637	45.85012	13.33299	0.0408125	0.24439250	2.5336355	21	11 13.3	20.2
540788 2017 XV_{6}	16.3	X	114.85281	146.56026	44.60986	13.60201	0.0793586	0.18392352	3.0622775	21	8 19.9	21.0
540789 2017 XJ_{7}	17.6	X	251.71058	202.12807	283.99920	4.28442	0.1723549	0.23056552	2.6339436	21	10 12.9	21.4
540790 2017 XQ_{7}	18.0	X	326.53316	56.21575	36.23454	5.32043	0.1781879	0.26629615	2.3927250	21	—	—
540791 2017 XA_{8}	16.2	X	278.53594	117.73136	249.57220	14.24346	0.0145530	0.17506604	3.1647162	21	7 4.6	20.8
540792 2017 XL_{8}	16.9	X	283.99129	13.87549	42.64790	6.30886	0.0996905	0.21443427	2.7644363	21	9 9.3	20.5
540793 2017 XO_{8}	17.7	X	97.65972	274.45426	14.03878	1.66017	0.1795174	0.26496052	2.4007592	21	12 11.7	21.5
540794 2017 XH_{9}	17.4	X	265.12289	162.88482	267.03543	3.20095	0.0484741	0.21077907	2.7963040	21	9 3.6	21.1
540795 2017 XB_{10}	17.1	X	0.55163	92.16199	238.91820	4.74185	0.0479441	0.21349355	2.7725510	21	9 7.8	20.7
540796 2017 XG_{10}	16.5	X	205.90039	203.56291	239.99780	8.11116	0.0604584	0.17515658	3.1636256	21	7 8.4	21.3
540797 2017 XJ_{10}	17.1	X	4.20523	287.95049	51.06745	4.79991	0.0893084	0.22524536	2.6752568	21	10 2.9	20.3
540798 2017 XM_{10}	17.1	X	261.15492	91.20109	51.18426	7.00985	0.1028752	0.25469051	2.4648710	21	12 2.9	19.9
540799 2017 XN_{10}	16.5	X	270.59402	225.03516	243.94655	12.47895	0.1361744	0.23657020	2.5891827	21	10 21.9	19.9
540800 2017 XP_{10}	17.9	X	284.18240	46.13273	52.40508	2.49893	0.1021842	0.24211395	2.5495068	21	11 6.3	20.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
540801 2017 XR_{10}	17.5	X	307.05917	357.71720	54.54130	3.26061	0.1511599	0.23031817	2.6358291	21	10 3.7	20.2
540802 2017 XS_{10}	16.7	X	133.77024	103.37031	50.45543	10.04693	0.0512651	0.17121040	3.2120524	21	7 17.6	21.5
540803 2017 XW_{10}	17.1	X	68.21429	243.14833	51.04728	3.98266	0.1423905	0.24337251	2.5407096	21	11 11.9	20.7
540804 2017 XD_{11}	17.4	X	205.08013	93.43643	7.70267	0.29506	0.1648612	0.18075885	3.0979163	21	7 25.3	22.2
540805 2017 XE_{11}	16.5	X	336.52662	252.86242	55.57538	11.87240	0.0770365	0.18187506	3.0852281	21	7 2.7	20.6
540806 2017 XF_{11}	17.4	X	305.47668	14.38827	57.67169	4.86047	0.0833558	0.24271386	2.5453040	21	11 6.3	20.2
540807 2017 XO_{11}	17.1	X	38.44111	81.79931	238.41635	5.32841	0.1241786	0.24096274	2.5576206	21	11 3.9	20.1
540808 2017 XT_{11}	16.9	X	58.63523	215.13096	82.98006	2.71318	0.1505308	0.24123631	2.5556866	21	11 7.0	20.3
540809 2017 XH_{12}	17.1	X	338.30410	304.42654	65.37685	3.94514	0.1550488	0.23034177	2.6356491	21	10 3.3	19.6
540810 2017 XJ_{12}	17.2	X	349.74902	260.08796	69.95736	3.07848	0.0458465	0.20425467	2.8555387	21	8 24.5	20.8
540811 2017 XK_{12}	16.5	X	178.66539	55.86075	59.02033	12.81414	0.0327560	0.17824089	3.1270235	21	7 20.6	21.2
540812 2017 XO_{12}	16.5	X	137.54089	324.68576	237.68678	14.02672	0.0659759	0.21244643	2.7816539	21	9 17.4	20.9
540813 2017 XU_{12}	16.1	X	306.92503	102.76456	232.89204	9.68711	0.0640889	0.17766449	3.1337833	21	6 25.7	20.4
540814 2017 XJ_{13}	17.4	X	5.66606	158.01266	236.25677	4.97517	0.1190122	0.26378529	2.4078846	21	12 30.3	20.1
540815 2017 XX_{13}	17.3	X	12.28499	253.24855	86.66883	2.71393	0.1097671	0.23308466	2.6149311	21	10 20.1	20.3
540816 2017 XA_{14}	17.1	X	245.25321	324.82244	131.00071	0.56271	0.0301797	0.21382782	2.7696607	21	9 16.5	20.8
540817 2017 XK_{14}	18.1	X	273.56326	251.64872	235.22208	5.22530	0.0736071	0.25452458	2.4659422	21	12 5.2	20.9
540818 2017 XP_{14}	17.2	X	10.83769	140.12493	178.15511	0.60810	0.0662500	0.21184015	2.7869587	21	9 9.3	20.6
540819 2017 XT_{14}	17.0	X	209.46500	101.70692	54.07070	10.89688	0.0609711	0.22876485	2.6477472	21	10 20.4	20.8
540820 2017 XY_{14}	16.8	X	259.13353	17.12284	29.34729	2.52211	0.1146509	0.18985999	2.9981067	21	7 18.8	21.1
540821 2017 XA_{15}	17.2	X	300.61369	345.41421	50.89916	5.17659	0.0714191	0.21395404	2.7685713	21	9 9.9	20.7
540822 2017 XG_{15}	16.2	X	188.99151	48.80136	53.34720	9.82350	0.0613036	0.17366402	3.1817262	21	7 15.3	21.1
540823 2017 XO_{15}	17.8	X	217.40580	242.72710	312.02799	1.39757	0.1269725	0.26099534	2.4250138	21	12 12.3	20.9
540824 2017 XY_{15}	17.0	X	344.80229	273.74008	71.55816	1.52666	0.0828554	0.21321153	2.7749953	21	9 6.7	20.2
540825 2017 XB_{16}	17.0	X	0.89460	69.39633	240.59281	6.47142	0.2119295	0.21027274	2.8007912	21	8 15.8	19.6
540826 2017 XF_{16}	17.0	X	51.67591	49.93122	241.25150	5.24252	0.0385711	0.21895369	2.7262638	21	9 26.9	20.7
540827 2017 XJ_{16}	16.8	X	285.05017	100.33702	293.78474	0.82161	0.0209655	0.19837634	2.9116743	21	8 18.7	20.7
540828 2017 XL_{16}	16.6	X	327.67589	78.31495	244.23659	9.21169	0.1017137	0.18502610	3.0500998	21	7 4.3	20.6
540829 2017 XQ_{16}	17.5	X	53.11853	327.76590	329.51642	2.17742	0.0760256	0.22805407	2.6532459	21	10 15.0	20.9
540830 2017 XW_{16}	17.5	X	296.97836	107.75698	317.11364	2.07285	0.0960331	0.22948794	2.6421825	21	10 8.4	20.6
540831 2017 XZ_{16}	18.0	X	206.77349	181.81134	37.05350	6.55776	0.0573704	0.27668801	2.3324329	21	—	—
540832 2017 XC_{17}	16.4	X	121.49310	322.99995	251.66932	10.48478	0.0185201	0.21054821	2.7983477	21	9 10.3	20.6
540833 2017 XL_{17}	17.3	X	331.61205	101.77206	269.15028	5.07566	0.0289971	0.21744116	2.7388918	21	9 19.2	21.0
540834 2017 XN_{17}	17.7	X	267.67391	61.57062	42.95753	5.39309	0.0935456	0.23269579	2.6178436	21	10 21.2	21.1
540835 2017 XO_{17}	17.2	X	25.31269	14.38383	280.47063	5.13954	0.0593287	0.20286674	2.8685482	21	8 26.7	20.9
540836 2017 XU_{17}	17.0	X	5.40204	76.80839	267.08343	4.86043	0.0236054	0.22275647	2.6951473	21	10 1.5	20.7
540837 2017 XD_{18}	17.8	X	293.37659	110.64802	322.80549	2.02727	0.1114484	0.23149124	2.6269170	21	10 12.9	21.0
540838 2017 XJ_{18}	16.9	X	95.13337	207.91356	14.45753	2.17695	0.0382984	0.19527789	2.9423929	21	8 25.6	20.9
540839 2017 XU_{18}	16.7	X	128.15765	314.40565	260.40319	7.59087	0.0505210	0.21363516	2.7713256	21	9 23.2	20.8
540840 2017 XW_{18}	17.9	X	310.55312	89.89112	11.10997	2.29442	0.1660455	0.25855951	2.4402203	21	12 27.0	19.9
540841 2017 XP_{19}	16.8	X	270.27615	44.26793	53.51542	22.71862	0.0519847	0.23260429	2.6185301	21	10 27.8	20.3
540842 2017 XV_{19}	16.9	X	327.52293	120.25085	257.86585	9.93649	0.1361498	0.22542496	2.6738357	21	9 15.7	20.0
540843 2017 XA_{20}	16.3	X	196.94824	203.16264	266.84047	9.21515	0.0775238	0.18393081	3.0621965	21	7 29.8	21.0
540844 2017 XF_{20}	17.0	X	244.08412	91.52954	313.73859	4.29910	0.1506125	0.17822448	3.1272156	21	6 25.5	21.7
540845 2017 XS_{20}	17.7	X	185.22127	336.55354	273.09156	5.82693	0.0950898	0.28770960	2.2724787	21	—	—
540846 2017 XK_{21}	16.7	X	256.72354	133.37005	263.74499	9.35416	0.0876843	0.18138532	3.0907790	21	7 6.1	21.1
540847 2017 XO_{21}	16.8	X	66.42745	221.72385	27.68021	7.35347	0.0249707	0.19533055	2.9418640	21	8 24.3	20.9
540848 2017 XT_{21}	16.8	X	213.17535	188.59920	270.20658	9.52406	0.1250745	0.18506225	3.0497026	21	7 30.1	21.6
540849 2017 XU_{21}	17.4	X	99.14515	20.96427	279.73092	6.47596	0.1195365	0.26815078	2.3816796	21	12 25.1	20.8
540850 2017 XV_{21}	17.1	X	197.95365	104.35000	33.86251	9.59903	0.0769252	0.20337867	2.8637325	21	9 12.2	21.5
540851 2017 XW_{21}	17.0	X	118.40222	312.19006	283.28815	6.54877	0.0149960	0.22380160	2.6867500	21	10 6.5	20.8
540852 2017 XR_{22}	16.1	X	271.12674	327.42748	48.05815	9.85547	0.0727466	0.17651519	3.1473714	21	6 29.0	20.6
540853 2017 XX_{22}	16.6	X	19.20534	251.93787	51.29204	11.86821	0.1363317	0.21025684	2.8009324	21	9 16.1	20.0
540854 2017 XD_{23}	17.7	X	154.17697	345.52629	271.47715	5.21990	0.1530855	0.27085942	2.3657749	21	12 24.5	21.2
540855 2017 XG_{23}	17.3	X	191.64239	310.61252	271.48404	4.31868	0.0837180	0.26603277	2.3943040	21	12 23.7	20.4
540856 2017 XL_{23}	17.7	X	114.31075	262.33684	40.98953	4.32429	0.1476572	0.28302167	2.2975039	21	—	—
540857 2017 XQ_{23}	16.9	X	290.71981	352.30644	10.29992	1.84820	0.1617679	0.18803794	3.0174429	21	6 24.6	21.1
540858 2017 XB_{24}	17.7	X	246.92561	68.15728	50.09302	5.60462	0.0982341	0.22425412	2.6831344	21	10 10.8	21.4
540859 2017 XO_{24}	16.8	X	233.93239	225.03083	246.68762	10.60689	0.0538663	0.21406312	2.7676307	21	9 14.1	20.9
540860 2017 XT_{24}	17.1	X	237.81826	205.83067	250.84778	4.76329	0.0593735	0.20583005	2.8409496	21	8 31.8	21.3
540861 2017 XW_{24}	17.6	X	122.61757	24.06869	246.87590	5.91474	0.1360539	0.26082175	2.4260897	21	12 10.9	21.4
540862 2017 XK_{25}	16.9	X	16.33113	70.65426	226.71669	1.45509	0.0669706	0.19813570	2.9140314	21	8 18.6	20.5
540863 2017 XY_{25}	16.2	X	196.88430	45.88166	57.53691	14.13630	0.0346738	0.18027881	3.1034131	21	7 29.1	20.9
540864 2017 XA_{26}	17.1	X	225.82552	72.70920	60.51221	6.99540	0.0215452	0.22561409	2.6723412	21	10 15.3	20.7
540865 2017 XG_{26}	17.2	X	354.02118	271.93964	64.95512	7.37033	0.0440329	0.20950549	2.8076251	21	9 12.2	20.9
540866 2017 XP_{26}	16.9	X	315.32423	142.27005	242.32432	5.45725	0.0614120	0.21515406	2.7582673	21	9 11.6	20.5
540867 2017 XS_{26}	16.1	X	286.41754	132.37600	244.15463	7.79035	0.0371921	0.18615083	3.0378015	21	7 23.6	20.4
540868 2017 XU_{26}	17.3	X	249.01847	19.93932	73.11165	5.61302	0.0343159	0.21425809	2.7659515	21	9 20.2	21.1
540869 2017 XY_{26}	17.9	X	148.15497	48.98084	227.37339	4.15922	0.1108128	0.28444951	2.2898090	21	—	—
540870 2017 XH_{27}	17.0	X	211.99175	28.27986	77.30583	5.72731	0.0988474	0.19053762	2.9909941	21	8 12.8	21.6
540871 2017 XN_{27}	16.7	X	242.78111	189.69273	211.56813	3.08346	0.0045836	0.17188781	3.2036077	21	7 5.4	21.1
540872 2017 XF_{28}	17.2	X	143.83939	343.08653	227.38766	4.93499	0.0150922	0.22397807	2.6853386	21	10 8.5	20.9
540873 2017 XP_{28}	16.5	X	264.11488	7.05644	68.90640	9.54119	0.0677598	0.21161742	2.7889139	21	9 14.6	20.4
540874 2017 XQ_{28}	16.8	X	257.59174	347.02857	67.16542	10.58631	0.0631207	0.19205318	2.9752380	21	8 5.7	21.1
540875 2017 XS_{28}	16.2	X	318.84476	250.59659	65.10599	14.92619	0.1291234	0.17535298	3.1612629	21	6 8.1	20.2
540876 2017 XV_{28}	16.9	X	218.01554	8.35364	77.82609	6.15370	0.1034037	0.18203954	3.0833694	21	7 24.3	21.7
540877 2017 XY_{28}	16.9	X	177.77579	79.70516	66.80836	6.68552	0.0059521	0.20053744	2.8907181	21	9 1.0	21.0
540878 2017 XE_{29}	17.3	X	30.88400	214.59704	77.42914	3.20961	0.0355244	0.20246987	2.8722954	21	9 1.4	21.1
540879 2017 XK_{29}	18.6	X	313.10173	15.06077	108.73958	1.45100	0.1633478	0.27438770	2.3454506	21	—	—
540880 2017 XM_{29}	18.0	X	249.29500	336.03975	196.13442	2.09859	0.1120277	0.26563647	2.3966847	21	12 27.7	20.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
540881 2017 XN_{29}	16.5	X	334.23269	231.05398	86.46914	3.33932	0.1518982	0.18983508	2.9983690	21	7 4.8	20.0
540882 2017 XW_{29}	17.3	X	275.51377	213.66345	196.77544	1.64206	0.0621943	0.20251703	2.8718495	21	8 21.2	21.2
540883 2017 XX_{29}	17.5	X	176.37767	19.83114	175.22330	1.05555	0.0494179	0.23378310	2.6097203	21	10 30.5	21.2
540884 2017 XA_{30}	17.8	X	225.74629	321.54302	206.97758	2.69732	0.1059201	0.24523099	2.5278569	21	11 19.0	21.3
540885 2017 XB_{30}	17.7	X	263.76637	65.88742	76.86655	6.15594	0.1389465	0.25163748	2.4847679	21	12 1.9	20.7
540886 2017 XF_{30}	16.2	X	315.71158	250.06828	65.49924	9.48311	0.1741087	0.17575983	3.1563826	21	5 28.4	20.0
540887 2017 XR_{30}	18.0	X	48.56903	185.61008	173.96404	0.87222	0.2070538	0.27819102	2.3240242	21	—	—
540888 2017 XY_{30}	18.0	X	231.84241	111.24605	79.89154	2.08726	0.1164451	0.26692712	2.3889529	21	12 28.6	21.0
540889 2017 XA_{31}	17.1	X	1.81634	250.93778	76.53602	5.35268	0.0723557	0.21020231	2.8014168	21	9 11.3	20.6
540890 2017 XD_{31}	16.7	X	262.52681	336.49592	70.00929	9.87789	0.1292366	0.19074603	2.9888151	21	7 21.8	21.1
540891 2017 XL_{31}	17.8	X	125.12701	47.10153	231.64820	6.09304	0.1311817	0.26785495	2.3834329	21	12 23.6	21.4
540892 2017 XU_{31}	17.2	X	219.29999	237.01230	235.73238	9.33262	0.0197240	0.20422122	2.8558506	21	9 1.3	21.4
540893 2017 XZ_{31}	17.7	X	239.07137	335.78106	154.66664	1.76451	0.1543065	0.22274239	2.6952609	21	10 7.8	21.5
540894 2017 XA_{32}	17.0	X	268.27836	208.44234	191.25288	2.42349	0.0953772	0.18999584	2.9966774	21	7 22.9	21.3
540895 2017 XC_{32}	16.5	X	125.22286	82.51543	70.28303	10.99165	0.0437820	0.16115042	3.3443760	21	7 3.9	21.4
540896 2017 XF_{32}	17.1	X	249.63629	215.02446	242.20586	2.88876	0.0616609	0.21441932	2.7645648	21	9 17.8	20.9
540897 2017 XJ_{32}	17.3	X	234.82636	200.97229	246.95903	6.95554	0.0534242	0.19640731	2.9311022	21	8 16.2	21.6
540898 2017 XL_{32}	17.0	X	5.09642	84.67247	246.12120	9.85396	0.2079357	0.22649746	2.6653883	21	9 27.7	19.7
540899 2017 XT_{32}	16.1	X	64.70302	345.66164	240.80741	1.33357	0.0077770	0.17459474	3.1704090	21	7 16.4	20.4
540900 2017 XX_{32}	16.2	X	325.86928	61.34998	252.54456	4.01667	0.1384130	0.17802434	3.1295588	21	6 16.6	19.9
540901 2017 XU_{33}	16.6	X	156.28660	65.87150	72.42266	2.89986	0.0435671	0.17333587	3.1857407	21	7 22.6	21.3
540902 2017 XZ_{33}	16.2	X	278.44938	303.20080	62.53647	10.16289	0.0405915	0.17187392	3.2037804	21	6 30.6	20.7
540903 2017 XK_{34}	16.6	X	26.67287	190.14717	69.40519	3.54910	0.0224101	0.17116605	3.2126073	21	7 11.1	21.0
540904 2017 XM_{34}	16.7	X	14.65516	233.02959	75.88315	3.12481	0.0521655	0.20283636	2.8688346	21	9 2.2	20.4
540905 2017 XV_{34}	17.3	X	96.23911	227.97281	63.29165	9.19998	0.2018917	0.26152044	2.4217666	21	12 14.4	21.1
540906 2017 XZ_{34}	18.2	X	257.44059	264.46063	307.92292	1.94241	0.0941362	0.30528973	2.1843786	21	—	—
540907 2017 XD_{35}	17.1	X	7.17607	286.52930	46.28900	6.45728	0.0522348	0.21558574	2.7545840	21	9 25.9	20.6
540908 2017 XK_{35}	16.5	X	277.75872	134.56812	257.10376	9.06223	0.0363962	0.18915680	3.0055323	21	7 31.3	20.8
540909 2017 XL_{35}	16.7	X	183.11301	82.96960	57.47003	16.10661	0.2289043	0.17936754	3.1139154	21	8 28.8	22.3
540910 2017 XU_{35}	16.5	X	155.54377	264.19238	257.91690	3.97990	0.0998609	0.18517664	3.0484466	21	8 20.8	21.3
540911 2017 XE_{36}	17.1	X	56.36340	20.94688	263.16278	2.19785	0.0591138	0.21487112	2.7606881	21	9 27.6	20.8
540912 2017 XU_{36}	17.0	X	144.73427	171.26904	54.61073	4.20626	0.0422024	0.23304499	2.6152279	21	11 2.1	20.5
540913 2017 XY_{36}	17.5	X	207.68370	148.47804	34.87425	2.74539	0.1900775	0.23431337	2.6057815	21	11 6.7	21.5
540914 2017 XG_{37}	17.1	X	279.65376	42.44958	47.20220	4.95961	0.0154960	0.23194760	2.6234702	21	10 28.6	20.5
540915 2017 XH_{37}	17.2	X	258.28904	143.80924	287.56305	4.15988	0.1278633	0.20160852	2.8804707	21	8 15.7	21.2
540916 2017 XU_{37}	16.8	X	12.27072	310.01344	38.25432	5.74306	0.2198673	0.24336196	2.5407831	21	11 16.9	19.3
540917 2017 XF_{38}	16.3	X	335.09503	57.78370	257.54629	10.21495	0.1345236	0.18403592	3.0610304	21	7 3.8	20.0
540918 2017 XH_{38}	17.8	X	185.29822	15.99006	270.17393	5.16282	0.0265820	0.31121488	2.1565647	21	—	—
540919 2017 XJ_{38}	18.4	X	133.66381	346.62923	308.09673	2.30220	0.0572219	0.28101323	2.3084380	21	—	—
540920 2017 XO_{38}	17.2	X	258.65680	193.04840	269.32287	5.79177	0.0533819	0.22275525	2.6951571	21	10 6.9	20.9
540921 2017 XP_{38}	17.2	X	352.85368	307.04547	36.49009	4.50541	0.0803429	0.21305333	2.7763688	21	9 18.5	20.5
540922 2017 XS_{38}	16.4	X	177.50216	68.43788	53.00908	9.93908	0.0469752	0.17409585	3.1764627	21	7 28.0	21.2
540923 2017 XV_{38}	15.9	X	359.84907	36.21943	259.70774	9.59402	0.0853780	0.18149233	3.0895640	21	7 20.2	19.8
540924 2017 XA_{39}	17.0	X	257.81836	46.28299	51.63238	7.34752	0.0093455	0.22045932	2.7138368	21	10 11.8	20.7
540925 2017 XE_{39}	16.0	X	39.91520	350.11600	263.87119	7.80977	0.0233069	0.17396457	3.1780607	21	7 20.0	20.4
540926 2017 XF_{39}	16.7	X	78.10236	250.19271	44.75373	4.86913	0.1362816	0.24355860	2.5394153	21	11 22.8	20.2
540927 2017 XS_{39}	16.8	X	174.14649	285.69909	260.12704	7.28640	0.1486259	0.21416615	2.7667431	21	10 7.4	21.4
540928 2017 XC_{40}	17.2	X	23.01904	270.19997	49.11428	6.55105	0.1229437	0.22187885	2.7022495	21	10 9.9	20.4
540929 2017 XE_{40}	16.3	X	50.21296	242.79547	58.59316	8.74355	0.2379064	0.23766936	2.5811936	21	11 12.8	19.6
540930 2017 XN_{40}	15.3	X	29.77217	213.86417	354.07708	1.72596	0.1178468	0.12600176	3.9405027	21	5 18.7	20.2
540931 2017 XO_{40}	16.6	X	7.95561	94.63219	251.87102	11.98935	0.1122556	0.22994318	2.6386940	21	10 16.6	19.8
540932 2017 XT_{40}	16.3	X	192.09600	41.18778	62.20417	10.75939	0.0702036	0.17172666	3.2056115	21	7 20.3	21.2
540933 2017 XZ_{40}	17.2	X	79.25556	247.19835	49.94096	3.31356	0.0822450	0.24303527	2.5430595	21	11 20.7	20.8
540934 2017 XF_{41}	17.5	X	218.58436	117.80123	25.02147	2.16481	0.0314515	0.22309109	2.6924516	21	10 14.4	21.0
540935 2017 XK_{41}	16.0	X	235.59527	127.14246	258.87965	8.51318	0.0541142	0.15269198	3.4667716	21	6 2.6	21.1
540936 2017 XL_{41}	16.7	X	142.25366	237.69633	279.24839	2.69046	0.0488049	0.17353369	3.1833191	21	7 29.2	21.3
540937 2017 XB_{42}	17.9	X	257.29667	76.04042	58.02369	5.42223	0.1150874	0.23926940	2.5696735	21	11 12.3	20.9
540938 2017 XT_{42}	17.1	X	125.11642	189.60853	65.44513	3.71665	0.1461890	0.24428182	2.5344008	21	11 21.9	21.2
540939 2017 XW_{42}	16.8	X	175.70216	83.73672	66.27488	25.93400	0.2344158	0.17985617	3.1082730	21	9 9.3	22.7
540940 2017 XA_{43}	17.0	X	279.97931	6.89364	58.08615	4.90367	0.0858164	0.21360525	2.7715843	21	9 16.3	20.6
540941 2017 XG_{43}	17.1	X	227.01759	100.43531	63.38131	13.55761	0.1494580	0.23616362	2.5921535	21	11 9.3	20.9
540942 2017 XN_{43}	16.0	X	157.23962	272.39286	243.70249	12.29014	0.0908695	0.18169972	3.0872126	21	8 11.2	21.0
540943 2017 XR_{43}	17.1	X	318.01626	139.35638	246.20605	1.63001	0.0517510	0.21538878	2.7562631	21	9 19.8	20.6
540944 2017 XT_{43}	17.3	X	238.67339	50.78383	60.49485	5.64274	0.1212985	0.21029136	2.8006259	21	9 18.4	21.4
540945 2017 XU_{43}	17.8	X	244.32968	56.51491	85.01026	3.01192	0.1459274	0.23350424	2.6117977	21	10 31.2	21.4
540946 2017 XX_{43}	16.6	X	161.25878	71.40752	68.02422	12.76006	0.0533984	0.17553012	3.1591357	21	8 1.7	21.5
540947 2017 XA_{44}	16.5	X	342.70676	217.21357	84.99962	1.32331	0.1255522	0.17810855	3.1285724	21	6 30.9	20.2
540948 2017 XM_{44}	17.0	X	46.58641	217.02843	79.84230	3.53964	0.0551556	0.21640832	2.7475994	21	10 3.8	20.5
540949 2017 XS_{44}	17.1	X	84.50879	220.21162	66.23142	8.65619	0.1591104	0.24325171	2.5415507	21	11 22.2	20.7
540950 2017 XW_{44}	16.8	X	80.70730	140.04176	74.83164	12.32391	0.0433301	0.17455793	3.1708546	21	7 29.9	21.4
540951 2017 XB_{45}	16.9	X	94.08357	100.62535	111.04159	3.47679	0.0386714	0.18197269	3.0841245	21	8 9.7	21.2
540952 2017 XD_{45}	17.5	X	148.94434	60.37880	158.53656	2.23889	0.0262873	0.23050806	2.6343813	21	10 28.9	21.1
540953 2017 XK_{45}	17.0	X	30.51481	231.39918	88.57744	2.54136	0.0989776	0.22626063	2.6672479	21	10 18.7	20.2
540954 2017 XW_{45}	16.2	X	356.45874	80.50128	230.37324	9.60319	0.1140115	0.19419154	2.9533563	21	8 3.1	19.9
540955 2017 XZ_{45}	17.6	X	79.51436	90.77915	221.79092	3.77195	0.2128212	0.26735228	2.3864195	21	12 27.3	21.3
540956 2017 XB_{46}	16.4	X	158.01154	72.28953	79.80983	6.62827	0.0845966	0.17923525	3.1154475	21	8 14.2	21.2
540957 2017 XK_{46}	16.6	X	240.22404	315.67765	90.36611	6.56212	0.1680769	0.17299856	3.1898803	21	6 20.7	21.6
540958 2017 XQ_{46}	16.5	X	231.18324	2.15458	77.04762	12.51244	0.0938572	0.18491554	3.0513155	21	8 1.4	21.2
540959 2017 XU_{46}	17.4	X	43.49308	204.55853	108.06005	3.13548	0.0678567	0.22761192	2.6566808	21	10 23.3	20.7
540960 2017 XV_{46}	16.7	X	329.88761	235.84013	84.20702	7.63696	0.0372938	0.17484792	3.1673477	21	7 11.6	21.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
540961 2017 XX_{46}	15.8	X	71.90615	163.36318	69.32353	16.92753	0.1045818	0.18054772	3.1003308	21	8 24.9	20.5
540962 2017 XE_{47}	16.8	X	124.37623	171.92053	73.11268	14.96496	0.0761170	0.23232026	2.6206639	21	11 7.9	20.7
540963 2017 XJ_{47}	17.4	X	161.42776	356.36257	193.91351	3.39363	0.0334455	0.21622968	2.7491125	21	10 4.7	21.1
540964 2017 XK_{47}	18.0	X	157.54336	178.47949	88.95513	7.13389	0.1525632	0.27995590	2.3142466	21	—	—
540965 2017 XX_{47}	17.0	X	1.77363	271.26412	78.11025	11.72676	0.0758716	0.22421590	2.6834393	21	10 16.4	20.4
540966 2017 XL_{48}	16.6	X	150.88629	95.46676	71.58887	16.58646	0.2072988	0.17437977	3.1730140	21	9 3.8	22.3
540967 2017 XO_{48}	17.7	X	68.31830	134.72697	170.90040	2.47153	0.1124825	0.24381642	2.5376249	21	11 23.4	21.1
540968 2017 XT_{48}	18.4	X	351.72728	8.29819	79.46139	7.00715	0.0327904	0.28589017	2.2821100	21	—	—
540969 2017 XU_{48}	17.2	X	21.36856	111.79894	182.20599	1.72734	0.0414582	0.19561028	2.9390587	21	8 19.5	21.0
540970 2017 XZ_{48}	17.4	X	278.47908	242.36854	172.87605	1.99985	0.0537877	0.20696572	2.8305475	21	9 2.5	21.3
540971 2017 XD_{49}	16.6	X	2.16577	238.05968	81.75511	6.09545	0.1563314	0.21116703	2.7928781	21	9 6.4	19.6
540972 2017 XJ_{49}	17.6	X	240.66915	40.17305	90.35754	3.94518	0.0554287	0.23084518	2.6318159	21	10 25.7	21.1
540973 2017 XR_{49}	18.0	X	224.26172	21.68150	168.02937	1.51212	0.1303322	0.25772526	2.4454834	21	12 13.2	21.1
540974 2017 XS_{49}	17.6	X	163.69791	193.77195	82.03326	3.43510	0.1423625	0.29365392	2.2417070	21	—	—
540975 2017 XB_{50}	17.3	X	304.67127	203.33057	216.22839	2.09167	0.0728729	0.22950201	2.6420745	21	10 16.5	20.4
540976 2017 XF_{50}	16.8	X	329.83254	304.36980	80.80185	7.22407	0.0495073	0.22458198	2.6805224	21	10 12.9	20.2
540977 2017 XR_{50}	17.0	X	262.17841	189.45157	271.75576	7.88734	0.2114433	0.22157035	2.7047572	21	9 14.5	20.9
540978 2017 XU_{50}	17.2	X	346.50597	13.12454	340.98098	4.79626	0.0738579	0.22109421	2.7086391	21	9 20.8	20.5
540979 2017 XD_{51}	17.3	X	48.40723	336.22414	334.57960	2.46720	0.1377765	0.24139670	2.5545545	21	11 6.9	20.6
540980 2017 XG_{51}	16.8	X	274.85047	31.91966	9.77473	1.99181	0.0457663	0.19787272	2.9166127	21	8 12.2	20.8
540981 2017 XJ_{51}	18.2	X	327.39933	53.57427	12.68485	2.85115	0.1775767	0.25283282	2.4769301	21	12 8.1	20.3
540982 2017 XX_{51}	16.3	X	326.46786	80.18561	241.97815	8.78383	0.1214115	0.18731533	3.0251982	21	6 29.9	20.0
540983 2017 XJ_{52}	16.8	X	333.79652	98.93564	218.01644	1.93599	0.0975558	0.18694603	3.0291809	21	7 7.8	20.4
540984 2017 XN_{52}	16.4	X	42.52734	224.38730	65.59076	5.13760	0.1347326	0.21911032	2.7249644	21	10 1.9	19.8
540985 2017 XZ_{52}	17.2	X	98.73286	32.34456	251.38081	2.71749	0.1719913	0.25771326	2.4455593	21	12 5.5	20.9
540986 2017 XX_{53}	17.9	X	131.33108	280.53502	40.58013	3.92109	0.1541677	0.30990240	2.1626493	21	—	—
540987 2017 XC_{54}	16.7	X	224.26087	42.70705	52.78360	4.77993	0.1254287	0.19055748	2.9907863	21	8 10.9	21.3
540988 2017 XE_{54}	16.8	X	206.76013	40.59263	62.05257	9.87353	0.1031369	0.18420100	3.0592014	21	8 4.0	21.6
540989 2017 XQ_{54}	16.4	X	123.24247	300.03761	235.60979	9.81248	0.0088381	0.17999693	3.1066523	21	7 23.7	21.0
540990 2017 XW_{54}	17.3	X	34.03622	67.92670	260.04401	3.02717	0.1306669	0.23951146	2.5679418	21	11 8.8	20.4
540991 2017 XK_{55}	16.8	X	241.10070	163.84543	267.55154	2.78017	0.0347797	0.18853713	3.0121144	21	8 7.0	21.0
540992 2017 XN_{55}	17.4	X	277.36326	36.40821	54.25504	6.42449	0.0730916	0.22855392	2.6493760	21	10 19.8	20.7
540993 2017 XM_{56}	16.4	X	38.21196	177.59127	79.93676	5.83839	0.0668636	0.17709679	3.1404768	21	7 29.8	20.5
540994 2017 XS_{56}	17.2	X	61.26773	182.16833	125.34220	1.94260	0.1759248	0.24551442	2.5259110	21	11 26.0	20.6
540995 2017 XT_{56}	18.2	X	281.33125	262.88891	225.64104	5.38443	0.0565357	0.25817375	2.4426505	21	12 21.6	21.2
540996 2017 XW_{56}	16.9	X	29.25339	236.54270	88.86680	6.15492	0.0566608	0.22509408	2.6764554	21	10 19.9	20.4
540997 2017 XH_{57}	17.0	X	289.74556	130.14888	265.58562	0.95634	0.0734504	0.20273706	2.8697713	21	8 19.9	20.8
540998 2017 XN_{57}	17.9	X	13.06082	217.74831	158.54392	3.00109	0.1963342	0.25836753	2.4414289	21	12 28.1	20.6
540999 2017 XO_{57}	17.7	X	203.93140	67.09506	120.67850	3.29773	0.0268127	0.24663675	2.5182424	21	11 27.9	21.0
541000 2017 XP_{57}	16.4	X	305.99681	105.61931	234.47951	14.68439	0.0829765	0.17472355	3.1688505	21	6 26.7	20.8
541001 2017 XF_{58}	17.8	X	352.09256	344.87370	89.80811	6.47955	0.0565409	0.27455747	2.3444836	21	—	—
541002 2017 XU_{58}	18.8	X	129.20155	272.86669	58.01650	2.14158	0.1416089	0.31064964	2.1591798	21	—	—
541003 2017 XV_{58}	16.6	X	335.03202	100.07672	273.23535	13.22506	0.1953210	0.23927346	2.5696444	21	9 21.0	19.3
541004 2017 XX_{58}	17.2	X	277.18370	220.73916	236.35377	11.74059	0.1304100	0.22902729	2.6457241	21	10 15.3	20.5
541005 2017 XZ_{58}	16.8	X	27.71162	347.95150	35.14186	25.83939	0.2550334	0.28674321	2.2775816	21	—	—
541006 2017 XH_{59}	16.6	X	82.32190	3.85943	271.88724	12.98881	0.1426127	0.23506923	2.6001926	21	10 30.8	20.6
541007 2017 XJ_{59}	16.6	X	200.62848	172.76177	294.10908	8.50480	0.0358066	0.18489845	3.0515035	21	8 2.6	21.1
541008 2017 XS_{62}	16.5	X	198.24959	300.05518	150.54348	9.71875	0.0454803	0.17228305	3.1987062	21	7 9.9	21.3
541009 2017 XE_{63}	16.9	X	345.56155	326.72688	107.94304	22.89902	0.0768717	0.23716649	2.5848410	21	—	—
541010 2017 XK_{63}	16.0	X	217.27328	257.28808	155.19650	8.93133	0.1112690	0.15950789	3.3672959	21	6 11.5	21.3
541011 2017 YJ_{2}	16.2	X	315.05536	185.57580	177.29578	6.17853	0.0870052	0.19797022	2.9156551	21	8 10.0	19.9
541012 2017 YP_{2}	16.1	X	237.95375	340.48574	99.27012	12.35009	0.0529010	0.19084892	2.9877407	21	8 15.2	20.5
541013 2017 YQ_{2}	17.2	X	292.47636	313.41175	152.87419	12.25246	0.1430122	0.24272371	2.5452351	21	11 28.8	20.2
541014 2017 YR_{2}	16.1	X	185.51509	279.74771	225.58622	24.23223	0.2470738	0.17544817	3.1601194	21	8 19.7	22.1
541015 2017 YT_{2}	16.9	X	281.95468	293.50177	138.79891	6.92079	0.1028386	0.21919214	2.7242862	21	9 26.8	20.3
541016 2017 YA_{5}	16.2	X	17.40022	312.60243	77.59793	22.69482	0.0284121	0.23716051	2.5848844	21	12 21.6	19.7
541017 2017 YX_{7}	15.8	X	252.25259	228.61582	157.08796	28.20385	0.1609025	0.18388593	3.0626948	21	6 12.5	21.1
541018 2017 YY_{7}	16.4	X	26.64723	281.02332	108.42240	24.62071	0.2934682	0.24218160	2.5490320	21	—	—
541019 2017 YB_{9}	15.8	X	253.94744	297.71542	93.41357	17.55224	0.2397506	0.17476801	3.1683131	21	6 10.0	20.9
541020 2017 YJ_{9}	16.6	X	268.12108	22.75732	81.84426	5.65282	0.0620849	0.20917892	2.8105465	21	10 24.6	20.3
541021 2017 YK_{9}	17.2	X	353.52954	275.90648	128.22449	5.62406	0.2183453	0.25649672	2.4532860	21	—	—
541022 2017 YD_{11}	16.1	X	21.26290	194.33944	86.13644	17.11388	0.1446800	0.18454025	3.0554509	21	8 15.2	20.0
541023 2017 YL_{11}	17.4	X	85.71676	230.49957	121.44228	7.09340	0.1545123	0.29028818	2.2590013	21	—	—
541024 2017 YN_{14}	16.8	X	299.59166	250.74023	174.24025	13.16613	0.2444249	0.22878592	2.6475847	21	9 22.8	19.6
541025 2017 YO_{14}	16.4	X	344.92188	163.41239	208.11522	12.60799	0.1621474	0.23794520	2.5791984	21	10 19.1	18.8
541026 2017 YE_{15}	15.3	X	281.78468	266.19645	104.04903	26.64397	0.2623563	0.17826850	3.1267007	21	6 12.5	20.1
541027 2017 YQ_{15}	16.0	X	156.73426	357.67722	257.31326	12.71721	0.0802815	0.24537718	2.5268528	21	12 22.5	19.6
541028 2017 YU_{15}	16.9	X	346.49987	206.70837	189.65064	3.52361	0.1780372	0.24131410	2.5551374	21	12 1.4	19.3
541029 2018 AB_{1}	15.7	X	178.04712	289.33480	275.63260	25.59712	0.2284673	0.23104925	2.6302660	21	10 30.2	20.7
541030 2018 AM_{5}	17.2	X	327.89038	268.86646	166.16779	8.81588	0.0983632	0.23081676	2.6320319	21	12 14.2	20.3
541031 2018 AR_{5}	16.1	X	184.39804	336.61453	265.50045	12.94464	0.0575818	0.23759128	2.5817591	21	—	—
541032 2018 AY_{8}	16.2	X	23.30054	253.76049	106.04047	13.32574	0.1264363	0.22445731	2.6815149	21	12 4.6	19.6
541033 2018 AM_{9}	17.4	X	188.07738	322.60554	333.94054	5.30018	0.1696525	0.28841747	2.2687589	21	—	—
541034 2018 AE_{16}	15.8	X	88.39047	316.54906	315.48835	20.32520	0.2947218	0.18144112	3.0901454	21	11 5.9	21.3
541035 2018 AE_{17}	16.6	X	338.35691	314.34955	88.71084	5.75368	0.0639008	0.21314863	2.7755413	21	11 14.0	20.0
541036 2018 AH_{17}	16.6	X	103.23806	316.83247	336.62615	7.77235	0.1298904	0.21119341	2.7926455	21	12 10.9	21.1
541037 2018 BE	15.5	X	62.90577	176.99738	92.59547	25.63918	0.0549216	0.21308460	2.7760973	21	10 2.4	19.9
541038 2018 BW_{8}	16.0	X	42.94366	298.17917	4.46743	22.08343	0.0706133	0.17461196	3.1702005	21	9 30.5	20.3
541039 2018 BG_{9}	15.5	X	23.60079	239.89358	86.08961	11.89686	0.1118594	0.18489495	3.0515419	21	10 16.7	19.6
541040 2018 BS_{9}	15.7	X	224.68102	207.57007	270.94484	7.93701	0.0172147	0.17643361	3.1483415	21	9 13.4	20.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
541041 2018 BW_9	16.8	X	199.69007	13.53270	171.68161	6.27548	0.0271574	0.20684125	2.8316828	21	11 13.7	20.8
541042 2018 BN_{10}	15.6	X	344.18502	286.51379	121.95717	22.87534	0.0502566	0.22307838	2.6925538	21	12 5.7	19.4
541043 2018 BQ_{10}	15.5	X	88.56284	159.93346	105.97358	16.96382	0.0661512	0.17273847	3.1930815	21	10 20.5	20.4
541044 2018 BN_{11}	16.6	X	328.67099	78.99749	293.99648	8.44034	0.1319244	0.18639277	3.0351722	21	9 7.3	20.3
541045 2018 BN_{12}	16.8	X	116.54413	209.83840	57.78046	1.72504	0.1056075	0.17870517	3.1216051	21	11 17.8	21.6
541046 2018 CF_4	16.1	X	170.73135	299.52040	297.79408	10.50161	0.0636368	0.21477432	2.7615175	21	12 11.5	20.3
541047 2018 CH_4	16.4	X	304.54526	167.83175	304.05970	11.46068	0.1099826	0.22684364	2.6626760	21	12 23.8	19.4
541048 2018 CX_4	17.7	X	20.20037	198.37479	245.41423	0.90200	0.1580944	0.27338946	2.3511565	21	—	—
541049 2018 CD_5	16.5	X	297.68650	137.93114	348.54866	12.86646	0.1187993	0.22483466	2.6785137	21	12 31.9	19.8
541050 2018 CF_5	16.8	X	249.55150	90.13213	114.40502	13.62658	0.2032522	0.22942738	2.6426474	21	—	—
541051 2018 CP_5	16.2	X	326.03039	289.76630	118.23291	17.07236	0.2214934	0.22255418	2.6967802	21	11 6.2	19.0
541052 2018 CS_5	15.6	X	346.34345	294.64828	106.61159	28.30825	0.1187433	0.22434999	2.6823700	21	12 5.6	19.1
541053 2018 CU_5	17.0	X	279.63390	18.41614	111.42816	15.22830	0.1990905	0.22589392	2.6701338	21	11 28.2	20.3
541054 2018 CB_6	15.4	X	199.94862	39.69317	110.89189	28.05862	0.1492627	0.17361291	3.1823507	21	9 29.4	21.0
541055 2018 CH_6	16.6	X	0.72579	200.59107	201.87117	3.54769	0.2475271	0.24340438	2.5404879	21	—	—
541056 2018 CQ_6	16.5	X	285.28117	147.35295	320.30370	28.47702	0.1796284	0.21678828	2.7443880	21	10 16.5	20.6
541057 2018 CD_7	15.4	X	317.82432	291.52016	92.89878	10.49984	0.0752471	0.17859053	3.1229410	21	9 18.5	19.6
541058 2018 CM_7	16.2	X	234.88937	66.61282	70.47035	10.86602	0.1132115	0.19090078	2.9871996	21	10 17.2	20.7
541059 2018 CQ_8	17.2	X	278.07610	58.88443	81.20750	9.95620	0.2307075	0.22298113	2.6933366	21	11 30.3	20.3
541060 2018 CW_8	17.4	X	152.62135	74.28831	349.01440	18.64206	0.0898251	0.35728696	1.9669407	21	3 25.6	19.7
541061 2018 CK_{11}	16.1	X	248.59088	53.10178	35.45405	5.14169	0.1477278	0.17011031	3.2258855	21	8 25.4	20.9
541062 2018 CL_{11}	16.1	X	335.35465	282.62616	115.08864	12.15317	0.0996153	0.19766435	2.9186621	21	11 3.7	19.8
541063 2018 CN_{12}	16.6	X	333.36572	156.32810	287.20736	11.96195	0.2589104	0.24302699	2.5431172	21	—	—
541064 2018 CP_{15}	16.1	X	223.93244	73.57089	74.96450	10.02749	0.1386029	0.18150143	3.0894608	21	10 15.4	20.9
541065 2018 FU_5	17.1	X	50.87450	283.75882	146.07347	5.21797	0.0841335	0.26123247	2.4235460	21	—	—
541066 2018 HX	17.4	X	93.35372	95.44730	107.11178	22.76354	0.0825431	0.37994466	1.8879442	21	8 15.3	19.6
541067 2018 LX_4	18.7	X	275.19737	324.38162	2.46741	14.15074	0.3596508	0.26140970	2.4224505	21	3 24.5	22.9
541068 2018 NP	14.7	X	234.82534	359.54882	274.60496	28.65997	0.1751796	0.17795458	3.1303767	21	1 8.2	20.0
541069 2018 NY_3	15.5	X	221.62714	9.75899	300.48988	26.90503	0.1512776	0.16970917	3.2309669	21	2 6.0	20.9
541070 2018 NV_{14}	16.6	X	308.46768	329.08060	294.10924	14.08182	0.0995834	0.23895119	2.5719543	21	3 6.2	20.4
541071 2018 NB_{15}	18.4	X	325.29740	262.17940	54.78246	7.25490	0.2988685	0.30267968	2.1969181	21	5 15.3	20.2
541072 2018 OE_1	17.3	X	279.47607	287.94931	4.59982	15.58968	0.2441896	0.25754105	2.4466494	21	3 1.7	21.2
541073 2018 PK_{23}	16.3	X	224.41933	26.27182	324.54187	11.58838	0.4000370	0.21465211	2.7625656	21	3 17.8	21.8
541074 2018 PE_{26}	15.8	X	219.89807	30.65818	270.85489	14.53894	0.2311262	0.19165618	2.9793453	21	1 24.3	21.2
541075 2018 PG_{26}	15.1	X	221.50611	33.16141	255.71860	27.22692	0.1522906	0.17797010	3.1301947	21	1 10.9	20.5
541076 2018 PH_{26}	16.3	X	188.33229	117.56135	204.06913	15.82149	0.2428383	0.17390197	3.1788232	21	1 25.9	22.1
541077 2018 QX_1	16.6	X	314.79951	328.80587	296.12120	13.31403	0.1187506	0.23614170	2.5923140	21	3 14.6	20.3
541078 2018 QS_2	17.0	X	275.89818	32.13436	277.44051	14.32236	0.1823558	0.24390173	2.5370331	21	3 14.6	21.2
541079 2018 QF_4	16.2	X	275.10798	44.60304	237.33355	12.42086	0.0340598	0.21828133	2.7318593	21	3 2.5	20.3
541080 2018 QZ_4	15.8	X	181.70390	68.20920	250.39704	16.41138	0.2121735	0.16933037	3.2357837	21	1 17.1	21.5
541081 2018 QB_5	15.4	X	160.68434	112.96951	260.98010	25.03086	0.0964182	0.17594064	3.1542196	21	2 15.1	20.7
541082 2018 QC_5	17.4	X	232.04814	88.86136	235.78863	16.76846	0.3306835	0.21445862	2.7642270	21	2 19.8	22.9
541083 2018 QC_6	16.2	X	199.92555	116.12859	214.47081	10.55937	0.1405669	0.18343200	3.0677454	21	2 11.4	21.4
541084 2018 QG_6	18.0	X	295.79381	49.83293	294.16174	5.79688	0.1604146	0.28570753	2.2830824	21	6 2.3	20.7
541085 2018 QH_6	18.0	X	298.68397	100.07711	203.83613	20.93762	0.2674783	0.27033606	2.3688273	21	3 24.4	21.5
541086 2018 QQ_6	16.6	X	267.13787	2.29499	312.93252	12.74936	0.2528945	0.23674832	2.5878839	21	3 10.0	21.0
541087 2018 QV_6	16.8	X	192.47083	315.01856	41.24648	8.10211	0.2685466	0.19170264	2.9788638	21	3 14.5	22.2
541088 2018 QW_6	16.2	X	187.33520	343.46940	359.20802	24.44291	0.1836953	0.17670849	3.1450757	21	2 27.2	21.6
541089 2018 QZ_6	17.0	X	255.53987	219.30629	99.83387	13.68282	0.2963038	0.22916653	2.6446523	21	3 14.0	21.8
541090 2018 RT	17.2	X	224.53310	141.21572	261.86259	4.27613	0.3175780	0.23525838	2.5987987	21	5 23.2	22.0
541091 2018 RG_1	18.4	X	274.04061	88.78433	283.42029	1.37637	0.2804475	0.27299600	2.3534151	21	5 27.6	21.6
541092 2018 RT_2	16.8	X	245.78255	80.94333	281.52759	12.29799	0.2754856	0.23881117	2.5729596	21	4 17.0	21.4
541093 2018 RJ_4	17.5	X	262.80792	226.42704	163.03872	23.64977	0.3353402	0.26350741	2.4095771	21	6 6.3	21.9
541094 2018 RX_4	17.5	X	106.62540	345.28698	275.70125	18.10840	0.0527196	0.36866364	1.9262642	21	11 23.4	19.8
541095 2018 RE_9	17.3	X	180.63329	2.79075	37.21096	6.92919	0.0588708	0.21786900	2.7353050	21	4 15.7	21.4
541096 2018 RS_9	18.2	X	310.99501	187.68307	134.90487	2.77675	0.2210025	0.28793558	2.2712895	21	5 15.7	20.7
541097 2018 RU_9	17.5	X	268.28794	350.17815	27.43095	7.49569	0.1259260	0.28083282	2.3094265	21	6 18.1	20.5
541098 2018 RW_9	18.4	X	69.32307	303.67147	9.89094	20.34015	0.0588489	0.38283982	1.8784140	21	12 26.2	21.0
541099 2018 RY_9	17.1	X	290.00476	284.57972	34.26156	9.65268	0.1742882	0.25673587	2.4517622	21	4 20.3	20.3
541100 2018 RQ_{10}	17.1	X	243.66602	92.15204	223.39406	11.86565	0.2129168	0.21837230	2.7311005	21	2 24.1	22.0
541101 2018 RF_{11}	17.7	X	244.10969	119.82215	237.52664	11.79731	0.2013203	0.24355531	2.5394382	21	4 16.9	21.8
541102 2018 RG_{11}	16.4	X	200.08150	102.07652	221.52633	15.24630	0.2518516	0.18103905	3.0947190	21	2 3.5	22.2
541103 2018 RH_{11}	15.4	X	179.99828	73.24708	272.04345	14.39611	0.0391207	0.17180388	3.2046510	21	2 6.0	20.3
541104 2018 RN_{12}	17.0	X	316.43058	190.33607	110.00569	8.14152	0.1214838	0.26946478	2.3739308	21	5 12.6	19.8
541105 2018 RG_{13}	17.7	X	217.61121	214.67534	158.75911	8.64057	0.3128611	0.22383475	2.6864847	21	4 16.6	22.7
541106 2018 RL_{13}	17.8	X	243.84465	199.90000	153.15875	4.83728	0.2371026	0.23954757	2.5676838	21	4 13.0	22.1
541107 2018 RZ_{13}	16.9	X	184.09318	47.19915	342.82828	8.54280	0.1708295	0.20937865	2.8087589	21	4 7.0	21.5
541108 2018 RH_{14}	16.6	X	167.74586	23.51234	352.74766	10.99871	0.1408942	0.18275914	3.0752704	21	3 11.5	21.4
541109 2018 RM_{14}	18.0	X	281.21287	186.82700	143.77338	3.98693	0.2435267	0.26202929	2.4186303	21	4 17.2	21.4
541110 2018 RN_{14}	17.0	X	244.29749	29.40193	356.85292	11.32168	0.2653956	0.25722518	2.4486520	21	5 16.4	21.2
541111 2018 RQ_{14}	17.9	X	312.48738	6.17104	294.30691	3.70800	0.2436480	0.27480279	2.3430881	21	4 9.5	20.7
541112 2018 RS_{14}	16.0	X	201.82892	142.88659	179.36140	17.80732	0.1872177	0.17676146	3.1444474	21	2 5.7	21.5
541113 2018 RZ_{14}	16.0	X	181.65027	155.95719	190.25900	16.35884	0.0910297	0.17387411	3.1791628	21	2 12.8	21.2
541114 2018 RB_{15}	17.7	X	302.02616	1.69119	311.72744	6.07847	0.2181710	0.27108517	2.3644613	21	4 16.6	20.7
541115 2018 RG_{16}	16.9	X	239.13076	6.16241	333.93010	14.40215	0.1380031	0.22637916	2.6663168	21	3 24.3	21.3
541116 2018 RH_{16}	17.5	X	327.02631	223.79600	63.66982	4.57099	0.2001433	0.27157538	2.3616151	21	4 25.7	19.9
541117 2018 RJ_{16}	17.4	X	288.79106	255.21225	88.60755	5.68007	0.2365091	0.27289950	2.3539698	21	5 13.5	20.5
541118 2018 RZ_{16}	17.2	X	337.69121	218.25300	83.65792	6.34127	0.1690136	0.29528827	2.2334278	21	6 12.7	18.9
541119 2018 RE_{17}	16.2	X	155.62072	114.46656	270.41484	9.00720	0.1762700	0.17687940	3.1430494	21	3 8.6	21.4
541120 2018 RU_{17}	16.8	X	217.01657	228.09903	170.93955	15.13409	0.2086231	0.25301998	2.4757085	21	5 19.5	21.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
541121 2018 RV_{18}	17.2	X	304.05610	29.17996	267.11252	5.60748	0.2664416	0.27104757	2.3646799	21	3 19.6	20.5
541122 2018 RD_{22}	18.4	X	1.28765	49.67171	338.74995	17.10785	0.1257528	0.38395162	1.8747860	21	—	—
541123 2018 RB_{23}	18.1	X	276.55861	151.86359	193.31774	1.51563	0.2556594	0.27086319	2.3657530	21	4 27.9	21.4
541124 2018 RP_{23}	17.3	X	251.13226	224.26514	114.63053	5.08539	0.2899845	0.23709629	2.5853512	21	3 30.3	21.8
541125 2018 RV_{23}	16.2	X	151.18784	13.74485	31.19141	11.63649	0.2141967	0.17957402	3.1115280	21	4 5.9	21.4
541126 2018 RP_{24}	17.3	X	258.91400	211.72315	151.81081	11.14717	0.1773032	0.25657226	2.4528044	21	5 16.4	21.1
541127 2018 RL_{26}	16.0	X	205.38171	196.65050	136.45360	11.07795	0.0816983	0.18222268	3.0813032	21	2 24.1	20.8
541128 2018 RB_{27}	16.1	X	183.58620	336.52074	28.41477	12.42162	0.0655428	0.19613176	2.9338468	21	3 13.2	20.6
541129 1995 FW_{11}	17.8	X	257.70162	210.97042	28.11808	1.24762	0.0994896	0.25625712	2.4548149	21	—	—
541130 2003 BW_{35}	16.7	X	71.90469	296.01077	136.06452	6.00298	0.0274461	0.21649143	2.7468962	21	1 7.2	20.2
541131 2004 RC_{145}	17.5	X	279.37572	300.32278	347.97695	1.88282	0.1941721	0.27334197	2.3514288	21	2 22.8	21.0
541132 2015 TG_{387}	5.5	X	359.53378	117.70286	300.80146	11.65620	0.9474870	0.00002256	1240.2829541	21	9 28.8	24.4
541133 2002 QN_{103}	15.9	X	184.14266	201.77969	110.45101	6.72664	0.0301245	0.18152377	3.0892072	21	1 5.6	20.5
541134 2002 RP_{230}	15.9	X	216.16461	253.78590	43.19009	3.00554	0.1517426	0.18245967	3.0786345	21	1 22.5	20.9
541135 2002 VK_{91}	16.6	X	106.90613	233.69790	216.85702	7.22385	0.0459172	0.23324975	2.6136971	21	3 15.6	20.2
541136 2003 WR_{17}	15.1	X	77.97161	305.73217	107.71272	17.22683	0.0500818	0.17987094	3.1081028	21	1 3.4	19.3
541137 2004 XW_{36}	15.6	X	198.13389	186.69853	77.59413	11.53265	0.0894251	0.18257975	3.0772845	21	—	—
541138 2007 NF_{3}	16.0	X	220.07073	93.66069	182.71637	10.28539	0.0868238	0.18059343	3.0998077	21	1 1.9	21.0
541139 2008 FP_{74}	16.1	X	192.06639	260.81922	135.24330	14.68836	0.1256740	0.22884300	2.6471444	21	4 28.4	20.5
541140 2013 EA_{91}	16.5	X	10.63027	304.01929	226.11840	11.74883	0.1511857	0.24096222	2.5576243	21	1 30.5	19.5
541141 2013 FP_{2}	16.4	X	219.05315	247.91216	90.50611	10.66632	0.0921829	0.24098998	2.5574278	21	3 13.1	20.4
541142 2013 GZ_{83}	16.1	X	149.92741	195.59482	228.15671	13.58447	0.0897287	0.24467294	2.5316991	21	4 7.4	19.8
541143 2013 HQ_{16}	16.3	X	282.35780	125.22181	142.94730	7.68617	0.0903233	0.23155951	2.6264006	21	2 18.6	19.9
541144 2013 HY_{145}	16.6	X	123.40169	315.72825	358.25394	0.98780	0.1991876	0.19071283	2.9891620	21	—	—
541145 2013 LT_{3}	15.8	X	168.63771	233.01448	150.37224	21.92272	0.0600042	0.22209070	2.7005308	21	3 13.1	19.8
541146 2013 PG_{36}	15.7	X	329.00273	284.15451	258.89283	8.06637	0.0514956	0.18862403	3.0111891	21	1 13.3	19.9
541147 2014 FE_{52}	17.0	X	73.85333	355.78280	166.15359	7.76385	0.0923610	0.28292588	2.2980225	21	5 12.8	19.6
541148 2014 OX_{404}	16.7	X	146.10652	270.92319	114.06054	5.90746	0.0698634	0.21290804	2.7776318	21	2 18.8	20.6
541149 2014 QS_{437}	16.2	X	105.74503	275.76251	121.05728	6.29680	0.1812516	0.18723378	3.0260765	21	2 4.5	20.4
541150 2015 TL_{157}	16.9	X	255.95604	104.25281	151.59187	1.14653	0.1142696	0.24378589	2.5378367	21	1 1.2	20.7
541151 2017 DO_{31}	15.9	X	180.58805	123.83191	138.00316	10.07653	0.0521208	0.17975344	3.1094571	21	—	—
541152 2017 EU_{9}	16.2	X	185.83990	141.45472	141.01594	6.79512	0.0556103	0.18432700	3.0578071	21	—	—
541153 2017 FW_{30}	16.9	X	279.77798	105.42846	157.38264	2.19781	0.0304892	0.22584093	2.6705514	21	2 16.8	20.4
541154 2017 FK_{41}	16.4	X	214.04209	233.39273	77.98077	4.48737	0.0157814	0.21674056	2.7447908	21	2 2.2	20.2
541155 2017 FG_{53}	16.1	X	220.47450	278.45317	77.97895	12.88580	0.1785772	0.24152555	2.5536458	21	4 5.0	20.5
541156 2011 AG_{2}	17.0	X	57.43151	108.99696	28.32499	3.91043	0.0427011	0.21025724	2.8009288	21	3 15.9	20.7
541157 2011 AT_{2}	17.0	X	181.62166	350.69350	353.39246	4.14950	0.1725881	0.20906076	2.8116054	21	2 13.4	21.6
541158 2011 AJ_{19}	16.6	X	235.43959	172.40605	74.38344	12.82598	0.1648498	0.18959882	3.0008592	21	—	—
541159 2011 AH_{27}	16.5	X	100.89071	171.53231	299.86000	28.75870	0.2716325	0.21278315	2.7787185	21	5 2.3	21.3
541160 2011 AG_{34}	16.5	X	61.51232	51.18330	42.78377	7.44016	0.1010032	0.20035386	2.8924836	21	2 2.8	20.2
541161 2011 AN_{38}	17.1	X	90.75633	315.01511	111.11982	7.37499	0.0874183	0.20115104	2.8848365	21	2 5.7	20.8
541162 2011 AC_{40}	15.6	X	256.51879	284.63216	285.36860	14.77069	0.2039986	0.17759956	3.1345470	21	—	—
541163 2011 AD_{40}	16.9	X	113.18778	171.41401	285.50292	12.60512	0.1554797	0.21311085	2.7758692	21	4 15.6	21.2
541164 2011 AR_{49}	17.5	X	94.20251	334.01606	102.96572	10.36117	0.1122473	0.20465716	2.8517936	21	3 1.8	21.4
541165 2011 AT_{52}	16.8	X	77.43898	358.15246	110.89886	16.43364	0.0916567	0.20573126	2.8418590	21	3 19.8	20.8
541166 2011 AJ_{62}	16.8	X	175.74510	245.76679	88.91166	10.37876	0.0902507	0.19910369	2.9045788	21	1 25.1	21.3
541167 2011 AX_{63}	18.2	X	177.54883	108.79950	306.31891	3.93768	0.0613159	0.31474888	2.1403917	21	4 20.5	20.9
541168 2011 AN_{69}	16.8	X	301.04231	309.64825	329.86840	3.86218	0.0840320	0.21487977	2.7606140	21	3 29.7	20.5
541169 2011 AF_{72}	16.1	X	11.94761	284.49449	265.82566	12.83641	0.0589993	0.21613600	2.7499068	21	3 10.5	19.9
541170 2011 AJ_{77}	16.3	X	156.87622	109.07981	305.75801	24.00761	0.2067533	0.21953585	2.7214420	21	4 3.2	21.4
541171 2011 AP_{79}	16.3	X	50.54637	101.79715	330.42879	14.03897	0.0576328	0.19172758	2.9786055	21	—	—
541172 2011 AV_{81}	16.0	X	164.63655	312.11466	336.15782	9.21261	0.1826639	0.17985806	3.1082512	21	—	—
541173 2011 AZ_{81}	17.2	X	172.16084	250.07565	101.56938	6.83666	0.0794415	0.20369839	2.8607351	21	2 9.3	21.4
541174 2011 AE_{83}	17.1	X	48.02235	38.79804	94.89934	3.24560	0.0204184	0.20253642	2.8716663	21	2 26.3	20.9
541175 2011 AU_{83}	18.0	X	49.70213	82.15591	325.11843	5.20843	0.1058909	0.28044196	2.3115718	21	—	—
541176 2011 BQ_{2}	16.4	X	66.65422	20.67183	71.73765	7.71045	0.0246363	0.20190151	2.8776834	21	1 31.0	20.3
541177 2011 BQ_{4}	15.8	X	188.97795	333.10213	288.11209	8.61840	0.0689107	0.17952470	3.1120979	21	—	—
541178 2011 BJ_{6}	17.2	X	204.45847	87.81631	298.56484	8.43475	0.1175982	0.22156815	2.7047751	21	4 19.3	21.6
541179 2011 BT_{6}	17.4	X	144.52149	290.31182	96.08911	3.22953	0.0839591	0.20462857	2.8520592	21	2 21.4	21.5
541180 2011 BO_{15}	18.6	X	331.85665	115.44651	156.63477	3.42141	0.0796653	0.31218998	2.1520717	21	4 25.9	20.8
541181 2011 BZ_{21}	16.8	X	140.39229	246.60119	135.29166	10.56296	0.1150627	0.20321886	2.8652336	21	2 14.5	21.1
541182 2011 BD_{35}	17.0	X	177.68077	223.71365	134.92072	8.86117	0.0359190	0.20097843	2.8864880	21	2 20.8	21.1
541183 2011 BN_{38}	15.7	X	211.25943	295.11946	333.09690	8.99301	0.0705809	0.17546207	3.1599525	21	—	—
541184 2011 BN_{44}	18.3	X	137.04272	187.20656	273.14665	3.95364	0.0765624	0.31150782	2.1552124	21	5 5.8	21.0
541185 2011 BO_{44}	16.7	X	119.37805	75.73729	296.35421	8.97593	0.1130254	0.19007060	2.9958915	21	1 11.8	20.9
541186 2011 BW_{48}	16.4	X	139.49513	228.93657	122.15928	13.82293	0.1651651	0.18726095	3.0257839	21	1 15.5	21.1
541187 2011 BL_{49}	16.0	X	282.79425	116.99135	117.95132	11.40822	0.0628373	0.19016901	2.9948579	21	1 19.7	20.2
541188 2011 BE_{54}	17.1	X	121.76318	300.16884	123.54283	3.04046	0.0525204	0.20388972	2.8589452	21	3 8.8	21.0
541189 2011 BQ_{68}	17.2	X	138.32016	342.83288	63.96253	3.00361	0.0634638	0.20717033	2.8286834	21	3 9.0	21.1
541190 2011 BP_{70}	16.4	X	316.44697	281.81813	282.36298	9.87176	0.0858274	0.19099256	2.9862426	21	1 18.2	20.4
541191 2011 BK_{71}	17.2	X	34.15816	292.12558	215.37669	3.24716	0.1039133	0.19872864	2.9082322	21	2 25.6	20.6
541192 2011 BJ_{78}	17.1	X	176.80392	302.67310	68.98777	8.43922	0.1818912	0.22999310	2.6383121	21	3 15.6	21.5
541193 2011 BA_{84}	18.0	X	293.64084	125.07913	83.09680	4.39062	0.2979203	0.27883847	2.3204253	21	—	—
541194 2011 BG_{91}	15.9	X	154.27940	39.46833	285.90433	10.32152	0.0647768	0.18644095	3.0346493	21	—	—
541195 2011 BS_{93}	16.6	X	33.26917	335.85646	157.50886	11.62733	0.0203686	0.19623999	2.9327680	21	2 5.5	20.5
541196 2011 BY_{93}	17.8	X	313.75334	325.95160	312.15048	4.99094	0.1537792	0.30634713	2.1793493	21	3 20.5	20.3
541197 2011 BG_{95}	16.8	X	118.67721	12.35560	54.66838	2.82023	0.0551527	0.20660164	2.8338719	21	3 9.5	20.6
541198 2011 BW_{104}	17.1	X	139.34182	233.15950	156.53088	6.79615	0.0972267	0.20171698	2.8794380	21	2 20.2	21.3
541199 2011 BX_{105}	16.1	X	180.86381	17.38036	305.11804	9.22650	0.0598758	0.18929126	3.0041089	21	1 15.1	20.6
541200 2011 BJ_{107}	16.9	X	299.73391	297.26382	283.11237	8.90920	0.0550075	0.19143893	2.9815988	21	1 21.6	21.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
541201 2011 BW_{118}	16.9	X	172.74119	34.67142	354.77399	5.51473	0.0964824	0.21091229	2.7951264	21	3 25.9	21.2
541202 2011 BT_{126}	16.4	X	169.60762	94.19608	312.20477	12.30032	0.1755658	0.21146069	2.7902918	21	4 10.7	21.2
541203 2011 BU_{126}	16.4	X	336.27825	136.74090	138.84793	12.31231	0.0711613	0.21679236	2.7443536	21	5 21.3	20.1
541204 2011 BY_{126}	16.3	X	124.81059	200.91360	140.58564	17.57057	0.1143401	0.18191239	3.0848061	21	—	—
541205 2011 BE_{138}	16.9	X	206.78198	322.52968	329.44362	8.89088	0.1360374	0.19178266	2.9780352	21	1 7.8	21.7
541206 2011 BY_{138}	16.9	X	162.63388	252.65369	98.13657	9.46116	0.1112741	0.19964985	2.8992794	21	2 1.5	21.3
541207 2011 BN_{141}	17.6	X	261.43359	201.19084	86.85732	6.50169	0.1917723	0.29918536	2.2139908	21	2 3.6	21.1
541208 2011 BV_{144}	17.1	X	314.96618	122.87595	101.91269	3.16549	0.0490920	0.20045827	2.8914791	21	2 15.9	20.9
541209 2011 BB_{146}	17.4	X	189.45930	63.93208	321.09546	5.40085	0.0345491	0.21261714	2.7801648	21	4 3.3	21.5
541210 2011 BL_{148}	18.4	X	334.45025	122.09491	104.97308	7.31199	0.0899362	0.29997216	2.2101178	21	2 22.6	20.8
541211 2011 BM_{149}	15.8	X	181.91340	171.61829	100.20085	10.68919	0.1291139	0.17718148	3.1394760	21	—	—
541212 2011 BU_{152}	17.3	X	138.70313	168.33272	235.55640	12.78598	0.2536503	0.22348481	2.6892884	21	3 17.8	21.8
541213 2011 BO_{157}	16.9	X	275.44252	202.79527	56.82274	2.71325	0.0630571	0.20222022	2.8746589	21	2 8.9	21.0
541214 2011 BX_{159}	17.3	X	255.53679	1.54644	346.22711	5.18684	0.0264886	0.21974613	2.7197056	21	5 6.8	21.0
541215 2011 BY_{164}	16.7	X	215.18338	3.69123	300.94091	8.60899	0.1387641	0.18929890	3.0040281	21	1 28.3	21.5
541216 2011 BP_{165}	17.0	X	41.30324	107.42788	323.75214	9.05861	0.1212776	0.18270290	3.0759014	21	—	—
541217 2011 BG_{168}	16.4	X	162.57261	356.54544	330.00116	27.98335	0.1113580	0.18153317	3.0891006	21	1 13.8	21.5
541218 2011 BV_{169}	16.3	X	196.30395	348.95830	331.90721	10.10821	0.1320236	0.20214270	2.8753939	21	1 30.5	20.9
541219 2011 BE_{170}	17.1	X	196.42574	350.45327	18.93136	4.57392	0.0830994	0.20908122	2.8114219	21	3 26.8	21.4
541220 2011 CT	16.7	X	159.38135	342.48831	48.03976	6.38083	0.1118668	0.20413276	2.8566755	21	3 18.7	21.1
541221 2011 CA_{5}	16.7	X	117.73923	295.28438	139.89685	25.10056	0.2419290	0.20927295	2.8097046	21	4 17.9	21.5
541222 2011 CB_{17}	16.1	X	62.42540	271.69054	150.00705	10.52156	0.0665845	0.18735544	3.0247665	21	—	—
541223 2011 CL_{23}	16.8	X	247.66207	231.53580	128.79688	6.91439	0.0568306	0.22078659	2.7111544	21	5 14.0	20.7
541224 2011 CR_{23}	16.6	X	5.40309	50.27325	88.15695	11.08676	0.0419179	0.19102666	2.9858872	21	1 7.9	20.5
541225 2011 CQ_{41}	17.0	X	63.94762	196.36089	271.32777	3.81330	0.0787630	0.19802144	2.9151522	21	2 17.8	20.7
541226 2011 CF_{46}	17.1	X	63.77126	326.06551	159.28535	9.26058	0.2149167	0.20455005	2.8527890	21	4 2.4	20.3
541227 2011 CN_{48}	16.9	X	64.41661	125.88919	350.20006	12.23374	0.1379099	0.20327557	2.8647007	21	3 9.1	20.1
541228 2011 CL_{60}	17.0	X	11.32463	352.20978	146.26055	10.18177	0.0776857	0.19141674	2.9818292	21	1 12.8	20.9
541229 2011 CR_{63}	18.1	X	344.94765	176.58241	65.51553	0.89995	0.1565768	0.30054710	2.2072982	21	3 21.5	19.9
541230 2011 CZ_{63}	18.3	X	161.88050	123.49590	348.35147	1.67176	0.1643549	0.22545546	2.6735946	21	6 29.7	22.6
541231 2011 CW_{65}	16.8	X	175.05999	279.93422	128.55479	13.73926	0.2091692	0.21605019	2.7506349	21	4 30.7	21.7
541232 2011 CE_{69}	16.7	X	327.41455	275.17588	283.38416	13.62742	0.1180973	0.19778429	2.9174820	21	1 18.8	20.5
541233 2011 CK_{69}	16.7	X	39.26553	142.21286	304.52678	9.82753	0.0840012	0.18949973	3.0019053	21	—	—
541234 2011 CM_{78}	17.1	X	226.12991	353.77410	305.36875	5.78432	0.1187801	0.28749451	2.2736120	21	1 17.8	20.2
541235 2011 CB_{83}	16.8	X	116.08689	206.00765	161.73528	10.30411	0.1066256	0.18541555	3.0458273	21	1 2.1	21.2
541236 2011 CG_{83}	18.4	X	305.80286	332.61839	308.17019	4.15406	0.0207413	0.30533495	2.1841630	21	4 4.5	21.0
541237 2011 CP_{90}	15.9	X	126.60670	29.68597	314.00041	14.50612	0.0110844	0.17945153	3.1129437	21	—	—
541238 2011 CF_{93}	16.8	X	134.41544	121.15307	290.03724	7.38492	0.0865379	0.20267524	2.8703548	21	3 8.2	21.0
541239 2011 CS_{95}	17.0	X	202.05939	40.50354	317.31942	12.95093	0.1460778	0.20537821	2.8451149	21	3 13.2	21.8
541240 2011 CE_{96}	17.3	X	207.20565	208.98359	163.38672	5.53146	0.0838724	0.21012006	2.8021478	21	4 11.6	21.5
541241 2011 CB_{98}	16.9	X	118.62406	149.15129	253.54611	7.52229	0.2902781	0.20223732	2.8744969	21	3 5.0	21.5
541242 2011 CC_{110}	16.7	X	161.92528	174.08160	178.09982	10.67847	0.0985192	0.19071874	2.9891002	21	1 30.4	21.4
541243 2011 CV_{112}	16.8	X	220.74345	346.87837	307.61593	14.30819	0.0784284	0.18978499	2.9988965	21	1 23.5	21.4
541244 2011 CC_{113}	17.5	X	139.77552	276.53004	167.68815	14.64435	0.1622791	0.21370104	2.7707560	21	5 8.1	22.0
541245 2011 CS_{114}	16.7	X	149.66153	192.27593	168.16133	9.35078	0.2328469	0.19467768	2.9484376	21	2 8.8	21.6
541246 2011 CF_{116}	16.8	X	72.56022	321.99430	163.31157	5.99257	0.0220234	0.20210870	2.8757163	21	3 19.4	20.5
541247 2011 CK_{116}	16.9	X	154.03645	179.88054	220.62159	1.30225	0.0726982	0.20299555	2.8673346	21	3 18.7	21.0
541248 2011 CN_{117}	16.4	X	179.12697	170.08534	76.00134	7.30691	0.0902084	0.25815985	2.4427382	21	—	—
541249 2011 CF_{120}	16.8	X	117.99414	65.08993	332.89361	11.46992	0.0862874	0.19305448	2.9649415	21	2 7.5	20.9
541250 2011 CR_{120}	17.0	X	347.90100	39.62981	176.79162	5.90722	0.0630171	0.20850372	2.8166108	21	3 17.8	20.3
541251 2011 DG_{6}	16.8	X	128.50926	315.42441	148.65734	8.69383	0.1893824	0.21400999	2.7680888	21	5 23.1	21.2
541252 2011 DE_{13}	17.1	X	119.14310	288.92004	154.49314	9.30970	0.1912581	0.21046907	2.7990492	21	4 18.7	21.3
541253 2011 DV_{13}	17.6	X	256.85824	275.88045	328.64884	20.85792	0.2557253	0.27560105	2.3385615	21	—	—
541254 2011 DJ_{15}	16.5	X	242.22721	316.06858	316.55472	11.30132	0.1712966	0.18743170	3.0239459	21	1 16.1	21.4
541255 2011 DO_{15}	17.5	X	169.35741	267.52542	158.55416	4.05040	0.0811929	0.21602081	2.7508842	21	5 7.9	21.5
541256 2011 DF_{20}	15.3	X	330.45375	126.06932	75.69173	14.62386	0.0446265	0.19010488	2.9955314	21	2 13.9	19.6
541257 2011 DU_{20}	18.4	X	128.12943	321.93091	143.81952	5.21468	0.0533848	0.30893434	2.1671647	21	5 1.8	20.9
541258 2011 DN_{30}	15.6	X	270.17139	178.47557	41.57742	13.02685	0.1017605	0.18097679	3.0954286	21	—	—
541259 2011 DC_{32}	17.1	X	183.36108	18.22857	1.99060	1.73282	0.0797760	0.20360143	2.8616434	21	3 26.2	21.5
541260 2011 DA_{37}	16.7	X	254.38553	90.66573	179.63095	1.84848	0.1352900	0.18679317	3.0308333	21	1 24.7	21.5
541261 2011 DT_{39}	16.6	X	62.79588	114.97661	329.64732	9.57287	0.0948441	0.18949547	3.0019503	21	1 24.7	20.4
541262 2011 DQ_{40}	16.6	X	295.91379	228.89474	347.29746	15.55383	0.0873546	0.18396890	3.0617738	21	1 14.3	21.2
541263 2011 DC_{46}	16.1	X	261.48939	250.78261	348.17873	16.39803	0.0808082	0.18222733	3.0812507	21	1 3.6	21.0
541264 2011 EK_{3}	16.2	X	281.08361	251.37242	351.05926	18.30553	0.0910556	0.18492867	3.0511711	21	1 30.4	20.9
541265 2011 EG_{4}	16.8	X	341.10244	226.22837	319.72374	8.75940	0.1083070	0.18457388	3.0550798	21	1 28.5	20.6
541266 2011 EX_{16}	16.5	X	13.44718	182.93534	300.51181	9.04213	0.1005203	0.18955077	3.0013664	21	—	—
541267 2011 EP_{20}	18.0	X	35.33860	142.19582	73.39331	6.35765	0.0696561	0.30846961	2.1693409	21	5 22.2	19.9
541268 2011 EX_{20}	16.0	X	226.17771	166.59840	106.43770	11.84888	0.0907930	0.17955062	3.1117984	21	1 4.9	20.9
541269 2011 EN_{29}	16.9	X	110.31244	76.03027	63.80290	9.00671	0.1565459	0.21668946	2.7452224	21	6 12.0	20.9
541270 2011 EE_{31}	17.1	X	53.59853	87.87589	34.36323	14.29409	0.3101853	0.19940101	2.9016909	21	3 28.7	19.9
541271 2011 ES_{33}	16.9	X	289.74944	68.97764	160.70565	9.97110	0.0255877	0.18861560	3.0112789	21	1 25.3	21.3
541272 2011 EB_{36}	16.8	X	61.54536	292.15073	170.97028	11.88183	0.0697680	0.18929995	3.0040170	21	2 9.3	20.8
541273 2011 EU_{38}	16.7	X	90.46845	344.53780	128.31127	3.70046	0.1014862	0.19821954	2.9132097	21	4 8.8	20.5
541274 2011 EX_{38}	16.3	X	207.56518	142.28147	176.89046	17.21761	0.0973628	0.18229910	3.0804420	21	2 6.3	21.3
541275 2011 EF_{39}	16.8	X	3.92775	154.12583	22.09385	11.45372	0.0838603	0.18914987	3.0056058	21	2 24.4	20.7
541276 2011 ES_{40}	16.5	X	230.04171	85.35435	188.62916	10.21623	0.0932088	0.18298480	3.0727416	21	1 7.7	21.4
541277 2011 EX_{43}	16.9	X	105.19879	346.42227	67.78192	2.69129	0.0935460	0.18995584	2.9970980	21	2 12.8	21.0
541278 2011 EK_{52}	16.7	X	18.22754	348.31051	81.80639	7.27550	0.1534902	0.17449123	3.1716626	21	—	—
541279 2011 EO_{53}	15.7	X	129.36985	292.75614	71.25498	10.36516	0.0748364	0.17377976	3.1803134	21	1 12.5	20.3
541280 2011 EG_{54}	16.3	X	236.11148	204.64727	156.91676	6.95362	0.0930247	0.20395861	2.8583014	21	4 29.8	20.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
541281 2011 ES_{57}	17.3	X	118.09459	33.14911	78.82175	9.04201	0.1877782	0.21195976	2.7859102	21	5 21.2	21.5
541282 2011 EW_{59}	16.7	X	188.89351	356.57310	32.93517	11.89573	0.1131642	0.20708742	2.8294384	21	4 14.1	21.2
541283 2011 EZ_{60}	16.3	X	189.28540	267.54383	68.26255	10.24985	0.0314910	0.18964918	3.0003280	21	2 10.6	20.8
541284 2011 ED_{64}	18.5	X	92.95681	129.28015	14.98393	6.64330	0.0648868	0.30551711	2.1832947	21	5 5.3	21.0
541285 2011 ES_{72}	18.3	X	56.46166	221.67772	316.07610	1.30714	0.1127830	0.30085332	2.2058002	21	5 4.9	20.3
541286 2011 EC_{79}	16.3	X	55.94305	82.88474	84.56172	15.91214	0.0929875	0.20659229	2.8339573	21	5 3.7	20.1
541287 2011 EQ_{81}	16.1	X	221.07309	114.54650	162.10302	10.80085	0.0910012	0.18014131	3.1049921	21	1 3.5	21.1
541288 2011 ET_{81}	16.7	X	44.76528	53.48586	51.81299	3.16786	0.1169265	0.18800454	3.0178003	21	1 24.3	20.3
541289 2011 EE_{82}	16.5	X	234.39675	214.81182	33.87677	3.99317	0.0912243	0.17627393	3.1502425	21	—	—
541290 2011 ER_{82}	16.5	X	286.16849	114.52522	131.15209	1.71685	0.0632766	0.18849845	3.0125264	21	2 5.7	20.6
541291 2011 ED_{89}	17.0	X	281.49215	108.92973	131.02235	1.85874	0.0352415	0.18564012	3.0433705	21	1 28.4	21.2
541292 2011 FL_{1}	16.4	X	5.05945	76.42666	70.44161	11.23510	0.0243426	0.18270655	3.0758605	21	1 22.4	20.7
541293 2011 FL_{3}	16.8	X	95.44352	317.48615	181.81251	12.31079	0.1225568	0.21007375	2.8025596	21	5 22.3	20.8
541294 2011 FK_{6}	16.5	X	121.24976	351.79441	66.45738	11.45458	0.1022641	0.19155066	2.9804393	21	3 15.1	21.0
541295 2011 FD_{9}	17.6	X	286.94874	224.41907	22.53959	7.37306	0.1300304	0.28202752	2.3028999	21	1 15.8	21.0
541296 2011 FA_{13}	16.3	X	324.74709	22.93472	151.39270	10.20717	0.0722613	0.17625718	3.1504421	21	—	—
541297 2011 FD_{14}	18.0	X	177.15125	344.42587	39.78911	4.62636	0.1763075	0.29559200	2.2318976	21	3 21.8	21.3
541298 2011 FL_{14}	17.8	X	207.41606	122.57324	175.83090	8.51069	0.2776664	0.27015879	2.3698634	21	1 5.5	22.2
541299 2011 FX_{18}	16.2	X	216.60618	257.47279	46.19069	9.99716	0.1254693	0.18145160	3.0900263	21	2 2.5	21.3
541300 2011 FU_{20}	16.5	X	137.11843	269.13160	129.33860	2.97649	0.1301779	0.19365936	2.9587645	21	3 6.3	21.0
541301 2011 FZ_{21}	16.8	X	325.99664	77.46861	95.58314	9.24096	0.0654010	0.18257256	3.0773653	21	—	—
541302 2011 FS_{22}	16.2	X	209.35671	272.01499	44.94393	12.39887	0.0653597	0.18895554	3.0076661	21	2 12.4	20.9
541303 2011 FY_{24}	16.1	X	113.49677	307.34037	85.49904	10.84971	0.1243415	0.17975338	3.1094578	21	2 4.4	20.6
541304 2011 FG_{25}	16.4	X	290.78843	147.60825	65.58633	11.27751	0.1653599	0.17658498	3.1465421	21	—	—
541305 2011 FN_{26}	15.8	X	2.84540	5.58118	141.40330	12.03771	0.0517008	0.18045094	3.1014393	21	1 15.9	20.1
541306 2011 FC_{28}	15.6	X	39.14643	225.31514	298.32952	8.05630	0.0302335	0.19739838	2.9212832	21	3 20.1	19.6
541307 2011 FJ_{30}	16.8	X	111.19467	195.42703	207.43406	9.25103	0.1314113	0.18644513	3.0346039	21	2 8.1	21.2
541308 2011 FE_{38}	16.3	X	200.82282	291.95820	5.83462	11.64678	0.0418536	0.17547707	3.1597724	21	1 11.0	21.1
541309 2011 FS_{38}	16.3	X	192.22204	268.07921	54.59184	6.22923	0.1240916	0.17903323	3.1177907	21	2 1.3	21.3
541310 2011 FK_{42}	16.0	X	22.90376	359.22247	93.79425	10.88718	0.0696807	0.17608423	3.1525046	21	—	—
541311 2011 FC_{43}	15.8	X	174.41243	230.95243	125.21008	10.63348	0.1026392	0.18741901	3.0240824	21	2 20.9	20.5
541312 2011 FU_{46}	18.7	X	276.46858	358.67852	290.52506	0.40228	0.2360269	0.28146414	2.3059719	21	2 15.9	22.1
541313 2011 FT_{48}	16.3	X	345.36453	135.97841	84.55274	9.86807	0.0546250	0.18891657	3.0080798	21	3 28.8	20.4
541314 2011 FD_{49}	16.2	X	239.58732	288.65543	345.37028	9.88703	0.0699685	0.18001601	3.1064327	21	1 22.6	21.0
541315 2011 FP_{52}	17.6	X	211.19519	103.16576	181.23155	7.54337	0.1138571	0.27159929	2.3614765	21	—	—
541316 2011 FW_{54}	16.3	X	271.05645	87.71973	163.71621	9.28305	0.1000041	0.18399783	3.0614529	21	1 22.0	21.0
541317 2011 FB_{55}	18.0	X	195.00605	357.22141	24.75777	5.56255	0.1715594	0.30008052	2.2095857	21	4 3.1	21.4
541318 2011 FD_{61}	16.7	X	112.52231	202.56996	190.27490	8.33093	0.0648647	0.18024212	3.1038343	21	1 21.8	21.2
541319 2011 FS_{61}	16.6	X	82.83773	66.33498	13.24731	11.16012	0.1912906	0.18921413	3.0049252	21	3 3.8	20.5
541320 2011 FV_{61}	16.8	X	75.81822	256.07207	200.07995	8.45956	0.1011545	0.18925518	3.0044907	21	2 23.6	20.9
541321 2011 FH_{72}	17.1	X	81.84249	242.76984	35.28001	9.26047	0.1457541	0.23799243	2.5788571	21	11 5.8	20.8
541322 2011 FY_{72}	16.7	X	205.64729	163.52946	147.96782	9.97368	0.0897339	0.18300751	3.0724874	21	1 28.2	21.4
541323 2011 FJ_{73}	17.2	X	141.32996	278.71656	173.08443	4.09464	0.0711584	0.20993031	2.8038360	21	5 8.6	21.2
541324 2011 FR_{74}	16.8	X	338.04153	190.64554	355.66594	8.04338	0.0410817	0.18773107	3.0207302	21	2 2.9	21.0
541325 2011 FC_{75}	15.9	X	117.95283	350.83609	357.76882	9.73032	0.0908017	0.17255985	3.1952846	21	—	—
541326 2011 FR_{75}	17.0	X	106.61420	232.75544	177.41878	6.81679	0.0588919	0.18726499	3.0257404	21	2 2.7	21.3
541327 2011 FW_{78}	16.3	X	273.49668	218.13522	21.06609	16.48079	0.1606041	0.17988554	3.1079346	21	1 8.6	21.4
541328 2011 FS_{79}	15.9	X	194.25920	130.12886	167.08364	13.95237	0.0777187	0.17607616	3.1526010	21	1 1.6	20.9
541329 2011 FF_{83}	16.7	X	336.30118	164.27828	25.75302	10.06875	0.0978583	0.18554651	3.0443939	21	1 30.9	20.8
541330 2011 FW_{84}	15.7	X	144.10108	242.04101	94.40080	10.58514	0.0778244	0.17395953	3.1781221	21	—	—
541331 2011 FB_{86}	16.2	X	349.65261	237.36621	284.08746	4.54761	0.0607419	0.18408297	3.0605088	21	1 14.7	20.3
541332 2011 FE_{89}	16.3	X	50.69919	49.99857	57.43755	10.81545	0.0769736	0.18862530	3.0111756	21	2 5.7	20.3
541333 2011 FF_{90}	16.8	X	94.86399	50.42225	127.40994	11.17490	0.1772130	0.21567042	2.7538630	21	7 16.9	20.7
541334 2011 FF_{92}	16.5	X	346.70255	202.59994	357.11670	4.15017	0.1468261	0.19123195	2.9837499	21	2 17.3	20.0
541335 2011 FT_{92}	16.7	X	314.61999	207.63602	5.36780	8.87338	0.0443130	0.18659004	3.0330325	21	2 6.4	20.9
541336 2011 FY_{95}	16.6	X	72.87254	195.31565	197.81243	9.68283	0.0694150	0.17180173	3.2046777	21	—	—
541337 2011 FL_{96}	16.5	X	116.78665	204.03026	219.04461	4.16933	0.0402323	0.19170348	2.9788551	21	2 27.3	20.7
541338 2011 FA_{101}	17.0	X	188.12864	318.82951	0.28286	9.82712	0.0520575	0.17891989	3.1191073	21	1 22.5	21.8
541339 2011 FZ_{104}	16.0	X	218.73730	184.12942	121.16910	13.95600	0.1774236	0.18118608	3.0930445	21	2 2.7	21.2
541340 2011 FA_{106}	16.5	X	64.01171	87.10167	335.27735	10.04807	0.1481046	0.18079678	3.0974829	21	1 6.1	20.3
541341 2011 FH_{107}	16.5	X	251.05296	0.28099	277.85881	3.37754	0.0862514	0.18513647	3.0488875	21	2 3.1	21.2
541342 2011 FL_{107}	16.9	X	99.29121	76.34640	346.60590	10.38705	0.0447913	0.18715254	3.0269522	21	2 11.0	21.1
541343 2011 FY_{107}	16.5	X	175.50650	352.47916	329.07241	7.51747	0.1016097	0.17747955	3.1359599	21	1 13.8	21.4
541344 2011 FQ_{108}	16.8	X	196.50694	331.12512	348.48213	10.32616	0.0307678	0.18389817	3.0625588	21	1 30.6	21.3
541345 2011 FS_{108}	16.4	X	178.08424	335.13232	347.44855	8.89363	0.0999749	0.17894407	3.1188262	21	1 18.0	21.3
541346 2011 FU_{111}	16.8	X	147.63712	127.24692	207.50057	10.80805	0.1039653	0.17280287	3.1922881	21	—	—
541347 2011 FH_{113}	16.6	X	139.68785	96.07751	324.60114	8.64230	0.1382237	0.19895296	2.9060457	21	3 31.5	21.1
541348 2011 FB_{116}	16.0	X	154.79050	71.06365	264.52041	6.50198	0.1887207	0.17158630	3.2073595	21	1 15.9	21.3
541349 2011 FC_{117}	17.6	X	204.30115	85.07903	235.74479	5.41098	0.1462546	0.27782617	2.3260584	21	1 23.9	21.3
541350 2011 FA_{123}	16.3	X	258.54380	247.55872	356.62454	12.03028	0.1313906	0.17602377	3.1532266	21	1 2.6	21.4
541351 2011 FD_{128}	16.5	X	61.91938	114.24562	104.04454	8.94101	0.1495072	0.21586484	2.7522092	21	7 24.5	20.0
541352 2011 FN_{128}	16.3	X	329.88152	133.67009	66.80756	10.25418	0.0806886	0.18878680	3.0094581	21	2 5.4	20.5
541353 2011 FY_{139}	16.4	X	257.08115	38.30245	184.76323	25.74205	0.0736002	0.17441936	3.1725338	21	—	—
541354 2011 FM_{140}	16.8	X	58.63021	276.51316	189.44939	9.63501	0.0773567	0.19017680	2.9947761	21	2 8.6	20.8
541355 2011 FU_{146}	16.1	X	9.12432	224.54335	294.98413	9.31182	0.0982158	0.18861639	3.0112705	21	2 3.5	19.9
541356 2011 FW_{146}	16.1	X	82.59791	140.88256	324.52577	9.66553	0.0224762	0.19289641	2.9665610	21	3 5.7	20.3
541357 2011 FE_{147}	16.2	X	357.42674	237.94962	290.78343	5.92461	0.1163815	0.18744022	3.0238542	21	1 27.9	19.8
541358 2011 FE_{153}	16.7	X	20.69929	289.19059	234.32448	7.87704	0.0784108	0.19264061	2.9691866	21	2 23.9	20.7
541359 2011 FJ_{155}	16.6	X	343.55018	317.59874	240.07792	3.58723	0.1166081	0.19026970	2.9938012	21	2 11.2	20.4
541360 2011 FA_{156}	18.0	X	334.77625	149.22756	124.87205	6.80622	0.1019967	0.30498393	2.1858385	21	5 3.6	20.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
541361 2011 FR_{158}	16.5	X	286.72019	230.12265	353.29336	10.32830	0.0232308	0.18540748	3.0459157	21	1 19.0	20.9
541362 2011 FN_{159}	16.2	X	263.52227	150.58320	89.11551	10.67197	0.0549002	0.17902952	3.1178337	21	1 6.9	20.7
541363 2011 GR_{1}	16.9	X	126.36037	215.93811	227.25171	8.79204	0.0836622	0.19891093	2.9064551	21	4 9.7	21.1
541364 2011 GS_{1}	17.1	X	48.49123	126.73572	346.76946	10.83641	0.0559375	0.18504257	3.0499189	21	2 8.4	21.1
541365 2011 GM_{2}	16.0	X	313.05400	139.91012	5.03837	14.81517	0.0405750	0.17325408	3.1867432	21	—	—
541366 2011 GP_{5}	16.6	X	35.47466	45.61940	62.12125	10.99199	0.0532823	0.18203378	3.0834345	21	1 13.5	20.8
541367 2011 GA_{8}	15.9	X	182.23673	243.46876	55.38779	16.04986	0.0955481	0.17239746	3.1972908	21	—	—
541368 2011 GF_{8}	16.0	X	248.14329	160.88193	77.83078	12.94082	0.1069328	0.17383111	3.1796870	21	—	—
541369 2011 GN_{8}	15.9	X	116.74202	337.96735	83.13058	12.01744	0.0599027	0.19169612	2.9789313	21	3 7.1	20.3
541370 2011 GS_{8}	16.5	X	347.32581	97.52246	69.97832	11.97250	0.0325639	0.18398813	3.0615605	21	1 24.3	20.8
541371 2011 GW_{8}	16.1	X	138.27097	299.32992	75.04294	11.00980	0.0601836	0.18338754	3.0682412	21	2 2.0	20.7
541372 2011 GR_{15}	16.8	X	133.56945	42.02999	349.18095	9.80562	0.0336521	0.18416097	3.0596446	21	2 12.9	21.2
541373 2011 GA_{16}	18.8	X	143.81125	149.22365	321.62209	3.95536	0.0621205	0.30639768	2.1791096	21	5 29.2	21.4
541374 2011 GK_{16}	16.0	X	114.45322	35.58165	354.70937	10.50468	0.0699889	0.17926862	3.1150608	21	1 26.9	20.5
541375 2011 GF_{19}	16.6	X	81.87694	119.75440	339.58285	9.12597	0.0943038	0.19159079	2.9800231	21	3 8.2	20.4
541376 2011 GM_{21}	16.6	X	340.61984	198.22224	339.26846	9.73409	0.0488102	0.18229700	3.0804656	21	1 26.5	20.8
541377 2011 GL_{22}	16.4	X	79.40393	186.22638	305.89179	7.20546	0.1334444	0.19976528	2.8981624	21	4 17.8	20.3
541378 2011 GW_{24}	16.2	X	123.26915	16.33649	355.35353	10.00793	0.1139194	0.17372585	3.1809714	21	1 21.6	20.9
541379 2011 GN_{25}	16.3	X	0.25150	160.49314	359.60223	11.36438	0.0757496	0.18286962	3.0740317	21	1 30.5	20.4
541380 2011 GH_{29}	17.1	X	342.16835	168.97716	19.26216	10.63167	0.0677310	0.18787134	3.0192265	21	2 9.7	21.2
541381 2011 GM_{29}	16.7	X	130.85494	234.78436	161.04468	6.47076	0.0319307	0.18743246	3.0239378	21	2 11.5	21.0
541382 2011 GV_{31}	17.7	X	258.55372	306.83323	10.73733	6.64960	0.1921715	0.28497592	2.2869883	21	3 11.7	21.1
541383 2011 GH_{37}	18.3	X	58.93355	26.20558	178.26091	5.87327	0.1165794	0.30566600	2.1825856	21	6 23.1	20.5
541384 2011 GV_{39}	16.5	X	259.63991	106.48663	140.29862	8.25779	0.0499354	0.18091669	3.0961141	21	1 10.6	21.1
541385 2011 GD_{40}	16.4	X	236.90212	162.34817	134.25588	5.71062	0.1956886	0.18415123	3.0597525	21	2 5.9	21.3
541386 2011 GJ_{41}	15.7	X	114.11816	304.79418	83.80112	10.50857	0.0586858	0.18016050	3.1047716	21	1 20.7	20.1
541387 2011 GY_{43}	16.4	X	165.45542	200.17202	156.17590	10.28327	0.0182853	0.18661322	3.0327814	21	2 2.9	20.8
541388 2011 GX_{54}	16.6	X	39.80977	357.89125	135.93399	16.53004	0.1893022	0.18970896	2.9996976	21	2 27.1	19.8
541389 2011 GX_{55}	16.6	X	42.00841	161.28218	52.46346	3.39580	0.0294616	0.21397221	2.7684146	21	5 31.8	20.2
541390 2011 GZ_{57}	16.1	X	289.57699	199.86215	48.52689	15.13346	0.1903665	0.18060713	3.0996509	21	2 3.4	21.0
541391 2011 GH_{60}	16.3	X	268.17528	58.41249	174.52271	16.59697	0.1647385	0.17866740	3.1220451	21	—	—
541392 2011 GQ_{62}	16.5	X	3.71983	299.88430	212.72945	18.68037	0.2133609	0.18597489	3.0397171	21	1 4.6	20.3
541393 2011 GU_{62}	15.8	X	341.34828	240.74100	13.75780	13.81389	0.1063447	0.19608599	2.9343034	21	4 21.7	19.5
541394 2011 GQ_{64}	16.1	X	103.23260	97.59953	59.42516	22.24195	0.3626498	0.21379532	2.7699414	21	7 22.1	21.1
541395 2011 GE_{66}	16.0	X	300.14746	327.28720	268.32526	9.86161	0.1926430	0.18315737	3.0708112	21	1 22.6	20.6
541396 2011 GA_{75}	18.8	X	220.20344	37.18550	31.25769	21.65109	0.0152961	0.40906892	1.7972358	21	7 20.5	21.1
541397 2011 GE_{77}	16.4	X	265.65323	241.72772	40.83217	11.11093	0.0382242	0.18496376	3.0507851	21	3 7.4	20.9
541398 2011 GX_{80}	16.2	X	169.45288	225.17399	94.04647	14.61126	0.0363207	0.17007804	3.2262936	21	—	—
541399 2011 GD_{81}	15.9	X	201.48628	209.47278	104.04695	18.05595	0.2121644	0.17404120	3.1771277	21	1 30.9	21.4
541400 2011 GC_{82}	16.1	X	344.28382	215.67904	326.78119	7.81203	0.0714193	0.18072180	3.0983397	21	2 2.9	20.2
541401 2011 GD_{82}	16.2	X	322.14009	264.32459	301.70624	7.34668	0.0905355	0.18039762	3.1020503	21	1 29.7	20.3
541402 2011 GG_{83}	16.2	X	270.21235	72.04466	157.62553	9.86253	0.0489254	0.17450764	3.1714638	21	1 3.5	21.0
541403 2011 GC_{91}	15.5	X	176.30027	239.53638	88.42238	13.43210	0.1892841	0.16897240	3.2403521	21	1 28.1	20.9
541404 2011 HC_{3}	16.1	X	261.87887	219.65915	66.72335	19.66549	0.2085378	0.18141468	3.0904456	21	2 22.7	21.4
541405 2011 HH_{14}	16.2	X	238.99242	78.73414	199.06693	9.92376	0.0647605	0.17625991	3.1504096	21	1 22.6	21.1
541406 2011 HR_{16}	16.5	X	332.24646	336.14176	226.33428	10.14615	0.0396651	0.18304180	3.0721036	21	2 9.9	20.9
541407 2011 HA_{19}	16.2	X	334.79039	255.48896	308.77466	4.37932	0.1383858	0.18386269	3.0629529	21	2 6.4	20.0
541408 2011 HD_{19}	16.0	X	286.13488	236.55526	7.54885	10.25692	0.0073821	0.18033259	3.1027961	21	2 16.1	20.4
541409 2011 HM_{20}	16.1	X	179.98664	164.16667	189.73086	6.06503	0.0247950	0.18628329	3.0363614	21	2 16.8	20.5
541410 2011 HJ_{32}	15.8	X	40.39433	26.93365	95.37833	11.05772	0.0495686	0.17953526	3.1119759	21	2 8.7	20.0
541411 2011 HT_{37}	16.4	X	225.72661	148.77229	143.57924	6.04132	0.1744367	0.17126008	3.2114311	21	1 25.0	21.8
541412 2011 HV_{37}	16.0	X	280.40026	225.56117	74.07875	11.97051	0.0727880	0.19079680	2.9882849	21	4 10.2	20.4
541413 2011 HT_{40}	16.7	X	334.18020	349.40010	175.88594	11.73308	0.1047102	0.17565943	3.1575851	21	—	—
541414 2011 HE_{41}	15.8	X	154.26954	266.39183	87.41138	12.50107	0.0684932	0.17495864	3.1660113	21	1 27.8	20.6
541415 2011 HH_{42}	15.8	X	58.81438	351.72291	77.56521	15.81954	0.1119683	0.17312125	3.1883731	21	1 3.5	19.9
541416 2011 HE_{45}	16.0	X	32.13493	3.74561	118.97986	9.98101	0.0655378	0.17694951	3.1422191	21	1 27.7	19.9
541417 2011 HO_{45}	16.4	X	67.84578	359.59877	113.61500	11.89869	0.0302494	0.18242052	3.0790750	21	3 5.1	20.7
541418 2011 HU_{45}	16.8	X	120.41342	260.10242	211.57877	14.30837	0.1125319	0.20347251	2.8628519	21	5 14.8	21.0
541419 2011 HO_{46}	16.4	X	83.89400	332.93247	83.37765	11.82583	0.0306432	0.17357582	3.1828040	21	1 14.0	20.9
541420 2011 HF_{48}	15.9	X	351.29568	111.57756	69.66704	17.38050	0.0663972	0.18261430	3.0768964	21	2 17.1	20.3
541421 2011 HB_{49}	16.9	X	26.35700	315.49102	194.24320	16.12578	0.1770884	0.18599640	3.0394828	21	2 16.4	20.4
541422 2011 HC_{49}	16.4	X	206.23203	255.25364	62.54161	11.25876	0.0692088	0.17636278	3.1491844	21	2 10.8	21.3
541423 2011 HS_{49}	16.0	X	264.19857	144.73285	89.44736	10.93797	0.0486020	0.17186552	3.2038846	21	1 3.2	20.7
541424 2011 HM_{50}	15.9	X	158.11278	256.45570	99.83949	10.53915	0.0697197	0.17375577	3.1806061	21	2 4.1	20.7
541425 2011 HF_{53}	15.9	X	145.30106	195.07292	171.68689	9.37363	0.0786731	0.17384363	3.1795344	21	1 31.4	20.7
541426 2011 HM_{53}	16.3	X	114.12430	282.46210	110.07697	10.35204	0.1220157	0.17344150	3.1844471	21	2 4.3	20.9
541427 2011 HW_{54}	16.2	X	52.00366	7.89255	95.45334	11.27523	0.0461124	0.17602747	3.1531823	21	1 31.9	20.5
541428 2011 HT_{56}	16.5	X	312.73727	180.69326	27.58014	4.92110	0.0776024	0.18214823	3.0821427	21	1 23.9	20.8
541429 2011 HB_{58}	15.8	X	130.76045	295.44410	94.21686	12.11331	0.0809718	0.17811109	3.1285427	21	2 15.8	20.5
541430 2011 HZ_{58}	15.7	X	124.74333	338.04188	88.86557	12.59016	0.0840912	0.18627362	3.0364663	21	3 28.6	20.3
541431 2011 HA_{60}	15.6	X	178.12569	269.82453	81.55029	15.24939	0.2014478	0.17484691	3.1673598	21	3 1.3	21.2
541432 2011 HE_{63}	16.4	X	330.08387	119.11788	66.81923	10.68329	0.1251329	0.18043161	3.1016608	21	1 12.2	20.6
541433 2011 HG_{76}	17.6	X	264.86256	315.68940	352.34078	8.92288	0.1693886	0.28682427	2.2771525	21	3 6.5	21.0
541434 2011 HD_{79}	15.7	X	221.57611	171.32006	114.16099	10.47684	0.0492900	0.17498772	3.1656605	21	1 16.6	20.2
541435 2011 HJ_{80}	15.7	X	126.12213	270.22889	119.28876	11.61310	0.0682381	0.17683467	3.1435794	21	2 6.6	20.1
541436 2011 HL_{80}	16.1	X	301.33525	129.16882	123.95414	11.96189	0.1196837	0.18512756	3.0489853	21	2 27.9	20.4
541437 2011 HT_{85}	18.1	X	292.74218	230.83893	71.11407	5.69225	0.1476045	0.29242373	2.2479896	21	4 3.2	21.0
541438 2011 HQ_{88}	16.6	X	222.48005	221.88875	78.19453	11.28211	0.0943438	0.17615754	3.1516300	21	2 4.7	21.6
541439 2011 HB_{91}	17.1	X	152.65682	356.26400	20.60177	7.66951	0.1282289	0.28089273	2.3090981	21	2 13.8	20.3
541440 2011 HK_{91}	16.4	X	219.00996	274.68723	27.42276	15.63752	0.0150549	0.18099958	3.0951688	21	2 8.8	21.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
541441 2011 HA_{97}	16.7	X	37.81688	268.98742	230.80848	3.74310	0.0654588	0.18852330	3.0122616	21	2 21.6	20.6
541442 2011 HY_{102}	15.6	X	246.11127	133.84129	121.31225	12.13453	0.0473333	0.17732306	3.1378046	21	1 6.9	20.2
541443 2011 JF_{2}	16.3	X	330.68494	16.64721	202.00472	11.21390	0.0824720	0.18372763	3.0644537	21	2 23.2	20.6
541444 2011 JD_{4}	16.3	X	135.43213	281.02749	123.22058	12.12625	0.0621921	0.17989586	3.1078158	21	3 7.9	20.9
541445 2011 JN_{4}	18.0	X	274.03784	181.72284	93.96391	8.82488	0.1005758	0.27863401	2.3215603	21	2 11.9	21.3
541446 2011 JD_{5}	16.0	X	51.78070	350.28894	115.41783	10.35171	0.0587216	0.17539916	3.1607080	21	2 3.6	20.2
541447 2011 JL_{5}	15.5	X	261.74966	153.62102	97.62474	18.41022	0.1770625	0.17553176	3.1591161	21	1 8.5	20.5
541448 2011 JY_{5}	15.9	X	284.96853	99.11806	118.75346	11.92538	0.0815120	0.17219224	3.1998307	21	1 3.2	20.6
541449 2011 JY_{8}	16.2	X	182.66353	186.06521	157.12168	13.66184	0.0669720	0.17512805	3.1639692	21	2 11.5	21.0
541450 2011 JH_{9}	16.6	X	210.76860	316.87532	27.77596	9.49564	0.1389976	0.18722557	3.0261650	21	3 15.7	21.6
541451 2011 JC_{12}	17.9	X	313.81384	213.99861	47.17991	3.41562	0.1385135	0.28564978	2.2833901	21	3 6.7	20.7
541452 2011 JD_{14}	16.0	X	210.31053	233.01389	108.70295	19.08302	0.1413486	0.17952437	3.1121016	21	3 16.3	21.3
541453 2011 JB_{16}	15.7	X	198.69679	253.53241	68.56260	10.25598	0.0630809	0.17488325	3.1669211	21	2 7.4	20.6
541454 2011 JT_{18}	16.3	X	65.63627	331.79797	126.73997	10.88620	0.0142790	0.17832929	3.1259901	21	2 8.5	20.6
541455 2011 JE_{20}	15.7	X	124.58599	312.97670	49.72364	17.26288	0.0444020	0.17104070	3.2141766	21	—	—
541456 2011 JK_{23}	16.4	X	92.54622	347.02671	89.76525	15.92012	0.1337457	0.18015558	3.1048282	21	3 10.2	20.9
541457 2011 JQ_{32}	16.3	X	245.11566	62.68536	213.29755	15.31698	0.0578358	0.17439568	3.1728209	21	1 25.7	21.4
541458 2011 KF_{5}	16.3	X	324.41113	153.57140	52.74118	10.03612	0.0687071	0.17959841	3.1112462	21	2 9.5	20.7
541459 2011 KH_{5}	16.0	X	270.08182	15.63533	233.54477	9.16853	0.0763749	0.17434718	3.1734094	21	1 21.1	20.8
541460 2011 KM_{5}	16.6	X	70.76979	116.52322	35.19590	8.14285	0.1089532	0.19539586	2.9412085	21	5 1.3	20.4
541461 2011 KA_{29}	17.7	X	302.26309	226.62920	78.57388	7.00464	0.1842609	0.28792980	2.2713199	21	4 15.7	20.6
541462 2011 KV_{39}	17.7	X	198.50624	276.84076	44.34884	7.00064	0.1397526	0.26477936	2.4018541	21	1 24.2	21.5
541463 2011 KY_{40}	16.0	X	231.86494	48.23599	249.42582	14.06038	0.0697503	0.17151880	3.2082009	21	2 4.6	21.2
541464 2011 KX_{42}	18.0	X	295.58369	209.39296	67.15195	6.61604	0.1344948	0.28411674	2.2915966	21	3 6.7	21.1
541465 2011 KJ_{43}	16.5	X	21.08784	308.96393	218.74003	9.29998	0.1181127	0.18575203	3.0421480	21	3 3.2	20.3
541466 2011 KY_{43}	18.1	X	198.63872	194.86391	135.06725	3.24369	0.2072960	0.26764167	2.3846989	21	2 4.2	22.1
541467 2011 KU_{44}	18.0	X	239.44043	236.58909	79.71400	7.16160	0.1317618	0.27665765	2.3326035	21	2 26.2	21.6
541468 2011 KL_{46}	16.4	X	176.37285	134.82400	272.40872	9.75056	0.0193611	0.18817631	3.0159635	21	4 16.3	20.8
541469 2011 LX	18.1	X	224.65506	73.05977	232.20129	11.67301	0.3155474	0.25749141	2.4469638	21	1 23.9	22.9
541470 2011 LN_{1}	16.7	X	348.80700	114.46874	74.76686	9.44104	0.1298377	0.18345534	3.0674853	21	2 13.4	20.6
541471 2011 LY_{9}	17.3	X	250.06009	181.99955	92.14424	6.43383	0.2409694	0.26783617	2.3835443	21	1 9.0	21.3
541472 2011 LM_{14}	16.5	X	354.46471	26.02304	151.66496	11.89911	0.1257399	0.17881682	3.1203057	21	2 4.6	20.5
541473 2011 LO_{14}	19.1	X	26.57298	39.37792	229.02676	21.24754	0.0413597	0.40233907	1.8172217	21	7 21.8	21.2
541474 2011 LL_{15}	17.8	X	316.09521	254.71298	22.88856	5.46378	0.1786437	0.28753477	2.2733997	21	3 25.6	20.4
541475 2011 LO_{15}	15.9	X	338.45267	179.97260	36.83645	7.87177	0.0394596	0.18318120	3.0705449	21	3 14.9	20.1
541476 2011 LG_{17}	17.6	X	254.72784	79.72657	254.95590	19.79647	0.0762930	0.37473320	1.9054078	21	3 17.1	20.4
541477 2011 LK_{18}	17.7	X	262.62455	56.76650	262.67620	19.12499	0.1787578	0.37784086	1.8949457	21	2 23.5	21.0
541478 2011 LF_{24}	15.9	X	253.86514	218.32664	73.48116	28.45942	0.1148709	0.17661048	3.1462392	21	3 7.5	21.3
541479 2011 LX_{24}	18.3	X	229.92973	233.88659	95.81926	3.90284	0.2028245	0.27377764	2.3489336	21	3 2.5	22.1
541480 2011 LC_{26}	18.5	X	231.27621	276.38049	46.93556	6.10685	0.2408767	0.27280547	2.3545107	21	2 24.3	22.6
541481 2011 LS_{27}	17.6	X	103.20874	16.18518	113.82275	6.16188	0.0663708	0.29172706	2.2515672	21	5 5.7	20.3
541482 2011 LW_{27}	16.1	X	123.73283	235.82280	209.85177	10.03481	0.0834248	0.18655054	3.0334607	21	4 12.1	20.5
541483 2011 MF_{11}	15.8	X	221.61577	171.32609	127.50644	15.08675	0.1012124	0.17336316	3.1854063	21	1 31.1	20.7
541484 2011 ON_{2}	18.1	X	223.52465	116.08674	279.30421	9.32953	0.1232777	0.27668794	2.3324333	21	5 19.9	21.6
541485 2011 OU_{2}	17.9	X	270.92780	64.05187	234.74481	5.43248	0.1348004	0.26831054	2.3807341	21	3 3.3	21.4
541486 2011 OX_{11}	17.9	X	144.95924	236.44842	156.12095	2.51503	0.2103272	0.25574703	2.4580779	21	3 7.1	21.4
541487 2011 OG_{18}	17.1	X	97.49823	114.14208	312.06197	5.72862	0.0839069	0.25327986	2.4740147	21	2 2.7	20.1
541488 2011 OC_{31}	17.7	X	143.33222	307.80495	69.05553	5.80666	0.2602462	0.25074409	2.4906665	21	2 22.3	21.6
541489 2011 OM_{34}	17.7	X	188.98418	306.34340	87.27763	3.32093	0.1787363	0.26984627	2.3716928	21	4 15.9	21.6
541490 2011 OD_{35}	17.9	X	214.82794	31.43397	300.20533	6.02540	0.2461580	0.26240386	2.4163281	21	2 18.5	22.1
541491 2011 OF_{35}	17.8	X	186.64709	345.56747	345.85596	2.27656	0.1867913	0.25563716	2.4587822	21	1 27.9	21.6
541492 2011 OS_{36}	18.2	X	184.87484	349.78549	18.05798	1.72397	0.1995253	0.26165403	2.4209423	21	3 11.4	22.1
541493 2011 OQ_{39}	17.7	X	199.12006	5.65527	339.26349	1.25897	0.2386992	0.25819199	2.4425354	21	2 24.4	22.0
541494 2011 OY_{41}	18.3	X	245.06792	86.22407	229.96884	1.75252	0.1917498	0.26638602	2.3921869	21	2 25.6	22.0
541495 2011 OZ_{45}	17.6	X	20.59539	124.54231	97.90356	7.20175	0.0496144	0.28439378	2.2901081	21	5 10.2	20.1
541496 2011 OO_{49}	17.4	X	206.60146	218.76239	118.04954	17.40413	0.2445227	0.25851038	2.4405295	21	2 23.5	21.8
541497 2011 ON_{59}	15.3	X	62.44568	193.99449	193.81620	17.21468	0.3258168	0.12605224	3.9394508	21	—	—
541498 2011 OX_{60}	17.3	X	216.11472	33.65845	289.67246	11.73103	0.2034145	0.26095914	2.4252380	21	2 8.1	21.4
541499 2011 PK_{5}	17.7	X	217.91517	48.16816	279.90395	3.27899	0.1020894	0.26254421	2.4154669	21	2 17.3	21.2
541500 2011 PN_{13}	18.1	X	253.88607	224.09430	82.69143	4.15278	0.1646946	0.26676014	2.3899497	21	2 26.3	21.7
541501 2011 PQ_{16}	17.6	X	211.69409	243.13062	81.34902	2.24373	0.1925158	0.25795663	2.4440209	21	2 9.9	21.6
541502 2011 QR_{5}	17.4	X	217.36237	65.78217	249.77286	5.37767	0.1776532	0.25810412	2.4430898	21	2 1.4	21.5
541503 2011 QJ_{7}	17.6	X	196.16317	178.35641	187.09690	5.06627	0.2462475	0.26102834	2.4248094	21	3 18.1	21.7
541504 2011 QF_{16}	16.8	X	344.75989	53.37468	142.48429	7.42002	0.0334751	0.25645776	2.4535344	21	2 8.7	19.7
541505 2011 QA_{20}	17.4	X	314.50293	259.60719	339.56331	14.33465	0.0589968	0.25989123	2.4318772	21	2 21.9	20.4
541506 2011 QQ_{36}	17.9	X	220.43866	198.33318	145.94965	7.13919	0.1417439	0.26185997	2.4196728	21	3 14.5	21.7
541507 2011 QE_{37}	16.0	X	65.67344	232.93925	162.68525	11.68886	0.3068988	0.12534014	3.9543575	21	1 10.5	20.8
541508 2011 QK_{37}	17.3	X	147.05638	172.60371	212.81155	14.04547	0.1078581	0.25229644	2.4804395	21	2 12.4	21.1
541509 2011 QT_{40}	17.5	X	149.37741	66.36234	296.95186	13.11949	0.1654524	0.24583965	2.5236828	21	1 29.3	21.2
541510 2011 QL_{51}	18.0	X	242.29292	54.30684	263.72324	1.77309	0.1924422	0.26105058	2.4246717	21	2 25.9	21.8
541511 2011 QL_{52}	18.0	X	183.14782	90.51397	283.36848	4.00792	0.2264547	0.25867129	2.4395173	21	3 16.2	22.3
541512 2011 QL_{53}	17.4	X	39.68936	25.56014	148.94557	7.67403	0.0574721	0.26865062	2.3787245	21	4 2.6	20.0
541513 2011 QC_{69}	17.7	X	212.61574	350.59961	331.89497	5.44845	0.2145919	0.25607803	2.4559593	21	2 8.5	21.8
541514 2011 QR_{70}	18.2	X	165.93068	71.94874	314.54360	7.99147	0.2686724	0.25441375	2.4666584	21	3 18.9	22.5
541515 2011 QA_{73}	18.0	X	199.11003	4.70540	345.15739	4.66978	0.2176142	0.25761960	2.4461521	21	3 2.0	22.1
541516 2011 QQ_{73}	17.7	X	45.95149	267.46431	284.03594	5.63969	0.0510562	0.27260633	2.3556572	21	5 1.9	20.4
541517 2011 QR_{79}	17.8	X	215.84173	262.96323	63.61344	4.63667	0.1280235	0.25566636	2.4585950	21	2 17.6	21.6
541518 2011 QR_{83}	17.6	X	245.52283	225.97623	66.75045	0.51969	0.2058639	0.25984714	2.4321523	21	1 29.7	21.5
541519 2011 QH_{88}	18.0	X	162.91154	259.01544	132.04293	2.55554	0.2588281	0.25300428	2.4758109	21	3 26.0	22.2
541520 2011 QO_{90}	17.7	X	262.28094	105.48983	175.04028	1.33635	0.1502807	0.26210350	2.4181738	21	2 1.1	21.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
541521 2011 QY_{92}	17.7	X	245.05947	101.91811	207.22655	6.18410	0.2200851	0.26123940	2.4235032	21	2 14.9	22.0
541522 2011 QD_{97}	16.4	X	287.21453	230.36688	125.11369	11.50929	0.2361841	0.17995237	3.1071652	21	6 2.1	21.0
541523 2011 QE_{98}	15.8	X	74.37804	332.47157	56.03791	10.36209	0.3045756	0.12482484	3.9652329	21	1 17.4	20.9
541524 2011 QY_{98}	17.1	X	305.32188	240.85701	61.20773	7.32305	0.1023620	0.27342502	2.3509526	21	4 29.1	19.8
541525 2011 RM_{2}	18.1	X	209.15634	143.19423	180.40161	6.71033	0.1769668	0.25392812	2.4698023	21	2 4.9	22.3
541526 2011 RY_{3}	18.0	X	148.41742	284.00104	115.28547	10.52108	0.2357329	0.24713111	2.5148829	21	3 26.4	22.2
541527 2011 RP_{4}	16.2	X	76.34409	309.41983	80.45906	4.05519	0.2817272	0.12544275	3.9522007	21	1 17.0	21.2
541528 2011 RO_{5}	17.8	X	184.19376	178.51894	277.10350	6.30882	0.0624758	0.28250828	2.3002865	21	6 29.9	20.8
541529 2011 RM_{7}	17.7	X	9.16515	228.80937	329.02286	5.88917	0.0649418	0.26223285	2.4173785	21	3 14.0	20.5
541530 2011 RS_{16}	17.9	X	252.72750	98.24965	226.23504	19.14163	0.0449913	0.36453034	1.9407977	21	3 6.3	20.7
541531 2011 RD_{20}	18.0	X	154.85042	289.34626	128.84372	2.63454	0.0202273	0.26214290	2.4179315	21	3 31.5	21.0
541532 2011 RR_{20}	17.8	X	246.81728	339.75738	316.79926	5.65345	0.1068938	0.25616427	2.4554081	21	2 9.4	21.4
541533 2011 RO_{21}	17.8	X	291.41117	0.53799	282.54775	1.69441	0.1768864	0.26529820	2.3987216	21	3 2.9	21.2
541534 2011 SR_{3}	18.3	X	130.72374	237.66364	195.88962	4.19220	0.1665951	0.25535459	2.4605958	21	4 8.7	21.7
541535 2011 SD_{13}	18.8	X	221.66150	202.88187	178.73092	23.64125	0.0825293	0.37033708	1.9204570	21	4 28.7	21.4
541536 2011 SE_{20}	17.8	X	170.21526	85.80192	242.81829	14.03189	0.3176905	0.24377445	2.5379161	21	1 16.8	22.5
541537 2011 ST_{20}	17.5	X	146.63034	137.25721	239.01561	14.35208	0.1534330	0.24420202	2.5349528	21	2 5.8	21.5
541538 2011 SF_{21}	17.6	X	252.18736	48.34195	293.81169	9.20218	0.1385374	0.26648024	2.3916229	21	4 5.7	21.4
541539 2011 ST_{23}	17.8	X	176.79306	5.24565	312.70191	2.97262	0.2578246	0.24199357	2.5503522	21	1 9.7	22.0
541540 2011 SM_{34}	17.7	X	192.97180	13.17402	26.34799	7.40390	0.2172912	0.26097319	2.4251510	21	4 25.8	21.9
541541 2011 SW_{36}	15.9	X	75.58831	299.14083	113.50727	4.13885	0.2341474	0.12710170	3.9177358	21	2 4.1	21.0
541542 2011 SL_{38}	17.6	X	68.57095	153.73935	340.26650	4.96710	0.1236363	0.25689249	2.4507656	21	3 27.5	20.1
541543 2011 SU_{45}	17.7	X	343.59930	264.80478	329.11489	6.47109	0.0555210	0.26505081	2.4002139	21	3 24.7	20.6
541544 2011 SW_{46}	18.0	X	147.51632	212.69683	199.99460	6.12382	0.1928798	0.25426629	2.4676119	21	4 1.8	21.8
541545 2011 ST_{48}	18.4	X	216.89510	102.59164	216.08924	0.90252	0.2574801	0.25535568	2.4605888	21	2 6.7	22.6
541546 2011 SA_{51}	18.1	X	151.56251	358.01130	73.05413	2.33347	0.1707875	0.25967050	2.4332551	21	4 27.9	21.7
541547 2011 SS_{57}	16.2	X	100.30599	327.56925	44.90177	3.86443	0.3380017	0.12432998	3.9757477	21	2 1.7	22.1
541548 2011 SU_{64}	17.7	X	200.98117	230.46468	182.82019	26.10714	0.1431062	0.36720897	1.9313480	21	5 19.2	20.9
541549 2011 ST_{66}	17.7	X	144.16524	156.29011	196.55716	5.34131	0.3202333	0.23864648	2.5741432	21	1 28.3	21.9
541550 2011 SR_{68}	18.3	X	300.44888	143.76368	191.08011	26.12802	0.0802033	0.38017252	1.8871897	21	6 6.5	20.8
541551 2011 SN_{70}	17.5	X	155.54536	139.64759	280.70809	5.99328	0.0978826	0.25708452	2.4495450	21	4 8.5	21.1
541552 2011 SG_{75}	18.4	X	204.87180	204.09472	187.37382	23.65721	0.0983823	0.36603089	1.9354898	21	4 21.1	20.8
541553 2011 SC_{94}	17.0	X	33.21283	329.41412	272.79257	4.01152	0.0573084	0.27358123	2.3500576	21	6 29.3	19.4
541554 2011 SL_{94}	17.8	X	190.36361	355.33235	74.88119	2.65349	0.1547166	0.26492302	2.4009857	21	6 2.0	21.6
541555 2011 SX_{96}	17.6	X	226.96541	334.41644	8.75649	1.86035	0.3327581	0.26067868	2.4269773	21	3 13.3	22.1
541556 2011 SJ_{115}	17.6	X	220.29017	244.88307	81.56917	2.54563	0.2055027	0.25635779	2.4541722	21	2 19.9	21.7
541557 2011 SK_{117}	18.0	X	172.34607	323.75788	353.96009	11.22780	0.2666095	0.24025402	2.5626479	21	1 8.6	22.5
541558 2011 SE_{122}	18.8	X	161.18475	178.88128	189.85084	12.36732	0.2593033	0.24578845	2.5240332	21	2 23.0	23.2
541559 2011 SN_{150}	15.7	X	163.32028	204.83685	181.48608	13.40131	0.0719792	0.15141689	3.4862070	21	3 17.7	20.8
541560 2011 SY_{161}	17.3	X	270.88071	337.24646	338.53062	6.55749	0.1073766	0.26431916	2.4046412	21	3 29.5	20.6
541561 2011 SA_{164}	18.7	X	26.03110	237.43368	13.75556	22.22094	0.0201718	0.37711760	1.8973678	21	6 27.2	21.1
541562 2011 SW_{176}	17.2	X	103.93944	73.86188	336.79316	8.50860	0.1648808	0.23814209	2.5777766	21	2 8.3	20.3
541563 2011 SX_{177}	18.8	X	154.96150	278.82678	198.94413	20.27566	0.0902540	0.37348392	1.9096544	21	6 23.2	21.6
541564 2011 SM_{185}	18.6	X	186.52581	35.79550	32.33688	21.39324	0.0809023	0.36578582	1.9363542	21	5 14.7	21.1
541565 2011 SW_{194}	17.7	X	238.25437	76.77867	245.98683	5.35634	0.1522613	0.25826363	2.4420837	21	2 28.4	21.6
541566 2011 ST_{196}	18.3	X	220.45121	325.62209	355.15921	2.91081	0.1881255	0.25599768	2.4564732	21	2 12.9	22.4
541567 2011 SX_{212}	18.2	X	271.25345	318.40639	14.81477	19.97653	0.0957556	0.37163548	1.9159813	21	4 12.6	20.3
541568 2011 SA_{218}	17.4	X	158.25322	209.66316	147.29100	12.80489	0.1980018	0.24172848	2.5522164	21	2 3.9	21.5
541569 2011 SQ_{218}	18.1	X	164.57645	312.63918	47.78284	11.64241	0.2485826	0.24603069	2.5223762	21	2 23.2	22.5
541570 2011 SF_{225}	17.4	X	99.90265	210.85353	263.81833	5.20681	0.1481443	0.25381806	2.4705162	21	4 21.5	20.6
541571 2011 SM_{232}	16.6	X	157.09898	55.83313	298.91350	13.71598	0.0406930	0.23860989	2.5744063	21	1 15.8	20.2
541572 2011 SS_{238}	17.7	X	81.30299	127.39285	8.98879	7.56266	0.1488265	0.25774480	2.4453599	21	4 24.4	20.6
541573 2011 SB_{239}	18.2	X	185.34016	52.62020	0.81920	3.59627	0.1172108	0.26491280	2.4010475	21	5 4.4	21.9
541574 2011 SJ_{240}	18.2	X	151.82004	69.60377	15.52915	3.03868	0.1598085	0.26206598	2.4184045	21	5 14.3	21.9
541575 2011 SX_{247}	15.8	X	173.64812	125.06227	256.07364	14.59470	0.2189258	0.24196526	2.5505511	21	3 13.4	20.4
541576 2011 SF_{254}	17.3	X	230.90486	322.83597	332.48476	12.99088	0.2309010	0.25527324	2.4611185	21	1 23.8	21.6
541577 2011 SF_{258}	15.7	X	78.63394	150.91060	235.36327	1.86750	0.2276160	0.12443470	3.9735168	21	1 7.8	20.8
541578 2011 SW_{265}	17.1	X	112.14794	227.41868	171.59847	4.04458	0.0381026	0.24717021	2.5146177	21	1 12.1	20.3
541579 2011 SA_{276}	18.0	X	180.74023	249.69232	119.37504	5.57707	0.2283635	0.25336851	2.4734376	21	3 13.2	22.2
541580 2011 SS_{277}	19.0	X	13.78063	66.66273	211.14971	21.34041	0.0466534	0.38711008	1.8645744	21	7 16.1	21.2
541581 2011 SR_{280}	17.9	X	158.60391	345.58301	15.69895	4.22370	0.1681937	0.24061233	2.5601031	21	2 9.1	21.8
541582 2011 TZ_{5}	16.4	X	188.30616	225.96293	82.82052	15.21512	0.1737586	0.23266304	2.6180893	21	1 4.6	20.7
541583 2011 TN_{8}	18.4	X	182.39489	78.24171	20.41249	20.17591	0.1025070	0.37775636	1.8952283	21	7 3.1	21.3
541584 2011 TU_{8}	17.4	X	207.53708	26.64719	1.79095	12.07813	0.2130214	0.26153934	2.4216499	21	4 20.9	21.6
541585 2011 TA_{11}	15.8	X	66.19077	333.03501	74.36351	3.93950	0.2467985	0.12537214	3.9536845	21	1 17.9	20.6
541586 2011 TZ_{11}	17.0	X	153.35993	355.30205	60.99160	7.31675	0.1159039	0.25399340	2.4693791	21	4 8.9	20.6
541587 2011 TG_{16}	16.5	X	50.50099	182.19831	279.01908	11.92986	0.1362737	0.23357292	2.6112857	21	1 14.4	19.3
541588 2011 UO_{3}	17.5	X	234.45665	352.28738	19.78975	5.48675	0.2064402	0.26651650	2.3914060	21	4 26.2	21.2
541589 2011 UG_{4}	18.2	X	348.50887	248.47423	23.52892	21.64931	0.1355807	0.37570940	1.9021058	21	5 2.8	19.5
541590 2011 UM_{12}	19.2	X	189.93562	68.34046	19.51902	21.13399	0.1121072	0.37159324	1.9161265	21	6 22.7	22.2
541591 2011 UQ_{12}	18.3	X	192.54381	359.16202	13.24399	1.51558	0.1766041	0.25342752	2.4730536	21	3 23.5	22.3
541592 2011 UP_{15}	18.0	X	276.11422	350.52444	4.70016	24.25074	0.0307172	0.37956564	1.8892008	21	5 30.2	20.6
541593 2011 UA_{28}	18.2	X	154.93571	64.45370	305.25887	3.63585	0.3199274	0.24265837	2.5456920	21	2 25.4	22.5
541594 2011 UT_{30}	18.6	X	125.13620	207.26242	211.61120	4.66358	0.2444145	0.24120716	2.5558925	21	3 24.4	22.5
541595 2011 UR_{31}	17.3	X	163.96968	146.07194	288.58703	8.14511	0.1849995	0.25924056	2.4359446	21	5 12.9	21.3
541596 2011 UP_{37}	17.9	X	179.00105	85.50806	245.03389	8.47845	0.2260814	0.24014267	2.5634400	21	1 21.9	22.3
541597 2011 UA_{39}	16.9	X	111.75917	206.15569	232.06989	12.73721	0.0501412	0.23957418	2.5674936	21	3 2.1	20.6
541598 2011 UA_{41}	16.0	X	52.51813	156.46214	272.28845	1.34489	0.1924904	0.12448803	3.9723818	21	1 14.2	20.8
541599 2011 UW_{43}	18.6	X	49.32817	216.02442	344.22790	20.79019	0.0044072	0.37499478	1.9045216	21	4 25.3	21.0
541600 2011 UF_{47}	15.9	X	87.71363	141.44686	247.07686	6.25783	0.3454259	0.12489027	3.9638479	21	2 4.5	21.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
541601 2011 UC_{51}	16.1	X	100.62694	206.04085	165.61756	3.03912	0.2762427	0.12448947	3.9723513	21	1 23.1	21.9
541602 2011 US_{52}	18.4	X	345.95050	251.75762	45.63497	23.36483	0.0330757	0.37441578	1.9064845	21	7 2.8	20.6
541603 2011 UH_{63}	17.0	X	153.42670	66.21602	325.49466	15.66814	0.2869566	0.24496000	2.5297209	21	3 15.1	21.5
541604 2011 UO_{64}	15.7	X	89.29421	352.05526	26.76884	8.81318	0.1952669	0.12418804	3.9787764	21	1 9.9	21.2
541605 2011 UU_{66}	17.5	X	60.46450	87.11027	122.39841	4.80629	0.1515842	0.27028771	2.3691098	21	7 10.2	20.0
541606 2011 UQ_{73}	17.6	X	168.76161	295.20043	49.68517	3.12878	0.1777556	0.23838904	2.5759960	21	1 30.5	21.6
541607 2011 UK_{81}	17.9	X	156.29699	313.10127	41.61089	7.90711	0.2202896	0.23865582	2.5740760	21	2 5.4	22.1
541608 2011 UT_{88}	17.6	X	114.45336	17.65758	49.26965	9.71213	0.1787132	0.23846374	2.5754581	21	3 20.6	21.2
541609 2011 UZ_{91}	17.5	X	22.28512	334.04769	255.13996	19.43314	0.0414437	0.36915868	1.9245417	21	5 11.3	19.2
541610 2011 UX_{98}	17.8	X	117.47328	29.32757	21.08663	13.43793	0.2895265	0.23851413	2.5750953	21	3 17.0	21.7
541611 2011 UF_{100}	17.8	X	280.62208	254.67710	41.36606	8.20092	0.1004303	0.25979693	2.4324656	21	3 22.3	21.1
541612 2011 UU_{101}	18.2	X	114.93388	12.89392	68.62198	7.85318	0.2692705	0.24198254	2.5504297	21	4 18.5	22.0
541613 2011 UO_{110}	18.4	X	24.61521	23.11506	222.98519	20.76443	0.0562055	0.37549750	1.9028214	21	6 15.2	20.2
541614 2011 UA_{114}	17.5	X	278.19405	259.29018	59.00808	6.17088	0.1190511	0.25999679	2.4312188	21	4 14.1	20.8
541615 2011 UO_{116}	17.5	X	196.98358	80.12919	226.74767	12.99984	0.2093114	0.24120721	2.5558922	21	1 7.6	22.0
541616 2011 UN_{117}	17.6	X	157.92294	25.85176	297.83619	4.95986	0.3299084	0.23717696	2.5847649	21	1 7.7	21.9
541617 2011 UG_{118}	16.9	X	150.06059	78.53599	303.08418	13.88814	0.1285679	0.24343102	2.5403025	21	2 15.8	20.6
541618 2011 UY_{125}	18.2	X	359.58098	48.73403	219.08474	22.24813	0.0616341	0.37356513	1.9093776	21	6 4.7	19.9
541619 2011 UE_{133}	16.9	X	239.79297	11.44684	252.18439	11.92180	0.1454789	0.23403363	2.6078576	21	—	—
541620 2011 UP_{133}	17.5	X	118.84235	321.48647	82.63245	14.97410	0.2471654	0.23686453	2.5870373	21	3 8.8	21.6
541621 2011 UK_{141}	17.8	X	160.99649	169.62124	171.18156	5.12816	0.3156011	0.24044333	2.5613026	21	1 27.1	22.2
541622 2011 UR_{141}	17.3	X	45.63975	96.77513	21.79562	5.40960	0.0573776	0.23362609	2.6108895	21	1 30.5	20.5
541623 2011 UV_{142}	18.1	X	190.19491	101.39812	240.40148	15.45462	0.1982019	0.24284401	2.5443945	21	2 7.7	22.7
541624 2011 UR_{146}	15.5	X	125.65315	328.33294	22.36033	2.35954	0.2485712	0.12353838	3.9927131	21	1 21.3	21.6
541625 2011 UF_{150}	16.2	X	80.79050	127.14573	253.16643	1.85481	0.3483283	0.12476541	3.9664920	21	1 20.6	21.4
541626 2011 UR_{154}	17.7	X	201.65058	174.72356	235.77162	13.74198	0.0559848	0.25848840	2.4406678	21	5 20.5	21.0
541627 2011 UE_{155}	16.5	X	133.70780	61.49767	316.85122	13.56263	0.1148540	0.23773077	2.5807491	21	1 28.2	19.9
541628 2011 UJ_{156}	17.2	X	134.05723	336.38393	215.18611	12.09239	0.1223371	0.27696119	2.3308989	21	9 9.5	20.8
541629 2011 UF_{157}	17.5	X	139.59810	208.44116	202.99691	2.83758	0.2661543	0.24326643	2.5414482	21	3 31.5	21.6
541630 2011 UH_{160}	17.7	X	112.11310	248.81822	253.24450	19.05770	0.0346770	0.36706699	1.9318460	21	5 23.6	19.5
541631 2011 UT_{172}	16.2	X	102.11857	173.29747	221.76554	33.32433	0.1861135	0.23203772	2.6227908	21	1 9.3	20.3
541632 2011 UX_{174}	17.5	X	228.25626	122.66176	181.21618	8.56325	0.1532236	0.24077011	2.5589846	21	1 30.4	21.7
541633 2011 UE_{180}	18.1	X	144.27027	1.78708	39.82559	5.01988	0.2640095	0.24229907	2.5482081	21	3 25.4	22.3
541634 2011 UG_{186}	18.4	X	354.80563	214.90423	49.23752	21.11151	0.0291783	0.36841748	1.9271221	21	5 20.2	19.9
541635 2011 UH_{187}	18.2	X	3.27437	187.13742	51.90444	21.87731	0.0471378	0.36337804	1.9448985	21	4 29.6	19.8
541636 2011 UE_{189}	16.8	X	270.31728	262.77685	162.19770	5.38838	0.2486081	0.18135686	3.0911024	21	8 4.5	21.2
541637 2011 UP_{191}	18.2	X	156.56568	1.85339	359.89309	5.29570	0.2670914	0.24231767	2.5480776	21	2 15.8	22.3
541638 2011 UK_{194}	17.9	X	143.81663	231.33643	217.12390	21.52238	0.0950484	0.35734870	1.9667142	21	4 26.8	19.7
541639 2011 UR_{196}	17.1	X	87.20943	50.02856	28.18014	14.98727	0.1101043	0.23569926	2.5955570	21	2 19.3	20.5
541640 2011 UA_{198}	16.7	X	138.81416	308.24553	276.69913	5.36330	0.0635175	0.19110227	2.9850996	21	10 17.8	21.2
541641 2011 UE_{198}	18.4	X	273.14430	11.31556	328.30611	20.10510	0.0948765	0.37158518	1.9161542	21	4 14.5	21.2
541642 2011 UD_{202}	17.7	X	120.12629	321.20064	83.06238	4.20023	0.1060200	0.23584798	2.5944658	21	2 13.0	21.2
541643 2011 UL_{202}	18.2	X	75.35162	65.11928	66.72539	5.70643	0.2143839	0.24076400	2.5590279	21	4 25.3	21.1
541644 2011 US_{203}	18.0	X	168.05166	267.51776	86.72500	3.24780	0.1603953	0.23824962	2.5770009	21	2 8.8	21.9
541645 2011 UP_{204}	17.4	X	139.69704	302.68896	101.98339	3.25857	0.0601657	0.24066878	2.5597028	21	3 2.5	20.8
541646 2011 UR_{238}	17.5	X	20.46182	320.75329	245.01026	5.69330	0.0946057	0.25216069	2.4813296	21	4 14.3	20.3
541647 2011 UB_{239}	18.3	X	6.50411	30.59351	229.38904	20.26707	0.0240059	0.36782281	1.9291986	21	6 5.9	20.1
541648 2011 UD_{240}	17.7	X	33.06179	144.46851	19.64168	6.20241	0.0614057	0.24528302	2.5274994	21	3 11.6	20.6
541649 2011 UH_{241}	17.4	X	205.23348	85.79433	235.85134	13.54212	0.1348814	0.24068160	2.5596119	21	1 27.8	21.7
541650 2011 UG_{244}	18.1	X	155.33644	199.20464	230.43176	19.96894	0.0514999	0.35480749	1.9760937	21	4 3.9	20.6
541651 2011 UO_{247}	17.7	X	159.94242	311.19381	53.23433	2.94950	0.1249934	0.23798948	2.5788784	21	2 10.4	21.5
541652 2011 UQ_{250}	17.4	X	149.18570	168.74915	222.59472	14.59186	0.1479303	0.24101727	2.5572348	21	2 27.8	21.5
541653 2011 UE_{258}	18.0	X	123.22498	184.46814	225.84624	14.31167	0.1485862	0.23989908	2.5651750	21	2 22.6	21.9
541654 2011 US_{259}	17.0	X	62.31203	227.15102	238.82857	14.75011	0.1375870	0.23378277	2.6097228	21	2 5.9	20.2
541655 2011 UF_{263}	18.4	X	24.75567	176.92787	54.26672	22.68993	0.0377862	0.36220780	1.9490853	21	5 20.1	19.8
541656 2011 UT_{263}	17.3	X	226.80768	240.35199	134.93853	5.63769	0.2054014	0.26363432	2.4088037	21	4 26.9	21.2
541657 2011 UZ_{268}	18.2	X	186.26769	142.49979	301.18795	0.99723	0.1805812	0.26602977	2.3943220	21	6 15.6	21.8
541658 2011 UD_{273}	15.4	X	130.16285	107.39062	335.30241	20.98848	0.1040859	0.15804180	3.3880884	21	4 10.3	20.8
541659 2011 UG_{274}	17.7	X	345.40427	328.71053	257.67150	5.19697	0.0532624	0.25401823	2.4692181	21	3 18.4	20.7
541660 2011 UU_{274}	16.5	X	238.34841	212.37452	34.20064	14.17802	0.2254043	0.22967538	2.6407447	21	—	—
541661 2011 UE_{275}	16.8	X	265.51375	90.02574	350.19004	2.81280	0.0987247	0.18513129	3.0489443	21	9 9.6	21.0
541662 2011 UE_{276}	17.5	X	141.44635	125.35994	260.42164	7.99276	0.1743638	0.23881965	2.5728986	21	2 17.6	21.4
541663 2011 UP_{278}	17.6	X	93.19468	22.98760	45.34022	8.80264	0.0444218	0.23260332	2.6185374	21	2 1.8	21.1
541664 2011 UQ_{307}	17.0	X	119.08038	153.02649	245.89935	21.43564	0.0637425	0.23667155	2.5884435	21	1 20.2	20.9
541665 2011 UD_{308}	17.3	X	185.34680	44.31357	294.57404	5.96272	0.2231768	0.24190208	2.5509952	21	2 6.7	21.5
541666 2011 UH_{319}	17.8	X	148.97193	269.10985	104.08384	2.43561	0.1894075	0.23734253	2.5835627	21	2 15.9	21.6
541667 2011 UJ_{323}	17.6	X	249.95385	71.20854	229.52477	12.64973	0.2327384	0.25539849	2.4603138	21	2 6.3	22.0
541668 2011 UK_{325}	17.3	X	28.12486	130.46623	21.37088	14.97992	0.0650965	0.24374017	2.5381541	21	2 21.1	20.5
541669 2011 UG_{332}	17.5	X	283.15443	230.14098	51.55628	15.22983	0.1238119	0.25971438	2.4329810	21	3 8.9	21.2
541670 2011 UQ_{332}	16.7	X	249.92568	197.93610	83.57828	12.01296	0.1191493	0.24501999	2.5293079	21	1 28.0	20.6
541671 2011 UY_{335}	15.3	X	81.93812	184.09718	213.81827	8.10515	0.2050527	0.12605167	3.9394625	21	1 20.1	20.6
541672 2011 UP_{336}	17.5	X	135.88766	58.34457	320.24830	13.30972	0.2219944	0.23927353	2.5696439	21	2 11.7	21.3
541673 2011 UR_{339}	18.5	X	165.82740	2.25315	36.32990	5.44259	0.2411592	0.25198126	2.4825074	21	4 5.7	22.7
541674 2011 UG_{362}	18.1	X	158.40078	183.88566	216.36300	4.23327	0.1189148	0.24506247	2.5290156	21	3 21.6	21.8
541675 2011 UK_{369}	17.9	X	114.72051	215.07994	203.37154	5.51370	0.1985980	0.23702359	2.5858798	21	3 6.5	21.6
541676 2011 UF_{378}	17.7	X	104.61320	133.66187	99.98556	6.50344	0.0621631	0.28912473	2.2650574	21	10 6.4	20.7
541677 2011 UD_{383}	17.0	X	66.65691	209.61600	40.14262	6.57929	0.1341620	0.28261825	2.2996898	21	9 18.2	19.8
541678 2011 UL_{383}	17.7	X	171.58978	325.77126	15.39264	9.13604	0.1735817	0.23818190	2.5774894	21	1 30.6	21.9
541679 2011 UL_{384}	17.7	X	184.68888	163.22416	281.18572	7.03801	0.0607577	0.26461879	2.4028257	21	6 15.1	20.9
541680 2011 UB_{385}	17.0	X	243.70605	271.64910	26.36908	12.31734	0.1101717	0.24376820	2.5379595	21	2 15.5	21.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
541681 2011 UW_{390}	17.6	X	88.64798	288.30680	156.65370	9.14697	0.2607399	0.23686667	2.5870218	21	3 19.9	20.6
541682 2011 UD_{394}	16.9	X	16.12758	107.10150	60.75066	14.26090	0.0969362	0.24393723	2.5367869	21	2 22.4	20.1
541683 2011 UM_{394}	16.5	X	136.64336	4.26472	90.01163	7.46097	0.2900630	0.23789279	2.5795772	21	5 24.5	20.9
541684 2011 UP_{398}	16.5	X	203.76276	20.15143	278.86926	13.82508	0.0836681	0.23564259	2.5959731	21	1 2.8	20.4
541685 2011 UF_{399}	17.3	X	299.45274	145.05626	78.28628	7.36661	0.1192184	0.23962740	2.5671134	21	1 8.0	20.8
541686 2011 UQ_{399}	18.2	X	187.49081	351.46687	98.23083	2.42392	0.1491954	0.26791841	2.3830565	21	6 24.9	22.0
541687 2011 UE_{402}	18.6	X	85.67275	112.54111	76.98528	23.36193	0.0606824	0.36633127	1.9344316	21	7 1.9	20.5
541688 2011 UB_{405}	16.1	X	65.87881	270.13197	152.66300	4.71066	0.2822704	0.12600879	3.9403563	21	2 8.5	20.9
541689 2011 UO_{415}	16.7	X	290.43822	355.55724	255.72141	13.41283	0.1638534	0.24270680	2.5453534	21	1 22.6	20.7
541690 2011 UB_{419}	17.6	X	218.19915	223.90994	89.16342	5.33364	0.1744366	0.24244808	2.5471639	21	2 4.2	21.9
541691 2011 VC_{3}	16.5	X	54.23295	105.27360	354.99489	13.65325	0.1233042	0.23285250	2.6166689	21	1 25.6	19.6
541692 2011 VU_{10}	17.5	X	147.53894	310.01349	70.86642	9.80290	0.1750499	0.23769557	2.5810039	21	2 26.4	21.6
541693 2011 VX_{19}	17.4	X	131.30420	72.80442	318.75081	11.96832	0.1558796	0.23683267	2.5872693	21	2 14.6	21.1
541694 2011 WZ	17.5	X	220.60331	64.55716	248.04754	15.67786	0.1710602	0.23995371	2.5647856	21	1 29.9	22.0
541695 2011 WA_{1}	17.3	X	148.01093	109.52299	244.23529	12.11658	0.2042789	0.23186592	2.6240862	21	1 20.6	21.5
541696 2011 WC_{1}	16.9	X	91.79113	204.57513	245.13403	12.44660	0.2103812	0.23540268	2.5977366	21	3 15.3	20.4
541697 2011 WE_{5}	17.3	X	108.57814	160.19495	268.12831	12.99230	0.2269411	0.23684719	2.5871636	21	3 10.1	21.1
541698 2011 WZ_{6}	16.3	X	199.69445	37.91474	240.03516	13.13756	0.2386755	0.22849504	2.6498312	21	—	—
541699 2011 WA_{9}	18.3	X	93.08516	99.12422	17.64917	1.04633	0.1299864	0.24494661	2.5298131	21	4 14.7	21.5
541700 2011 WO_{12}	17.7	X	176.77390	101.92559	243.21033	6.89092	0.1126841	0.23856673	2.5747168	21	1 30.3	21.7
541701 2011 WL_{16}	16.8	X	119.68843	198.49026	211.08073	4.73989	0.2581923	0.23638181	2.5905581	21	3 8.9	20.5
541702 2011 WX_{16}	17.7	X	157.47286	144.34849	242.63862	11.07807	0.1924240	0.24218896	2.5489803	21	3 6.7	22.0
541703 2011 WM_{28}	18.0	X	155.93729	119.20178	248.63806	11.79663	0.2042537	0.24001809	2.5643270	21	2 11.2	22.3
541704 2011 WC_{30}	17.2	X	142.75001	206.33529	220.61593	17.37449	0.1801668	0.24544392	2.5263947	21	4 13.7	21.2
541705 2011 WS_{30}	17.9	X	2.09927	201.77591	60.70981	22.99145	0.0542964	0.36730898	1.9309974	21	5 30.4	19.2
541706 2011 WJ_{40}	16.6	X	295.49176	221.65887	192.25516	10.99211	0.1884156	0.18592667	3.0402427	21	9 1.1	20.6
541707 2011 WR_{40}	17.8	X	181.16524	121.50872	244.42403	3.28924	0.1956313	0.24443702	2.5333278	21	3 5.5	22.1
541708 2011 WZ_{41}	18.3	X	178.11398	243.98950	218.16521	20.03978	0.1015499	0.36762967	1.9298743	21	6 27.8	21.1
541709 2011 WQ_{43}	16.8	X	111.02657	162.92351	237.11443	12.77511	0.1798137	0.23131286	2.6282673	21	2 1.1	20.5
541710 2011 WU_{49}	18.0	X	136.84462	250.82852	242.29634	17.82363	0.0693836	0.36269816	1.9473282	21	6 20.7	20.2
541711 2011 WZ_{50}	18.7	X	150.76637	333.27258	66.39498	6.69798	0.2549163	0.24396185	2.5366163	21	3 29.3	22.9
541712 2011 WO_{52}	17.2	X	90.21193	206.42004	249.07304	10.87624	0.1448754	0.23709308	2.5853745	21	3 10.3	20.6
541713 2011 WW_{55}	17.6	X	340.20507	111.01539	177.69877	1.99402	0.0846532	0.26751336	2.3854614	21	6 7.8	20.0
541714 2011 WM_{57}	18.3	X	126.68536	223.05480	204.61725	2.07629	0.1526521	0.24195538	2.5506206	21	3 26.8	22.0
541715 2011 WW_{60}	17.7	X	167.75523	222.61031	153.17148	2.82616	0.1824650	0.24242058	2.5473565	21	3 7.1	21.5
541716 2011 WR_{61}	16.0	X	30.97800	217.64814	64.27079	15.66820	0.1711290	0.17956710	3.1116079	21	9 10.5	20.1
541717 2011 WR_{65}	16.6	X	117.04132	134.42357	265.11058	16.38897	0.0824037	0.22909279	2.6452198	21	1 25.2	20.4
541718 2011 WE_{66}	17.0	X	76.27802	216.43162	278.58607	14.58752	0.0621985	0.24050760	2.5608463	21	3 27.9	20.6
541719 2011 WM_{67}	17.5	X	138.91708	304.01351	87.98933	15.38021	0.1163569	0.23758187	2.5818272	21	2 25.7	21.5
541720 2011 WW_{68}	17.2	X	158.47490	338.38771	49.00260	5.01580	0.2416563	0.24308612	2.5427048	21	3 18.9	21.4
541721 2011 WX_{69}	17.8	X	218.95775	326.46817	52.73281	22.82073	0.0783669	0.36179798	1.9505569	21	4 25.6	20.3
541722 2011 WZ_{72}	17.8	X	130.26678	6.79663	38.16242	8.77676	0.1643952	0.23838167	2.5760492	21	3 8.3	21.6
541723 2011 WN_{73}	16.4	X	126.96697	127.92399	251.85529	30.83966	0.2821879	0.23416298	2.6068971	21	1 29.1	21.0
541724 2011 WE_{78}	17.0	X	238.95120	64.27459	252.59159	14.21093	0.1423449	0.24546551	2.5262465	21	2 19.6	21.3
541725 2011 WS_{88}	17.4	X	148.03308	140.06278	272.95583	5.37238	0.1250384	0.24258624	2.5461966	21	3 25.9	21.3
541726 2011 WG_{90}	17.6	X	152.74616	116.17582	249.50716	8.27113	0.1342056	0.23382971	2.6093735	21	2 1.7	21.6
541727 2011 WH_{91}	17.5	X	75.72295	43.94258	63.58372	11.04072	0.1474520	0.23069888	2.6329285	21	3 18.4	20.8
541728 2011 WA_{99}	18.5	X	157.78291	270.53399	109.81654	10.90616	0.2758654	0.24595651	2.5228833	21	3 14.1	22.9
541729 2011 WL_{99}	17.4	X	88.56430	350.09251	131.37215	6.16793	0.0984519	0.24366467	2.5386783	21	4 12.9	20.6
541730 2011 WP_{102}	16.3	X	105.66099	218.20001	162.46819	3.13642	0.2903373	0.12530897	3.9550133	21	2 8.5	22.1
541731 2011 WH_{105}	17.3	X	160.42053	90.92918	253.60168	10.36915	0.2061883	0.23440123	2.6051303	21	1 21.6	21.6
541732 2011 WW_{105}	17.4	X	150.85210	66.25337	8.32528	16.78170	0.1201154	0.24325735	2.5415115	21	4 23.1	21.4
541733 2011 WS_{107}	16.9	X	188.35060	94.88632	218.68460	6.19471	0.0389914	0.22725730	2.6594438	21	1 2.4	20.7
541734 2011 WU_{107}	17.0	X	158.20882	175.84561	164.41966	3.20502	0.1904793	0.23119178	2.6291849	21	1 15.8	21.2
541735 2011 WW_{110}	17.3	X	110.76650	319.05730	89.83969	12.47403	0.0574704	0.23143499	2.6273426	21	2 1.2	20.8
541736 2011 WZ_{111}	18.2	X	107.81973	195.16371	259.38052	6.86772	0.2591531	0.24066072	2.5597599	21	4 21.5	21.9
541737 2011 WM_{112}	17.4	X	159.29861	54.99412	345.80296	3.64980	0.2152168	0.24566814	2.5248572	21	3 30.9	21.5
541738 2011 WT_{112}	17.6	X	111.70079	159.46954	267.25386	10.95240	0.1930091	0.23703649	2.5857860	21	3 8.2	21.3
541739 2011 WV_{113}	16.8	X	231.07597	270.71664	57.61877	6.56455	0.1162094	0.24301190	2.5432225	21	3 9.9	20.7
541740 2011 WC_{118}	17.0	X	116.42053	97.10318	340.53569	12.46558	0.1536842	0.24272671	2.5452142	21	3 24.2	20.6
541741 2011 WD_{118}	16.8	X	179.86849	16.68756	313.98684	13.18283	0.1947747	0.23827495	2.5768182	21	1 24.6	21.0
541742 2011 WC_{119}	17.0	X	97.54679	48.75066	48.74547	12.44250	0.1072337	0.24109718	2.5566697	21	3 28.8	20.4
541743 2011 WU_{119}	17.9	X	151.70069	74.45027	58.89594	22.73649	0.1034424	0.36736147	1.9308134	21	7 18.2	20.8
541744 2011 WL_{120}	17.0	X	25.02056	296.98023	248.75782	12.78361	0.1679700	0.24031114	2.5622418	21	3 21.5	19.7
541745 2011 WY_{121}	17.0	X	254.92372	35.41143	244.08337	14.28944	0.0721092	0.23833475	2.5763872	21	1 27.9	21.0
541746 2011 WK_{125}	17.5	X	163.96454	325.91735	35.31811	13.12155	0.1108037	0.23827362	2.5768279	21	2 14.3	21.5
541747 2011 WH_{128}	18.2	X	347.60908	2.33175	259.97615	18.63625	0.0371352	0.36240031	1.9483950	21	5 3.0	20.3
541748 2011 WS_{136}	17.4	X	122.72961	308.04533	112.14850	3.65138	0.1282793	0.23851773	2.5750694	21	3 11.6	20.9
541749 2011 WW_{137}	17.6	X	138.36516	260.07407	155.22246	1.67069	0.1497914	0.24121864	2.5558114	21	3 24.4	21.3
541750 2011 WK_{139}	18.3	X	123.65919	283.34007	249.68571	19.40179	0.0571225	0.36969113	1.9226934	21	7 26.9	20.8
541751 2011 WR_{141}	18.0	X	143.28246	335.76553	51.94413	6.00001	0.1863579	0.24021849	2.5629006	21	3 1.7	21.9
541752 2011 WS_{146}	17.6	X	99.15810	310.99671	214.26390	6.14334	0.0980135	0.26065952	2.4270962	21	6 23.8	20.8
541753 2011 WX_{146}	16.7	X	169.52372	94.37616	243.68438	23.79413	0.1778680	0.23245642	2.6196404	21	1 15.5	21.3
541754 2011 WB_{148}	17.0	X	175.72133	271.34791	79.12374	8.69665	0.1623082	0.23737608	2.5833193	21	2 13.7	21.2
541755 2011 WG_{150}	17.1	X	147.76122	54.04758	292.07003	13.20918	0.2059061	0.23505823	2.6002738	21	1 14.1	21.1
541756 2011 WF_{151}	17.8	X	181.11565	296.91861	119.70017	7.97258	0.2253483	0.25796772	2.4439509	21	5 11.2	22.0
541757 2011 WX_{151}	17.1	X	175.00849	69.86703	293.10798	12.52982	0.1341458	0.24459128	2.5322626	21	2 17.9	21.1
541758 2011 WA_{153}	17.1	X	192.58423	216.79498	128.48121	12.18378	0.1569982	0.24250890	2.5467379	21	2 20.4	21.2
541759 2011 WT_{153}	16.9	X	180.57873	137.08966	215.53265	21.18594	0.0369247	0.23588606	2.5941865	21	2 3.1	21.1
541760 2011 WZ_{153}	16.8	X	45.04553	235.00580	275.19877	13.99068	0.1028134	0.24361507	2.5390229	21	3 3.0	20.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
541761 2011 WH_{154}	17.2	X	161.83672	234.93125	167.41380	15.44883	0.1224472	0.24567857	2.5247857	21	3 31.6	21.0
541762 2011 WM_{154}	16.3	X	144.67400	83.79835	257.22379	28.77734	0.2725989	0.23476287	2.6024543	21	1 5.9	20.7
541763 2011 WE_{158}	17.1	X	103.65029	335.12443	108.29079	10.73221	0.1211505	0.22912277	2.6449891	21	3 21.5	20.7
541764 2011 WM_{158}	17.7	X	136.54183	148.62220	253.91868	9.81692	0.1252795	0.23768043	2.5811135	21	2 26.3	21.5
541765 2011 WB_{159}	17.6	X	190.34988	98.95010	234.39255	1.99080	0.2260944	0.23884335	2.5727284	21	2 4.9	22.1
541766 2011 WM_{159}	16.9	X	191.45370	288.13649	67.96522	14.46697	0.1143170	0.23635430	2.5907592	21	3 10.3	21.2
541767 2011 XR_{1}	17.3	X	172.00086	205.00973	182.70839	3.93709	0.1996754	0.24475431	2.5311380	21	3 25.9	21.5
541768 2011 XY_{2}	17.8	X	200.96631	229.34931	218.71294	20.34881	0.0886521	0.36888164	1.9255052	21	7 4.5	20.7
541769 2011 YH	18.2	X	240.01020	208.64473	236.64270	20.53773	0.0677348	0.37905379	1.8909011	21	8 21.9	20.9
541770 2011 YF_{4}	17.6	X	94.38044	140.78634	279.19112	8.14822	0.2212247	0.22724197	2.6595634	21	2 13.4	21.0
541771 2011 YW_{5}	16.7	X	96.78893	145.79038	294.11167	13.17319	0.2249418	0.23005152	2.6378655	21	3 10.8	20.4
541772 2011 YY_{7}	17.4	X	134.04028	160.08784	259.59606	7.17762	0.1861269	0.23718239	2.5847254	21	3 25.9	21.5
541773 2011 YC_{10}	17.6	X	40.25530	130.08327	42.41700	4.98792	0.1642002	0.23476510	2.6024378	21	4 11.9	20.0
541774 2011 YQ_{11}	17.6	X	136.71199	95.73941	280.33966	14.44739	0.3576156	0.23327206	2.6135304	21	2 17.9	22.2
541775 2011 YS_{12}	17.4	X	113.69885	174.20879	237.44582	1.67221	0.2006125	0.22865268	2.6486131	21	2 26.9	20.9
541776 2011 YZ_{12}	17.2	X	219.95271	355.00410	78.72176	7.55583	0.0655796	0.26821416	2.3813044	21	7 14.4	20.5
541777 2011 YU_{14}	17.1	X	75.96079	158.47981	307.52435	13.45090	0.1121509	0.22750794	2.6574903	21	2 28.2	20.4
541778 2011 YH_{15}	17.5	X	132.59690	202.19742	223.79068	4.83677	0.2589510	0.23748537	2.5825267	21	4 11.5	21.6
541779 2011 YP_{15}	17.7	X	158.91093	278.94245	126.82322	5.42971	0.1995733	0.24361114	2.5390502	21	4 8.1	21.8
541780 2011 YN_{16}	18.7	X	128.24720	168.80527	261.84990	3.49779	0.2589761	0.24271834	2.5452727	21	4 12.3	22.7
541781 2011 YW_{18}	17.7	X	213.94660	271.91282	300.41028	5.55332	0.0688010	0.29843403	2.2177052	21	—	—
541782 2011 YM_{19}	17.6	X	115.88919	30.29840	66.84501	4.02272	0.1379495	0.23925658	2.5697653	21	4 21.4	21.1
541783 2011 YN_{25}	17.2	X	135.38527	126.79654	291.15207	12.32170	0.2187481	0.23585095	2.5944439	21	3 25.3	21.5
541784 2011 YP_{28}	17.0	X	166.43078	274.00427	83.13097	5.84046	0.1499430	0.23580482	2.5947824	21	2 11.2	21.0
541785 2011 YO_{29}	16.6	X	118.63279	276.55927	110.13130	15.32731	0.1519059	0.22415033	2.6839626	21	1 27.9	20.2
541786 2011 YV_{30}	17.3	X	93.35126	23.73514	108.71438	13.02884	0.2144697	0.23774560	2.5806417	21	5 24.2	21.0
541787 2011 YG_{36}	17.4	X	139.04517	309.17165	97.58978	5.39082	0.2380990	0.23463986	2.6033638	21	3 26.6	21.6
541788 2011 YU_{37}	16.5	X	354.09558	290.99592	302.00639	11.52727	0.1320161	0.23293489	2.6160519	21	4 1.6	19.7
541789 2011 YJ_{38}	16.1	X	143.82316	119.16850	277.99257	13.67342	0.1917506	0.23268965	2.6178896	21	3 4.9	20.5
541790 2011 YO_{38}	17.6	X	326.29673	89.07102	275.90278	17.62275	0.0763584	0.37863977	1.8922793	21	9 9.9	19.6
541791 2011 YU_{39}	17.1	X	126.26831	90.32006	335.37748	27.76733	0.3544529	0.23534107	2.5981900	21	3 31.4	21.9
541792 2011 YZ_{43}	16.4	X	89.15393	160.30398	283.98689	21.11475	0.0451132	0.22734655	2.6587478	21	2 6.6	20.2
541793 2011 YA_{44}	17.1	X	51.56097	222.04292	282.45841	14.46392	0.2011888	0.22971649	2.6404297	21	3 18.3	20.1
541794 2011 YX_{46}	18.2	X	121.09590	21.29909	47.55869	3.24142	0.2544042	0.23483265	2.6019387	21	4 5.7	22.2
541795 2011 YJ_{59}	17.4	X	149.80076	278.82024	107.55633	4.32011	0.2320633	0.23178906	2.6246663	21	3 10.3	21.6
541796 2011 YG_{60}	17.2	X	326.51681	338.35219	239.77952	3.70144	0.0268043	0.22497242	2.6774202	21	2 18.5	20.7
541797 2011 YW_{61}	17.2	X	123.18405	284.60424	105.73365	9.01269	0.1253574	0.23164309	2.6257688	21	2 2.3	20.8
541798 2011 YB_{62}	17.7	X	158.66502	56.28001	119.17322	23.20163	0.0710530	0.37361165	1.9092191	21	10 9.5	20.6
541799 2011 YE_{64}	16.7	X	56.00788	206.48308	301.05440	15.24091	0.2801500	0.22937249	2.6430690	21	4 14.6	19.7
541800 2011 YP_{64}	17.9	X	125.23549	20.58629	40.95339	2.47223	0.2036711	0.23678399	2.5876239	21	3 25.4	21.7
541801 2011 YY_{65}	18.1	X	138.96198	154.77712	261.51763	6.08303	0.3226750	0.23947334	2.5682144	21	4 8.7	22.5
541802 2011 YO_{66}	17.3	X	64.13019	32.46047	78.89160	8.79084	0.0878072	0.22449640	2.6812036	21	2 24.3	20.7
541803 2011 YQ_{67}	17.7	X	86.47846	175.71774	316.48504	6.96310	0.3115705	0.23480549	2.6021394	21	5 24.8	21.4
541804 2011 YW_{68}	17.1	X	96.04366	134.17385	296.84133	12.32856	0.2370995	0.22971347	2.6404528	21	3 1.7	20.6
541805 2011 YE_{72}	17.5	X	79.98688	349.80781	125.12100	9.11580	0.1809144	0.23120035	2.6291199	21	4 7.4	20.8
541806 2011 YX_{75}	17.8	X	36.78412	81.80333	74.70432	10.48295	0.1448660	0.22712495	2.6604768	21	3 18.1	20.8
541807 2011 YK_{78}	16.7	X	117.83862	122.35126	292.87869	24.15651	0.1182840	0.22621544	2.6676032	21	2 15.2	20.7
541808 2011 YC_{79}	17.2	X	113.33777	273.44610	254.90147	9.20655	0.0560955	0.26402338	2.4064368	21	7 9.9	20.4
541809 2011 YS_{79}	17.1	X	332.32887	284.62850	306.63783	14.75970	0.0637538	0.23192705	2.6236252	21	3 4.4	20.7
541810 2011 YT_{79}	17.5	X	143.81550	277.74737	125.94136	5.46167	0.1007045	0.22993367	2.6387667	21	3 13.1	21.3
541811 2012 AV	18.1	X	104.10178	86.14490	13.12064	27.64642	0.4163349	0.23543718	2.5974828	21	5 3.8	22.7
541812 2012 AV_{1}	17.5	X	69.40621	23.64412	110.16998	4.63241	0.1485714	0.23208825	2.6224101	21	4 9.5	20.5
541813 2012 AE_{5}	17.5	X	102.15101	62.55824	42.02428	1.73956	0.1364649	0.23685468	2.5871090	21	4 12.9	20.9
541814 2012 AR_{5}	17.4	X	141.05045	290.51794	119.19317	12.33452	0.1868873	0.23542992	2.5975362	21	3 29.8	21.6
541815 2012 AL_{6}	17.7	X	71.80802	7.04481	128.12135	9.49806	0.2266192	0.23147265	2.6270576	21	4 30.2	20.9
541816 2012 AM_{7}	18.0	X	90.22946	87.64841	114.80408	24.19589	0.0718375	0.36194477	1.9500295	21	8 4.8	20.0
541817 2012 AB_{10}	16.7	X	71.01210	209.46119	280.40571	12.25801	0.1161063	0.23059961	2.6336840	21	3 22.8	20.2
541818 2012 AX_{10}	17.3	X	294.48037	12.78160	343.27856	20.47724	0.0687862	0.36552484	1.9372758	21	7 13.1	19.6
541819 2012 AO_{11}	17.2	X	65.79976	88.32871	86.65461	28.58851	0.3613842	0.23190675	2.6237782	21	7 3.2	20.6
541820 2012 AF_{16}	16.8	X	111.81453	68.20003	340.38834	5.76851	0.1279091	0.22634967	2.6665484	21	2 12.3	20.3
541821 2012 AG_{17}	16.8	X	118.06944	328.12711	122.04299	14.24758	0.1474164	0.23336119	2.6128649	21	4 22.2	20.8
541822 2012 AF_{19}	17.3	X	169.03758	119.02502	297.27224	3.36644	0.2738818	0.24317634	2.5420759	21	4 29.3	21.8
541823 2012 AK_{20}	17.5	X	90.41826	5.35647	114.17434	11.12349	0.0787337	0.23566007	2.5958447	21	4 13.7	21.0
541824 2012 AK_{21}	16.3	X	157.13569	85.07936	347.80762	14.98496	0.1395566	0.24540659	2.5266509	21	4 27.2	20.4
541825 2012 AB_{22}	16.8	X	48.66960	43.86216	95.86863	14.34386	0.1963130	0.22843656	2.6502833	21	3 23.6	19.7
541826 2012 AC_{24}	17.0	X	106.20322	16.97884	101.09907	15.27095	0.1110856	0.23781171	2.5801635	21	5 8.6	20.7
541827 2012 AF_{24}	17.0	X	344.51558	130.01567	98.88390	6.47667	0.0422410	0.23554256	2.5967081	21	3 31.3	20.3
541828 2012 AV_{24}	16.9	X	88.76129	275.97951	217.51041	11.41925	0.2168478	0.22525876	2.6751507	21	5 17.9	20.4
541829 2012 AY_{24}	17.0	X	9.46503	352.29928	191.37421	12.68282	0.1333901	0.21274202	2.7790767	21	2 27.1	20.2
541830 2012 AA_{25}	16.9	X	24.24176	327.00593	197.28533	8.98764	0.0980624	0.21245246	2.7816013	21	2 27.7	20.2
541831 2012 AV_{25}	17.2	X	214.46509	58.52269	270.72018	6.53913	0.0992865	0.23029804	2.6359827	21	2 18.1	21.3
541832 2012 BG_{7}	17.3	X	201.72815	217.61895	64.12992	0.91530	0.0367333	0.20904892	2.8117115	21	—	—
541833 2012 BG_{9}	17.4	X	39.61210	288.93711	198.91827	3.84039	0.0541417	0.21650743	2.7467608	21	2 3.3	21.0
541834 2012 BE_{10}	16.9	X	69.17234	350.69549	155.36931	14.22602	0.1535271	0.22948913	2.6421733	21	4 29.7	20.3
541835 2012 BQ_{11}	16.6	X	44.86407	335.39844	131.10827	17.57376	0.0481983	0.21506439	2.7590339	21	1 15.6	20.3
541836 2012 BW_{12}	16.0	X	129.32325	128.12032	306.74661	31.54123	0.1989756	0.23425549	2.6062107	21	3 23.8	20.7
541837 2012 BE_{16}	17.9	X	111.75558	93.35416	339.96354	2.65896	0.1891884	0.23571799	2.5954195	21	3 21.9	21.4
541838 2012 BW_{18}	17.1	X	79.84709	269.09904	162.25050	4.71623	0.0556565	0.21299316	2.7768917	21	1 20.1	20.7
541839 2012 BP_{21}	17.1	X	125.46945	215.86498	210.23250	5.29865	0.3154936	0.23733572	2.5836121	21	4 11.3	21.2
541840 2012 BM_{22}	17.2	X	106.98268	157.80573	286.17386	12.55797	0.2124445	0.23268427	2.6179300	21	3 27.0	21.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
541841 2012 BB_{24}	16.5	X	102.17029	32.42848	11.84216	9.42155	0.2322946	0.21827402	2.7319203	21	2 14.2	20.2
541842 2012 BF_{24}	17.2	X	67.25988	46.06561	99.74581	9.29711	0.1308443	0.23056274	2.6339648	21	4 22.6	20.4
541843 2012 BZ_{27}	17.0	X	132.23453	65.16620	332.84894	5.43055	0.0421370	0.21682085	2.7441132	21	2 13.3	20.8
541844 2012 BM_{35}	16.9	X	79.06167	174.24389	267.45682	12.92991	0.2148042	0.23020228	2.6367137	21	2 13.6	20.1
541845 2012 BQ_{37}	16.7	X	159.80939	347.42386	73.27596	8.67627	0.2344528	0.24128557	2.5553388	21	4 29.6	21.0
541846 2012 BS_{41}	17.6	X	181.17003	291.48881	110.46689	6.19699	0.1099147	0.24121956	2.5558049	21	4 20.7	21.5
541847 2012 BB_{45}	17.7	X	2.99519	66.01619	106.22266	4.23391	0.0315899	0.22335691	2.6903149	21	2 10.8	21.1
541848 2012 BA_{49}	17.6	X	333.15795	275.99380	290.56612	4.24487	0.0886343	0.22270450	2.6955665	21	2 5.3	20.9
541849 2012 BG_{52}	17.2	X	101.94535	313.27259	146.15303	12.72801	0.1514183	0.22986882	2.6392630	21	4 13.1	20.9
541850 2012 BW_{55}	16.9	X	257.52404	178.36566	96.10519	5.07281	0.0631566	0.21385400	2.7694347	21	2 4.8	21.0
541851 2012 BD_{59}	16.8	X	239.46082	27.35356	315.46642	9.16291	0.1028676	0.24024286	2.5627273	21	3 29.8	20.7
541852 2012 BF_{61}	17.0	X	151.52889	117.80993	300.70245	28.42118	0.3655383	0.24130722	2.5551859	21	4 10.8	22.3
541853 2012 BL_{61}	18.1	X	247.59902	333.82585	121.58841	24.12162	0.0564807	0.37064320	1.9193994	21	10 16.9	20.7
541854 2012 BO_{65}	16.9	X	163.04894	203.60169	165.61648	4.49861	0.1108461	0.22654669	2.6650022	21	2 18.2	20.8
541855 2012 BE_{69}	17.4	X	134.64466	294.79370	114.18301	7.90114	0.0625244	0.22649296	2.6654236	21	3 5.7	21.1
541856 2012 BF_{69}	17.9	X	19.17971	179.85271	357.00953	1.79625	0.1234748	0.22522189	2.6754427	21	3 7.7	20.5
541857 2012 BV_{69}	17.3	X	147.12914	293.92416	121.73938	13.84434	0.2649697	0.23814463	2.5777583	21	4 18.9	21.9
541858 2012 BR_{70}	18.0	X	93.28497	322.24212	120.70940	4.17365	0.1781083	0.22649285	2.6654245	21	3 12.4	21.3
541859 2012 BH_{71}	16.8	X	171.26340	248.30709	128.02661	15.15150	0.0715187	0.22725304	2.6594770	21	3 8.7	20.8
541860 2012 BU_{77}	17.2	X	347.93418	51.82556	126.91187	12.37492	0.0446317	0.22108535	2.7087114	21	1 27.9	20.5
541861 2012 BU_{80}	17.7	X	194.05575	302.39025	113.95113	7.00285	0.0619684	0.24641610	2.5197454	21	5 21.7	21.3
541862 2012 BP_{85}	17.5	X	180.41305	79.56184	312.36929	9.33266	0.0688427	0.23527850	2.5986506	21	3 29.1	21.4
541863 2012 BB_{91}	17.1	X	175.89728	96.93074	314.43400	10.64263	0.2080110	0.24268204	2.5455265	21	4 22.8	21.6
541864 2012 BS_{93}	16.6	X	66.60373	205.15091	277.32234	13.76556	0.0576928	0.23769637	2.5809981	21	2 25.4	20.1
541865 2012 BV_{93}	17.8	X	99.49971	12.49582	105.20396	6.70379	0.2301622	0.23499470	2.6007424	21	5 13.1	21.5
541866 2012 BP_{99}	16.9	X	286.33536	296.71171	318.67188	11.94527	0.1573542	0.21831305	2.7315946	21	2 1.6	21.0
541867 2012 BZ_{104}	16.9	X	132.63335	138.55352	304.94990	11.21524	0.1715754	0.23558725	2.5963797	21	4 20.4	21.1
541868 2012 BA_{105}	17.1	X	49.51899	258.35312	236.81907	12.02041	0.3169499	0.22262711	2.6961912	21	3 22.6	19.4
541869 2012 BN_{106}	17.0	X	70.22170	112.48545	333.89613	13.58102	0.1673754	0.22035850	2.7146646	21	2 8.8	19.9
541870 2012 BB_{111}	17.0	X	222.93025	140.01850	147.22276	10.60772	0.1007408	0.21014371	2.8019375	21	1 12.3	21.4
541871 2012 BX_{115}	16.7	X	242.39700	166.58085	132.23116	10.78367	0.1321556	0.22267077	2.6958388	21	2 11.9	20.9
541872 2012 BT_{117}	17.5	X	67.58617	43.68737	131.07325	4.24577	0.0904682	0.23975865	2.5661765	21	5 23.5	20.6
541873 2012 BW_{122}	17.4	X	136.03840	81.90893	312.22703	15.37650	0.1574653	0.22564187	2.6721218	21	2 21.9	21.5
541874 2012 BL_{129}	17.7	X	145.99298	269.03587	135.72386	5.93276	0.2887730	0.23277611	2.6172413	21	4 2.9	22.2
541875 2012 BQ_{129}	18.0	X	7.25590	197.14184	126.03953	23.73025	0.0691542	0.37057024	1.9196513	21	10 15.3	20.4
541876 2012 BX_{129}	17.4	X	132.78884	36.83169	32.32573	4.90302	0.2095189	0.23425843	2.6061890	21	4 12.3	21.4
541877 2012 BY_{129}	16.7	X	340.97092	100.37406	110.52215	10.90913	0.1490963	0.22050889	2.7134302	21	2 17.7	20.0
541878 2012 BX_{130}	17.2	X	159.06047	300.99134	110.73616	13.45543	0.1699780	0.23589757	2.5941022	21	4 18.4	21.6
541879 2012 BP_{131}	17.0	X	100.97649	9.76845	65.12325	14.02950	0.2604578	0.22968486	2.6406721	21	3 30.4	20.8
541880 2012 BT_{132}	17.4	X	196.56926	211.28831	285.88368	17.80864	0.0770964	0.36978618	1.9223639	21	9 6.6	20.1
541881 2012 BH_{135}	16.8	X	249.65206	327.10450	161.17417	0.76003	0.1273828	0.18069655	3.0986282	21	10 15.8	21.1
541882 2012 BB_{136}	16.9	X	208.87175	276.86405	97.69481	15.05705	0.1155849	0.24257425	2.5462805	21	4 18.9	21.1
541883 2012 BY_{143}	17.2	X	114.89708	305.76666	95.21455	14.43589	0.1359398	0.22180681	2.7028346	21	2 10.9	21.0
541884 2012 BM_{151}	17.1	X	136.23675	283.01603	107.56304	13.90281	0.1730321	0.22890714	2.6466499	21	2 27.1	21.2
541885 2012 BU_{151}	17.7	X	127.74689	213.39474	226.26343	6.90472	0.3335873	0.23806515	2.5783320	21	5 1.6	22.0
541886 2012 BJ_{152}	17.1	X	92.67314	336.28190	133.22257	13.64252	0.1255876	0.22744980	2.6579431	21	4 11.6	20.8
541887 2012 BQ_{156}	16.9	X	115.64963	108.76407	349.64193	13.09550	0.1579623	0.23337237	2.6127815	21	4 19.3	20.8
541888 2012 BX_{156}	17.3	X	328.13168	231.67027	1.86281	2.55631	0.1504868	0.22070073	2.7118575	21	2 26.0	20.5
541889 2012 BY_{156}	16.7	X	5.63502	149.48645	79.38268	8.73968	0.1462520	0.22911200	2.6450720	21	4 28.3	19.4
541890 2012 BZ_{156}	17.2	X	80.26664	353.70651	143.43011	22.39223	0.0082732	0.23642760	2.5902237	21	4 14.3	21.0
541891 2012 BB_{157}	18.1	X	115.04599	217.17648	224.20901	2.22500	0.1693993	0.23023123	2.6364926	21	4 3.2	21.8
541892 2012 BN_{158}	17.4	X	107.66911	312.61198	151.15150	11.65258	0.0602891	0.23067793	2.6330879	21	4 11.8	21.0
541893 2012 BQ_{158}	17.0	X	116.12807	301.20955	141.68987	22.46754	0.0565505	0.22524449	2.6752637	21	3 28.2	21.0
541894 2012 BS_{158}	16.8	X	62.36296	21.86979	107.75727	14.28482	0.1749824	0.22303992	2.6928634	21	4 2.3	20.1
541895 2012 BC_{159}	17.6	X	148.89276	210.56619	199.47965	2.00162	0.1443845	0.23478050	2.6023240	21	3 28.4	21.3
541896 2012 BS_{159}	17.0	X	350.27549	278.44988	283.64705	9.57588	0.1072659	0.21806565	2.7336603	21	2 19.8	20.5
541897 2012 CK	16.9	X	178.65674	316.72301	102.20409	15.45523	0.1277086	0.23491960	2.6012966	21	5 13.4	21.2
541898 2012 CQ_{1}	16.8	X	198.50844	24.21388	317.31694	10.14145	0.0600873	0.22126137	2.7072746	21	2 18.8	20.7
541899 2012 CJ_{23}	16.8	X	172.97239	118.59745	290.99434	9.98975	0.1664073	0.23852334	2.5750290	21	4 17.1	21.1
541900 2012 CR_{28}	17.2	X	215.83917	47.43310	266.50599	3.17139	0.0358321	0.21592055	2.7517358	21	2 5.3	21.0
541901 2012 CK_{30}	17.5	X	118.32609	114.58169	313.52506	12.79833	0.0305367	0.22673555	2.6635221	21	2 26.6	21.1
541902 2012 CX_{31}	17.4	X	79.50868	145.57531	301.06145	12.81179	0.1613846	0.22121638	2.7076417	21	2 17.3	20.6
541903 2012 CE_{34}	16.8	X	285.01031	92.34773	138.68251	9.51777	0.1018595	0.21117179	2.7928361	21	1 8.4	20.9
541904 2012 CN_{36}	17.7	X	314.70750	237.87136	117.53174	24.20996	0.1098065	0.36538750	1.9377612	21	8 8.4	19.0
541905 2012 CP_{37}	17.2	X	141.26357	18.27231	43.23011	14.43696	0.2378759	0.23715318	2.5849377	21	4 15.8	21.4
541906 2012 CL_{44}	16.9	X	82.39082	324.98357	113.98316	4.52334	0.1759586	0.21691526	2.7433169	21	2 19.9	20.1
541907 2012 CR_{49}	16.9	X	173.32739	276.49763	80.73503	7.18232	0.0360098	0.21994124	2.7180969	21	2 12.5	20.8
541908 2012 CX_{58}	17.5	X	1.05508	15.68247	194.45820	5.74734	0.0534027	0.22412125	2.6841948	21	3 26.8	20.9
541909 2012 CR_{59}	17.0	X	113.51492	84.58654	322.11532	7.04729	0.0769737	0.21827342	2.7319252	21	2 5.6	20.4
541910 2012 DV	17.8	X	89.45471	129.87926	112.69891	23.81962	0.0442068	0.36706372	1.9318575	21	10 16.6	20.6
541911 2012 DW	17.8	X	132.06551	118.41322	12.57447	18.42397	0.1113006	0.35093949	1.9905873	21	6 15.2	20.7
541912 2012 DV_{3}	17.1	X	104.67933	102.70287	10.03495	28.53792	0.3655177	0.23372109	2.6101819	21	5 14.6	21.8
541913 2012 DN_{8}	16.8	X	52.45479	249.06216	320.62566	12.37118	0.0865633	0.23985926	2.5654589	21	6 17.5	20.0
541914 2012 DB_{11}	17.0	X	78.93303	34.97881	90.06319	10.00948	0.1662996	0.22796219	2.6539587	21	4 18.5	20.4
541915 2012 DC_{17}	16.4	X	293.72406	110.10719	148.40230	14.33598	0.1641863	0.21258674	2.7804298	21	2 12.5	20.5
541916 2012 DH_{20}	17.8	X	119.54064	117.14778	319.15630	5.18650	0.2611321	0.23157649	2.6262722	21	4 11.1	21.9
541917 2012 DG_{22}	15.2	X	145.18225	255.55264	36.77174	12.88708	0.1670398	0.17866905	3.1220259	21	—	—
541918 2012 DA_{24}	17.9	X	143.09489	217.06397	16.42370	2.56670	0.1279838	0.26715405	2.3875998	21	11 14.3	21.4
541919 2012 DK_{32}	16.3	X	307.41043	85.94772	160.88782	14.28891	0.0800312	0.21583166	2.7524912	21	2 25.6	19.8
541920 2012 DC_{33}	17.5	X	65.90416	45.85299	61.76176	8.94733	0.1848214	0.21830781	2.7316384	21	3 8.5	20.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
541921 2012 DF_{44}	16.9	X	330.22735	128.90571	91.37651	5.35707	0.0182034	0.21478992	2.7613839	21	3 5.3	20.7
541922 2012 DF_{46}	17.7	X	167.20795	1.77295	81.12669	3.24639	0.2670550	0.24045179	2.5612426	21	5 31.9	22.2
541923 2012 DJ_{58}	16.8	X	108.02659	350.70336	152.77566	22.36661	0.0251006	0.23678230	2.5876362	21	5 31.5	20.8
541924 2012 DK_{58}	16.8	X	118.36650	32.82706	26.30960	6.93172	0.0406554	0.21616193	2.7496869	21	2 25.2	20.6
541925 2012 DQ_{59}	16.6	X	138.35414	73.23532	3.08710	21.92760	0.0547060	0.22551665	2.6731109	21	4 5.9	20.5
541926 2012 DT_{63}	17.4	X	97.71983	269.74168	149.22849	13.96058	0.2112536	0.22094059	2.7098945	21	2 19.8	20.8
541927 2012 DT_{65}	17.8	X	60.26011	134.54945	357.97495	2.78043	0.0910116	0.22171217	2.7036036	21	3 15.4	21.1
541928 2012 DF_{73}	17.0	X	101.86436	290.42847	154.79456	13.35010	0.2407329	0.22419038	2.6836429	21	4 7.3	20.8
541929 2012 DO_{79}	17.4	X	155.51433	215.47642	306.50682	16.80608	0.0818723	0.35930808	1.9595577	21	8 25.9	19.9
541930 2012 DV_{84}	16.3	X	5.63781	87.28045	121.44593	25.04641	0.1281742	0.22121334	2.7076665	21	4 9.3	20.0
541931 2012 DL_{86}	17.1	X	64.03319	344.47981	168.60210	14.22285	0.1964001	0.22744518	2.6579791	21	5 7.2	20.4
541932 2012 DM_{86}	17.2	X	181.57903	125.91690	270.03630	5.22504	0.0483932	0.22260467	2.6963723	21	4 7.4	21.1
541933 2012 DE_{101}	17.3	X	327.90324	152.59025	69.16535	5.60525	0.1026998	0.21199662	2.7855872	21	2 21.3	20.9
541934 2012 DW_{101}	17.2	X	77.72630	133.99901	330.75296	11.54329	0.0460796	0.21985231	2.7188299	21	2 26.3	20.6
541935 2012 DA_{102}	16.9	X	19.96964	144.84581	35.62929	9.53775	0.1947991	0.22000072	2.7176070	21	3 18.3	19.5
541936 2012 DK_{102}	16.7	X	26.99589	346.26046	173.08817	14.19431	0.1340668	0.21477667	2.7614974	21	2 26.1	19.6
541937 2012 DW_{102}	17.2	X	358.93667	56.74086	154.31726	11.15000	0.1296369	0.21668832	2.7452320	21	3 22.9	20.3
541938 2012 DZ_{102}	17.3	X	95.05487	103.92208	355.50351	27.01413	0.2167419	0.22335043	2.6903670	21	4 1.5	21.1
541939 2012 DC_{103}	17.0	X	86.08067	188.94972	252.09491	3.61703	0.0337659	0.21340005	2.7733608	21	2 6.4	20.6
541940 2012 DG_{103}	16.9	X	215.18708	112.78884	169.75703	16.47776	0.1855684	0.19223307	2.9733816	21	1 2.4	22.2
541941 2012 DR_{103}	17.4	X	84.66923	56.07646	26.46885	5.98462	0.2231310	0.21788828	2.7351437	21	3 8.6	20.6
541942 2012 DP_{105}	16.8	X	156.98291	303.85757	9.89210	9.67592	0.1329681	0.18528826	3.0472222	21	—	—
541943 2012 DH_{106}	17.5	X	293.27058	63.66076	195.13239	3.09557	0.1343769	0.21053006	2.7985086	21	2 15.9	21.4
541944 2012 EO_{2}	16.1	X	143.06659	88.06459	340.18719	21.72674	0.0422988	0.22767013	2.6562280	21	3 26.3	20.1
541945 2012 ER_{2}	17.0	X	22.61749	38.07249	159.74841	12.28346	0.1324524	0.22646290	2.6656595	21	4 16.7	20.0
541946 2012 EJ_{7}	17.3	X	90.92301	30.40752	77.91256	15.06207	0.2280248	0.22521244	2.6755175	21	4 24.8	21.0
541947 2012 EW_{10}	17.4	X	25.48913	153.27841	25.84260	4.90008	0.1203017	0.21961092	2.7208218	21	3 24.6	20.4
541948 2012 EN_{13}	17.0	X	102.06989	179.63598	260.56904	3.65635	0.0860890	0.21877925	2.7277128	21	3 4.3	20.7
541949 2012 ET_{15}	16.5	X	241.81841	278.46634	48.07112	10.29754	0.1011360	0.23135757	2.6279286	21	3 22.3	20.5
541950 2012 EM_{16}	17.6	X	64.61096	30.48113	95.02734	8.55339	0.2380966	0.22116740	2.7080415	21	4 7.8	20.6
541951 2012 EF_{19}	16.9	X	258.97065	301.72423	326.76401	11.23867	0.0776724	0.20466708	2.8517015	21	1 30.8	21.1
541952 2012 EH_{19}	16.7	X	26.75720	59.41556	151.63628	10.00666	0.0659037	0.21750918	2.7383208	21	5 11.3	20.2
541953 2012 EM_{19}	17.2	X	46.12449	152.76906	2.30208	9.90309	0.1414640	0.21798114	2.7343667	21	3 27.8	20.0
541954 2012 EY_{19}	17.1	X	156.86949	23.50060	31.67320	7.31971	0.0165816	0.21526422	2.7573262	21	4 4.6	20.9
541955 2012 EA_{20}	16.7	X	286.75031	193.13579	64.46070	14.60611	0.1561435	0.21082348	2.7959114	21	2 10.7	21.1
541956 2012 EE_{20}	16.8	X	176.89915	220.20762	106.13738	3.23427	0.0791205	0.20040063	2.8920335	21	1 14.3	21.2
541957 2012 EF_{20}	17.3	X	96.37380	74.56821	12.87823	11.94528	0.2644617	0.22303719	2.6928853	21	4 3.4	20.9
541958 2012 FL	17.2	X	99.71185	278.03029	208.07364	27.51924	0.3696874	0.23394084	2.6085471	21	6 7.1	21.8
541959 2012 FG_{1}	16.3	X	23.17879	143.25032	80.24276	16.40493	0.1128305	0.22558147	2.6725988	21	5 23.7	19.3
541960 2012 FJ_{1}	17.1	X	210.41885	155.79824	171.01186	4.24660	0.0712563	0.21501558	2.7594515	21	2 15.4	21.1
541961 2012 FT_{4}	17.3	X	3.03133	239.01016	335.96663	4.92204	0.0909638	0.22434391	2.6824185	21	4 1.7	20.5
541962 2012 FY_{8}	18.1	X	118.23300	107.61125	340.15486	5.38553	0.2121331	0.23022170	2.6365654	21	4 18.9	22.0
541963 2012 FY_{22}	17.3	X	47.33073	115.90095	20.07591	9.44318	0.1849935	0.21708523	2.7418848	21	3 11.5	20.0
541964 2012 FA_{27}	16.4	X	121.49556	57.65205	10.22430	13.01371	0.1529239	0.21849513	2.7300769	21	3 25.2	20.3
541965 2012 FY_{27}	17.0	X	132.83863	159.13033	333.08989	14.13517	0.0438317	0.23943927	2.5684580	21	6 15.4	20.8
541966 2012 FN_{30}	17.2	X	177.73391	54.32508	8.63138	13.45146	0.0889377	0.23303691	2.6152883	21	5 6.6	21.2
541967 2012 FE_{38}	16.8	X	275.44365	140.90420	133.95152	11.09972	0.1017581	0.21030284	2.8005240	21	2 21.8	20.9
541968 2012 FK_{47}	17.4	X	209.15525	237.67397	154.73979	8.12643	0.0825851	0.23284146	2.6167516	21	5 8.6	21.3
541969 2012 FR_{48}	17.4	X	134.82785	245.53927	158.17530	4.93047	0.0754066	0.21471618	2.7620160	21	2 27.9	21.2
541970 2012 FP_{50}	17.0	X	170.37025	261.79287	106.49054	5.51135	0.0853001	0.21199176	2.7856298	21	2 27.2	21.1
541971 2012 FZ_{56}	18.2	X	260.23028	25.94842	39.30156	21.32253	0.0932094	0.36090047	1.9537894	21	9 12.9	20.7
541972 2012 FM_{57}	17.0	X	95.65459	96.25327	97.31768	11.82235	0.0964757	0.24108147	2.5567808	21	7 29.9	20.5
541973 2012 FE_{59}	16.2	X	301.27030	86.56044	155.13457	15.32687	0.1145834	0.20634885	2.8361858	21	2 7.5	20.2
541974 2012 FX_{67}	17.4	X	83.40495	79.85035	49.73320	12.74921	0.3112306	0.22971948	2.6404067	21	5 18.4	20.8
541975 2012 FN_{68}	17.0	X	228.66425	157.00326	142.78843	9.99971	0.1153571	0.20416691	2.8563569	21	2 2.4	21.5
541976 2012 FS_{74}	16.5	X	48.02566	351.12703	170.54434	16.75660	0.0925388	0.22408523	2.6844824	21	4 7.2	19.7
541977 2012 FE_{78}	16.7	X	68.89509	190.08234	8.24879	15.09563	0.0488616	0.23574701	2.5952065	21	6 19.7	20.4
541978 2012 FY_{80}	16.3	X	125.78015	17.65593	79.17753	22.54683	0.0865003	0.22792048	2.6542826	21	5 5.0	20.4
541979 2012 FY_{81}	16.4	X	302.03944	74.49913	136.19912	12.07356	0.0654967	0.20204625	2.8763089	21	1 9.8	20.5
541980 2012 FB_{83}	17.0	X	124.19576	282.79679	158.95038	17.41453	0.2304477	0.22655630	2.6649269	21	4 26.6	21.4
541981 2012 FJ_{86}	16.9	X	282.56954	182.84358	73.83323	11.46848	0.0954690	0.20316955	2.8656972	21	2 12.2	21.2
541982 2012 FF_{87}	17.4	X	141.54788	72.40420	18.05856	29.74305	0.2889391	0.23610832	2.5925583	21	5 10.9	22.3
541983 2012 GN_{5}	17.3	X	281.35978	265.57548	22.57743	6.30344	0.0397879	0.21601170	2.7509616	21	3 24.7	21.1
541984 2012 GU_{6}	17.5	X	118.94351	104.27391	24.38816	11.92531	0.1424089	0.23293432	2.6160561	21	6 3.1	21.5
541985 2012 GU_{7}	16.8	X	73.03329	235.60278	252.38910	7.82488	0.1263257	0.21874096	2.7280310	21	3 30.6	20.2
541986 2012 GO_{8}	17.0	X	246.89432	266.89900	5.18452	8.35517	0.0539103	0.20073287	2.8888416	21	1 25.6	21.4
541987 2012 GG_{15}	16.0	X	167.84820	93.61688	202.37501	24.63362	0.2642172	0.17528718	3.1620540	21	—	—
541988 2012 GL_{16}	17.4	X	83.79243	163.75812	344.48918	7.20980	0.0438837	0.22183145	2.7026344	21	4 30.5	21.1
541989 2012 GP_{18}	16.9	X	267.57848	341.98153	167.55809	10.42648	0.1661729	0.17586278	3.1551505	21	11 28.0	21.3
541990 2012 GW_{20}	17.0	X	58.24626	112.32948	80.53899	13.64085	0.2059972	0.22592595	2.6698814	21	6 21.3	20.0
541991 2012 GN_{25}	16.8	X	297.81495	276.20814	35.34326	12.30888	0.0609306	0.22501777	2.6770604	21	5 9.2	20.3
541992 2012 GE_{26}	16.5	X	352.40557	157.28386	41.12956	29.94640	0.1378642	0.21087428	2.7954623	21	3 13.9	20.5
541993 2012 GS_{27}	16.0	X	272.71283	18.81061	168.54734	12.66537	0.0614975	0.18229364	3.0805035	21	—	—
541994 2012 HJ_{4}	16.5	X	233.94155	218.59701	62.86052	10.76007	0.1518752	0.19500973	2.9450897	21	1 18.9	21.4
541995 2012 HE_{8}	19.0	X	173.17887	330.29515	165.02032	2.04430	0.3374506	0.35643241	1.9700833	21	8 11.2	22.5
541996 2012 HU_{8}	15.5	X	213.80903	137.28567	99.90868	16.13251	0.0828176	0.17268692	3.1937169	21	—	—
541997 2012 HP_{10}	17.1	X	111.32301	18.59783	127.08845	12.45691	0.1232625	0.23410384	2.6073362	21	6 17.9	20.9
541998 2012 HD_{11}	17.0	X	29.67983	158.71729	40.47571	15.11485	0.0806397	0.22211786	2.7003106	21	4 26.9	20.0
541999 2012 HC_{12}	16.5	X	218.08145	142.00813	134.54993	15.24557	0.1710514	0.18710277	3.0274890	21	—	—
542000 2012 HR_{12}	16.9	X	256.27866	124.49170	114.93813	8.78292	0.0400275	0.18699636	3.0286374	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
542001 2012 HC_{22}	15.7	X	154.34217	249.47387	69.79853	17.19324	0.2341858	0.17718057	3.1394868	21	—	—
542002 2012 HE_{30}	16.1	X	145.63998	277.96411	66.63379	10.98942	0.2325297	0.17993748	3.1073365	21	1 23.4	21.2
542003 2012 HO_{33}	17.4	X	26.47213	246.13948	15.39991	3.80198	0.1548824	0.23205214	2.6226821	21	7 28.8	20.1
542004 2012 HD_{35}	16.3	X	274.28794	224.81912	79.45868	14.65702	0.1350513	0.21255216	2.7807314	21	3 31.7	20.7
542005 2012 HA_{45}	16.1	X	190.12553	250.46467	46.92992	16.25284	0.2460232	0.17874386	3.1211547	21	1 4.1	21.8
542006 2012 HZ_{46}	16.0	X	187.91716	240.78119	45.63253	13.98704	0.2691830	0.17411816	3.1761914	21	—	—
542007 2012 HD_{47}	15.9	X	231.14317	171.79830	81.19096	13.86891	0.1471460	0.18207758	3.0829400	21	—	—
542008 2012 HF_{47}	15.8	X	197.15479	168.38508	97.85196	13.07798	0.0407029	0.17539350	3.1607760	21	—	—
542009 2012 HV_{47}	16.5	X	247.74394	180.73269	74.85963	10.59166	0.1612780	0.18791477	3.0187613	21	—	—
542010 2012 HF_{51}	16.2	X	196.85436	169.42654	146.27206	12.62013	0.1635344	0.18613031	3.0380248	21	1 25.6	21.3
542011 2012 HY_{53}	16.6	X	224.43095	159.77741	143.80098	6.41382	0.0330649	0.20028723	2.8931251	21	2 5.9	20.6
542012 2012 HD_{54}	16.7	X	356.83359	166.19656	98.40298	15.46429	0.0873202	0.22509058	2.6764831	21	6 5.1	19.8
542013 2012 HN_{70}	18.3	X	254.17016	149.27555	143.86109	3.20482	0.1859230	0.30522195	2.1847020	21	2 1.1	21.7
542014 2012 HC_{77}	16.4	X	169.69483	105.00131	209.18064	12.52556	0.2798557	0.17385841	3.1793541	21	1 7.9	22.1
542015 2012 HK_{82}	15.1	X	170.39475	208.22491	104.13526	21.01171	0.1921146	0.17344705	3.1843791	21	1 3.8	20.4
542016 2012 HN_{85}	16.5	X	272.58213	137.67470	92.39508	4.23109	0.0573849	0.18908017	3.0063444	21	1 3.2	20.9
542017 2012 HQ_{85}	16.5	X	189.91116	184.55900	142.69737	12.95189	0.0625189	0.19137551	2.9822575	21	1 28.9	20.9
542018 2012 HV_{85}	16.1	X	157.58683	247.36102	85.20366	13.19889	0.2273462	0.17962293	3.1109631	21	1 18.3	21.3
542019 2012 HA_{86}	16.7	X	156.04376	263.49428	71.16716	10.18863	0.1175091	0.18325211	3.0697527	21	1 9.4	21.4
542020 2012 HL_{86}	16.7	X	147.34591	111.84636	208.84272	13.42637	0.2113485	0.17346438	3.1841670	21	—	—
542021 2012 JA_{3}	16.4	X	194.21014	290.08110	55.10914	2.84536	0.0799867	0.19815948	2.9137983	21	2 25.1	20.7
542022 2012 JH_{3}	16.9	X	87.26945	246.82284	296.90670	8.86704	0.1719609	0.23206140	2.6226124	21	7 15.5	20.3
542023 2012 JG_{6}	16.5	X	258.40143	10.64209	247.17475	7.66934	0.1192127	0.19087085	2.9875119	21	1 13.6	21.2
542024 2012 JR_{15}	17.1	X	93.58076	63.68369	102.39651	4.37739	0.0593115	0.22596812	2.6695492	21	6 12.6	20.7
542025 2012 JD_{18}	17.0	X	229.88396	237.61234	40.15922	4.17007	0.1548231	0.18890546	3.0081978	21	1 11.2	21.9
542026 2012 JL_{19}	16.1	X	332.74861	87.46704	75.73704	11.07070	0.0414240	0.18885469	3.0087368	21	—	—
542027 2012 JF_{21}	16.2	X	241.28986	357.12713	257.75191	14.25046	0.1824375	0.18430881	3.0580082	21	—	—
542028 2012 JY_{35}	17.9	X	173.32762	311.81061	281.17455	5.57327	0.1025325	0.26769811	2.3843638	21	12 15.8	21.2
542029 2012 JG_{36}	16.1	X	335.43884	4.32683	252.27443	12.78929	0.1522145	0.21316236	2.7754221	21	4 4.9	19.7
542030 2012 JH_{36}	16.2	X	189.84596	44.14506	250.85549	9.36050	0.1964851	0.17668190	3.1453913	21	—	—
542031 2012 JO_{37}	18.4	X	276.62260	257.42383	45.47969	2.16216	0.1967588	0.31513072	2.1386623	21	3 6.1	21.5
542032 2012 JZ_{40}	15.7	X	196.29969	23.34616	243.85315	14.51872	0.1139740	0.17317464	3.1877178	21	—	—
542033 2012 JS_{41}	16.5	X	195.16129	273.25055	58.04132	8.90491	0.1050138	0.19163002	2.9796164	21	2 13.4	21.3
542034 2012 JD_{47}	16.5	X	202.48036	292.13025	133.14316	22.50893	0.0502609	0.22493751	2.6776972	21	6 15.9	20.7
542035 2012 JC_{48}	16.1	X	155.05571	279.02222	49.99925	13.45302	0.2956653	0.17450967	3.1714391	21	1 19.2	21.7
542036 2012 JG_{52}	16.6	X	178.12835	85.65631	245.02935	11.70020	0.0148660	0.18952079	3.0016829	21	1 15.3	21.1
542037 2012 JW_{53}	16.7	X	159.32824	167.39119	171.89776	7.60475	0.1068770	0.18506442	3.0496788	21	1 15.2	21.5
542038 2012 JC_{60}	16.3	X	196.44010	187.26516	136.42926	6.63398	0.1308737	0.18763015	3.0218133	21	2 3.2	21.2
542039 2012 JE_{60}	15.7	X	145.16810	270.30457	80.43865	16.42176	0.1477284	0.17996834	3.1069814	21	1 21.7	20.6
542040 2012 JM_{60}	16.1	X	110.49987	220.40273	140.58854	15.91424	0.1984404	0.16933561	3.2357169	21	1 4.0	20.9
542041 2012 JV_{67}	16.1	X	138.55613	277.52528	66.32323	16.73976	0.2261305	0.17120690	3.2120962	21	1 16.6	21.4
542042 2012 KN_{3}	16.5	X	97.41121	279.38465	106.58571	9.10760	0.1384368	0.18297186	3.0728865	21	1 6.2	20.3
542043 2012 KR_{3}	17.1	X	76.83635	332.94955	118.54790	7.36162	0.0314365	0.19906656	2.9049401	21	2 12.4	21.0
542044 2012 KH_{4}	18.6	X	212.84006	227.24607	121.15653	7.53880	0.2836401	0.30815020	2.1708397	21	3 9.0	22.4
542045 2012 KA_{12}	16.2	X	9.89101	10.17230	157.62766	18.84468	0.1868005	0.20125910	2.8838038	21	2 6.3	19.3
542046 2012 KH_{12}	15.2	X	116.42204	239.20709	117.20067	27.88748	0.2213824	0.17030836	3.2233842	21	1 8.4	19.9
542047 2012 KJ_{14}	15.7	X	155.59184	274.48791	34.20505	26.37333	0.1911445	0.18015651	3.1048175	21	—	—
542048 2012 KC_{15}	16.7	X	173.97345	243.96943	76.85605	11.67542	0.1358031	0.17922555	3.1155599	21	1 12.8	21.7
542049 2012 KN_{16}	16.5	X	181.34619	103.79359	228.82760	10.65601	0.0768742	0.18589940	3.0405401	21	1 25.2	21.4
542050 2012 KP_{18}	15.9	X	240.43123	135.63746	128.25377	17.72635	0.2393776	0.18410922	3.0602179	21	1 1.7	21.3
542051 2012 KV_{18}	16.0	X	120.92637	185.82312	190.76491	25.41730	0.1459956	0.17817979	3.1277384	21	1 21.4	21.0
542052 2012 KA_{22}	16.8	X	273.85303	211.01908	99.59708	7.54763	0.0602908	0.21278869	2.7786703	21	4 13.4	20.8
542053 2012 KK_{24}	16.3	X	148.83069	252.71162	69.70044	10.79070	0.2217841	0.17503449	3.1650965	21	—	—
542054 2012 KF_{27}	16.7	X	229.79020	99.63062	213.33297	11.50461	0.0151037	0.19848541	2.9106076	21	2 20.9	21.0
542055 2012 KY_{28}	16.9	X	95.21115	250.61716	190.74695	10.01882	0.0384701	0.20100297	2.8862530	21	2 20.5	21.0
542056 2012 KK_{29}	16.9	X	337.96019	25.50366	167.95983	4.03077	0.0180388	0.19992533	2.8966154	21	2 8.8	20.8
542057 2012 KB_{32}	17.9	X	248.45570	217.44154	119.07851	3.46998	0.1379201	0.31769038	2.1271592	21	3 27.0	20.7
542058 2012 KS_{32}	16.2	X	56.10787	13.70256	68.59675	11.28637	0.0799237	0.19090323	2.9871741	21	1 9.3	20.0
542059 2012 KT_{40}	17.4	X	16.69399	117.94061	99.59761	12.91344	0.1034024	0.21489942	2.7604458	21	5 7.1	20.8
542060 2012 KB_{42}	16.4	X	86.80186	157.62244	218.98723	17.53380	0.0787059	0.17772332	3.1330917	21	—	—
542061 2012 KD_{44}	16.1	X	132.88407	255.59950	79.58852	15.50520	0.1662770	0.16954116	3.2331011	21	—	—
542062 2012 KS_{46}	15.4	X	211.67055	87.05957	208.33170	17.71647	0.1417028	0.18088397	3.0964875	21	1 12.8	20.8
542063 2012 KG_{47}	15.7	X	230.24876	145.03153	106.84989	11.62406	0.0507657	0.17798848	3.1299792	21	—	—
542064 2012 KR_{47}	17.8	X	40.75471	146.99796	130.47319	24.69423	0.0250516	0.34657210	2.0072755	21	9 10.2	20.1
542065 2012 KU_{48}	16.3	X	218.83539	25.86841	253.12025	7.17691	0.1747379	0.18060471	3.0996786	21	1 3.1	21.5
542066 2012 KA_{50}	16.1	X	253.15180	146.23125	122.45724	10.79678	0.0810293	0.18888449	3.0084203	21	1 25.9	20.7
542067 2012 KC_{52}	16.0	X	203.51393	53.03863	226.40674	27.73096	0.2418249	0.17474639	3.1685743	21	—	—
542068 2012 KX_{52}	18.2	X	233.86981	185.93361	152.14174	6.09039	0.1484269	0.31009807	2.1617394	21	3 13.6	21.3
542069 2012 LK_{7}	18.1	X	241.07091	186.95753	118.07648	8.49258	0.2555420	0.29954624	2.2122123	21	2 4.3	21.9
542070 2012 LR_{7}	15.7	X	208.75466	164.63988	119.11612	18.70883	0.1875302	0.17642304	3.1484673	21	1 2.1	21.1
542071 2012 LG_{10}	16.1	X	110.17064	148.18599	239.91922	13.49006	0.1340130	0.17888747	3.1194840	21	1 20.9	20.7
542072 2012 LH_{10}	16.5	X	257.06487	73.96132	196.86543	26.85606	0.1473048	0.18750833	3.0231220	21	1 22.4	21.8
542073 2012 LM_{11}	16.0	X	144.33201	275.00459	103.99802	10.14597	0.1262046	0.18890564	3.0081958	21	2 20.7	20.6
542074 2012 LR_{18}	16.7	X	240.66884	156.29240	92.26270	6.70851	0.0919364	0.18119688	3.0929216	21	—	—
542075 2012 LS_{19}	16.2	X	199.35505	195.69489	80.82814	11.12510	0.0892295	0.17478009	3.1681670	21	—	—
542076 2012 LV_{20}	18.5	X	251.44376	21.85207	302.55893	1.59869	0.1693560	0.30937549	2.1651041	21	3 10.4	21.6
542077 2012 LB_{21}	16.3	X	269.92920	89.78513	140.03328	16.66182	0.1864680	0.17942680	3.1132297	21	—	—
542078 2012 LO_{21}	16.3	X	232.38893	39.42919	209.25160	17.23565	0.1207457	0.17547636	3.1597809	21	—	—
542079 2012 LQ_{21}	16.5	X	249.12025	138.02135	153.36272	12.77569	0.0835889	0.19095687	2.9866147	21	2 16.5	20.9
542080 2012 LF_{23}	16.3	X	276.62326	144.30953	94.32639	13.52227	0.0869933	0.18921592	3.0049063	21	1 14.9	20.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
542081 2012 LW_{23}	16.3	X	138.66287	257.90267	150.53027	9.37229	0.0460039	0.19494966	2.9456947	21	3 10.7	20.4
542082 2012 MV_{15}	16.2	X	21.70124	319.54267	279.50825	10.35664	0.0318882	0.22296622	2.6934567	21	6 5.9	19.6
542083 2012 MF_{16}	15.4	X	191.62211	178.12805	112.28995	19.10734	0.1795747	0.17829734	3.1263635	21	—	—
542084 2012 NH	15.7	X	196.97869	51.45543	306.90392	26.15591	0.2915633	0.17567824	3.1573598	21	3 4.9	21.8
542085 2012 NW	18.0	X	237.88184	197.88896	105.76870	5.33639	0.2286276	0.29820362	2.2188474	21	1 31.9	21.7
542086 2012 OF_{2}	16.1	X	245.05228	142.04393	145.99048	17.76715	0.1911628	0.18146410	3.0898844	21	2 2.8	21.3
542087 2012 PQ_{19}	15.7	X	121.65827	241.04822	174.22334	10.92339	0.3250671	0.16649159	3.2724613	21	4 3.0	21.1
542088 2012 QH_{52}	17.3	X	267.56570	341.18509	315.23902	7.26091	0.2246156	0.29942906	2.2127894	21	2 15.0	20.6
542089 2012 RY_{6}	18.4	X	199.39660	185.85831	170.80305	0.18651	0.2510624	0.28597510	2.2816581	21	3 8.3	22.1
542090 2012 RF_{11}	16.3	X	232.72933	85.24169	247.64889	11.03184	0.0175041	0.18205278	3.0832200	21	3 22.4	20.9
542091 2012 RM_{11}	17.7	X	194.75362	53.95560	325.21755	5.09228	0.2425264	0.28820001	2.2699000	21	3 29.9	21.5
542092 2012 RB_{14}	15.9	X	171.80164	105.98113	293.85761	9.55830	0.1333701	0.17128086	3.2111714	21	4 7.6	21.2
542093 2012 RD_{20}	15.9	X	245.32759	39.38922	318.43067	8.65509	0.0895157	0.19181865	2.9776627	21	4 30.4	20.5
542094 2012 RN_{26}	17.9	X	262.45717	281.34410	7.73677	4.31621	0.2378958	0.29370286	2.2414580	21	2 3.7	21.6
542095 2012 RG_{30}	16.0	X	157.51813	163.39007	255.34580	8.45594	0.1199421	0.18049911	3.1008874	21	4 17.4	20.9
542096 2012 RC_{39}	16.1	X	217.16060	349.14274	349.29959	8.52139	0.0704216	0.17428821	3.1741251	21	3 14.0	20.9
542097 2012 RU_{41}	16.0	X	143.26065	122.37910	338.52913	10.80781	0.0468934	0.18528015	3.0473110	21	5 16.9	20.6
542098 2012 SV_{19}	18.2	X	177.02097	101.20776	308.35101	5.97311	0.1397226	0.29271414	2.2465025	21	4 17.4	21.5
542099 2012 SC_{40}	18.1	X	325.52724	308.43842	326.75582	2.74215	0.1637976	0.30476141	2.1869024	21	4 3.3	20.3
542100 2012 SD_{45}	15.3	X	260.56872	288.20714	349.93234	18.96176	0.1183601	0.16824099	3.2497367	21	2 17.9	20.3
542101 2012 SC_{47}	16.3	X	126.50007	330.81289	131.57133	8.81100	0.1677425	0.17821055	3.1273784	21	5 18.9	21.3
542102 2012 TB	17.7	X	312.83045	302.66531	4.93102	5.14658	0.1103844	0.30734048	2.1746509	21	5 11.2	19.9
542103 2012 TV_{10}	15.5	X	196.63538	292.53704	30.06071	8.54135	0.0533099	0.15410551	3.4455398	21	2 9.1	20.7
542104 2012 TK_{53}	18.1	X	166.81149	83.43066	301.00858	8.33854	0.2171281	0.28209130	2.3025527	21	3 10.9	21.8
542105 2012 TK_{54}	18.1	X	188.72105	95.60960	256.89570	5.67328	0.2356094	0.27692437	2.3311055	21	2 20.7	22.1
542106 2012 TK_{57}	18.6	X	231.11166	168.50425	209.85496	6.53081	0.2506338	0.29652952	2.2271908	21	4 28.5	22.1
542107 2012 TL_{68}	17.9	X	44.72659	192.71204	32.73143	7.00783	0.0997861	0.30084141	2.2058585	21	6 28.8	20.1
542108 2012 TM_{300}	16.5	X	128.39852	299.34229	128.67352	10.71940	0.0879439	0.17464487	3.1698022	21	4 2.4	21.3
542109 2012 UM_{74}	17.8	X	259.37674	309.22504	344.28622	6.49148	0.1845724	0.28167826	2.3048031	21	2 10.9	21.4
542110 2012 UV_{92}	17.5	X	307.54490	319.40517	318.90486	6.54300	0.0909098	0.28936708	2.2637926	21	3 24.1	20.3
542111 2012 UQ_{150}	18.1	X	180.14117	309.75088	26.29694	2.90511	0.1862955	0.26836665	2.3804023	21	1 26.4	21.7
542112 2012 UJ_{162}	18.1	X	181.45536	322.50835	37.91176	7.36938	0.2602058	0.27559398	2.3386016	21	3 3.9	22.1
542113 2012 US_{173}	18.0	X	141.22022	256.97490	162.03083	6.84003	0.0932537	0.27799278	2.3251289	21	3 21.9	21.0
542114 2012 UR_{174}	17.3	X	335.79411	352.70269	241.94162	6.83440	0.0207300	0.28631873	2.2798322	21	3 14.3	20.2
542115 2012 UJ_{184}	18.2	X	173.93287	67.31243	32.80323	6.57426	0.1009140	0.29761986	2.2217479	21	6 23.9	21.4
542116 2012 VN_{4}	16.6	X	226.12379	69.41721	13.00009	25.58227	0.2570277	0.18088591	3.0964653	21	7 23.8	22.3
542117 2012 VB_{43}	18.0	X	222.54268	306.77518	65.80678	6.22652	0.2008302	0.28784899	2.2717449	21	4 18.1	21.6
542118 2012 VD_{56}	17.7	X	138.10556	195.93264	221.65601	6.00870	0.0641603	0.27416308	2.3467315	21	3 9.1	20.7
542119 2012 VQ_{75}	18.2	X	191.20561	278.65969	81.83973	8.12580	0.2248212	0.27481662	2.3430095	21	3 11.1	22.2
542120 2012 VC_{76}	16.7	X	261.40671	202.73308	79.39108	14.03703	0.2271029	0.27002586	2.3706411	21	1 30.1	20.8
542121 2012 VC_{88}	18.1	X	134.06248	0.95362	52.83894	3.86409	0.1841673	0.26825389	2.3810693	21	3 20.1	21.4
542122 2012 VF_{93}	18.3	X	203.07602	274.26804	84.99270	5.56059	0.2496565	0.27974440	2.3154129	21	3 17.7	22.3
542123 2012 VE_{94}	18.1	X	113.22972	354.64913	129.20249	6.70109	0.0731648	0.28099372	2.3085448	21	5 13.0	21.0
542124 2012 VQ_{103}	18.1	X	214.97469	263.40820	64.58035	5.30339	0.1793219	0.27868683	2.3212669	21	2 15.9	21.8
542125 2012 VZ_{105}	19.2	X	175.99417	5.87758	47.13073	2.89987	0.2101654	0.28412709	2.2915410	21	4 27.8	22.7
542126 2012 VA_{108}	17.7	X	165.99371	341.84000	77.01204	7.76086	0.2521949	0.27623109	2.3350043	21	5 1.2	21.6
542127 2012 WP_{8}	18.0	X	209.48466	61.78229	281.98994	7.04482	0.1406434	0.27377719	2.3489361	21	2 25.3	21.6
542128 2012 WG_{9}	18.4	X	171.97053	95.96143	299.46736	1.56205	0.2219178	0.27705333	2.3303821	21	4 2.0	22.2
542129 2012 WD_{22}	18.0	X	64.22141	80.11080	52.99791	7.97026	0.0603043	0.26928338	2.3749967	21	3 15.3	20.8
542130 2012 WU_{28}	17.4	X	108.35339	24.49806	76.13108	7.02234	0.0500587	0.27057993	2.3674037	21	4 1.9	20.4
542131 2012 WD_{30}	18.1	X	254.95738	237.44422	75.41755	3.82730	0.1979461	0.28416300	2.2913479	21	3 2.7	21.7
542132 2012 XF_{6}	18.1	X	145.87430	209.05649	197.27511	5.98767	0.2067264	0.27147271	2.3622105	21	3 22.4	21.6
542133 2012 XN_{7}	17.7	X	256.36989	297.84937	63.05942	7.16333	0.1548668	0.29505670	2.2345962	21	5 7.7	20.6
542134 2012 XK_{10}	17.9	X	154.83273	345.41058	61.69950	10.61453	0.1622867	0.27384125	2.3485698	21	4 2.9	21.5
542135 2012 XD_{15}	17.6	X	15.39466	309.28250	297.71595	5.88231	0.0816402	0.29066646	2.2570409	21	6 5.5	19.7
542136 2012 XR_{19}	18.3	X	163.85294	321.72865	62.46565	2.24905	0.1935602	0.27252369	2.3561334	21	3 12.3	21.9
542137 2012 XK_{21}	17.7	X	140.91347	55.91215	67.79764	7.95252	0.0556075	0.29114652	2.2545592	21	6 13.5	20.6
542138 2012 XZ_{24}	17.5	X	278.77549	35.13631	240.27381	11.44586	0.2043620	0.27580928	2.3373843	21	1 31.2	21.4
542139 2012 XW_{26}	18.3	X	116.03162	7.41635	65.11541	6.25709	0.0912095	0.26655672	2.3911655	21	3 11.6	21.3
542140 2012 XJ_{30}	17.9	X	79.69542	189.57923	270.69852	4.24856	0.1938917	0.26128596	2.4232153	21	3 6.8	20.5
542141 2012 XE_{39}	18.0	X	232.34290	233.87709	90.91189	6.07928	0.2307814	0.27740023	2.3284388	21	2 26.3	21.9
542142 2012 XS_{48}	17.9	X	184.78066	114.85427	288.73066	5.53219	0.1214332	0.28105149	2.3082284	21	4 18.1	21.3
542143 2012 XS_{54}	18.1	X	175.04475	44.31223	302.31833	6.65433	0.4004434	0.27059383	2.3673226	21	2 13.6	22.7
542144 2012 XH_{62}	17.8	X	56.97382	50.55177	138.82806	6.75844	0.1634956	0.28029167	2.3123980	21	6 5.8	20.1
542145 2012 XS_{62}	18.0	X	241.75953	226.14221	124.43802	7.52420	0.2208584	0.28909184	2.2652293	21	4 7.3	21.7
542146 2012 XO_{68}	18.0	X	100.95166	312.39382	187.71758	3.45339	0.0351658	0.28344272	2.2952280	21	5 10.8	20.6
542147 2012 XO_{73}	17.7	X	338.04567	117.00341	100.98654	2.41589	0.1331292	0.26872400	2.3782915	21	2 12.9	20.4
542148 2012 XR_{78}	18.0	X	212.34534	201.63359	110.83817	4.25640	0.1372853	0.26660282	2.3908898	21	1 24.5	21.7
542149 2012 XK_{87}	17.7	X	125.42238	291.68037	244.14340	6.46949	0.0486287	0.30240326	2.1982567	21	8 4.9	20.4
542150 2012 XT_{87}	18.3	X	215.42683	108.03015	237.75211	3.48681	0.2165088	0.27991867	2.3144518	21	3 6.1	22.3
542151 2012 XU_{89}	17.9	X	43.40194	356.47036	187.57383	0.29065	0.0826554	0.27861623	2.3216591	21	4 20.6	20.1
542152 2012 XA_{102}	17.9	X	110.66652	89.32873	37.44772	7.70029	0.0498371	0.28128267	2.3069636	21	5 6.6	20.5
542153 2012 XB_{103}	18.3	X	194.86731	326.73295	33.15974	5.30003	0.2355741	0.27943627	2.3171147	21	3 11.1	22.2
542154 2012 XB_{114}	18.3	X	214.52516	223.27011	137.79043	5.21271	0.1502031	0.28135770	2.3065534	21	3 28.5	21.8
542155 2012 XK_{114}	17.3	X	211.72003	141.10911	177.66853	6.36236	0.1237556	0.26679359	2.3897499	21	1 29.8	21.0
542156 2012 XG_{125}	17.5	X	316.23834	170.42517	119.42607	7.66092	0.1567343	0.28973746	2.2618629	21	4 19.4	20.1
542157 2012 XB_{139}	18.1	X	149.79349	48.36568	25.08918	4.64102	0.2269384	0.27734381	2.3287546	21	5 1.4	21.8
542158 2012 XE_{142}	17.5	X	46.62344	330.22747	199.42569	7.02552	0.0470012	0.27508965	2.3414589	21	4 1.9	20.1
542159 2012 XP_{150}	17.9	X	120.59638	120.48609	356.33665	7.13674	0.1853024	0.27841873	2.3227568	21	5 23.8	21.3
542160 2012 XC_{153}	15.6	X	66.84964	348.16145	60.45936	9.66910	0.2578951	0.12471102	3.9676452	21	1 23.5	20.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
542161 2012 XL_{159}	18.2	X	141.04700	266.80589	236.94800	1.69330	0.0840278	0.29390268	2.2404419	21	7 15.4	21.0
542162 2012 YK_3	18.1	X	205.10088	268.68416	89.76012	23.30439	0.1599435	0.38529355	1.8704304	21	3 14.8	21.2
542163 2012 YO_{10}	17.6	X	11.65964	262.30223	298.08086	6.21731	0.0417702	0.26433939	2.4045185	21	3 20.6	20.5
542164 2013 AO	17.3	X	149.97085	21.37652	79.75177	8.51050	0.0465732	0.27902488	2.3193917	21	5 24.9	20.3
542165 2013 AP_1	16.6	X	354.73070	229.58249	313.20262	5.74007	0.0696038	0.25185257	2.4833530	21	2 2.1	19.5
542166 2013 AY_5	17.1	X	196.00141	201.53411	83.31190	4.52711	0.0730501	0.24501572	2.5293373	21	—	—
542167 2013 AZ_6	15.7	X	46.19835	44.83730	270.85827	9.06167	0.0929763	0.19858495	2.9096349	21	10 25.6	19.7
542168 2013 AR_7	16.0	X	122.89053	359.73443	306.47910	10.98687	0.1009764	0.21313826	2.7756313	21	—	—
542169 2013 AD_8	13.4	X	19.59704	229.13262	130.59257	8.45829	0.0184400	0.08069064	5.3038017	21	10 25.9	20.4
542170 2013 AR_8	16.7	X	176.41115	218.62637	90.78828	15.80316	0.1148746	0.23861512	2.5743687	21	—	—
542171 2013 AG_{15}	16.6	X	71.66584	225.61417	118.53517	8.81813	0.2088138	0.23392661	2.6086529	21	—	—
542172 2013 AN_{15}	16.5	X	2.97031	285.62292	135.39432	14.19409	0.1303304	0.22022124	2.7157925	21	—	—
542173 2013 AE_{16}	17.0	X	344.85157	27.07687	36.47497	3.64776	0.0719216	0.22031567	2.7150164	21	12 20.9	20.4
542174 2013 AG_{18}	17.1	X	13.76922	194.72331	107.15901	4.88730	0.1388866	0.29596084	2.2300429	21	9 10.3	19.0
542175 2013 AG_{19}	17.4	X	99.28654	170.90537	310.06653	5.30924	0.0190210	0.26403023	2.4063952	21	4 6.5	20.4
542176 2013 AP_{21}	16.5	X	14.88700	6.79571	21.00962	3.77622	0.0981526	0.21031150	2.8004471	21	12 19.0	20.1
542177 2013 AX_{21}	16.5	X	152.24686	228.37106	94.26847	15.77230	0.1782585	0.24603732	2.5223309	21	—	—
542178 2013 AD_{26}	17.8	X	160.39224	275.84711	90.99199	6.54364	0.1593177	0.26435249	2.4044391	21	2 14.1	21.4
542179 2013 AG_{28}	17.9	X	82.07909	329.59807	195.82578	1.82973	0.1653303	0.26745005	2.3858378	21	6 11.2	20.7
542180 2013 AS_{29}	17.8	X	138.99118	54.73298	96.98632	5.85435	0.1772869	0.28109328	2.3079996	21	7 31.6	21.3
542181 2013 AK_{30}	17.7	X	15.98492	249.11236	14.66544	7.15231	0.0991070	0.28571746	2.2830295	21	7 6.9	19.9
542182 2013 AX_{30}	16.7	X	29.08160	178.62030	158.00738	8.72677	0.1209855	0.21237051	2.7823168	21	11 10.0	20.3
542183 2013 AJ_{32}	18.3	X	132.39395	165.73287	322.73897	1.88034	0.1512931	0.27979328	2.3151432	21	6 20.2	21.6
542184 2013 AB_{34}	17.3	X	287.15007	338.18825	314.44080	6.24657	0.1228755	0.27026789	2.3692256	21	3 15.1	20.6
542185 2013 AU_{40}	16.5	X	33.28398	142.03614	157.65075	3.00223	0.0259413	0.18270508	3.0758770	21	9 10.5	20.7
542186 2013 AZ_{40}	16.5	X	228.83575	344.22597	291.34790	8.36466	0.1015564	0.23616715	2.5921277	21	—	—
542187 2013 AB_{43}	13.4	X	276.29561	4.32429	107.35514	11.87240	0.1482762	0.08411179	5.1589912	21	10 18.1	20.3
542188 2013 AC_{44}	18.0	X	123.77435	197.35700	297.48633	6.35982	0.1222408	0.27591104	2.3368096	21	6 15.9	21.1
542189 2013 AL_{44}	18.0	X	140.89465	160.96694	323.36020	7.29862	0.0462940	0.27634031	2.3343890	21	6 13.9	21.2
542190 2013 AE_{45}	17.1	X	56.41383	138.56367	311.51554	13.91664	0.0875414	0.23945468	2.5683477	21	1 8.5	20.0
542191 2013 AH_{47}	16.8	X	52.22237	332.21580	83.74574	11.38786	0.1126581	0.23638596	2.5905279	21	—	—
542192 2013 AY_{50}	17.7	X	182.41750	290.56957	99.74894	22.48198	0.3209410	0.27478025	2.3432163	21	4 20.0	22.5
542193 2013 AT_{53}	17.1	X	324.99950	1.33901	61.47044	4.90643	0.0870789	0.21357305	2.7718629	21	11 18.4	20.4
542194 2013 AW_{53}	16.6	X	335.49515	101.58714	289.48214	7.54391	0.1726472	0.21007304	2.8025659	21	10 18.2	19.6
542195 2013 AX_{54}	13.8	X	50.87655	211.60053	114.97549	2.23632	0.0222400	0.08093610	5.2930730	21	10 22.9	20.8
542196 2013 AE_{56}	16.0	X	311.02103	241.94888	86.06763	10.77599	0.0397715	0.16937441	3.2352227	21	6 25.3	20.3
542197 2013 AA_{57}	18.1	X	73.47858	165.42477	347.36346	2.80249	0.0806400	0.26557018	2.3970836	21	4 24.8	20.9
542198 2013 AE_{59}	16.4	X	255.49946	297.53335	290.27082	10.56553	0.0329354	0.22954882	2.6417153	21	—	—
542199 2013 AR_{61}	18.0	X	102.03845	117.05455	44.66081	5.37315	0.1274546	0.27907614	2.3191077	21	6 27.2	20.9
542200 2013 AJ_{64}	16.2	X	260.05974	299.40824	97.34488	13.51264	0.0918066	0.17992704	3.1074567	21	7 9.9	20.6
542201 2013 AX_{65}	17.7	X	330.16834	218.26416	75.68662	6.01192	0.1189263	0.29051677	2.2578162	21	5 22.9	19.8
542202 2013 AM_{66}	17.7	X	306.19023	41.09992	301.08621	4.01130	0.0578927	0.29826658	2.2185352	21	7 5.1	19.8
542203 2013 AU_{66}	16.7	X	337.35183	322.51788	67.93258	6.77316	0.0613295	0.20844381	2.8171505	21	10 26.8	20.2
542204 2013 AP_{67}	18.0	X	166.07358	178.25573	328.54327	2.91595	0.0647048	0.30308683	2.1949502	21	8 19.9	20.8
542205 2013 AP_{68}	17.7	X	184.43548	41.27708	4.43427	2.84137	0.1877898	0.28143523	2.3061298	21	4 24.5	21.4
542206 2013 AT_{70}	13.2	X	290.52461	129.62192	318.27564	16.89198	0.0683074	0.08123076	5.2802650	21	10 4.5	20.2
542207 2013 AP_{75}	13.8	X	305.34564	337.33747	96.38181	6.37859	0.0755015	0.08266839	5.2188690	21	10 17.0	20.5
542208 2013 AM_{77}	18.1	X	156.53703	38.82616	22.67448	4.78649	0.1771006	0.26875208	2.3781258	21	4 19.4	21.6
542209 2013 AE_{79}	13.1	X	289.82671	318.34843	130.57647	26.37968	0.0633698	0.08284781	5.2113315	21	10 22.8	20.2
542210 2013 AB_{80}	18.6	X	173.08042	274.84178	118.38158	6.59458	0.2691244	0.27036805	2.3686404	21	4 6.9	22.7
542211 2013 AV_{80}	16.3	X	189.25200	357.20100	296.79461	9.81704	0.1117481	0.23593350	2.5938388	21	—	—
542212 2013 AD_{81}	17.1	X	13.62112	289.53840	295.01377	5.74144	0.0805781	0.27030088	2.3690328	21	4 27.1	19.6
542213 2013 AZ_{81}	17.9	X	187.90693	164.17319	301.74299	7.93754	0.0556121	0.29054542	2.2576678	21	7 19.8	20.7
542214 2013 AT_{84}	16.6	X	102.60378	165.51943	104.70281	7.28382	0.0402152	0.19959029	2.8998561	21	11 5.9	20.8
542215 2013 AU_{84}	17.4	X	230.30563	251.74087	69.75120	2.28116	0.1993203	0.26162062	2.4211483	21	2 21.6	21.4
542216 2013 AT_{85}	17.1	X	114.46161	283.49597	21.54160	1.58784	0.0731034	0.21623848	2.7490379	21	—	—
542217 2013 AA_{88}	16.7	X	62.67476	236.02161	89.52054	5.93777	0.0612401	0.20681806	2.8318945	21	11 28.3	20.6
542218 2013 AW_{89}	16.8	X	277.74779	112.99589	90.39549	12.42414	0.1323356	0.22530237	2.6748055	21	—	—
542219 2013 AC_{90}	17.7	X	104.86787	135.98209	70.25439	6.71341	0.0530254	0.28626453	2.2801199	21	8 27.3	20.6
542220 2013 AC_{91}	17.8	X	197.98429	133.54995	303.69971	8.77877	0.1646641	0.28738865	2.2741702	21	6 18.4	21.3
542221 2013 AG_{91}	16.1	X	30.71097	204.61347	103.12933	11.04065	0.0471935	0.17817433	3.1278023	21	9 24.5	20.5
542222 2013 AC_{92}	16.7	X	100.74464	354.75808	314.54795	2.19000	0.0642757	0.22222427	2.6994485	21	12 24.9	20.5
542223 2013 AO_{92}	17.6	X	203.58630	108.58108	262.78107	5.81671	0.1517663	0.27126145	2.3634368	21	3 27.2	21.3
542224 2013 AW_{92}	17.3	X	324.95348	216.20877	60.25318	7.87821	0.1294771	0.27427128	2.3461143	21	4 18.9	19.8
542225 2013 AF_{97}	15.8	X	30.32854	16.45977	297.96897	8.22657	0.0291844	0.18784104	3.0195511	21	9 21.6	20.1
542226 2013 AO_{98}	15.8	X	201.77364	286.93843	71.87124	10.71551	0.1027820	0.15651515	3.4100844	21	3 29.6	21.2
542227 2013 AR_{98}	18.2	X	49.17957	172.69620	5.25404	3.80187	0.0585327	0.26938900	2.3743759	21	4 19.4	20.7
542228 2013 AJ_{99}	16.7	X	193.34203	324.03937	315.68410	11.58961	0.0899961	0.22900826	2.6458707	21	—	—
542229 2013 AY_{99}	16.7	X	253.92241	138.38502	46.09699	9.43644	0.0874477	0.21793338	2.7347663	21	—	—
542230 2013 AE_{102}	17.5	X	193.32778	116.96540	270.19011	3.01757	0.2312312	0.28041308	2.3117305	21	4 8.8	21.4
542231 2013 AC_{103}	16.3	X	132.11034	245.85092	105.08956	13.98742	0.2182849	0.24072973	2.5592708	21	1 4.2	19.9
542232 2013 AZ_{105}	18.2	X	150.67802	0.91743	162.98664	4.62392	0.0793869	0.29344020	2.2427953	21	8 24.4	21.0
542233 2013 AH_{106}	16.9	X	355.03270	333.60389	269.82497	5.39936	0.1057687	0.26692242	2.3889809	21	4 21.4	19.4
542234 2013 AL_{106}	16.9	X	48.14272	192.86093	161.67617	4.67433	0.0853857	0.20954199	2.8072990	21	12 19.8	20.8
542235 2013 AS_{107}	18.1	X	118.81586	189.00456	272.45187	3.86686	0.1582654	0.26672351	2.3901685	21	4 28.6	21.3
542236 2013 AV_{108}	16.9	X	9.61349	83.97604	289.72237	4.93266	0.0757636	0.20414467	2.8565644	21	11 18.5	20.6
542237 2013 AH_{113}	17.0	X	65.88479	213.84680	122.44327	5.28728	0.0790163	0.21196498	2.7858644	21	12 18.3	20.9
542238 2013 AZ_{115}	18.0	X	99.06576	81.42648	98.94127	4.88355	0.1319073	0.27840554	2.3228302	21	7 20.9	21.0
542239 2013 AF_{116}	16.4	X	239.87964	234.39904	331.94931	8.34633	0.0941369	0.21614649	2.7498178	21	—	—
542240 2013 AV_{116}	17.8	X	123.09563	53.97623	19.21768	4.41140	0.2022442	0.26052084	2.4279574	21	4 3.8	21.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
542241 2013 AZ_{119}	17.6	X	38.13115	237.82810	303.95150	9.08667	0.0715027	0.26551361	2.3974241	21	4 3.3	20.5
542242 2013 AJ_{127}	16.6	X	322.77558	336.83513	93.22941	26.76968	0.1103045	0.21650767	2.7467588	21	11 30.9	20.1
542243 2013 AJ_{128}	16.1	X	15.48207	243.63249	152.14519	9.65000	0.1654164	0.21251804	2.7810289	21	—	—
542244 2013 AO_{131}	18.0	X	85.46027	266.83105	238.62924	2.01451	0.1191713	0.26488035	2.4012436	21	5 10.2	20.7
542245 2013 AP_{131}	15.7	X	124.91282	223.16181	343.13891	15.25348	0.0656740	0.17563011	3.1579366	21	9 9.9	20.4
542246 2013 AL_{132}	13.6	X	288.06269	130.57179	321.44074	9.75766	0.0659099	0.08270290	5.2174172	21	10 10.7	20.5
542247 2013 AX_{133}	17.2	X	161.68947	198.83505	243.52062	5.70695	0.1482412	0.28071041	2.3100978	21	5 19.6	20.5
542248 2013 AF_{137}	17.9	X	345.58355	128.32990	143.90967	6.37839	0.1013120	0.27450392	2.3447885	21	5 22.7	20.3
542249 2013 AH_{137}	17.6	X	312.35733	18.59263	257.56155	1.62857	0.1869516	0.26393304	2.4069859	21	3 18.3	20.4
542250 2013 AT_{137}	16.5	X	193.65618	31.26621	259.41369	10.04277	0.1407868	0.23046823	2.6346848	21	—	—
542251 2013 AH_{150}	18.0	X	13.11604	62.58352	206.19927	7.51403	0.1270746	0.28387256	2.2929105	21	7 8.3	20.1
542252 2013 AW_{150}	18.0	X	246.17660	156.20375	168.54801	9.16321	0.2360907	0.26816482	2.3815965	21	3 7.3	21.7
542253 2013 AR_{154}	17.4	X	18.91337	235.15861	233.45949	11.06393	0.0397527	0.23580865	2.5947543	21	—	—
542254 2013 AY_{159}	17.0	X	166.38021	94.27041	179.15523	9.00791	0.0975357	0.21860747	2.7291415	21	—	—
542255 2013 AB_{166}	16.3	X	269.51320	168.89290	219.25494	9.26041	0.1185623	0.17773667	3.1329348	21	7 5.2	20.9
542256 2013 AW_{180}	16.4	X	31.72003	128.29256	164.88075	10.47175	0.0721041	0.18172424	3.0869350	21	9 4.5	20.3
542257 2013 AX_{182}	16.6	X	42.09809	228.25697	222.93226	11.28499	0.1184157	0.23864314	2.5741671	21	—	—
542258 2013 AP_{183}	5.6	X	46.43724	216.03082	193.16197	3.33958	0.3692816	0.00226010	57.5065661	21	2 4.0	22.5
542259 2013 AY_{185}	17.2	X	359.89565	175.34900	287.83394	3.41180	0.0867824	0.22899121	2.6460020	21	—	—
542260 2013 AF_{187}	17.8	X	61.00721	259.38023	189.79940	4.97017	0.1388962	0.24355149	2.5394648	21	1 13.9	20.5
542261 2013 BJ	14.0	X	109.46310	282.78836	342.64673	6.76154	0.1024812	0.08162848	5.2630993	21	10 25.1	21.2
542262 2013 BL	13.7	X	44.91032	256.67987	76.30636	8.45977	0.0220245	0.08449754	5.1432780	21	10 25.6	20.5
542263 2013 BS	13.5	X	282.86427	341.79274	113.25001	4.75306	0.0459556	0.08355341	5.1819507	21	10 16.9	20.3
542264 2013 BC_2	14.0	X	213.53698	173.03348	3.15706	7.16232	0.0329348	0.08572963	5.0938806	21	10 29.1	21.0
542265 2013 BT_2	13.9	X	92.67126	206.37883	78.64104	5.36233	0.0338739	0.08238433	5.2308584	21	10 25.8	20.8
542266 2013 BJ_5	15.8	X	335.04777	184.73863	136.35673	18.04607	0.2053751	0.17732004	3.1378403	21	7 6.0	19.4
542267 2013 BX_5	17.3	X	251.08753	72.58219	244.98874	5.64793	0.1257563	0.26242637	2.4161899	21	3 7.5	20.9
542268 2013 BV_8	17.3	X	335.57128	103.44331	330.46962	3.58891	0.0423045	0.21266005	2.7797908	21	12 17.6	20.9
542269 2013 BZ_9	17.7	X	16.50561	154.51781	98.60847	8.02822	0.0862823	0.27952874	2.3166037	21	6 18.9	19.8
542270 2013 BJ_{10}	17.0	X	34.96124	253.64307	116.87551	5.40403	0.0832413	0.21250703	2.7811250	21	12 23.2	20.6
542271 2013 BU_{11}	17.6	X	16.44424	139.31481	111.48975	11.74078	0.1557038	0.27832028	2.3233046	21	6 19.4	19.5
542272 2013 BO_{12}	17.7	X	76.87913	42.75777	97.81092	7.14828	0.0768300	0.26403848	2.4063450	21	4 17.2	20.6
542273 2013 BG_{13}	18.5	X	175.93658	102.33038	327.49679	5.02426	0.1948808	0.28063012	2.3105384	21	5 17.4	22.2
542274 2013 BN_{14}	16.9	X	288.23103	101.90820	56.44033	3.61427	0.0812881	0.21778323	2.7360231	21	—	—
542275 2013 BY_{16}	13.8	X	259.29841	330.17307	140.83139	8.30358	0.0623551	0.08214352	5.2410766	21	10 6.6	20.8
542276 2013 BB_{19}	12.8	X	186.02349	99.92470	96.12712	22.08877	0.0334828	0.08308209	5.2015300	21	11 2.2	20.1
542277 2013 BZ_{21}	17.5	X	61.96136	61.15480	91.93287	4.11067	0.0743750	0.26195560	2.4190838	21	4 9.9	20.2
542278 2013 BW_{22}	17.8	X	140.39169	132.08295	274.65104	5.28332	0.1773925	0.26714511	2.3876531	21	3 12.4	21.3
542279 2013 BB_{23}	17.4	X	59.32357	29.19522	144.26945	21.34066	0.2015644	0.26293979	2.4130436	21	5 29.4	20.5
542280 2013 BO_{25}	16.2	X	96.55749	141.69069	133.53053	6.06814	0.1828521	0.19122985	2.9837717	21	11 17.2	21.0
542281 2013 BN_{28}	17.1	X	251.06495	4.15138	283.56568	5.45135	0.1289405	0.25774022	2.4453888	21	1 31.3	20.8
542282 2013 BU_{28}	15.8	X	336.81107	130.01702	214.74275	8.84266	0.0926209	0.18418988	3.0593245	21	8 16.5	19.7
542283 2013 BC_{30}	17.6	X	220.99789	217.12425	1.53274	3.36290	0.0371243	0.21909121	2.7251228	21	—	—
542284 2013 BB_{33}	17.6	X	107.16560	198.18188	341.00235	6.48617	0.0348810	0.28548254	2.2842818	21	7 17.2	20.4
542285 2013 BE_{33}	17.2	X	4.93718	251.85761	190.90384	0.25633	0.0760498	0.23113329	2.6296284	21	—	—
542286 2013 BL_{33}	18.0	X	100.99287	8.09696	163.82990	2.35477	0.1206063	0.27811456	2.3244501	21	7 9.1	20.9
542287 2013 BV_{34}	16.5	X	113.19712	320.65148	281.24818	4.53321	0.1463640	0.18872752	3.0100882	21	10 17.4	21.3
542288 2013 BA_{35}	17.0	X	105.03696	84.52015	286.39283	3.84141	0.2199325	0.24028425	2.5624330	21	—	—
542289 2013 BT_{35}	16.6	X	113.16843	26.05104	178.75591	0.98370	0.0983760	0.17691469	3.1426315	21	8 29.9	21.3
542290 2013 BV_{35}	17.0	X	195.79681	320.43755	284.14085	7.30050	0.0913401	0.21767352	2.7369423	21	—	—
542291 2013 BF_{37}	16.5	X	169.93108	113.05999	140.63974	4.12669	0.0438853	0.21347804	2.7726853	21	12 31.3	20.6
542292 2013 BD_{38}	18.3	X	105.13473	0.56226	120.21091	5.53634	0.1481121	0.26781075	2.3836951	21	5 9.9	21.4
542293 2013 BN_{39}	18.2	X	149.62658	278.20274	149.20419	4.55153	0.2159990	0.26922879	2.3753178	21	4 25.5	22.0
542294 2013 BX_{40}	17.0	X	241.07964	145.22444	326.21433	1.01481	0.1008396	0.18916494	3.0054461	21	9 18.9	21.4
542295 2013 BT_{41}	18.2	X	125.93781	147.11545	311.90888	4.37547	0.1869688	0.26723188	2.3871363	21	5 6.8	21.6
542296 2013 BW_{43}	15.8	X	95.88189	264.89180	113.55476	11.22649	0.3408323	0.12510101	3.9593952	21	2 4.0	21.6
542297 2013 BM_{47}	17.0	X	38.18130	277.16874	79.74652	5.92736	0.0813398	0.20864028	2.8153817	21	12 9.2	20.8
542298 2013 BN_{48}	17.2	X	280.16215	225.81541	89.00875	5.49790	0.1643281	0.27196207	2.3593760	21	4 5.4	20.6
542299 2013 BK_{49}	17.8	X	339.44640	123.51137	101.55369	2.96084	0.1549193	0.25468262	2.4649220	21	2 25.1	20.4
542300 2013 BH_{50}	17.8	X	148.13785	59.48300	331.34760	6.57106	0.1547982	0.25783078	2.4448162	21	3 1.3	21.3
542301 2013 BX_{53}	16.6	X	109.09471	153.72256	98.15657	9.21258	0.0690510	0.19292049	2.9663142	21	10 25.3	21.1
542302 2013 BT_{57}	18.4	X	185.80569	272.22974	112.04330	2.99485	0.2287587	0.27071991	2.3665876	21	4 2.7	22.4
542303 2013 BT_{58}	15.9	X	7.59764	138.66463	141.94773	4.87547	0.0816339	0.16963719	3.2318808	21	7 13.5	20.1
542304 2013 BX_{59}	17.9	X	76.90036	156.62349	3.45995	4.39303	0.1021875	0.26628474	2.3927934	21	5 14.1	20.7
542305 2013 BD_{68}	18.3	X	117.18803	75.44752	57.89078	2.99619	0.1523255	0.27335286	2.3513664	21	6 9.6	21.4
542306 2013 BL_{68}	17.9	X	83.64905	117.81415	90.76041	5.62040	0.1548841	0.28149470	2.3058050	21	8 15.2	20.8
542307 2013 BX_{68}	17.4	X	151.31178	67.95103	349.92476	4.88093	0.1144873	0.26389231	2.4072335	21	4 3.2	20.9
542308 2013 BJ_{70}	17.5	X	34.51501	250.22189	276.77818	17.89572	0.0836395	0.37097606	1.9182511	21	2 5.7	19.2
542309 2013 BV_{74}	16.4	X	281.22965	154.14736	220.04537	2.77741	0.0561791	0.17518211	3.1633182	21	7 12.4	20.8
542310 2013 BH_{78}	17.0	X	124.10316	133.41454	323.42302	24.55651	0.2185791	0.26442981	2.4039704	21	4 23.9	21.2
542311 2013 BK_{79}	17.9	X	171.54329	282.14615	127.79630	0.91591	0.1915848	0.26829542	2.3808235	21	4 20.4	21.6
542312 2013 BD_{81}	18.1	X	183.81976	264.74273	157.78507	4.63622	0.1214300	0.27767918	2.3268792	21	5 16.8	21.5
542313 2013 BZ_{82}	17.7	X	303.70072	264.54428	24.57169	1.28885	0.0582823	0.26140235	2.4224960	21	4 15.1	20.8
542314 2013 BA_{83}	18.1	X	6.00571	240.12295	11.82625	6.74303	0.0655673	0.26892738	2.3770922	21	5 26.9	20.7
542315 2013 BR_{83}	18.4	X	127.59497	253.22659	170.05231	6.00032	0.1252389	0.26018852	2.4300243	21	3 16.8	21.7
542316 2013 CV	14.1	X	178.68339	12.12207	196.60857	3.95105	0.0223751	0.08210497	5.2427170	21	10 30.7	21.1
542317 2013 CQ_2	15.7	X	296.09027	140.10987	278.11892	10.32571	0.0441435	0.19268119	2.9687697	21	9 24.7	19.9
542318 2013 CH_5	18.2	X	120.78604	304.19597	162.78817	6.81679	0.1433371	0.26708254	2.3880260	21	5 10.0	21.5
542319 2013 CT_7	16.5	X	345.69050	79.73533	313.99178	8.10476	0.0837589	0.20061458	2.8899770	21	11 6.3	20.2
542320 2013 CV_8	16.8	X	302.90743	324.88477	212.31830	3.46819	0.1093773	0.22663378	2.6643194	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
542321 2013 CV_{9}	17.5	X	27.03190	56.63156	141.03132	6.60926	0.0785531	0.26222126	2.4174497	21	4 17.5	20.1
542322 2013 CF_{12}	17.4	X	5.99811	100.75212	38.49937	3.79757	0.1210591	0.23601821	2.5932181	21	—	—
542323 2013 CR_{12}	14.2	X	281.90139	106.94826	13.85044	7.31683	0.0645455	0.08513282	5.1176594	21	11 7.4	20.9
542324 2013 CC_{14}	17.2	X	217.53510	308.03572	353.08856	4.98713	0.1522613	0.23695577	2.5863732	21	1 21.1	21.4
542325 2013 CB_{16}	13.7	X	28.49037	239.67323	134.78261	11.27025	0.0494782	0.08401381	5.1630018	21	11 23.7	20.5
542326 2013 CO_{16}	17.9	X	127.34156	257.66410	267.64405	1.89247	0.1308145	0.28011752	2.3133563	21	8 1.9	21.2
542327 2013 CX_{16}	17.6	X	163.38686	222.16647	222.77987	0.84222	0.1582231	0.27163277	2.3612825	21	5 25.9	21.3
542328 2013 CY_{17}	17.1	X	20.60180	168.05055	102.14596	5.47902	0.1153065	0.27530605	2.3402318	21	7 27.2	19.1
542329 2013 CT_{18}	17.5	X	196.91182	347.14942	113.93449	5.94556	0.0886203	0.28305774	2.2973087	21	7 22.5	20.7
542330 2013 CC_{20}	16.0	X	205.21982	176.35471	292.13798	9.51453	0.1783055	0.17463176	3.1699608	21	8 1.3	21.3
542331 2013 CY_{21}	16.7	X	123.14648	24.05934	44.30950	7.09870	0.1115052	0.25213969	2.4814674	21	3 20.2	20.0
542332 2013 CS_{24}	17.7	X	74.78647	324.20632	276.07190	7.58100	0.1114139	0.28562527	2.2835207	21	9 4.8	20.6
542333 2013 CV_{24}	18.2	X	167.28520	146.93103	270.13259	3.98874	0.1497555	0.26852644	2.3794578	21	4 21.3	21.8
542334 2013 CG_{25}	17.4	X	332.32410	92.55941	159.22883	6.46511	0.0993600	0.25941446	2.4348559	21	3 31.7	20.1
542335 2013 CJ_{25}	18.2	X	102.06626	308.63177	180.14661	2.26013	0.1459173	0.26581012	2.3956409	21	5 15.3	21.3
542336 2013 CP_{26}	16.6	X	227.71608	162.66747	291.75343	3.84319	0.1442752	0.17952649	3.1120772	21	8 8.4	21.4
542337 2013 CL_{27}	16.0	X	321.76519	77.50327	281.04663	10.16422	0.0664317	0.17479330	3.1680074	21	8 12.9	20.4
542338 2013 CR_{27}	16.4	X	143.22988	110.90520	139.50981	13.42356	0.0357942	0.20518501	2.8469005	21	11 29.3	20.8
542339 2013 CM_{29}	17.9	X	296.17678	252.59582	118.95798	4.83627	0.1428487	0.29323248	2.2438544	21	7 19.3	20.0
542340 2013 CY_{30}	16.9	X	162.31678	167.61170	70.95614	3.02485	0.0277807	0.20129023	2.8835064	21	12 2.8	20.8
542341 2013 CR_{31}	16.3	X	176.05042	98.17510	108.55931	13.04255	0.1541577	0.18521448	3.0480313	21	11 7.9	21.4
542342 2013 CY_{31}	16.0	X	251.09412	292.99722	291.34530	11.34113	0.1056260	0.22099826	2.7094230	21	—	—
542343 2013 CP_{32}	16.8	X	113.12937	346.70265	20.24336	5.97463	0.0926576	0.22378730	2.6868644	21	—	—
542344 2013 CT_{34}	17.6	X	176.58969	118.57871	330.64916	23.47926	0.2511948	0.27860646	2.3217134	21	6 16.0	22.1
542345 2013 CU_{34}	16.0	X	95.48070	5.62834	38.39682	9.74387	0.3317010	0.24211119	2.5495262	21	2 16.9	19.2
542346 2013 CV_{35}	13.6	X	119.44445	246.47819	20.60294	14.80684	0.0225323	0.08417122	5.1565627	21	10 29.7	20.6
542347 2013 CS_{37}	16.3	X	269.65137	312.05952	211.98530	12.68703	0.1195025	0.21013707	2.8019965	21	12 29.7	20.1
542348 2013 CA_{38}	17.9	X	93.13171	189.09959	303.43005	10.87646	0.1895025	0.26182655	2.4198787	21	5 11.4	21.2
542349 2013 CF_{38}	16.2	X	183.75137	44.86348	93.35875	11.19399	0.1611699	0.17576221	3.1563540	21	8 23.5	21.5
542350 2013 CF_{39}	13.7	X	173.39126	182.25952	36.07207	3.74670	0.0157718	0.08107309	5.2871086	21	11 3.9	20.6
542351 2013 CC_{42}	17.3	X	124.59409	198.49470	171.20905	13.85707	0.1840840	0.23601141	2.5932679	21	1 13.7	21.1
542352 2013 CE_{44}	13.9	X	302.77552	330.45601	122.08324	9.96178	0.0224094	0.08283302	5.2119517	21	11 9.6	20.8
542353 2013 CN_{45}	17.8	X	66.56715	186.50861	118.71424	4.17808	0.1903985	0.30582273	2.1818399	21	12 10.4	20.9
542354 2013 CN_{48}	16.6	X	172.71009	266.88468	261.17106	6.89538	0.0903737	0.18672076	3.0316168	21	9 12.8	21.5
542355 2013 CP_{48}	18.0	X	63.32996	137.85370	46.15935	2.04223	0.1215190	0.26619398	2.3933372	21	6 1.0	20.5
542356 2013 CT_{51}	16.8	X	170.67102	191.26933	331.90643	4.62342	0.0842886	0.17858688	3.1229834	21	9 7.2	21.5
542357 2013 CX_{52}	16.7	X	319.85925	81.04186	70.86873	13.92198	0.1445344	0.21689212	2.7435120	21	—	—
542358 2013 CN_{53}	17.2	X	283.57342	125.25196	310.32201	2.33114	0.0832651	0.18897882	3.0074191	21	9 29.1	21.2
542359 2013 CC_{54}	16.5	X	108.76569	96.62522	156.10836	11.52050	0.2381455	0.17726254	3.1385188	21	11 5.9	21.9
542360 2013 CA_{57}	17.4	X	73.27747	200.69534	229.61734	9.89388	0.0660281	0.24102026	2.5572137	21	1 2.7	20.6
542361 2013 CF_{57}	16.7	X	332.18025	306.16706	248.45144	8.84980	0.0309049	0.24148027	2.5539650	21	1 21.9	20.2
542362 2013 CO_{57}	14.4	X	299.98856	343.23909	254.36825	9.50581	0.1254043	0.12375406	3.9880727	21	2 10.9	20.1
542363 2013 CY_{58}	16.1	X	98.69232	106.27885	158.01039	9.21374	0.0613054	0.19038166	2.9926274	21	10 26.2	20.5
542364 2013 CG_{59}	18.4	X	150.93041	251.21312	171.50375	4.04435	0.2198207	0.26790716	2.3831232	21	4 20.4	22.1
542365 2013 CD_{60}	16.3	X	245.45895	256.87031	302.63063	5.25115	0.0212398	0.21609553	2.7502501	21	—	—
542366 2013 CB_{62}	16.3	X	146.18152	352.49716	163.90815	10.53706	0.1092860	0.16786797	3.2545490	21	8 4.4	21.4
542367 2013 CF_{62}	17.1	X	333.67414	138.06687	41.16571	9.48998	0.1001637	0.23827353	2.5768285	21	—	—
542368 2013 CT_{62}	18.1	X	75.93363	327.02393	240.02692	3.94206	0.1762280	0.27533517	2.3400668	21	8 2.2	21.1
542369 2013 CU_{62}	18.2	X	183.29354	167.90468	267.12678	5.79806	0.1499414	0.27798087	2.3251953	21	5 31.8	21.7
542370 2013 CC_{63}	17.9	X	127.10149	208.31744	245.34647	5.04708	0.1021251	0.26320083	2.4114479	21	4 20.9	21.1
542371 2013 CD_{63}	16.0	X	323.27354	98.44680	288.21870	9.78054	0.0434518	0.18641816	3.0348966	21	9 21.3	20.3
542372 2013 CG_{66}	18.2	X	133.41369	226.22757	277.94943	1.68488	0.1702641	0.27754027	2.3276555	21	7 14.3	21.7
542373 2013 CB_{67}	17.0	X	13.10311	37.27433	184.16995	4.94398	0.1006424	0.25973074	2.4328788	21	4 26.5	19.3
542374 2013 CR_{67}	16.0	X	181.77834	204.65472	310.31554	9.05622	0.0507133	0.17903897	3.1177240	21	9 7.1	20.7
542375 2013 CV_{67}	15.7	X	23.67944	7.84852	306.47204	14.51800	0.0896278	0.17969257	3.1101593	21	9 14.7	19.9
542376 2013 CZ_{68}	17.9	X	168.98072	273.18346	172.07349	4.53944	0.1506368	0.27586046	2.3370952	21	6 1.2	21.5
542377 2013 CN_{70}	18.1	X	95.56539	322.13966	181.55071	2.10292	0.1543031	0.26443343	2.4039484	21	5 28.7	21.0
542378 2013 CZ_{70}	14.2	X	248.59532	248.33383	260.32803	7.53069	0.1119945	0.08434612	5.1494319	21	10 26.5	21.2
542379 2013 CA_{71}	17.2	X	4.50033	32.98219	179.62629	6.59687	0.0668325	0.25929403	2.4356097	21	3 30.3	19.8
542380 2013 CO_{72}	16.8	X	204.90330	143.52567	157.38089	11.06977	0.0407110	0.23935446	2.5690646	21	1 3.7	20.6
542381 2013 CH_{73}	18.2	X	144.86517	210.45137	201.97801	1.43804	0.2018421	0.26195845	2.4190663	21	3 30.2	21.8
542382 2013 CA_{74}	17.8	X	127.77806	85.30518	17.65437	2.61157	0.1111552	0.26545089	2.3978017	21	5 6.2	20.9
542383 2013 CK_{74}	16.3	X	60.34407	238.34234	161.08597	8.83722	0.0883930	0.22227368	2.6990485	21	—	—
542384 2013 CO_{75}	16.3	X	200.00831	144.32745	135.64885	12.16522	0.1033045	0.22035145	2.7147225	21	—	—
542385 2013 CP_{78}	15.5	X	97.03853	322.76837	278.12391	8.32341	0.0338259	0.17946184	3.1128245	21	9 13.4	20.0
542386 2013 CC_{79}	17.7	X	130.53874	149.51667	312.56153	5.85254	0.0833632	0.26958310	2.3732361	21	5 2.5	21.0
542387 2013 CF_{81}	16.7	X	213.62162	210.13185	279.08261	8.87991	0.0639412	0.18145010	3.0900433	21	9 8.8	21.4
542388 2013 CQ_{81}	16.6	X	151.84961	303.40281	277.83050	8.81904	0.0722796	0.18839898	3.0135867	21	10 26.2	21.3
542389 2013 CY_{82}	16.1	X	281.29554	214.66844	194.96720	4.88979	0.1409957	0.17990699	3.1076877	21	8 13.7	20.5
542390 2013 CB_{84}	16.9	X	92.94690	86.87383	345.11118	15.00970	0.1306676	0.24316538	2.5421522	21	2 16.4	19.9
542391 2013 CX_{87}	18.4	X	315.09574	252.47586	63.88405	23.25510	0.0192838	0.39432406	1.8417635	21	6 8.1	19.8
542392 2013 CE_{90}	17.3	X	40.58343	144.90105	31.03454	3.34570	0.1394204	0.25707690	2.4495935	21	4 11.0	19.5
542393 2013 CK_{90}	17.8	X	214.95650	97.82285	338.80887	6.44256	0.0577845	0.27972938	2.3154958	21	7 13.6	20.9
542394 2013 CE_{91}	16.6	X	268.16177	141.45179	72.44594	15.89600	0.0733650	0.22525239	2.6752012	21	—	—
542395 2013 CR_{91}	17.2	X	173.08448	161.40580	140.44554	13.83881	0.1583740	0.22398529	2.6852809	21	—	—
542396 2013 CX_{91}	16.4	X	65.31003	339.68880	298.50462	3.71555	0.1494210	0.17824382	3.1269893	21	10 9.7	20.9
542397 2013 CT_{94}	17.1	X	3.01867	162.84286	216.39916	1.69903	0.0115090	0.19528674	2.9423041	21	11 10.6	21.2
542398 2013 CY_{94}	17.5	X	247.60222	117.42898	168.76413	3.04372	0.0919364	0.24162717	2.5529298	21	1 31.0	21.3
542399 2013 CH_{95}	13.9	X	256.13755	182.89105	324.48433	6.43356	0.0251141	0.08361650	5.1793436	21	11 12.2	20.8
542400 2013 CO_{95}	16.2	X	357.84052	357.59554	320.98416	8.73579	0.0349401	0.17251177	3.1958782	21	8 16.9	20.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
542401 2013 CF_{98}	15.8	X	280.51028	60.20327	328.21645	14.16436	0.1682863	0.17594402	3.1541793	21	7 16.6	20.3
542402 2013 CJ_{101}	16.9	X	128.89556	72.41617	200.22970	5.23491	0.1007691	0.19609699	2.9341936	21	12 8.3	21.5
542403 2013 CC_{103}	16.3	X	146.27373	186.76765	125.77371	13.23103	0.1506230	0.21837005	2.7311193	21	—	—
542404 2013 CG_{103}	17.5	X	105.29414	306.02363	95.35260	4.56883	0.0352106	0.23678138	2.5876429	21	1 8.9	20.7
542405 2013 CL_{103}	17.7	X	96.42878	18.76660	119.01373	7.01274	0.0661431	0.26442627	2.4039918	21	5 9.6	20.7
542406 2013 CB_{105}	18.0	X	353.72143	280.95694	315.64214	2.35809	0.1487603	0.25762244	2.4461341	21	4 6.3	20.2
542407 2013 CE_{105}	17.8	X	245.51372	75.26634	147.68091	1.85811	0.1037150	0.21953669	2.7214350	21	—	—
542408 2013 CS_{105}	16.6	X	264.97913	270.44326	141.23881	5.31869	0.1464826	0.17854098	3.1235187	21	7 26.8	21.0
542409 2013 CA_{108}	17.1	X	223.36977	262.14011	3.53004	2.86081	0.1475190	0.22262062	2.6962436	21	—	—
542410 2013 CA_{110}	17.9	X	115.16628	357.11657	103.81882	5.79778	0.1898462	0.26250042	2.4157355	21	5 1.9	21.2
542411 2013 CZ_{112}	16.4	X	215.04327	174.54097	130.84238	16.22364	0.1223419	0.23691252	2.5866880	21	1 22.3	20.5
542412 2013 CW_{114}	16.4	X	144.07440	235.52096	309.97864	7.25300	0.0417165	0.17931905	3.1144767	21	9 3.1	20.9
542413 2013 CX_{115}	17.1	X	76.63468	57.71614	83.22366	15.14623	0.1120295	0.26123078	2.4235565	21	4 26.7	20.2
542414 2013 CX_{116}	15.2	X	86.50622	244.72641	67.68410	9.89084	0.0759971	0.18015584	3.1048252	21	12 6.3	19.7
542415 2013 CB_{122}	16.2	X	308.75592	70.67669	330.15922	9.45403	0.0556306	0.18752739	3.0229172	21	9 20.8	20.3
542416 2013 CX_{122}	16.6	X	302.11078	89.45182	146.95415	14.79491	0.1569529	0.23463450	2.6034034	21	1 22.3	20.4
542417 2013 CJ_{123}	16.9	X	80.54148	32.43072	352.56808	5.37238	0.0597279	0.22011839	2.7166384	21	—	—
542418 2013 CA_{125}	18.0	X	107.50746	65.93801	109.50746	6.29088	0.1015083	0.27584240	2.3371972	21	7 20.4	21.0
542419 2013 CP_{125}	17.7	X	65.58381	165.17190	27.86175	8.29654	0.0530531	0.26657289	2.3910687	21	6 5.9	20.6
542420 2013 CW_{127}	17.2	X	346.05156	340.81678	222.16920	7.37882	0.1765103	0.24369659	2.5384566	21	1 31.1	20.2
542421 2013 CB_{128}	18.0	X	64.54997	135.05695	72.69943	20.76006	0.0439093	0.39282175	1.8464563	21	6 22.0	19.4
542422 2013 CT_{129}	15.8	X	131.12988	150.58673	121.31910	28.11909	0.1648185	0.17266302	3.1940117	21	12 13.6	21.4
542423 2013 CP_{132}	16.2	X	243.05763	205.36383	262.92621	7.71776	0.0096622	0.18112495	3.0937404	21	9 25.1	20.7
542424 2013 CA_{136}	16.3	X	91.95089	301.71098	103.11868	16.31767	0.1149630	0.23566214	2.5958295	21	1 5.6	19.4
542425 2013 CQ_{136}	17.6	X	88.00842	60.26144	135.71075	23.57811	0.2126711	0.27346256	2.3507375	21	8 8.9	20.7
542426 2013 CR_{136}	17.2	X	221.98156	352.19352	30.96142	7.03629	0.1445476	0.27064358	2.3670326	21	5 1.8	20.8
542427 2013 CJ_{138}	17.4	X	250.30887	161.53112	101.20800	3.42263	0.1664403	0.23048853	2.6345301	21	1 3.9	21.7
542428 2013 CL_{140}	17.4	X	302.04052	218.51954	95.04420	7.39660	0.1252275	0.26931839	2.3747909	21	5 8.4	20.2
542429 2013 CD_{146}	16.7	X	73.76674	43.61527	331.32274	5.40067	0.0971898	0.21865185	2.7287722	21	—	—
542430 2013 CS_{146}	16.9	X	40.65075	304.29994	100.78939	5.42611	0.0726389	0.21509024	2.7588129	21	—	—
542431 2013 CX_{147}	18.1	X	168.65243	117.10607	350.69255	24.48476	0.2387940	0.28193298	2.3034147	21	7 8.1	22.5
542432 2013 CD_{149}	18.1	X	274.31908	301.78940	132.44090	5.29939	0.1158051	0.30195695	2.2004223	21	9 26.1	20.3
542433 2013 CN_{149}	17.7	X	129.36931	23.70859	82.44707	2.53106	0.1401152	0.26454624	2.4032649	21	5 17.1	20.9
542434 2013 CF_{150}	17.8	X	144.66209	35.75895	33.92770	4.91865	0.1699122	0.25930669	2.4355305	21	4 18.8	21.3
542435 2013 CU_{151}	17.7	X	81.52028	340.00033	95.98226	0.79506	0.1771202	0.24324754	2.5415798	21	2 7.6	20.2
542436 2013 CY_{151}	17.4	X	109.48394	30.68622	338.03232	5.85465	0.0576163	0.22453784	2.6808737	21	—	—
542437 2013 CP_{153}	16.6	X	238.13734	307.89588	345.12833	8.72989	0.1236152	0.23743535	2.5828894	21	1 31.7	20.6
542438 2013 CR_{153}	16.7	X	21.07925	249.59777	106.81768	2.45596	0.0731408	0.19104480	2.9856981	21	11 11.8	20.7
542439 2013 CU_{153}	17.5	X	266.54494	211.40429	128.79265	6.27210	0.1658421	0.26542210	2.3979751	21	4 24.1	21.0
542440 2013 CE_{154}	16.5	X	28.01265	41.49975	335.33106	8.93963	0.1088157	0.20206365	2.8761438	21	12 23.5	20.4
542441 2013 CG_{158}	16.9	X	1.98312	299.89309	131.50433	5.33070	0.0508575	0.21182666	2.7870771	21	—	—
542442 2013 CW_{158}	16.3	X	80.04547	264.29373	353.63799	1.87515	0.0708543	0.17179230	3.2047950	21	9 22.7	20.9
542443 2013 CD_{160}	15.8	X	15.33520	163.66049	150.36267	11.82167	0.0845447	0.17096850	3.2150815	21	9 9.2	19.9
542444 2013 CK_{162}	16.4	X	334.65292	348.79960	160.02661	13.73071	0.1173543	0.22362982	2.6881257	21	—	—
542445 2013 CG_{165}	16.7	X	158.64730	46.73442	168.16173	0.86981	0.0972749	0.18315365	3.0708528	21	10 28.5	21.4
542446 2013 CL_{165}	15.9	X	318.47097	237.65313	170.81050	4.67216	0.1790752	0.18882240	3.0090798	21	10 8.9	19.1
542447 2013 CY_{169}	17.0	X	131.00363	130.91339	183.59160	4.39166	0.0027012	0.21311020	2.7758749	21	—	—
542448 2013 CE_{175}	16.6	X	139.13114	76.18950	165.22885	1.78110	0.1612961	0.18350513	3.0669304	21	11 11.8	21.7
542449 2013 CU_{177}	18.1	X	96.24230	262.36580	258.15571	2.15860	0.1683627	0.26910431	2.3760502	21	6 24.1	21.2
542450 2013 CF_{179}	17.5	X	76.35394	60.25319	141.95671	4.77554	0.1023520	0.27407311	2.3472450	21	7 15.4	20.1
542451 2013 CH_{179}	17.9	X	200.72544	9.58507	83.67612	4.26146	0.1114413	0.28543360	2.2845429	21	7 15.2	21.0
542452 2013 CN_{179}	16.5	X	330.32163	335.43044	104.20702	7.65211	0.0374789	0.20431458	2.8549805	21	12 16.1	20.2
542453 2013 CC_{180}	17.3	X	0.51163	253.81455	10.77139	6.80988	0.0964722	0.26917390	2.3756407	21	6 5.4	19.7
542454 2013 CJ_{182}	17.8	X	22.31181	155.91133	40.10616	2.15683	0.1284255	0.25663770	2.4523874	21	4 4.9	20.2
542455 2013 CM_{184}	17.0	X	269.05052	132.46871	38.51342	8.64905	0.1546674	0.20998121	2.8033829	21	—	—
542456 2013 CX_{184}	17.7	X	93.61080	132.51480	22.88884	6.88033	0.1604795	0.26733613	2.3865156	21	6 11.3	20.8
542457 2013 CG_{186}	17.4	X	178.86013	225.70300	170.58287	8.68574	0.1997824	0.26435993	2.4043940	21	4 11.6	21.3
542458 2013 CQ_{189}	16.0	X	3.88181	226.29109	139.14314	10.56880	0.1009005	0.20208092	2.8759799	21	11 6.4	19.7
542459 2013 CQ_{191}	15.0	X	345.42570	69.10081	141.95433	7.59875	0.1615074	0.12631204	3.9340471	21	3 13.4	19.8
542460 2013 CU_{191}	17.3	X	76.09251	89.80145	50.72604	7.42336	0.0821754	0.25494112	2.4632555	21	4 15.9	20.3
542461 2013 CA_{196}	16.2	X	14.20717	352.07052	331.36074	10.70229	0.0638246	0.17818079	3.1277266	21	9 14.8	20.3
542462 2013 CX_{196}	18.3	X	167.02726	52.40541	357.36942	4.40204	0.2394336	0.26768207	2.3844590	21	4 17.0	22.2
542463 2013 CC_{197}	16.7	X	74.48014	283.22537	8.41810	7.78472	0.0199671	0.18869975	3.0103836	21	10 21.1	21.0
542464 2013 CE_{199}	17.0	X	214.53394	292.84101	22.95999	5.88140	0.0954342	0.24324517	2.5415962	21	2 4.9	20.9
542465 2013 CG_{199}	17.1	X	298.36789	198.16669	99.42524	6.77357	0.1566169	0.26210658	2.4181548	21	4 7.6	20.3
542466 2013 CX_{199}	16.8	X	119.35243	281.19553	36.69464	6.38360	0.0371942	0.21388771	2.7691437	21	—	—
542467 2013 CU_{200}	16.9	X	168.87510	172.79543	106.64934	6.46809	0.1523035	0.21198260	2.7857100	21	—	—
542468 2013 CY_{200}	16.9	X	154.96508	215.13279	125.58501	15.39639	0.1127773	0.23264006	2.6182617	21	1 5.4	20.8
542469 2013 CZ_{200}	17.1	X	113.68446	234.92092	134.01507	12.94909	0.1407284	0.23169974	2.6253408	21	—	—
542470 2013 CX_{202}	17.2	X	158.21211	193.52771	123.19052	4.54211	0.0531794	0.22309032	2.6924578	21	—	—
542471 2013 CA_{204}	17.4	X	141.96164	271.27519	122.13903	6.26780	0.1973820	0.25119470	2.4876870	21	3 6.2	21.2
542472 2013 CB_{206}	18.0	X	78.69305	298.11858	271.31007	3.06024	0.1176567	0.28156892	2.3053997	21	7 31.9	20.8
542473 2013 CY_{207}	16.8	X	242.51004	349.97591	307.22832	3.63810	0.1188794	0.24060053	2.5601869	21	2 7.3	20.6
542474 2013 CZ_{207}	18.0	X	46.80979	41.25514	193.28036	2.15881	0.1432616	0.27158178	2.3615780	21	7 23.1	20.5
542475 2013 CX_{208}	16.6	X	104.86610	60.25602	308.03301	10.95865	0.0642988	0.22026536	2.7154298	21	—	—
542476 2013 CC_{209}	16.1	X	59.96197	83.11480	304.43979	11.33880	0.1250858	0.21638319	2.7478122	21	—	—
542477 2013 CB_{210}	17.9	X	154.20830	237.36344	167.56066	6.34573	0.1512976	0.26231526	2.4168722	21	3 26.4	21.5
542478 2013 CG_{210}	17.5	X	314.16739	199.15328	134.70416	8.05767	0.1873716	0.28869574	2.2673008	21	6 14.5	19.8
542479 2013 CG_{216}	16.7	X	195.12781	343.48283	294.16305	12.66612	0.1513795	0.22045613	2.7138630	21	—	—
542480 2013 CA_{217}	16.5	X	153.12682	213.34389	141.53436	15.59795	0.1970157	0.23217503	2.6217566	21	1 28.9	20.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
542481 2013 CF_{218}	17.0	X	103.28661	81.15952	212.10005	1.40377	0.0781343	0.19617888	2.9333770	21	12 5.0	21.3
542482 2013 CL_{218}	16.5	X	177.27525	14.43274	156.00966	10.88569	0.0258938	0.18135587	3.0911137	21	9 27.2	20.9
542483 2013 CS_{220}	16.7	X	107.17620	199.38796	123.93583	10.17152	0.1450311	0.20889593	2.8130842	21	—	—
542484 2013 CG_{224}	17.2	X	265.34643	334.65229	284.33264	2.07118	0.0347486	0.23618277	2.5920134	21	1 22.9	20.8
542485 2013 CV_{224}	17.9	X	68.17325	217.60645	342.85405	6.22850	0.0635630	0.26737438	2.3862880	21	6 24.5	20.8
542486 2013 CP_{225}	17.3	X	88.95006	35.67621	56.27610	4.67155	0.1506059	0.24607166	2.5220962	21	3 11.3	20.2
542487 2013 CT_{225}	18.1	X	99.82411	213.90075	319.81779	4.17290	0.0314093	0.27219055	2.3580555	21	6 26.7	20.9
542488 2013 CQ_{228}	17.8	X	84.82671	115.87669	117.01503	5.92356	0.1833568	0.26694796	2.3888286	21	9 22.9	21.2
542489 2013 CY_{228}	16.7	X	173.36993	305.08422	329.21583	6.34660	0.1400633	0.21296076	2.7771734	21	—	—
542490 2013 DH	16.7	X	86.82916	211.41247	124.26584	4.69303	0.1021841	0.20933908	2.8091128	21	—	—
542491 2013 DQ	17.3	X	66.75808	70.07851	88.79964	15.16403	0.0611689	0.25326089	2.4741382	21	4 30.1	20.5
542492 2013 DZ_{2}	17.2	X	53.40884	328.05115	238.75047	5.45144	0.0711721	0.26878278	2.3779447	21	6 11.2	19.8
542493 2013 DE_{5}	17.3	X	9.57618	325.89165	339.97533	7.78895	0.1499698	0.28721015	2.2751124	21	9 5.2	18.9
542494 2013 DQ_{6}	15.9	X	316.16102	226.80099	151.72589	12.40882	0.1181606	0.18028088	3.1033893	21	8 29.9	19.7
542495 2013 DR_{7}	17.5	X	95.23298	86.17420	41.00632	7.23382	0.0519560	0.26238757	2.4164281	21	4 18.8	20.3
542496 2013 DQ_{8}	16.8	X	167.56259	294.10230	43.59761	2.84017	0.1042070	0.22853506	2.6495218	21	1 15.6	20.8
542497 2013 DT_{9}	17.0	X	144.97147	342.25635	147.98210	26.43928	0.2367408	0.27508272	2.3414983	21	7 11.9	21.3
542498 2013 DC_{12}	15.8	X	28.72856	72.54726	271.83475	9.10046	0.0885966	0.19123619	2.9837058	21	11 6.3	19.8
542499 2013 DJ_{12}	17.4	X	44.98456	288.92637	261.93682	7.69406	0.0549572	0.26233074	2.4167771	21	4 30.9	20.2
542500 2013 DN_{14}	17.8	X	177.45464	345.33410	48.48365	5.33468	0.1354143	0.26126881	2.4233213	21	4 4.6	21.5
542501 2013 DO_{15}	16.2	X	45.35905	150.12324	190.47299	9.77701	0.0583344	0.19474252	2.9477831	21	11 23.6	20.3
542502 2013 ED	17.4	X	57.33388	208.30844	357.27039	2.22037	0.1363004	0.26572277	2.3961658	21	6 26.4	19.8
542503 2013 EU_{1}	16.0	X	98.95578	121.94805	149.37130	11.04320	0.1058165	0.18361104	3.0657508	21	11 8.5	20.8
542504 2013 EG_{2}	17.1	X	80.38434	308.32935	104.17583	3.89245	0.0745990	0.22982392	2.6396068	21	—	—
542505 2013 EU_{4}	18.6	X	285.45747	337.36302	25.31460	22.14917	0.0571534	0.39297643	1.8459717	21	7 4.8	20.9
542506 2013 EV_{6}	17.4	X	294.12090	203.43967	326.74130	4.17714	0.0538512	0.21661619	2.7458413	21	—	—
542507 2013 EN_{9}	18.2	X	86.28190	189.53306	321.43098	2.38647	0.1845877	0.26200821	2.4187600	21	5 30.3	21.1
542508 2013 EE_{11}	18.3	X	304.88433	300.78404	37.94436	21.62893	0.0726015	0.38972482	1.8562252	21	6 18.4	20.3
542509 2013 EU_{18}	16.9	X	151.75108	33.56162	340.48306	11.93292	0.2437540	0.24010091	2.5637372	21	2 24.1	21.1
542510 2013 EY_{18}	17.3	X	141.78705	339.65246	6.95183	3.77637	0.0908525	0.22408167	2.6845108	21	—	—
542511 2013 EU_{20}	17.0	X	27.33944	191.67014	206.91384	4.36435	0.0772753	0.21229453	2.7829806	21	—	—
542512 2013 EY_{20}	16.4	X	198.07314	123.15888	209.02938	6.88899	0.1966947	0.24121120	2.5558640	21	2 6.9	20.7
542513 2013 EZ_{20}	17.4	X	117.99081	277.11036	218.25193	5.23533	0.0608820	0.26898064	2.3767785	21	6 1.7	20.4
542514 2013 EE_{21}	16.9	X	139.81316	54.41049	195.37546	10.08566	0.1320642	0.19022310	2.9942901	21	11 22.9	21.7
542515 2013 EH_{23}	16.4	X	299.84622	335.22323	317.78440	7.37619	0.2126659	0.24175477	2.5520314	21	3 21.4	20.0
542516 2013 EY_{26}	16.4	X	173.48368	122.44106	151.94718	6.61771	0.0203251	0.20633907	2.8362754	21	—	—
542517 2013 ES_{27}	17.1	X	227.63551	258.17769	55.77780	2.77054	0.1199632	0.23505507	2.6002971	21	2 15.5	21.0
542518 2013 EX_{28}	16.3	X	207.33790	3.73999	177.81740	10.13071	0.0611133	0.18763984	3.0217093	21	11 12.3	20.8
542519 2013 ES_{36}	17.4	X	351.78423	236.18861	54.22254	3.20600	0.2941763	0.26196634	2.4190177	21	6 17.2	18.2
542520 2013 EL_{37}	16.4	X	220.97874	347.28343	154.50766	11.93968	0.0827577	0.18248355	3.0783658	21	10 8.4	21.0
542521 2013 ED_{42}	16.3	X	14.12789	24.38312	339.90798	10.50451	0.1324214	0.18797294	3.0181385	21	11 13.4	20.2
542522 2013 ES_{42}	18.1	X	218.09357	136.69819	281.73964	1.62299	0.1908675	0.27912227	2.3188522	21	6 11.5	21.7
542523 2013 EE_{46}	16.9	X	175.82421	190.70188	175.20726	17.69371	0.1454850	0.24183949	2.5514354	21	2 26.4	20.9
542524 2013 EZ_{48}	17.5	X	119.23495	224.03349	175.82479	13.72835	0.1976049	0.23857262	2.5746744	21	2 15.3	21.1
542525 2013 EY_{50}	17.0	X	185.96431	93.89544	157.43160	5.15505	0.0680030	0.21104016	2.7939973	21	—	—
542526 2013 EX_{54}	16.1	X	267.44059	59.44443	355.30885	8.66243	0.0926082	0.17085416	3.2165157	21	8 13.1	20.7
542527 2013 EY_{58}	16.1	X	215.06657	185.52014	157.99302	9.89975	0.1833071	0.24390581	2.5370048	21	3 9.2	20.2
542528 2013 ET_{61}	16.3	X	358.88894	325.92878	6.64678	2.47821	0.0747270	0.16913724	3.2382464	21	9 6.9	20.4
542529 2013 ET_{62}	17.0	X	170.70037	158.43180	169.65308	6.77999	0.0526669	0.22438101	2.6821227	21	1 2.1	20.9
542530 2013 EB_{68}	16.6	X	276.86462	13.97683	182.57903	8.77651	0.1349364	0.21597369	2.7512844	21	—	—
542531 2013 ED_{69}	18.1	X	217.40400	67.70559	344.23230	5.67394	0.2308590	0.28027094	2.3125120	21	5 30.3	22.0
542532 2013 EY_{69}	18.4	X	59.38264	72.30913	151.64084	2.89632	0.1395649	0.27098414	2.3650489	21	7 27.9	20.9
542533 2013 EU_{70}	17.1	X	143.02062	197.69964	156.48909	4.24863	0.1047331	0.22856435	2.6492954	21	1 7.9	20.7
542534 2013 EV_{70}	16.5	X	233.03301	302.34731	160.56716	5.19243	0.1189091	0.17805420	3.1292090	21	8 27.4	21.1
542535 2013 EZ_{70}	17.0	X	125.76280	73.34514	163.65450	9.40338	0.1104352	0.18040061	3.1020161	21	10 24.9	21.9
542536 2013 EW_{71}	16.3	X	187.54903	335.12010	12.50996	11.21448	0.1912191	0.23885023	2.5726790	21	2 23.1	20.6
542537 2013 EG_{73}	16.4	X	44.75850	306.21482	154.32601	13.36022	0.0688010	0.23129798	2.6283800	21	1 3.7	19.8
542538 2013 ET_{75}	17.7	X	260.09901	348.06413	2.71297	6.88667	0.1153597	0.26398027	2.4066988	21	5 1.7	21.1
542539 2013 EK_{77}	17.9	X	275.84449	221.31383	52.36728	2.27912	0.1526705	0.23754514	2.5820934	21	2 10.9	21.7
542540 2013 EM_{77}	17.6	X	222.82597	258.81685	144.13421	6.05869	0.1521821	0.27349492	2.3505521	21	5 30.3	21.2
542541 2013 EK_{78}	17.3	X	235.12805	333.47539	40.34162	3.22545	0.2126963	0.26661097	2.3908410	21	4 29.5	21.1
542542 2013 ER_{83}	16.5	X	337.01910	298.92294	172.83840	13.51661	0.1760685	0.21391181	2.7689357	21	—	—
542543 2013 ET_{85}	16.4	X	223.11165	218.50938	57.34851	8.97591	0.2740969	0.21484196	2.7609380	21	—	—
542544 2013 EN_{86}	16.3	X	128.21628	132.50345	117.64111	5.87761	0.1186747	0.18213118	3.0823351	21	11 11.8	21.2
542545 2013 EQ_{87}	16.4	X	176.47435	220.71567	313.74673	9.56723	0.0311325	0.18334484	3.0687176	21	9 24.7	21.0
542546 2013 EW_{87}	16.6	X	235.16779	40.86615	86.98295	12.52338	0.1092979	0.18398933	3.0615471	21	10 7.9	21.3
542547 2013 EM_{90}	17.2	X	19.61400	272.65482	320.38664	6.50468	0.0700926	0.26403208	2.4063839	21	5 22.2	19.9
542548 2013 EP_{90}	16.9	X	95.82169	141.35797	8.29845	10.36551	0.1408805	0.26371779	2.4082955	21	6 1.6	20.2
542549 2013 EP_{91}	17.6	X	49.23324	202.77644	2.29089	5.62329	0.0872814	0.26243602	2.4161307	21	6 2.8	20.4
542550 2013 EF_{92}	16.6	X	49.57510	92.45355	342.77788	3.78439	0.0801661	0.22508028	2.6765648	21	—	—
542551 2013 EZ_{92}	15.9	X	252.42664	151.15073	17.50425	11.69696	0.0925383	0.20134130	2.8830187	21	12 14.3	20.0
542552 2013 EH_{93}	18.0	X	137.81696	179.72555	323.64275	19.10951	0.0626566	0.39143361	1.8508191	21	7 15.2	20.1
542553 2013 ET_{96}	18.3	X	310.37570	295.33547	141.52682	3.17868	0.0539269	0.30837162	2.1698004	21	12 7.6	20.4
542554 2013 EK_{97}	17.0	X	290.25793	82.80295	146.24992	4.40038	0.0131182	0.23029967	2.6359703	21	1 19.3	20.5
542555 2013 ET_{100}	16.5	X	208.24022	101.49599	174.83653	24.48992	0.1455595	0.21406598	2.7676061	21	—	—
542556 2013 EA_{102}	16.9	X	349.95600	173.06648	113.20359	7.57107	0.1299103	0.26491816	2.4010151	21	6 19.4	19.1
542557 2013 EK_{102}	17.4	X	52.99738	55.69975	71.70617	4.45869	0.1439133	0.24086705	2.5582980	21	2 27.7	19.9
542558 2013 EG_{103}	18.1	X	139.40478	260.53419	158.27986	6.45022	0.2692089	0.26276593	2.4141079	21	4 10.4	21.9
542559 2013 EC_{104}	17.0	X	156.48009	341.66943	52.31458	10.29283	0.2231085	0.25566522	2.4586023	21	3 25.4	21.1
542560 2013 EL_{104}	17.7	X	48.47789	357.16642	153.94306	3.85673	0.0835289	0.24532617	2.5272030	21	3 18.1	20.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
542561 2013 EB_{105}	16.6	X	2.30169	354.87045	219.61391	14.27376	0.2704465	0.23820013	2.5773578	21	3 5.2	19.1
542562 2013 ES_{105}	16.6	X	242.40903	119.72064	128.44286	9.20489	0.1598667	0.21564684	2.7540637	21	—	—
542563 2013 EQ_{106}	16.7	X	359.53520	77.15962	84.03234	4.89336	0.1393564	0.23047258	2.6346517	21	1 8.3	19.5
542564 2013 EX_{109}	17.2	X	12.99186	140.99612	154.47676	6.68191	0.1737313	0.27214630	2.3583111	21	8 27.8	19.0
542565 2013 EM_{110}	16.7	X	32.73372	139.23655	355.89183	10.39445	0.0130760	0.23239162	2.6201274	21	2 4.4	20.3
542566 2013 EV_{110}	16.6	X	296.55626	168.99944	109.87867	8.31502	0.2041353	0.24205745	2.5499035	21	3 7.1	20.3
542567 2013 ED_{111}	16.7	X	167.50067	356.96411	25.70387	14.59736	0.0894000	0.24204851	2.5499663	21	3 14.2	20.5
542568 2013 ET_{111}	17.0	X	320.66013	354.78602	167.41680	14.88155	0.0573279	0.21604915	2.7506437	21	—	—
542569 2013 EG_{112}	17.0	X	206.31438	90.16192	198.18400	2.50418	0.0648368	0.22080946	2.7109673	21	—	—
542570 2013 EH_{113}	16.6	X	75.12754	349.27280	124.56258	15.01246	0.1547494	0.24314398	2.5423014	21	3 24.6	19.7
542571 2013 ER_{113}	17.8	X	156.09938	75.45460	66.21073	3.45254	0.1529190	0.27915312	2.3186813	21	8 3.2	21.4
542572 2013 EM_{114}	15.8	X	163.37521	71.42483	118.05197	20.47066	0.1761544	0.17363441	3.1820880	21	10 10.3	21.4
542573 2013 EW_{114}	17.7	X	68.93808	148.50830	59.60762	2.33965	0.0882161	0.26814471	2.3817155	21	7 11.1	20.4
542574 2013 EZ_{114}	17.4	X	339.18059	167.13590	118.81273	5.45910	0.1511268	0.25707210	2.4496239	21	5 26.8	19.7
542575 2013 EO_{119}	17.7	X	122.80443	268.67068	244.18995	3.85306	0.0908403	0.27113868	2.3641502	21	7 5.9	20.8
542576 2013 EJ_{124}	16.5	X	342.28270	154.61582	115.45829	6.77416	0.1243654	0.25630917	2.4544825	21	5 12.8	19.1
542577 2013 ET_{126}	17.6	X	127.06681	57.99656	94.30614	7.55242	0.0687246	0.27134201	2.3629690	21	7 8.5	20.6
542578 2013 EP_{128}	17.5	X	95.68880	131.55605	74.84197	7.43090	0.1249463	0.27651035	2.3334319	21	8 24.7	20.7
542579 2013 EL_{132}	15.7	X	340.21995	263.69117	51.45506	10.61926	0.0280553	0.15474270	3.4360747	21	7 21.4	20.6
542580 2013 EG_{136}	17.7	X	101.14341	207.04584	221.33889	1.33833	0.0782163	0.22660035	2.6645814	21	2 14.7	21.2
542581 2013 EF_{141}	16.3	X	56.80779	323.83270	309.50089	1.21579	0.1608368	0.17778016	3.1324238	21	9 25.9	20.5
542582 2013 EA_{154}	17.5	X	54.94576	138.15243	65.55982	3.13414	0.1525967	0.26222785	2.4174092	21	6 22.1	20.0
542583 2013 ED_{154}	16.6	X	56.68786	350.44157	342.15035	0.64130	0.0819458	0.19301991	2.9652955	21	11 29.3	20.7
542584 2013 ET_{156}	16.7	X	179.61628	11.65482	279.52061	8.39817	0.1678956	0.21561421	2.7543416	21	—	—
542585 2013 EO_{158}	17.2	X	263.42827	14.25833	213.89897	3.28422	0.1587485	0.21688434	2.7435776	21	—	—
542586 2013 FD_1	18.0	X	56.55705	179.19112	32.65016	2.95808	0.1323699	0.26309105	2.4121186	21	7 4.2	20.7
542587 2013 FR_1	16.8	X	271.52564	166.01831	51.56665	11.24648	0.1129586	0.22066565	2.7121449	21	—	—
542588 2013 FU_3	16.5	X	7.46494	10.76109	74.53704	9.02141	0.0588245	0.21087868	2.7954234	21	—	—
542589 2013 FN_4	15.7	X	116.27203	147.08157	132.48354	23.97935	0.1914234	0.18443148	3.0566521	21	12 11.7	21.1
542590 2013 FP_4	15.6	X	130.79967	113.38356	128.73575	8.66092	0.1726722	0.17740856	3.1367964	21	11 7.9	20.8
542591 2013 FR_8	17.1	X	317.44989	114.04837	128.46463	10.22040	0.1680747	0.23838433	2.5760300	21	2 17.6	20.3
542592 2013 FC_9	16.9	X	212.45147	52.80671	231.04063	6.86379	0.1288462	0.21786662	2.7353249	21	—	—
542593 2013 FE_9	18.2	X	233.42868	35.60743	323.29381	19.37575	0.0743368	0.37378957	1.9086132	21	3 24.7	20.9
542594 2013 FE_{12}	16.8	X	146.39905	285.95770	72.19934	7.06788	0.0530395	0.22541635	2.6739037	21	1 11.8	20.5
542595 2013 FC_{14}	15.9	X	181.70490	242.52534	127.27178	12.29941	0.2007372	0.24259872	2.5461093	21	3 16.4	20.2
542596 2013 FG_{14}	16.6	X	279.63443	199.72632	73.83603	14.70077	0.2213646	0.22912509	2.6449712	21	2 12.9	21.0
542597 2013 FN_{14}	16.5	X	247.33898	108.39149	135.31411	9.14869	0.1603588	0.21579531	2.7528003	21	—	—
542598 2013 FV_{15}	16.0	X	205.71953	352.81956	182.98439	23.78283	0.1595655	0.18455221	3.0553189	21	10 26.3	21.0
542599 2013 FD_{18}	16.6	X	66.00561	288.55591	191.64137	21.85338	0.0278594	0.23793771	2.5792525	21	2 22.3	20.3
542600 2013 FM_{19}	16.6	X	332.54612	121.69458	95.72202	12.32911	0.1423745	0.23751838	2.5822874	21	2 11.6	19.9
542601 2013 FE_{21}	17.6	X	304.99200	257.52832	16.64233	3.07395	0.0202448	0.24693481	2.5162155	21	4 4.1	20.9
542602 2013 FA_{22}	17.3	X	314.91047	57.19559	195.79677	15.57393	0.1872276	0.23714862	2.5849709	21	2 20.2	21.0
542603 2013 FB_{22}	16.7	X	276.46092	157.28745	71.14047	11.37272	0.1800118	0.21753633	2.7380929	21	—	—
542604 2013 FH_{24}	17.4	X	108.39216	184.06282	352.59201	5.09706	0.0260331	0.27072484	2.3665589	21	7 13.3	20.4
542605 2013 FS_{27}	16.9	X	203.08030	113.50791	201.24504	8.41301	0.2047226	0.21851469	2.7299140	21	1 24.7	21.7
542606 2013 FJ_{29}	17.1	X	262.78655	225.79057	75.21839	4.47237	0.1961627	0.23172647	2.6251389	21	3 1.6	21.3
542607 2013 GQ_1	16.0	X	261.03110	88.06161	349.03461	8.56886	0.0676717	0.17020755	3.2246569	21	9 3.9	20.4
542608 2013 GC_2	17.8	X	10.58202	346.18721	218.30994	4.81890	0.0558120	0.24622862	2.5210243	21	3 29.3	20.7
542609 2013 GK_3	18.2	X	265.79737	198.46851	175.91670	24.55773	0.1189205	0.38303868	1.8777638	21	6 10.3	21.0
542610 2013 GZ_4	17.9	X	106.87529	304.15868	171.25775	8.73096	0.1479193	0.25505108	2.4625474	21	5 5.9	21.3
542611 2013 GT_5	17.2	X	177.81644	166.23728	132.67195	4.27159	0.0726764	0.21242705	2.7818231	21	—	—
542612 2013 GO_6	16.9	X	190.57273	208.68945	57.52888	12.88911	0.2261385	0.19706399	2.9245869	21	—	—
542613 2013 GR_6	16.0	X	120.26056	143.12267	152.07892	10.51056	0.1073628	0.18945019	3.0024286	21	12 25.4	20.8
542614 2013 GV_6	17.2	X	134.07150	329.73568	128.82915	17.13462	0.1349402	0.25671702	2.4518823	21	5 17.9	21.1
542615 2013 GH_7	15.8	X	219.66596	8.31231	106.22837	20.30282	0.1261660	0.17313427	3.1882132	21	9 1.2	21.0
542616 2013 GM_7	16.9	X	358.64391	335.55573	199.76840	33.12054	0.1719465	0.23386538	2.6091082	21	1 13.8	20.8
542617 2013 GZ_{10}	18.2	X	128.22515	175.04071	6.47207	2.26470	0.1551939	0.27808083	2.3246381	21	8 27.7	21.6
542618 2013 GO_{18}	16.6	X	328.35498	186.55664	90.83560	8.04967	0.1128125	0.25558134	2.4591402	21	5 1.5	19.4
542619 2013 GB_{19}	16.1	X	305.57904	13.31632	65.24137	11.97584	0.0781560	0.18848575	3.0126617	21	11 7.1	20.0
542620 2013 GM_{21}	16.9	X	0.53867	44.03237	164.00154	16.99111	0.0759824	0.24265040	2.5457478	21	3 20.6	19.8
542621 2013 GZ_{22}	19.0	X	234.92855	176.69731	205.32004	21.64082	0.1023326	0.38287676	1.8782932	21	5 11.9	21.2
542622 2013 GJ_{27}	15.8	X	233.28739	298.38926	175.56739	26.24154	0.2457780	0.17869522	3.1217211	21	8 27.1	21.0
542623 2013 GQ_{27}	16.5	X	211.59139	206.21217	58.50904	9.20173	0.1245325	0.21162766	2.7888240	21	—	—
542624 2013 GM_{29}	17.6	X	116.79006	238.64747	326.66252	1.93166	0.1965625	0.28042572	2.3116610	21	9 18.5	21.2
542625 2013 GP_{32}	16.9	X	128.82759	195.81912	162.80799	4.55484	0.0843019	0.21455523	2.7633972	21	—	
542626 2013 GO_{33}	16.4	X	94.90560	54.13346	236.96288	4.19262	0.1423289	0.17697130	3.1419613	21	11 26.8	21.2
542627 2013 GK_{37}	17.8	X	137.74913	59.90192	32.20269	22.41675	0.3448974	0.26331096	2.4107754	21	5 18.9	22.2
542628 2013 GB_{41}	17.9	X	76.06183	84.04062	26.23523	9.28077	0.1193705	0.23885495	2.5726451	21	3 14.1	20.9
542629 2013 GE_{41}	16.6	X	69.52888	14.23675	26.52777	7.50596	0.1176660	0.21023345	2.8011401	21	—	—
542630 2013 GR_{41}	16.4	X	340.45612	186.12031	36.89517	5.29032	0.1026170	0.23873436	2.5735114	21	3 8.1	19.4
542631 2013 GB_{44}	16.4	X	165.82126	101.64722	122.32320	3.78480	0.0188103	0.18115651	3.0933811	21	11 17.3	20.8
542632 2013 GT_{44}	17.5	X	97.51546	298.67348	124.20841	3.10907	0.0400931	0.22586851	2.6703341	21	1 29.2	20.9
542633 2013 GJ_{46}	17.0	X	162.17579	350.01843	5.21139	5.26038	0.1172628	0.23150218	2.6268342	21	2 2.2	20.9
542634 2013 GD_{49}	18.0	X	142.92158	87.02756	29.26163	6.86235	0.0725914	0.26285285	2.4135757	21	6 7.6	21.3
542635 2013 GS_{49}	17.4	X	266.29225	268.60615	182.70065	7.12684	0.0737962	0.29476645	2.2360629	21	10 13.4	19.7
542636 2013 GL_{50}	15.8	X	83.70203	150.00654	141.73782	5.73343	0.1463248	0.17380715	3.1799793	21	11 17.9	20.6
542637 2013 GD_{51}	16.8	X	134.26822	306.34592	69.81551	2.96250	0.1008864	0.22360421	2.6883309	21	1 26.6	20.4
542638 2013 GO_{52}	16.6	X	84.67910	190.05640	188.21408	9.23397	0.1364192	0.20384166	2.8593946	21	—	—
542639 2013 GT_{52}	17.5	X	292.97477	114.62432	151.02235	3.12546	0.0669096	0.23461052	2.6035808	21	3 2.9	21.0
542640 2013 GJ_{53}	17.7	X	95.64992	109.71226	66.07991	6.95801	0.0535664	0.26197238	2.4189805	21	6 27.1	20.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
542641 2013 GL_{53}	17.5	X	66.90491	66.97033	110.55989	4.81719	0.1464098	0.25423917	2.4677874	21	6 3.1	20.3
542642 2013 GR_{55}	17.5	X	56.15128	170.70519	60.78074	6.87111	0.0982488	0.26866433	2.3786436	21	7 29.3	20.3
542643 2013 GL_{56}	16.7	X	70.71656	325.49195	93.74298	6.36177	0.1132654	0.22014602	2.7164111	21	—	—
542644 2013 GP_{57}	16.9	X	155.16310	222.40761	166.60316	9.06152	0.1016385	0.23551362	2.5969207	21	3 4.5	20.7
542645 2013 GT_{58}	17.3	X	162.22219	203.67106	193.30368	16.76492	0.1409507	0.24205413	2.5499268	21	3 23.8	21.3
542646 2013 GJ_{60}	16.9	X	145.64000	36.97584	19.79110	13.77118	0.1072550	0.24331858	2.5410850	21	3 30.9	20.5
542647 2013 GS_{60}	17.0	X	292.32931	105.99838	19.87599	2.47995	0.0555319	0.19432884	2.9519651	21	12 18.6	20.9
542648 2013 GX_{60}	17.9	X	132.63542	100.85608	38.39645	5.40281	0.1703679	0.26857183	2.3791897	21	7 7.5	21.5
542649 2013 GW_{62}	18.3	X	252.63531	52.69271	82.28934	3.15165	0.0946034	0.30480390	2.1866991	21	11 23.0	20.4
542650 2013 GA_{63}	17.5	X	252.00669	119.75892	164.57060	2.24403	0.1056832	0.22741305	2.6582295	21	2 3.9	21.6
542651 2013 GH_{64}	17.5	X	190.92615	67.21377	81.33116	7.47731	0.0904690	0.28899200	2.2657509	21	9 23.9	20.7
542652 2013 GL_{64}	16.3	X	77.31436	221.81989	99.85979	6.58869	0.1329949	0.18143399	3.0902263	21	12 14.6	20.8
542653 2013 GR_{64}	16.3	X	182.22178	127.92823	56.74854	10.39270	0.0483179	0.17619834	3.1511434	21	10 19.9	21.0
542654 2013 GX_{65}	17.6	X	51.06211	72.67398	31.13314	5.24623	0.0073444	0.22427579	2.6829615	21	1 18.8	21.2
542655 2013 GF_{68}	16.2	X	176.72837	116.15351	123.97805	13.60846	0.2390823	0.18615600	3.0377453	21	12 10.7	21.6
542656 2013 GV_{69}	16.9	X	25.68397	176.23594	0.94607	2.50676	0.0768666	0.24220158	2.5488918	21	3 16.8	19.9
542657 2013 GN_{70}	16.1	X	214.57501	311.68592	215.56090	26.59317	0.1643750	0.17980778	3.1088307	21	10 20.7	21.1
542658 2013 GJ_{71}	17.9	X	51.29191	338.10902	182.56066	3.38715	0.0805433	0.24371203	2.5383494	21	4 4.8	20.8
542659 2013 GF_{78}	18.1	X	8.96749	194.17484	79.74005	27.68923	0.0752294	0.38815565	1.8612245	21	7 5.0	19.5
542660 2013 GV_{78}	16.7	X	132.94895	99.09960	217.52990	3.70703	0.1089207	0.19311783	2.9642931	21	—	—
542661 2013 GA_{79}	16.2	X	87.09145	282.60821	41.68332	14.81974	0.1077052	0.17925861	3.1151768	21	12 23.4	21.0
542662 2013 GZ_{81}	16.1	X	238.19921	149.51527	121.01442	14.17308	0.0932761	0.21816621	2.7328202	21	1 6.9	20.2
542663 2013 GK_{82}	16.8	X	35.12559	266.44061	261.94103	3.01416	0.1867362	0.24266996	2.5456110	21	3 22.1	19.0
542664 2013 GJ_{83}	16.4	X	233.72058	257.11029	61.19470	9.26914	0.2074131	0.22150949	2.7052526	21	2 28.2	21.1
542665 2013 GT_{84}	15.1	X	129.46237	211.86992	69.19534	17.45370	0.1613367	0.18172739	3.0868993	21	12 17.1	20.2
542666 2013 GY_{84}	16.0	X	198.19172	26.25809	152.82135	9.85986	0.0377077	0.17463081	3.1699723	21	10 31.5	20.7
542667 2013 GC_{85}	15.8	X	287.76355	193.97287	76.99261	13.86226	0.1216226	0.23154260	2.6265285	21	3 2.9	19.8
542668 2013 GE_{85}	15.8	X	198.27463	113.15564	59.75095	22.66199	0.0611240	0.17308083	3.1888695	21	10 26.8	20.7
542669 2013 GJ_{85}	16.8	X	300.83158	39.51999	251.51373	10.25205	0.2060735	0.23903155	2.5713778	21	3 19.6	20.5
542670 2013 GV_{85}	16.4	X	32.48333	83.78521	48.92768	14.42008	0.0432131	0.22392917	2.6857295	21	2 4.6	20.1
542671 2013 GD_{86}	16.2	X	139.05016	166.53771	78.59499	17.25506	0.1343394	0.17567880	3.1573530	21	11 17.3	21.3
542672 2013 GZ_{86}	16.4	X	236.80775	31.20510	110.54305	10.51706	0.0409808	0.17700680	3.1415412	21	11 1.4	21.0
542673 2013 GC_{89}	17.6	X	19.74533	52.05318	171.10479	5.53564	0.0906924	0.25487293	2.4636948	21	5 12.5	20.2
542674 2013 GA_{90}	16.6	X	236.15258	180.35277	103.28532	6.95964	0.0332863	0.21673907	2.7448034	21	1 23.8	20.5
542675 2013 GN_{92}	18.1	X	93.79515	2.44033	197.08885	3.15145	0.3008625	0.26893769	2.3770315	21	8 28.7	21.8
542676 2013 GP_{95}	15.4	X	112.27689	239.31690	48.57761	12.19482	0.0952662	0.17931752	3.1144945	21	12 5.2	20.2
542677 2013 GQ_{98}	17.7	X	124.75643	120.98831	121.99587	3.42606	0.1316207	0.29097026	2.2554696	21	11 13.1	20.9
542678 2013 GY_{99}	15.0	X	37.90554	99.18530	75.03905	15.04103	0.1577841	0.12319661	4.0000940	21	4 29.3	20.1
542679 2013 GM_{100}	17.2	X	38.72871	22.98508	228.09924	12.46598	0.1641423	0.26086638	2.4258130	21	8 1.2	20.1
542680 2013 GG_{101}	16.5	X	3.12318	108.21306	50.73746	13.62963	0.1243766	0.22537073	2.6742646	21	1 16.5	19.8
542681 2013 GU_{103}	16.0	X	182.56600	169.26385	33.32720	10.04872	0.0623611	0.18228558	3.0805943	21	11 6.7	20.6
542682 2013 GG_{105}	16.7	X	338.30572	196.79961	119.97937	7.77719	0.1244354	0.26444451	2.4038812	21	7 14.6	19.1
542683 2013 GL_{105}	16.6	X	324.76475	356.65833	259.84973	5.62066	0.1709952	0.24079891	2.5587805	21	3 13.2	19.8
542684 2013 GF_{107}	15.8	X	190.79777	138.91666	77.07822	14.12486	0.1883681	0.18217843	3.0818020	21	11 25.6	20.9
542685 2013 GE_{108}	16.4	X	253.17723	210.69960	75.62156	14.81043	0.2447494	0.22215767	2.6999881	21	2 3.3	21.2
542686 2013 GS_{108}	17.6	X	28.14641	304.12931	241.76807	3.02686	0.1687893	0.24301537	2.5431983	21	4 2.6	19.9
542687 2013 GC_{109}	16.5	X	41.11408	218.98860	317.27296	4.84043	0.0488003	0.24336992	2.5407277	21	4 5.2	19.7
542688 2013 GH_{110}	15.5	X	202.58780	177.69420	33.75494	10.03733	0.0754608	0.18769298	3.0211389	21	12 7.9	20.1
542689 2013 GL_{110}	16.8	X	321.23360	187.58894	31.06912	4.69773	0.2132033	0.22729077	2.6591828	21	1 18.4	20.3
542690 2013 GO_{111}	16.3	X	277.03762	25.35482	158.90669	10.05432	0.0643913	0.20227307	2.8741583	21	—	—
542691 2013 GS_{111}	15.6	X	133.34695	98.21979	138.32113	13.33364	0.0886676	0.17462427	3.1700515	21	11 1.4	20.7
542692 2013 GH_{113}	15.7	X	158.78464	193.57869	41.06787	9.72576	0.0596675	0.17833818	3.1258862	21	11 19.1	20.4
542693 2013 GR_{113}	17.8	X	132.90739	95.32819	131.05433	3.07784	0.2076233	0.28607833	2.2811092	21	11 1.2	21.6
542694 2013 GQ_{114}	17.7	X	35.88710	107.85218	36.78466	4.93414	0.1627897	0.24359137	2.5391876	21	2 19.1	20.0
542695 2013 GB_{115}	16.9	X	199.64534	266.09871	45.87231	14.17155	0.1209916	0.21239652	2.7820897	21	1 23.0	21.5
542696 2013 GE_{117}	16.9	X	292.82409	50.39624	133.82549	5.38200	0.0339795	0.21455096	2.7634338	21	—	—
542697 2013 GH_{121}	16.8	X	168.01546	206.24611	196.34810	13.39249	0.1584921	0.24323667	2.5416555	21	4 7.7	20.6
542698 2013 GJ_{121}	17.2	X	190.02402	231.31573	73.35565	5.40543	0.0543448	0.21415792	2.7668140	21	—	—
542699 2013 GE_{122}	17.5	X	337.86345	139.83877	63.73422	4.46362	0.1408167	0.23335909	2.6128806	21	1 31.5	20.7
542700 2013 GP_{122}	16.4	X	100.90313	42.70629	24.92202	22.14496	0.1032197	0.22984911	2.6394139	21	3 1.6	20.2
542701 2013 GY_{127}	17.6	X	31.09733	136.63449	121.45113	7.48355	0.0769278	0.26189115	2.4194807	21	7 22.0	20.2
542702 2013 GX_{130}	15.4	X	154.97766	23.98963	195.78056	26.94217	0.0845158	0.18006704	3.1058459	21	10 31.2	20.3
542703 2013 GP_{131}	17.0	X	72.06246	57.56573	74.67928	12.97336	0.0596241	0.24715164	2.5147436	21	4 1.9	20.3
542704 2013 GP_{132}	16.9	X	266.10948	302.78224	356.50143	3.76905	0.1703365	0.23899102	2.5716685	21	3 2.3	20.8
542705 2013 GS_{132}	17.5	X	344.97575	194.47799	115.02790	3.71533	0.1684455	0.26692914	2.3889408	21	7 14.1	19.5
542706 2013 GZ_{133}	16.5	X	160.51785	15.72689	207.25132	16.11816	0.1431074	0.18127326	3.0920527	21	11 8.9	21.6
542707 2013 GE_{134}	16.9	X	198.34218	115.58615	199.65281	4.21269	0.1093233	0.21934724	2.7230018	21	1 19.9	21.1
542708 2013 GY_{134}	16.7	X	96.76284	227.80908	218.63111	21.41677	0.0500026	0.23031181	2.6358776	21	2 20.7	20.7
542709 2013 GJ_{136}	16.1	X	99.49473	210.83479	81.57877	13.78814	0.0622610	0.18624646	3.0367616	21	11 28.1	20.6
542710 2013 GK_{139}	16.8	X	235.51470	169.45185	127.65949	10.13255	0.1877886	0.21549593	2.7553494	21	2 2.0	21.4
542711 2013 GC_{140}	17.1	X	140.16318	2.59316	58.30933	14.78169	0.0178856	0.23341995	2.6124264	21	3 26.6	20.9
542712 2013 GH_{140}	17.3	X	265.14971	115.81942	135.13146	9.57503	0.0463099	0.21861199	2.7291039	21	1 14.8	21.3
542713 2013 GK_{141}	16.5	X	121.73125	185.56245	229.52878	14.02178	0.0704766	0.22138214	2.7062899	21	2 18.7	20.5
542714 2013 GO_{141}	17.8	X	283.70799	110.85138	172.97643	4.42445	0.0295497	0.23953208	2.5677945	21	3 19.3	21.0
542715 2013 GR_{141}	17.8	X	5.99973	32.32262	193.89618	10.40542	0.1153857	0.25158317	2.4851255	21	4 20.9	20.2
542716 2013 GX_{141}	16.3	X	226.67929	299.92398	210.85168	8.33641	0.2432344	0.17845248	3.1245513	21	10 4.9	21.3
542717 2013 HJ_{1}	16.5	X	263.14424	173.62447	116.51957	14.97582	0.1137221	0.22527637	2.6750113	21	2 25.9	20.6
542718 2013 HK_{1}	16.9	X	309.26955	104.93176	137.17741	14.22017	0.0739618	0.22767725	2.6561726	21	2 22.5	20.4
542719 2013 HS_{2}	16.0	X	180.24870	38.60661	138.69691	11.64103	0.0214807	0.17047297	3.2213088	21	10 10.2	20.8
542720 2013 HA_{3}	15.9	X	128.04554	82.68734	170.74443	10.36084	0.0476641	0.17559657	3.1583386	21	11 11.2	20.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
542721 2013 HR_3	16.4	X	301.91308	282.55366	167.88792	10.53855	0.0383871	0.17869413	3.1217338	21	11 18.7	20.8
542722 2013 HO_4	16.1	X	155.63717	56.36203	152.03187	16.07674	0.0661374	0.17053924	3.2204743	21	10 20.3	21.2
542723 2013 HS_4	16.0	X	47.11110	236.65462	96.88765	10.45940	0.0596283	0.18211880	3.0824747	21	11 16.6	20.3
542724 2013 HH_6	17.1	X	34.87437	93.32107	72.85693	22.58594	0.0880678	0.23578726	2.5949111	21	4 2.2	20.7
542725 2013 HN_8	16.6	X	281.99836	47.91415	227.45066	26.68470	0.1124472	0.23374524	2.6100021	21	2 13.7	21.1
542726 2013 HR_9	15.3	X	123.16277	203.56871	65.63320	17.91785	0.1830477	0.17844656	3.1246204	21	11 29.7	20.5
542727 2013 HJ_{12}	16.3	X	164.76115	252.78321	104.59819	15.85010	0.1846620	0.21440579	2.7646811	21	2 16.7	20.9
542728 2013 HT_{12}	16.8	X	39.42125	26.96009	102.34176	8.34873	0.1406844	0.23199391	2.6231210	21	2 5.8	19.4
542729 2013 HD_{15}	18.2	X	183.02897	59.57441	39.45838	20.19065	0.1052141	0.38583550	1.8686785	21	7 2.6	20.9
542730 2013 HO_{15}	16.3	X	240.91383	218.11160	88.91807	10.29559	0.1295796	0.22458591	2.6804911	21	2 23.6	20.6
542731 2013 HM_{19}	16.1	X	132.59976	263.91497	92.39548	8.33800	0.0879193	0.21254345	2.7808073	21	—	—
542732 2013 HU_{20}	16.4	X	309.24974	26.35098	212.86346	12.36234	0.1382125	0.24103915	2.5570801	21	2 1.4	20.2
542733 2013 HW_{20}	16.6	X	267.90066	143.98069	139.00471	15.61490	0.1524827	0.22409632	2.6843938	21	2 15.8	20.6
542734 2013 HD_{21}	18.9	X	117.62345	349.61074	178.98180	20.91798	0.0184354	0.38983860	1.8558640	21	7 11.4	21.3
542735 2013 HJ_{22}	17.2	X	275.90204	245.73287	17.07597	5.18879	0.1277058	0.22543925	2.6737227	21	2 2.9	21.2
542736 2013 HM_{24}	17.1	X	317.33517	296.18019	223.79561	7.00406	0.1646189	0.21242236	2.7818640	21	—	—
542737 2013 HO_{24}	17.0	X	1.71399	299.02559	233.11093	2.38825	0.0600807	0.22783672	2.6549330	21	2 3.6	20.4
542738 2013 HL_{26}	18.5	X	348.37021	62.84485	217.26950	20.86169	0.0454253	0.37746638	1.8961988	21	6 5.6	20.3
542739 2013 HW_{26}	16.0	X	154.81664	196.56479	227.17555	16.25059	0.1504125	0.24608766	2.5219869	21	4 19.1	19.9
542740 2013 HR_{28}	17.5	X	51.60731	8.34282	148.30021	15.38714	0.0552017	0.24242398	2.5473327	21	4 1.6	20.7
542741 2013 HT_{28}	16.5	X	206.38360	231.47170	108.83283	15.66857	0.0964891	0.23183098	2.6243498	21	3 2.9	20.7
542742 2013 HB_{29}	15.7	X	138.85155	128.85851	156.35883	16.82457	0.2003245	0.17798803	3.1299845	21	12 30.8	21.3
542743 2013 HD_{29}	15.7	X	2.98744	111.76471	246.53532	10.22208	0.0032066	0.17281477	3.1921416	21	10 8.5	20.4
542744 2013 HY_{30}	18.0	X	140.37223	237.69421	252.95880	5.36898	0.1026042	0.26568041	2.3964205	21	6 27.8	21.3
542745 2013 HB_{31}	17.3	X	10.91008	215.46614	346.93613	9.14051	0.0578779	0.24284179	2.5444100	21	3 26.3	20.4
542746 2013 HE_{35}	15.8	X	79.92522	0.56270	305.00598	3.68898	0.1686576	0.17343573	3.1845177	21	11 30.4	20.7
542747 2013 HL_{35}	17.5	X	329.65500	227.27521	337.55916	4.30954	0.0488706	0.22933200	2.6433801	21	2 4.2	21.0
542748 2013 HL_{40}	17.2	X	222.55357	56.36358	359.46023	8.41550	0.0766509	0.26493925	2.4008877	21	6 20.9	20.7
542749 2013 HO_{43}	17.4	X	237.38415	93.88177	224.58851	13.54637	0.0515756	0.23431474	2.6057714	21	2 27.9	21.4
542750 2013 HQ_{46}	16.4	X	70.73294	121.15241	216.44935	26.15081	0.1888818	0.18028327	3.1033620	21	12 27.9	21.6
542751 2013 HL_{47}	17.5	X	37.09276	241.70214	303.07212	2.90697	0.0687001	0.24522622	2.5278897	21	4 12.7	20.5
542752 2013 HM_{47}	17.2	X	138.79755	25.71692	18.76728	18.80121	0.1183904	0.23217404	2.6217641	21	3 15.0	21.1
542753 2013 HY_{47}	17.0	X	89.62654	356.49814	7.81471	6.43658	0.0767735	0.19995351	2.8963432	21	—	—
542754 2013 HK_{51}	16.7	X	60.95251	35.05649	350.32892	5.86906	0.0746232	0.19804274	2.9149432	21	—	—
542755 2013 HL_{53}	17.1	X	93.22524	164.21949	250.01389	4.83028	0.0314341	0.22218531	2.6997641	21	1 11.4	20.7
542756 2013 HR_{53}	18.5	X	93.79311	6.77575	209.89640	21.13070	0.0646308	0.39486721	1.8400742	21	8 26.3	20.8
542757 2013 HN_{54}	17.6	X	76.13543	148.92252	296.02588	2.34910	0.0082997	0.22616557	2.6679952	21	1 25.3	21.2
542758 2013 HF_{56}	17.2	X	231.43325	330.22933	13.72473	13.43319	0.1327060	0.24022252	2.5628720	21	3 27.1	21.0
542759 2013 HL_{61}	17.0	X	134.04701	1.09901	16.29947	15.15177	0.1209215	0.22139514	2.7061840	21	2 5.5	21.1
542760 2013 HE_{70}	16.5	X	176.52053	226.53246	16.00703	9.77241	0.0397453	0.18980585	2.9986768	21	12 20.6	21.1
542761 2013 HP_{76}	17.7	X	37.27945	312.18851	220.17074	8.46290	0.0302036	0.24106992	2.5568625	21	3 24.7	21.0
542762 2013 HU_{77}	17.4	X	106.77561	15.18496	9.65677	5.70598	0.0324124	0.21417358	2.7666791	21	—	—
542763 2013 HT_{81}	16.9	X	101.59252	169.85702	225.41222	4.73570	0.0616470	0.21601999	2.7508913	21	1 3.9	20.6
542764 2013 HU_{94}	18.1	X	99.75316	89.26578	25.15536	3.05334	0.0903050	0.24689142	2.5165103	21	4 14.4	21.3
542765 2013 HA_{98}	17.8	X	42.37125	177.54770	359.50958	2.26530	0.0410621	0.24545042	2.5263501	21	4 9.6	20.8
542766 2013 HJ_{117}	18.2	X	204.24293	269.97577	198.03004	4.85698	0.1129964	0.27886746	2.3202645	21	8 6.2	21.5
542767 2013 HP_{117}	17.1	X	49.70760	61.76455	50.96208	2.90029	0.0364400	0.22607591	2.6687006	21	1 28.7	20.4
542768 2013 HN_{122}	16.5	X	321.42584	224.80781	197.63832	4.71189	0.1185679	0.18187262	3.0852557	21	11 4.9	20.1
542769 2013 HZ_{131}	17.1	X	186.88293	13.53235	329.19830	4.51893	0.2016361	0.22194303	2.7017285	21	2 15.1	21.4
542770 2013 HF_{132}	17.2	X	358.86210	188.45267	15.70144	15.31298	0.0612831	0.23861763	2.5743507	21	3 17.3	20.3
542771 2013 HD_{140}	16.5	X	94.16149	123.97023	204.41281	10.75284	0.1187858	0.18821773	3.0155210	21	—	—
542772 2013 HZ_{144}	16.9	X	194.39783	80.47786	309.31204	2.12938	0.1310625	0.24691388	2.5163577	21	4 14.6	20.9
542773 2013 HD_{147}	17.2	X	142.35414	289.19585	34.58694	2.52060	0.0605134	0.20487567	2.8497655	21	—	—
542774 2013 HP_{147}	18.0	X	166.82486	2.18446	17.00287	1.57831	0.1828371	0.23194830	2.6234649	21	3 11.6	22.1
542775 2013 HL_{148}	16.1	X	301.54437	53.33842	329.33441	7.43359	0.1329679	0.15907930	3.3733412	21	8 9.9	20.5
542776 2013 HW_{149}	17.2	X	183.27387	347.61863	19.43358	13.77603	0.0727543	0.23439032	2.6052112	21	3 10.9	21.1
542777 2013 HY_{157}	17.4	X	233.99814	248.14378	119.39828	13.37259	0.0633442	0.24227448	2.5483805	21	5 8.0	21.3
542778 2013 JV_1	18.2	X	307.46720	130.82276	194.54569	22.17756	0.0318374	0.38009957	1.8874312	21	6 11.5	20.5
542779 2013 JZ_1	15.4	X	262.85438	290.42792	140.27619	13.25886	0.0434635	0.16973590	3.2306277	21	9 2.5	20.0
542780 2013 JZ_2	17.7	X	296.23338	215.74528	87.96235	23.86320	0.0844161	0.36799977	1.9285801	21	4 24.3	20.3
542781 2013 JN_3	17.1	X	339.98017	346.32180	250.89765	10.11267	0.0837720	0.24125069	2.5555851	21	3 21.3	20.4
542782 2013 JS_4	16.2	X	336.62773	254.34946	225.15593	14.03614	0.1082936	0.20270385	2.8700847	21	—	—
542783 2013 JX_5	18.5	X	221.07986	17.85777	33.13968	22.31909	0.0766207	0.37956059	1.8892175	21	6 1.9	21.0
542784 2013 JJ_6	17.4	X	44.82389	21.81790	164.61686	14.24606	0.0860449	0.24501015	2.5293757	21	5 5.3	20.5
542785 2013 JU_6	17.7	X	66.66499	108.97195	88.30212	23.29177	0.0593054	0.37813637	1.8939583	21	6 13.6	19.2
542786 2013 JK_8	16.7	X	130.02009	88.40617	340.62031	7.36185	0.1414018	0.24118909	2.5560202	21	3 29.1	20.3
542787 2013 JQ_{11}	17.3	X	181.20682	252.00589	105.48186	1.98081	0.0568895	0.22494291	2.6776543	21	2 20.7	21.1
542788 2013 JD_{13}	18.4	X	302.22937	85.80609	222.95286	20.42708	0.0863313	0.36514690	1.9386123	21	4 24.9	20.3
542789 2013 JC_{15}	13.7	X	329.87022	152.02537	269.72804	9.19325	0.0914077	0.08045926	5.3139650	21	10 27.9	20.4
542790 2013 JB_{18}	18.9	X	235.58605	357.71230	56.82378	21.03325	0.0915423	0.38623558	1.8673879	21	7 2.2	21.2
542791 2013 JL_{19}	17.9	X	17.82469	272.80346	65.88745	4.93453	0.1532774	0.27723201	2.3293807	21	11 10.9	20.3
542792 2013 JQ_{20}	16.9	X	229.96573	205.93483	114.63786	7.33527	0.1040554	0.22259917	2.6964168	21	3 1.0	21.0
542793 2013 JY_{20}	17.3	X	20.20540	302.67688	256.29576	14.16796	0.0831327	0.23909261	2.5709400	21	4 1.4	20.6
542794 2013 JG_{24}	16.1	X	176.55461	285.24843	41.61696	6.85553	0.0538307	0.21371276	2.7706548	21	1 11.0	20.2
542795 2013 JQ_{27}	15.3	X	132.59344	151.59067	159.40629	17.36005	0.1263133	0.18472064	3.0534614	21	—	—
542796 2013 JL_{31}	16.6	X	77.80585	257.54030	172.35625	21.99146	0.0501854	0.22548139	2.6733896	21	1 11.2	20.5
542797 2013 JQ_{31}	16.3	X	264.73346	221.73919	93.58515	16.27219	0.1190989	0.23608835	2.5927044	21	4 4.1	20.4
542798 2013 JX_{31}	16.9	X	280.84763	144.69915	121.60044	14.80232	0.1399439	0.22186255	2.7023819	21	2 11.2	20.9
542799 2013 JX_{34}	18.1	X	148.32647	240.21639	230.45810	20.97306	0.0984413	0.37074507	1.9190478	21	6 5.2	20.4
542800 2013 JJ_{37}	15.6	X	139.69553	63.44917	238.88426	11.17804	0.1052193	0.18569812	3.0427367	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
542801 2013 JA_{38}	18.1	X	351.55165	49.31928	195.06502	21.73546	0.0526524	0.36209680	1.9494836	21	4 12.0	19.5
542802 2013 JH_{38}	16.5	X	142.15439	179.93278	132.62019	11.74409	0.0984324	0.19034356	2.9930267	21	—	—
542803 2013 JY_{38}	15.8	X	109.57652	188.99324	113.62580	11.63975	0.0776455	0.17542758	3.1603667	21	12 19.6	20.6
542804 2013 JC_{40}	16.4	X	105.79513	192.71775	136.58661	8.75369	0.1190097	0.17950919	3.1122771	21	—	—
542805 2013 JD_{40}	16.4	X	229.55896	45.11369	151.88021	10.80623	0.0748458	0.18393875	3.0621084	21	12 21.9	21.0
542806 2013 JU_{43}	17.0	X	164.41851	171.23089	136.35479	8.67056	0.1811614	0.19251102	2.9705189	21	—	—
542807 2013 JJ_{44}	16.9	X	258.92888	202.09757	122.80617	13.00941	0.1912462	0.23052616	2.6342434	21	3 30.9	21.2
542808 2013 JK_{44}	16.4	X	318.85986	285.10800	17.86037	12.12994	0.2372189	0.24432637	2.5340926	21	4 27.1	19.2
542809 2013 JO_{44}	17.1	X	32.38260	80.39040	58.77155	11.72979	0.1171854	0.22627163	2.6671615	21	2 11.8	20.3
542810 2013 JN_{45}	17.2	X	3.65458	347.50492	229.22156	7.31163	0.0931882	0.23860839	2.5744171	21	4 2.5	20.2
542811 2013 JC_{48}	16.0	X	200.40733	254.92857	97.13477	15.60013	0.1362614	0.22298354	2.6933172	21	3 15.1	20.6
542812 2013 JU_{48}	17.8	X	197.99255	9.49564	237.31756	5.70146	0.1015922	0.31032065	2.1607056	21	—	—
542813 2013 JY_{48}	16.2	X	191.23334	49.92553	230.61457	12.42699	0.1418925	0.19773393	2.9179774	21	—	—
542814 2013 JJ_{49}	17.9	X	30.44270	80.42936	158.16991	3.95402	0.0958362	0.25898968	2.4375175	21	6 23.1	20.5
542815 2013 JX_{49}	16.5	X	186.66588	106.47100	64.98138	5.88659	0.0755561	0.16909096	3.2388372	21	10 6.4	21.4
542816 2013 JD_{53}	17.0	X	147.69078	134.91498	218.15325	3.59035	0.0850441	0.21266057	2.7797862	21	1 12.3	21.0
542817 2013 JK_{53}	16.1	X	232.98867	276.57356	226.07161	16.27831	0.0747776	0.17473415	3.1687224	21	10 18.2	20.8
542818 2013 JQ_{56}	17.2	X	109.42722	8.96822	175.35387	4.80155	0.0681360	0.26395426	2.4068569	21	7 29.3	20.4
542819 2013 JT_{56}	17.3	X	18.45169	60.75624	109.98352	6.39159	0.0394137	0.22832948	2.6511119	21	3 2.4	20.6
542820 2013 JF_{57}	17.3	X	93.12827	298.25307	128.09676	3.77240	0.0406352	0.21760876	2.7374853	21	1 29.5	20.8
542821 2013 JG_{57}	16.7	X	142.31096	284.75272	88.53330	7.23010	0.0505057	0.21467669	2.7623547	21	1 28.1	20.5
542822 2013 JQ_{60}	17.2	X	2.44653	131.72253	48.10461	9.52986	0.1252901	0.22852482	2.6496009	21	2 14.1	20.4
542823 2013 JR_{61}	17.5	X	273.84981	159.48935	147.99861	2.86093	0.1917313	0.22993977	2.6387201	21	3 19.3	21.4
542824 2013 JF_{63}	15.7	X	183.72844	41.82229	146.18152	21.38180	0.0897361	0.17414860	3.1758212	21	10 26.6	20.9
542825 2013 JH_{63}	15.9	X	119.47839	334.77764	96.89390	22.80148	0.0351041	0.23008572	2.6376041	21	3 19.9	20.0
542826 2013 JL_{63}	15.5	X	130.93130	183.48314	101.97985	19.30009	0.1901812	0.17972188	3.1098211	21	12 25.3	20.7
542827 2013 JM_{66}	17.0	X	175.00927	276.52318	81.93909	6.91684	0.0514067	0.21988625	2.7185501	21	2 17.3	20.9
542828 2013 JU_{67}	17.1	X	236.89717	187.47610	157.79529	9.76060	0.2318583	0.22481103	2.6787014	21	3 30.8	21.6
542829 2013 KS	16.9	X	301.08328	24.27719	242.25665	1.91523	0.1444831	0.23168992	2.6254150	21	3 2.2	20.5
542830 2013 KH_{1}	15.4	X	79.50308	137.66448	254.01330	22.57832	0.0239913	0.17317292	3.1877388	21	—	—
542831 2013 KL_{1}	18.3	X	203.74516	228.28948	231.78550	20.71633	0.1120421	0.39106768	1.8519735	21	7 22.1	21.1
542832 2013 KQ_{4}	17.1	X	104.64208	45.20767	51.14405	22.58594	0.1200814	0.23575386	2.5951562	21	4 12.5	20.8
542833 2013 KH_{7}	17.0	X	322.64598	30.46803	274.57945	3.33580	0.2633135	0.24245978	2.5470819	21	5 3.8	19.8
542834 2013 KQ_{7}	16.5	X	292.13758	282.14679	50.27716	4.29072	0.2343472	0.23998216	2.5645829	21	5 3.7	20.0
542835 2013 KR_{7}	18.0	X	322.91574	74.43610	244.17464	19.86188	0.0984884	0.37322582	1.9105347	21	6 16.3	19.4
542836 2013 KV_{7}	17.2	X	300.58745	13.54371	238.52883	12.27606	0.1332992	0.22363080	2.6881179	21	2 9.7	21.3
542837 2013 KD_{8}	17.1	X	284.32074	264.70370	63.72394	5.80853	0.2126025	0.23838384	2.5760335	21	4 23.6	20.8
542838 2013 KL_{9}	16.1	X	173.30462	186.06672	60.59915	10.43296	0.0626581	0.18044187	3.1015433	21	12 18.9	20.8
542839 2013 KH_{10}	16.5	X	153.81716	211.04818	71.22908	6.34761	0.1726158	0.18257330	3.0773570	21	—	—
542840 2013 KP_{10}	15.3	X	352.27538	321.73960	94.42238	26.33068	0.1075437	0.17753087	3.1353556	21	12 16.2	19.2
542841 2013 KV_{10}	15.8	X	121.70549	64.17995	240.55850	8.52267	0.0602064	0.18041282	3.1018761	21	—	—
542842 2013 KW_{10}	16.2	X	176.62587	135.78778	114.56817	12.60007	0.0975087	0.18504697	3.0498704	21	12 26.6	20.9
542843 2013 KU_{12}	16.7	X	246.10385	177.52470	88.56458	9.33822	0.1775425	0.20908451	2.8113924	21	1 7.2	21.2
542844 2013 KS_{13}	16.3	X	178.77170	206.17590	74.33131	10.37605	0.1152718	0.19107640	2.9853690	21	—	—
542845 2013 KF_{16}	17.9	X	58.45911	64.73012	238.50551	4.68116	0.1753202	0.27918701	2.3184936	21	11 22.3	20.7
542846 2013 KT_{16}	16.4	X	164.93155	103.36199	157.28069	5.62486	0.1508350	0.18136152	3.0910494	21	12 24.7	21.4
542847 2013 KE_{17}	16.3	X	137.06033	155.67511	160.86319	16.58973	0.1509186	0.18346911	3.0673317	21	—	—
542848 2013 KN_{18}	16.2	X	207.06210	12.44770	247.00670	11.29580	0.1029924	0.19547251	2.9404396	21	—	—
542849 2013 LM_{1}	15.6	X	158.88645	51.35508	256.08170	23.73601	0.1330167	0.17739175	3.1369946	21	—	—
542850 2013 LJ_{3}	17.2	X	297.03714	106.12624	153.67024	13.60054	0.0843673	0.22560414	2.6724197	21	2 27.5	20.7
542851 2013 LO_{4}	17.8	X	179.29383	10.06892	224.13893	5.37251	0.1291130	0.30246029	2.1979803	21	12 27.5	20.8
542852 2013 LQ_{4}	17.4	X	138.48494	262.93315	221.62762	4.07890	0.1003571	0.25582277	2.4575927	21	6 17.4	20.8
542853 2013 LV_{4}	16.9	X	318.58100	187.14923	99.49663	6.32252	0.1933259	0.23964964	2.5669547	21	4 17.7	19.9
542854 2013 LJ_{7}	17.9	X	274.10228	122.92834	222.61792	20.75004	0.0930309	0.36326421	1.9453047	21	5 10.6	19.7
542855 2013 LO_{8}	16.8	X	286.10929	168.79421	166.90843	13.67140	0.1988914	0.23826528	2.5768880	21	5 9.2	20.6
542856 2013 LM_{10}	16.8	X	328.84970	10.41938	245.24617	13.43319	0.1279031	0.23480892	2.6021140	21	3 23.5	20.3
542857 2013 LP_{14}	16.6	X	335.83082	323.27915	182.38475	9.07428	0.0430752	0.20124891	2.8839010	21	—	—
542858 2013 LZ_{14}	16.6	X	295.35516	151.77697	106.28708	14.69823	0.2159298	0.22553554	2.6729616	21	2 7.7	20.6
542859 2013 LE_{15}	16.9	X	249.59618	158.13526	203.27186	13.11431	0.1910097	0.23572345	2.5953794	21	5 1.7	21.0
542860 2013 LK_{16}	17.1	X	100.00535	336.31423	166.38899	8.59736	0.0944004	0.24613551	2.5216600	21	5 26.4	20.5
542861 2013 LU_{16}	16.1	X	218.92904	117.94808	102.82246	8.36669	0.0568541	0.18817182	3.0160115	21	—	—
542862 2013 LD_{18}	16.4	X	130.15646	222.84488	94.52727	11.90884	0.0401209	0.19095421	2.9866424	21	—	—
542863 2013 LR_{19}	17.4	X	78.81273	318.73941	303.16940	1.74643	0.1660486	0.27322554	2.3520968	21	10 19.4	20.7
542864 2013 LP_{20}	16.1	X	4.74289	339.65978	262.66162	11.91025	0.1270850	0.24453211	2.5326710	21	5 10.3	18.8
542865 2013 LU_{20}	16.8	X	226.86717	234.75244	51.62300	5.14928	0.0704279	0.21062497	2.7976678	21	1 17.3	21.0
542866 2013 LY_{22}	17.4	X	115.77700	44.20114	192.89259	6.14784	0.1660561	0.28027463	2.3124917	21	10 27.8	20.9
542867 2013 LK_{24}	16.9	X	342.41460	129.67053	119.15743	6.33422	0.0230251	0.23699034	2.5861216	21	4 25.6	20.3
542868 2013 LY_{25}	16.5	X	249.20821	249.02312	116.07863	15.25013	0.1979620	0.23979914	2.5658876	21	5 10.2	20.8
542869 2013 LR_{28}	17.5	X	252.09148	192.13927	78.32213	4.45835	0.0586307	0.21577056	2.7530109	21	1 24.7	21.6
542870 2013 LA_{29}	18.4	X	250.01279	109.28666	261.87719	17.88748	0.1233961	0.36472943	1.9400913	21	5 10.6	20.9
542871 2013 LT_{31}	18.3	X	187.01768	218.25831	224.79544	20.34702	0.0846802	0.37230502	1.9136835	21	6 11.8	20.8
542872 2013 LT_{32}	17.1	X	59.04334	18.03435	147.46349	14.10238	0.0967715	0.23982392	2.5657109	21	5 1.8	20.4
542873 2013 LW_{32}	16.1	X	156.06823	148.90976	139.40337	14.49166	0.2066482	0.18263840	3.0766256	21	—	—
542874 2013 LL_{33}	16.4	X	266.81921	193.80259	70.84562	9.88295	0.1587781	0.21531605	2.7568837	21	1 25.9	20.9
542875 2013 LN_{34}	15.9	X	167.15360	35.86122	202.57959	16.76236	0.1815973	0.17361013	3.1823846	21	11 30.6	21.4
542876 2013 LG_{35}	16.4	X	339.30948	137.81176	83.34293	14.61567	0.2134072	0.23090563	2.6313565	21	2 19.9	19.7
542877 2013 LJ_{36}	16.0	X	109.10672	109.51868	272.95254	24.81926	0.1974700	0.17371617	3.1810895	21	1 20.2	20.8
542878 2013 MV_{2}	16.5	X	158.32749	195.50347	123.92681	11.57002	0.0880969	0.19024183	2.9940936	21	—	—
542879 2013 MX_{2}	16.2	X	165.97165	203.70257	120.69300	18.07107	0.1990179	0.19790294	2.9163158	21	1 10.6	21.0
542880 2013 MP_{4}	16.8	X	294.82742	167.82435	133.23693	14.22480	0.1743424	0.23207503	2.6225097	21	4 10.6	20.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
542881 2013 MU_4	17.6	X	112.87928	24.67361	222.68141	3.99717	0.1432761	0.26935542	2.3745732	21	11 3.5	21.0
542882 2013 MK_5	16.7	X	220.32002	153.40118	278.58838	12.80537	0.0604487	0.23752605	2.5822317	21	7 11.2	20.3
542883 2013 MP_5	17.9	X	148.39020	19.45868	249.58260	5.57645	0.0957605	0.28575182	2.2828465	21	—	—
542884 2013 MG_6	16.4	X	250.39963	202.85488	123.76336	13.47494	0.2312775	0.22282488	2.6945956	21	3 22.4	21.1
542885 2013 MM_6	17.8	X	138.13166	118.78098	181.63423	7.17488	0.1337074	0.30111960	2.2044996	21	—	—
542886 2013 MP_7	17.1	X	235.49913	46.12306	260.05272	12.38190	0.1987887	0.21436559	2.7650267	21	2 7.2	21.9
542887 2013 MW_{10}	16.8	X	297.40405	24.20994	300.25961	10.45783	0.1292809	0.23520044	2.5992255	21	5 13.4	20.4
542888 2013 MH_{11}	17.0	X	40.47873	310.79852	301.79198	13.20361	0.0234702	0.24739175	2.5131162	21	7 22.4	20.1
542889 2013 MY_{11}	8.5	X	9.74532	195.72403	99.60663	14.49223	0.5934979	0.00255412	53.0040164	21	9 7.2	22.3
542890 2013 NC_1	18.2	X	265.07761	105.13597	248.17809	18.85636	0.0948485	0.36349971	1.9444644	21	5 7.7	20.4
542891 2013 NH_1	16.6	X	170.64991	199.57599	86.70659	3.93216	0.2872417	0.18065065	3.0991531	21	—	—
542892 2013 NK_2	16.5	X	225.88551	4.13207	275.60215	8.45327	0.0769257	0.19592607	2.9358998	21	1 9.3	20.9
542893 2013 NM_3	16.3	X	351.66507	336.91946	285.19968	13.05502	0.1095968	0.23499413	2.6007466	21	5 16.6	19.3
542894 2013 NT_4	17.1	X	173.28211	86.67223	308.91500	5.61996	0.0820360	0.21542379	2.7559645	21	3 30.6	21.3
542895 2013 NJ_8	18.1	X	244.05047	135.71575	303.30537	19.08873	0.1015507	0.37862103	1.8923417	21	8 17.2	20.1
542896 2013 NQ_9	16.9	X	118.24728	132.11866	211.25154	4.44623	0.1614661	0.17597977	3.1537521	21	—	—
542897 2013 NM_{11}	17.6	X	320.55390	233.58876	97.79865	23.59691	0.0754154	0.37080255	1.9188495	21	7 10.2	18.8
542898 2013 NA_{14}	16.1	X	293.73079	136.17637	122.75213	8.96162	0.1322127	0.21232271	2.7827344	21	2 19.0	20.0
542899 2013 NF_{14}	17.1	X	200.69311	224.89354	113.43227	10.55820	0.1001480	0.20396792	2.8582144	21	2 24.3	21.6
542900 2013 NV_{17}	16.7	X	96.41615	31.57895	132.29590	16.31121	0.0941548	0.23314954	2.6144460	21	6 20.2	20.5
542901 2013 NL_{18}	16.6	X	183.40618	53.67047	314.17503	3.20880	0.1929226	0.20123663	2.8840184	21	3 14.2	21.5
542902 2013 NF_{25}	16.8	X	221.00046	171.64445	175.24607	3.66524	0.1031522	0.21022912	2.8011786	21	3 23.6	21.1
542903 2013 NB_{26}	17.3	X	201.74510	345.35524	22.66142	4.05949	0.1108311	0.20933936	2.8091103	21	3 30.5	21.6
542904 2013 NQ_{26}	17.0	X	153.83770	6.00577	348.29831	10.33358	0.1236136	0.18832368	3.0143899	21	2 1.0	21.7
542905 2013 NH_{32}	17.6	X	353.59223	102.44055	175.16267	6.66094	0.1599061	0.23666207	2.5885126	21	6 12.8	20.2
542906 2013 OJ	17.9	X	35.56135	125.65654	109.23581	24.72561	0.1363727	0.36736335	1.9308068	21	7 2.2	19.0
542907 2013 OM_3	18.0	X	146.65998	296.70854	176.16930	23.34609	0.0768563	0.35980793	1.9577425	21	6 7.6	21.0
542908 2013 OJ_7	16.0	X	29.60474	319.33276	283.23892	14.01078	0.0614809	0.23661824	2.5888322	21	6 25.3	18.9
542909 2013 OL_7	16.3	X	138.00019	87.61103	267.79929	18.85602	0.2301658	0.18006177	3.1059064	21	1 22.1	21.4
542910 2013 OW_9	16.2	X	190.28023	139.36792	149.14661	14.03373	0.2250771	0.18575939	3.0420676	21	—	—
542911 2013 OR_{10}	16.0	X	178.59980	40.79903	235.09826	16.76597	0.1908988	0.17688887	3.1429373	21	—	—
542912 2013 OU_{12}	16.4	X	177.53153	57.55015	270.45333	8.74184	0.2104142	0.17431693	3.1737765	21	1 25.9	21.9
542913 2013 PK	15.5	X	195.21185	8.35960	287.03802	11.21144	0.1091107	0.17850120	3.1239827	21	1 1.8	20.4
542914 2013 PY	16.5	X	68.49311	236.19683	170.11762	16.43373	0.1103295	0.17178182	3.2049253	21	—	—
542915 2013 PY_3	16.1	X	110.48540	74.59663	303.97808	12.22241	0.2865843	0.17242515	3.1969485	21	2 2.9	20.9
542916 2013 PP_4	15.4	X	169.86230	48.44374	275.48686	10.50885	0.0627428	0.17784774	3.1316303	21	1 6.4	19.9
542917 2013 PO_5	17.0	X	159.25045	10.64971	329.39650	12.26653	0.1060331	0.18003453	3.1062197	21	1 20.2	21.8
542918 2013 PJ_{11}	16.2	X	163.02947	165.31722	154.53827	17.66566	0.1785519	0.17728961	3.1381994	21	1 4.4	21.5
542919 2013 PS_{11}	15.5	X	93.75984	151.30921	268.82229	8.88125	0.1393614	0.17938808	3.1136777	21	2 9.5	19.8
542920 2013 PX_{11}	16.4	X	168.77154	209.11263	97.02090	10.62707	0.1280653	0.17929776	3.1147233	21	—	—
542921 2013 PE_{12}	16.7	X	146.09370	54.76787	308.21562	10.05664	0.2217349	0.17837259	3.1254841	21	2 9.9	21.8
542922 2013 PL_{14}	15.7	X	296.69981	89.10070	90.98026	9.53025	0.0406319	0.17580102	3.1558895	21	—	—
542923 2013 PG_{18}	16.9	X	117.49283	267.03099	154.24066	4.00153	0.2434254	0.19166845	2.9792180	21	3 26.7	21.5
542924 2013 PQ_{19}	17.0	X	208.50883	255.07924	111.62619	6.87662	0.0650505	0.20983723	2.8046651	21	4 8.3	21.2
542925 2013 PS_{27}	16.7	X	161.89040	41.76786	312.35239	7.07612	0.2629279	0.18478957	3.0527020	21	2 14.8	22.1
542926 2013 PP_{31}	16.2	X	161.51182	42.44377	303.91756	11.68899	0.1388296	0.17901740	3.1179745	21	1 29.6	21.0
542927 2013 PB_{34}	15.9	X	144.67438	56.35601	323.41901	17.30555	0.0606568	0.19052083	2.9911699	21	2 11.9	20.2
542928 2013 PY_{42}	16.4	X	129.68082	96.40349	269.87644	13.75810	0.2417255	0.17334948	3.1855739	21	1 29.9	21.5
542929 2013 PM_{44}	16.4	X	96.53707	56.26227	292.83889	13.19788	0.0575786	0.16879939	3.2425658	21	—	—
542930 2013 PN_{44}	17.5	X	197.39510	214.00152	184.30077	6.28127	0.0479184	0.22036444	2.7146158	21	5 3.1	21.4
542931 2013 PQ_{47}	18.0	X	35.42801	304.25957	327.46393	18.27104	0.0628591	0.36869807	1.9261443	21	8 24.3	19.2
542932 2013 PR_{48}	16.7	X	181.50900	147.92310	285.86937	8.29149	0.1424010	0.22033735	2.7148383	21	5 29.9	21.1
542933 2013 PZ_{51}	16.4	X	139.59385	118.70499	303.43444	7.57786	0.0799480	0.19743724	2.9208999	21	3 27.1	20.7
542934 2013 PU_{52}	15.5	X	183.64612	288.38870	350.33386	23.84015	0.3449525	0.17498091	3.1657426	21	—	—
542935 2013 PD_{57}	16.6	X	256.91615	73.50415	253.51121	8.20390	0.2183783	0.21693062	2.7431874	21	3 21.4	21.2
542936 2013 PM_{57}	16.4	X	146.82213	95.87606	251.86656	8.55074	0.0878868	0.18567839	3.0429523	21	1 9.9	20.9
542937 2013 PM_{60}	16.4	X	100.96517	89.66943	286.09417	10.44254	0.3159705	0.17140632	3.2096043	21	1 24.4	21.0
542938 2013 PW_{62}	17.6	X	243.91713	118.45777	225.22713	3.83667	0.0751759	0.21672299	2.7449392	21	4 13.4	21.6
542939 2013 PE_{64}	16.7	X	278.85362	42.72884	287.12769	17.24086	0.0601306	0.22643422	2.6658846	21	5 5.3	20.8
542940 2013 PJ_{64}	16.4	X	104.97110	213.00237	157.66769	20.65495	0.1271468	0.17729685	3.1381139	21	—	—
542941 2013 PN_{66}	18.1	X	160.67278	204.61328	318.59902	19.28785	0.0943996	0.37398312	1.9079547	21	9 3.6	20.5
542942 2013 PE_{68}	15.3	X	219.28230	281.71595	317.11547	9.73555	0.0604487	0.17234529	3.1979360	21	—	—
542943 2013 PX_{68}	18.6	X	175.08527	116.90861	322.74616	18.67731	0.1255368	0.34460241	2.0149171	21	5 21.3	21.8
542944 2013 PZ_{69}	16.7	X	160.98277	75.08522	263.21575	12.42459	0.3054565	0.18380581	3.0635847	21	1 27.4	22.2
542945 2013 PZ_{75}	17.3	X	127.80247	68.15932	327.92243	3.88031	0.1499813	0.18508544	3.0494479	21	2 23.9	21.9
542946 2013 PB_{77}	16.5	X	122.23165	187.51618	169.06416	9.95443	0.1043129	0.17394907	3.1782494	21	—	—
542947 2013 PH_{77}	17.0	X	116.87541	88.17668	319.41778	7.06118	0.2277507	0.18218466	3.0817319	21	3 6.2	21.8
542948 2013 PU_{77}	17.0	X	131.75762	85.63984	306.95806	8.97766	0.1196583	0.18688099	3.0298838	21	2 18.5	21.5
542949 2013 PV_{77}	17.0	X	132.87928	85.02046	304.23641	7.67578	0.1469741	0.18558642	3.0439575	21	2 19.1	21.6
542950 2013 PE_{78}	17.3	X	178.55494	108.70327	279.54755	0.98506	0.0788591	0.20304140	2.8669029	21	3 30.6	21.5
542951 2013 PO_{80}	16.9	X	211.31563	221.96957	139.03214	2.75778	0.0827519	0.20401873	2.8577398	21	4 2.0	21.2
542952 2013 PT_{82}	17.3	X	94.49542	195.76225	214.18233	0.37938	0.2231925	0.17522587	3.1627915	21	2 14.0	21.7
542953 2013 PG_{83}	16.7	X	144.10770	282.61478	157.36509	8.87505	0.1663111	0.20447916	2.8534483	21	5 7.2	21.3
542954 2013 QX_2	16.7	X	180.14334	45.99112	297.96893	9.92901	0.1285178	0.19247099	2.9709308	21	2 9.2	21.4
542955 2013 QZ_3	17.0	X	190.56941	176.78865	171.52643	2.16057	0.0794538	0.19672548	2.9279409	21	2 23.7	21.5
542956 2013 QD_5	16.3	X	119.85172	240.44881	153.40038	9.95632	0.1238883	0.18397683	3.0616859	21	2 9.1	20.7
542957 2013 QX_7	16.0	X	213.34702	4.01072	297.49860	9.77294	0.1039958	0.18995764	2.9970791	21	1 23.3	20.7
542958 2013 QQ_{10}	18.6	X	119.91745	283.33979	290.36423	17.84050	0.1128452	0.38114552	1.8839766	21	9 25.3	21.4
542959 2013 QS_{10}	18.4	X	173.63972	44.53551	149.37795	24.41115	0.0742892	0.38758449	1.8630526	21	11 24.1	21.2
542960 2013 QK_{11}	18.3	X	166.88531	224.77728	273.90570	18.24099	0.0755975	0.36587445	1.9360415	21	8 4.3	20.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
542961 2013 QW_{13}	17.5	X	209.42715	125.43996	305.95108	12.72323	0.0313845	0.23051111	2.6343581	21	7 1.2	21.2
542962 2013 QR_{14}	16.1	X	115.86877	164.88749	130.81666	11.08084	0.1166700	0.15294737	3.4629113	21	12 17.2	21.6
542963 2013 QO_{15}	16.5	X	134.07128	284.37377	138.93885	15.56090	0.2727646	0.18286283	3.0741078	21	4 20.9	21.9
542964 2013 QJ_{16}	17.3	X	259.96525	257.82365	57.61366	4.96589	0.0596704	0.21184499	2.7869162	21	4 1.1	21.2
542965 2013 QC_{21}	16.3	X	105.54507	294.92136	138.33126	9.73164	0.1228726	0.19125554	2.9835045	21	3 13.8	20.5
542966 2013 QB_{22}	16.7	X	186.31687	284.21626	68.95194	5.35091	0.0447018	0.19503875	2.9447976	21	2 26.9	21.0
542967 2013 QP_{22}	17.0	X	119.84027	95.21581	19.51306	4.62946	0.0225873	0.21386335	2.7693540	21	5 3.5	20.8
542968 2013 QY_{22}	15.2	X	136.91759	189.54720	152.53266	18.54148	0.1861547	0.17444180	3.1722617	21	1 6.9	20.3
542969 2013 QB_{24}	16.6	X	173.54107	209.69557	142.15479	12.48981	0.0410001	0.19223565	2.9733550	21	2 8.5	20.8
542970 2013 QO_{24}	16.8	X	159.70182	299.10010	89.11537	3.16124	0.1035709	0.19630823	2.9320883	21	3 15.3	21.3
542971 2013 QV_{24}	15.7	X	111.46367	248.82254	153.23095	24.22777	0.2634974	0.17706503	3.1408523	21	3 1.6	20.4
542972 2013 QV_{28}	16.5	X	136.49334	241.97862	161.01980	17.24242	0.1364315	0.19122343	2.9838385	21	3 12.1	21.0
542973 2013 QK_{30}	16.6	X	136.38506	234.25754	133.51735	8.49586	0.2760853	0.18227377	3.0807274	21	2 13.1	21.7
542974 2013 QZ_{32}	18.1	X	79.01898	142.37147	152.32114	23.08163	0.0752098	0.39079214	1.8528439	21	12 17.6	20.8
542975 2013 QO_{35}	16.4	X	144.62702	181.90659	147.98098	17.27319	0.1614533	0.17341859	3.1847275	21	—	
542976 2013 QU_{36}	16.0	X	250.08444	222.40141	353.00497	17.55947	0.0988339	0.17414968	3.1758082	21	—	—
542977 2013 QK_{40}	16.4	X	111.94719	111.41486	306.63260	8.93107	0.1272886	0.18886964	3.0085780	21	2 26.6	20.7
542978 2013 QL_{41}	17.0	X	327.55764	9.36908	249.02685	3.32805	0.0558879	0.21477634	2.7615003	21	4 11.7	20.6
542979 2013 QX_{42}	16.4	X	144.29395	20.28106	323.32429	17.81119	0.2416186	0.17662701	3.1460428	21	1 23.4	21.6
542980 2013 QB_{46}	15.5	X	122.84447	52.47586	335.13093	15.03201	0.0797310	0.17777377	3.1324989	21	2 3.9	20.1
542981 2013 QZ_{47}	17.1	X	160.88391	275.54483	77.73122	0.55217	0.2221045	0.18148579	3.0896382	21	2 12.1	22.3
542982 2013 QF_{48}	16.5	X	123.59293	2.39655	359.71924	13.32340	0.2767150	0.17087204	3.2162913	21	2 1.0	21.7
542983 2013 QQ_{50}	17.4	X	121.22164	220.50269	187.72766	3.85458	0.1582498	0.18596396	3.0398363	21	3 3.8	21.9
542984 2013 QV_{50}	17.6	X	75.57166	19.26504	182.69560	1.60560	0.0844550	0.23117960	2.6292772	21	7 10.6	21.0
542985 2013 QG_{51}	17.0	X	18.88816	276.88535	306.66581	3.89745	0.1013710	0.22082522	2.7108382	21	5 11.9	20.1
542986 2013 QO_{56}	16.8	X	273.17421	314.89255	2.37893	13.01501	0.0746965	0.21437141	2.7649767	21	4 11.9	20.8
542987 2013 QP_{57}	16.2	X	102.60643	270.82558	102.63478	3.24066	0.2046901	0.16950483	3.2335630	21	1 10.2	20.6
542988 2013 QY_{58}	16.7	X	200.39557	178.74167	135.77362	10.34204	0.0812764	0.18849762	3.0125353	21	1 25.9	21.4
542989 2013 QK_{59}	16.5	X	138.25373	261.79537	79.57512	2.12768	0.1613641	0.17500361	3.1654688	21	1 4.9	21.4
542990 2013 QH_{63}	16.4	X	167.16148	176.47113	144.97610	10.64201	0.1097215	0.18199191	3.0839074	21	1 3.9	21.3
542991 2013 QB_{65}	15.9	X	139.56476	222.29741	142.03053	12.60003	0.1246600	0.17986326	3.1081913	21	1 27.4	20.5
542992 2013 QT_{66}	18.3	X	266.51738	77.49606	326.71131	18.34868	0.1065398	0.36412204	1.9422482	21	8 4.4	20.1
542993 2013 QV_{66}	16.1	X	0.30203	24.34421	170.05574	15.25803	0.0766706	0.20467599	2.8516186	21	3 6.4	19.8
542994 2013 QW_{66}	16.9	X	110.30296	90.83920	328.50242	11.88518	0.1531695	0.18630631	3.0361111	21	3 3.0	21.3
542995 2013 QU_{69}	15.8	X	123.96422	246.62350	125.72408	12.05381	0.2821244	0.17531721	3.1616928	21	2 9.4	20.7
542996 2013 QF_{70}	15.5	X	302.98816	21.24019	266.00634	19.95528	0.1192132	0.21037008	2.7999272	21	3 29.7	19.8
542997 2013 QX_{73}	16.5	X	149.18860	76.94967	283.84296	15.30223	0.1882528	0.18292816	3.0733758	21	2 3.8	21.6
542998 2013 QY_{74}	15.6	X	144.05583	4.47108	319.50007	25.52213	0.2618877	0.17559783	3.1583236	21	1 5.4	21.0
542999 2013 QN_{80}	17.5	X	256.36255	167.02655	182.16191	5.80097	0.0339868	0.21853495	2.7297452	21	5 12.2	21.3
543000 2013 QY_{82}	16.6	X	306.57447	322.06199	348.56329	13.57659	0.1522096	0.22622700	2.6675123	21	5 1.4	20.3
543001 2013 QX_{83}	16.5	X	16.23816	169.99280	122.04431	12.32585	0.1247473	0.24468884	2.5315894	21	8 22.6	19.2
543002 2013 QL_{84}	16.2	X	138.68821	9.83144	332.93434	16.74847	0.2010525	0.17231532	3.1983069	21	1 15.2	21.4
543003 2013 QL_{85}	17.2	X	203.64188	45.08571	346.84407	5.67283	0.0567881	0.21603623	2.7507534	21	4 28.8	21.2
543004 2013 QX_{85}	17.2	X	352.94678	261.46934	330.82336	2.78312	0.0426884	0.21521763	2.7577241	21	4 14.7	20.8
543005 2013 QU_{88}	17.1	X	224.61948	185.19443	137.77407	6.42960	0.0605086	0.20031394	2.8928679	21	3 1.9	21.3
543006 2013 QD_{89}	16.5	X	169.95551	16.13836	317.14380	14.83453	0.0510564	0.18720618	3.0263739	21	1 17.3	20.9
543007 2013 QF_{93}	17.2	X	289.10072	132.28414	175.32803	9.26993	0.1710690	0.22104547	2.7090372	21	4 9.5	20.9
543008 2013 QM_{93}	16.0	X	142.66502	73.45332	274.61706	11.87446	0.1330937	0.17673266	3.1447890	21	1 12.6	20.8
543009 2013 QR_{93}	16.7	X	59.92530	144.02388	334.11480	10.40315	0.0981432	0.18903252	3.0068495	21	3 1.7	20.5
543010 2013 QR_{95}	18.3	X	340.55955	348.23267	351.26577	18.37641	0.0813348	0.37146370	1.9165720	21	9 9.5	19.4
543011 2013 QT_{95}	17.8	X	216.50302	139.11869	304.38179	18.50396	0.1162449	0.35942019	1.9591502	21	7 21.4	20.1
543012 2013 RB_{1}	16.8	X	138.80778	28.94852	350.75682	9.24705	0.1439399	0.18174798	3.0866661	21	2 17.9	21.4
543013 2013 RE_{1}	18.8	X	202.82793	133.14136	175.92590	2.18291	0.2582870	0.31435378	2.1421847	21	1 8.8	22.2
543014 2013 RM_{6}	16.9	X	146.39235	345.65409	33.59369	0.70332	0.1350800	0.18615064	3.0378036	21	2 21.8	21.6
543015 2013 RB_{14}	17.2	X	182.68205	224.41780	182.07765	5.93614	0.1967389	0.20611519	2.8383289	21	4 30.5	22.0
543016 2013 RN_{14}	16.5	X	160.48451	37.12842	318.34123	11.06049	0.0729039	0.18623022	3.0369381	21	2 2.7	21.0
543017 2013 RH_{16}	15.8	X	154.06580	53.02405	275.05732	21.98780	0.2803733	0.17669873	3.1451915	21	1 11.3	21.2
543018 2013 RF_{18}	17.2	X	229.69872	300.33693	70.03399	5.12891	0.1211451	0.20992242	2.8039064	21	4 30.5	21.5
543019 2013 RQ_{18}	16.3	X	151.50553	107.82070	233.93077	20.14893	0.3198148	0.17303271	3.1894606	21	1 23.8	22.2
543020 2013 RD_{20}	16.3	X	156.14590	202.69438	172.16456	10.59847	0.0852931	0.18724123	3.0259962	21	2 20.4	20.9
543021 2013 RK_{20}	16.4	X	152.23997	20.53956	27.38324	2.23918	0.1045875	0.19742649	2.9210059	21	3 30.1	20.7
543022 2013 RD_{23}	17.3	X	44.24683	250.98733	259.26933	7.30273	0.0234617	0.20142423	2.8822273	21	3 9.3	21.3
543023 2013 RE_{24}	16.1	X	58.43112	108.01605	356.52237	9.56686	0.0521507	0.18090105	3.0962926	21	2 11.5	20.3
543024 2013 RV_{29}	16.1	X	7.66708	248.54182	293.45511	8.76395	0.0261464	0.19735691	2.9216924	21	3 1.6	20.2
543025 2013 RM_{32}	16.6	X	173.97641	196.94158	145.00154	12.42502	0.2381154	0.18638170	3.0352924	21	2 9.2	21.8
543026 2013 RQ_{32}	16.5	X	196.92977	233.17112	81.36291	3.20546	0.2490834	0.18754037	3.0227777	21	1 27.1	21.7
543027 2013 RW_{33}	16.0	X	149.54997	0.83877	343.03397	22.83163	0.1912455	0.17539058	3.1608111	21	1 28.4	21.3
543028 2013 RA_{34}	15.9	X	158.93988	336.81594	358.96146	17.67181	0.2245458	0.17405947	3.1769053	21	1 28.7	21.4
543029 2013 RM_{35}	16.2	X	155.48825	340.67794	53.25082	11.67912	0.3342118	0.18327542	3.0694924	21	4 5.3	21.8
543030 2013 RX_{35}	15.7	X	165.66326	315.95690	23.33901	17.12365	0.2174431	0.17583014	3.1555410	21	2 7.3	21.2
543031 2013 RW_{39}	16.5	X	235.95590	71.62255	177.04909	3.53901	0.1290119	0.17397063	3.1779868	21	—	—
543032 2013 RA_{42}	16.2	X	112.81025	253.03862	164.12907	16.60874	0.2374503	0.17802688	3.1295291	21	3 18.1	20.9
543033 2013 RF_{42}	16.4	X	128.97831	249.84081	104.36959	5.16141	0.2226921	0.17025817	3.2240176	21	1 18.2	21.2
543034 2013 RM_{42}	17.6	X	33.86845	136.77297	154.33972	23.20885	0.0989891	0.37043221	1.9201282	21	10 8.2	19.6
543035 2013 RC_{43}	18.4	X	159.90531	344.65460	212.53236	20.70264	0.0502591	0.38386747	1.8750600	21	11 4.7	20.1
543036 2013 RN_{44}	15.6	X	181.91453	326.16182	5.83049	10.47982	0.0818365	0.18156269	3.0887658	21	2 1.8	20.4
543037 2013 RG_{46}	16.8	X	108.71153	81.37749	332.44072	6.29558	0.1170575	0.18017626	3.1045906	21	2 20.5	21.1
543038 2013 RU_{46}	16.8	X	104.68555	50.72998	339.08759	6.55025	0.1744641	0.17101294	3.2145244	21	1 28.8	21.2
543039 2013 RW_{46}	16.2	X	349.58862	263.03592	351.17629	11.50363	0.1020141	0.21616213	2.7496852	21	5 1.2	19.6
543040 2013 RT_{49}	16.8	X	130.13927	82.04305	326.00490	9.94327	0.1391318	0.18596119	3.0398664	21	3 9.1	21.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
543041 2013 RZ_{50}	16.5	X	88.26865	263.20891	182.36891	26.03910	0.1919939	0.18019945	3.1043242	21	3 15.7	20.8
543042 2013 RM_{51}	16.2	X	306.30454	261.29939	324.55634	8.76793	0.0329864	0.18868572	3.0105328	21	2 10.1	20.3
543043 2013 RY_{52}	16.1	X	108.78079	106.09759	324.38953	12.70450	0.2982626	0.17958970	3.1113469	21	3 29.8	21.1
543044 2013 RA_{57}	16.1	X	178.65400	331.04762	346.28662	12.52734	0.2021296	0.17872189	3.1214105	21	1 18.8	21.4
543045 2013 RK_{57}	16.8	X	111.34959	172.24173	330.11221	7.52066	0.0946725	0.21450480	2.7638303	21	6 8.4	20.8
543046 2013 RT_{57}	16.7	X	90.04765	107.62673	337.21967	15.42589	0.2351485	0.18007770	3.1057233	21	3 19.7	21.0
543047 2013 RT_{59}	16.3	X	129.47556	53.06399	327.33795	10.81601	0.0719620	0.17917237	3.1161763	21	1 31.2	20.8
543048 2013 RY_{63}	16.9	X	182.48241	152.37901	167.29670	8.79946	0.0908809	0.18067881	3.0988310	21	1 15.1	21.8
543049 2013 RB_{64}	16.9	X	80.84448	297.42414	162.92693	2.21669	0.0572568	0.19055159	2.9908479	21	3 4.2	20.9
543050 2013 RG_{68}	15.5	X	176.04220	77.77554	236.97031	12.58524	0.1754265	0.17390567	3.1787782	21	1 7.9	20.8
543051 2013 RH_{68}	15.9	X	105.06469	185.21901	235.38482	11.60991	0.1338017	0.17512696	3.1639823	21	2 22.3	20.6
543052 2013 RH_{71}	16.3	X	124.57143	187.55095	174.34187	20.29052	0.2067178	0.17031793	3.2232634	21	1 18.8	21.5
543053 2013 RA_{85}	16.0	X	282.50435	267.60237	336.71700	9.54849	0.0592727	0.18261381	3.0769018	21	2 3.0	20.5
543054 2013 RK_{88}	16.4	X	159.75080	61.49775	302.68981	3.92583	0.0910973	0.18158122	3.0885556	21	2 13.4	21.1
543055 2013 RC_{89}	15.6	X	140.73006	189.49052	199.28871	16.29702	0.1809792	0.18110317	3.0939884	21	2 28.9	20.6
543056 2013 RS_{91}	16.6	X	224.30024	85.71899	218.23123	13.13111	0.1824037	0.18168303	3.0874017	21	1 31.7	22.0
543057 2013 RZ_{92}	16.6	X	100.00554	235.93272	199.30454	9.23671	0.1120775	0.17918640	3.1160137	21	3 5.1	21.1
543058 2013 RG_{93}	16.7	X	120.48728	210.65938	194.85161	16.97748	0.2020791	0.17753200	3.1353423	21	3 4.0	21.6
543059 2013 RC_{95}	16.0	X	112.43522	241.35364	158.71396	9.79414	0.1078590	0.17447087	3.1719094	21	2 7.1	20.5
543060 2013 RQ_{95}	16.8	X	89.80656	307.02214	115.28816	5.94403	0.2099379	0.17261037	3.1946611	21	2 23.3	21.1
543061 2013 RS_{97}	16.1	X	141.90297	55.25599	293.14091	15.18354	0.2295244	0.17191381	3.2032847	21	1 22.4	21.3
543062 2013 RJ_{100}	16.8	X	104.58642	82.04134	352.41328	7.34662	0.0952817	0.18783891	3.0195740	21	3 8.7	20.8
543063 2013 RK_{100}	16.5	X	123.72975	217.84407	178.95020	10.86033	0.1528121	0.18055568	3.1002397	21	2 19.9	21.2
543064 2013 RT_{100}	16.9	X	157.13333	349.82234	9.27170	0.33026	0.1766948	0.17962623	3.1109250	21	2 12.6	21.9
543065 2013 RZ_{101}	16.9	X	153.59128	159.29741	196.27814	7.14628	0.1606691	0.17764922	3.1339629	21	2 2.4	22.0
543066 2013 RE_{103}	17.4	X	116.26387	104.91692	355.94816	1.54976	0.0285608	0.20223166	2.8745505	21	4 13.3	21.4
543067 2013 RC_{104}	17.0	X	47.84794	255.93068	353.42007	2.98233	0.1146955	0.23142444	2.6274224	21	8 10.9	20.1
543068 2013 RW_{104}	16.8	X	109.41164	69.17298	346.72553	10.39733	0.1962633	0.17581697	3.1556986	21	3 6.9	21.5
543069 2013 RK_{106}	16.3	X	170.69956	138.99423	207.55645	10.04789	0.1442882	0.17658387	3.1465553	21	2 5.4	21.4
543070 2013 RL_{106}	17.1	X	133.78884	42.46185	26.56734	9.11181	0.1886422	0.18413830	3.0598958	21	4 14.8	22.0
543071 2013 RK_{107}	17.1	X	114.62045	29.84603	18.61031	6.12775	0.1609243	0.17651623	3.1473590	21	3 1.3	21.7
543072 2013 RC_{108}	16.4	X	123.19443	19.67201	16.32461	15.29879	0.0900550	0.17565087	3.1576877	21	2 19.7	21.2
543073 2013 RT_{108}	16.7	X	113.67759	73.23495	320.79057	4.22050	0.1462238	0.17494985	3.1661173	21	2 7.4	21.1
543074 2013 RV_{108}	16.8	X	100.06456	223.59507	160.29023	8.41060	0.0936601	0.17139019	3.2098057	21	1 3.1	21.3
543075 2013 SR_{11}	16.5	X	67.61249	247.46146	177.31888	4.85188	0.1505872	0.17217095	3.2000945	21	1 14.9	20.5
543076 2013 SU_{16}	16.6	X	106.16223	33.12654	22.60217	14.54750	0.3322862	0.17827758	3.1265945	21	3 23.4	21.5
543077 2013 SU_{20}	17.5	X	41.84322	311.78107	281.05806	16.45888	0.0809958	0.34978257	1.9949741	21	7 2.3	19.0
543078 2013 SV_{21}	16.4	X	117.56935	242.08153	165.97775	11.12097	0.0340270	0.18342992	3.0677685	21	2 10.8	20.8
543079 2013 SN_{22}	15.7	X	142.59491	146.13983	251.52457	16.92734	0.2022940	0.18127800	3.0919988	21	3 10.4	21.0
543080 2013 SQ_{25}	16.2	X	216.75553	341.11505	334.41542	9.17480	0.0795394	0.18504168	3.0499286	21	2 14.1	20.9
543081 2013 SC_{26}	16.3	X	296.22876	321.31551	339.99452	12.88764	0.1810909	0.21450138	2.7638597	21	4 2.7	20.3
543082 2013 SQ_{26}	16.0	X	126.36439	13.50886	27.92424	16.30470	0.2678692	0.17537619	3.1609840	21	3 20.4	21.2
543083 2013 SG_{27}	16.5	X	177.20727	182.98479	146.05898	1.81792	0.1755648	0.18091422	3.0961423	21	1 26.1	21.4
543084 2013 SD_{28}	16.4	X	133.87879	68.76558	303.44147	14.51712	0.2492811	0.17335303	3.1855305	21	2 11.4	21.6
543085 2013 SM_{28}	16.3	X	150.85649	38.95225	8.69624	14.01688	0.1173077	0.18779428	3.0200524	21	3 29.9	20.8
543086 2013 SW_{28}	16.1	X	131.28417	274.85167	121.34053	11.59013	0.0999374	0.17480182	3.1679045	21	2 26.0	20.8
543087 2013 SA_{32}	16.3	X	138.68372	349.14594	1.50030	17.75869	0.2023412	0.17400195	3.1776055	21	1 26.3	21.5
543088 2013 SG_{32}	16.9	X	112.62206	246.44431	177.16256	8.11969	0.0688011	0.18713126	3.0271817	21	2 28.3	21.1
543089 2013 SW_{33}	17.0	X	18.75837	246.37121	350.97779	15.12521	0.1313233	0.22291990	2.6938298	21	5 30.2	20.3
543090 2013 SG_{35}	17.1	X	116.28072	219.85913	182.39389	3.15562	0.2412775	0.17709848	3.1404568	21	3 2.8	21.9
543091 2013 SG_{37}	16.2	X	117.89980	34.07391	13.58452	15.98261	0.1804761	0.18011363	3.1053103	21	3 8.9	20.9
543092 2013 SP_{37}	16.6	X	299.58540	182.96050	88.22811	3.31500	0.0229026	0.20164872	2.8800879	21	3 31.0	20.5
543093 2013 SD_{38}	16.8	X	181.71590	247.96207	111.32550	3.32594	0.1277746	0.18886247	3.0086542	21	3 4.2	21.6
543094 2013 SZ_{38}	16.2	X	109.25415	213.66878	204.08661	9.42241	0.1019327	0.17671909	3.1449499	21	2 21.4	20.8
543095 2013 SC_{39}	16.8	X	161.14776	7.39697	15.07456	9.82775	0.2599464	0.18524152	3.0477347	21	3 20.7	22.0
543096 2013 SJ_{41}	16.4	X	129.15978	209.64385	298.57255	8.13405	0.1011541	0.22785169	2.6548167	21	7 9.1	20.2
543097 2013 SF_{42}	17.0	X	149.64734	227.48389	142.22939	6.02432	0.1345711	0.18109127	3.0941239	21	2 14.3	21.8
543098 2013 SV_{42}	16.4	X	147.26364	274.85286	97.82870	8.98545	0.0615432	0.18034165	3.1026922	21	2 10.1	21.0
543099 2013 SJ_{43}	16.2	X	165.04012	210.31718	123.25238	11.51423	0.2024890	0.17622868	3.1507818	21	1 23.4	21.4
543100 2013 SX_{43}	16.4	X	109.17757	263.78205	159.76080	17.69405	0.3008193	0.17419284	3.1752836	21	3 31.4	21.4
543101 2013 SF_{45}	17.1	X	98.97128	84.50846	356.52229	7.42942	0.1686905	0.18394522	3.0620367	21	3 20.2	21.3
543102 2013 SB_{47}	16.3	X	167.83928	169.01097	172.64045	10.15408	0.1005565	0.18053479	3.1004789	21	1 26.2	21.1
543103 2013 SJ_{48}	16.6	X	146.95183	318.46988	43.70743	12.37033	0.1694164	0.17598780	3.1536561	21	2 11.9	21.7
543104 2013 SM_{48}	17.1	X	191.35180	286.46368	95.30436	5.98043	0.1086918	0.19632703	2.9319011	21	4 9.6	21.7
543105 2013 SP_{49}	16.5	X	187.95626	233.86067	130.59165	3.61662	0.1404497	0.18782247	3.0197502	21	3 16.4	21.4
543106 2013 SE_{50}	16.6	X	155.45011	100.20180	280.10904	9.39374	0.1442914	0.18132673	3.0914448	21	2 28.5	21.6
543107 2013 SJ_{50}	16.2	X	163.58230	335.39215	40.94335	9.76949	0.0987389	0.17728930	3.1382030	21	3 9.9	21.1
543108 2013 SM_{52}	16.5	X	148.39409	197.64059	162.36807	17.80148	0.1922265	0.17426149	3.1744496	21	2 6.4	21.6
543109 2013 SP_{56}	16.1	X	117.53021	330.18128	47.99678	8.27354	0.1649356	0.17086733	3.2163504	21	1 29.7	20.9
543110 2013 SU_{57}	16.2	X	107.21749	277.01287	145.05140	18.51397	0.1609586	0.18043046	3.1016740	21	3 8.8	20.7
543111 2013 SK_{59}	16.5	X	168.70717	200.15741	166.21903	11.85444	0.1395674	0.18421198	3.0590797	21	2 27.9	21.3
543112 2013 SH_{60}	16.3	X	90.33734	248.06790	166.27519	16.39596	0.2456303	0.17460730	3.1702568	21	2 16.3	20.6
543113 2013 SX_{60}	16.2	X	221.78223	197.30185	138.48782	11.75286	0.1102487	0.20200678	2.8766835	21	3 13.9	20.7
543114 2013 SV_{63}	16.9	X	292.09559	49.88408	255.91352	3.99765	0.1481627	0.21937148	2.7228013	21	4 11.1	20.7
543115 2013 SD_{64}	16.7	X	169.43057	244.49537	126.00127	5.82464	0.2050278	0.18618941	3.0373819	21	3 10.7	21.8
543116 2013 SG_{64}	17.2	X	202.80138	163.01193	199.28070	3.17855	0.1716497	0.19699535	2.9252663	21	3 24.6	22.1
543117 2013 ST_{64}	16.5	X	150.05709	331.71615	344.89333	16.46858	0.1040105	0.17074769	3.2178527	21	—	—
543118 2013 SQ_{67}	16.1	X	131.28540	24.27284	14.85811	16.52073	0.2307428	0.18160389	3.0882986	21	3 16.4	21.1
543119 2013 SJ_{71}	18.0	X	92.38953	258.25608	334.35479	19.50207	0.0424291	0.37298598	1.9113536	21	9 14.6	20.0
543120 2013 SX_{71}	16.2	X	170.58257	205.37866	140.22107	7.35766	0.1169273	0.18166768	3.0875756	21	2 4.8	21.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
543121 2013 SE_{73}	16.0	X	95.44350	39.47303	23.60127	26.42728	0.2075609	0.17470285	3.1691008	21	3 13.9	20.7
543122 2013 SM_{73}	17.1	X	108.63045	26.84727	26.73462	3.39418	0.1546567	0.17966106	3.1105229	21	2 26.6	21.4
543123 2013 SP_{76}	16.2	X	142.79280	220.14363	127.44584	10.17630	0.0863366	0.17108785	3.2135861	21	1 9.0	20.9
543124 2013 SJ_{79}	16.4	X	163.36846	72.03689	283.06241	13.57417	0.2318239	0.17922110	3.1156115	21	2 12.1	21.8
543125 2013 SP_{82}	16.4	X	256.37442	105.25404	163.37258	10.32351	0.1069030	0.18617937	3.0374911	21	1 26.0	21.1
543126 2013 SZ_{83}	16.2	X	118.67932	26.88554	349.81194	27.43909	0.1828011	0.17060337	3.2196672	21	2 8.5	21.3
543127 2013 SW_{84}	15.9	X	101.62358	135.50290	308.95489	16.56553	0.2098353	0.18429580	3.0581521	21	3 24.3	20.6
543128 2013 SK_{101}	16.0	X	168.55271	78.56168	252.63630	15.16866	0.2239738	0.17676552	3.1443992	21	1 20.7	21.5
543129 2013 TE_{1}	16.1	X	210.77052	350.15005	316.98071	12.40464	0.1321623	0.18658658	3.0330701	21	1 28.9	20.9
543130 2013 TC_{2}	16.5	X	143.52824	142.68162	230.66373	11.93366	0.1598168	0.17886820	3.1197081	21	2 10.5	21.6
543131 2013 TH_{3}	16.6	X	230.35819	77.48938	278.85114	13.50822	0.1687474	0.20227605	2.8741300	21	4 3.9	21.6
543132 2013 TE_{5}	18.0	X	147.71432	271.22313	221.26679	20.65449	0.0873624	0.34579910	2.0102658	21	7 3.5	21.0
543133 2013 TX_{9}	15.6	X	127.26118	53.67325	333.49822	14.85358	0.0969022	0.17915639	3.1163617	21	2 9.5	20.1
543134 2013 TM_{10}	16.9	X	103.24052	295.30038	121.23526	6.17954	0.1757050	0.17235536	3.1978114	21	2 28.1	21.4
543135 2013 TW_{11}	16.6	X	107.45618	123.51082	285.17375	3.21916	0.2501304	0.17470532	3.1690709	21	3 1.9	21.3
543136 2013 TZ_{12}	16.6	X	133.70641	154.29315	227.27841	15.25722	0.1758055	0.17950503	3.1123251	21	2 10.9	21.7
543137 2013 TL_{13}	16.3	X	126.40963	355.64100	33.82019	9.78510	0.1056475	0.17611090	3.1521864	21	2 15.1	21.0
543138 2013 TE_{14}	16.5	X	215.10607	258.54571	84.06824	4.70722	0.0669412	0.19240206	2.9716403	21	3 17.7	20.9
543139 2013 TG_{17}	16.5	X	121.41601	68.00522	353.18198	9.16971	0.2354961	0.17820960	3.1273896	21	3 28.3	21.3
543140 2013 TP_{17}	16.5	X	28.33544	219.77205	8.15298	13.48620	0.1473079	0.21012115	2.8021381	21	6 7.1	19.9
543141 2013 TQ_{17}	16.7	X	104.96391	213.03532	261.92575	4.40531	0.1508922	0.18934744	3.0035147	21	5 5.0	21.1
543142 2013 TD_{22}	16.8	X	82.99905	43.39908	57.81944	3.35907	0.0951906	0.18393678	3.0621303	21	3 15.9	20.9
543143 2013 TK_{23}	16.3	X	80.29072	218.10965	248.60620	5.97083	0.1440861	0.17755779	3.1350386	21	3 22.7	20.5
543144 2013 TH_{30}	16.2	X	135.69385	12.59315	51.78571	9.03953	0.1053407	0.18270421	3.0758868	21	4 6.0	20.8
543145 2013 TV_{30}	16.0	X	51.25590	76.89650	50.12137	15.46474	0.1128190	0.17176577	3.2051250	21	3 14.2	20.3
543146 2013 TW_{31}	16.0	X	162.37244	106.70947	275.49540	13.90649	0.2060383	0.19324743	2.9629675	21	3 8.9	21.2
543147 2013 TK_{34}	16.4	X	121.07883	211.60500	194.29992	14.64287	0.2798521	0.17447209	3.1718945	21	3 14.8	21.6
543148 2013 TV_{36}	15.7	X	114.32651	18.03772	20.54570	20.80791	0.1655195	0.17413280	3.1760133	21	2 26.2	20.7
543149 2013 TL_{39}	16.7	X	158.39499	147.44529	204.39763	10.67985	0.1696034	0.17505148	3.1648917	21	2 2.4	22.0
543150 2013 TO_{39}	15.9	X	106.65005	24.37450	27.28344	14.88975	0.1032300	0.17213365	3.2005567	21	2 21.9	20.6
543151 2013 TQ_{39}	16.3	X	121.98418	205.57098	200.87917	16.80588	0.2019701	0.17542036	3.1604533	21	3 6.5	21.4
543152 2013 TQ_{41}	16.9	X	134.42553	248.10683	157.80565	0.79232	0.2548581	0.17957834	3.1114781	21	3 25.4	22.0
543153 2013 TE_{42}	16.9	X	125.59793	95.66495	335.76960	10.95988	0.1807363	0.18068468	3.0987640	21	4 4.7	21.8
543154 2013 TM_{42}	15.8	X	103.50918	148.42842	284.70990	19.09347	0.1979494	0.18015266	3.1048617	21	3 9.8	20.6
543155 2013 TY_{42}	16.8	X	121.37427	55.65121	351.83815	4.39400	0.1874143	0.17561565	3.1581099	21	3 8.7	21.4
543156 2013 TD_{43}	16.1	X	153.46375	353.84944	18.54398	11.01481	0.0956880	0.17747383	3.1360273	21	2 22.6	20.9
543157 2013 TH_{44}	16.0	X	195.84107	292.28188	19.04623	16.59780	0.1068651	0.17525083	3.1624912	21	1 26.3	21.3
543158 2013 TQ_{44}	16.5	X	154.84072	147.96678	204.74053	6.93718	0.1595953	0.17493657	3.1662775	21	1 31.5	21.6
543159 2013 TE_{48}	16.1	X	124.98996	75.14990	347.68255	25.86006	0.1900303	0.18061193	3.0995960	21	3 23.3	21.0
543160 2013 TH_{48}	17.1	X	140.52006	190.74481	196.51813	4.18602	0.1502384	0.18456770	3.0551480	21	2 25.7	21.7
543161 2013 TC_{50}	16.9	X	114.94412	280.79890	180.27015	12.75151	0.1867133	0.18792845	3.0186148	21	5 6.8	21.6
543162 2013 TN_{50}	16.6	X	130.24349	47.87407	29.90915	10.76185	0.0930021	0.18789685	3.0189532	21	4 12.3	21.0
543163 2013 TE_{53}	15.5	X	30.13999	252.59503	236.85033	10.69387	0.0981275	0.16961135	3.2322090	21	1 30.9	19.8
543164 2013 TF_{54}	16.2	X	42.56735	249.89185	228.83119	9.24200	0.0941358	0.17188310	3.2036662	21	2 4.9	20.5
543165 2013 TD_{56}	16.8	X	18.44047	265.66381	358.41558	10.48991	0.2840660	0.23014991	2.6371136	21	8 5.0	18.9
543166 2013 TL_{56}	17.1	X	43.71341	233.30705	354.08401	8.53325	0.1091878	0.21673562	2.7448326	21	7 2.9	20.6
543167 2013 TO_{58}	16.0	X	153.60697	112.12015	240.87258	12.10457	0.2291249	0.17624273	3.1506143	21	2 2.5	21.4
543168 2013 TG_{61}	16.0	X	257.81303	22.91353	225.41332	16.56688	0.1607289	0.17618943	3.1512497	21	—	—
543169 2013 TC_{63}	16.2	X	120.60142	20.75609	12.65465	11.49069	0.0841604	0.17354438	3.1831884	21	2 11.1	20.9
543170 2013 TA_{66}	16.5	X	236.59718	340.83938	321.72611	9.36646	0.0533444	0.18618539	3.0374256	21	2 18.9	20.9
543171 2013 TH_{67}	16.8	X	112.67515	112.04340	296.59099	8.74901	0.1336551	0.18437004	3.0573311	21	2 17.8	21.2
543172 2013 TU_{67}	16.6	X	218.68983	56.71560	281.53492	6.88481	0.0593635	0.20118951	2.8844687	21	3 9.4	21.0
543173 2013 TY_{72}	16.1	X	121.13544	23.84861	45.95021	6.04191	0.1426683	0.18143198	3.0902491	21	3 31.1	20.6
543174 2013 TV_{73}	16.0	X	163.96593	113.24207	220.91386	21.29594	0.2893510	0.17351358	3.1835651	21	1 22.6	21.9
543175 2013 TW_{73}	16.6	X	135.41516	182.44310	223.67042	15.57047	0.0887617	0.17842062	3.1249233	21	3 4.9	21.5
543176 2013 TB_{75}	16.4	X	139.65125	146.27074	259.67658	3.28681	0.1460997	0.17803304	3.1294569	21	3 18.7	21.2
543177 2013 TL_{75}	16.3	X	144.72526	329.18162	42.15216	10.09947	0.0956348	0.17400746	3.1775384	21	2 12.7	21.2
543178 2013 TA_{76}	16.9	X	308.65015	43.85632	245.04986	6.53538	0.1557625	0.21592131	2.7517293	21	4 9.5	20.5
543179 2013 TL_{87}	16.2	X	67.12909	247.37556	184.30625	6.10843	0.0790459	0.16968012	3.2313357	21	1 15.2	20.6
543180 2013 TV_{88}	16.6	X	221.43756	96.00443	217.88088	17.79197	0.1311238	0.18401014	3.0613163	21	2 9.0	21.9
543181 2013 TP_{91}	16.4	X	11.07343	326.94591	190.70277	9.52206	0.0472108	0.17975455	3.1094443	21	2 7.6	20.6
543182 2013 TK_{93}	16.5	X	117.48980	33.94495	35.95870	10.62482	0.1216525	0.17973944	3.1096186	21	3 26.3	21.1
543183 2013 TO_{94}	16.6	X	129.34613	173.92787	222.23482	10.27363	0.1291804	0.17765685	3.1338731	21	2 20.6	21.5
543184 2013 TQ_{94}	16.4	X	196.23505	290.42130	41.11244	7.22172	0.1274377	0.17856786	3.1232053	21	2 16.3	21.4
543185 2013 TG_{96}	16.3	X	110.36187	175.50563	227.69666	8.80427	0.1598241	0.17266124	3.1940335	21	2 13.1	21.1
543186 2013 TM_{100}	15.6	X	165.40577	155.38528	188.90031	11.44052	0.0644545	0.17718060	3.1394864	21	1 23.8	20.5
543187 2013 TJ_{101}	15.9	X	292.47520	274.09831	9.92375	9.76657	0.0633544	0.19169657	2.9789268	21	3 31.7	20.0
543188 2013 TZ_{101}	16.4	X	84.82505	253.07546	209.01002	9.78112	0.0927324	0.18004487	3.1061008	21	3 15.7	20.8
543189 2013 TW_{105}	17.0	X	175.14882	149.49158	212.59621	4.42661	0.1388214	0.18412596	3.0600324	21	2 27.6	21.9
543190 2013 TF_{107}	16.1	X	144.03620	177.92012	203.17866	14.86219	0.0828478	0.17568042	3.1573336	21	2 13.5	21.1
543191 2013 TQ_{107}	16.4	X	151.50531	198.31343	149.91311	2.39377	0.1508161	0.17132213	3.2106557	21	1 24.8	21.5
543192 2013 TN_{108}	17.9	X	149.31666	207.82071	179.18458	5.32003	0.1074808	0.30774845	2.1727285	21	2 11.4	20.6
543193 2013 TN_{109}	16.3	X	102.40647	213.85958	235.76640	10.20050	0.1016953	0.17989975	3.1077710	21	3 22.6	20.8
543194 2013 TH_{110}	16.2	X	143.79848	130.62027	249.19641	5.37703	0.1049108	0.17432024	3.1737362	21	2 15.9	21.0
543195 2013 TS_{110}	16.2	X	167.59081	23.08687	356.54012	6.16683	0.1825978	0.18307076	3.0717797	21	3 17.2	21.0
543196 2013 TR_{113}	16.3	X	148.04351	188.07310	192.44482	9.51068	0.0875736	0.17658165	3.1465816	21	2 19.2	21.1
543197 2013 TE_{114}	15.6	X	21.55626	155.08752	35.80382	12.67132	0.0069004	0.18599161	3.0395350	21	4 8.3	19.8
543198 2013 TT_{115}	16.0	X	110.13614	100.86579	317.37285	13.43659	0.1386905	0.17701460	3.1414488	21	2 27.5	20.5
543199 2013 TG_{120}	16.9	X	135.94155	246.91617	163.76481	12.60717	0.3368800	0.18277344	3.0751100	21	4 9.6	22.3
543200 2013 TK_{123}	16.5	X	123.46175	195.16229	196.25867	5.07236	0.1786795	0.17597270	3.1538365	21	2 17.3	21.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
543201 2013 TD_{124}	18.6	X	227.04529	350.03711	342.44941	2.27636	0.2164966	0.32383266	2.1001756	21	2 24.4	22.0
543202 2013 TM_{124}	17.1	X	11.84277	344.06160	275.92511	2.03286	0.0404908	0.21555922	2.7548100	21	6 20.9	20.6
543203 2013 TZ_{126}	15.8	X	194.75871	79.59231	248.54589	8.51036	0.0890141	0.17569385	3.1571727	21	2 4.5	20.9
543204 2013 TA_{127}	16.2	X	200.18754	96.93137	246.59444	8.19460	0.1734704	0.18223565	3.0811569	21	2 26.7	21.4
543205 2013 TG_{128}	16.1	X	130.23974	153.91308	198.76841	9.24309	0.1478764	0.17043273	3.2218159	21	1 7.7	21.0
543206 2013 TS_{128}	16.3	X	85.38700	104.16519	339.92625	10.40972	0.0407093	0.18322239	3.0700847	21	2 18.3	20.4
543207 2013 TV_{129}	16.7	X	136.47452	216.08762	165.02221	8.89339	0.1973161	0.17978306	3.1091156	21	2 20.3	21.6
543208 2013 TS_{133}	17.1	X	168.24370	212.61070	158.89937	2.04497	0.1957165	0.18566764	3.0430697	21	3 8.9	22.0
543209 2013 TB_{134}	16.7	X	124.38498	193.96777	194.04339	4.06598	0.2121162	0.17377263	3.1804004	21	2 18.7	21.6
543210 2013 TJ_{134}	15.9	X	169.39507	228.09537	94.10628	6.81731	0.1316741	0.16816565	3.2507072	21	1 11.3	21.0
543211 2013 TG_{139}	16.0	X	176.56881	288.60011	25.76527	24.77197	0.3252172	0.17569692	3.1571359	21	1 23.4	22.1
543212 2013 TD_{141}	16.2	X	118.74206	211.29852	201.54895	10.68121	0.1917008	0.17398690	3.1777887	21	3 10.7	21.0
543213 2013 TM_{143}	16.4	X	112.16082	21.12679	21.48609	14.62033	0.2588204	0.17553732	3.1590493	21	3 7.6	21.3
543214 2013 TZ_{144}	16.3	X	138.28091	319.97062	31.51401	14.64770	0.2725518	0.17282493	3.1920165	21	2 1.8	21.7
543215 2013 TC_{147}	17.2	X	188.24791	187.21886	162.10678	2.53912	0.0702056	0.19935383	2.9021487	21	2 21.9	21.6
543216 2013 TU_{148}	16.5	X	153.31692	221.07160	120.80891	2.46159	0.0766234	0.18149864	3.0894924	21	1 10.8	21.0
543217 2013 TO_{161}	16.6	X	174.05828	329.91727	56.56248	13.19251	0.1850794	0.18408356	3.0605023	21	4 5.1	21.8
543218 2013 TV_{161}	16.6	X	24.37576	343.11090	194.19412	1.52801	0.0586609	0.18699340	3.0286693	21	3 23.6	20.5
543219 2013 TP_{162}	16.8	X	91.23077	257.37837	194.55481	9.91830	0.1579926	0.17640802	3.1486460	21	3 22.9	21.1
543220 2013 TP_{165}	16.5	X	188.64623	283.73196	57.70819	5.61942	0.1233969	0.17900059	3.1181697	21	2 20.1	21.5
543221 2013 TX_{166}	16.6	X	203.61195	122.10411	190.55804	10.97153	0.1162227	0.17656869	3.1467355	21	1 27.0	21.7
543222 2013 TS_{167}	16.8	X	128.60479	42.49904	37.73271	11.08218	0.1164474	0.18904782	3.0066873	21	4 16.5	21.2
543223 2013 TT_{167}	16.2	X	140.06173	330.43360	47.31935	8.09411	0.1296488	0.17536085	3.1611683	21	2 17.9	21.1
543224 2013 TQ_{169}	16.3	X	156.53582	292.51355	73.81174	4.19296	0.1027158	0.17476993	3.1682898	21	2 16.9	21.1
543225 2013 TT_{170}	16.9	X	142.56133	193.32174	202.71794	9.91811	0.0551944	0.17874517	3.1211394	21	2 27.6	21.5
543226 2013 TO_{172}	17.3	X	246.69531	66.59788	37.07870	13.56473	0.2224379	0.23259870	2.6185721	21	9 10.7	21.4
543227 2013 UX_{3}	18.4	X	116.15402	299.91361	293.73995	18.82394	0.0614605	0.37034110	1.9204431	21	10 17.5	21.2
543228 2013 UY_{4}	16.8	X	148.74302	269.04457	135.72338	9.41975	0.2784223	0.18353190	3.0666321	21	4 9.1	22.2
543229 2013 UC_{6}	15.8	X	160.20205	307.41524	50.02856	10.44324	0.0996967	0.17642603	3.1484317	21	2 12.4	20.7
543230 2013 UQ_{6}	16.3	X	268.59855	258.03790	55.46358	14.05680	0.1711162	0.20420991	2.8559559	21	4 1.2	20.8
543231 2013 UV_{6}	15.9	X	129.82813	1.96365	28.80189	28.53285	0.1447909	0.17346109	3.1842073	21	3 9.3	21.2
543232 2013 UE_{7}	15.8	X	165.77534	154.90549	197.25385	17.10536	0.2107781	0.17660509	3.1463032	21	2 10.6	21.3
543233 2013 UF_{7}	16.5	X	122.66935	10.04400	67.25694	11.00156	0.2567494	0.17982848	3.1085921	21	4 24.4	21.6
543234 2013 UO_{7}	16.0	X	167.79527	300.32050	68.87852	10.11206	0.0876631	0.17937586	3.1138191	21	3 5.3	20.9
543235 2013 US_{7}	16.3	X	165.98455	288.01259	97.78960	7.35196	0.1532160	0.18677527	3.0310269	21	3 24.8	21.2
543236 2013 UK_{8}	16.3	X	172.26674	7.88265	68.56014	14.15227	0.1113812	0.20176748	2.8789576	21	5 25.2	20.8
543237 2013 UW_{10}	16.2	X	121.56092	188.66553	219.47847	10.34497	0.0774723	0.17599938	3.1535178	21	2 20.1	20.9
543238 2013 UO_{12}	16.5	X	141.40789	13.13426	50.73814	12.11614	0.2931237	0.18282672	3.0745125	21	4 25.2	21.9
543239 2013 UJ_{18}	16.0	X	181.52692	278.15001	52.27153	9.18683	0.2092554	0.17315962	3.1879020	21	2 5.7	21.5
543240 2013 UK_{18}	16.1	X	150.49021	307.18415	62.55243	10.32374	0.0923663	0.17045288	3.2215620	21	2 17.0	21.1
543241 2013 UD_{21}	17.1	X	132.54113	343.11887	85.27891	4.96521	0.1189239	0.18492364	3.0512264	21	4 7.9	21.7
543242 2013 VJ_{1}	16.3	X	118.09056	34.92789	53.47023	16.94094	0.1927889	0.18333894	3.0687835	21	4 26.5	21.0
543243 2013 VR_{1}	16.6	X	219.34004	245.66633	81.36701	11.07589	0.1049145	0.18900104	3.0071834	21	3 5.5	21.5
543244 2013 VC_{2}	18.4	X	172.71913	252.35311	247.57240	14.55004	0.2178566	0.34579289	2.0102898	21	8 11.2	21.9
543245 2013 VW_{2}	16.0	X	96.63368	165.86602	265.92843	17.91474	0.1512826	0.17412598	3.1760963	21	2 23.9	20.8
543246 2013 VO_{6}	15.6	X	198.68130	258.74380	50.34200	16.60439	0.2132464	0.17670373	3.1451322	21	1 26.2	21.2
543247 2013 VV_{6}	16.2	X	159.58800	230.29213	192.37756	10.40934	0.1032477	0.19140147	2.9819878	21	4 26.2	20.7
543248 2013 VG_{9}	18.1	X	181.10616	208.79347	105.73627	7.59869	0.2479773	0.29913414	2.2142436	21	—	—
543249 2013 VC_{21}	15.8	X	137.70156	121.76941	281.29001	17.72452	0.3063321	0.17726946	3.1384371	21	3 19.4	21.5
543250 2013 VB_{22}	16.6	X	116.12001	47.94784	28.60827	17.09977	0.2600157	0.17802288	3.1295760	21	4 15.4	21.6
543251 2013 VA_{27}	17.0	X	126.69159	257.45148	157.02353	5.26754	0.1454561	0.17765954	3.1338415	21	3 18.1	21.6
543252 2013 VS_{28}	16.2	X	69.83409	254.01411	256.29452	14.63399	0.0993921	0.18183531	3.0856777	21	4 25.5	20.5
543253 2013 VX_{29}	17.2	X	152.20948	21.20411	18.32818	4.45581	0.2056213	0.17959809	3.1112500	21	3 29.4	22.2
543254 2013 VT_{31}	16.0	X	59.47342	265.20837	244.55955	24.42967	0.2554593	0.17399838	3.1776489	21	5 5.2	20.0
543255 2013 WC_{3}	16.7	X	113.14172	190.24783	257.05043	11.71969	0.2336753	0.17798087	3.1300684	21	4 18.6	21.6
543256 2013 WG_{4}	16.4	X	209.57906	303.73716	56.46561	13.27263	0.1785345	0.18975684	2.9991931	21	4 3.5	21.5
543257 2013 WY_{5}	16.3	X	34.81856	216.98806	350.70688	11.23326	0.0612804	0.19345114	2.9608872	21	5 13.1	20.4
543258 2013 WR_{6}	16.4	X	144.91401	4.37713	45.44850	11.99720	0.1760637	0.17993367	3.1073805	21	4 5.3	21.4
543259 2013 WB_{10}	16.2	X	174.12982	350.16827	63.38948	11.44901	0.1150735	0.18801808	3.0176554	21	5 1.6	20.9
543260 2013 WJ_{10}	16.3	X	114.24694	264.96265	176.82104	10.93792	0.1166342	0.17511075	3.1641775	21	4 3.5	20.9
543261 2013 WP_{13}	17.9	X	225.94882	112.33650	174.85614	6.53381	0.1254624	0.29346618	2.2426630	21	—	—
543262 2013 WL_{18}	17.4	X	58.97320	288.77322	115.31724	7.17062	0.1142671	0.27248653	2.3563476	21	—	—
543263 2013 WA_{26}	16.6	X	62.60904	89.53633	37.21798	10.42872	0.1591421	0.17769453	3.1334301	21	3 30.6	20.5
543264 2013 WY_{26}	16.1	X	157.52662	93.53696	271.54586	22.56259	0.3460328	0.17522153	3.1628438	21	2 19.2	22.2
543265 2013 WN_{28}	18.3	X	214.40169	262.20936	63.42725	6.30458	0.1883970	0.30895142	2.1670849	21	2 8.9	21.7
543266 2013 WD_{35}	16.3	X	90.49583	336.90174	101.92479	14.92249	0.0771378	0.17375638	3.1805987	21	2 28.5	20.9
543267 2013 WF_{36}	16.4	X	262.68930	123.38139	143.54294	13.48587	0.0270879	0.17606667	3.1527143	21	2 10.3	20.9
543268 2013 WS_{40}	16.1	X	154.72207	0.34696	61.31998	8.66308	0.0684250	0.18228088	3.0806473	21	4 19.3	20.7
543269 2013 WD_{42}	16.7	X	120.93871	31.43111	47.47878	6.05861	0.1462577	0.17931114	3.1145683	21	4 11.0	21.3
543270 2013 WY_{47}	16.2	X	99.82048	177.59322	281.26271	14.60637	0.2367944	0.17541051	3.1605717	21	4 16.7	21.1
543271 2013 WM_{51}	16.2	X	37.99227	167.57114	322.21471	9.11615	0.1573363	0.16121327	3.3435066	21	2 20.2	20.1
543272 2013 WD_{52}	16.3	X	158.37161	149.93897	301.70958	11.59355	0.0708882	0.19508576	2.9443245	21	5 25.9	20.9
543273 2013 WA_{60}	15.9	X	159.46420	304.13975	137.95765	10.48976	0.0571914	0.19157674	2.9801688	21	5 19.2	20.4
543274 2013 WY_{60}	16.8	X	217.94363	190.81324	149.62025	12.81610	0.0888100	0.18871932	3.0101754	21	3 17.5	21.4
543275 2013 WF_{61}	15.4	X	168.80816	274.34442	87.84766	13.59029	0.0590030	0.17330850	3.1860761	21	2 24.9	20.3
543276 2013 WO_{63}	16.1	X	177.58005	49.25526	288.09307	13.49372	0.2570521	0.17719648	3.1392988	21	2 5.4	21.6
543277 2013 WG_{65}	17.9	X	277.36439	253.42349	201.38935	3.06004	0.1812500	0.23835036	2.5762748	21	10 8.3	20.9
543278 2013 WH_{65}	16.0	X	171.54025	266.80986	114.33010	8.93446	0.1438982	0.18003811	3.1061786	21	3 24.7	21.1
543279 2013 WJ_{65}	16.4	X	204.25694	261.89541	107.20484	9.53857	0.1132443	0.18737663	3.0245384	21	4 9.4	21.3
543280 2013 WP_{68}	16.5	X	168.02894	348.83886	20.29366	6.65963	0.2663875	0.18042701	3.1017135	21	3 11.4	21.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
543281 2013 WT_{69}	16.2	X	167.81917	343.21633	54.78124	10.91616	0.0654697	0.18264377	3.0765653	21	4 6.2	20.9
543282 2013 WA_{72}	16.7	X	329.03111	194.41638	58.49049	9.81864	0.0518651	0.18633588	3.0357900	21	4 15.1	20.8
543283 2013 WX_{72}	18.3	X	245.74219	357.96072	341.78914	2.53695	0.1503622	0.32386867	2.1000200	21	3 24.6	21.3
543284 2013 WQ_{73}	16.1	X	146.59626	10.94638	48.37981	14.35932	0.1713191	0.18128898	3.0918740	21	4 17.2	21.1
543285 2013 WS_{77}	16.0	X	137.85560	184.88036	272.32705	9.27476	0.0749546	0.18968208	2.9999810	21	5 10.3	20.5
543286 2013 WT_{78}	16.1	X	135.16779	18.01222	52.09149	18.34138	0.1979239	0.17917023	3.1162012	21	4 22.8	21.1
543287 2013 WC_{82}	16.1	X	102.53422	31.62171	85.83172	13.39462	0.1389705	0.17907743	3.1172776	21	5 9.4	20.7
543288 2013 WB_{83}	16.1	X	200.97503	256.18873	73.26596	16.58174	0.2271860	0.17666870	3.1455479	21	2 22.3	21.8
543289 2013 WQ_{85}	17.4	X	142.59974	157.27285	237.23701	7.41157	0.0650775	0.29801605	2.2197784	21	2 6.6	20.2
543290 2013 WE_{88}	16.7	X	108.41734	27.32298	80.20870	11.57812	0.2049032	0.17855302	3.1233782	21	5 10.9	21.4
543291 2013 WD_{91}	16.2	X	219.58044	272.82685	61.48409	11.38898	0.0748762	0.17768355	3.1335591	21	3 17.4	21.1
543292 2013 WR_{93}	16.7	X	190.05992	313.51076	58.35907	10.79680	0.2275524	0.18523119	3.0478481	21	3 31.9	22.1
543293 2013 WD_{96}	16.2	X	156.57158	185.14501	258.56201	8.95285	0.0865068	0.19145350	2.9814476	21	5 15.9	20.8
543294 2013 WB_{97}	15.9	X	91.34223	285.48299	222.68232	9.75270	0.0155454	0.18894654	3.0077616	21	5 12.2	20.0
543295 2013 WU_{106}	16.5	X	131.30502	340.24483	67.88702	14.61172	0.2747673	0.17375301	3.1806398	21	4 3.6	21.9
543296 2013 WZ_{109}	16.2	X	200.77003	91.59872	242.94675	7.33615	0.0571699	0.18003496	3.1062148	21	2 16.9	20.9
543297 2013 WK_{111}	16.6	X	138.10191	262.33867	157.94682	11.36556	0.1867215	0.17561061	3.1581704	21	4 11.7	21.7
543298 2013 XL_{1}	16.8	X	142.38674	323.61823	70.94658	11.51948	0.2270803	0.17719311	3.1393386	21	3 22.7	22.1
543299 2013 XT_{1}	16.7	X	109.49034	66.52140	43.70950	13.75726	0.1403467	0.18128427	3.0919275	21	5 4.4	21.3
543300 2013 XJ_{2}	17.1	X	129.38852	311.70134	124.28738	5.86918	0.1687477	0.18188704	3.0850927	21	4 19.6	21.9
543301 2013 XY_{5}	15.9	X	212.45711	73.35368	290.28931	9.28458	0.1195175	0.19003923	2.9962212	21	3 31.8	20.8
543302 2013 XP_{7}	15.9	X	72.93728	226.17418	294.93999	25.68988	0.2224278	0.17297957	3.1901138	21	6 6.5	20.5
543303 2013 XN_{9}	15.9	X	144.53680	135.32061	266.08538	23.52302	0.2531072	0.17509657	3.1643484	21	3 17.3	21.6
543304 2013 XD_{12}	16.0	X	128.46901	342.11446	88.96282	19.20571	0.2144517	0.17550288	3.1594626	21	4 24.3	21.3
543305 2013 XD_{16}	16.6	X	101.04599	252.00236	260.75723	10.40062	0.1926000	0.18607718	3.0386031	21	6 23.6	21.2
543306 2013 XM_{17}	15.9	X	269.17228	85.32569	271.73162	11.91238	0.0216635	0.17899330	3.1182544	21	6 10.4	20.3
543307 2013 XX_{23}	18.1	X	214.08225	131.40272	339.85117	17.44165	0.0645086	0.34640836	2.0079080	21	9 2.8	20.4
543308 2013 XJ_{24}	16.6	X	183.45623	137.67712	268.61433	9.91767	0.0758230	0.18745861	3.0236565	21	4 25.9	21.4
543309 2013 XD_{25}	16.0	X	195.80127	154.05438	249.29634	9.16602	0.0919164	0.19020153	2.9945165	21	5 7.0	20.6
543310 2013 XG_{25}	15.9	X	66.92075	245.62901	265.11869	17.64741	0.1469727	0.17293154	3.1907045	21	4 28.9	20.3
543311 2013 YT	16.2	X	100.73156	242.61042	233.30330	9.03046	0.0431897	0.18691172	3.0295516	21	4 15.2	20.6
543312 2013 YY	16.2	X	169.61950	306.31966	66.28602	10.03532	0.0907954	0.17351224	3.1835815	21	3 12.2	21.2
543313 2013 YP_{3}	16.5	X	152.53412	325.24237	100.99074	14.22288	0.2995010	0.18281130	3.0746854	21	5 9.4	22.1
543314 2013 YU_{12}	16.3	X	100.58985	223.18886	257.75462	11.51282	0.0996681	0.18040798	3.1019316	21	4 29.6	20.8
543315 2013 YY_{14}	15.8	X	148.87654	333.34772	102.64925	19.47128	0.1501155	0.17373735	3.1808310	21	5 12.1	21.1
543316 2013 YB_{20}	17.0	X	258.22752	51.68056	93.62594	8.24683	0.1449121	0.23408292	2.6074915	21	11 24.0	20.3
543317 2013 YK_{25}	18.1	X	178.05050	16.60998	326.95491	0.42239	0.1579404	0.29908802	2.2144712	21	1 26.0	21.0
543318 2013 YO_{36}	16.3	X	245.23974	178.06202	154.89937	10.69222	0.0531563	0.18390488	3.0624844	21	4 10.5	20.8
543319 2013 YE_{38}	20.1	X	213.11752	281.78294	79.63843	34.16784	0.6246867	0.33186090	2.0661666	21	4 10.8	25.6
543320 2013 YT_{44}	15.4	X	56.36050	64.96399	115.23331	12.64478	0.0317131	0.17252752	3.1956838	21	5 14.9	20.0
543321 2013 YG_{45}	17.1	X	21.66398	25.78939	105.45222	7.84183	0.0535872	0.27470970	2.3436174	21	—	—
543322 2013 YU_{46}	16.3	X	164.36255	333.58145	94.46895	21.33558	0.2187664	0.18201791	3.0836137	21	5 18.4	21.8
543323 2013 YC_{89}	15.5	X	330.29514	313.77759	332.30240	8.08214	0.0510324	0.17777825	3.1324463	21	5 25.2	19.9
543324 2013 YT_{90}	15.7	X	331.79096	11.65280	286.07426	10.57973	0.0431804	0.18255593	3.0775521	21	6 14.2	19.9
543325 2013 YU_{106}	18.1	X	221.01556	257.10280	110.69497	3.51671	0.1664184	0.31389181	2.1442861	21	4 9.1	21.2
543326 2013 YL_{107}	16.3	X	130.30669	38.02243	54.92064	9.81536	0.1223832	0.18277147	3.0751321	21	5 4.7	21.0
543327 2013 YV_{111}	16.7	X	20.83291	292.95590	270.79174	6.03292	0.0794107	0.17097765	3.2149667	21	4 21.8	20.9
543328 2013 YV_{115}	16.0	X	30.40904	98.96163	121.89778	16.16264	0.1444368	0.17242789	3.1969146	21	6 8.4	20.0
543329 2013 YN_{117}	18.1	X	325.66549	60.33007	106.10433	5.70068	0.1724160	0.26171715	2.4205530	21	—	—
543330 2013 YD_{120}	15.9	X	222.23048	68.53108	275.10754	6.74731	0.0416014	0.16857788	3.2454056	21	3 24.5	20.8
543331 2013 YV_{141}	15.7	X	260.70720	229.98416	83.02631	12.11486	0.0486640	0.18002441	3.1063362	21	4 8.0	20.4
543332 2013 YY_{143}	15.8	X	154.87087	261.82076	75.65203	6.54767	0.1123875	0.15391461	3.4483883	21	1 16.2	21.0
543333 2013 YN_{149}	15.5	X	98.31563	32.37801	54.31034	16.01732	0.1299890	0.17406249	3.1768686	21	3 30.4	20.2
543334 2013 YC_{151}	16.7	X	119.34786	48.12357	86.99296	16.06260	0.1910710	0.18325716	3.0696963	21	6 20.5	21.5
543335 2014 AX_{2}	16.7	X	139.88806	343.38670	101.67745	10.54345	0.1014495	0.17236250	3.1977231	21	5 6.8	21.7
543336 2014 AA_{7}	16.7	X	236.78010	0.38707	354.38508	2.35555	0.0532060	0.17606760	3.1527032	21	4 24.6	21.4
543337 2014 AJ_{9}	16.1	X	299.36204	10.18064	308.23686	8.30893	0.0771844	0.18267932	3.0761662	21	5 20.6	20.4
543338 2014 AD_{11}	16.1	X	81.61206	8.77414	138.24713	19.63017	0.0396587	0.17008912	3.2261535	21	5 9.7	21.0
543339 2014 AX_{12}	15.6	X	201.17095	246.08816	79.17839	12.07580	0.2228737	0.17663805	3.1459118	21	2 15.2	21.2
543340 2014 AT_{13}	16.4	X	135.63961	14.52273	69.83237	13.68218	0.0674651	0.17213291	3.2005660	21	4 28.3	21.2
543341 2014 AT_{18}	16.0	X	304.97272	218.09465	101.06516	9.40539	0.0798606	0.18649383	3.0340756	21	6 1.0	20.1
543342 2014 AM_{20}	16.4	X	10.98058	226.44747	86.73049	13.96512	0.1986020	0.22491265	2.6778945	21	9 26.5	19.4
543343 2014 AH_{22}	15.9	X	326.05625	348.33903	313.55523	10.52139	0.1324194	0.18729741	3.0253912	21	5 30.5	19.8
543344 2014 AO_{24}	16.1	X	33.66423	312.60031	300.55320	12.94684	0.2247400	0.18373499	3.0643719	21	8 3.9	19.6
543345 2014 AO_{29}	16.0	X	109.00377	255.20458	266.29705	9.98578	0.0390465	0.18460377	3.0547500	21	6 24.2	20.4
543346 2014 AH_{36}	17.1	X	146.12202	348.01879	128.18905	3.08155	0.1637402	0.19201561	2.9756261	21	6 20.6	21.9
543347 2014 AS_{36}	16.0	X	202.83566	242.65964	92.09682	17.61306	0.2328898	0.17508642	3.1644706	21	3 1.4	21.7
543348 2014 AM_{41}	15.9	X	161.50330	276.18792	140.68280	14.29978	0.3062812	0.17585930	3.1551923	21	5 5.1	21.8
543349 2014 AN_{44}	16.8	X	172.62100	143.39271	282.84650	5.32001	0.0975246	0.18211197	3.0825518	21	5 11.7	21.6
543350 2014 AW_{45}	16.1	X	16.24045	116.88563	157.43252	6.04078	0.0296811	0.18695091	3.0291283	21	7 15.7	20.1
543351 2014 AD_{48}	16.6	X	160.33116	292.28028	120.05200	16.85784	0.1174693	0.17036350	3.2226887	21	4 22.9	21.9
543352 2014 AD_{49}	16.4	X	113.06367	193.91452	326.96981	10.96638	0.1602866	0.18171796	3.0870060	21	7 15.1	21.2
543353 2014 AS_{53}	16.0	X	113.25309	33.91921	93.94789	17.63753	0.1887071	0.17538405	3.1608896	21	6 7.2	20.9
543354 2014 AN_{55}	4.1	X	317.66488	307.82999	283.91229	9.43180	0.3853170	0.00236828	55.7417202	21	2 13.5	20.7
543355 2014 AC_{65}	15.9	X	155.96302	313.70520	91.70190	13.10087	0.0866518	0.17410239	3.1763832	21	4 7.3	20.9
543356 2014 BM_{3}	15.9	X	175.41363	287.12723	93.35434	26.80827	0.3046636	0.17572478	3.1568022	21	4 11.9	22.1
543357 2014 BE_{5}	17.5	X	255.79768	199.46843	118.52004	7.55829	0.1742386	0.30300147	2.1953624	21	3 10.2	20.8
543358 2014 BV_{5}	15.9	X	115.07402	180.31067	322.10704	27.19416	0.2093724	0.17598102	3.1537372	21	7 3.6	21.2
543359 2014 BJ_{9}	18.2	X	201.47344	350.10168	164.22134	25.86296	0.0777070	0.34879134	1.9987520	21	10 24.5	21.0
543360 2014 BV_{11}	16.1	X	204.36724	246.39115	131.61409	9.82948	0.1032716	0.17017115	3.2251166	21	4 21.1	21.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
543361 2014 BN_{23}	16.3	X	261.02943	43.08284	316.35903	8.86452	0.1065260	0.18226026	3.0808796	21	5 20.4	21.0
543362 2014 BP_{29}	16.3	X	136.14115	182.14278	284.85485	9.53166	0.1754077	0.17878429	3.1206842	21	5 31.4	21.3
543363 2014 BK_{30}	16.2	X	64.77057	256.23448	310.24367	20.29877	0.1519076	0.17489614	3.1667655	21	7 14.8	20.6
543364 2014 BX_{30}	15.5	X	56.45069	291.34033	305.26225	15.31597	0.1845590	0.18079380	3.0975169	21	8 11.3	19.6
543365 2014 BG_{35}	16.1	X	345.42837	338.14815	311.55269	7.88295	0.0151009	0.18449371	3.0559647	21	6 24.7	20.4
543366 2014 BP_{38}	16.0	X	201.95973	75.98865	335.89000	14.32867	0.1356810	0.17560954	3.1581832	21	5 20.4	21.3
543367 2014 BF_{40}	15.7	X	161.07809	8.35119	109.98409	10.88896	0.0638191	0.18553202	3.0445525	21	7 3.4	20.3
543368 2014 BA_{46}	16.3	X	177.06953	86.62459	326.12545	9.98912	0.0820536	0.17685417	3.1433483	21	4 26.5	21.2
543369 2014 BK_{49}	16.5	X	135.09832	358.27989	94.28949	16.49376	0.1625457	0.17662664	3.1460473	21	5 17.1	21.6
543370 2014 BW_{49}	16.6	X	187.95843	305.12699	100.77220	10.90044	0.1256066	0.18213630	3.0822773	21	5 7.7	21.6
543371 2014 BZ_{50}	15.9	X	43.86693	113.49122	93.72760	18.36738	0.1262681	0.17721930	3.1390293	21	6 9.0	19.8
543372 2014 BO_{52}	16.7	X	119.12932	67.07019	63.15380	6.57640	0.0746313	0.18048483	3.1010511	21	6 1.2	21.2
543373 2014 BJ_{56}	16.1	X	132.78538	13.62755	115.80454	28.84981	0.1213639	0.18056549	3.1001275	21	6 23.9	21.1
543374 2014 BZ_{58}	18.2	X	141.32347	190.81478	268.12340	2.56786	0.0884138	0.30474380	2.1869867	21	5 12.0	20.9
543375 2014 BX_{64}	5.8	X	102.50531	71.82822	323.08492	11.19077	0.0490668	0.00366987	41.6264276	21	2 11.2	22.0
543376 2014 BE_{70}	6.1	X	358.34750	287.49503	239.65106	25.43882	0.6186458	0.00094830	102.6057124	21	2 17.1	22.1
543377 2014 BF_{70}	9.6	X	358.13498	280.15141	307.37901	11.35787	0.8707013	0.00116678	89.3600104	21	3 12.5	21.1
543378 2014 BS_{70}	16.6	X	341.38801	55.47028	207.59521	4.21323	0.1141689	0.16990331	3.2285052	21	5 8.7	20.5
543379 2014 BR_{71}	16.4	X	277.74239	49.59610	259.18687	15.77275	0.1060899	0.18488342	3.0516689	21	4 2.3	21.2
543380 2014 BQ_{73}	16.5	X	159.27646	125.73047	339.57791	8.36744	0.0855126	0.17987760	3.1080261	21	6 15.8	21.3
543381 2014 CS_{11}	15.6	X	310.53001	194.31575	121.44342	6.16140	0.1203528	0.17670994	3.1450586	21	5 29.9	19.7
543382 2014 CB_{17}	16.1	X	91.53982	8.80649	162.63131	11.43404	0.1467244	0.17332010	3.1859339	21	6 30.4	20.9
543383 2014 CL_{25}	15.9	X	167.57505	84.98447	322.13256	8.78878	0.0470832	0.15763793	3.3938729	21	4 9.9	21.0
543384 2014 DY_{4}	16.4	X	12.46682	105.29084	142.60502	19.61562	0.0953554	0.17364606	3.1819457	21	6 11.8	20.8
543385 2014 DO_{6}	17.1	X	186.22689	147.07215	114.74103	6.93760	0.2628972	0.23376965	2.6098205	21	—	—
543386 2014 DD_{8}	16.1	X	192.78138	270.96211	138.36041	16.28136	0.0413260	0.17726527	3.1384866	21	5 18.4	21.0
543387 2014 DM_{13}	16.5	X	346.99714	179.99723	105.76462	10.43399	0.0459464	0.17479488	3.1679884	21	6 20.4	20.7
543388 2014 DM_{15}	16.2	X	116.11237	85.81570	20.90169	9.73077	0.0186442	0.15768269	3.3932305	21	4 22.6	21.1
543389 2014 DT_{25}	16.0	X	178.71493	77.51367	2.04748	19.31322	0.1751316	0.17586848	3.1550824	21	6 1.3	21.6
543390 2014 DT_{27}	16.8	X	89.12765	208.57450	265.49915	1.56518	0.1798815	0.15979889	3.3632065	21	4 21.8	21.5
543391 2014 DE_{30}	16.8	X	97.42453	188.29260	330.51921	8.64336	0.0306820	0.17461030	3.1702205	21	6 4.2	21.5
543392 2014 DT_{32}	17.5	X	95.28858	324.71265	119.03799	6.99058	0.0841007	0.27876814	2.3208156	21	2 19.9	20.0
543393 2014 DL_{38}	17.8	X	17.10367	329.00729	260.17769	5.58414	0.1517423	0.29546202	2.2325521	21	5 9.9	19.3
543394 2014 DX_{47}	16.9	X	213.37157	302.85621	357.61204	9.61923	0.1034907	0.25502103	2.4627409	21	1 13.9	20.7
543395 2014 DG_{49}	15.7	X	114.22076	202.37713	349.03624	8.92955	0.0121964	0.18128407	3.0919297	21	8 7.4	20.1
543396 2014 DA_{56}	14.0	X	345.96810	280.48120	127.83872	4.44886	0.0755451	0.08257407	5.2228425	21	11 7.9	20.5
543397 2014 DQ_{60}	14.0	X	303.09408	297.18150	149.07814	8.25781	0.0519108	0.08061227	5.3072385	21	10 30.1	20.9
543398 2014 DD_{72}	17.8	X	301.53555	177.25652	137.40197	7.16626	0.1547794	0.29216223	2.2493308	21	5 2.6	20.5
543399 2014 DG_{77}	18.2	X	149.30817	326.51325	137.16170	7.36463	0.1026876	0.30246551	2.1979551	21	6 1.6	21.2
543400 2014 DV_{80}	16.5	X	92.19851	257.71583	281.79673	8.13683	0.0472464	0.17747380	3.1360276	21	6 27.6	20.8
543401 2014 DF_{97}	18.7	X	163.72371	13.10799	66.08746	0.79698	0.0804932	0.29880778	2.2158556	21	5 12.3	21.6
543402 2014 DF_{100}	17.5	X	202.65696	65.70797	282.93974	3.30217	0.0666740	0.28730630	2.2746048	21	2 22.8	20.6
543403 2014 DB_{102}	16.5	X	332.11797	333.33341	315.28256	4.00131	0.1350176	0.17321116	3.1872696	21	5 23.6	20.5
543404 2014 DO_{117}	16.2	X	71.79860	103.45925	89.54300	6.57448	0.0699145	0.16873730	3.2433613	21	6 21.7	20.7
543405 2014 DG_{122}	17.6	X	160.40933	32.28548	218.32223	1.63469	0.0776069	0.22230154	2.6988230	21	12 17.5	21.6
543406 2014 DN_{126}	15.8	X	60.18805	296.58281	327.07229	9.38266	0.0657889	0.19083955	2.9878386	21	9 4.2	19.8
543407 2014 DJ_{131}	15.2	X	14.23694	74.95728	156.62269	16.66874	0.0935312	0.15983557	3.3626920	21	5 25.2	19.8
543408 2014 DU_{134}	16.4	X	326.08670	231.83226	32.34638	6.24002	0.0730693	0.15390210	3.4485751	21	4 22.9	21.0
543409 2014 DS_{142}	15.5	X	41.58991	192.76288	80.15597	11.68482	0.0999218	0.18210412	3.0826404	21	9 1.9	19.7
543410 2014 ES_{1}	17.8	X	349.08197	202.08193	27.71125	6.39138	0.1573453	0.28322348	2.2964124	21	3 15.7	20.0
543411 2014 EA_{13}	18.0	X	189.68475	34.12075	13.49286	6.20959	0.1812593	0.30276275	2.1965163	21	4 29.6	21.4
543412 2014 EJ_{33}	17.4	X	255.98207	202.02245	115.45126	7.36498	0.1393688	0.27851500	2.3222216	21	3 15.6	20.9
543413 2014 EO_{44}	15.9	X	54.26633	141.05222	128.43949	10.78015	0.1343832	0.18697348	3.0288845	21	9 18.8	20.0
543414 2014 EH_{73}	15.0	X	277.93986	51.11974	264.01870	11.07916	0.1329376	0.16113550	3.3445824	21	4 11.2	20.1
543415 2014 EQ_{74}	15.6	X	112.15969	88.56032	278.19652	13.45181	0.1979250	0.12418881	3.9787599	21	1 18.7	21.4
543416 2014 EF_{85}	17.9	X	291.95224	13.64570	272.66296	4.05679	0.1369266	0.28112899	2.3078042	21	3 9.4	20.9
543417 2014 EL_{111}	16.3	X	3.59715	344.37411	284.18122	9.69465	0.0272539	0.17554877	3.1589120	21	6 21.5	20.6
543418 2014 EZ_{116}	18.0	X	166.53469	107.81798	295.40338	5.17922	0.1064940	0.28907259	2.2653298	21	3 26.8	21.3
543419 2014 EU_{145}	16.4	X	99.49825	275.73053	291.53059	5.41075	0.1681793	0.18185482	3.0854570	21	8 24.6	21.0
543420 2014 EE_{184}	16.9	X	165.95522	75.09522	258.86477	5.57470	0.2398151	0.25446200	2.4663465	21	1 15.6	21.0
543421 2014 EP_{210}	16.0	X	38.83928	57.93680	174.93376	16.09750	0.0216392	0.17279090	3.1924355	21	6 22.7	20.7
543422 2014 EX_{249}	16.5	X	276.60407	120.52174	199.51908	9.20569	0.0341032	0.15683932	3.4053839	21	5 4.5	21.4
543423 2014 FV_{10}	17.3	X	197.93884	6.67961	359.63208	7.57392	0.2400514	0.28050120	2.3112463	21	3 19.3	21.1
543424 2014 FG_{42}	16.3	X	52.90827	217.75721	7.79920	10.97184	0.0489801	0.17705403	3.1409824	21	7 6.9	20.7
543425 2014 FO_{45}	17.8	X	0.87879	138.03752	87.43656	6.67724	0.0547576	0.28754146	2.2733644	21	4 12.2	20.3
543426 2014 FP_{68}	16.2	X	190.74208	49.42224	155.74575	13.69041	0.0736843	0.20544054	2.8445394	21	11 25.2	20.7
543427 2014 GB_{11}	17.7	X	270.55934	301.81669	349.16589	6.65063	0.1157205	0.27169459	2.3609243	21	2 25.7	20.8
543428 2014 GB_{24}	18.1	X	53.15248	6.10369	236.08078	5.57125	0.1429957	0.30539596	2.1838720	21	8 14.6	20.3
543429 2014 GZ_{31}	18.3	X	7.48819	120.96158	156.35539	6.70128	0.1046738	0.29737827	2.2229510	21	7 10.5	20.3
543430 2014 GA_{33}	16.6	X	231.00751	343.92855	299.69253	4.29721	0.2211786	0.24170538	2.5523790	21	1 9.6	20.9
543431 2014 GR_{39}	17.4	X	271.21636	233.60453	63.49177	6.40300	0.2323854	0.26809511	2.3820093	21	2 26.2	21.2
543432 2014 GL_{43}	18.0	X	335.69801	123.06919	180.05802	5.57802	0.1988613	0.29225416	2.2488591	21	6 6.5	19.7
543433 2014 GY_{43}	17.6	X	317.36406	203.38093	103.28482	9.32603	0.1563209	0.29318327	2.2441055	21	5 15.8	20.0
543434 2014 GB_{52}	17.2	X	178.60443	355.87436	270.38936	8.59130	0.2055022	0.22081041	2.7109594	21	—	—
543435 2014 GC_{54}	7.0	X	19.32487	132.07348	67.35225	20.16144	0.2569451	0.00400323	39.2822087	21	5 15.3	21.8
543436 2014 GW_{62}	17.7	X	196.30563	1.42854	7.85841	7.49449	0.0703129	0.26744455	2.3858706	21	3 19.8	20.9
543437 2014 GC_{66}	18.4	X	355.68575	286.95564	18.60574	7.57850	0.1800938	0.29904542	2.2146815	21	8 10.1	19.9
543438 2014 HB	17.5	X	7.54927	231.35461	74.40183	7.17324	0.2141863	0.30282109	2.1962341	21	9 17.9	19.0
543439 2014 HP	17.3	X	27.80807	208.68983	54.40813	4.53813	0.1366593	0.29922043	2.2138178	21	8 4.6	19.2
543440 2014 HE_{2}	18.3	X	351.34147	221.61303	70.00216	3.18090	0.1572702	0.28982812	2.2613912	21	6 29.1	19.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
543441 2014 HD_{32}	17.3	X	209.04591	352.04542	203.02106	8.38965	0.1327100	0.21301160	2.7767315	21	11 25.8	21.5
543442 2014 HV_{124}	16.9	X	103.10168	339.48622	129.89665	7.88598	0.0602710	0.27643306	2.3338668	21	4 7.5	19.8
543443 2014 HU_{131}	15.6	X	323.27971	60.27496	170.97138	3.01108	0.1557702	0.12337439	3.9962506	21	3 4.1	20.9
543444 2014 HP_{152}	17.3	X	154.18601	276.14508	143.07520	7.19088	0.1938132	0.28444049	2.2898574	21	4 17.5	20.8
543445 2014 HM_{162}	18.3	X	263.38030	250.29665	132.86858	5.94262	0.1341136	0.30044191	2.2078135	21	6 18.8	21.0
543446 2014 HJ_{163}	17.6	X	193.44250	294.62163	350.06339	8.46893	0.1891095	0.23613987	2.5923273	21	—	—
543447 2014 HJ_{166}	15.8	X	201.37110	32.94683	57.90658	14.76464	0.1702548	0.17921606	3.1156698	21	7 9.7	21.1
543448 2014 HH_{172}	18.1	X	8.19814	154.65842	151.09450	5.75087	0.1500471	0.30310755	2.1948502	21	9 5.2	19.5
543449 2014 HC_{173}	18.5	X	11.79731	166.57678	119.04454	6.83412	0.0866471	0.29985232	2.2107066	21	8 2.4	20.5
543450 2014 HS_{173}	17.5	X	176.23733	68.87871	239.87400	11.55947	0.2673419	0.22793411	2.6541767	21	—	—
543451 2014 HS_{179}	17.8	X	298.47343	315.90173	36.69281	8.86235	0.1763469	0.29584276	2.2306363	21	6 16.2	20.2
543452 2014 HN_{189}	17.7	X	36.26542	117.50641	90.67689	10.00616	0.1291949	0.28242377	2.3007454	21	5 21.5	19.8
543453 2014 HX_{190}	15.6	X	274.25990	303.31984	335.92865	8.73169	0.1782149	0.12561857	3.9485122	21	2 27.1	21.4
543454 2014 HZ_{199}	5.0	X	68.83887	84.15727	57.08405	27.87633	0.1526511	0.00348251	43.1063221	21	5 10.3	21.2
543455 2014 HU_{202}	17.6	X	317.14930	153.92100	110.98634	7.72223	0.1142184	0.27036981	2.3686301	21	3 25.5	20.5
543456 2014 HK_{211}	17.2	X	154.97316	316.56541	87.00375	9.87967	0.1856051	0.26913075	2.3758946	21	4 1.4	21.0
543457 2014 JZ	18.3	X	28.01873	84.03246	176.94747	6.84541	0.1290401	0.29567285	2.2314907	21	7 27.2	20.3
543458 2014 JB_{3}	18.2	X	23.24901	216.12026	55.08177	1.96685	0.1574134	0.30172704	2.2015399	21	8 11.1	19.8
543459 2014 JH_{3}	18.0	X	35.52967	210.73228	55.67515	7.42190	0.1169174	0.30129302	2.2036536	21	8 24.7	20.2
543460 2014 JN_{18}	16.3	X	43.48153	211.84288	69.05530	3.63079	0.1964552	0.17538680	3.1608564	21	9 24.8	20.3
543461 2014 JG_{29}	16.9	X	208.70210	113.04844	209.81633	11.25076	0.2315055	0.23809984	2.5780816	21	2 4.1	21.7
543462 2014 JZ_{43}	17.6	X	310.31642	153.93579	154.92621	5.28529	0.2129281	0.27575300	2.3377024	21	4 27.8	20.2
543463 2014 JT_{48}	16.7	X	200.08284	86.29445	238.82109	3.97896	0.2831152	0.24063514	2.5599414	21	2 3.2	21.4
543464 2014 JK_{59}	17.8	X	228.11627	225.35964	119.56646	3.82842	0.0847570	0.26619199	2.3933492	21	3 24.8	21.2
543465 2014 JG_{65}	17.2	X	172.37474	211.86894	107.34532	4.94023	0.1703373	0.23040935	2.6351337	21	1 2.8	21.3
543466 2014 JT_{65}	18.5	X	337.78343	204.06415	97.72464	7.40979	0.1424700	0.28930482	2.2641174	21	6 16.8	20.2
543467 2014 JJ_{68}	18.2	X	178.33750	336.57797	118.01644	6.44668	0.0573789	0.29281878	2.2459673	21	6 21.1	21.1
543468 2014 JX_{70}	18.3	X	12.34101	226.03068	29.14027	3.67813	0.0628653	0.28819316	2.2699360	21	6 12.7	20.6
543469 2014 JC_{91}	16.7	X	232.67759	266.66583	53.31129	9.97174	0.1281625	0.24111871	2.5565175	21	3 2.6	20.8
543470 2014 JN_{93}	17.1	X	170.58137	280.35885	59.95413	13.38700	0.2834014	0.23244267	2.6197438	21	2 6.7	21.9
543471 2014 JU_{99}	17.6	X	147.62236	156.00769	237.16079	8.49984	0.1705928	0.25346485	2.4728108	21	3 2.6	21.5
543472 2014 KA_{8}	18.5	X	322.34806	301.76456	3.80345	2.65129	0.1646783	0.28598570	2.2816017	21	5 17.9	20.6
543473 2014 KS_{19}	18.1	X	348.00185	204.35394	85.72716	6.77931	0.2157563	0.28696141	2.2764270	21	6 12.2	19.4
543474 2014 KB_{21}	17.0	X	194.29429	260.32185	50.66228	29.10400	0.3529452	0.23377211	2.6098021	21	1 22.8	22.4
543475 2014 KU_{29}	18.3	X	279.13791	287.14029	86.76621	7.52726	0.1038574	0.29681770	2.2257490	21	7 2.3	20.8
543476 2014 KR_{32}	16.9	X	129.79149	268.07367	96.48945	7.18808	0.2095531	0.22692517	2.6620381	21	1 20.5	20.7
543477 2014 KP_{33}	17.1	X	275.19020	236.54381	104.40289	7.87015	0.1529847	0.27658476	2.3330133	21	5 6.2	20.3
543478 2014 KW_{44}	16.5	X	187.31263	250.28708	91.19029	12.77645	0.3491737	0.23711881	2.5851875	21	2 21.0	21.5
543479 2014 KN_{48}	15.2	X	325.54346	5.81142	221.79172	11.27564	0.0371363	0.12579871	3.9447419	21	3 13.2	20.8
543480 2014 KB_{49}	18.0	X	269.39824	160.52791	232.37648	6.63535	0.1016381	0.30273716	2.1966400	21	7 15.2	20.5
543481 2014 KQ_{49}	17.9	X	303.40658	208.72399	105.83680	2.42071	0.1295016	0.28111139	2.3079005	21	5 8.3	20.4
543482 2014 KE_{59}	18.0	X	37.07415	68.17789	115.21092	7.84368	0.0564583	0.27007508	2.3703531	21	4 12.8	20.7
543483 2014 KJ_{61}	16.7	X	214.81851	305.52639	9.33237	12.38046	0.1876361	0.24140392	2.5545035	21	2 7.0	21.1
543484 2014 KQ_{70}	18.3	X	51.17392	118.74269	130.67681	5.52892	0.0985754	0.29784530	2.2206267	21	8 17.7	20.5
543485 2014 KD_{71}	18.1	X	126.93057	273.79838	183.32140	6.24628	0.0576583	0.26963697	2.3729200	21	4 21.1	21.1
543486 2014 KQ_{71}	17.9	X	105.08384	7.94296	130.14958	6.01406	0.1467665	0.28111389	2.3078869	21	6 1.4	20.9
543487 2014 KX_{72}	18.2	X	281.24183	243.89725	114.88051	5.94757	0.1899923	0.28179208	2.3041824	21	5 31.1	21.1
543488 2014 KC_{86}	16.0	X	230.88166	289.54257	261.68701	23.87436	0.1693191	0.21435304	2.7651347	21	12 9.7	20.1
543489 2014 KM_{86}	18.1	X	21.42453	8.85740	250.38008	9.02583	0.1128716	0.28922141	2.2645526	21	7 8.6	20.2
543490 2014 KV_{95}	18.1	X	115.79951	57.86654	80.38676	7.32560	0.0599653	0.28408312	2.2917774	21	6 1.9	20.9
543491 2014 KV_{104}	16.9	X	149.45644	242.87291	157.30631	10.62268	0.1543038	0.23150162	2.6268384	21	3 19.8	20.8
543492 2014 KV_{110}	18.6	X	32.77577	128.31730	146.97578	5.57147	0.0282422	0.30185856	2.2009004	21	8 15.9	20.7
543493 2014 LK_{10}	16.9	X	134.55516	135.08530	275.75875	9.33506	0.0475689	0.26054868	2.4277845	21	2 21.1	20.2
543494 2014 LL_{11}	17.7	X	39.08858	0.88223	252.37277	5.91396	0.1760580	0.28428901	2.2906707	21	8 11.5	20.0
543495 2014 LQ_{13}	17.8	X	324.07480	321.16778	331.15213	0.78180	0.1828146	0.26626832	2.3928917	21	4 29.8	20.2
543496 2014 LE_{15}	17.3	X	262.12160	102.84225	241.28963	1.34410	0.2178866	0.25431711	2.4672832	21	4 16.7	20.9
543497 2014 LN_{16}	17.0	X	221.29873	12.33966	295.58780	11.49287	0.1579014	0.22769266	2.6560527	21	1 31.1	21.3
543498 2014 LU_{16}	18.0	X	296.97742	243.81680	92.66685	7.10998	0.1541579	0.28133039	2.3067027	21	5 26.9	20.6
543499 2014 LY_{18}	18.2	X	86.65950	170.76307	61.60381	3.65257	0.0576057	0.31065604	2.1591502	21	9 10.4	20.7
543500 2014 LD_{20}	17.1	X	180.63686	218.30454	147.96273	5.74559	0.2311189	0.24239674	2.5475235	21	3 9.6	21.3
543501 2014 LY_{25}	18.1	X	245.39633	156.58181	183.94933	18.84121	0.1575006	0.39855953	1.8286921	21	3 16.3	20.5
543502 2014 LU_{26}	16.9	X	310.95186	162.17769	115.33710	25.54920	0.1699358	0.27060501	2.3672575	21	4 1.9	20.5
543503 2014 LJ_{28}	16.6	X	213.84769	244.05687	54.88136	13.54968	0.2601389	0.22362236	2.6881854	21	1 18.8	21.6
543504 2014 LJ_{29}	16.7	X	39.35936	235.30386	275.54682	13.46748	0.0798289	0.23427628	2.6060566	21	2 24.3	20.1
543505 2014 LO_{29}	17.1	X	217.86943	182.05907	148.44484	4.93126	0.1194966	0.23232745	2.6206098	21	2 25.6	21.0
543506 2014 LP_{29}	16.7	X	244.08025	17.24574	283.95331	12.81976	0.0869113	0.23027000	2.6361967	21	2 12.7	20.8
543507 2014 LU_{31}	17.0	X	200.28017	47.83659	326.72393	12.05396	0.2034392	0.22932135	2.6434619	21	3 29.5	21.6
543508 2014 MG_{1}	18.2	X	8.74043	44.08167	239.13906	4.82341	0.2697691	0.29155923	2.2524311	21	8 6.4	19.1
543509 2014 MH_{2}	16.7	X	293.10595	338.29322	273.11999	6.83456	0.1270551	0.25537518	2.4604635	21	1 30.1	20.2
543510 2014 MQ_{6}	17.4	X	349.98815	143.10367	88.29536	5.30579	0.1052565	0.26742042	2.3860141	21	3 30.9	19.9
543511 2014 MY_{7}	17.8	X	35.27054	350.11197	258.53283	2.16335	0.1783347	0.28247383	2.3004735	21	7 29.9	19.7
543512 2014 MU_{9}	17.9	X	91.29255	296.01347	183.10454	6.09490	0.0507495	0.26360563	2.4089785	21	3 31.9	20.7
543513 2014 MA_{11}	16.9	X	264.22432	25.21170	268.75077	14.17887	0.0794728	0.24477854	2.5309709	21	2 21.7	20.9
543514 2014 MW_{11}	17.5	X	148.64332	116.95318	235.85283	13.99935	0.2287474	0.22621908	2.6675745	21	1 22.4	22.0
543515 2014 MF_{12}	18.2	X	263.86123	252.19349	91.84582	8.23496	0.1995198	0.26922519	2.3753389	21	4 23.2	21.8
543516 2014 MF_{13}	17.7	X	49.95466	258.80412	355.64245	5.75299	0.1178485	0.29228699	2.2486907	21	8 27.3	19.9
543517 2014 MQ_{13}	16.8	X	193.83958	217.15766	119.91428	13.95375	0.2061517	0.22639669	2.6661792	21	2 15.3	21.3
543518 2014 MG_{18}	17.1	X	180.61250	182.17616	168.55217	6.74482	0.3122454	0.23876990	2.5732560	21	2 21.3	21.8
543519 2014 ME_{20}	17.8	X	278.03198	171.51594	155.64059	2.99279	0.1981342	0.25488943	2.4635885	21	4 14.8	21.4
543520 2014 MW_{21}	18.4	X	343.60124	212.29205	85.62673	6.04239	0.1598001	0.28439217	2.2901168	21	6 21.2	20.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
543521 2014 MD_{22}	17.0	X	160.87252	218.99205	109.41607	5.43491	0.1024775	0.22595766	2.6696316	21	—	—
543522 2014 MT_{25}	17.6	X	268.27101	245.73369	102.42036	6.94452	0.1490885	0.26115213	2.4240431	21	5 8.7	21.0
543523 2014 MD_{27}	18.6	X	337.44750	193.05156	131.15778	26.09186	0.1570927	0.43211163	1.7327613	21	8 2.1	18.4
543524 2014 MM_{30}	16.7	X	220.67973	230.81606	100.48965	6.36655	0.2564765	0.24345339	2.5401469	21	2 27.9	21.2
543525 2014 MW_{31}	18.0	X	42.45549	137.46982	114.53702	6.77141	0.0895953	0.28218349	2.3020512	21	8 4.6	20.3
543526 2014 MU_{35}	18.1	X	343.58635	199.39918	90.44697	3.46800	0.1660547	0.28169172	2.3047297	21	6 6.8	19.7
543527 2014 MR_{38}	17.9	X	356.61055	335.71503	317.11041	6.71535	0.1038631	0.27416909	2.3466972	21	7 15.3	20.0
543528 2014 MX_{38}	16.6	X	217.01513	217.38300	104.27884	14.07262	0.1762744	0.22920171	2.6443818	21	2 16.8	21.1
543529 2014 MP_{42}	17.8	X	256.65479	73.22455	285.54056	14.84898	0.1840048	0.25376755	2.4708440	21	4 28.9	21.9
543530 2014 MS_{43}	17.7	X	288.16351	228.18225	95.17254	6.31622	0.2060492	0.26222573	2.4174222	21	4 21.6	21.0
543531 2014 MZ_{43}	17.1	X	200.11502	311.63703	67.32896	17.22683	0.2155209	0.24530362	2.5273579	21	4 15.7	21.6
543532 2014 MP_{47}	18.0	X	197.45569	268.14933	206.90278	6.05708	0.0809836	0.30431006	2.1890642	21	8 10.6	21.0
543533 2014 MS_{49}	17.8	X	300.22617	251.24625	61.84167	3.26853	0.1997261	0.26431988	2.4046369	21	4 21.5	20.8
543534 2014 MV_{50}	17.5	X	250.41281	135.69736	235.51465	8.13676	0.1895884	0.25440184	2.4667353	21	5 12.9	21.3
543535 2014 MS_{52}	17.7	X	118.69543	43.14370	145.44273	23.81761	0.1849352	0.28735986	2.2743221	21	8 30.6	21.1
543536 2014 MY_{64}	17.9	X	342.87216	354.97152	287.22488	6.24042	0.1087643	0.28331580	2.2959135	21	5 28.9	20.0
543537 2014 MC_{66}	18.2	X	339.91053	15.61749	285.69721	5.36284	0.1865290	0.28704205	2.2760006	21	6 14.9	20.0
543538 2014 MP_{66}	17.3	X	179.61818	89.61884	225.75195	11.86433	0.1971491	0.21560192	2.7544463	21	1 6.8	22.0
543539 2014 MT_{66}	17.1	X	161.05360	240.11110	150.80776	13.06556	0.2745243	0.22677572	2.6632075	21	3 29.3	21.8
543540 2014 MN_{69}	16.2	X	211.21188	78.46674	271.58372	22.57097	0.0951399	0.23943404	2.5684953	21	3 1.2	20.7
543541 2014 MA_{72}	16.9	X	127.71914	185.94593	253.63865	12.00225	0.1386758	0.23104396	2.6303061	21	4 7.7	20.9
543542 2014 MG_{73}	16.7	X	109.51036	85.79493	291.70740	7.83613	0.1458380	0.20418880	2.8561528	21	1 7.8	20.4
543543 2014 MP_{73}	16.5	X	130.47074	353.00353	87.86795	15.13893	0.0808843	0.23712406	2.5851494	21	4 17.2	20.4
543544 2014 MQ_{73}	17.6	X	320.40890	311.32135	339.76167	6.69543	0.1085560	0.26765556	2.3846165	21	5 1.3	20.4
543545 2014 MS_{73}	17.7	X	90.21700	224.17996	323.74076	6.28496	0.0508743	0.27189903	2.3597407	21	7 7.4	20.5
543546 2014 MU_{74}	16.8	X	139.17029	98.09321	298.63023	23.63162	0.1687246	0.22469813	2.6795986	21	2 22.6	21.2
543547 2014 MW_{76}	17.1	X	151.91144	281.94900	99.15025	10.19893	0.1789285	0.21801104	2.7341167	21	3 5.2	21.5
543548 2014 MO_{77}	17.6	X	141.97162	88.15238	298.92607	10.44158	0.2023335	0.21835723	2.7312262	21	2 25.1	21.9
543549 2014 MF_{78}	16.7	X	176.08773	75.14337	266.95979	12.02323	0.1633441	0.21741147	2.7391412	21	1 31.1	21.3
543550 2014 MS_{78}	16.9	X	252.77860	75.95562	264.71038	15.30733	0.2687847	0.23297857	2.6157249	21	3 25.9	21.8
543551 2014 MP_{82}	17.5	X	209.38697	290.53815	20.83127	11.64520	0.1940059	0.23851819	2.5750661	21	1 29.3	22.0
543552 2014 NJ	17.1	X	151.23572	119.20151	235.22927	11.71555	0.2873158	0.22246747	2.6974808	21	2 1.2	21.8
543553 2014 ND_{2}	16.8	X	138.06882	107.29379	251.70112	11.45423	0.0995526	0.21011359	2.8022053	21	1 9.6	20.9
543554 2014 NT_{2}	16.6	X	187.34947	146.46184	220.28630	33.77272	0.3844213	0.24387610	2.5372108	21	3 12.4	22.0
543555 2014 NF_{4}	18.6	X	355.61299	164.87887	113.76241	3.45221	0.1244893	0.27788954	2.3257048	21	6 18.4	20.5
543556 2014 NL_{4}	18.0	X	180.94274	286.28222	107.81891	6.37168	0.2470277	0.24270783	2.5453462	21	4 14.9	22.5
543557 2014 NG_{8}	17.7	X	59.93924	114.23950	127.35622	4.93609	0.1247335	0.28977663	2.2616591	21	8 24.2	20.1
543558 2014 NB_{11}	18.4	X	23.75120	172.26172	94.18966	6.83463	0.2084516	0.28540546	2.2846931	21	8 12.2	20.1
543559 2014 NL_{13}	18.4	X	25.95958	163.58699	97.27111	2.71802	0.1444208	0.28401342	2.2921523	21	7 26.6	20.1
543560 2014 NB_{16}	17.1	X	356.69288	309.16712	266.34866	13.69328	0.0891093	0.24690216	2.5164374	21	3 12.8	20.4
543561 2014 NF_{16}	17.2	X	184.92176	88.90916	271.76552	11.61567	0.1864835	0.22644034	2.6658366	21	2 27.7	21.8
543562 2014 NX_{18}	17.0	X	152.95805	151.34673	246.61400	12.73596	0.1215311	0.23078758	2.6322538	21	3 10.0	21.2
543563 2014 NE_{19}	17.1	X	146.05367	213.20091	186.65111	14.55638	0.1409648	0.22906805	2.6454103	21	3 11.9	21.1
543564 2014 NE_{20}	16.4	X	93.45195	188.46247	269.38841	17.52370	0.1199470	0.23042307	2.6350290	21	3 10.6	20.2
543565 2014 NM_{20}	17.1	X	249.81568	120.72425	194.89503	12.71954	0.1035605	0.24530301	2.5273621	21	3 8.1	20.8
543566 2014 NT_{23}	17.9	X	133.32590	11.88241	159.72242	6.89032	0.0344625	0.28737842	2.2742242	21	8 9.3	20.7
543567 2014 NQ_{30}	17.5	X	263.75743	60.28971	232.70339	4.27906	0.0565991	0.24134131	2.5549453	21	2 28.3	21.1
543568 2014 NS_{32}	16.1	X	160.67620	71.85357	283.97262	13.98852	0.0815519	0.22427331	2.6829813	21	1 25.8	20.1
543569 2014 NZ_{33}	18.0	X	298.20852	192.82905	134.79357	3.33867	0.2073185	0.26673843	2.3900794	21	5 8.2	20.9
543570 2014 NT_{35}	17.6	X	322.80884	266.81842	27.31880	11.01917	0.1678356	0.26322913	2.4112750	21	5 1.8	20.2
543571 2014 NW_{40}	16.5	X	136.88388	94.09856	243.86379	13.66612	0.1674902	0.20255223	2.8715168	21	—	—
543572 2014 ND_{45}	16.5	X	187.86166	119.01424	250.35495	12.99877	0.0960089	0.23240556	2.6200226	21	3 8.5	20.7
543573 2014 NA_{50}	18.4	X	54.12870	286.14776	305.83637	2.03329	0.2024467	0.28345053	2.2951859	21	8 12.6	20.8
543574 2014 NO_{50}	16.7	X	138.41682	262.57559	121.78598	14.22142	0.1777786	0.22248293	2.6973559	21	2 21.4	20.8
543575 2014 NX_{54}	17.6	X	171.64226	263.12605	83.20368	9.01221	0.2341241	0.21684870	2.7438783	21	2 11.8	22.3
543576 2014 NQ_{55}	17.5	X	61.75037	172.95417	71.37453	7.53165	0.1742842	0.28642713	2.2792569	21	9 11.9	20.3
543577 2014 NP_{56}	16.7	X	199.38592	270.93112	57.25058	7.02115	0.2174493	0.22186961	2.7023245	21	2 11.1	21.4
543578 2014 NN_{58}	17.5	X	143.22907	59.57293	331.78553	26.90228	0.3007295	0.21545147	2.7557284	21	3 8.4	22.3
543579 2014 NU_{58}	17.3	X	167.12752	215.35633	135.44682	16.52325	0.2660572	0.21579759	2.7527810	21	2 13.3	22.1
543580 2014 NS_{62}	17.7	X	42.45623	286.63628	310.21464	5.98600	0.1900039	0.28448847	2.2895999	21	7 28.4	19.6
543581 2014 NL_{64}	17.3	X	251.53021	5.99930	338.96983	6.69914	0.1337030	0.25119068	2.4877135	21	4 12.8	21.1
543582 2014 NV_{67}	17.7	X	42.62228	127.73184	94.04478	7.10201	0.0691174	0.26533663	2.3984900	21	6 15.8	20.1
543583 2014 NX_{67}	17.2	X	165.56054	125.83640	265.86647	13.21399	0.1821965	0.23069510	2.6329572	21	3 18.5	21.7
543584 2014 NK_{68}	17.3	X	211.80631	189.42180	131.10362	3.84578	0.1376033	0.22222957	2.6994056	21	2 9.1	21.5
543585 2014 NZ_{68}	16.8	X	203.44579	221.02669	107.30429	5.73668	0.1169440	0.21891798	2.7265602	21	2 11.8	21.1
543586 2014 NT_{70}	17.5	X	166.37928	196.91575	292.06725	5.20461	0.0995932	0.27920242	2.3184083	21	7 25.2	20.6
543587 2014 NC_{73}	17.1	X	111.44392	13.72475	134.09348	15.42203	0.0682335	0.24040156	2.5615993	21	6 14.4	20.9
543588 2014 NH_{73}	16.5	X	104.94826	346.34018	93.12517	14.03204	0.1451700	0.22505906	2.6767330	21	3 24.8	20.4
543589 2014 NG_{76}	17.2	X	112.22904	53.07860	31.68013	13.22545	0.1506739	0.23930955	2.5693861	21	4 4.2	20.7
543590 2014 OD	17.9	X	300.32187	198.53703	117.65127	7.19786	0.1286301	0.26489752	2.4011398	21	5 9.7	20.9
543591 2014 OX	18.2	X	3.39885	158.75838	103.30577	7.85904	0.0882916	0.27050917	2.3678166	21	6 9.2	20.5
543592 2014 ON_{5}	17.1	X	208.75504	205.23833	129.13649	8.91532	0.1906501	0.22896977	2.6461672	21	2 23.3	21.6
543593 2014 OP_{7}	17.0	X	194.46679	295.45211	338.76296	8.88164	0.0453288	0.21158514	2.7891976	21	—	—
543594 2014 OK_{9}	17.3	X	177.82820	245.86433	120.47896	2.67541	0.0915722	0.23454050	2.6040990	21	2 28.9	21.1
543595 2014 OB_{17}	17.9	X	307.91980	31.11500	286.36368	5.49229	0.1061183	0.26848254	2.3797172	21	5 22.8	20.7
543596 2014 ON_{17}	17.4	X	181.52173	64.09209	288.22320	8.52704	0.2106676	0.22673571	2.6635208	21	2 18.7	22.0
543597 2014 OY_{21}	17.4	X	174.01646	249.47606	121.64106	7.24922	0.2578041	0.22724424	2.6595457	21	3 14.4	22.1
543598 2014 OU_{28}	17.3	X	182.37767	67.52963	312.97200	10.97947	0.0372539	0.24206764	2.5498320	21	3 14.1	21.0
543599 2014 OW_{28}	18.2	X	199.98266	351.73024	102.62869	6.09611	0.1194255	0.27654720	2.3332246	21	7 15.2	21.4
543600 2014 OM_{41}	17.7	X	214.41750	90.82532	319.44201	12.05082	0.2092383	0.25812092	2.4429838	21	5 25.9	22.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
543601 2014 OR_{42}	16.2	X	194.92560	346.53299	321.38558	12.11074	0.1591177	0.21890793	2.7266437	21	1 12.8	20.7
543602 2014 OL_{43}	17.6	X	152.47305	248.10044	120.43407	9.06742	0.2850006	0.21791320	2.7349351	21	2 25.0	22.3
543603 2014 OL_{44}	17.4	X	171.45374	183.22799	284.28767	6.35623	0.0535088	0.27434783	2.3456778	21	6 30.7	20.5
543604 2014 ON_{48}	17.7	X	124.27060	331.63442	115.25071	15.42062	0.0799121	0.24331164	2.5411334	21	4 16.4	21.5
543605 2014 OV_{48}	18.0	X	257.01220	239.19088	128.68632	4.24500	0.1506484	0.26371974	2.4082836	21	5 20.6	21.4
543606 2014 OV_{52}	18.2	X	124.57570	42.43750	125.19014	2.87336	0.0558514	0.27882407	2.3205052	21	7 25.6	20.9
543607 2014 OF_{60}	17.8	X	219.52625	68.60294	343.14429	6.77082	0.1081274	0.26323965	2.4112108	21	6 8.7	21.4
543608 2014 OW_{62}	17.8	X	247.95423	30.53487	353.60968	5.98148	0.1271759	0.26243243	2.4161527	21	6 1.5	21.3
543609 2014 OK_{63}	17.7	X	144.71693	46.46397	94.31246	7.32249	0.0490253	0.27308996	2.3528752	21	7 13.3	20.8
543610 2014 OZ_{65}	18.4	X	66.46579	305.18572	316.65984	3.65289	0.1666290	0.29702761	2.2247002	21	10 6.5	21.2
543611 2014 OT_{69}	17.3	X	167.24200	113.36418	307.55160	12.19637	0.2540039	0.23697771	2.5862135	21	4 29.6	22.0
543612 2014 OT_{71}	17.4	X	317.70907	162.79647	128.62146	15.52154	0.1498501	0.25914519	2.4365423	21	5 2.1	20.6
543613 2014 OE_{75}	17.5	X	184.76258	47.29730	348.65129	5.65503	0.2546882	0.24369598	2.5384609	21	4 15.3	22.1
543614 2014 OL_{78}	17.6	X	189.79968	352.46086	44.49802	4.47071	0.2358006	0.24565699	2.5249336	21	4 22.3	22.0
543615 2014 OV_{78}	17.8	X	60.03097	143.22291	83.76875	8.47796	0.0524502	0.28153102	2.3056066	21	7 20.3	20.4
543616 2014 OH_{80}	17.6	X	295.55012	259.24180	70.51498	6.92362	0.0746089	0.26887991	2.3773720	21	5 28.2	20.2
543617 2014 OW_{85}	17.4	X	166.22215	289.94320	86.42759	5.43327	0.1683646	0.23104778	2.6302772	21	3 9.1	21.6
543618 2014 OZ_{85}	18.2	X	328.44351	208.61428	88.79225	3.75027	0.1634092	0.27076389	2.3663313	21	5 19.8	20.4
543619 2014 OY_{91}	17.2	X	125.61783	157.49659	271.14959	11.76208	0.2660530	0.22917595	2.6445799	21	4 5.2	21.6
543620 2014 OK_{96}	17.0	X	173.62865	212.12761	156.32556	13.65958	0.2071043	0.21965092	2.7204915	21	3 7.7	21.4
543621 2014 OQ_{107}	18.0	X	294.74327	339.50657	349.30368	7.03665	0.1266758	0.26737868	2.3862624	21	5 14.2	21.1
543622 2014 OJ_{108}	18.2	X	123.59462	97.90025	60.65381	3.43758	0.1200154	0.28055962	2.3109255	21	7 19.3	21.3
543623 2014 OR_{109}	17.6	X	267.90271	239.20168	114.42777	12.98529	0.1222954	0.26219285	2.4176243	21	5 20.9	21.1
543624 2014 OC_{114}	17.9	X	209.83735	110.14491	316.15176	5.70342	0.0835131	0.27082310	2.3659864	21	6 19.6	21.2
543625 2014 OU_{115}	17.7	X	244.46901	77.85638	293.05687	4.15192	0.1602317	0.25867909	2.4394682	21	5 7.6	21.3
543626 2014 OH_{123}	18.4	X	275.41629	338.22570	11.82435	2.26106	0.1364396	0.26344597	2.4099517	21	5 18.6	21.5
543627 2014 OD_{125}	17.9	X	315.32785	326.50159	347.68423	3.72142	0.1928223	0.26883819	2.3776180	21	5 14.6	20.6
543628 2014 OZ_{127}	17.3	X	248.26828	254.64714	104.21475	11.15368	0.1500279	0.25397246	2.4695148	21	5 3.3	21.2
543629 2014 OV_{131}	17.4	X	169.13640	209.88204	134.43945	8.02586	0.1261908	0.22221816	2.6994981	21	1 27.4	21.4
543630 2014 OL_{132}	17.2	X	228.91046	196.23678	117.69608	14.79751	0.0451473	0.23681026	2.5874326	21	2 20.4	20.9
543631 2014 OH_{139}	18.3	X	349.91908	125.60347	162.24201	2.11869	0.1769648	0.27566274	2.3382127	21	6 17.8	19.9
543632 2014 OB_{141}	18.0	X	22.10315	156.67883	89.77299	2.40037	0.1408270	0.27459339	2.3442792	21	6 23.0	20.0
543633 2014 OM_{141}	17.8	X	186.28702	252.92910	103.21145	3.83048	0.1459744	0.23061000	2.6336049	21	2 28.8	21.9
543634 2014 OD_{142}	17.7	X	186.44198	279.41046	116.00707	8.41812	0.1744858	0.24297788	2.5434599	21	4 20.2	21.9
543635 2014 OJ_{144}	17.7	X	93.82661	184.85022	310.19608	1.42659	0.1342606	0.25359587	2.4719590	21	5 10.6	20.7
543636 2014 OB_{147}	17.6	X	214.25717	154.01721	299.55473	6.04481	0.0302207	0.28345459	2.2951640	21	8 6.8	20.3
543637 2014 OX_{155}	17.9	X	224.41353	5.60538	17.96240	5.71375	0.1980426	0.25452885	2.4659147	21	5 2.7	22.0
543638 2014 OB_{156}	17.6	X	134.99268	20.37842	47.04970	4.89418	0.2034909	0.23687600	2.5869538	21	4 12.2	21.5
543639 2014 OT_{156}	16.8	X	143.74871	305.16318	102.39583	16.36872	0.1246001	0.23447043	2.6046177	21	3 26.3	20.9
543640 2014 OA_{158}	17.6	X	168.86504	5.53811	44.79850	5.83109	0.2182585	0.24236015	2.5477799	21	4 21.8	21.8
543641 2014 OY_{159}	17.8	X	216.95977	338.04924	27.93605	5.25540	0.1865969	0.24564225	2.5250346	21	4 6.9	21.8
543642 2014 OV_{160}	17.4	X	141.85973	310.84148	102.44237	14.62728	0.2591352	0.22955573	2.6416623	21	4 12.9	22.0
543643 2014 OU_{166}	17.9	X	275.88028	282.73958	69.23496	7.06217	0.1275980	0.26552121	2.3973783	21	5 23.9	21.1
543644 2014 OL_{168}	16.7	X	84.10555	139.62034	346.56464	12.04697	0.0930931	0.24701516	2.5156698	21	4 4.2	19.9
543645 2014 OL_{169}	17.1	X	136.21728	310.89119	92.66098	13.72572	0.1777975	0.22581768	2.6707348	21	3 18.9	21.4
543646 2014 OX_{171}	17.9	X	144.84211	304.30940	100.49842	8.48654	0.2720719	0.22568855	2.6717534	21	4 3.4	22.5
543647 2014 OJ_{172}	18.0	X	214.90762	54.25675	350.50794	6.12795	0.1048188	0.26054232	2.4278240	21	5 24.5	21.7
543648 2014 OQ_{174}	18.0	X	178.95756	81.58426	324.48217	13.35113	0.2096419	0.24284069	2.5444177	21	4 17.2	22.5
543649 2014 OO_{175}	17.0	X	150.82151	293.40092	108.12309	17.39828	0.3320945	0.22637123	2.6663791	21	4 12.1	22.1
543650 2014 OT_{179}	16.9	X	159.97389	273.79135	118.61261	15.61585	0.1338306	0.22868691	2.6483488	21	3 23.9	21.2
543651 2014 OB_{183}	18.0	X	65.24677	153.60466	102.51217	6.73384	0.0797526	0.28770446	2.2725057	21	9 17.5	20.7
543652 2014 OU_{183}	17.8	X	218.41206	291.14268	86.64071	6.49982	0.2115081	0.24291473	2.5439007	21	4 24.2	22.1
543653 2014 OS_{186}	17.5	X	22.76273	328.12296	305.88072	5.68765	0.2571558	0.27776647	2.3263917	21	8 26.9	19.1
543654 2014 OF_{192}	17.8	X	14.28788	146.71012	134.84420	5.56993	0.2287796	0.27300686	2.3533526	21	8 15.2	19.1
543655 2014 OR_{192}	16.6	X	121.92231	262.91756	157.34153	14.48068	0.1220769	0.21333903	2.7738896	21	3 13.1	20.5
543656 2014 OC_{194}	17.0	X	199.13507	319.23343	7.79412	3.94757	0.0978681	0.21424797	2.7660387	21	2 6.5	21.2
543657 2014 OM_{200}	17.9	X	358.19157	332.15040	333.61116	10.98465	0.0893666	0.27860478	2.3217227	21	8 9.5	20.1
543658 2014 OF_{210}	17.9	X	197.50364	9.00873	100.33119	7.36769	0.0502097	0.28354085	2.2946984	21	8 7.5	20.8
543659 2014 OL_{213}	17.7	X	174.84857	283.25522	108.88323	12.98191	0.2740504	0.23439709	2.6051611	21	4 12.6	22.5
543660 2014 OC_{215}	17.4	X	171.73966	270.82942	127.32374	13.91503	0.3001315	0.23435246	2.6054918	21	4 17.9	22.4
543661 2014 OE_{218}	17.9	X	236.41615	320.20501	82.40807	8.53922	0.1058645	0.26941278	2.3742362	21	6 16.5	21.0
543662 2014 OD_{222}	17.2	X	208.31926	256.99813	99.84039	14.51194	0.0377276	0.24272819	2.5452039	21	3 27.5	21.1
543663 2014 OK_{223}	17.5	X	91.77218	107.91341	337.52450	11.15164	0.1685737	0.22702233	2.6612785	21	3 8.7	20.7
543664 2014 OA_{230}	17.3	X	180.26389	242.70716	171.36104	13.86459	0.1773153	0.23154589	2.6265036	21	5 7.8	21.8
543665 2014 OK_{230}	17.5	X	201.74606	266.20796	133.71311	4.29168	0.1287812	0.23840183	2.5759039	21	5 8.0	21.5
543666 2014 ON_{232}	17.0	X	171.96125	65.12425	346.46695	21.87998	0.0454830	0.23341987	2.6124271	21	4 7.4	21.0
543667 2014 OS_{235}	16.1	X	349.28894	217.67775	151.84353	14.62356	0.0686165	0.18192248	3.0846920	21	10 15.4	20.2
543668 2014 OY_{240}	18.1	X	247.34827	228.07920	140.93925	2.28325	0.1971581	0.25689414	2.4507551	21	5 7.2	21.8
543669 2014 OR_{243}	17.1	X	181.69942	276.10202	92.99554	13.35009	0.2796762	0.23015629	2.6370649	21	3 22.2	22.0
543670 2014 OZ_{243}	17.1	X	125.85745	322.95713	99.99434	14.20832	0.1511715	0.23422784	2.6064158	21	3 28.4	21.1
543671 2014 OY_{247}	17.8	X	131.37148	325.54803	94.13609	5.91614	0.2309882	0.23022167	2.6365656	21	4 4.3	21.9
543672 2014 ON_{249}	17.9	X	82.86859	111.84265	59.92040	4.18139	0.0692433	0.26647193	2.3916726	21	6 5.0	20.5
543673 2014 OF_{252}	17.8	X	133.82917	86.02313	63.67792	7.65109	0.0575030	0.27605487	2.3359978	21	7 13.2	20.9
543674 2014 OR_{252}	17.3	X	169.59454	340.90435	31.17095	6.95629	0.1646395	0.22813383	2.6526274	21	3 7.2	21.5
543675 2014 OB_{257}	17.9	X	318.11136	287.57485	33.41633	6.84103	0.1321091	0.27198857	2.3592227	21	6 9.9	20.4
543676 2014 OY_{259}	17.0	X	199.50233	252.51937	90.95623	8.70265	0.2110365	0.22951633	2.6419645	21	2 28.9	21.6
543677 2014 OD_{260}	17.3	X	249.16120	256.23557	49.92900	6.45303	0.1374418	0.23941747	2.5686139	21	2 27.4	21.3
543678 2014 OK_{260}	17.3	X	159.27380	275.49299	102.10297	13.93658	0.2198977	0.22291703	2.6938530	21	3 11.8	22.0
543679 2014 OY_{263}	17.9	X	100.95432	138.01385	23.46619	5.77386	0.0616875	0.26638516	2.3921920	21	6 14.8	21.0
543680 2014 OA_{274}	17.0	X	174.54162	289.44176	104.01877	13.96854	0.1786183	0.23667411	2.5884248	21	4 10.9	21.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
543681 2014 OA_{276}	17.0	X	200.95551	266.18537	64.42186	9.71494	0.1873560	0.22599803	2.6693137	21	2 15.3	21.6
543682 2014 OG_{276}	17.7	X	350.67213	296.11290	333.74356	19.59261	0.1951792	0.27027167	2.3692035	21	5 5.8	20.4
543683 2014 OZ_{279}	17.8	X	178.95995	303.84191	111.00164	10.48105	0.0868266	0.24712529	2.5149224	21	5 5.2	21.7
543684 2014 OJ_{280}	16.9	X	59.07162	146.57173	3.35574	7.68319	0.0942474	0.24174740	2.5520833	21	4 2.7	19.8
543685 2014 OK_{281}	17.0	X	108.66208	47.58782	5.40078	9.07891	0.1253946	0.21727286	2.7403060	21	2 17.4	20.7
543686 2014 OJ_{282}	16.9	X	143.16884	24.06824	30.65977	7.92730	0.0345475	0.23511339	2.5998671	21	3 18.8	20.4
543687 2014 OT_{282}	17.8	X	76.30389	165.87483	35.63966	5.57898	0.1653346	0.27481623	2.3430117	21	7 27.4	20.7
543688 2014 OZ_{283}	16.3	X	175.68214	182.58686	118.07551	11.21520	0.1281266	0.20520186	2.8467447	21	—	—
543689 2014 OR_{285}	17.8	X	354.35404	244.12907	64.13537	6.50188	0.1677234	0.27970621	2.3156236	21	8 8.3	19.6
543690 2014 ON_{286}	17.4	X	157.46380	321.96701	44.93709	6.95288	0.2360073	0.21581761	2.7526108	21	2 25.1	22.0
543691 2014 OY_{286}	17.4	X	154.42841	275.54139	96.18567	9.31355	0.2240646	0.21586445	2.7522126	21	2 27.6	22.0
543692 2014 OU_{288}	18.3	X	61.57411	132.51286	112.11683	9.11702	0.1792289	0.28545876	2.2844087	21	9 12.2	21.1
543693 2014 OU_{293}	17.8	X	259.88412	75.01264	293.91862	6.35699	0.1183257	0.25374337	2.4710010	21	5 27.8	21.2
543694 2014 OS_{294}	17.5	X	177.08999	255.03018	167.47612	4.96142	0.2036120	0.23437248	2.6053434	21	5 14.3	21.9
543695 2014 OT_{295}	17.2	X	220.98853	17.07466	331.70070	13.87356	0.2774496	0.23151993	2.6266999	21	3 15.1	22.1
543696 2014 OF_{297}	17.0	X	285.63670	131.37889	160.97801	12.70498	0.1117725	0.23607337	2.5928141	21	3 23.4	20.6
543697 2014 OF_{306}	18.1	X	237.81429	35.64865	345.16975	4.34558	0.0744350	0.26182769	2.4198717	21	5 21.4	21.5
543698 2014 OF_{309}	17.6	X	235.84494	109.41949	300.84463	8.10643	0.1266898	0.27216888	2.3581806	21	6 24.7	21.1
543699 2014 OU_{309}	18.1	X	204.79860	165.99107	286.27444	4.85211	0.1885499	0.27588290	2.3369685	21	7 13.7	21.9
543700 2014 OS_{310}	17.6	X	132.65599	107.69054	312.43005	11.50526	0.2322857	0.22982518	2.6395971	21	3 28.2	21.9
543701 2014 OE_{312}	18.4	X	346.36192	151.40053	134.60490	5.36124	0.1225900	0.27265933	2.3553519	21	6 11.9	20.6
543702 2014 OC_{318}	16.9	X	210.59647	211.40720	105.50816	4.12187	0.2184474	0.21754470	2.7380227	21	2 5.1	21.5
543703 2014 OP_{318}	17.8	X	197.04126	194.10767	229.77130	2.15262	0.0696285	0.26509682	2.3999362	21	6 1.7	21.1
543704 2014 OC_{321}	17.9	X	117.68368	85.32051	353.97033	3.27852	0.1500174	0.23818806	2.5774449	21	3 31.1	21.4
543705 2014 OW_{321}	16.7	X	41.92738	7.51374	122.59888	4.52857	0.1349545	0.23347116	2.6120444	21	2 10.1	19.3
543706 2014 OL_{332}	17.7	X	131.51978	328.88898	93.00329	3.31389	0.1973109	0.23092843	2.6311834	21	4 2.2	21.7
543707 2014 OJ_{337}	17.5	X	191.71046	243.84565	99.78438	3.95122	0.0992707	0.21616161	2.7496896	21	2 18.8	21.6
543708 2014 OK_{340}	18.2	X	52.96985	233.62336	353.69630	4.95085	0.1090005	0.27693683	2.3310356	21	7 19.0	20.7
543709 2014 OP_{340}	17.7	X	326.56745	234.97681	62.25416	3.18799	0.2029303	0.26768956	2.3844146	21	5 8.9	19.8
543710 2014 OM_{343}	17.4	X	28.93148	187.57151	86.32414	4.42540	0.1601750	0.28537450	2.2848583	21	8 27.9	19.4
543711 2014 OJ_{349}	17.8	X	233.33224	160.18413	243.34484	5.03558	0.0788019	0.26888156	2.3773623	21	6 16.9	20.9
543712 2014 OZ_{349}	17.6	X	142.25786	210.36342	272.63055	6.12032	0.0742394	0.26720268	2.3873101	21	6 17.1	20.7
543713 2014 OU_{352}	17.1	X	147.10280	196.19329	213.00637	3.42353	0.0599937	0.23688928	2.5868572	21	3 15.4	20.8
543714 2014 OC_{353}	17.8	X	99.68417	359.04103	161.68306	5.04601	0.0460612	0.26590856	2.3950496	21	6 10.5	20.8
543715 2014 OJ_{368}	17.9	X	226.21471	284.14636	118.26168	8.56606	0.1468783	0.26228975	2.4170289	21	6 3.1	21.7
543716 2014 OX_{369}	17.7	X	150.44710	321.87040	85.31119	2.58210	0.1269873	0.23451654	2.6042763	21	3 26.5	21.6
543717 2014 OR_{372}	17.7	X	289.73177	184.56645	140.29778	7.87740	0.1354433	0.25962316	2.4335509	21	5 6.6	20.9
543718 2014 OF_{373}	17.6	X	245.98798	239.81011	146.63688	12.01974	0.1762544	0.26024630	2.4296647	21	6 1.2	21.5
543719 2014 OH_{373}	16.2	X	79.63112	207.65796	154.75417	9.90989	0.1078023	0.18780438	3.0199441	21	—	—
543720 2014 OG_{376}	17.3	X	217.46189	300.26430	85.44326	7.72091	0.1115892	0.25237698	2.4799117	21	5 6.2	21.0
543721 2014 OR_{377}	17.8	X	302.61913	335.61010	337.89599	6.67985	0.1201816	0.26163166	2.4210802	21	5 5.0	21.0
543722 2014 OZ_{379}	17.9	X	332.92668	243.44409	51.42596	2.77680	0.2093228	0.27216258	2.3582171	21	5 15.9	20.1
543723 2014 OT_{381}	18.0	X	31.08861	153.69171	106.91657	7.95719	0.1018427	0.28260599	2.2997563	21	7 30.8	20.2
543724 2014 OV_{383}	17.2	X	244.35654	272.58669	89.01090	7.48816	0.1222984	0.25208292	2.4818399	21	5 3.2	20.9
543725 2014 OZ_{383}	17.2	X	310.44016	251.14878	73.88355	7.09456	0.1454481	0.26717652	2.3874660	21	6 1.7	19.8
543726 2014 OS_{385}	18.3	X	7.05417	118.14061	159.06378	6.33248	0.1144184	0.27758352	2.3274138	21	7 9.6	20.5
543727 2014 OK_{386}	17.2	X	144.22800	103.70194	293.61814	10.27837	0.1996879	0.22497666	2.6773865	21	3 9.4	21.5
543728 2014 OG_{388}	17.5	X	271.60858	256.89850	102.50258	7.14778	0.1135290	0.26364336	2.4087487	21	5 31.7	20.7
543729 2014 OH_{389}	16.5	X	131.05137	263.51064	154.40563	10.23610	0.2607028	0.21618031	2.7495310	21	4 5.7	21.0
543730 2014 OX_{390}	17.1	X	159.67171	244.84933	157.02730	13.49298	0.1866568	0.22323174	2.6913205	21	4 5.5	21.6
543731 2014 OH_{391}	16.7	X	266.60906	216.94906	98.43847	9.20852	0.1455516	0.23810661	2.5780326	21	3 29.9	20.6
543732 2014 OH_{393}	16.7	X	167.12169	66.92308	288.63055	11.99348	0.2697569	0.21233881	2.7825937	21	2 14.8	21.7
543733 2014 OZ_{393}	6.3	X	18.86863	183.42411	211.20148	16.66897	0.1875160	0.00313165	46.2686912	21	11 25.9	22.1
543734 2014 OL_{394}	7.7	X	6.74075	171.49922	208.43938	4.58095	0.2733958	0.00357618	42.3502902	21	10 26.5	22.6
543735 2014 OS_{394}	6.1	X	357.32956	251.44307	194.24953	14.11033	0.7519669	0.00053830	149.6657310	21	11 22.4	22.0
543736 2014 OV_{398}	17.9	X	35.54057	293.67554	320.29360	6.38608	0.0899642	0.27639120	2.3341024	21	7 26.5	20.2
543737 2014 OP_{399}	17.1	X	312.58374	122.97707	152.99598	13.65617	0.0530264	0.23935281	2.5690764	21	4 17.5	20.6
543738 2014 OS_{400}	17.8	X	208.94323	235.83710	143.26588	6.99768	0.1373873	0.23448150	2.6045358	21	4 19.9	21.9
543739 2014 OW_{400}	18.1	X	151.10413	138.73020	357.54945	2.50000	0.0612797	0.27292176	2.3538418	21	7 16.4	21.1
543740 2014 OY_{400}	18.3	X	145.53516	0.52130	109.19144	5.32202	0.0347488	0.25744616	2.4472505	21	5 31.1	21.5
543741 2014 OT_{401}	17.5	X	161.41804	58.01088	321.55185	7.91597	0.1368952	0.23045860	2.6347582	21	3 1.7	21.5
543742 2014 ON_{402}	17.8	X	67.37758	120.28197	82.10477	5.96532	0.0570475	0.26501169	2.4004502	21	6 24.7	20.7
543743 2014 OF_{404}	18.2	X	245.40298	277.27347	96.39372	5.32013	0.1499015	0.25527853	2.4610845	21	5 16.1	21.8
543744 2014 OT_{404}	16.7	X	249.07000	323.17582	341.50199	15.03457	0.1321044	0.23629740	2.5911750	21	2 24.2	20.8
543745 2014 OU_{404}	17.7	X	194.68318	24.85773	60.35378	7.34830	0.0635039	0.26361221	2.4089384	21	6 28.4	21.0
543746 2014 OH_{405}	17.9	X	159.17284	21.16274	16.60328	2.31946	0.1548756	0.23471542	2.6028050	21	3 24.8	22.0
543747 2014 OP_{405}	17.3	X	129.80010	120.96862	321.01206	14.48370	0.0813155	0.24208955	2.5496781	21	4 1.2	21.1
543748 2014 OB_{408}	17.5	X	174.00755	82.31783	336.11712	17.12053	0.1104479	0.24320015	2.5419099	21	4 22.5	21.7
543749 2014 OE_{408}	17.7	X	120.43834	63.93700	90.74328	4.64286	0.0961050	0.26446072	2.4037830	21	7 6.7	20.8
543750 2014 OM_{408}	18.0	X	174.64198	327.34159	77.47952	4.57996	0.1863888	0.23441696	2.6050138	21	4 20.1	22.2
543751 2014 OL_{410}	16.4	X	151.02874	98.16292	250.38054	10.76021	0.1223859	0.19206085	2.9751588	21	1 16.6	21.0
543752 2014 OF_{412}	17.2	X	102.79773	350.36394	158.08249	8.06819	0.0701080	0.25140718	2.4862851	21	6 2.8	20.6
543753 2014 OP_{412}	16.8	X	191.46565	203.13769	146.35221	10.12657	0.1686414	0.21023124	2.8011598	21	2 27.8	21.3
543754 2014 OR_{413}	16.6	X	116.58233	352.16323	12.82766	11.36164	0.0828020	0.20132593	2.8831655	21	—	—
543755 2014 OK_{414}	17.0	X	116.26369	347.48883	60.74982	12.72696	0.2402540	0.21207152	2.7849313	21	3 12.9	21.3
543756 2014 OG_{415}	17.3	X	227.58793	182.13522	146.40571	10.01050	0.1169683	0.22565279	2.6720357	21	3 6.6	21.5
543757 2014 OH_{415}	17.1	X	136.86391	255.92904	153.50147	14.38005	0.0720313	0.21631513	2.7483885	21	3 10.2	20.9
543758 2014 OH_{417}	17.5	X	136.52527	307.14349	112.53933	14.34863	0.2479463	0.23051975	2.6342923	21	4 14.6	22.0
543759 2014 PG_{1}	17.6	X	259.84053	263.00324	120.53685	6.79944	0.1438199	0.26769935	2.3843564	21	6 14.5	21.0
543760 2014 PD_{13}	18.1	X	328.50708	159.29984	138.12294	3.05652	0.1735091	0.26620237	2.3932870	21	5 19.1	20.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
543761 2014 PM_{16}	17.3	X	153.24248	14.95392	45.90014	0.95747	0.0056391	0.24161862	2.5529900	21	4 1.9	20.6
543762 2014 PT_{18}	16.8	X	127.32565	258.86253	101.82486	3.81772	0.2504895	0.20196510	2.8770793	21	1 22.3	21.1
543763 2014 PE_{26}	17.8	X	288.88448	280.43441	62.17698	2.61506	0.1847479	0.26230095	2.4169601	21	5 19.2	20.8
543764 2014 PH_{26}	17.3	X	171.92734	249.06928	130.61283	12.75041	0.1120735	0.22807638	2.6530728	21	3 16.3	21.4
543765 2014 PC_{27}	17.8	X	290.45735	226.31226	110.40843	3.99171	0.1154291	0.26128914	2.4231956	21	5 25.2	20.9
543766 2014 PF_{27}	17.5	X	211.59564	226.07374	135.23085	12.36097	0.0984488	0.23785175	2.5798739	21	4 2.5	21.5
543767 2014 PK_{32}	17.9	X	359.00576	299.63487	10.04036	4.33335	0.0853668	0.27920985	2.3183672	21	8 16.9	20.1
543768 2014 PZ_{37}	17.0	X	189.63288	52.49863	346.06690	10.79030	0.1850432	0.23865984	2.5740471	21	4 19.1	21.4
543769 2014 PS_{38}	17.7	X	238.84456	214.64919	135.64068	6.65539	0.2351955	0.24079780	2.5587884	21	4 6.6	22.0
543770 2014 PX_{38}	17.3	X	157.32233	280.32826	148.49969	13.31301	0.1804539	0.23195595	2.6234072	21	5 6.9	21.8
543771 2014 PF_{39}	16.6	X	112.15963	273.48735	164.83118	22.30761	0.0422139	0.22547439	2.6734449	21	3 9.9	20.0
543772 2014 PY_{39}	17.3	X	145.88247	47.44718	342.30483	4.62410	0.0726237	0.22037818	2.7145030	21	2 22.6	21.2
543773 2014 PZ_{39}	17.3	X	167.31561	18.98369	344.59031	4.67287	0.1308325	0.21865222	2.7287691	21	2 19.4	21.4
543774 2014 PH_{41}	17.2	X	140.80911	268.15122	155.39523	14.93208	0.1270122	0.22760241	2.6567548	21	4 8.9	21.3
543775 2014 PM_{41}	17.0	X	192.42420	213.31595	125.61229	4.09224	0.1063013	0.22060950	2.7126051	21	2 12.7	21.2
543776 2014 PZ_{42}	17.1	X	234.77088	266.08978	86.76838	11.39034	0.1199778	0.24077580	2.5589443	21	4 15.8	21.2
543777 2014 PW_{44}	18.1	X	263.50667	110.66481	232.83118	1.39199	0.2091978	0.25527707	2.4610939	21	4 18.1	21.7
543778 2014 PB_{45}	17.4	X	137.59766	288.66544	139.86774	28.16101	0.2314854	0.22902670	2.6457287	21	4 27.3	22.3
543779 2014 PL_{47}	16.9	X	150.38789	28.82111	319.70469	8.26963	0.1672851	0.20848812	2.8167514	21	1 21.0	21.2
543780 2014 PQ_{48}	16.9	X	148.80604	253.80680	138.82659	14.49707	0.1406074	0.22111394	2.7084780	21	3 10.9	21.0
543781 2014 PS_{48}	18.0	X	277.35572	265.62681	81.14278	2.75267	0.1932646	0.25788300	2.4444861	21	5 9.9	21.3
543782 2014 PX_{48}	17.9	X	43.75472	247.10315	357.30262	6.25798	0.0632950	0.27245271	2.3565426	21	7 23.0	20.6
543783 2014 PT_{50}	17.0	X	196.21352	93.76739	302.59168	27.07950	0.3157108	0.24008358	2.5638606	21	4 12.7	22.4
543784 2014 PL_{54}	16.8	X	351.87969	153.80100	57.63639	15.43352	0.0466874	0.23313337	2.6145668	21	3 23.9	20.4
543785 2014 PK_{55}	17.2	X	294.50569	119.78677	159.77328	11.82754	0.0529392	0.23996421	2.5647108	21	3 26.2	20.6
543786 2014 PK_{57}	16.8	X	198.52571	345.02379	52.65760	16.76257	0.1519795	0.23888997	2.5723937	21	5 2.3	20.9
543787 2014 PM_{61}	17.7	X	206.43145	185.82581	140.32345	2.94556	0.2147522	0.22967787	2.6407256	21	2 10.5	22.2
543788 2014 PS_{63}	17.7	X	338.22094	314.01211	348.74218	2.74577	0.0803308	0.27164903	2.3611883	21	6 26.2	20.0
543789 2014 PC_{64}	17.1	X	146.12520	36.96439	332.77968	7.16201	0.2398270	0.21335756	2.7737290	21	2 16.5	21.4
543790 2014 PE_{67}	16.4	X	147.68311	351.93399	74.84540	23.02205	0.0820484	0.23237138	2.6202795	21	4 23.4	20.6
543791 2014 PH_{68}	18.0	X	292.35771	176.53773	147.33895	4.09528	0.2148847	0.26075231	2.4265203	21	4 25.0	21.3
543792 2014 PZ_{69}	16.7	X	214.09136	82.05025	281.43812	12.35525	0.1927429	0.23752208	2.5822605	21	3 25.7	21.4
543793 2014 PA_{74}	17.8	X	151.06783	79.66056	324.46159	12.51815	0.1863345	0.22924629	2.6440389	21	3 22.4	22.1
543794 2014 PV_{74}	18.0	X	131.77471	285.73076	125.31043	8.43196	0.2309672	0.21848198	2.7301864	21	3 26.5	22.4
543795 2014 PY_{75}	17.7	X	144.61498	112.51455	291.33657	1.76035	0.1741922	0.22451375	2.6810655	21	3 19.6	21.8
543796 2014 PQ_{78}	17.2	X	171.71733	63.34432	309.45825	12.83039	0.1507273	0.22787469	2.6546381	21	3 1.9	21.5
543797 2014 PR_{84}	16.8	X	200.02256	203.43978	143.34299	15.20898	0.1535420	0.21924955	2.7238107	21	3 3.6	21.2
543798 2014 QH_{1}	17.0	X	167.65797	135.10257	281.90477	6.58120	0.1982073	0.23206578	2.6225794	21	4 25.6	21.5
543799 2014 QB_{8}	16.6	X	51.49543	261.79878	262.11219	13.56895	0.0713544	0.24638857	2.5199331	21	4 1.3	19.9
543800 2014 QT_{11}	17.6	X	18.90577	37.58125	225.36455	12.05803	0.1485320	0.27538548	2.3397818	21	7 11.1	19.9
543801 2014 QC_{12}	17.0	X	165.36210	110.54807	253.84454	12.65879	0.1054831	0.22165613	2.7040593	21	2 9.9	21.3
543802 2014 QK_{17}	17.0	X	143.18115	165.55908	277.32195	13.05643	0.2198916	0.23678679	2.5876035	21	5 6.9	21.4
543803 2014 QW_{17}	17.0	X	136.50969	125.45086	278.48905	11.18041	0.1727534	0.21980890	2.7191878	21	3 6.9	21.4
543804 2014 QN_{18}	17.6	X	348.61111	86.35283	188.42508	4.97842	0.1400095	0.25958215	2.4338071	21	5 28.9	19.8
543805 2014 QL_{24}	17.3	X	166.76061	113.09689	308.59767	7.82268	0.1387568	0.23601087	2.5932718	21	4 26.4	21.4
543806 2014 QQ_{28}	16.8	X	214.34559	50.23813	295.21791	9.87040	0.0138517	0.22931336	2.6435233	21	3 9.3	20.6
543807 2014 QV_{30}	16.9	X	154.35563	309.68873	86.66284	13.63569	0.2038687	0.21726498	2.7403722	21	3 31.0	21.6
543808 2014 QK_{31}	17.3	X	203.73207	260.77956	108.67215	13.51492	0.1930684	0.22895679	2.6462672	21	4 7.2	22.0
543809 2014 QO_{37}	17.6	X	149.14762	124.59664	285.02204	7.20921	0.3363838	0.22506116	2.6767163	21	4 9.0	22.5
543810 2014 QE_{42}	17.6	X	172.76235	55.38121	312.85088	3.95627	0.1132227	0.22027429	2.7153564	21	2 27.5	21.7
543811 2014 QW_{42}	16.7	X	165.60085	337.26105	100.44781	13.71596	0.1341860	0.23326039	2.6136176	21	5 22.6	20.9
543812 2014 QV_{43}	17.3	X	141.29502	251.99127	157.24811	13.45244	0.1684857	0.23183503	2.6243193	21	3 24.8	21.3
543813 2014 QW_{46}	17.8	X	206.18439	205.86131	201.13048	4.23024	0.1814095	0.25441967	2.4666201	21	5 18.5	21.7
543814 2014 QU_{48}	17.9	X	207.98936	232.12142	202.25989	6.49715	0.0832307	0.27026672	2.3692324	21	6 28.0	21.3
543815 2014 QZ_{51}	17.6	X	108.79354	220.16571	234.46758	2.18378	0.0917248	0.23993060	2.5649503	21	3 31.1	20.9
543816 2014 QS_{61}	18.3	X	87.43226	33.62087	167.96002	2.53534	0.1230050	0.28003890	2.3137893	21	8 2.7	21.3
543817 2014 QF_{63}	16.9	X	93.68287	144.83753	315.08220	10.83218	0.1413702	0.23272156	2.6176504	21	3 21.6	20.4
543818 2014 QL_{72}	17.7	X	269.57620	120.34003	254.19857	4.96979	0.1315510	0.26719303	2.3873676	21	6 15.5	20.6
543819 2014 QT_{72}	17.4	X	39.34877	316.05978	275.11100	9.56236	0.1150044	0.27134584	2.3629468	21	6 30.1	19.7
543820 2014 QV_{72}	18.0	X	110.15444	278.26041	251.13505	7.74799	0.0405489	0.27067492	2.3668498	21	7 5.4	20.9
543821 2014 QR_{73}	16.7	X	152.14803	110.36768	286.60110	13.53185	0.1137331	0.22871182	2.6481565	21	3 6.2	21.0
543822 2014 QX_{76}	17.9	X	36.17511	330.08746	261.37109	6.77979	0.0633633	0.26708760	2.3879958	21	6 18.7	20.4
543823 2014 QT_{79}	17.5	X	333.25505	29.37866	271.18418	5.48188	0.1476426	0.26917956	2.3756073	21	6 5.1	19.5
543824 2014 QX_{79}	17.1	X	100.84129	161.07174	224.50874	5.38065	0.0778269	0.20523997	2.8463923	21	—	—
543825 2014 QO_{83}	17.0	X	117.37269	113.55234	285.51813	8.61009	0.1387560	0.21375168	2.7703184	21	2 7.7	20.9
543826 2014 QF_{84}	17.4	X	94.57935	283.76156	263.62151	6.07213	0.0574946	0.27104632	2.3646872	21	7 12.3	20.4
543827 2014 QR_{84}	17.3	X	155.75099	122.17598	278.54111	11.65130	0.1326315	0.23017429	2.6369274	21	3 16.9	21.6
543828 2014 QK_{85}	17.3	X	81.85775	216.24238	280.00813	11.82283	0.1358184	0.24324364	2.5416069	21	4 21.6	20.7
543829 2014 QO_{85}	17.1	X	98.47610	190.56041	241.79631	8.80666	0.1341668	0.21960967	2.7208321	21	2 22.1	20.9
543830 2014 QQ_{90}	17.9	X	107.47605	337.88817	237.15222	5.92143	0.0507825	0.28683078	2.2771180	21	9 5.4	20.8
543831 2014 QE_{99}	17.4	X	100.49185	221.31330	241.65816	5.60984	0.2026234	0.23136462	2.6278753	21	4 17.5	20.9
543832 2014 QE_{103}	17.7	X	100.61505	172.02764	290.76049	5.65880	0.1302111	0.23327419	2.6135146	21	4 4.4	21.3
543833 2014 QX_{109}	17.6	X	265.96990	146.07745	199.87406	4.57724	0.1934354	0.25522486	2.4614295	21	4 26.3	21.0
543834 2014 QT_{115}	18.0	X	211.27680	256.34444	134.36242	4.05371	0.1974181	0.24336680	2.5407494	21	5 3.5	22.3
543835 2014 QU_{116}	17.9	X	135.96297	173.62563	287.04131	4.19878	0.2194165	0.23640377	2.5903977	21	5 24.9	22.1
543836 2014 QN_{117}	18.0	X	25.43895	309.05297	304.59912	1.60353	0.1805222	0.27128754	2.3632853	21	7 17.5	19.7
543837 2014 QS_{120}	17.1	X	84.91964	7.34686	145.84605	5.90086	0.0605979	0.24659029	2.5185586	21	5 14.6	20.3
543838 2014 QW_{126}	16.5	X	234.66355	166.80645	164.03109	32.54566	0.1489620	0.23420708	2.6065699	21	3 13.3	20.6
543839 2014 QK_{134}	17.9	X	75.86656	130.52210	61.43068	3.05407	0.1142042	0.26001989	2.4310749	21	7 2.2	20.8
543840 2014 QX_{138}	17.3	X	120.30454	119.54665	23.71877	2.56045	0.1172098	0.25122548	2.4874838	21	6 23.3	20.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
543841 2014 QD_{144}	17.7	X	150.13552	10.24077	61.14596	2.87037	0.1921024	0.22966063	2.6408578	21	4 30.4	21.9
543842 2014 QJ_{149}	17.4	X	173.26404	202.25532	171.71901	4.98832	0.0881594	0.22459189	2.6804436	21	3 5.6	21.4
543843 2014 QP_{149}	17.4	X	38.70783	4.25602	167.84677	10.26964	0.0571542	0.23442567	2.6049493	21	4 1.9	20.5
543844 2014 QT_{151}	17.3	X	216.17366	234.82428	135.21039	15.56934	0.1477176	0.23159770	2.6261118	21	4 18.8	21.8
543845 2014 QU_{151}	16.8	X	180.01463	295.18869	94.93167	11.92442	0.2098717	0.22275244	2.6951797	21	4 12.7	21.6
543846 2014 QF_{156}	17.3	X	168.74699	284.21451	33.59455	7.93967	0.2203883	0.21163560	2.7887542	21	1 5.5	22.0
543847 2014 QQ_{161}	17.8	X	330.35244	266.26179	28.24036	6.38439	0.1282197	0.26979364	2.3720012	21	5 22.4	20.2
543848 2014 QT_{164}	17.9	X	234.83621	341.99009	32.83800	5.84352	0.1881226	0.25349779	2.4725966	21	5 2.3	21.8
543849 2014 QX_{164}	18.3	X	235.67824	296.00418	82.26910	3.48541	0.2024353	0.25457012	2.4656481	21	5 7.8	22.1
543850 2014 QT_{166}	16.5	X	140.50920	277.43385	132.22775	16.28487	0.1637759	0.21209388	2.7847356	21	3 29.2	21.0
543851 2014 QK_{167}	16.8	X	190.47160	302.75013	98.76806	13.86654	0.1776317	0.22854042	2.6494803	21	5 3.9	21.4
543852 2014 QQ_{167}	17.3	X	257.62652	219.37574	119.45288	11.75992	0.2181043	0.23902496	2.5714251	21	4 12.9	21.6
543853 2014 QJ_{171}	17.8	X	70.09386	308.78653	317.70012	11.98909	0.1068474	0.28915732	2.2648873	21	10 2.9	21.0
543854 2014 QS_{171}	17.6	X	126.03530	208.08158	281.80156	3.13597	0.1453567	0.25491604	2.4634170	21	6 14.9	21.2
543855 2014 QM_{179}	17.6	X	190.76351	24.64377	356.89384	13.96215	0.2039110	0.22972304	2.6403794	21	4 1.8	22.1
543856 2014 QF_{182}	16.9	X	134.12770	119.89602	302.76839	11.22422	0.1002447	0.22907693	2.6453419	21	3 18.2	20.8
543857 2014 QF_{194}	18.0	X	151.08045	194.59309	256.18125	3.10342	0.1576350	0.24365508	2.5387449	21	5 22.1	21.9
543858 2014 QS_{196}	17.9	X	159.87240	212.35593	283.03230	5.81447	0.0500277	0.27077082	2.3662909	21	7 24.3	21.1
543859 2014 QJ_{200}	17.8	X	19.82506	297.58024	301.25600	4.53673	0.1033589	0.26161793	2.4211650	21	6 3.4	20.3
543860 2014 QN_{200}	17.7	X	139.44083	307.09449	189.55591	5.78055	0.1180590	0.26167495	2.4208132	21	7 5.7	21.2
543861 2014 QU_{201}	17.6	X	170.77217	241.08572	168.27006	13.28910	0.2642298	0.23069602	2.6329502	21	4 26.9	22.4
543862 2014 QJ_{202}	17.7	X	136.96106	270.15842	167.20705	12.12971	0.1608695	0.23144090	2.6272978	21	4 24.8	21.8
543863 2014 QA_{204}	16.9	X	54.33982	192.02154	318.96871	9.52425	0.0345260	0.23549611	2.5970495	21	3 19.5	20.3
543864 2014 QW_{208}	18.3	X	27.08461	107.43901	164.45986	7.66381	0.1739159	0.27902004	2.3194185	21	8 18.9	20.3
543865 2014 QE_{214}	18.5	X	45.87322	22.94441	211.69358	1.95371	0.1635544	0.27186581	2.3599329	21	7 25.0	20.7
543866 2014 QE_{215}	18.2	X	160.40212	256.45706	183.79267	3.81990	0.2284376	0.23776992	2.5804658	21	5 22.5	22.6
543867 2014 QA_{216}	16.5	X	182.72718	90.54789	237.99094	3.63297	0.0753935	0.21365730	2.7711342	21	1 19.4	20.6
543868 2014 QQ_{216}	17.9	X	150.02192	180.59024	268.95082	4.50860	0.2654520	0.23627429	2.5913440	21	5 26.4	22.2
543869 2014 QO_{217}	17.8	X	39.96965	42.03287	219.37655	2.49485	0.1534775	0.27964169	2.3159798	21	8 23.3	20.2
543870 2014 QQ_{217}	17.1	X	138.57726	151.02134	325.17900	14.64099	0.1155715	0.25021431	2.4941810	21	6 6.7	21.0
543871 2014 QD_{223}	17.9	X	278.92323	179.99515	162.64784	6.67661	0.1395367	0.25714073	2.4491881	21	5 15.4	21.3
543872 2014 QK_{226}	16.3	X	33.42984	143.11098	335.76162	15.10769	0.2733051	0.20215951	2.8752345	21	1 22.8	18.7
543873 2014 QY_{226}	17.7	X	145.28624	205.99112	166.60555	4.01460	0.1109366	0.21219099	2.7838858	21	2 5.4	21.7
543874 2014 QY_{228}	17.7	X	152.50061	104.25304	325.93500	3.89880	0.1671808	0.23218984	2.6216451	21	4 27.0	21.8
543875 2014 QP_{229}	17.2	X	113.61493	300.99086	165.68498	13.33504	0.2101912	0.22938082	2.6430050	21	5 13.6	21.3
543876 2014 QN_{231}	17.0	X	45.28712	197.35291	343.38873	13.50310	0.1867679	0.24193018	2.5507977	21	4 28.0	19.7
543877 2014 QG_{232}	17.6	X	117.13156	265.26548	161.14999	8.78818	0.2937987	0.21113407	2.7931687	21	4 6.4	22.0
543878 2014 QC_{233}	16.9	X	177.03093	345.47385	12.67930	2.95914	0.1152908	0.21977022	2.7195068	21	2 21.6	21.1
543879 2014 QK_{233}	17.4	X	163.44153	105.29154	348.86124	16.64363	0.1687560	0.24620595	2.5211790	21	6 5.6	21.8
543880 2014 QE_{235}	17.7	X	161.80583	277.04580	153.03857	6.73736	0.2051107	0.23358658	2.6111839	21	5 11.5	22.1
543881 2014 QG_{243}	17.8	X	130.95651	295.50875	122.17465	8.74948	0.2240760	0.21557933	2.7546386	21	4 2.9	22.2
543882 2014 QW_{244}	18.0	X	331.83748	210.86207	80.87409	7.67387	0.1602657	0.26084442	2.4259491	21	5 19.5	20.3
543883 2014 QZ_{244}	17.6	X	72.41259	183.07845	78.18567	7.33085	0.1006911	0.28754670	2.2733368	21	10 8.6	20.5
543884 2014 QO_{249}	18.0	X	45.77345	144.09765	97.11851	7.61542	0.1558039	0.26966449	2.3727585	21	8 4.9	20.4
543885 2014 QT_{249}	16.3	X	104.70484	205.44769	129.07932	11.80734	0.0479857	0.17935789	3.1140271	21	—	—
543886 2014 QP_{252}	16.9	X	15.97091	126.02583	36.86885	9.80693	0.0887324	0.21739873	2.7392482	21	2 19.2	20.3
543887 2014 QD_{255}	17.4	X	148.77296	303.93750	120.44427	10.24823	0.2702438	0.22107769	2.7087740	21	4 30.2	22.2
543888 2014 QH_{255}	17.4	X	51.60248	166.93817	97.27615	8.33766	0.1433179	0.27929904	2.3178736	21	9 20.2	20.2
543889 2014 QT_{255}	16.7	X	188.33664	259.32815	113.62617	10.70349	0.0294047	0.22577974	2.6710339	21	3 23.3	20.6
543890 2014 QU_{256}	17.5	X	243.28443	283.09276	83.79787	10.19606	0.1140775	0.24580975	2.5238874	21	5 10.3	21.2
543891 2014 QO_{257}	17.1	X	266.91026	165.04293	131.31075	15.47232	0.0910315	0.23114939	2.6295063	21	3 11.7	21.0
543892 2014 QE_{258}	17.5	X	313.48735	193.33330	133.59203	15.75319	0.1758231	0.26246244	2.4159685	21	6 8.2	20.4
543893 2014 QG_{260}	16.9	X	144.15296	282.72874	119.43711	13.00528	0.2062146	0.21614937	2.7497935	21	3 27.1	21.5
543894 2014 QX_{263}	17.1	X	184.10501	302.49389	128.68112	13.50686	0.1488749	0.24267999	2.5455409	21	6 1.1	21.4
543895 2014 QU_{265}	17.4	X	74.41872	335.56851	269.79490	4.81866	0.1290885	0.28628311	2.2800213	21	9 15.8	20.3
543896 2014 QW_{265}	17.0	X	175.55928	88.12212	354.72298	28.26660	0.3231890	0.23547313	2.5972185	21	6 1.2	22.4
543897 2014 QJ_{266}	16.7	X	241.54962	236.12851	137.44600	18.68095	0.2468815	0.23796516	2.5790542	21	5 10.7	21.4
543898 2014 QH_{268}	17.8	X	116.59142	283.01725	140.94297	10.07643	0.3298437	0.21927799	2.7235751	21	4 7.7	22.2
543899 2014 QW_{270}	16.3	X	124.91304	95.06205	325.24007	21.80151	0.0754565	0.23786662	2.5797664	21	2 28.3	19.9
543900 2014 QZ_{270}	17.1	X	141.47475	334.90784	79.21388	12.86700	0.1680464	0.23671062	2.5881586	21	4 4.3	21.2
543901 2014 QN_{271}	17.2	X	212.64394	327.24626	51.98586	9.48703	0.2857357	0.24499757	2.5294622	21	4 19.2	21.7
543902 2014 QT_{274}	16.5	X	139.32888	161.62295	146.44553	14.47480	0.2453882	0.18090663	3.0962289	21	—	—
543903 2014 QZ_{274}	16.9	X	216.27818	241.29484	144.66435	12.27407	0.0956732	0.23627605	2.5913312	21	5 8.9	21.0
543904 2014 QT_{275}	16.7	X	127.84168	310.29609	80.06206	3.20196	0.0814486	0.20496820	2.8489078	21	2 6.6	20.6
543905 2014 QP_{276}	18.0	X	296.03998	290.73359	29.68667	1.49318	0.2037758	0.26116794	2.4239453	21	4 24.8	21.2
543906 2014 QE_{277}	17.6	X	166.68006	238.58101	132.87873	6.29365	0.1863840	0.22429483	2.6828097	21	3 4.2	21.9
543907 2014 QJ_{278}	17.4	X	225.60024	197.58509	103.13510	3.55563	0.2227739	0.22777582	2.6554062	21	1 27.2	21.8
543908 2014 QS_{278}	18.1	X	351.72263	195.94087	98.72468	3.23257	0.2160093	0.27660346	2.3329082	21	7 2.4	19.4
543909 2014 QH_{280}	18.0	X	348.19378	151.01678	127.20998	6.98278	0.0965247	0.26826112	2.3810265	21	6 6.1	20.4
543910 2014 QU_{285}	16.6	X	185.04937	311.61557	76.47707	14.73632	0.1406155	0.23381497	2.6094832	21	4 13.1	21.0
543911 2014 QA_{289}	17.6	X	167.30025	25.92329	41.35576	12.16054	0.1422443	0.24147174	2.5540252	21	5 6.8	21.4
543912 2014 QQ_{289}	16.6	X	157.21020	323.09959	69.28392	15.57807	0.0948070	0.22510862	2.6763401	21	3 20.9	20.9
543913 2014 QW_{290}	16.9	X	5.28993	117.17656	73.62193	11.96095	0.0556609	0.22937398	2.6430575	21	3 13.6	20.4
543914 2014 QW_{291}	17.5	X	208.49633	305.70796	103.12670	12.88756	0.1315591	0.24686664	2.5166787	21	5 27.0	21.5
543915 2014 QA_{292}	17.1	X	183.59131	278.43637	116.58174	14.14786	0.1911054	0.23044079	2.6348940	21	4 21.1	21.8
543916 2014 QO_{293}	17.2	X	152.67549	335.26107	98.44015	14.82827	0.2315682	0.22797392	2.6538677	21	5 12.7	21.8
543917 2014 QU_{293}	17.2	X	206.75287	219.96522	99.99083	15.80249	0.2456165	0.21940708	2.7225067	21	2 7.3	22.1
543918 2014 QX_{296}	16.8	X	204.36009	200.23815	149.47016	14.98963	0.2737526	0.23260139	2.6185518	21	3 10.1	21.5
543919 2014 QC_{302}	17.5	X	184.89862	269.73284	148.25533	13.73904	0.1571369	0.23667634	2.5884085	21	5 17.3	21.9
543920 2014 QH_{309}	16.7	X	278.81158	233.89889	1.31870	11.53623	0.0678580	0.23134564	2.6280190	21	1 9.0	20.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
543921 2014 QZ_{311}	17.7	X	200.16039	263.11613	137.62211	11.40394	0.1630532	0.25144464	2.4860382	21	5 8.9	21.9
543922 2014 QT_{316}	17.3	X	171.53363	244.92069	135.19174	5.82973	0.1276863	0.23133634	2.6280894	21	3 15.1	21.4
543923 2014 QH_{320}	17.4	X	86.54566	156.63384	339.42518	5.23307	0.1452322	0.24583149	2.5237386	21	5 2.3	20.6
543924 2014 QW_{322}	17.8	X	188.94382	86.45859	10.92599	7.59997	0.0829512	0.25445130	2.4664157	21	7 9.2	21.5
543925 2014 QN_{323}	17.6	X	87.76338	37.32335	168.47221	6.34639	0.0701224	0.26170563	2.4206240	21	7 30.5	20.7
543926 2014 QQ_{324}	17.0	X	162.30805	230.97744	146.02469	6.37593	0.0592339	0.21398108	2.7683381	21	2 25.2	20.8
543927 2014 QV_{324}	17.0	X	8.60950	46.32717	139.71380	5.01018	0.0560485	0.21996008	2.7179417	21	3 7.9	20.2
543928 2014 QE_{325}	16.9	X	352.24447	182.64218	5.52859	12.38645	0.0629664	0.21445063	2.7642957	21	2 18.9	20.5
543929 2014 QO_{325}	16.4	X	238.90526	276.34598	12.10830	9.39822	0.0629210	0.21185111	2.7868626	21	2 4.1	20.6
543930 2014 QA_{326}	17.2	X	201.03281	144.61138	166.74167	7.84662	0.2588008	0.21182727	2.7870717	21	1 22.1	22.3
543931 2014 QS_{327}	17.4	X	328.52607	146.21374	168.19774	6.41844	0.1402317	0.26014073	2.4303220	21	6 19.7	19.9
543932 2014 QY_{328}	17.7	X	212.19366	251.70625	125.12258	6.10020	0.2026592	0.23201983	2.6229257	21	4 18.9	22.1
543933 2014 QT_{329}	17.5	X	205.93304	296.47715	73.38036	7.16221	0.2841048	0.22813903	2.6525871	21	4 5.6	22.4
543934 2014 QE_{330}	17.0	X	149.82728	272.72988	148.31689	8.54741	0.0902597	0.22179960	2.7028932	21	4 11.8	21.0
543935 2014 QF_{332}	16.7	X	107.49202	207.33424	146.04501	10.12852	0.1187787	0.18235775	3.0797814	21	—	—
543936 2014 QY_{332}	17.1	X	139.02957	247.15719	162.39110	13.34528	0.1101038	0.21476753	2.7615758	21	3 17.4	21.1
543937 2014 QR_{333}	16.9	X	155.15057	255.49433	115.23800	4.76958	0.1061086	0.20889097	2.8131288	21	2 15.4	21.0
543938 2014 QE_{335}	17.2	X	167.55909	294.66812	155.77265	13.88542	0.2277210	0.23426503	2.6061400	21	6 11.1	21.9
543939 2014 QG_{336}	16.8	X	137.40859	106.05957	290.81130	7.59741	0.1744304	0.21229139	2.7830080	21	3 2.8	21.2
543940 2014 QO_{336}	18.0	X	196.76053	270.43334	98.51816	4.92306	0.2106759	0.22757931	2.6569346	21	3 27.9	22.5
543941 2014 QK_{337}	17.4	X	169.23753	234.07625	159.16627	9.83854	0.1855238	0.23242695	2.6198619	21	4 1.7	21.7
543942 2014 QR_{340}	17.6	X	40.99451	119.68643	162.33842	6.06748	0.1674292	0.29039190	2.2584634	21	10 1.9	20.0
543943 2014 QT_{343}	17.6	X	155.98311	230.67760	151.13047	9.58200	0.2694972	0.21971203	2.7199870	21	3 13.4	22.2
543944 2014 QF_{344}	18.1	X	344.64598	349.37642	304.58978	4.55579	0.1152094	0.27086777	2.3657263	21	6 21.5	20.3
543945 2014 QR_{348}	18.0	X	333.43638	111.53109	178.29052	1.44311	0.1797833	0.26023864	2.4297124	21	5 15.7	20.4
543946 2014 QH_{353}	16.3	X	136.32578	118.45712	177.39065	11.10621	0.1083935	0.17904145	3.1176952	21	—	—
543947 2014 QG_{366}	18.2	X	240.24092	237.41970	129.20095	4.08248	0.1886753	0.23997663	2.5646223	21	4 29.9	22.3
543948 2014 QA_{367}	16.5	X	152.87723	252.57002	163.56711	11.23690	0.0912445	0.22018736	2.7160711	21	4 8.7	20.5
543949 2014 QS_{367}	17.4	X	237.27153	254.56582	98.95990	6.08219	0.1406722	0.23342654	2.6123773	21	4 15.7	21.5
543950 2014 QD_{368}	17.0	X	182.75612	279.95037	134.27394	10.10575	0.1080848	0.23022105	2.6365704	21	5 9.6	21.2
543951 2014 QE_{371}	17.9	X	228.79473	238.21256	140.77110	4.56213	0.0893253	0.24545338	2.5263297	21	5 10.9	21.6
543952 2014 QV_{373}	16.5	X	166.77380	126.28552	125.61449	6.62523	0.0433597	0.16931374	3.2359955	21	12 17.9	21.3
543953 2014 QS_{383}	16.8	X	58.99104	244.25775	267.76410	6.13968	0.0973328	0.22867348	2.6484525	21	4 5.5	20.1
543954 2014 QB_{386}	16.2	X	115.19526	0.56878	330.15145	12.65388	0.1384876	0.17815091	3.1280764	21	—	—
543955 2014 QJ_{386}	16.1	X	283.45205	305.03601	295.85169	8.95607	0.0837135	0.20905790	2.8116310	21	1 21.1	20.1
543956 2014 QQ_{387}	17.9	X	25.12138	60.28505	207.22382	5.58296	0.1692923	0.28164451	2.3049872	21	8 5.5	19.9
543957 2014 QF_{391}	16.9	X	211.11904	273.09951	77.75146	14.61662	0.3146396	0.22774384	2.6556548	21	3 22.2	22.1
543958 2014 QP_{400}	18.1	X	238.56519	243.23175	119.39017	2.24499	0.1398460	0.24641961	2.5197215	21	4 25.6	22.0
543959 2014 QF_{401}	17.5	X	192.76476	246.25452	125.63147	4.41600	0.1311631	0.23085640	2.6317306	21	3 25.9	21.7
543960 2014 QH_{405}	17.5	X	358.95672	8.67598	277.22603	6.27406	0.1262234	0.26760525	2.3849153	21	7 7.4	19.5
543961 2014 QV_{407}	16.1	X	322.73181	35.84959	233.28018	16.28955	0.1380720	0.24593945	2.5230000	21	3 30.7	19.4
543962 2014 QO_{413}	18.3	X	33.90360	251.28518	354.07264	2.85374	0.1719003	0.27417744	2.3466495	21	7 21.8	20.3
543963 2014 QE_{414}	18.6	X	22.13701	133.61345	140.90545	1.99339	0.1750577	0.27850876	2.3222563	21	8 13.9	20.6
543964 2014 QN_{423}	16.6	X	198.69473	14.00591	315.16064	8.99623	0.1094302	0.21535545	2.7565475	21	2 7.2	20.8
543965 2014 QK_{425}	17.7	X	208.83776	43.39462	343.21944	14.55219	0.1141881	0.24262902	2.5458973	21	4 19.8	21.8
543966 2014 QQ_{426}	16.8	X	117.48481	245.59730	288.47790	5.72886	0.0696162	0.26092318	2.4254609	21	7 26.1	19.9
543967 2014 QW_{431}	17.2	X	152.40421	66.72801	33.43483	4.60101	0.1643126	0.22852279	2.6496166	21	6 5.1	21.3
543968 2014 QG_{436}	17.1	X	193.98424	46.50324	284.60165	7.65311	0.2060789	0.21516045	2.7582127	21	2 6.2	21.8
543969 2014 QE_{438}	17.1	X	189.91638	282.62439	133.29584	7.28138	0.0775583	0.22691708	2.6621014	21	5 17.8	21.1
543970 2014 QQ_{440}	17.4	X	23.75265	7.47551	248.38145	5.69930	0.0647090	0.26647383	2.3916613	21	7 4.2	20.1
543971 2014 QV_{440}	16.1	X	30.61410	246.13333	306.35527	14.06223	0.1148835	0.24389508	2.5370792	21	4 7.7	19.2
543972 2014 QX_{440}	16.0	X	89.58566	168.26136	178.01087	22.80004	0.1849373	0.18228822	3.0805646	21	—	—
543973 2014 QC_{441}	17.7	X	293.44964	236.13804	91.41668	2.27873	0.1893817	0.25714401	2.4491672	21	5 4.7	20.9
543974 2014 QE_{441}	16.1	X	145.15020	48.62006	264.84257	9.15482	0.0455420	0.19110070	2.9851159	21	—	—
543975 2014 QF_{441}	17.0	X	189.55111	116.52209	272.77907	8.26534	0.1365565	0.23510393	2.5999368	21	4 7.4	21.2
543976 2014 QQ_{448}	16.8	X	123.36198	211.60245	203.68843	13.38166	0.1904902	0.21158852	2.7891678	21	3 13.5	21.1
543977 2014 QA_{449}	16.5	X	141.30870	258.09156	129.07308	15.56392	0.1598890	0.20432611	2.8548731	21	2 28.5	20.9
543978 2014 QD_{449}	16.2	X	109.92092	232.37088	144.79561	10.62943	0.0847942	0.18598804	3.0395739	21	1 2.9	20.5
543979 2014 QL_{449}	17.4	X	185.24454	190.56961	146.33348	7.21364	0.0446168	0.21269275	2.7795058	21	1 30.9	21.4
543980 2014 QQ_{449}	17.1	X	188.00628	297.01807	114.98217	11.55436	0.2028305	0.23131830	2.6282261	21	5 13.3	21.7
543981 2014 QR_{449}	16.7	X	189.23544	263.12859	134.37054	14.69982	0.1506407	0.22797438	2.6538641	21	4 27.8	21.2
543982 2014 QS_{449}	16.9	X	125.39676	345.02447	113.36404	10.38805	0.1536667	0.22097942	2.7095770	21	5 10.1	21.1
543983 2014 QU_{449}	17.4	X	218.58590	258.61813	140.59622	4.71332	0.1452168	0.24249994	2.5468007	21	5 22.8	21.4
543984 2014 QV_{449}	16.8	X	202.14845	201.01918	144.16940	6.54247	0.0311481	0.21711617	2.7416243	21	3 1.8	20.6
543985 2014 QW_{449}	17.4	X	26.60772	192.22979	22.85367	14.00037	0.0318978	0.23930215	2.5694390	21	5 6.4	20.6
543986 2014 QE_{450}	17.1	X	176.01317	310.80712	133.24524	9.56049	0.1332167	0.23883229	2.5728079	21	6 7.9	21.2
543987 2014 QF_{450}	16.8	X	143.16896	249.24379	170.39173	9.52840	0.1186494	0.21745788	2.7387514	21	4 4.5	20.9
543988 2014 QZ_{451}	17.5	X	205.75936	125.73110	253.25511	3.12584	0.1722814	0.23994486	2.5648487	21	4 12.1	21.7
543989 2014 QC_{452}	16.9	X	279.12121	139.32733	127.61846	5.97811	0.0817590	0.21891448	2.7265893	21	2 16.8	20.6
543990 2014 QL_{452}	16.9	X	181.79562	264.24705	108.13636	7.14968	0.0774378	0.21377765	2.7700940	21	3 17.0	21.1
543991 2014 QM_{452}	17.2	X	238.35103	295.91794	71.17941	10.08229	0.0190536	0.23333431	2.6130656	21	5 13.7	20.8
543992 2014 QF_{457}	17.5	X	238.95146	339.01706	22.24319	14.52189	0.1827677	0.24419006	2.5350356	21	4 19.2	21.5
543993 2014 QV_{457}	17.4	X	220.75951	16.69109	303.47004	6.10653	0.0508864	0.22169880	2.7037124	21	2 16.9	21.2
543994 2014 QH_{458}	17.4	X	127.25964	97.73643	312.57776	6.73645	0.2290437	0.21131876	2.7915410	21	3 15.7	21.8
543995 2014 QP_{460}	17.4	X	68.48036	77.71495	93.92931	4.58440	0.1477050	0.24486886	2.5303485	21	5 28.7	20.2
543996 2014 QV_{461}	17.2	X	122.24933	310.69882	116.44859	9.78402	0.1494352	0.21275368	2.7789752	21	3 28.9	21.4
543997 2014 QQ_{463}	17.0	X	195.64286	248.50270	77.87074	9.96491	0.1778119	0.21477393	2.7615209	21	2 5.8	21.7
543998 2014 QR_{464}	17.3	X	145.57169	310.91160	82.38374	9.88747	0.2174067	0.21479749	2.7613190	21	3 18.7	21.9
543999 2014 QQ_{470}	17.1	X	169.19500	261.16127	95.10848	5.88353	0.1649406	0.21487703	2.7606376	21	2 16.6	21.5
544000 2014 QY_{471}	17.5	X	222.70698	236.00777	144.21974	7.93099	0.0756391	0.23341206	2.6124853	21	5 8.5	21.4