Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
472001 2013 WL_{41}	18.1	X	283.16329	20.48978	52.96333	2.95824	0.1919437	0.27179696	2.3603314	20	10 8.6	20.0
472002 2013 WA_{42}	17.8	X	313.61628	133.19619	258.85879	3.28018	0.1047315	0.27472780	2.3435145	20	10 12.4	20.0
472003 2013 WO_{57}	17.7	X	336.41234	283.34940	84.41175	7.59520	0.1237541	0.27557145	2.3387290	20	10 25.4	19.9
472004 2013 WV_{58}	18.3	X	326.82108	265.77912	127.57469	2.14235	0.2063265	0.28031395	2.3122755	20	11 19.3	19.6
472005 2013 WE_{59}	16.5	X	188.01855	310.87984	68.65633	11.50872	0.1744002	0.21793445	2.7347573	20	4 11.5	21.2
472006 2013 WB_{62}	17.9	X	269.39758	10.16472	77.33512	3.62884	0.1412636	0.27270916	2.3550650	20	10 14.1	20.4
472007 2013 WA_{66}	17.7	X	358.85220	272.96787	94.48060	7.66942	0.2339797	0.28587837	2.2821728	20	12 22.7	19.9
472008 2013 WR_{71}	18.0	X	264.85839	38.55150	48.97974	3.32068	0.1377677	0.26950151	2.3737150	20	10 6.0	20.7
472009 2013 WO_{80}	17.1	X	211.29511	346.94125	88.19475	6.80653	0.2153246	0.23362835	2.6108727	20	7 3.3	21.3
472010 2013 WK_{84}	18.1	X	355.77313	307.28919	92.19440	6.14986	0.1382851	0.29113709	2.2546079	20	—	—
472011 2013 WA_{90}	17.8	X	343.10110	128.10969	259.14737	6.74033	0.1334514	0.28524084	2.2855720	20	12 7.1	19.6
472012 2013 WC_{105}	16.9	X	141.96595	92.71433	79.40217	14.54410	0.1476898	0.23825251	2.5769801	20	9 10.4	21.3
472013 2013 WX_{105}	17.5	X	310.92652	188.93187	214.20725	5.89596	0.2048115	0.27531302	2.3401923	20	10 21.4	18.9
472014 2013 XT	16.4	X	149.89379	25.34919	75.86579	22.81264	0.0268568	0.22752326	2.6573710	20	6 4.3	20.0
472015 2013 XW	17.1	X	218.56917	156.42890	234.01224	7.87033	0.1378591	0.23096279	2.6309224	20	5 19.1	21.2
472016 2013 XM_{5}	18.1	X	35.27777	354.43084	344.59864	6.57049	0.1352411	0.28987131	2.2611666	20	12 19.9	21.0
472017 2013 XR_{7}	17.4	X	271.37006	67.23457	358.94315	9.54159	0.1720582	0.25919166	2.4362510	20	9 8.1	20.0
472018 2013 XD_{13}	16.9	X	355.78028	246.45914	296.85908	2.03344	0.1756498	0.18644984	3.0345529	20	2 19.3	20.3
472019 2013 XW_{17}	17.5	X	237.44948	304.19759	114.13163	14.10687	0.1590006	0.24021729	2.5629091	20	7 12.7	21.1
472020 2013 XF_{18}	16.8	X	228.70791	184.89497	256.71564	16.53133	0.1559468	0.24471125	2.5314349	20	7 28.5	20.9
472021 2013 XH_{18}	16.4	X	141.92448	313.56383	66.21883	11.26237	0.1340278	0.19367310	2.9586245	20	2 29.6	21.1
472022 2013 XQ_{19}	16.2	X	209.79316	324.19120	100.72121	22.78332	0.0248886	0.22524579	2.6752534	20	7 1.9	19.7
472023 2013 XU_{19}	16.7	X	103.61258	285.88617	264.78622	13.60618	0.0772735	0.24118982	2.5560150	20	8 5.9	20.5
472024 2013 XQ_{25}	16.9	X	199.56997	195.29198	259.05219	13.25781	0.1255881	0.24092768	2.5578687	20	7 19.2	21.0
472025 2013 YW_{4}	17.0	X	330.39186	249.94084	101.96102	9.07383	0.1313491	0.25186452	2.4832745	20	9 14.0	19.5
472026 2013 YH_{5}	17.4	X	187.40017	4.91854	110.38495	7.42761	0.2051760	0.23551236	2.5969300	20	8 3.3	21.7
472027 2013 YW_{8}	17.8	X	324.36517	264.48780	121.80576	4.34640	0.2083277	0.26687168	2.3892837	20	10 27.9	19.5
472028 2013 YB_{11}	16.5	X	249.88819	296.55820	123.19702	29.80795	0.2303431	0.24291966	2.5438662	20	7 20.2	20.1
472029 2013 YT_{12}	16.4	X	306.64322	127.72716	75.11032	10.24807	0.0713877	0.18091228	3.0961645	20	1 19.2	20.8
472030 2013 YQ_{13}	16.6	X	173.38166	269.47430	112.74374	10.30855	0.0750666	0.20330240	2.8644487	20	3 30.1	21.0
472031 2013 YN_{17}	18.1	X	297.51199	216.54411	243.44239	1.38002	0.1689557	0.27581279	2.3373645	20	12 23.9	19.9
472032 2013 YX_{19}	16.7	X	254.81217	324.03578	78.74541	7.31769	0.1465848	0.23858166	2.5746094	20	7 14.7	20.2
472033 2013 YL_{23}	16.7	X	239.97411	284.44085	67.01873	6.33037	0.1123910	0.22614674	2.6681433	20	4 25.5	20.6
472034 2013 YR_{28}	17.3	X	135.71647	54.40679	103.31456	8.98978	0.0618859	0.23041743	2.6350720	20	8 5.1	21.1
472035 2013 YL_{29}	18.2	X	334.70680	133.32359	253.40012	1.52910	0.2179904	0.28030512	2.3123241	20	11 28.4	19.5
472036 2013 YB_{30}	16.3	X	290.44633	73.08483	285.24540	13.62409	0.1297288	0.23289596	2.6163434	20	7 4.8	19.4
472037 2013 YN_{31}	16.6	X	267.02722	74.84875	275.48064	10.10422	0.0639922	0.21745593	2.7387678	20	5 31.1	20.3
472038 2013 YQ_{31}	16.4	X	355.63832	12.88900	281.74566	13.32871	0.1589917	0.22843082	2.6503277	20	7 27.8	19.1
472039 2013 YO_{34}	16.5	X	125.45748	261.35207	271.77605	11.41220	0.1108140	0.22821162	2.6520246	20	8 11.1	20.6
472040 2013 YS_{37}	16.4	X	145.36846	243.08686	256.88961	10.47188	0.1459437	0.22517241	2.6758346	20	7 23.4	20.7
472041 2013 YQ_{39}	16.9	X	92.11270	30.11736	128.45547	4.68020	0.0357110	0.20950119	2.8076635	20	6 7.3	20.8
472042 2013 YS_{39}	16.6	X	165.93826	288.28032	134.70484	2.88115	0.0523287	0.20371967	2.8605360	20	5 7.1	20.8
472043 2013 YZ_{39}	17.5	X	229.49913	279.03297	157.62691	4.00736	0.1338533	0.23658037	2.5891085	20	7 30.2	21.1
472044 2013 YD_{40}	16.3	X	61.63404	2.61450	131.84102	13.36694	0.0978745	0.18370115	3.0647482	20	4 10.4	20.5
472045 2013 YS_{41}	17.1	X	237.23646	265.27112	93.43708	14.16352	0.2149122	0.22934522	2.6432785	20	4 27.7	21.6
472046 2013 YY_{42}	16.5	X	188.76838	355.65319	93.33550	15.64132	0.0835479	0.22609433	2.6685557	20	7 4.9	20.4
472047 2013 YL_{43}	17.4	X	232.13031	99.94151	298.97500	5.69162	0.1060004	0.22587217	2.6703052	20	6 16.5	21.3
472048 2013 YD_{46}	18.1	X	333.24872	54.19986	3.49937	3.75592	0.1708680	0.28208919	2.3025642	20	—	—
472049 2013 YS_{46}	15.9	X	296.69527	177.94176	82.40869	11.45716	0.0081324	0.19269303	2.9686481	20	3 29.8	20.2
472050 2013 YE_{49}	16.7	X	217.18795	345.25772	98.01799	14.47885	0.2028937	0.23628231	2.5912854	20	7 20.4	20.8
472051 2013 YY_{49}	16.5	X	304.95016	56.67039	288.84410	14.01698	0.1390037	0.23365921	2.6106428	20	7 8.8	19.5
472052 2013 YE_{50}	17.6	X	328.43418	250.39084	135.36980	4.85373	0.1401250	0.26231027	2.4169028	20	11 1.6	19.8
472053 2013 YJ_{52}	18.0	X	281.11260	132.65854	293.39976	5.46450	0.0803773	0.26802330	2.3824347	20	10 4.9	20.8
472054 2013 YA_{55}	16.9	X	170.80240	11.98656	115.26680	12.98349	0.1366428	0.23299563	2.6155972	20	8 4.9	21.0
472055 2013 YK_{56}	17.0	X	94.70137	219.84053	313.61430	8.27478	0.0327284	0.22388731	2.6860642	20	6 30.9	20.6
472056 2013 YM_{58}	16.4	X	113.50832	61.77041	110.66788	15.75950	0.0302505	0.22904115	2.6456174	20	7 24.0	19.9
472057 2013 YE_{61}	17.0	X	164.27706	143.82359	317.27438	8.17032	0.1121408	0.22044181	2.7139806	20	6 24.6	21.2
472058 2013 YS_{62}	17.7	X	304.11042	273.70867	134.65596	3.63386	0.1735340	0.26346952	2.4098081	20	10 14.4	19.7
472059 2013 YE_{65}	17.7	X	320.47174	28.73492	36.63782	5.04490	0.2555849	0.28060262	2.3106894	20	—	—
472060 2013 YX_{68}	16.2	X	74.73549	175.16172	308.06895	9.45166	0.1511353	0.18411560	3.0601473	20	4 11.5	20.4
472061 2013 YB_{69}	17.5	X	328.02762	106.93654	300.98931	7.53884	0.2317193	0.27167656	2.3610287	20	12 14.8	19.2
472062 2013 YO_{69}	17.6	X	234.70973	118.20083	327.42289	3.60402	0.1333390	0.24084979	2.5584201	20	8 18.4	21.3
472063 2013 YV_{69}	16.2	X	254.66624	180.30276	125.76221	17.15259	0.0660107	0.18366459	3.0651550	20	3 28.1	20.9
472064 2013 YW_{73}	16.9	X	238.36026	311.99183	119.30256	14.26470	0.1803485	0.24080133	2.5587634	20	7 28.8	20.7
472065 2013 YY_{74}	17.3	X	331.86851	302.00739	100.88821	6.15152	0.1300032	0.26889733	2.3772693	20	12 4.3	19.6
472066 2013 YZ_{80}	16.1	X	321.63236	167.78577	107.72802	16.44639	0.1171773	0.20564478	2.8426556	20	5 7.9	19.9
472067 2013 YB_{83}	17.8	X	260.50593	261.45262	144.09994	4.35300	0.1313398	0.24154756	2.5534907	20	7 27.5	21.2
472068 2013 YQ_{83}	18.1	X	268.96676	198.66209	235.41621	3.81838	0.2025895	0.25806054	2.4433648	20	9 6.5	21.1
472069 2013 YM_{84}	17.4	X	355.75377	181.25481	160.69387	4.37288	0.2082312	0.25578738	2.4578194	20	10 26.8	19.5
472070 2013 YB_{87}	16.8	X	211.42911	21.45014	82.15361	6.92730	0.1330705	0.24009850	2.5637544	20	8 18.3	20.7
472071 2013 YW_{89}	16.3	X	273.84719	242.92830	111.90556	6.99135	0.0517631	0.21743562	2.7389383	20	6 17.9	20.0
472072 2013 YJ_{90}	16.8	X	241.81403	110.89801	303.48801	14.28820	0.1307090	0.23151091	2.6267681	20	7 16.6	20.6
472073 2013 YN_{90}	17.0	X	180.17507	309.53320	134.73648	9.83050	0.1401200	0.21634244	2.7481572	20	6 19.2	21.5
472074 2013 YR_{92}	17.3	X	207.07033	175.07787	272.60852	13.53454	0.0905803	0.24369553	2.5384640	20	7 21.9	21.0
472075 2013 YS_{93}	16.1	X	324.18511	269.84901	304.58864	16.09526	0.1097456	0.17560785	3.1582034	20	2 15.3	20.4
472076 2013 YL_{95}	16.7	X	158.37447	316.35283	116.76514	7.80864	0.0511538	0.20389994	2.8588496	20	5 12.8	20.9
472077 2013 YS_{96}	17.8	X	258.03061	219.67707	188.12074	4.43485	0.1479767	0.23954124	2.5677290	20	7 23.8	21.3
472078 2013 YM_{99}	17.0	X	78.87656	174.15482	79.80529	6.05229	0.0902110	0.24533903	2.5271147	20	10 9.9	20.5
472079 2013 YZ_{102}	17.5	X	246.73268	180.98533	257.16167	5.11597	0.1172770	0.25733103	2.4479805	20	8 24.7	20.8
472080 2013 YF_{107}	17.3	X	124.03102	10.44772	127.84345	4.66398	0.0544559	0.21779281	2.7359429	20	6 23.4	21.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
472081 2013 YT_{110}	17.1	X	147.58232	115.84097	38.85797	6.95745	0.1189217	0.24263787	2.5458354	20	8 19.9	21.0
472082 2013 YR_{114}	16.8	X	261.69313	246.62612	116.22184	14.96832	0.1362510	0.22114047	2.7082613	20	6 3.0	20.8
472083 2013 YP_{115}	17.3	X	202.60438	337.14128	115.83141	2.97857	0.1437241	0.23213032	2.6220933	20	7 22.2	21.2
472084 2013 YK_{117}	17.1	X	186.10222	355.51405	97.07545	4.93848	0.1797741	0.22354246	2.6888260	20	7 4.1	21.5
472085 2013 YG_{125}	17.4	X	69.65009	256.27036	332.52260	3.46291	0.0255959	0.22609987	2.6685121	20	8 10.3	20.7
472086 2013 YM_{128}	18.1	X	326.87209	303.74675	119.54689	5.99887	0.2428617	0.28008151	2.3135546	20	—	—
472087 2013 YK_{129}	17.0	X	182.16852	157.76182	305.95712	12.42838	0.1124734	0.23186901	2.6240629	20	7 17.4	21.0
472088 2013 YQ_{129}	17.1	X	167.72058	195.02231	286.35817	6.02226	0.1698827	0.22763089	2.6565332	20	7 23.6	21.4
472089 2013 YP_{143}	17.9	X	254.15015	29.24892	72.66911	4.57697	0.0243924	0.26845573	2.3798757	20	10 28.2	20.7
472090 2013 YG_{144}	17.7	X	143.04258	239.21220	345.42125	6.68813	0.0546516	0.26227753	2.4171039	20	11 10.2	21.1
472091 2013 YO_{144}	17.7	X	246.85539	38.68824	4.89830	5.69312	0.0616751	0.23515624	2.5995512	20	7 18.7	21.3
472092 2013 YA_{148}	17.1	X	191.47069	268.02802	217.30447	3.84352	0.1924137	0.23906346	2.5711490	20	8 18.0	21.4
472093 2013 YU_{148}	17.0	X	140.11450	237.04369	262.37144	8.44048	0.1492152	0.23589095	2.5941507	20	7 19.3	21.2
472094 2013 YD_{149}	17.0	X	183.46842	7.71831	109.17849	7.27655	0.1535303	0.23047416	2.6346397	20	8 3.3	21.1
472095 2014 AB_{2}	16.1	X	132.96710	284.16065	92.95544	8.84485	0.2214186	0.17946378	3.1128021	20	2 25.0	21.2
472096 2014 AU_{7}	16.7	X	248.31052	277.54394	98.54381	7.21142	0.0409085	0.21942262	2.7223782	20	6 14.2	20.4
472097 2014 AD_{8}	16.3	X	155.02619	260.59229	109.43709	16.90139	0.1107029	0.17977408	3.1092192	20	2 29.4	21.3
472098 2014 AM_{21}	17.4	X	289.11982	54.49583	321.72967	10.73137	0.1306019	0.24342149	2.5403688	20	7 30.5	20.2
472099 2014 AB_{22}	17.2	X	259.00919	101.11994	300.14661	10.54026	0.0677583	0.23681101	2.5874271	20	7 29.0	20.7
472100 2014 AF_{22}	17.3	X	25.87024	135.82406	90.87068	5.12211	0.0421298	0.21047876	2.7989633	20	6 7.1	20.9
472101 2014 AF_{27}	16.6	X	254.33105	134.65794	286.50984	15.95073	0.1946946	0.24333909	2.5409423	20	7 28.8	20.3
472102 2014 AU_{29}	15.1	X	18.83202	221.27217	304.74464	26.19402	0.1428125	0.17512243	3.1640368	20	2 28.2	19.3
472103 2014 AV_{29}	17.4	X	305.20344	285.77748	131.86803	5.86156	0.1800909	0.26460380	2.4029164	20	11 1.7	19.4
472104 2014 AA_{31}	16.7	X	127.19592	57.09837	153.38093	14.92474	0.0476051	0.24536856	2.5269119	20	10 7.3	20.4
472105 2014 AC_{36}	16.8	X	195.68862	258.35601	121.44071	5.30153	0.0846979	0.21225838	2.7832965	20	4 17.0	21.0
472106 2014 AP_{42}	16.8	X	160.37500	187.13103	304.47782	12.92777	0.1165634	0.22748991	2.6576306	20	7 29.5	21.0
472107 2014 AT_{42}	16.9	X	246.06468	245.98179	135.41091	7.71795	0.0345885	0.22082449	2.7108442	20	6 19.5	20.7
472108 2014 AE_{43}	16.0	X	337.09896	274.16471	279.40195	23.96452	0.2298238	0.17009445	3.2260861	20	1 22.4	20.0
472109 2014 AS_{52}	16.9	X	303.81759	260.49567	121.14382	15.07723	0.1358317	0.25326266	2.4741267	20	9 6.5	19.6
472110 2014 AB_{53}	16.8	X	207.99562	107.92725	337.65478	12.43865	0.2520816	0.23423495	2.6063631	20	7 14.2	21.4
472111 2014 AJ_{54}	16.9	X	159.89890	221.59405	291.18161	14.10352	0.0312408	0.24051663	2.5607822	20	8 20.9	20.6
472112 2014 BK_{2}	17.2	X	277.37047	240.33005	115.78257	7.07232	0.0608845	0.22216613	2.6999195	20	6 23.1	20.7
472113 2014 BU_{3}	17.0	X	179.44662	0.89573	118.00465	13.17695	0.1327969	0.23321613	2.6139483	20	8 2.5	21.0
472114 2014 BJ_{4}	17.3	X	324.39829	126.37953	312.43389	4.17131	0.0787819	0.28237275	2.3010225	20	—	—
472115 2014 BB_{8}	16.1	X	216.53090	16.99270	323.42300	10.05112	0.0532577	0.18252373	3.0779141	20	3 18.6	20.8
472116 2014 BH_{10}	15.9	X	326.95342	176.61370	112.53770	22.69657	0.1627193	0.21294082	2.7773467	20	5 29.9	19.4
472117 2014 BK_{13}	17.3	X	326.53872	62.88689	317.98675	5.23967	0.1618497	0.25532156	2.4608080	20	10 13.7	19.5
472118 2014 BW_{13}	17.2	X	200.66978	99.83799	346.93668	6.17826	0.0824489	0.22490121	2.6779853	20	7 16.9	21.2
472119 2014 BP_{19}	17.9	X	349.39555	87.62852	308.29525	2.31464	0.1757133	0.27283960	2.3543143	20	—	—
472120 2014 BR_{19}	16.5	X	263.20674	2.16275	308.09540	9.67478	0.0461655	0.18887033	3.0085707	20	4 3.0	20.9
472121 2014 BD_{23}	16.6	X	76.74635	33.02616	164.85072	5.35042	0.0947934	0.21003123	2.8029378	20	7 17.2	20.5
472122 2014 BH_{23}	17.2	X	334.46683	271.43049	147.76736	9.61610	0.1950608	0.27081009	2.3660622	20	—	—
472123 2014 BO_{23}	17.7	X	323.45616	34.86803	338.77151	1.63676	0.2041129	0.25141714	2.4862194	20	9 25.4	19.6
472124 2014 BM_{24}	16.0	X	219.74582	71.69566	274.72988	8.53639	0.0893635	0.18397506	3.0617054	20	3 26.7	20.9
472125 2014 BV_{24}	16.7	X	55.05574	334.55137	188.17914	8.84046	0.0674812	0.18661436	3.0327691	20	4 29.4	20.7
472126 2014 BY_{28}	17.1	X	197.61136	135.79149	292.44450	8.09748	0.0690235	0.22088564	2.7103439	20	6 18.4	21.1
472127 2014 BL_{30}	16.9	X	143.49061	270.36425	205.97536	3.36421	0.1639468	0.21010448	2.8022863	20	6 24.5	21.4
472128 2014 BA_{32}	16.5	X	175.97207	156.36629	302.39248	12.71729	0.1547029	0.21889762	2.7267293	20	7 3.9	20.9
472129 2014 BM_{34}	16.0	X	317.29669	277.72076	327.80575	24.43167	0.1949715	0.17297470	3.1901737	20	3 1.8	20.4
472130 2014 BK_{37}	15.6	X	154.80846	233.19265	153.55167	28.27232	0.1814430	0.17790246	3.1309881	20	3 22.9	20.9
472131 2014 BK_{40}	17.1	X	107.19400	58.83380	60.29608	2.61304	0.0554545	0.19496124	2.9455780	20	5 8.7	21.3
472132 2014 BE_{43}	16.3	X	213.67979	136.27265	327.25369	27.14950	0.0953609	0.23579624	2.5948453	20	8 20.9	19.9
472133 2014 BM_{44}	17.4	X	219.63558	108.49192	324.11004	2.56771	0.0974113	0.22606824	2.6687610	20	7 17.8	21.3
472134 2014 BQ_{53}	16.2	X	80.81037	172.17212	313.84676	10.17206	0.0674572	0.18886156	3.0086639	20	4 10.2	20.6
472135 2014 BW_{53}	17.0	X	324.92319	92.15251	158.42484	1.14256	0.0141172	0.19141927	2.9818029	20	4 15.9	21.0
472136 2014 BG_{54}	16.9	X	295.98776	233.53132	130.92426	15.87216	0.1471804	0.23404801	2.6077508	20	7 19.4	20.1
472137 2014 BY_{57}	15.2	X	43.47564	190.44486	318.23081	22.55399	0.1034384	0.17552188	3.1592346	20	3 16.4	19.6
472138 2014 BJ_{61}	16.4	X	164.82821	156.77195	334.12230	12.96750	0.1105746	0.22403149	2.6849116	20	8 4.8	20.6
472139 2014 BW_{63}	17.4	X	244.31828	286.17414	195.54061	1.91250	0.1422462	0.25415402	2.4683386	20	10 18.8	20.3
472140 2014 BJ_{64}	17.0	X	170.40972	250.87942	214.64837	11.31039	0.2301625	0.22237424	2.6982347	20	7 4.7	21.9
472141 2014 BM_{64}	16.7	X	175.30542	140.16019	347.78752	12.15121	0.0706287	0.22524558	2.6752551	20	8 13.6	20.7
472142 2014 BN_{64}	15.5	X	23.05961	264.17356	263.10458	14.21771	0.1908881	0.17246614	3.1964419	20	3 16.9	19.3
472143 2014 CK_{2}	17.3	X	189.47078	79.87436	343.44668	4.43685	0.1558152	0.21287299	2.7779367	20	5 30.9	21.9
472144 2014 CH_{3}	17.0	X	234.28149	281.92532	139.52906	14.20994	0.1576813	0.23255384	2.6189088	20	7 12.8	21.0
472145 2014 CG_{6}	15.6	X	322.55280	266.79137	332.80553	15.58384	0.1998979	0.17464921	3.1697497	20	3 4.3	19.6
472146 2014 CD_{8}	16.5	X	82.68559	213.93696	276.37154	1.38050	0.0550837	0.18465737	3.0541588	20	4 21.3	20.5
472147 2014 CD_{10}	15.9	X	249.26451	200.71725	104.06770	16.98786	0.1392494	0.17850336	3.1239575	20	3 14.5	21.0
472148 2014 CN_{17}	16.7	X	188.29987	349.80583	147.48362	14.11118	0.1130509	0.23397293	2.6083086	20	9 6.0	20.7
472149 2014 CK_{20}	15.5	X	339.84795	280.16631	307.09983	14.88808	0.2120451	0.17481600	3.1677332	20	3 10.2	19.5
472150 2014 CL_{20}	16.6	X	240.01153	78.97392	336.56550	13.51128	0.0952526	0.23018662	2.6368333	20	7 23.1	20.4
472151 2014 CO_{20}	16.1	X	236.48124	106.40640	331.57284	21.64815	0.0682386	0.23482881	2.6019671	20	8 20.1	19.5
472152 2014 DA_{1}	16.2	X	25.97902	222.37362	310.91464	3.89038	0.1344298	0.17671825	3.1449599	20	4 1.7	19.9
472153 2014 DX_{5}	17.1	X	201.31580	329.71813	140.44906	5.53953	0.1824703	0.22954634	2.6417343	20	8 9.2	21.1
472154 2014 DW_{6}	17.7	X	228.44135	97.60872	345.48013	8.97417	0.1816406	0.23549618	2.5970490	20	8 4.2	21.7
472155 2014 DM_{11}	17.6	X	232.18744	36.71223	39.03188	4.23079	0.1889543	0.23420476	2.6065871	20	7 27.6	21.6
472156 2014 DP_{11}	16.1	X	175.47236	187.87984	288.61924	12.30688	0.0507976	0.21917994	2.7243873	20	7 25.0	20.0
472157 2014 DE_{14}	15.9	X	57.09184	116.14769	55.20009	10.89769	0.0384973	0.18555171	3.0443371	20	5 8.9	20.1
472158 2014 DB_{15}	16.8	X	321.31533	116.04038	144.85768	12.89285	0.0257985	0.19270381	2.9685373	20	4 27.4	21.0
472159 2014 DQ_{18}	17.0	X	236.76743	127.64520	308.33336	3.91001	0.1862032	0.23628378	2.5912746	20	7 31.9	20.7
472160 2014 DK_{19}	16.9	X	161.81961	201.29149	302.76520	4.12545	0.0722282	0.22692987	2.6620014	20	8 15.5	20.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
472161 2014 DC_{23}	17.0	X	251.92993	142.06359	293.11214	4.91887	0.2368335	0.24162534	2.5529427	20	8 9.8	20.5
472162 2014 DQ_{23}	15.8	X	334.37374	270.56128	323.51720	6.93861	0.1050654	0.17408734	3.1765663	20	3 27.3	19.9
472163 2014 DP_{24}	15.6	X	301.99137	270.18693	341.03358	14.97405	0.0810414	0.17191502	3.2032696	20	3 8.9	20.1
472164 2014 DU_{25}	17.4	X	230.94752	70.20924	7.27882	13.00813	0.1994319	0.22963584	2.6410479	20	7 30.7	21.7
472165 2014 DW_{26}	15.9	X	233.41528	168.88286	155.07094	13.50197	0.0623573	0.17729634	3.1381199	20	3 23.1	20.6
472166 2014 DJ_{29}	16.8	X	264.56385	67.52753	328.75200	12.93570	0.1660227	0.23232958	2.6205938	20	7 17.4	20.5
472167 2014 DA_{38}	16.3	X	185.41262	30.22516	354.55255	10.31345	0.1093351	0.17680784	3.1438975	20	4 9.1	21.4
472168 2014 DF_{38}	16.2	X	152.13238	92.20456	350.60439	9.48746	0.0371386	0.18610419	3.0383090	20	5 11.3	20.7
472169 2014 DK_{40}	16.7	X	4.14397	163.16972	118.92466	8.89886	0.0609434	0.21977353	2.7194795	20	7 22.5	19.9
472170 2014 DN_{42}	17.1	X	149.62786	105.08003	56.32902	4.14222	0.0415729	0.22311837	2.6922321	20	8 25.9	20.9
472171 2014 DV_{42}	16.4	X	7.46100	131.07578	135.70746	3.31968	0.0552924	0.19845057	2.9109483	20	7 4.4	20.1
472172 2014 DM_{50}	17.1	X	274.97131	7.95960	33.20196	6.27686	0.0529354	0.22318880	2.6916657	20	8 24.9	20.6
472173 2014 DC_{55}	16.5	X	133.81895	69.21461	12.24212	9.77012	0.1149082	0.18149092	3.0895800	20	4 26.9	21.3
472174 2014 DG_{63}	15.7	X	115.16696	319.70481	155.63389	8.02464	0.1444402	0.18752318	3.0229623	20	5 26.0	20.4
472175 2014 DC_{64}	16.6	X	87.15630	229.73956	8.58831	13.05097	0.1283639	0.21795312	2.7346011	20	9 27.7	20.7
472176 2014 DL_{83}	16.6	X	61.41616	95.25040	54.56742	2.27179	0.0949303	0.17888072	3.1195626	20	4 24.5	20.6
472177 2014 DJ_{85}	17.2	X	273.64673	100.99388	340.94972	3.35661	0.1376143	0.24725095	2.5140702	20	10 5.1	20.1
472178 2014 DD_{91}	16.6	X	171.21257	63.60798	358.13326	1.47957	0.0961925	0.19378110	2.9575251	20	5 11.5	21.0
472179 2014 DK_{91}	16.8	X	2.01087	209.96591	342.59191	18.14164	0.0723836	0.17040444	3.2221724	20	3 17.4	21.1
472180 2014 DT_{97}	15.5	X	339.90649	258.62870	345.72315	17.47754	0.0942352	0.17888809	3.1194768	20	4 13.5	19.7
472181 2014 DC_{103}	16.0	X	287.76004	309.41810	327.18516	25.95621	0.2149684	0.17212660	3.2006441	20	2 29.1	20.9
472182 2014 DB_{104}	16.0	X	108.29915	133.24603	345.73660	14.64653	0.1336031	0.18964436	3.0003788	20	5 14.6	20.7
472183 2014 DX_{104}	17.1	X	159.00532	327.69473	152.71927	5.40931	0.1126106	0.21172559	2.7879640	20	7 12.6	21.4
472184 2014 DF_{105}	17.0	X	314.31739	212.15153	161.17270	4.74550	0.1628685	0.23369076	2.6104078	20	9 3.1	19.5
472185 2014 DB_{106}	17.0	X	301.14537	29.47575	349.20034	5.82121	0.0421000	0.22602492	2.6691020	20	8 31.4	20.2
472186 2014 DW_{108}	16.8	X	342.49868	148.82929	164.21440	6.66156	0.0332239	0.21279094	2.7786508	20	7 30.2	20.3
472187 2014 DT_{111}	17.5	X	181.09257	14.58343	104.67032	3.41050	0.1572254	0.22492368	2.6778070	20	8 3.3	21.7
472188 2014 DG_{116}	16.8	X	209.02175	47.01608	14.77747	2.01476	0.0527189	0.20210786	2.8757243	20	6 23.8	20.9
472189 2014 DU_{123}	17.5	X	206.65727	304.08423	165.76398	3.90410	0.1690750	0.22850893	2.6497237	20	8 14.3	21.7
472190 2014 DR_{128}	17.4	X	231.24336	326.86999	89.34223	0.70683	0.0614120	0.21419488	2.7664957	20	7 13.0	21.2
472191 2014 DW_{128}	17.3	X	241.63456	312.79127	135.39481	3.27431	0.1090536	0.23533125	2.5982622	20	9 2.8	20.8
472192 2014 DW_{129}	16.2	X	278.40769	294.62861	4.13086	8.46965	0.0721008	0.17715381	3.1398029	20	4 8.2	20.7
472193 2014 DK_{130}	16.9	X	195.19960	314.49634	117.29689	3.16045	0.0403443	0.20333931	2.8641020	20	6 21.0	20.9
472194 2014 DC_{131}	16.1	X	268.04907	173.70135	162.19247	18.99758	0.1500771	0.18885486	3.0087350	20	5 6.9	20.8
472195 2014 DK_{133}	16.3	X	295.12172	190.16250	167.78380	5.50276	0.0700693	0.21138033	2.7909989	20	7 18.1	20.0
472196 2014 DE_{142}	17.2	X	240.49617	11.42640	68.28246	4.86758	0.2547770	0.24044191	2.5613127	20	8 3.6	21.1
472197 2014 EG	15.8	X	112.52920	137.43315	334.38117	12.28075	0.1085379	0.18980404	2.9986959	20	5 7.7	20.5
472198 2014 EQ_{6}	16.4	X	135.81584	141.14958	318.29645	0.70627	0.0426099	0.18846446	3.0128886	20	5 16.5	20.7
472199 2014 EH_{8}	16.4	X	71.04887	340.25212	145.40505	11.93148	0.0885289	0.17827800	3.1265896	20	4 9.9	20.7
472200 2014 EJ_{8}	16.5	X	109.45134	7.06149	100.59495	10.98631	0.0491369	0.17918084	3.1160781	20	4 30.9	21.1
472201 2014 EK_{10}	16.3	X	118.31705	74.99711	18.38914	8.99094	0.1185451	0.18375204	3.0641823	20	4 25.9	20.9
472202 2014 EU_{10}	16.4	X	60.56959	96.62419	64.83343	6.41469	0.0763374	0.17938912	3.1136657	20	5 6.4	20.5
472203 2014 EX_{13}	17.1	X	266.21723	302.24935	102.50551	4.80782	0.0488574	0.22203614	2.7009732	20	8 16.3	20.7
472204 2014 EY_{15}	17.1	X	127.00021	327.98218	135.12711	2.78687	0.1421489	0.19067447	2.9895628	20	5 21.8	21.6
472205 2014 EJ_{17}	17.1	X	201.16432	138.72171	295.42449	1.85019	0.1577258	0.21779317	2.7359398	20	6 25.4	21.5
472206 2014 EQ_{17}	16.3	X	332.08480	155.34050	82.00371	6.06526	0.1124252	0.17281887	3.1920911	20	4 2.5	20.4
472207 2014 EU_{20}	16.8	X	273.15137	25.41255	35.61291	5.47723	0.2429654	0.24645108	2.5195070	20	8 21.5	19.8
472208 2014 EY_{21}	15.8	X	47.57188	153.22170	35.58821	28.75085	0.1152455	0.18136716	3.0909854	20	5 19.2	20.1
472209 2014 EE_{22}	17.1	X	126.50535	28.33263	149.88787	5.16327	0.0311872	0.21843334	2.7305917	20	8 16.2	20.9
472210 2014 EJ_{22}	16.0	X	36.54366	173.42515	2.00727	7.97656	0.0084721	0.17784741	3.1316342	20	4 12.1	20.3
472211 2014 EL_{26}	14.2	X	218.53198	350.48208	151.64423	9.79257	0.0404264	0.08290457	5.2089525	20	10 2.7	21.2
472212 2014 EM_{29}	16.5	X	204.94517	294.49095	90.73337	2.98593	0.0937422	0.19060936	2.9902436	20	5 2.5	21.0
472213 2014 EM_{38}	16.6	X	182.85667	330.41180	107.74709	8.04501	0.0363542	0.19814360	2.9139540	20	6 14.8	20.8
472214 2014 EF_{39}	16.3	X	293.53651	317.71607	56.33928	6.76465	0.0510293	0.21823147	2.7322753	20	8 14.2	19.9
472215 2014 EH_{39}	16.0	X	173.31108	246.30811	143.90884	13.22053	0.1844385	0.17715712	3.1397637	20	4 12.9	21.4
472216 2014 EH_{46}	16.4	X	326.84405	251.26873	74.95350	7.38437	0.0421215	0.21105958	2.7938259	20	7 27.3	20.0
472217 2014 EH_{47}	16.6	X	202.26974	279.71929	137.00376	12.80192	0.0079493	0.19764224	2.9188798	20	6 13.4	20.8
472218 2014 EA_{48}	16.6	X	119.12969	38.57060	80.63540	6.77018	0.0913714	0.19065214	2.9897962	20	5 27.9	21.0
472219 2014 FB	17.5	X	355.84042	204.71004	87.97102	23.88358	0.0779249	0.36901953	1.9250255	20	8 20.9	19.6
472220 2014 FB_{3}	16.2	X	330.31346	163.63410	89.93520	10.51476	0.0313598	0.17861956	3.1226025	20	4 29.6	20.6
472221 2014 FK_{4}	16.4	X	330.15042	212.88889	44.17521	10.35582	0.0220184	0.18125421	3.0922693	20	4 30.7	20.7
472222 2014 FN_{4}	16.7	X	134.49901	346.06723	112.59976	8.51840	0.0705649	0.18790738	3.0188404	20	5 19.3	21.3
472223 2014 FV_{45}	16.5	X	52.28212	42.21183	117.15907	10.54347	0.0561458	0.17592853	3.1543645	20	4 23.8	20.9
472224 2014 FR_{49}	15.4	X	99.44584	238.33665	254.86870	10.27385	0.0906407	0.18499834	3.0504050	20	5 21.6	19.7
472225 2014 FD_{51}	16.2	X	316.13260	231.46994	18.25650	9.29404	0.0338474	0.17441896	3.1725386	20	4 2.5	20.4
472226 2014 FU_{53}	16.3	X	85.42434	328.12357	166.58536	9.19581	0.0249034	0.17498724	3.1656662	20	4 29.7	20.8
472227 2014 FF_{64}	16.3	X	253.14793	108.65620	354.53497	14.22597	0.1470575	0.23971434	2.5664927	20	9 29.7	19.6
472228 2014 FL_{64}	15.0	X	192.96842	342.77921	5.83121	19.51688	0.0376131	0.15502604	3.4318867	20	3 12.9	20.1
472229 2014 FD_{66}	16.4	X	238.94402	252.45432	203.68866	13.59982	0.0888287	0.22535934	2.6743547	20	9 7.6	20.4
472230 2014 FG_{66}	15.8	X	42.30883	87.36398	100.10325	9.49065	0.0833249	0.17667663	3.1454538	20	5 16.6	20.0
472231 2014 FU_{71}	5.5	X	353.72036	333.07321	253.09977	2.89712	0.0844831	0.00341185	43.6994308	20	4 28.2	21.5
472232 2014 FW_{71}	5.8	X	282.65362	35.91652	247.64852	13.88862	0.0617207	0.00349060	43.0397459	20	4 5.1	22.1
472233 2014 GG_{32}	15.5	X	153.36239	328.01677	122.60423	11.40130	0.0596819	0.17708908	3.1405679	20	5 29.9	20.3
472234 2014 GA_{41}	16.9	X	41.71972	75.60688	141.62346	11.45199	0.0371954	0.18472040	3.0534641	20	6 17.0	21.2
472235 2014 GE_{45}	6.4	X	351.84110	273.99789	319.35829	0.80838	0.4133152	0.00236702	55.7615616	20	4 21.5	21.6
472236 2014 HF_{12}	16.1	X	242.09694	218.43680	203.47156	10.05956	0.1301490	0.20388184	2.8590188	20	7 21.7	20.5
472237 2014 HE_{43}	15.7	X	118.35888	207.66888	258.56596	9.13050	0.1044584	0.17022450	3.2244427	20	5 11.1	20.5
472238 2014 HZ_{77}	16.6	X	186.24532	289.81950	160.20056	4.44556	0.1528303	0.19687537	2.9264546	20	6 30.6	21.3
472239 2014 HS_{119}	16.2	X	202.85221	265.44451	149.52165	7.90487	0.1803199	0.18181852	3.0858677	20	6 3.1	21.4
472240 2014 HM_{141}	16.7	X	287.25784	21.61422	20.95882	7.51593	0.1387202	0.21323909	2.7747563	20	8 31.0	20.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
472241 2014 HH_{146}	16.2	X	145.60281	277.18169	173.17596	11.36899	0.0689791	0.18609237	3.0384377	20	5 21.2	20.9
472242 2014 JO_{69}	16.0	X	127.91913	249.21061	229.99161	8.59386	0.0833248	0.17489306	3.1668026	20	6 5.7	20.7
472243 2014 KJ_{2}	18.2	X	198.87166	279.13766	64.66105	7.20370	0.2145845	0.30070128	2.2065437	20	3 1.7	21.9
472244 2014 KY_{9}	17.1	X	73.83250	258.75944	68.84603	6.47313	0.2518950	0.22425673	2.6831136	20	—	—
472245 2014 KE_{78}	18.1	X	172.32829	315.79649	223.03299	20.85779	0.0551892	0.38770991	1.8626508	20	11 12.8	19.7
472246 2014 LF_{10}	16.4	X	26.38777	91.32682	212.06223	6.34810	0.1096689	0.19916612	2.9039719	20	9 25.4	20.1
472247 2014 LH_{18}	16.9	X	10.50781	199.93215	161.82028	6.74644	0.1143141	0.21723447	2.7406288	20	11 25.2	20.4
472248 2014 MH_{19}	18.6	X	261.13167	213.69758	297.78866	20.02138	0.0587263	0.39715423	1.8330033	20	—	—
472249 2014 MW_{39}	16.4	X	320.12118	273.59556	100.23938	10.94702	0.1176270	0.17137445	3.2100022	20	9 12.6	20.5
472250 2014 MD_{41}	15.5	X	66.34383	14.23094	140.92228	29.10016	0.1424448	0.17451077	3.1714258	20	5 24.0	20.4
472251 2014 MX_{57}	16.0	X	316.52846	290.77185	93.10265	10.63890	0.0904365	0.17586913	3.1550746	20	9 23.6	20.2
472252 2014 MP_{58}	16.1	X	353.32580	269.79458	98.29373	10.72931	0.1880246	0.18255603	3.0775511	20	11 6.5	19.6
472253 2014 NA	19.2	X	203.53153	245.34241	282.87470	14.86438	0.0577616	0.54377281	1.4865895	20	—	—
472254 2014 OH_{49}	16.7	X	288.47016	322.56115	89.55720	5.42793	0.2248608	0.17388576	3.1790209	20	8 25.9	20.8
472255 2014 ON_{69}	16.0	X	272.99586	331.60245	98.88290	11.25497	0.0696617	0.17705867	3.1409275	20	9 23.9	20.5
472256 2014 OM_{108}	16.8	X	10.57287	308.59381	80.22641	5.49634	0.1109633	0.20946345	2.8080007	20	12 25.9	20.4
472257 2014 OG_{208}	16.7	X	330.38774	211.32557	165.76987	2.81661	0.1259684	0.18378450	3.0638215	20	10 1.6	20.2
472258 2014 OP_{222}	16.7	X	309.54348	103.37366	342.00245	14.49110	0.1231516	0.20515750	2.8471550	20	11 27.3	20.3
472259 2014 PU_{5}	15.7	X	39.17909	7.89429	284.07663	14.47529	0.0445532	0.18158966	3.0884599	20	9 10.2	20.2
472260 2014 QR_{169}	18.3	X	204.54569	237.10568	335.36845	15.25596	0.0936096	0.38501050	1.8713470	20	—	—
472261 2014 QH_{364}	19.1	X	354.03006	0.92322	155.71412	23.83679	0.0834786	0.42579504	1.7498560	20	—	—
472262 2014 QN_{441}	6.6	X	8.97438	242.63667	144.49026	20.68478	0.2823523	0.00314470	46.1406453	20	11 12.2	21.9
472263 2014 RP_{12}	18.2	X	51.76061	96.44693	38.79981	21.08974	0.4864553	0.93436826	1.0362328	20	—	—
472264 2014 SF_{128}	18.5	X	144.89693	201.70461	332.96248	5.54239	0.1169651	0.32480732	2.0959721	20	9 16.5	21.4
472265 2014 SR_{303}	11.2	X	27.84367	6.84951	21.63883	3.03124	0.3132127	0.01690885	15.0334943	20	12 18.1	21.7
472266 2014 SR_{338}	16.3	X	153.02512	283.57422	42.94250	11.86524	0.0891938	0.22354146	2.6888340	20	—	—
472267 2014 TC_{34}	17.8	X	312.82321	238.00376	239.79709	19.20046	0.0821656	0.36874704	1.9259737	20	—	—
472268 2014 TN_{35}	18.9	X	275.03119	295.27324	213.08442	20.64406	0.0682416	0.36749219	1.9303555	20	—	—
472269 2014 TF_{49}	15.7	X	173.42971	169.65861	112.43616	22.11502	0.1391391	0.20973749	2.8055543	20	—	—
472270 2014 UJ_{1}	16.9	X	329.01754	190.66051	78.19928	8.06592	0.0997842	0.27128532	2.3632982	20	5 5.1	19.4
472271 2014 UM_{33}	4.7	X	274.16336	268.68713	236.57112	17.40629	0.1521787	0.00350094	42.9549360	20	11 4.1	21.1
472272 2014 UY_{34}	18.2	X	43.84615	176.69109	246.27189	19.29180	0.0870533	0.38854010	1.8599966	20	—	—
472273 2014 UK_{51}	17.7	X	206.97111	243.65427	225.24413	4.62934	0.0190366	0.30576373	2.1821205	20	9 4.3	20.3
472274 2014 UC_{84}	17.7	X	159.88658	95.28711	49.65923	8.65322	0.0962228	0.29472803	2.2362572	20	8 26.0	20.9
472275 2014 UG_{116}	17.5	X	273.75589	312.09486	234.75861	19.87329	0.0346256	0.38205709	1.8809787	20	—	—
472276 2014 UN_{132}	16.1	X	204.63139	250.54385	103.52675	8.73908	0.0169790	0.22035436	2.7146986	20	3 28.5	20.0
472277 2014 UO_{140}	17.4	X	69.96050	160.49986	309.50968	3.09839	0.1533406	0.23780620	2.5802034	20	3 17.0	20.3
472278 2014 UB_{170}	16.6	X	301.31713	171.32004	55.27144	3.89431	0.0575515	0.23061535	2.6335642	20	2 5.5	20.1
472279 2014 UW_{192}	16.3	X	15.17580	177.84878	287.16225	12.39646	0.0861518	0.21481026	2.7612096	20	—	—
472280 2014 UY_{197}	17.7	X	95.63324	317.72645	250.28114	4.23743	0.0710736	0.30054373	2.2073148	20	8 28.6	20.6
472281 2014 UG_{209}	16.2	X	150.11811	146.87683	205.02423	5.96743	0.0359826	0.22026771	2.7154105	20	1 15.3	20.0
472282 2014 VW_{10}	16.0	X	299.91631	229.91515	256.42606	14.93378	0.1784754	0.17242288	3.1969766	20	12 22.2	19.7
472283 2014 WK_{4}	17.4	X	69.50569	158.13492	45.11265	7.45003	0.0662720	0.27713559	2.3299209	20	7 16.8	20.3
472284 2014 WP_{49}	18.2	X	145.69733	20.91808	120.45440	2.66944	0.1414003	0.28183153	2.3039674	20	7 31.6	21.4
472285 2014 WW_{62}	18.2	X	207.74291	223.03806	239.76677	3.97659	0.0966349	0.30424581	2.1893725	20	8 17.8	21.2
472286 2014 WQ_{71}	17.3	X	3.96497	74.74990	116.44199	4.43369	0.0821549	0.24210443	2.5495736	20	3 16.2	20.1
472287 2014 WU_{119}	17.4	X	248.86210	294.96189	259.05925	17.76386	0.0463424	0.36344176	1.9446711	20	—	—
472288 2014 WT_{120}	18.1	X	161.93867	78.06252	211.58403	21.04369	0.0635086	0.37473336	1.9054072	20	—	—
472289 2014 WM_{124}	17.8	X	91.16417	325.44559	264.66745	4.93178	0.1630586	0.30149585	2.2026652	20	10 2.8	21.0
472290 2014 WT_{165}	16.9	X	111.57719	224.70496	257.51721	5.15538	0.0861836	0.25685290	2.4510174	20	5 20.7	20.3
472291 2014 WG_{195}	15.7	X	4.23294	240.52231	135.21954	10.36124	0.0704694	0.17662542	3.1460617	20	11 20.2	20.0
472292 2014 WK_{205}	16.7	X	304.12321	87.03087	57.64126	22.24236	0.2001045	0.17760683	3.1344616	20	—	—
472293 2014 WX_{353}	15.7	X	324.25879	312.07457	205.81439	15.40105	0.2057202	0.17855927	3.1233054	20	—	—
472294 2014 WB_{355}	16.2	X	41.70677	325.72419	206.72464	13.35319	0.1070810	0.22364458	2.6880074	20	4 23.8	19.1
472295 2014 WW_{362}	18.6	X	105.59303	136.69486	218.51869	19.95115	0.1269250	0.38061774	1.8857178	20	—	—
472296 2014 WP_{389}	17.2	X	149.20382	302.64362	291.13175	5.02114	0.0213073	0.31203569	2.1527811	20	12 15.5	19.8
472297 2014 WR_{389}	17.5	X	211.89833	323.85447	104.29420	10.01610	0.2376347	0.27165053	2.3611796	20	6 24.5	21.3
472298 2014 WP_{393}	16.8	X	50.35101	45.39715	116.50795	22.99363	0.0592787	0.22922242	2.6442224	20	4 28.3	20.7
472299 2014 WC_{428}	16.4	X	71.71080	349.20639	306.85465	27.03512	0.1403171	0.29836592	2.2180427	20	12 9.6	20.1
472300 2014 WN_{429}	15.5	X	101.83727	319.45266	78.01197	12.85192	0.0406699	0.17402937	3.1772716	20	1 23.8	20.1
472301 2014 WY_{480}	16.1	X	253.64626	69.00107	242.68691	13.81638	0.1026607	0.21913965	2.7247212	20	3 14.9	20.4
472302 2014 WO_{481}	16.7	X	163.76393	255.41451	138.72036	22.42435	0.0533267	0.21906254	2.7253606	20	4 2.5	21.0
472303 2014 WK_{493}	16.5	X	107.72580	193.06253	267.89672	14.65088	0.0919309	0.22762062	2.6566131	20	4 13.7	20.5
472304 2014 WP_{493}	15.6	X	325.27476	298.65706	251.75706	13.44211	0.1313584	0.19039722	2.9924643	20	1 13.9	19.7
472305 2014 WH_{495}	15.7	X	263.65992	66.53976	148.06556	16.67954	0.0591796	0.17064634	3.2191267	20	—	—
472306 2014 WG_{496}	16.6	X	68.88628	278.25940	229.73742	11.12623	0.1060421	0.22657235	2.6648010	20	5 1.4	19.8
472307 2014 WC_{499}	17.1	X	59.05188	163.35621	244.52823	19.51813	0.1103460	0.37763397	1.8956377	20	—	—
472308 2014 XN_{9}	17.7	X	71.07866	134.61797	248.65838	17.77500	0.0953406	0.37639632	1.8997909	20	—	—
472309 2014 XM_{14}	17.8	X	97.25636	110.39732	76.86262	7.18175	0.0485734	0.28136068	2.3065371	20	7 30.8	20.7
472310 2014 YP_{4}	17.1	X	27.37857	87.60428	129.52663	13.86867	0.2041407	0.22847856	2.6499586	20	6 15.4	19.9
472311 2014 YK_{6}	17.1	X	302.19524	250.63089	120.07724	6.56611	0.1341577	0.29212839	2.2495045	20	8 20.6	18.9
472312 2014 YO_{6}	17.2	X	155.94523	198.42271	268.75443	4.01423	0.0593667	0.25866131	2.4395800	20	6 22.1	20.4
472313 2014 YV_{6}	15.5	X	293.28040	44.99684	128.16866	9.00199	0.0286430	0.17531609	3.1617063	20	—	—
472314 2014 YV_{8}	18.0	X	163.37263	33.60921	293.84874	18.29466	0.0699595	0.38443747	1.8732061	20	—	—
472315 2014 YA_{10}	16.2	X	75.45752	70.61167	89.18663	10.75340	0.1715034	0.24579789	2.5239686	20	6 7.9	19.4
472316 2014 YD_{10}	16.3	X	286.33088	91.75229	131.84053	26.66227	0.2062668	0.18409671	3.0603566	20	1 3.7	21.2
472317 2014 YR_{21}	18.1	X	78.19019	121.14213	292.52104	18.92048	0.1227523	0.37866978	1.8921793	20	—	—
472318 2014 YR_{28}	17.3	X	296.50717	249.35362	279.83217	17.81504	0.0671394	0.36415835	1.9421191	20	—	—
472319 2014 YT_{32}	17.4	X	288.30217	319.43738	71.47455	5.95134	0.1920951	0.29893901	2.2152070	20	8 18.7	19.4
472320 2014 YO_{35}	17.6	X	238.72585	4.85888	83.27477	5.39476	0.1253521	0.29658637	2.2269062	20	9 6.6	20.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
472321 2014 YT_{43}	17.9	X	357.03439	180.72570	332.75076	20.57278	0.0612462	0.38771517	1.8626340	20	—	—
472322 2014 YB_{44}	18.5	X	196.62766	329.95072	329.36059	18.23654	0.0587157	0.38072176	1.8853743	20	—	—
472323 2014 YF_{45}	17.0	X	160.16870	345.61309	123.47036	12.12512	0.1499374	0.26687142	2.3892853	20	7 2.5	20.7
472324 2014 YA_{47}	17.8	X	30.01428	316.26549	138.77638	23.60029	0.0760854	0.37327221	1.9103764	20	—	—
472325 2015 AU_{56}	18.2	X	182.67380	273.36081	288.17199	3.52480	0.1329652	0.31536471	2.1376043	20	12 2.1	21.0
472326 2015 AP_{76}	17.2	X	59.89389	44.45244	127.22689	9.68693	0.1011066	0.23804626	2.5784684	20	5 23.3	20.5
472327 2015 AJ_{139}	17.8	X	82.88076	246.04777	316.04835	1.37161	0.1634674	0.25876523	2.4389268	20	8 14.3	21.1
472328 2015 AF_{149}	17.2	X	51.50674	240.38329	343.74476	4.16041	0.1473366	0.25352275	2.4724343	20	7 31.5	20.0
472329 2015 AS_{165}	17.3	X	105.45740	7.31554	122.76492	18.42336	0.0901094	0.23952387	2.5678531	20	5 30.0	21.2
472330 2015 AY_{170}	15.9	X	298.68510	227.12145	311.36898	9.35390	0.0678074	0.17591837	3.1544858	20	—	—
472331 2015 AM_{203}	16.5	X	338.63712	211.45808	74.45466	15.01216	0.2000045	0.23782550	2.5800638	20	6 6.5	18.7
472332 2015 AV_{205}	17.4	X	263.64021	294.78526	103.45920	5.76638	0.1583181	0.28726572	2.2748190	20	7 21.3	19.9
472333 2015 AS_{222}	15.3	X	252.85657	325.38579	260.94108	10.06852	0.0249996	0.17625361	3.1504846	20	—	—
472334 2015 AS_{224}	16.1	X	144.60536	170.50110	269.56084	12.70321	0.1848596	0.23944563	2.5684125	20	5 10.2	20.4
472335 2015 AU_{229}	16.8	X	306.17544	354.54127	287.59943	12.42285	0.1358844	0.22735611	2.6586732	20	4 4.8	20.5
472336 2015 AF_{230}	16.4	X	57.96936	19.97037	145.74164	22.30029	0.0475558	0.22907313	2.6453712	20	5 9.2	20.3
472337 2015 AO_{239}	16.7	X	180.34205	204.79333	179.54774	5.62700	0.0402178	0.21942292	2.7223757	20	4 2.9	20.4
472338 2015 AN_{241}	16.4	X	23.33309	97.03801	135.49263	21.94891	0.1011912	0.23562088	2.5961326	20	6 20.2	19.8
472339 2015 AR_{241}	16.8	X	29.50311	263.18952	325.15828	11.44216	0.2189668	0.23082388	2.6319778	20	7 10.3	19.5
472340 2015 AC_{245}	16.2	X	16.20754	170.27748	84.49032	13.28323	0.0928848	0.23923265	2.5699366	20	7 6.7	19.1
472341 2015 AO_{245}	16.8	X	69.59739	58.78068	115.72547	14.32373	0.1774004	0.22939843	2.6428698	20	6 21.3	20.3
472342 2015 AC_{248}	17.5	X	70.60666	139.61277	101.60945	12.58950	0.1902863	0.27680005	2.3318035	20	10 4.6	21.0
472343 2015 AE_{254}	17.3	X	1.33821	239.22277	10.94664	3.27848	0.1842388	0.23766954	2.5811923	20	6 3.3	19.4
472344 2015 AE_{261}	15.9	X	203.61804	75.37511	210.03746	11.31415	0.1142845	0.17930242	3.1146694	20	1 2.9	21.0
472345 2015 AA_{263}	17.4	X	270.40798	270.87936	124.90165	4.23206	0.1535453	0.27696365	2.3308851	20	7 27.4	20.1
472346 2015 AS_{274}	18.4	X	106.49899	147.39576	75.95554	3.08164	0.1596462	0.27875264	2.3209016	20	10 10.4	21.8
472347 2015 AP_{275}	17.9	X	200.88410	57.66902	113.43252	4.13205	0.1218199	0.30116945	2.2042564	20	11 12.8	20.7
472348 2015 BU	17.9	X	176.49239	195.99180	359.49575	3.97188	0.0691901	0.30593180	2.1813213	20	11 20.7	20.6
472349 2015 BM_{2}	16.4	X	158.48331	302.25424	127.77940	22.69580	0.0340228	0.23578872	2.5949004	20	5 13.5	20.5
472350 2015 BR_{6}	17.3	X	210.38467	305.79240	134.56217	22.93117	0.2041354	0.27333721	2.3514561	20	7 11.7	21.2
472351 2015 BH_{11}	18.0	X	135.23743	151.44440	69.65808	5.37787	0.0829011	0.30303848	2.1951837	20	11 7.4	20.8
472352 2015 BR_{17}	16.7	X	277.86990	195.48605	127.41104	5.01015	0.0380204	0.23595069	2.5937128	20	5 14.4	20.1
472353 2015 BF_{18}	15.5	X	298.12664	265.90480	311.85426	24.05928	0.2879594	0.17412919	3.1760573	20	1 2.9	20.5
472354 2015 BS_{24}	16.2	X	281.34153	36.55371	269.81975	4.36697	0.0490124	0.22403825	2.6848577	20	4 22.1	19.8
472355 2015 BV_{26}	16.6	X	7.39675	63.82595	148.75041	8.75072	0.2248215	0.21103425	2.7940494	20	4 24.7	19.1
472356 2015 BR_{28}	18.4	X	72.24939	254.73221	149.27313	23.78884	0.0352971	0.35824439	1.9634346	20	—	—
472357 2015 BT_{28}	16.3	X	299.23451	288.38908	305.69043	16.04462	0.2782018	0.18158361	3.0885285	20	1 19.8	21.0
472358 2015 BL_{29}	17.0	X	319.41703	74.89999	189.73611	5.99578	0.0352115	0.22320826	2.6915092	20	4 23.2	20.4
472359 2015 BF_{30}	16.7	X	350.70551	337.24538	150.19674	15.80537	0.2337681	0.17505652	3.1648309	20	—	—
472360 2015 BG_{30}	16.8	X	322.11401	0.25019	205.39627	2.79310	0.0725508	0.19276486	2.9679106	20	2 7.1	20.8
472361 2015 BN_{30}	15.6	X	278.70093	109.81124	171.65825	5.94613	0.2663575	0.19682177	2.9269859	20	2 22.4	20.1
472362 2015 BW_{30}	17.8	X	60.44269	96.43964	151.45682	4.02981	0.1540241	0.25786402	2.4446060	20	9 17.3	21.0
472363 2015 BX_{30}	16.6	X	27.52311	289.72555	321.27109	12.17038	0.1419667	0.24255207	2.5464358	20	7 29.5	19.4
472364 2015 BJ_{31}	16.6	X	116.86076	281.72781	181.46526	6.39732	0.0382362	0.22313548	2.6920945	20	4 27.9	20.3
472365 2015 BZ_{32}	17.7	X	80.35263	153.47192	101.71490	7.61934	0.0819262	0.28756687	2.2732306	20	10 20.3	20.7
472366 2015 BJ_{34}	18.3	X	103.26021	131.27454	135.42060	3.80497	0.0933744	0.30488505	2.1863111	20	12 2.4	21.2
472367 2015 BQ_{35}	16.0	X	11.44569	343.71706	258.97475	12.50556	0.1138948	0.22635623	2.6664969	20	6 10.9	18.6
472368 2015 BZ_{36}	15.7	X	288.98444	312.05752	289.24670	15.89702	0.2126257	0.17855491	3.1233562	20	1 23.5	20.4
472369 2015 BN_{58}	16.6	X	344.61818	62.95176	112.26736	12.11706	0.0888905	0.19631253	2.9320455	20	1 30.2	20.4
472370 2015 BX_{59}	16.2	X	342.51280	85.23734	122.49197	9.68137	0.0823626	0.20952028	2.8074930	20	3 10.1	19.8
472371 2015 BD_{60}	17.6	X	122.04886	291.34572	327.01973	3.97630	0.1267953	0.30561425	2.1828320	20	12 11.1	20.7
472372 2015 BD_{63}	17.6	X	120.40847	139.36157	67.17207	6.35255	0.1107508	0.27895908	2.3197564	20	10 1.8	20.9
472373 2015 BC_{65}	16.7	X	311.85260	162.50284	114.31740	14.89086	0.2245341	0.22211419	2.7003404	20	4 6.9	20.3
472374 2015 BV_{65}	16.6	X	238.91650	183.17441	106.67924	7.55314	0.0289900	0.20070264	2.8891316	20	2 16.9	20.7
472375 2015 BA_{66}	17.6	X	115.80376	112.39263	99.97883	2.74710	0.1548414	0.27563617	2.3383629	20	10 4.7	21.1
472376 2015 BO_{71}	16.5	X	219.83808	91.59056	293.53255	9.74377	0.0492708	0.24213026	2.5493923	20	5 17.8	20.2
472377 2015 BL_{72}	17.7	X	85.89020	104.04341	291.05687	18.83121	0.0815004	0.36891181	1.9254002	20	—	—
472378 2015 BM_{72}	16.9	X	253.31718	43.96134	258.38696	6.38580	0.1237856	0.21579164	2.7528316	20	3 3.9	21.1
472379 2015 BM_{88}	17.3	X	140.38510	288.64109	296.24364	4.16311	0.0602507	0.29902459	2.2147844	20	11 15.9	20.3
472380 2015 BC_{89}	17.9	X	132.76609	72.74858	119.73627	4.25120	0.1214161	0.27540673	2.3396615	20	9 25.1	21.4
472381 2015 BW_{90}	16.6	X	93.36403	315.26812	145.70748	4.56317	0.0614317	0.21003055	2.8029439	20	3 30.1	20.4
472382 2015 BN_{92}	18.0	X	159.82452	181.55396	142.09521	24.93348	0.0879343	0.37025598	1.9207374	20	—	—
472383 2015 BX_{93}	16.0	X	288.77087	56.96100	150.75797	9.22998	0.0501639	0.18095938	3.0956272	20	1 5.1	20.5
472384 2015 BE_{100}	16.5	X	23.92851	253.16222	316.49232	12.86121	0.1618588	0.22337648	2.6901578	20	5 16.1	19.6
472385 2015 BY_{100}	16.7	X	304.00602	167.47889	146.81282	7.27681	0.1916002	0.24213528	2.5493571	20	5 16.1	19.8
472386 2015 BZ_{101}	17.2	X	126.00223	62.74542	128.37857	7.93682	0.0685465	0.26981583	2.3718712	20	9 13.2	20.4
472387 2015 BH_{104}	16.6	X	96.04921	344.66848	118.27309	16.91835	0.0293401	0.22394727	2.6855848	20	4 5.7	20.6
472388 2015 BZ_{122}	18.3	X	68.88490	179.21388	107.04803	4.86510	0.1660720	0.29592580	2.2302189	20	11 25.2	21.5
472389 2015 BF_{130}	17.4	X	132.08142	333.34783	129.73157	22.39999	0.0432985	0.23868227	2.5738858	20	5 23.8	21.5
472390 2015 BS_{130}	16.8	X	106.02923	320.93236	127.96479	10.34358	0.1550628	0.22255283	2.6967911	20	4 15.3	20.8
472391 2015 BU_{132}	17.6	X	75.87696	153.48841	62.22498	2.46997	0.1497768	0.25736995	2.4477337	20	8 23.6	20.8
472392 2015 BK_{139}	18.2	X	92.10305	154.52349	94.29118	7.37119	0.0694155	0.28773531	2.2723433	20	10 24.3	21.2
472393 2015 BQ_{143}	17.9	X	109.19497	197.56493	73.12770	5.54911	0.1527161	0.30299931	2.1953728	20	12 14.2	21.2
472394 2015 BU_{143}	15.6	X	216.74687	179.30733	112.97858	14.31811	0.0786127	0.18790993	3.0188131	20	1 24.3	20.1
472395 2015 BZ_{146}	17.0	X	291.85042	209.85909	88.37135	3.38109	0.1912647	0.22935472	2.6432055	20	4 6.7	20.5
472396 2015 BE_{157}	16.8	X	25.66624	45.86094	152.70232	8.43826	0.1496279	0.21172754	2.7879468	20	5 9.8	19.9
472397 2015 BY_{158}	17.6	X	111.93335	299.89102	261.43502	5.19467	0.0700252	0.27274456	2.3548612	20	9 4.9	20.9
472398 2015 BD_{184}	16.6	X	319.50329	163.45382	83.77944	8.11569	0.0589636	0.21780551	2.7358366	20	4 1.1	20.2
472399 2015 BQ_{186}	17.9	X	82.76720	267.16666	0.88565	6.62077	0.1159693	0.28983763	2.2613417	20	11 7.3	21.0
472400 2015 BW_{193}	18.0	X	102.82060	108.05911	116.53251	8.12833	0.0647590	0.27902256	2.3194046	20	10 3.2	21.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
472401 2015 BC_{196}	17.4	X	48.39523	191.58938	62.78203	5.46629	0.1530603	0.26144290	2.4222455	20	9 12.6	20.3
472402 2015 BO_{197}	18.5	X	60.60143	140.68629	120.03416	8.44969	0.1785045	0.27368484	2.3494645	20	10 14.3	21.8
472403 2015 BE_{227}	18.5	X	97.24993	242.94638	29.64715	3.53812	0.1580429	0.31086507	2.1581822	20	12 6.6	21.8
472404 2015 BP_{240}	16.7	X	354.12155	238.12640	295.95783	6.70961	0.0696853	0.20154587	2.8810676	20	2 10.2	20.5
472405 2015 BT_{241}	17.3	X	106.25050	315.07585	286.22551	6.78597	0.0297156	0.29513765	2.2341876	20	10 22.9	20.2
472406 2015 BM_{242}	17.7	X	164.87313	259.75777	286.27843	5.31712	0.1123605	0.29278055	2.2461628	20	10 18.2	20.9
472407 2015 BX_{243}	18.1	X	170.80187	25.13564	153.92051	4.55409	0.0668437	0.29437272	2.2380563	20	10 23.2	21.0
472408 2015 BC_{244}	17.7	X	135.69983	302.18655	155.65450	7.92671	0.0339091	0.23794174	2.5792234	20	5 15.0	21.3
472409 2015 BY_{245}	17.7	X	143.21297	254.82240	295.20864	5.61035	0.0927502	0.28379571	2.2933244	20	9 28.4	21.0
472410 2015 BR_{246}	17.7	X	148.22561	294.16715	243.69783	1.21092	0.1372853	0.27903678	2.3193257	20	9 19.7	21.1
472411 2015 BE_{250}	16.6	X	321.03560	92.26267	128.84738	15.73303	0.1076921	0.20111623	2.8851693	20	2 21.9	20.4
472412 2015 BR_{250}	17.4	X	10.01608	257.47592	335.40602	3.24785	0.1501895	0.22909232	2.6452234	20	5 25.1	20.0
472413 2015 BR_{252}	17.6	X	116.20449	42.10380	183.56332	3.69453	0.1800008	0.28020745	2.3128614	20	10 22.9	21.2
472414 2015 BN_{254}	16.8	X	89.22983	286.75458	285.28526	5.75486	0.1592621	0.26099598	2.4250098	20	9 1.1	20.3
472415 2015 BB_{259}	17.3	X	75.00910	299.16451	297.48022	6.64925	0.0646536	0.27272483	2.3549748	20	9 5.5	20.4
472416 2015 BD_{261}	17.7	X	74.00384	136.00530	140.14319	5.26639	0.1988899	0.29024543	2.2592231	20	11 20.1	21.1
472417 2015 BU_{262}	16.6	X	42.34220	20.60665	151.65536	14.20620	0.0187767	0.21637581	2.7478746	20	4 20.6	20.5
472418 2015 BV_{262}	17.5	X	58.64846	232.27388	332.02452	11.26420	0.1297049	0.23737257	2.5833447	20	7 11.0	20.8
472419 2015 BU_{263}	16.9	X	140.91619	267.72674	259.31580	10.17922	0.1725286	0.26455927	2.4031860	20	8 24.1	21.0
472420 2015 BT_{264}	17.3	X	47.16847	295.50711	301.84589	9.93547	0.1480950	0.23811924	2.5779415	20	8 8.8	20.5
472421 2015 BV_{268}	18.4	X	125.44592	333.24481	278.94456	3.86711	0.1194303	0.30631368	2.1795080	20	12 6.9	21.6
472422 2015 BO_{269}	16.8	X	280.84868	203.81260	98.74960	3.31501	0.0640441	0.22735643	2.6586707	20	4 17.2	20.3
472423 2015 BB_{273}	17.0	X	24.72290	47.94319	121.85769	5.82742	0.0893757	0.21019595	2.8014733	20	3 25.1	20.3
472424 2015 BB_{276}	16.1	X	238.82507	303.13675	338.91214	8.64954	0.0589315	0.18372953	3.0644326	20	2 6.9	20.6
472425 2015 BE_{277}	16.5	X	195.30208	248.09333	145.46583	11.41322	0.1693638	0.23227990	2.6209674	20	5 3.5	21.0
472426 2015 BN_{277}	16.2	X	219.25101	308.73391	347.09402	9.55676	0.1923272	0.17610817	3.1522190	20	1 31.1	21.6
472427 2015 BA_{278}	17.0	X	314.40813	107.20841	177.08260	2.86299	0.0662558	0.23184595	2.6242369	20	5 8.2	20.3
472428 2015 BU_{278}	16.1	X	260.19211	106.46422	145.46517	9.18636	0.0351065	0.18565391	3.0432198	20	1 25.6	20.5
472429 2015 BD_{296}	17.1	X	87.26592	277.16657	185.07768	11.36320	0.2552912	0.21854141	2.7296915	20	4 21.4	20.8
472430 2015 BK_{297}	17.6	X	76.96244	39.81774	133.42268	9.29505	0.1600933	0.22996186	2.6385511	20	6 26.1	21.2
472431 2015 BZ_{297}	17.4	X	296.90280	282.03461	104.15837	4.71650	0.2171479	0.28229237	2.3014592	20	8 20.1	19.1
472432 2015 BG_{298}	17.7	X	50.81172	292.11901	146.70943	23.46217	0.1082724	0.36244714	1.9482272	20	—	—
472433 2015 BK_{299}	16.8	X	40.59037	87.13179	151.30566	15.76902	0.1197016	0.23714492	2.5849977	20	7 26.5	20.0
472434 2015 BF_{300}	17.8	X	188.59426	26.01386	108.02123	6.98532	0.1680245	0.27265208	2.3553937	20	9 3.8	21.4
472435 2015 BJ_{300}	16.8	X	102.09645	202.41571	39.15982	7.24850	0.0829352	0.27347165	2.3506854	20	10 22.4	19.9
472436 2015 BW_{300}	16.6	X	358.16855	125.44855	150.92906	13.26260	0.1904600	0.22818927	2.6521978	20	7 8.4	19.3
472437 2015 BL_{303}	16.0	X	319.96244	100.03290	132.01800	12.36603	0.1424249	0.18741863	3.0240865	20	3 2.6	19.9
472438 2015 BV_{303}	15.9	X	115.04104	268.26330	124.54810	8.91435	0.0418632	0.17037809	3.2225047	20	2 2.3	20.3
472439 2015 BV_{304}	18.1	X	193.31228	83.84040	105.25188	7.16516	0.0410782	0.29799840	2.2198660	20	12 7.3	20.7
472440 2015 BE_{305}	16.3	X	46.58494	224.02389	2.01052	22.95026	0.0748569	0.23587578	2.5942619	20	7 21.2	20.1
472441 2015 BO_{306}	15.6	X	278.48736	107.75794	71.85496	11.19218	0.0530043	0.17489107	3.1668266	20	—	—
472442 2015 BZ_{306}	17.3	X	234.79915	12.56889	43.27425	7.72296	0.1135647	0.27115642	2.3640471	20	7 14.8	20.6
472443 2015 BM_{312}	18.3	X	102.34756	248.40175	108.57364	24.04342	0.0881426	0.36632867	1.9344408	20	—	—
472444 2015 BN_{313}	16.4	X	351.85721	42.71994	129.05858	10.16123	0.0606173	0.19318634	2.9635922	20	2 8.1	20.3
472445 2015 BK_{318}	17.0	X	253.43713	169.59969	105.65529	3.17900	0.0196264	0.20326180	2.8648301	20	2 15.8	21.0
472446 2015 BY_{318}	16.9	X	321.20529	314.75331	324.59765	7.84178	0.1619547	0.23505739	2.6002800	20	4 23.0	19.9
472447 2015 BK_{321}	17.1	X	272.50172	227.00083	80.84486	6.20358	0.1285413	0.22886501	2.6469746	20	4 5.9	20.9
472448 2015 BL_{323}	17.5	X	70.52726	242.87297	0.10407	6.50206	0.1369529	0.26993692	2.3711618	20	9 21.9	20.5
472449 2015 BV_{325}	16.1	X	110.45274	282.29847	93.38016	3.40604	0.1228713	0.18621268	3.0371288	20	1 16.1	20.3
472450 2015 BJ_{326}	17.4	X	92.14982	281.41434	326.35083	6.73237	0.0914326	0.28468223	2.2885609	20	10 17.6	20.7
472451 2015 BY_{332}	17.9	X	75.44078	179.22094	104.50362	4.67444	0.1314037	0.29812548	2.2192351	20	11 25.9	21.0
472452 2015 BO_{350}	15.7	X	348.84416	81.74796	14.69060	7.61855	0.1200252	0.17158534	3.2073715	20	—	—
472453 2015 BR_{354}	17.9	X	114.14016	305.36888	278.54099	1.85519	0.1769414	0.27535815	2.3399366	20	10 16.6	21.6
472454 2015 BF_{356}	18.1	X	228.97746	351.21704	134.75151	2.42074	0.0856806	0.29503756	2.2346929	20	10 21.6	20.6
472455 2015 BZ_{388}	17.5	X	83.87322	185.93335	82.33754	7.72280	0.1554934	0.29096853	2.2554786	20	11 16.2	20.8
472456 2015 BQ_{390}	17.7	X	329.85772	213.18434	107.88145	3.48216	0.0933045	0.26539577	2.3981337	20	7 25.4	20.0
472457 2015 BA_{407}	18.3	X	66.82635	0.40470	309.82225	1.74357	0.0817834	0.30486279	2.1864175	20	12 16.6	21.2
472458 2015 BJ_{407}	16.4	X	322.84672	149.20004	135.33849	15.53687	0.1695858	0.23274864	2.6174473	20	5 13.0	19.6
472459 2015 BF_{408}	17.6	X	26.65363	281.26229	330.13589	7.57797	0.2196238	0.24267452	2.5455791	20	8 9.4	19.9
472460 2015 BU_{413}	18.1	X	103.30962	145.26943	66.73168	2.34917	0.1414932	0.26741738	2.3860322	20	9 19.3	21.5
472461 2015 BN_{414}	18.2	X	97.59061	200.66328	89.55639	4.46486	0.0243612	0.31176707	2.1540175	20	12 25.2	20.8
472462 2015 BD_{415}	16.8	X	283.57793	107.83866	128.07738	17.56478	0.1614631	0.18407848	3.0605586	20	1 18.5	21.4
472463 2015 BR_{416}	16.6	X	240.68935	156.50924	133.94404	13.46845	0.0735599	0.19634628	2.9317095	20	2 15.5	20.9
472464 2015 BN_{417}	17.3	X	8.17170	132.05394	123.37243	7.41401	0.1997437	0.23528865	2.5985759	20	6 30.2	19.4
472465 2015 BW_{422}	17.5	X	239.33537	205.99946	156.23614	3.02438	0.0520480	0.23714487	2.5849981	20	5 14.2	21.0
472466 2015 BJ_{425}	17.1	X	288.05109	110.87629	140.80479	15.86379	0.0953753	0.19684349	2.9267705	20	2 18.8	21.3
472467 2015 BB_{438}	17.4	X	57.19147	140.03279	102.48811	3.11675	0.1452485	0.25503558	2.4626472	20	9 4.4	20.5
472468 2015 BZ_{440}	16.7	X	250.23867	122.42750	142.95778	17.10383	0.1769157	0.17771632	3.1331740	20	1 19.8	21.9
472469 2015 BV_{441}	17.3	X	25.93346	102.40552	142.56072	10.00373	0.1652155	0.23780948	2.5801796	20	7 17.8	20.1
472470 2015 BR_{451}	17.6	X	25.86181	306.97250	345.71957	7.83242	0.1252378	0.26660035	2.3909045	20	9 24.3	20.2
472471 2015 BL_{459}	17.0	X	215.42979	219.46914	139.71698	6.77119	0.0517649	0.22238004	2.6981878	20	4 13.7	20.9
472472 2015 BH_{461}	17.8	X	76.36283	280.58520	342.97563	7.62849	0.0986628	0.27886083	2.3203012	20	10 19.9	20.9
472473 2015 BJ_{463}	17.7	X	4.80227	262.99498	352.33216	7.72153	0.1703162	0.23427891	2.6060371	20	6 20.0	20.2
472474 2015 BD_{468}	16.1	X	256.23340	132.56101	125.37411	10.07549	0.0773374	0.18256973	3.0773971	20	1 25.1	20.6
472475 2015 BF_{468}	16.7	X	202.90035	280.28929	133.04907	15.13169	0.0663937	0.24414469	2.5353496	20	6 7.9	20.6
472476 2015 BH_{472}	17.5	X	73.91335	353.62820	280.33763	6.33948	0.1597842	0.28952970	2.2629449	20	11 10.1	20.7
472477 2015 BP_{482}	17.7	X	131.97498	322.55520	248.80587	2.74372	0.0766255	0.28830883	2.2693288	20	10 16.9	20.9
472478 2015 BT_{486}	16.5	X	272.27123	110.47543	136.67007	22.06229	0.2597768	0.18128471	3.0919225	20	1 11.7	21.8
472479 2015 BK_{491}	16.4	X	298.58483	172.21139	130.91674	8.86061	0.0668269	0.23816358	2.5776215	20	5 13.3	19.8
472480 2015 BE_{499}	17.9	X	44.26004	146.16597	154.48765	4.13689	0.1471186	0.28727987	2.2747443	20	11 12.2	20.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
472481 2015 BZ_{500}	17.9	X	55.55672	36.51877	219.77606	1.42014	0.1010836	0.26731113	2.3866644	20	9 13.9	20.8
472482 2015 BC_{502}	16.4	X	255.50480	160.12912	153.00877	12.70630	0.1434164	0.21931752	2.7232478	20	3 22.9	20.5
472483 2015 BK_{512}	16.9	X	81.28040	315.69511	178.88464	3.18181	0.1056567	0.22692776	2.6620179	20	5 2.2	20.2
472484 2015 BL_{512}	17.6	X	136.02765	84.23116	332.29516	5.54304	0.2324595	0.23063360	2.6334253	20	4 6.6	21.9
472485 2015 BC_{513}	18.6	X	98.07122	253.56502	124.74653	27.04553	0.2081030	0.36583143	1.9361933	20	—	—
472486 2015 CH_{5}	17.1	X	82.02259	343.22661	142.45376	4.91259	0.1091186	0.22579579	2.6709073	20	4 23.1	20.5
472487 2015 CN_{7}	17.9	X	40.09200	330.96609	311.30847	1.95887	0.1692548	0.27042892	2.3682850	20	10 9.8	20.6
472488 2015 CU_{8}	17.2	X	149.58981	301.66990	223.56943	5.86075	0.1319152	0.27182476	2.3601705	20	9 1.7	20.8
472489 2015 CF_{9}	17.6	X	95.89937	285.12044	274.86508	2.39808	0.1369040	0.25877228	2.4388825	20	8 22.4	21.0
472490 2015 CB_{10}	16.1	X	219.45453	131.93249	157.43777	11.27066	0.1325762	0.17975700	3.1094161	20	1 21.7	21.3
472491 2015 CK_{10}	17.1	X	91.55022	292.00301	269.55450	4.34149	0.1290980	0.25598968	2.4565244	20	8 17.4	20.6
472492 2015 CL_{11}	17.5	X	87.87471	337.41984	336.03531	4.19319	0.0933564	0.30899001	2.1669044	20	—	—
472493 2015 CO_{11}	17.5	X	202.48366	155.63496	331.86877	3.61586	0.1005946	0.27843916	2.3226432	20	9 12.9	20.6
472494 2015 CU_{11}	17.6	X	105.68608	244.03559	333.85492	5.13673	0.0875466	0.26795102	2.3828632	20	9 22.4	20.9
472495 2015 CV_{11}	16.9	X	5.73454	87.75232	157.10414	12.95068	0.1554303	0.22486631	2.6782624	20	6 7.1	19.9
472496 2015 CB_{15}	17.2	X	126.23248	198.44885	349.74460	11.48530	0.1986761	0.26991122	2.3713123	20	9 13.3	21.0
472497 2015 CC_{17}	15.9	X	318.65439	53.74864	125.05090	17.89946	0.1984784	0.17610026	3.1523134	20	—	—
472498 2015 CH_{20}	15.8	X	304.57090	79.74724	111.71452	22.19435	0.1404946	0.17623654	3.1506881	20	—	—
472499 2015 CN_{21}	17.9	X	53.99275	332.79078	340.87403	4.69929	0.1898362	0.30062853	2.2068997	20	12 17.3	21.0
472500 2015 CA_{23}	17.2	X	136.63282	23.62063	138.11482	2.40148	0.1327475	0.25946932	2.4345127	20	8 16.4	20.9
472501 2015 CR_{23}	16.1	X	123.13296	46.08244	344.65608	6.02956	0.0370653	0.18429835	3.0581239	20	2 7.7	20.4
472502 2015 CS_{23}	16.5	X	308.39144	51.68986	166.42962	8.74590	0.0485401	0.18714450	3.0270389	20	2 8.7	20.8
472503 2015 CD_{27}	18.5	X	68.87831	312.15155	302.40655	2.16587	0.1432080	0.27105247	2.3646515	20	10 5.3	21.7
472504 2015 CB_{28}	16.9	X	56.20850	237.66635	1.10678	6.04393	0.1180348	0.25233324	2.4801983	20	8 24.4	19.9
472505 2015 CO_{28}	17.3	X	214.85335	63.92915	353.71315	7.05698	0.1047363	0.26016091	2.4301963	20	6 22.7	20.9
472506 2015 CT_{29}	16.9	X	211.61976	190.07551	147.61784	5.91659	0.0277489	0.20922263	2.8101550	20	3 13.4	20.8
472507 2015 CD_{30}	17.7	X	63.04536	93.85631	159.75737	3.11636	0.1436853	0.26656843	2.3910954	20	9 28.1	20.6
472508 2015 CM_{30}	16.7	X	291.53066	201.91581	76.03011	4.37329	0.0445635	0.21920327	2.7241940	20	4 2.9	20.3
472509 2015 CZ_{31}	17.5	X	61.65904	194.11818	40.97376	4.25305	0.1273361	0.25822825	2.4423067	20	8 29.5	20.6
472510 2015 CF_{32}	17.4	X	128.54003	227.34500	341.31589	9.56583	0.1114256	0.27406561	2.3472878	20	10 5.9	21.0
472511 2015 CW_{32}	17.3	X	33.40221	67.07822	150.28587	13.98051	0.1598209	0.22401384	2.6850527	20	6 20.6	20.5
472512 2015 CM_{35}	16.9	X	107.91649	24.81234	92.83492	8.71369	0.1454988	0.23622496	2.5917048	20	5 20.5	20.7
472513 2015 CM_{36}	16.2	X	347.42412	77.56053	84.88782	9.69498	0.1553473	0.18995129	2.9971459	20	1 11.4	19.9
472514 2015 CZ_{36}	18.4	X	154.61218	146.82960	44.20416	5.40709	0.1502697	0.28785754	2.2717000	20	10 15.8	21.9
472515 2015 CQ_{38}	16.6	X	312.78325	173.26651	86.26755	14.21575	0.1391273	0.22474897	2.6791945	20	3 30.3	20.3
472516 2015 CY_{38}	17.8	X	141.25334	109.80138	69.45215	3.95124	0.1260416	0.27205240	2.3588537	20	9 16.4	21.4
472517 2015 CN_{39}	17.2	X	16.31640	230.75608	340.65340	13.94754	0.1352609	0.21341894	2.7731972	20	4 29.2	20.6
472518 2015 CL_{41}	18.3	X	238.02971	140.30993	346.95858	5.61830	0.0985837	0.30296072	2.1955593	20	11 1.5	20.8
472519 2015 CM_{43}	17.8	X	65.68793	99.74449	154.30156	7.17777	0.0876658	0.26772112	2.3842272	20	9 24.9	20.8
472520 2015 CL_{44}	17.2	X	54.24696	80.95760	165.20089	6.64228	0.1307213	0.25672219	2.4518493	20	9 1.4	20.1
472521 2015 CO_{46}	17.3	X	85.45081	314.62415	319.02033	6.52180	0.0772422	0.28536656	2.2849007	20	11 12.9	20.5
472522 2015 CF_{47}	17.3	X	16.67109	256.51329	354.13113	8.55675	0.0879552	0.23303201	2.6153250	20	7 1.8	20.4
472523 2015 CP_{48}	17.0	X	36.31121	274.21428	6.18530	6.79135	0.0825418	0.26217252	2.4177493	20	9 17.9	19.9
472524 2015 CR_{48}	17.3	X	26.17321	148.72667	145.02517	8.85147	0.1927967	0.25807161	2.4432949	20	10 11.3	20.1
472525 2015 CX_{49}	17.2	X	0.40822	230.08650	53.48193	3.79509	0.0934256	0.24168478	2.5525241	20	7 22.9	19.9
472526 2015 CL_{51}	18.0	X	232.74069	200.39328	297.09414	4.28566	0.1364330	0.29616885	2.2289986	20	11 1.1	20.6
472527 2015 CZ_{52}	17.5	X	125.57772	109.29505	146.99745	7.57268	0.1330089	0.28579989	2.2825905	20	12 9.5	21.0
472528 2015 CD_{54}	16.0	X	25.70624	300.61857	178.40713	16.66834	0.1857398	0.17913975	3.1165547	20	1 21.4	19.7
472529 2015 CW_{57}	16.0	X	204.51505	179.18833	165.99938	11.02832	0.1701941	0.19225168	2.9731897	20	3 12.6	20.8
472530 2015 CP_{58}	16.1	X	13.75579	117.18959	111.00457	12.33920	0.1384572	0.20926194	2.8098030	20	5 29.3	19.3
472531 2015 CJ_{61}	16.5	X	147.72635	168.37230	315.49454	13.77411	0.0526693	0.24568280	2.5247568	20	7 6.2	20.1
472532 2015 CW_{61}	16.9	X	29.12212	94.21923	150.42722	13.09344	0.2262380	0.22997472	2.6384527	20	8 1.2	19.6
472533 2015 DE	16.2	X	156.29649	260.73769	151.51477	7.47283	0.1212275	0.21613548	2.7499113	20	4 17.9	20.5
472534 2015 DG	17.6	X	183.77370	19.33193	141.02867	7.07573	0.0734340	0.27992628	2.3144098	20	10 11.7	20.7
472535 2015 DS_{2}	17.4	X	355.39937	130.25581	155.47203	6.05804	0.1062556	0.26236962	2.4165383	20	7 17.3	19.9
472536 2015 DS_{3}	15.9	X	297.97444	81.83886	123.04758	12.17218	0.1533533	0.18546961	3.0452354	20	—	—
472537 2015 DC_{17}	17.6	X	46.00896	194.62239	107.13197	6.58702	0.1739774	0.28001087	2.3139437	20	11 18.7	20.6
472538 2015 DC_{19}	17.9	X	6.10486	249.40444	101.81594	3.77615	0.0855516	0.29223970	2.2489333	20	11 19.1	20.2
472539 2015 DE_{21}	18.3	X	164.86115	129.24140	113.96881	3.35770	0.0610425	0.31388522	2.1443161	20	—	—
472540 2015 DL_{22}	17.3	X	47.72510	277.90243	24.78209	5.47652	0.1845503	0.28009949	2.3134556	20	11 20.4	20.3
472541 2015 DW_{23}	17.8	X	41.58304	197.74000	105.15587	2.49830	0.1897550	0.27592150	2.3367505	20	11 14.9	20.8
472542 2015 DW_{25}	17.7	X	143.38611	184.87163	2.60725	6.88314	0.0513373	0.27533909	2.3400446	20	9 26.8	20.9
472543 2015 DN_{26}	17.4	X	34.28814	163.79244	84.04357	4.35818	0.1259146	0.24338720	2.5406074	20	8 2.7	20.2
472544 2015 DJ_{29}	17.5	X	188.80312	131.58646	25.43481	7.29093	0.0545864	0.28511348	2.2862526	20	10 13.6	20.4
472545 2015 DL_{31}	17.3	X	11.92978	113.73888	136.71578	15.98393	0.1604071	0.23011391	2.6373886	20	6 28.1	20.2
472546 2015 DH_{32}	17.0	X	71.92273	52.10785	143.67777	13.29982	0.0987260	0.23920477	2.5701363	20	7 10.5	20.4
472547 2015 DN_{32}	16.3	X	285.08507	195.72534	127.15951	9.87942	0.1286958	0.22914323	2.6448316	20	5 12.2	19.9
472548 2015 DN_{33}	17.9	X	28.55414	237.23012	51.31556	2.74873	0.1995717	0.25845704	2.4408653	20	10 6.4	20.6
472549 2015 DL_{34}	17.4	X	339.93570	248.03108	44.71432	3.98168	0.1316477	0.23903083	2.5713830	20	6 26.1	20.0
472550 2015 DY_{36}	18.1	X	124.38175	132.24249	44.11343	3.05074	0.1179311	0.25749185	2.4469611	20	8 23.2	21.6
472551 2015 DM_{38}	16.4	X	8.35046	147.85372	119.62425	9.26226	0.1269276	0.23903118	2.5713805	20	7 14.0	18.9
472552 2015 DT_{38}	17.6	X	84.68443	103.16385	112.61879	6.56817	0.1397006	0.25319625	2.4745594	20	9 2.7	21.0
472553 2015 DD_{41}	16.3	X	144.12684	265.35023	132.06904	12.79018	0.0665139	0.19936723	2.9020187	20	3 15.1	20.6
472554 2015 DX_{44}	16.3	X	216.51045	185.95450	118.12329	6.46694	0.1149508	0.17919471	3.1159173	20	2 7.1	21.2
472555 2015 DF_{45}	17.2	X	22.87979	171.45533	49.65953	5.42562	0.0934240	0.22406056	2.6846794	20	5 28.9	20.3
472556 2015 DO_{45}	17.0	X	14.47283	192.27599	78.75585	5.11865	0.0694546	0.24584331	2.5236577	20	7 27.4	19.9
472557 2015 DQ_{45}	15.9	X	146.48828	284.58999	132.66891	11.80062	0.1372591	0.21509298	2.7587894	20	4 17.7	20.3
472558 2015 DM_{49}	16.9	X	321.88990	243.59073	52.77934	5.69417	0.1485685	0.23138075	2.6277532	20	5 25.1	19.7
472559 2015 DO_{52}	16.4	X	212.16877	222.58663	98.37663	10.80066	0.0817010	0.18876415	3.0096989	20	2 25.5	21.1
472560 2015 DE_{53}	16.3	X	243.12109	134.68041	145.58933	9.45699	0.0725336	0.18240459	3.0792542	20	2 6.6	20.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
472561 2015 DD_{60}	17.5	X	137.93129	45.49949	146.90403	6.04690	0.1555462	0.27454358	2.3445627	20	9 30.7	21.1
472562 2015 DY_{61}	17.5	X	92.83618	246.12304	316.00423	2.30412	0.1201876	0.25636509	2.4541257	20	8 20.3	20.7
472563 2015 DQ_{62}	17.2	X	74.63198	324.16979	165.46889	0.51981	0.0156114	0.21474178	2.7617966	20	4 3.1	20.7
472564 2015 DO_{68}	18.2	X	32.48469	204.20323	86.79616	3.19808	0.0627262	0.27346223	2.3507394	20	9 27.1	21.0
472565 2015 DR_{73}	18.4	X	161.38264	192.15063	340.12427	0.84151	0.1291397	0.27827972	2.3235303	20	9 26.2	21.9
472566 2015 DP_{74}	18.4	X	90.01224	238.22175	15.29698	1.50862	0.1555256	0.27615526	2.3354317	20	10 30.3	21.7
472567 2015 DF_{80}	17.2	X	7.15755	246.23967	12.53891	5.22618	0.1682202	0.23426488	2.6061411	20	7 1.3	19.6
472568 2015 DD_{81}	16.4	X	341.86099	14.58400	137.19277	12.93009	0.1005906	0.17524039	3.1626168	20	—	—
472569 2015 DB_{82}	16.8	X	65.42237	4.94382	115.31568	3.74667	0.0298492	0.20304332	2.8668848	20	3 14.3	20.6
472570 2015 DN_{84}	16.5	X	217.36840	140.96156	155.91560	10.41066	0.0244788	0.18386113	3.0629702	20	1 31.2	21.1
472571 2015 DE_{90}	17.4	X	39.36538	257.30525	355.01961	5.72530	0.0961191	0.25372320	2.4711319	20	8 14.8	20.2
472572 2015 DK_{94}	16.9	X	223.53512	346.13104	353.24073	8.30301	0.1056373	0.21036745	2.7999505	20	3 22.8	21.1
472573 2015 DD_{95}	17.7	X	173.68764	328.58971	209.59982	2.46853	0.1840706	0.28410134	2.2916794	20	10 14.2	21.3
472574 2015 DU_{96}	16.4	X	214.41681	181.06497	148.23559	10.79859	0.1689595	0.19056154	2.9907438	20	3 3.2	21.2
472575 2015 DD_{101}	16.6	X	281.63763	311.64415	7.26527	7.19476	0.1543045	0.24125279	2.5555702	20	4 22.3	20.0
472576 2015 DK_{109}	17.9	X	187.73243	24.91434	73.92898	9.03642	0.0763114	0.26415464	2.4056395	20	7 20.5	21.3
472577 2015 DU_{110}	16.2	X	271.25475	156.11144	69.37460	12.04606	0.0774339	0.17930430	3.1146476	20	1 3.7	20.8
472578 2015 DV_{113}	17.5	X	145.71219	101.43450	69.89508	6.92567	0.0946930	0.27406352	2.3472998	20	9 12.1	20.9
472579 2015 DC_{117}	15.2	X	103.76942	16.29093	341.32676	14.78395	0.0440955	0.17008015	3.2262669	20	—	—
472580 2015 DW_{117}	17.4	X	133.98101	157.11769	80.26588	7.13836	0.0851156	0.28957570	2.2627052	20	11 24.7	20.6
472581 2015 DC_{118}	15.3	X	167.28696	215.82227	124.16918	10.48406	0.0730696	0.17489249	3.1668095	20	1 31.4	20.1
472582 2015 DJ_{118}	16.5	X	119.21545	281.15233	124.58816	11.68670	0.0315289	0.18668239	3.0320322	20	2 20.6	20.9
472583 2015 DL_{120}	17.4	X	291.57429	314.59123	105.04029	7.11100	0.0775276	0.28663183	2.2781716	20	10 24.9	19.8
472584 2015 DN_{120}	17.3	X	117.35544	208.65905	56.44083	6.91088	0.0431667	0.29604451	2.2296227	20	12 12.1	20.1
472585 2015 DU_{120}	16.7	X	312.79538	176.27577	103.25497	9.62151	0.2769989	0.20372929	2.8604459	20	4 2.7	20.4
472586 2015 DH_{121}	16.7	X	318.44279	204.56795	71.91922	9.35409	0.1565635	0.21208899	2.7847784	20	4 24.3	20.1
472587 2015 DE_{122}	16.7	X	354.20276	204.04065	42.79200	12.64633	0.1502663	0.21731316	2.7399672	20	5 13.4	19.4
472588 2015 DL_{122}	15.7	X	9.78503	68.27554	82.25059	11.26268	0.0512834	0.18360370	3.0658326	20	2 11.3	19.9
472589 2015 DC_{124}	16.8	X	114.49834	108.55387	102.26921	7.55918	0.0720482	0.26532668	2.3985500	20	9 27.3	20.2
472590 2015 DO_{125}	17.5	X	55.71395	78.96349	134.72280	16.63749	0.1005070	0.23349971	2.6118315	20	7 12.3	20.8
472591 2015 DT_{130}	16.5	X	59.77969	135.06829	123.63280	16.40566	0.1125886	0.25428120	2.4675154	20	9 30.5	20.1
472592 2015 DZ_{133}	16.4	X	142.52524	40.02502	103.60739	15.38342	0.0775134	0.24391032	2.5369735	20	7 26.7	20.1
472593 2015 DC_{134}	16.8	X	122.15096	52.37635	101.21427	12.85446	0.1218002	0.23975108	2.5662305	20	7 19.4	20.7
472594 2015 DJ_{136}	16.7	X	320.63683	162.63420	131.59527	16.03037	0.1522902	0.21722121	2.7407404	20	5 25.1	20.2
472595 2015 DV_{136}	16.7	X	69.58253	53.95624	137.68108	16.83827	0.1213867	0.22733293	2.6588540	20	7 5.2	20.4
472596 2015 DE_{137}	16.4	X	14.30616	57.92114	77.60384	6.92499	0.0639632	0.18376772	3.0640080	20	1 27.7	20.4
472597 2015 DX_{137}	15.8	X	125.71104	325.99666	134.60011	18.46940	0.0525210	0.20005625	2.8953515	20	5 13.5	20.3
472598 2015 DZ_{137}	16.7	X	43.27149	52.05647	132.24758	16.49535	0.2289238	0.20309103	2.8664358	20	6 3.9	20.2
472599 2015 DB_{138}	16.0	X	312.00447	130.77145	112.93034	16.88691	0.2378250	0.17386929	3.1792215	20	2 24.1	20.4
472600 2015 DG_{138}	15.5	X	185.99997	247.84411	127.46144	20.16196	0.0176161	0.17973460	3.1096745	20	4 7.8	20.3
472601 2015 DG_{145}	17.3	X	115.23363	323.22977	241.17628	5.23705	0.1359133	0.27603657	2.3361011	20	9 18.7	20.7
472602 2015 DZ_{147}	16.5	X	299.20111	57.31874	151.15191	17.39063	0.1775820	0.18388034	3.0627569	20	1 1.5	21.3
472603 2015 DZ_{151}	17.5	X	0.41706	240.45942	102.33493	3.72161	0.1718390	0.27647219	2.3336466	20	11 6.7	19.7
472604 2015 DJ_{152}	16.2	X	268.41952	107.04560	136.45769	10.17035	0.0363230	0.17461078	3.1702148	20	1 26.8	20.7
472605 2015 DQ_{152}	17.1	X	342.60088	248.57218	99.82132	4.65613	0.0782263	0.27030533	2.3690068	20	10 2.4	19.6
472606 2015 DE_{154}	15.8	X	289.81007	279.95110	25.39144	15.33438	0.2796277	0.20298562	2.8674281	20	4 3.3	19.9
472607 2015 DR_{154}	16.6	X	4.81125	104.33527	151.14323	11.06929	0.1484792	0.22168892	2.7037927	20	6 19.6	19.6
472608 2015 DH_{156}	16.9	X	79.91369	24.98186	145.79337	8.76946	0.1157123	0.22977166	2.6400069	20	6 20.1	20.5
472609 2015 DQ_{157}	18.3	X	183.57444	51.09436	128.82559	2.73642	0.0890578	0.28789615	2.2714969	20	11 4.9	21.4
472610 2015 DA_{158}	17.0	X	83.30183	2.04957	234.95826	6.58330	0.0784959	0.26716596	2.3875289	20	9 18.2	20.2
472611 2015 DA_{162}	16.8	X	109.32822	348.94392	103.01472	10.84332	0.1742667	0.21772641	2.7364991	20	4 26.1	21.0
472612 2015 DT_{163}	17.4	X	1.60686	113.88998	108.89008	4.36377	0.1165461	0.21019448	2.8014864	20	4 27.4	20.6
472613 2015 DF_{165}	17.6	X	19.37655	163.41080	135.24336	2.20386	0.0454397	0.25995918	2.4314533	20	9 12.1	20.3
472614 2015 DP_{165}	17.9	X	158.69610	150.48900	4.68645	6.22275	0.0660075	0.26146461	2.4221114	20	9 1.5	21.2
472615 2015 DJ_{166}	17.1	X	31.94804	188.65916	107.06139	5.80049	0.1894476	0.25768373	2.4457462	20	10 21.8	20.0
472616 2015 DC_{167}	16.7	X	73.67351	49.57745	151.38879	8.94836	0.1002720	0.23944310	2.5684306	20	7 19.9	20.2
472617 2015 DL_{167}	17.6	X	59.75594	93.58654	110.48265	3.41038	0.0788789	0.23404984	2.6077372	20	7 1.5	20.7
472618 2015 DR_{168}	16.2	X	79.88996	224.45202	327.95162	11.54628	0.0929948	0.23960499	2.5672736	20	7 18.8	19.7
472619 2015 DZ_{175}	15.6	X	261.88302	355.57905	286.25935	10.85749	0.1581312	0.17097620	3.2149850	20	2 17.3	20.7
472620 2015 DC_{176}	16.9	X	170.45461	238.97375	190.58679	12.19372	0.0711499	0.23540656	2.5977080	20	5 21.5	20.8
472621 2015 DH_{178}	16.3	X	261.93458	40.59597	207.02364	14.26636	0.2143764	0.17285119	3.1916932	20	1 5.9	21.7
472622 2015 DB_{181}	17.1	X	13.00079	214.74640	88.61173	6.15321	0.0663776	0.27075594	2.3663776	20	9 16.5	19.8
472623 2015 DL_{181}	16.3	X	32.02799	16.24359	265.05482	12.21981	0.2383239	0.23941576	2.5686261	20	9 26.5	19.7
472624 2015 DC_{188}	17.1	X	5.80366	170.90707	107.26512	10.56534	0.2308594	0.23751140	2.5823379	20	8 6.6	19.2
472625 2015 DR_{194}	16.9	X	285.19276	277.85810	81.25017	15.08820	0.1180023	0.27020343	2.3696024	20	7 1.0	19.6
472626 2015 DS_{197}	17.3	X	163.93411	293.72177	236.24962	10.26532	0.1498516	0.27435005	2.3456652	20	9 20.7	21.1
472627 2015 DV_{197}	15.7	X	226.67808	58.75310	255.87587	11.29237	0.1484267	0.18542688	3.0457032	20	2 20.9	20.9
472628 2015 DA_{198}	18.2	X	167.07268	40.16199	301.41966	18.09473	0.0732101	0.37031735	1.9205252	20	1 4.1	20.2
472629 2015 DP_{199}	17.9	X	60.71274	206.14580	230.89671	19.42380	0.0790335	0.36848849	1.9268745	20	—	—
472630 2015 DB_{205}	17.2	X	103.34912	28.33831	167.46726	11.91833	0.0444527	0.24311530	2.5425013	20	8 12.6	20.7
472631 2015 DS_{206}	17.2	X	9.77773	138.38491	143.79171	7.03411	0.1803577	0.22694582	2.6618766	20	8 12.5	19.7
472632 2015 DW_{206}	16.2	X	32.73326	10.27347	163.10226	10.47513	0.0359967	0.19206201	2.9751468	20	4 9.6	20.2
472633 2015 DD_{207}	16.3	X	112.28894	10.19828	120.57802	8.79314	0.1274557	0.21944655	2.7221803	20	6 8.9	20.4
472634 2015 DG_{207}	16.7	X	29.78753	66.48669	157.80031	13.40724	0.1163530	0.21652855	2.7465822	20	6 18.2	20.2
472635 2015 DN_{207}	16.8	X	308.53351	86.57219	138.03684	10.65252	0.1632985	0.17186251	3.2039221	20	2 3.9	21.1
472636 2015 DK_{208}	16.8	X	326.92563	217.50384	92.71395	9.58481	0.0473221	0.22603886	2.6689922	20	7 4.3	20.0
472637 2015 DA_{209}	16.6	X	290.27093	230.41792	117.09340	6.79042	0.0385487	0.22669268	2.6638579	20	7 2.9	19.9
472638 2015 DR_{209}	16.7	X	52.93448	102.96792	81.78483	10.96465	0.0627949	0.20913860	2.8109077	20	5 24.2	20.3
472639 2015 DV_{210}	16.4	X	51.39344	131.07878	99.28815	9.56918	0.0351657	0.22840021	2.6505645	20	7 19.6	19.9
472640 2015 DG_{211}	16.6	X	157.01895	358.42530	144.22320	10.17924	0.0721243	0.24328028	2.5413518	20	8 9.8	20.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
472641 2015 DN_{211}	16.2	X	169.71103	265.02960	171.20829	13.26119	0.0835004	0.21332579	2.7740043	20	5 30.3	20.6
472642 2015 DZ_{211}	17.4	X	262.34837	332.12002	107.79176	7.09315	0.0849706	0.26538610	2.3981919	20	10 1.9	20.3
472643 2015 DF_{212}	15.7	X	326.12697	153.12620	81.03801	10.17885	0.0774131	0.18341518	3.0679330	20	3 26.5	19.9
472644 2015 DG_{212}	17.2	X	246.05158	12.64777	108.36119	7.00620	0.0715990	0.27849912	2.3223099	20	11 8.4	20.0
472645 2015 DL_{212}	16.5	X	327.92173	209.56685	111.40620	7.50701	0.0209735	0.23019152	2.6367958	20	7 23.1	19.7
472646 2015 DR_{212}	16.0	X	222.42391	255.16105	86.71821	10.65134	0.0977868	0.18091007	3.0961896	20	4 2.6	20.9
472647 2015 DA_{213}	16.3	X	349.43418	53.33191	163.41271	7.87982	0.1260812	0.18996277	2.9970251	20	3 29.6	19.9
472648 2015 DF_{213}	16.5	X	254.60385	267.35239	103.27595	10.50530	0.1086645	0.22068268	2.7120054	20	6 6.5	20.4
472649 2015 DN_{213}	17.1	X	40.98085	175.32052	142.36051	8.41054	0.0741419	0.26536324	2.3983297	20	11 16.5	20.3
472650 2015 DV_{213}	16.6	X	78.40642	257.11708	341.10917	5.65467	0.3008935	0.23860682	2.5744283	20	10 6.9	20.9
472651 2015 DB_{216}	8.4	X	325.50484	238.63038	6.25492	37.77231	0.3255183	0.01177329	19.1368640	20	3 22.9	20.1
472652 2015 DF_{217}	17.3	X	52.67521	191.46524	357.79409	9.27918	0.1312648	0.22045604	2.7138638	20	6 5.9	20.8
472653 2015 DD_{218}	16.1	X	335.01854	329.55609	303.93125	8.54291	0.0952165	0.21848665	2.7301475	20	5 19.8	19.6
472654 2015 DE_{218}	17.7	X	148.71594	317.65328	264.27806	4.97923	0.2226193	0.28142678	2.3061759	20	11 13.8	21.6
472655 2015 DH_{218}	18.1	X	280.00216	165.48472	280.06842	4.81696	0.1154672	0.29423709	2.2387440	20	11 4.8	20.3
472656 2015 DY_{218}	16.2	X	327.49423	315.10048	301.66152	8.08385	0.0834860	0.20510553	2.8476360	20	4 14.3	20.0
472657 2015 DK_{219}	16.2	X	284.32730	274.00811	338.17754	12.29586	0.2404441	0.17273531	3.1931204	20	2 2.2	21.1
472658 2015 DU_{219}	18.0	X	102.49503	268.90049	329.12831	6.53196	0.1852237	0.26261645	2.4150239	20	10 20.3	21.9
472659 2015 DY_{219}	16.0	X	277.49702	64.93643	195.60600	26.88103	0.2920961	0.16969293	3.2311731	20	1 24.7	21.7
472660 2015 DM_{221}	15.8	X	33.49635	294.50040	168.03578	16.25655	0.0667742	0.17350906	3.1836204	20	1 13.3	20.2
472661 2015 DU_{221}	16.6	X	164.77104	251.06460	156.90062	12.65996	0.1192949	0.21896351	2.7261822	20	4 21.9	21.0
472662 2015 DM_{222}	16.4	X	352.38793	10.91172	185.42499	5.10362	0.0905336	0.18724872	3.0259157	20	3 8.3	20.2
472663 2015 DB_{223}	17.7	X	171.37898	254.84080	273.79049	2.99812	0.1177766	0.27335270	2.3513673	20	9 30.1	21.1
472664 2015 EB_{3}	17.8	X	153.53544	128.32279	26.25417	2.65860	0.1462224	0.26764783	2.3846623	20	8 26.1	21.5
472665 2015 ED_{3}	17.5	X	65.04425	277.37811	335.24951	4.96711	0.0754244	0.26795428	2.3828438	20	9 17.4	20.6
472666 2015 EJ_{3}	15.9	X	193.99764	147.22955	165.44872	10.93382	0.0596726	0.18086688	3.0966825	20	1 24.2	20.6
472667 2015 ER_{7}	15.3	X	109.18497	308.54514	122.16623	10.78930	0.0616816	0.19311495	2.9643225	20	3 15.6	19.6
472668 2015 ER_{8}	16.5	X	22.15538	320.92012	159.36946	22.09321	0.1798140	0.18570246	3.0426894	20	1 16.1	20.1
472669 2015 EC_{9}	17.2	X	350.57867	104.53480	159.87052	12.99694	0.0883175	0.22685672	2.6625736	20	6 7.1	20.6
472670 2015 EE_{11}	18.0	X	198.48117	129.87180	38.86657	4.32154	0.0765183	0.30019193	2.2090390	20	11 10.5	20.6
472671 2015 EY_{14}	18.4	X	82.19555	207.24642	46.76727	2.65375	0.1676854	0.27290657	2.3539292	20	10 24.1	21.8
472672 2015 EX_{15}	18.2	X	231.85565	74.79357	50.16873	4.63489	0.1054709	0.29754255	2.2221327	20	10 21.4	20.6
472673 2015 EC_{20}	16.4	X	0.37575	247.39637	2.66021	14.63223	0.0986458	0.23428028	2.6060269	20	5 27.6	19.7
472674 2015 EQ_{22}	16.2	X	335.84149	356.92552	161.89972	7.26666	0.0597785	0.17597303	3.1538326	20	1 3.9	20.5
472675 2015 EF_{24}	18.2	X	130.71314	55.89080	129.50600	3.17369	0.1346095	0.26738068	2.3862505	20	9 12.3	21.7
472676 2015 EV_{24}	17.5	X	173.70019	5.06043	138.14599	7.29881	0.0530821	0.27094570	2.3652726	20	9 4.5	20.6
472677 2015 EB_{27}	17.4	X	90.62469	29.22128	190.43722	2.17851	0.1517367	0.25908552	2.4369164	20	9 14.1	20.9
472678 2015 EU_{37}	17.6	X	70.41907	307.30677	352.30420	3.27696	0.1731620	0.29375974	2.2411686	20	12 12.9	20.9
472679 2015 ED_{43}	17.2	X	10.27946	13.53716	256.04892	3.93213	0.2695169	0.23533783	2.5982138	20	8 5.7	19.2
472680 2015 EO_{46}	17.0	X	319.54601	92.00586	186.00055	3.17377	0.1643071	0.21681376	2.7441730	20	4 23.9	20.1
472681 2015 EY_{53}	16.7	X	312.42307	10.43582	281.62387	8.78882	0.3483895	0.21497364	2.7598104	20	3 26.6	20.4
472682 2015 EA_{54}	16.2	X	331.29912	317.63782	267.01977	5.93985	0.1994077	0.19751473	2.9201359	20	2 24.1	19.7
472683 2015 EN_{62}	16.0	X	297.91328	256.83220	347.33960	13.54225	0.1778582	0.18078302	3.0976402	20	2 14.6	20.4
472684 2015 EP_{62}	16.9	X	359.72237	290.20872	328.74978	8.48021	0.2093549	0.21835508	2.7312441	20	6 14.0	19.4
472685 2015 ER_{63}	17.2	X	56.36116	57.81634	121.92745	5.20450	0.1718709	0.21728958	2.7401655	20	6 7.2	20.5
472686 2015 EV_{63}	17.1	X	71.86848	252.25642	16.42655	9.83420	0.2428682	0.25699202	2.4501328	20	11 3.9	21.0
472687 2015 EZ_{63}	15.8	X	305.42373	76.65323	161.70340	26.33366	0.2275286	0.17860990	3.1227151	20	2 5.5	20.4
472688 2015 EG_{64}	17.2	X	76.71687	159.35937	46.79834	7.83006	0.1329379	0.23800002	2.5788024	20	8 9.4	20.8
472689 2015 EL_{64}	17.6	X	169.57338	134.73121	113.03434	1.94844	0.0773655	0.30666452	2.1778453	20	—	—
472690 2015 ES_{64}	16.4	X	9.20945	142.23181	72.62044	9.21596	0.1384601	0.20520968	2.8466724	20	5 1.2	19.5
472691 2015 EZ_{64}	16.8	X	87.12104	40.91616	106.82018	8.96083	0.1435128	0.21801976	2.7340438	20	6 3.3	20.6
472692 2015 EB_{65}	16.7	X	65.87871	337.25224	193.18792	13.73091	0.1260872	0.21454161	2.7635141	20	6 1.9	20.5
472693 2015 FY_{2}	18.0	X	174.66717	61.22354	97.00368	7.69315	0.1956202	0.28052221	2.3111309	20	9 22.9	21.8
472694 2015 FM_{5}	18.0	X	279.55184	76.76014	117.16645	24.36997	0.0729086	0.35626779	1.9706901	20	—	—
472695 2015 FD_{8}	16.9	X	322.50104	74.63747	144.79462	10.03525	0.0494610	0.21066659	2.7972993	20	2 27.4	20.6
472696 2015 FZ_{19}	17.1	X	120.66415	83.51701	81.96458	12.40541	0.1200056	0.24299466	2.5433428	20	8 4.9	21.0
472697 2015 FQ_{20}	16.5	X	80.69457	51.09061	91.05672	14.00061	0.1329434	0.21118216	2.7927447	20	5 19.0	20.4
472698 2015 FV_{22}	15.6	X	256.28400	194.21269	94.95370	16.51990	0.2353409	0.17311163	3.1884912	20	2 22.1	21.0
472699 2015 FC_{23}	15.8	X	244.32629	184.78014	139.06746	17.70035	0.2826685	0.18199218	3.0839044	20	3 18.2	21.2
472700 2015 FX_{24}	16.3	X	50.12774	121.58547	96.95044	14.51863	0.1280351	0.23806100	2.5783619	20	7 15.9	19.4
472701 2015 FS_{37}	17.6	X	59.92104	110.42409	98.43761	13.52122	0.1120189	0.22791467	2.6543277	20	7 13.7	20.9
472702 2015 FT_{38}	16.7	X	267.08286	275.77761	32.71094	4.53408	0.1568573	0.18755737	3.0225950	20	3 28.8	21.2
472703 2015 FY_{38}	15.8	X	239.40386	286.05169	29.37715	11.00828	0.1417364	0.17743568	3.1364768	20	3 14.7	20.8
472704 2015 FX_{39}	17.0	X	310.49283	273.15046	63.19143	2.71447	0.1341182	0.22661893	2.6644358	20	7 5.3	20.0
472705 2015 FX_{40}	16.5	X	25.35434	39.02527	199.53467	1.72735	0.0317856	0.22021158	2.7158719	20	6 21.8	19.8
472706 2015 FA_{42}	16.7	X	316.19953	122.30052	176.14856	5.14910	0.0889567	0.20969358	2.8059459	20	5 28.2	20.3
472707 2015 FH_{42}	17.0	X	182.30761	5.42498	83.69616	3.23960	0.0407324	0.22490709	2.6779386	20	6 28.8	20.8
472708 2015 FN_{42}	16.0	X	329.91225	196.79923	30.98064	11.47109	0.0661698	0.18300784	3.0724837	20	3 23.2	20.1
472709 2015 FT_{42}	16.0	X	260.03199	114.24110	206.40884	15.58760	0.2387031	0.18029128	3.1032700	20	3 25.3	21.0
472710 2015 FW_{42}	17.2	X	253.23248	179.37011	203.55450	9.30227	0.0276626	0.22344046	2.6896442	20	6 30.8	21.0
472711 2015 FM_{43}	16.5	X	30.77493	94.30276	69.14069	5.04546	0.0304738	0.18329932	3.0692256	20	3 25.8	20.6
472712 2015 FA_{45}	16.9	X	337.48915	24.95432	184.67457	7.58801	0.0618029	0.17964861	3.1106667	20	3 6.8	21.0
472713 2015 FD_{45}	16.5	X	327.71174	44.47409	191.94466	10.42501	0.0979013	0.18499761	3.0504130	20	3 22.5	20.3
472714 2015 FF_{45}	16.4	X	332.54083	165.38705	28.43814	3.80809	0.0772882	0.16864580	3.2445343	20	2 11.9	20.7
472715 2015 FJ_{45}	18.0	X	287.99208	9.15890	76.60064	4.81892	0.1314797	0.28457812	2.2891191	20	11 18.1	19.8
472716 2015 FD_{48}	17.3	X	51.43638	26.16903	165.12559	14.30268	0.1974041	0.22826097	2.6516424	20	6 20.3	20.7
472717 2015 FY_{48}	17.1	X	43.87744	280.16065	343.17947	15.29902	0.1502266	0.25921395	2.4361114	20	9 12.9	20.0
472718 2015 FB_{56}	16.4	X	332.71768	42.67786	230.86316	11.87554	0.1100549	0.23122096	2.6289636	20	5 16.5	19.3
472719 2015 FK_{67}	16.5	X	354.26407	13.00745	266.15358	11.51764	0.1070648	0.23128354	2.6284894	20	7 2.6	19.3
472720 2015 FE_{68}	16.4	X	4.78179	181.44451	63.59853	19.42466	0.1189262	0.21414366	2.7669367	20	5 31.9	19.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
472721 2015 FW_{68}	16.3	X	108.93973	24.26749	111.87307	14.11119	0.0601471	0.21821881	2.7323810	20	6 4.8	20.2
472722 2015 FN_{71}	15.6	X	270.95754	216.83013	13.78554	13.25838	0.1506544	0.15342165	3.4557709	20	1 7.3	21.1
472723 2015 FB_{72}	16.7	X	191.09851	254.79152	194.79002	7.77492	0.1220513	0.23776546	2.5804981	20	7 6.2	20.8
472724 2015 FJ_{72}	17.6	X	51.83135	228.78538	28.31488	5.93922	0.1253024	0.24154280	2.5535242	20	9 13.0	20.8
472725 2015 FP_{72}	17.2	X	291.42246	225.19717	74.35283	3.17131	0.0385723	0.20314125	2.8659633	20	5 1.5	20.9
472726 2015 FA_{73}	16.3	X	213.07887	273.75623	58.75763	5.77507	0.0942676	0.17549939	3.1595045	20	3 11.1	21.3
472727 2015 FR_{73}	16.6	X	17.37989	32.83821	216.21500	4.41042	0.1103569	0.21930603	2.7233430	20	6 30.2	19.6
472728 2015 FW_{74}	17.0	X	30.87945	61.50803	150.82266	3.05141	0.1234697	0.20952745	2.8074289	20	6 3.1	20.2
472729 2015 FY_{74}	16.5	X	220.27902	40.77643	38.35834	13.44599	0.1002402	0.24482689	2.5306377	20	8 1.8	20.4
472730 2015 FD_{75}	16.4	X	268.51254	296.35985	50.23713	7.18470	0.0292095	0.21373367	2.7704740	20	6 2.0	20.1
472731 2015 FL_{75}	16.8	X	352.88150	18.98896	192.56611	4.52248	0.1146534	0.18780744	3.0199113	20	3 27.7	20.4
472732 2015 FL_{76}	16.4	X	21.89567	14.09844	154.69826	5.59835	0.1098476	0.18463858	3.0543660	20	3 21.2	20.1
472733 2015 FP_{77}	16.0	X	212.65819	184.21918	189.61010	9.02695	0.0878316	0.19455269	2.9497003	20	4 27.0	20.5
472734 2015 FW_{77}	16.6	X	82.79265	158.09302	51.96678	3.17878	0.0391320	0.23695716	2.5863631	20	8 6.5	20.0
472735 2015 FF_{78}	16.1	X	291.72769	58.77587	204.78354	13.62559	0.1716040	0.17591889	3.1544796	20	2 25.2	20.8
472736 2015 FL_{78}	17.8	X	221.24776	349.52329	116.46130	2.10278	0.1455654	0.26233183	2.4167704	20	8 31.2	21.1
472737 2015 FM_{78}	17.5	X	222.52143	55.62993	64.81597	3.43881	0.1362247	0.27003278	2.3706006	20	9 24.5	20.7
472738 2015 FW_{78}	17.0	X	111.65239	152.35623	4.00354	2.74237	0.0138606	0.22487990	2.6781544	20	6 27.1	20.6
472739 2015 FS_{84}	17.0	X	338.80975	319.73617	303.26427	9.05014	0.2338733	0.21559234	2.7545278	20	4 23.0	19.8
472740 2015 FQ_{94}	16.8	X	286.98815	286.87758	319.38515	12.81890	0.2260037	0.17258026	3.1950327	20	1 29.3	21.7
472741 2015 FR_{94}	16.4	X	249.03582	350.56027	298.24219	9.61390	0.1880580	0.17489105	3.1668269	20	2 12.4	21.5
472742 2015 FA_{96}	17.0	X	154.61730	216.08287	307.30781	6.55917	0.0828930	0.26196481	2.4190272	20	9 3.7	20.5
472743 2015 FH_{96}	16.8	X	191.08692	217.83121	257.65549	6.30784	0.0697834	0.25779347	2.4450521	20	8 12.3	20.3
472744 2015 FB_{97}	17.0	X	326.90113	11.37135	277.29484	5.27582	0.0365353	0.22570486	2.6716247	20	6 4.6	20.3
472745 2015 FY_{97}	16.2	X	190.57558	107.37436	233.11005	8.82991	0.0861340	0.18057455	3.1000237	20	2 20.4	21.2
472746 2015 FV_{99}	17.6	X	218.45707	161.96361	330.93707	6.61177	0.0705518	0.28082112	2.3094906	20	10 12.3	20.6
472747 2015 FG_{101}	16.3	X	291.16471	6.68673	335.19783	11.52088	0.0793510	0.23252719	2.6191089	20	6 21.1	19.8
472748 2015 FM_{101}	17.4	X	95.04197	310.90308	268.10277	5.38169	0.0640750	0.25503376	2.4626589	20	9 5.1	20.8
472749 2015 FY_{101}	16.5	X	319.58317	250.80044	314.65733	8.65505	0.1711803	0.17556395	3.1587299	20	1 25.1	20.6
472750 2015 FZ_{101}	16.8	X	50.67707	334.63470	239.89025	8.34962	0.1265359	0.22823125	2.6518725	20	7 8.3	20.2
472751 2015 FH_{102}	16.9	X	32.25366	272.61160	308.44654	7.81248	0.0850484	0.22219387	2.6996948	20	6 13.1	20.2
472752 2015 FK_{103}	17.3	X	146.70850	308.03546	242.17357	7.44780	0.0680991	0.26841354	2.3801250	20	9 30.6	20.7
472753 2015 FP_{111}	16.8	X	85.69874	204.54733	355.36407	10.22263	0.0532645	0.23966284	2.5668604	20	8 1.0	20.3
472754 2015 FN_{112}	16.7	X	39.62660	213.71974	353.59792	6.38596	0.1271492	0.21768591	2.7368385	20	6 10.3	19.9
472755 2015 FO_{113}	17.5	X	202.88332	226.53375	292.89119	4.58254	0.0809379	0.28522382	2.2856629	20	10 29.0	20.4
472756 2015 FQ_{113}	17.7	X	153.81280	216.78702	305.86686	6.49160	0.0505041	0.25951362	2.4342356	20	9 1.5	21.0
472757 2015 FZ_{114}	17.2	X	78.04847	68.57934	225.18930	3.89150	0.1216554	0.27920213	2.3184100	20	12 6.3	20.5
472758 2015 FH_{115}	16.7	X	151.45293	68.46264	44.84778	9.14342	0.0317122	0.22565584	2.6720116	20	6 22.0	20.5
472759 2015 FX_{116}	18.0	X	260.04139	120.90916	342.36268	3.56872	0.0842945	0.28996404	2.2606845	20	10 31.6	20.4
472760 2015 FZ_{117}	10.6	X	26.88583	357.95858	154.90466	6.81678	0.4262338	0.00898514	22.9149747	20	4 29.0	22.6
472761 2015 FZ_{118}	16.7	X	59.36933	165.84783	71.12251	7.29530	0.1136168	0.25443952	2.4664918	20	8 27.9	19.9
472762 2015 FR_{119}	17.1	X	48.52819	41.36662	162.87706	14.38530	0.1840514	0.22938968	2.6429370	20	6 30.9	20.5
472763 2015 FV_{120}	16.4	X	21.32143	24.55762	186.40293	13.70963	0.1484221	0.21500987	2.7595003	20	5 18.6	19.5
472764 2015 FY_{120}	17.7	X	128.31986	117.18811	73.97878	5.62341	0.1257384	0.26473193	2.4021410	20	9 18.8	21.3
472765 2015 FP_{121}	15.5	X	211.08597	142.68749	172.96389	26.92265	0.1642006	0.17461010	3.1702230	20	2 12.3	20.9
472766 2015 FZ_{121}	17.5	X	136.73384	26.34417	120.11437	4.24155	0.0796103	0.24576061	2.5242238	20	7 23.2	21.0
472767 2015 FE_{122}	17.6	X	137.29107	44.59969	149.67201	3.02087	0.1149568	0.26721989	2.3872077	20	9 29.9	21.0
472768 2015 FX_{122}	17.0	X	33.19878	224.09278	341.42145	7.24314	0.2475201	0.21478331	2.7614405	20	6 13.9	19.8
472769 2015 FU_{123}	17.9	X	140.49099	199.58219	68.11246	4.00352	0.1558340	0.29783741	2.2206659	20	—	—
472770 2015 FB_{124}	17.2	X	38.56618	122.23890	135.15874	3.39351	0.1441081	0.23972414	2.5664228	20	8 25.5	20.2
472771 2015 FX_{133}	16.7	X	319.77861	140.02577	172.17938	6.36740	0.0653891	0.22385841	2.6862954	20	6 24.0	20.1
472772 2015 FY_{134}	17.0	X	45.60303	11.94471	167.12254	8.17037	0.1455026	0.21449158	2.7639439	20	5 16.9	20.3
472773 2015 FU_{136}	15.5	X	306.08797	220.35941	33.40241	15.38435	0.1023811	0.18649833	3.0340269	20	3 20.9	19.8
472774 2015 FS_{137}	17.5	X	87.07810	141.06667	126.15091	3.35188	0.2019811	0.26592620	2.3949437	20	11 16.9	21.3
472775 2015 FT_{138}	17.8	X	219.71490	102.01755	77.09179	3.24596	0.0368986	0.30123243	2.2039491	20	12 30.6	20.2
472776 2015 FG_{141}	17.1	X	309.47546	218.86040	135.15861	2.50386	0.1246180	0.24626509	2.5207754	20	8 1.6	19.6
472777 2015 FS_{142}	16.9	X	289.38912	105.85310	180.95385	1.28212	0.2319636	0.18860015	3.0114433	20	3 15.9	21.2
472778 2015 FS_{147}	15.9	X	284.99887	79.54107	172.73785	13.82119	0.2206757	0.17167474	3.2062579	20	1 31.8	21.0
472779 2015 FO_{148}	16.7	X	273.92654	164.56791	116.47564	4.82242	0.1740323	0.18092189	3.0960548	20	3 2.1	21.3
472780 2015 FQ_{148}	18.0	X	58.66416	319.10697	38.94351	7.24632	0.1530384	0.30608105	2.1806121	20	—	—
472781 2015 FZ_{148}	17.5	X	84.95963	98.07077	60.22614	5.93021	0.0987392	0.22021078	2.7158785	20	6 6.2	21.1
472782 2015 FV_{149}	17.7	X	300.65803	284.87565	139.44012	6.01869	0.1361063	0.28785266	2.2717256	20	11 12.8	19.6
472783 2015 FC_{150}	16.7	X	301.73845	194.61004	120.43149	4.10122	0.0893987	0.21816318	2.7328455	20	5 28.8	20.2
472784 2015 FD_{150}	16.7	X	33.57142	36.88458	166.78668	9.15176	0.0787309	0.21219827	2.7838221	20	5 23.4	20.3
472785 2015 FE_{150}	18.3	X	104.45251	150.54730	104.13145	3.91827	0.0413154	0.27576131	2.3376554	20	11 9.5	21.3
472786 2015 FF_{150}	17.6	X	149.20690	185.45573	46.40175	6.43616	0.1364439	0.28513483	2.2861385	20	11 29.8	20.9
472787 2015 FH_{150}	17.1	X	62.64494	199.08153	71.89947	4.49491	0.1222077	0.25725849	2.4484406	20	10 17.6	20.4
472788 2015 FO_{150}	17.2	X	58.64741	19.53561	179.46275	13.80460	0.0351763	0.22339058	2.6900446	20	6 16.3	21.0
472789 2015 FL_{151}	17.6	X	115.33552	181.59842	38.30016	6.42524	0.1103342	0.26237629	2.4164973	20	10 9.8	21.0
472790 2015 FS_{151}	17.8	X	223.91111	140.70184	33.77285	7.49830	0.0947014	0.30029548	2.2085311	20	12 20.0	20.3
472791 2015 FW_{151}	17.7	X	358.88787	108.79674	149.32429	1.40004	0.2021941	0.21371173	2.7706637	20	6 10.8	20.0
472792 2015 FC_{152}	16.3	X	348.93151	177.36309	4.84939	0.02958	0.1074096	0.17923883	3.1154060	20	2 14.7	20.1
472793 2015 FE_{152}	17.3	X	155.91216	315.36175	160.61797	1.88682	0.0239546	0.23265864	2.6181223	20	7 1.6	20.7
472794 2015 FQ_{152}	16.9	X	214.84499	249.67229	190.28851	10.59205	0.0146231	0.24376187	2.5380034	20	7 28.8	20.5
472795 2015 FS_{152}	15.9	X	339.82571	246.33898	20.85925	14.68846	0.0693067	0.21371078	2.7706719	20	5 18.7	19.6
472796 2015 FT_{152}	17.6	X	140.09431	54.51591	95.81507	2.05720	0.0822532	0.24411037	2.5355873	20	8 1.7	21.1
472797 2015 FT_{153}	17.2	X	7.49789	81.40376	173.16637	3.22289	0.0610719	0.22184996	2.7024841	20	6 18.9	20.6
472798 2015 FL_{156}	17.6	X	180.66574	150.54416	54.91238	6.37572	0.0446820	0.29166247	2.2518995	20	12 9.7	20.3
472799 2015 FX_{156}	17.3	X	263.09142	214.00887	148.30365	6.58610	0.0522330	0.22613157	2.6682627	20	6 13.9	20.9
472800 2015 FL_{157}	16.8	X	45.40162	46.70929	155.48839	7.83105	0.1051997	0.21692051	2.7432726	20	6 11.2	20.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
472801 2015 FM_{158}	16.2	X	292.87798	72.37564	175.69868	15.73635	0.1895159	0.17324640	3.1868374	20	2 7.5	21.0
472802 2015 FV_{159}	16.1	X	215.88096	227.08008	90.48628	5.51837	0.1200086	0.16996880	3.2276759	20	2 24.3	21.2
472803 2015 FQ_{160}	17.0	X	231.27178	252.82735	171.51510	7.50224	0.0165320	0.24186508	2.5512554	20	7 30.4	20.4
472804 2015 FR_{160}	15.8	X	269.54831	250.17837	41.16377	10.61770	0.1173256	0.18397156	3.0617443	20	3 19.2	20.4
472805 2015 FT_{160}	17.0	X	358.56125	151.70823	151.61840	5.57305	0.0335031	0.24266890	2.5456184	20	8 13.4	20.0
472806 2015 FW_{160}	16.9	X	258.56584	207.53620	147.80626	6.59792	0.0367194	0.21811620	2.7332379	20	6 1.4	20.7
472807 2015 FC_{161}	16.6	X	120.32399	31.09982	85.97933	5.07711	0.0506253	0.21345935	2.7728471	20	5 21.8	20.4
472808 2015 FE_{161}	16.2	X	325.57091	165.43118	41.00046	11.67092	0.1646813	0.17503416	3.1651006	20	2 8.8	20.5
472809 2015 FP_{161}	17.3	X	350.42681	178.98749	111.39797	5.13007	0.0654253	0.22964259	2.6409961	20	7 12.9	20.3
472810 2015 FT_{161}	16.7	X	352.21321	200.11164	87.31306	5.94993	0.1393512	0.22475012	2.6791853	20	7 12.0	19.3
472811 2015 FG_{162}	17.0	X	277.95305	210.63450	134.08556	6.43698	0.0370748	0.22222863	2.6994132	20	6 12.6	20.6
472812 2015 FK_{162}	16.8	X	51.54466	79.29007	124.32884	5.73288	0.0924606	0.21959471	2.7209557	20	6 20.3	20.1
472813 2015 FO_{162}	18.2	X	217.89405	10.23542	98.57586	5.63706	0.1072914	0.26467970	2.4024570	20	9 6.9	21.6
472814 2015 FS_{162}	16.6	X	230.11207	269.84262	100.39277	6.49346	0.0694327	0.21071813	2.7968431	20	5 13.2	20.7
472815 2015 FV_{162}	17.8	X	294.92887	351.63497	92.28556	6.50845	0.1015392	0.29179773	2.2512036	20	12 3.2	19.8
472816 2015 FD_{163}	16.9	X	14.48032	177.23057	64.47102	6.77807	0.0439944	0.21855824	2.7295513	20	6 10.5	20.2
472817 2015 FR_{166}	16.5	X	257.08723	270.89496	30.09344	9.98475	0.2185382	0.17684752	3.1434272	20	3 7.8	21.6
472818 2015 FW_{166}	16.2	X	203.11465	3.02409	26.75357	13.02967	0.0505457	0.20925772	2.8098408	20	5 4.1	20.3
472819 2015 FB_{169}	17.3	X	316.58483	126.54565	155.84187	3.91955	0.0606556	0.21194282	2.7860586	20	5 10.8	21.0
472820 2015 FM_{171}	17.2	X	264.91772	228.39545	113.12190	5.25163	0.0768329	0.21366718	2.7710488	20	5 16.7	21.1
472821 2015 FE_{173}	17.0	X	277.69740	300.42392	154.72758	5.96506	0.0669708	0.28883123	2.2665917	20	11 22.6	19.4
472822 2015 FP_{173}	17.7	X	196.38399	332.68428	147.84330	7.47131	0.0648433	0.25619573	2.4552071	20	8 29.0	20.9
472823 2015 FS_{173}	16.5	X	300.73490	104.09734	164.57377	14.32225	0.0426220	0.19192779	2.9765338	20	4 5.9	20.6
472824 2015 FT_{174}	17.4	X	357.67829	152.49107	137.89709	10.25576	0.0971302	0.22958210	2.6414600	20	7 25.5	20.3
472825 2015 FH_{175}	16.3	X	246.43672	207.47452	121.91509	10.65048	0.0692637	0.19211782	2.9745706	20	4 14.2	20.8
472826 2015 FH_{176}	16.2	X	295.18919	117.86628	162.06294	13.44929	0.1197393	0.19058149	2.9905351	20	4 1.7	20.3
472827 2015 FK_{176}	16.5	X	129.38380	262.77334	240.22229	10.80779	0.2124058	0.22617718	2.6679039	20	7 16.0	21.1
472828 2015 FS_{177}	16.8	X	316.98145	148.45290	146.88579	6.89568	0.0560081	0.22054342	2.7131469	20	5 29.8	20.4
472829 2015 FO_{182}	17.7	X	179.70781	84.32543	68.89078	4.92046	0.0756786	0.27139404	2.3626670	20	9 25.6	21.0
472830 2015 FL_{183}	18.4	X	198.65911	49.41593	142.52820	4.14622	0.1128161	0.29825893	2.2185731	20	12 7.9	21.1
472831 2015 FR_{184}	16.6	X	304.84557	268.40959	52.37732	6.00247	0.0562676	0.23143491	2.6273432	20	6 14.2	19.9
472832 2015 FU_{201}	17.9	X	149.98166	209.46796	333.78815	1.67486	0.1421931	0.27115767	2.3640398	20	9 27.7	21.6
472833 2015 FE_{214}	16.2	X	315.86417	149.52820	89.50815	10.22123	0.0674731	0.18540628	3.0459289	20	3 19.4	20.5
472834 2015 FX_{220}	17.0	X	31.25158	162.16156	87.59677	3.53702	0.1320192	0.23630241	2.5911384	20	7 31.2	19.8
472835 2015 FE_{224}	17.0	X	308.94320	258.01404	33.52631	6.95584	0.0991151	0.21561364	2.7543464	20	5 4.4	20.4
472836 2015 FB_{226}	18.3	X	318.91665	267.64602	153.87810	6.13193	0.0644090	0.29769144	2.2213917	20	12 13.7	20.6
472837 2015 FF_{231}	16.8	X	323.22125	213.13252	60.83564	3.98510	0.1540414	0.20897599	2.8123656	20	4 26.6	20.1
472838 2015 FT_{237}	17.4	X	150.47478	99.96151	125.76058	5.61469	0.0099839	0.29228382	2.2487070	20	12 2.8	20.1
472839 2015 FZ_{238}	16.4	X	345.37194	246.04149	38.59201	8.98039	0.0474605	0.23362830	2.6108730	20	6 26.9	19.7
472840 2015 FE_{239}	16.5	X	357.39114	222.30673	75.80409	6.06734	0.2080261	0.23763359	2.5814527	20	8 17.5	18.7
472841 2015 FN_{264}	17.6	X	61.71241	174.25582	118.63486	7.23884	0.1326369	0.27940834	2.3172691	20	11 20.2	20.8
472842 2015 FR_{271}	17.2	X	110.62489	100.59570	98.21875	5.93333	0.0532031	0.26029470	2.4293635	20	9 2.4	20.5
472843 2015 FX_{272}	16.2	X	322.82414	177.70189	134.55016	9.53742	0.1961725	0.23440903	2.6050726	20	6 14.7	18.9
472844 2015 FM_{275}	16.9	X	34.02082	206.15620	43.59363	10.27457	0.0760518	0.24284746	2.5443704	20	7 31.3	20.1
472845 2015 FE_{278}	16.3	X	317.31469	260.58813	17.56493	13.49074	0.1802564	0.20948220	2.8078332	20	4 16.2	19.7
472846 2015 FJ_{284}	16.4	X	291.60497	112.62836	146.77263	10.48472	0.1879045	0.17690498	3.1427464	20	2 21.9	20.8
472847 2015 FG_{285}	17.8	X	157.66006	269.97025	282.79586	2.63245	0.1029977	0.28625484	2.2801714	20	10 20.0	21.0
472848 2015 FY_{285}	15.7	X	249.37622	179.12031	146.07733	16.53030	0.2574077	0.17600323	3.1534718	20	3 25.6	21.1
472849 2015 FR_{286}	16.2	X	251.64602	291.15960	102.40821	15.33460	0.1145106	0.22666062	2.6641091	20	7 1.7	19.7
472850 2015 FD_{287}	17.3	X	97.04388	54.03392	115.59580	13.81268	0.1944344	0.22529661	2.6748511	20	7 19.7	21.4
472851 2015 FE_{287}	16.7	X	60.04681	135.61318	130.85646	18.25613	0.0966800	0.24449518	2.5329261	20	10 7.6	20.4
472852 2015 FB_{288}	17.0	X	0.36845	189.21702	58.02748	9.06576	0.2184069	0.21765021	2.7371377	20	5 27.3	19.3
472853 2015 FH_{290}	16.7	X	11.89956	47.07508	237.77748	9.60451	0.1301947	0.23662620	2.5887741	20	8 11.6	19.7
472854 2015 FV_{292}	16.2	X	4.98175	271.38303	15.01840	12.25194	0.1690358	0.23037498	2.6353958	20	8 14.8	19.0
472855 2015 FC_{293}	16.4	X	256.47562	330.26842	334.77383	2.78926	0.1944783	0.18134022	3.0912914	20	3 9.3	21.4
472856 2015 FH_{293}	15.8	X	292.64245	222.28448	47.45049	4.07303	0.0479354	0.18801087	3.0177325	20	3 26.3	19.9
472857 2015 FK_{293}	17.7	X	127.40684	273.24872	30.80237	8.52426	0.1380279	0.30431991	2.1890170	20	—	—
472858 2015 FE_{294}	17.6	X	121.83038	339.77270	165.19267	14.16033	0.1912210	0.23068026	2.6330701	20	7 11.7	22.0
472859 2015 FQ_{294}	17.0	X	82.97084	60.55584	141.37432	8.66637	0.0689139	0.23050704	2.6343891	20	7 28.7	20.6
472860 2015 FB_{295}	16.1	X	159.90805	285.63328	107.13559	10.90232	0.0454820	0.17923686	3.1154288	20	3 28.8	20.8
472861 2015 FE_{295}	15.9	X	62.42603	62.37552	73.09642	10.68225	0.0441237	0.18593934	3.0401046	20	4 5.7	20.1
472862 2015 FY_{295}	16.3	X	324.04065	72.68568	179.20890	11.41022	0.0503236	0.18945645	3.0023625	20	4 13.9	20.3
472863 2015 FD_{296}	17.0	X	310.94168	272.59114	122.07450	8.32098	0.0737715	0.26080404	2.4261995	20	10 15.8	19.8
472864 2015 FE_{296}	15.5	X	50.06964	43.67577	90.27720	11.45166	0.0427257	0.17684778	3.1434241	20	3 19.6	19.9
472865 2015 FJ_{296}	16.1	X	306.01735	223.11194	114.44133	10.34581	0.1540558	0.21820534	2.7324935	20	6 25.9	19.3
472866 2015 FZ_{296}	15.8	X	296.73458	125.82413	143.87727	11.26072	0.0229766	0.18473310	3.0533241	20	4 6.5	20.1
472867 2015 FB_{297}	16.9	X	302.86470	118.55339	139.99460	10.74738	0.1849606	0.17647232	3.1478811	20	3 7.2	21.2
472868 2015 FY_{298}	15.5	X	196.34506	117.22854	162.79015	11.12649	0.2037864	0.12482030	3.9653291	20	—	—
472869 2015 FB_{299}	16.4	X	247.56108	328.69199	89.45693	10.09863	0.1494976	0.23834578	2.5763078	20	7 26.8	20.1
472870 2015 FP_{301}	16.9	X	235.30338	290.95703	139.21125	12.31758	0.1539590	0.24416792	2.5351888	20	7 26.4	20.6
472871 2015 FW_{301}	15.9	X	347.66531	115.40420	86.07975	11.98010	0.0194459	0.17511735	3.1640980	20	3 21.6	20.5
472872 2015 FD_{302}	17.1	X	339.59009	89.28476	116.17907	11.91904	0.2000981	0.17497377	3.1658287	20	2 22.0	20.9
472873 2015 FJ_{302}	17.2	X	82.76906	81.57257	128.95829	11.47325	0.1575383	0.23164233	2.6257745	20	8 23.7	20.9
472874 2015 FO_{302}	16.4	X	299.35621	145.36911	140.93470	10.87088	0.0729445	0.18768135	3.0212637	20	4 24.1	20.7
472875 2015 FT_{302}	16.1	X	258.43327	161.94663	149.43999	11.30969	0.0400655	0.17940932	3.1134320	20	4 8.7	20.7
472876 2015 FY_{304}	15.5	X	264.49874	194.52867	115.33201	16.15489	0.0989238	0.17449744	3.1715874	20	4 10.9	20.4
472877 2015 FO_{307}	15.6	X	241.62384	196.15297	109.73638	9.31158	0.1019429	0.17739032	3.1370114	20	3 8.1	20.5
472878 2015 FW_{309}	17.0	X	10.45642	226.27105	51.73124	5.61354	0.0851417	0.23642055	2.5902752	20	8 1.3	20.0
472879 2015 FG_{310}	18.0	X	176.07731	90.33148	58.80419	5.15454	0.1416329	0.26659331	2.3909467	20	9 12.1	21.6
472880 2015 FZ_{313}	17.7	X	75.54369	209.40227	99.89380	7.72091	0.1295210	0.28550093	2.2841837	20	12 25.4	21.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
472881 2015 FK_{314}	17.4	X	343.57859	295.08412	104.69356	7.34975	0.1519551	0.29632562	2.2282124	20	—	—
472882 2015 FH_{315}	17.1	X	326.67438	164.62174	161.17230	12.11465	0.0626430	0.23949890	2.5680316	20	7 24.5	20.3
472883 2015 FR_{315}	16.6	X	276.90594	123.16886	150.53260	9.80165	0.1010262	0.18236569	3.0796921	20	3 4.7	20.9
472884 2015 FN_{317}	17.1	X	235.10946	244.89482	131.01247	7.21363	0.0059335	0.22009015	2.7168707	20	6 2.4	20.8
472885 2015 FA_{318}	17.5	X	22.50944	187.94682	131.50843	6.35911	0.0827508	0.26351149	2.4095522	20	10 24.9	20.4
472886 2015 FT_{318}	18.0	X	339.60109	296.81405	101.89522	6.82764	0.0906541	0.28985244	2.2612648	20	12 14.5	20.3
472887 2015 FS_{321}	16.2	X	274.82775	127.23072	145.04003	14.43120	0.2524426	0.17219653	3.1997775	20	2 12.6	21.1
472888 2015 FH_{323}	16.4	X	295.49246	267.79439	71.83499	12.18181	0.0806314	0.22977800	2.6399584	20	6 22.9	19.7
472889 2015 FQ_{323}	17.4	X	60.17116	96.87329	115.49198	8.49031	0.1384975	0.22890368	2.6466765	20	7 23.3	20.6
472890 2015 FT_{325}	17.3	X	354.67111	139.00473	122.96288	8.76543	0.1836335	0.21288124	2.7778649	20	6 8.2	20.1
472891 2015 FB_{326}	16.9	X	357.34828	229.83978	64.93882	10.05866	0.2102054	0.22808287	2.6530225	20	8 11.9	19.4
472892 2015 FO_{326}	16.6	X	290.31139	228.14598	95.54692	6.31825	0.0395255	0.21877788	2.7277241	20	5 31.7	20.1
472893 2015 FT_{326}	16.4	X	245.40419	205.57776	123.24946	7.44330	0.1462574	0.19195842	2.9762170	20	4 3.3	21.1
472894 2015 FC_{327}	17.3	X	76.47813	206.63129	104.60712	6.15332	0.1143636	0.28473939	2.2882546	20	12 27.4	20.3
472895 2015 FU_{327}	16.0	X	284.01888	222.44152	77.91460	8.80073	0.1452454	0.20007773	2.8951443	20	4 10.9	20.2
472896 2015 FA_{329}	17.0	X	269.73444	264.89272	142.39339	11.31243	0.0048462	0.25636856	2.4541035	20	9 4.9	20.1
472897 2015 FM_{331}	17.5	X	105.55851	193.92025	33.01675	2.79985	0.0819046	0.26308945	2.4121285	20	10 5.2	20.8
472898 2015 FD_{332}	16.3	X	125.28398	161.81782	21.64065	13.36819	0.1083082	0.24452467	2.5327224	20	9 5.2	20.2
472899 2015 FF_{334}	16.6	X	355.43506	61.09909	172.26543	9.94212	0.0651478	0.19250947	2.9705348	20	5 4.6	20.5
472900 2015 FD_{336}	16.6	X	275.32663	211.32336	185.21855	12.27470	0.1641689	0.22976276	2.6400751	20	7 27.1	20.3
472901 2015 FA_{338}	16.1	X	47.45516	316.00187	207.85069	13.46570	0.0756800	0.18202895	3.0834890	20	4 19.8	20.2
472902 2015 FS_{340}	15.9	X	317.20706	354.40336	257.91244	10.93384	0.0912987	0.18816790	3.0160533	20	3 23.8	20.1
472903 2015 FU_{340}	16.3	X	4.79561	302.22443	257.34307	9.73858	0.0926487	0.18603389	3.0390745	20	3 27.9	20.3
472904 2015 FK_{341}	17.2	X	120.54208	115.09491	103.89123	8.02917	0.0662544	0.27522734	2.3406780	20	10 16.7	20.5
472905 2015 FO_{341}	16.8	X	1.31272	177.22518	66.87094	4.96159	0.1514254	0.22189753	2.7020979	20	5 25.2	19.4
472906 2015 FR_{341}	15.8	X	15.76938	354.18554	261.63262	12.13771	0.1295795	0.22734592	2.6587527	20	7 8.3	18.8
472907 2015 FS_{341}	16.2	X	59.97218	318.66896	243.23726	12.28512	0.1005109	0.22778845	2.6553081	20	6 30.4	19.6
472908 2015 FL_{342}	16.6	X	50.13279	267.29913	308.61922	7.96062	0.1734159	0.22616293	2.6680160	20	7 19.2	19.8
472909 2015 FN_{343}	16.7	X	58.41670	230.86327	349.01531	10.96631	0.1243570	0.22981966	2.6396394	20	8 1.4	20.2
472910 2015 FA_{344}	17.1	X	50.06768	231.01461	0.86603	4.13955	0.1008609	0.23658216	2.5890954	20	7 31.5	20.2
472911 2015 FK_{344}	17.4	X	108.48086	331.40361	193.15429	13.98777	0.1950828	0.23808056	2.5782207	20	7 22.6	21.7
472912 2015 FQ_{344}	17.2	X	114.78114	210.75361	8.98338	10.93738	0.0918584	0.26048832	2.4281595	20	10 5.5	20.7
472913 2015 GR_{2}	16.1	X	206.81259	284.13258	61.57184	15.66110	0.1472830	0.17825564	3.1268510	20	3 24.4	21.4
472914 2015 GT_{2}	17.8	X	123.93519	58.57976	200.58450	4.38142	0.1479853	0.28948106	2.2631983	20	12 11.4	21.2
472915 2015 GU_{2}	17.9	X	205.06883	321.75456	177.85610	4.99692	0.0537948	0.27902459	2.3193933	20	10 9.9	20.7
472916 2015 GT_{3}	17.4	X	12.73990	286.08308	313.64492	0.94882	0.0219098	0.22049151	2.7135727	20	6 4.4	20.8
472917 2015 GZ_{3}	18.3	X	183.48196	16.36937	217.82193	2.33985	0.1366881	0.30545004	2.1836143	20	—	—
472918 2015 GX_{4}	16.7	X	11.54113	154.29754	42.60063	2.23358	0.0332157	0.19039729	2.9924636	20	4 8.6	20.7
472919 2015 GJ_{5}	16.1	X	229.24576	295.10115	44.29890	11.85109	0.0957314	0.18186705	3.0853187	20	4 4.9	20.8
472920 2015 GS_{7}	17.2	X	138.26496	10.14559	135.52476	12.79270	0.0353857	0.23938740	2.5688289	20	7 20.0	20.7
472921 2015 GS_{9}	16.9	X	31.82394	140.74627	112.08228	13.03154	0.0980564	0.23968575	2.5666968	20	8 1.1	19.8
472922 2015 GF_{10}	16.6	X	67.36511	96.68167	118.74311	13.66085	0.1454157	0.23887676	2.5724885	20	8 9.6	19.9
472923 2015 GM_{16}	17.0	X	258.48799	260.72429	124.67213	11.29727	0.0661923	0.23063712	2.6333984	20	7 6.7	20.6
472924 2015 GW_{16}	17.6	X	324.99001	53.26083	203.89446	0.38639	0.1537389	0.19944503	2.9012639	20	4 6.4	21.1
472925 2015 GM_{18}	16.5	X	293.18078	158.18096	122.80061	11.13754	0.0334492	0.19140625	2.9819382	20	4 15.6	20.8
472926 2015 GS_{18}	17.1	X	284.56534	3.86662	7.28975	5.55621	0.0935006	0.24669053	2.5178764	20	7 22.6	20.1
472927 2015 GC_{20}	17.4	X	186.20454	124.60117	30.88850	7.06857	0.0719954	0.27197508	2.3593007	20	10 5.6	20.6
472928 2015 GM_{20}	17.7	X	211.77655	59.31538	77.97741	2.38192	0.1563854	0.28108114	2.3080661	20	10 3.1	20.8
472929 2015 GO_{20}	17.7	X	18.79762	182.88053	178.17990	7.20437	0.1216993	0.28775214	2.2722547	20	12 25.2	20.5
472930 2015 GS_{20}	17.4	X	22.55938	57.03183	183.65893	10.40314	0.1057507	0.22374558	2.6871984	20	6 26.9	20.7
472931 2015 GZ_{20}	17.1	X	336.01036	148.13262	167.40699	2.59477	0.0486128	0.24022237	2.5628730	20	7 26.5	20.2
472932 2015 GC_{22}	17.0	X	9.69232	153.56520	98.22792	3.29146	0.0627429	0.21875643	2.7279025	20	6 18.5	20.4
472933 2015 GL_{23}	15.9	X	354.01077	35.17271	171.45481	17.10008	0.1288743	0.18360140	3.0658581	20	3 24.1	19.4
472934 2015 GT_{23}	16.0	X	301.99476	170.56996	92.89900	17.56164	0.1623070	0.17733961	3.1376095	20	3 22.5	20.6
472935 2015 GZ_{23}	16.4	X	355.16681	197.73540	103.37831	15.54312	0.0567411	0.22800104	2.6536573	20	8 6.7	19.7
472936 2015 GB_{24}	17.3	X	83.45272	46.44616	125.80862	10.41224	0.2444857	0.22259291	2.6964674	20	7 14.1	21.2
472937 2015 GU_{24}	16.6	X	149.47447	301.15135	168.20762	11.75895	0.0358188	0.22130518	2.7069173	20	6 15.6	20.6
472938 2015 GG_{25}	16.2	X	260.41939	171.68969	151.96763	12.55336	0.0473998	0.19723861	2.9228605	20	4 25.2	20.5
472939 2015 GQ_{25}	16.9	X	26.30919	162.01999	86.40072	15.39678	0.1155303	0.22254979	2.6968156	20	7 16.9	20.1
472940 2015 GV_{25}	16.6	X	97.27244	39.20441	92.73955	10.88105	0.2021389	0.21266745	2.7797263	20	6 2.7	20.7
472941 2015 GA_{26}	16.3	X	301.53468	149.42335	106.94181	11.84667	0.1768388	0.17805571	3.1291913	20	3 6.3	20.8
472942 2015 GU_{26}	16.3	X	11.12499	139.00154	103.81627	14.32986	0.0991936	0.21860402	2.7291702	20	6 11.3	19.5
472943 2015 GL_{27}	17.7	X	148.52214	31.74044	164.20936	2.73802	0.1688276	0.26851103	2.3795489	20	10 13.2	21.4
472944 2015 GH_{28}	16.6	X	349.14154	274.33656	282.30794	0.54995	0.1936604	0.18584683	3.0411134	20	2 23.5	19.8
472945 2015 GV_{28}	17.0	X	351.94786	77.91651	190.63647	13.88656	0.1768323	0.21992958	2.7181930	20	6 11.7	19.9
472946 2015 GD_{29}	16.9	X	305.71311	288.23488	19.58630	9.19751	0.2169153	0.21202115	2.7853724	20	5 1.9	20.3
472947 2015 GV_{29}	16.8	X	305.89969	224.77726	21.39043	8.39310	0.1610849	0.18274173	3.0754657	20	2 29.0	21.1
472948 2015 GE_{30}	18.1	X	92.08321	280.26834	350.54275	2.66370	0.1757819	0.27056616	2.3674841	20	11 23.2	21.8
472949 2015 GV_{30}	17.3	X	19.95710	69.61979	181.70901	2.68551	0.1352396	0.22508882	2.6764971	20	7 11.2	20.1
472950 2015 GC_{31}	17.0	X	337.95221	254.44196	37.05959	4.16696	0.1818353	0.21895820	2.7262263	20	6 14.9	19.6
472951 2015 GE_{31}	17.0	X	342.60180	242.75190	26.66386	9.42219	0.1895722	0.21026887	2.8008256	20	5 19.5	19.9
472952 2015 GV_{31}	18.0	X	265.05670	281.48019	200.01410	5.97945	0.1273518	0.30020817	2.2089593	20	12 5.2	20.1
472953 2015 GW_{31}	16.9	X	312.85584	255.37317	19.20039	0.28669	0.1220457	0.20121507	2.8842244	20	4 15.4	20.5
472954 2015 GE_{32}	17.0	X	44.25728	354.66890	203.43589	7.10604	0.1395613	0.21845449	2.7304154	20	6 8.0	20.3
472955 2015 GN_{32}	16.4	X	283.81034	250.13374	93.75321	13.68734	0.2202985	0.21676641	2.7445726	20	5 24.0	20.2
472956 2015 GJ_{33}	16.9	X	154.28953	330.22795	160.18101	11.61600	0.1271632	0.24097835	2.5575101	20	7 21.6	20.9
472957 2015 GQ_{33}	16.7	X	341.00640	251.74665	91.27202	7.60877	0.0218039	0.25364979	2.4716087	20	9 18.4	19.9
472958 2015 GF_{34}	17.2	X	282.94390	33.77819	62.69028	11.39705	0.0352276	0.28710323	2.2756772	20	12 2.6	19.7
472959 2015 GK_{34}	16.4	X	98.41845	78.70828	93.80308	12.52422	0.1245500	0.22553880	2.6729359	20	7 16.9	20.3
472960 2015 GP_{37}	16.9	X	273.00634	242.73763	108.45731	3.77816	0.0989437	0.22443631	2.6816821	20	6 4.7	20.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
472961 2015 GS_{37}	16.8	X	4.55905	132.62811	104.62752	5.00987	0.0407519	0.21371069	2.7706727	20	5 21.8	20.3
472962 2015 GK_{38}	16.4	X	288.89669	158.70309	113.28813	6.54184	0.0994444	0.18738193	3.0244814	20	3 18.5	20.7
472963 2015 GL_{38}	16.9	X	229.53712	256.91720	168.05430	13.82526	0.0234775	0.24465615	2.5318149	20	7 27.7	20.5
472964 2015 GA_{39}	15.7	X	44.06159	2.19455	81.44838	10.36706	0.0834472	0.15994687	3.3611319	20	1 10.3	20.1
472965 2015 GE_{39}	16.6	X	296.99601	266.06894	91.04732	8.51746	0.2190136	0.23746421	2.5826800	20	6 28.6	19.6
472966 2015 GG_{39}	16.4	X	344.70008	225.45135	92.39912	7.38178	0.1849362	0.23680551	2.5874671	20	8 17.0	18.7
472967 2015 GL_{39}	17.6	X	243.83123	6.89739	97.68000	7.67876	0.0593716	0.27548617	2.3392116	20	10 16.0	20.5
472968 2015 GS_{40}	17.6	X	98.98192	177.20349	89.05026	7.04175	0.0877712	0.27472882	2.3435087	20	11 21.3	20.8
472969 2015 GA_{41}	16.5	X	175.00609	323.19038	121.13534	9.21544	0.0580674	0.22664990	2.6641930	20	6 14.3	20.4
472970 2015 GM_{41}	16.5	X	344.73719	82.37564	164.66404	15.63122	0.1069475	0.20412949	2.8567060	20	5 4.9	20.2
472971 2015 GX_{42}	17.3	X	189.75644	46.32106	86.18748	6.24306	0.0775829	0.25997912	2.4313291	20	9 8.6	20.7
472972 2015 GE_{44}	17.4	X	336.15269	215.03854	75.63751	4.64322	0.1749010	0.21803104	2.7339495	20	6 10.7	19.9
472973 2015 GF_{44}	16.0	X	253.35999	232.99538	60.48449	8.88715	0.1103721	0.17995130	3.1071775	20	3 5.6	20.8
472974 2015 GO_{44}	17.1	X	95.97181	50.56516	93.64830	4.37998	0.0360762	0.21541185	2.7560662	20	5 24.4	20.8
472975 2015 GD_{50}	16.7	X	314.53082	181.12275	126.78062	9.08881	0.2113495	0.21171897	2.7880221	20	5 22.4	20.0
472976 2015 GG_{50}	16.4	X	352.25044	166.02308	101.56346	5.24259	0.0513875	0.22157682	2.7047045	20	6 13.3	19.6
472977 2015 HX_{1}	16.5	X	194.46728	333.23789	101.53806	7.23485	0.0165277	0.22501339	2.6770952	20	6 25.9	20.1
472978 2015 HO_{3}	16.3	X	313.65185	342.43261	322.10860	13.10447	0.0149650	0.22886436	2.6469796	20	6 9.4	20.1
472979 2015 HP_{3}	16.8	X	6.77650	20.05095	241.10374	11.46285	0.1671176	0.22565293	2.6720345	20	7 1.3	19.5
472980 2015 HP_{4}	15.6	X	275.61239	314.77265	315.00751	9.67246	0.0883680	0.18630996	3.0360715	20	2 25.6	20.0
472981 2015 HZ_{8}	17.2	X	42.27091	320.70602	259.86823	2.83495	0.1032897	0.22419189	2.6836309	20	7 1.1	20.2
472982 2015 HP_{11}	15.9	X	351.03519	143.16369	53.87023	11.89512	0.1691937	0.17695321	3.1421754	20	3 9.6	19.7
472983 2015 HV_{12}	16.5	X	344.89731	20.35622	207.49659	0.79345	0.1017902	0.19061522	2.9901823	20	4 6.2	20.1
472984 2015 HZ_{12}	16.3	X	21.96072	350.37648	263.45340	7.73925	0.1092261	0.22732141	2.6589438	20	7 14.9	19.3
472985 2015 HB_{13}	16.8	X	327.07779	174.44882	72.44680	12.11561	0.0725332	0.19288867	2.9666404	20	4 13.0	20.8
472986 2015 HT_{14}	16.3	X	66.55796	328.48393	179.91132	10.16167	0.0433446	0.18851420	3.0123586	20	4 23.9	20.4
472987 2015 HU_{14}	16.6	X	351.29051	249.01141	7.30330	8.73034	0.1272835	0.21052438	2.7985589	20	5 21.4	19.8
472988 2015 HO_{15}	15.5	X	141.73691	306.73607	97.66604	9.82349	0.0266384	0.17986374	3.1081858	20	3 19.9	20.1
472989 2015 HL_{17}	18.1	X	166.18071	132.58593	62.14932	1.83024	0.1435256	0.27837791	2.3229839	20	10 30.0	21.4
472990 2015 HM_{20}	17.3	X	211.99844	84.84108	40.28141	6.15455	0.0915317	0.26864555	2.3787545	20	9 24.3	20.5
472991 2015 HG_{21}	17.8	X	172.20342	58.33884	76.83954	2.98740	0.1592341	0.25548635	2.4597497	20	8 18.0	21.7
472992 2015 HJ_{21}	18.1	X	122.25551	91.74276	149.19118	2.75726	0.1496666	0.27175622	2.3605673	20	11 14.7	21.8
472993 2015 HT_{21}	16.6	X	155.42693	280.70408	181.21434	9.33558	0.0896558	0.22640827	2.6660883	20	6 15.4	20.7
472994 2015 HJ_{22}	17.1	X	49.53253	89.31158	95.65358	4.87947	0.1291691	0.21188495	2.7865658	20	5 27.8	20.5
472995 2015 HR_{23}	16.5	X	332.48657	208.07335	92.43227	5.18704	0.0200779	0.22684738	2.6626467	20	6 30.8	19.7
472996 2015 HH_{24}	16.1	X	259.23413	116.52728	163.94953	5.35575	0.0370688	0.17587297	3.1550287	20	2 29.1	20.7
472997 2015 HU_{28}	16.1	X	263.87712	136.57308	157.50104	9.17878	0.0366748	0.18508034	3.0495038	20	3 23.1	20.4
472998 2015 HD_{29}	16.8	X	105.24588	81.69070	69.74283	5.03032	0.1290690	0.22774851	2.6556185	20	6 27.3	20.6
472999 2015 HL_{29}	16.7	X	167.45480	295.50952	188.58239	10.44721	0.0728841	0.24246554	2.5470416	20	7 25.9	20.6
473000 2015 HU_{29}	16.7	X	162.87559	306.56437	171.10694	6.03438	0.0588533	0.23547200	2.5972268	20	7 12.9	20.4
473001 2015 HZ_{34}	15.8	X	269.71272	188.09759	93.80649	5.66800	0.1368870	0.17432621	3.1736638	20	3 4.6	20.5
473002 2015 HK_{35}	15.6	X	2.98298	335.47292	185.52708	13.04335	0.0730637	0.16964118	3.2318301	20	2 9.9	20.1
473003 2015 HR_{36}	16.4	X	234.32325	253.32996	176.11880	12.30972	0.1195196	0.24563205	2.5251045	20	7 26.9	20.2
473004 2015 HH_{38}	17.2	X	350.55925	161.07684	144.11957	8.90474	0.1187520	0.22949015	2.6421655	20	8 3.9	20.0
473005 2015 HO_{38}	16.6	X	155.11832	339.57265	122.65737	9.56625	0.1493352	0.22482209	2.6786135	20	6 18.2	21.0
473006 2015 HQ_{38}	17.2	X	129.47370	15.32565	145.01182	8.91682	0.1655796	0.24089449	2.5581036	20	8 7.3	21.3
473007 2015 HC_{40}	17.1	X	206.31690	2.85752	116.86776	8.14488	0.1129189	0.25722844	2.4486313	20	9 6.7	20.7
473008 2015 HE_{40}	16.1	X	273.63595	161.93505	145.37762	9.62962	0.0642623	0.18947458	3.0021709	20	4 18.3	20.4
473009 2015 HV_{40}	16.3	X	255.14125	115.95326	162.40167	4.37072	0.0845188	0.16828689	3.2491457	20	2 17.5	21.2
473010 2015 HX_{40}	16.8	X	139.53842	16.07889	108.81903	3.13295	0.1001581	0.22715202	2.6602655	20	6 28.1	20.8
473011 2015 HC_{42}	17.5	X	124.68217	202.82490	18.64468	2.30051	0.1377285	0.27151928	2.3619404	20	10 22.1	21.0
473012 2015 HJ_{42}	16.6	X	294.30180	182.52709	77.75314	2.10797	0.1923480	0.17580879	3.1557965	20	2 26.1	21.1
473013 2015 HM_{42}	16.9	X	203.17659	130.64387	30.28868	24.77779	0.2150455	0.28895333	2.2659531	20	10 20.1	20.1
473014 2015 HQ_{42}	17.1	X	86.83446	183.03108	74.27802	3.56415	0.1653175	0.25637127	2.4540862	20	10 30.9	20.7
473015 2015 HV_{44}	17.5	X	97.21711	102.33108	158.74826	6.23179	0.1598139	0.26861441	2.3789383	20	11 17.1	21.2
473016 2015 HD_{55}	16.7	X	284.22914	235.60556	157.51809	8.32471	0.1291733	0.25247559	2.4792660	20	8 15.3	19.6
473017 2015 HX_{55}	16.1	X	289.68378	46.31570	253.00948	12.63324	0.1998285	0.18469880	3.0537021	20	3 31.5	20.8
473018 2015 HZ_{55}	16.1	X	233.30541	76.82944	269.77423	8.52395	0.0910707	0.18561704	3.0436227	20	4 10.7	20.9
473019 2015 HN_{56}	15.9	X	301.45703	18.47951	270.40379	9.35141	0.0540718	0.19290014	2.9665228	20	4 25.5	20.1
473020 2015 HT_{56}	16.7	X	280.26895	26.83089	328.43197	5.77049	0.0966414	0.21402966	2.7679192	20	6 20.1	20.4
473021 2015 HC_{57}	16.5	X	203.66080	82.88185	281.18981	4.96794	0.1216665	0.17795411	3.1303822	20	4 1.9	21.5
473022 2015 HS_{59}	15.9	X	223.38649	59.66525	296.34244	8.19051	0.0366935	0.18529954	3.0470985	20	4 15.2	20.5
473023 2015 HJ_{60}	16.1	X	20.99165	49.35364	146.16014	11.39984	0.0639838	0.18271702	3.0757431	20	4 25.3	20.2
473024 2015 HL_{61}	16.8	X	129.22422	110.14123	29.92052	9.26286	0.1474247	0.23409484	2.6074030	20	7 12.2	21.0
473025 2015 HX_{61}	16.7	X	291.13717	252.33776	100.13822	10.08737	0.1166704	0.22865541	2.6485920	20	6 29.3	20.1
473026 2015 HF_{62}	16.2	X	104.92367	74.38397	87.96985	11.56654	0.1162021	0.21858224	2.7293515	20	7 9.6	20.2
473027 2015 HB_{64}	16.8	X	328.43910	251.60715	29.42818	3.96201	0.0617704	0.20951017	2.8075832	20	5 24.5	20.3
473028 2015 HE_{64}	16.9	X	225.77688	217.94075	209.35777	4.98501	0.1074901	0.24015210	2.5633729	20	7 16.0	20.7
473029 2015 HH_{68}	16.8	X	274.58121	320.24945	39.50124	6.49324	0.0518646	0.22340989	2.6898896	20	6 25.5	20.4
473030 2015 HB_{69}	16.3	X	243.90949	286.66791	39.21393	13.54088	0.1844552	0.17979860	3.1089365	20	3 28.5	21.4
473031 2015 HR_{69}	16.8	X	330.09864	19.67355	204.95943	2.36011	0.1418921	0.18105483	3.0945391	20	3 5.8	20.6
473032 2015 HS_{71}	16.3	X	284.68921	281.98371	45.88467	11.11126	0.1913155	0.20290170	2.8682187	20	5 5.9	20.2
473033 2015 HG_{72}	17.5	X	199.21848	310.75500	158.73638	2.05789	0.0335976	0.24581933	2.5238219	20	8 18.6	21.0
473034 2015 HE_{73}	16.4	X	232.25187	256.59632	67.05095	2.78793	0.1624456	0.17329459	3.1862466	20	3 13.9	21.4
473035 2015 HW_{73}	16.9	X	298.74661	197.13678	98.65180	3.08981	0.0864512	0.19864951	2.9090044	20	4 29.9	20.8
473036 2015 HS_{74}	17.8	X	258.94390	322.77282	139.91479	2.11051	0.0571743	0.27494490	2.3422807	20	11 1.2	20.4
473037 2015 HD_{75}	16.3	X	269.56522	255.71510	37.29631	8.99358	0.0838974	0.18137373	3.0909107	20	3 24.3	20.8
473038 2015 HG_{75}	16.7	X	244.53606	206.27882	210.68519	4.49598	0.0616230	0.24046065	2.5611797	20	7 31.3	20.1
473039 2015 HX_{76}	17.3	X	274.83294	160.20655	190.40930	1.39189	0.0326481	0.21777793	2.7360675	20	6 16.3	20.9
473040 2015 HK_{77}	16.9	X	136.45509	97.21811	21.65858	5.70350	0.1981470	0.22690069	2.6622296	20	6 23.7	21.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
473041 2015 HA_{79}	16.7	X	326.31023	344.32915	244.13636	3.31411	0.1810386	0.17993036	3.1074186	20	2 27.7	20.7
473042 2015 HU_{79}	17.1	X	317.08268	353.67803	22.81095	3.44718	0.1331127	0.25278672	2.4772312	20	9 21.2	19.3
473043 2015 HM_{80}	17.4	X	231.35037	43.25711	15.09896	2.28071	0.0160477	0.23233959	2.6205185	20	7 23.8	20.8
473044 2015 HW_{80}	16.5	X	237.60470	120.44401	226.02918	9.94455	0.1452621	0.18927251	3.0043073	20	4 12.4	21.2
473045 2015 HM_{81}	16.9	X	214.23922	355.93411	33.15286	2.43338	0.0726149	0.20615901	2.8379267	20	5 16.9	21.1
473046 2015 HQ_{81}	17.7	X	149.29307	210.40983	24.59829	2.75584	0.2122847	0.27959525	2.3162363	20	11 30.5	21.4
473047 2015 HU_{81}	16.5	X	313.90499	353.76884	225.96945	4.12282	0.0629154	0.16929461	3.2362393	20	2 17.5	21.0
473048 2015 HH_{82}	16.5	X	256.82665	275.17441	49.87567	4.00546	0.1568025	0.18598994	3.0395532	20	4 7.3	21.1
473049 2015 HY_{83}	15.9	X	308.29558	42.69690	199.87584	11.03503	0.0225953	0.17899248	3.1182638	20	3 13.1	20.2
473050 2015 HB_{84}	17.3	X	356.06605	49.58118	146.00708	2.31130	0.2055481	0.18405394	3.0608306	20	3 6.2	20.4
473051 2015 HL_{84}	16.9	X	212.19998	0.01508	71.47973	4.08199	0.0483727	0.23065733	2.6332446	20	7 12.4	20.5
473052 2015 HR_{85}	16.8	X	191.33281	40.89078	52.05166	11.52489	0.0939394	0.23492958	2.6012230	20	7 14.5	20.8
473053 2015 HG_{86}	16.1	X	188.56428	313.54024	59.98250	11.68097	0.0650885	0.18424621	3.0587009	20	4 5.9	20.8
473054 2015 HK_{86}	18.1	X	183.11623	21.82472	175.53937	4.77405	0.0933972	0.28313933	2.2968673	20	11 25.9	21.3
473055 2015 HM_{87}	17.1	X	57.40059	48.26055	182.33188	7.34056	0.0617553	0.22991618	2.6389006	20	7 30.4	20.5
473056 2015 HR_{88}	16.0	X	298.53005	194.14422	52.74624	10.96745	0.0954871	0.17273490	3.1931255	20	3 4.6	20.6
473057 2015 HU_{88}	16.3	X	243.07268	121.07190	210.13240	15.54304	0.1610071	0.18065623	3.0990892	20	3 29.1	21.3
473058 2015 HQ_{90}	15.4	X	194.44546	93.75567	179.75459	3.72698	0.1796313	0.12460498	3.9698959	20	—	—
473059 2015 HZ_{90}	16.4	X	114.92767	292.66484	213.07440	10.86814	0.1352162	0.22232456	2.6986367	20	6 29.9	20.7
473060 2015 HB_{91}	16.6	X	339.75039	120.40238	94.57016	2.32932	0.1077289	0.18003468	3.1062180	20	3 14.3	20.4
473061 2015 HO_{91}	16.4	X	175.59194	58.14129	46.30520	10.22648	0.1167285	0.23092983	2.6311727	20	7 11.7	20.6
473062 2015 HR_{91}	16.4	X	254.19600	201.36359	144.99241	2.73089	0.1072829	0.19764022	2.9188997	20	5 5.8	20.6
473063 2015 HR_{92}	17.2	X	17.63037	116.75715	69.99559	4.97971	0.1117373	0.18845702	3.0129678	20	4 7.7	20.8
473064 2015 HG_{93}	17.0	X	224.24559	6.18709	57.64749	8.80678	0.0443797	0.23028417	2.6360886	20	7 18.9	20.8
473065 2015 HQ_{93}	16.8	X	287.96934	251.83910	102.61595	4.52029	0.1176529	0.22036928	2.7145761	20	6 26.8	20.3
473066 2015 HC_{94}	16.3	X	297.44817	200.95077	150.42597	5.61865	0.0763083	0.22587655	2.6702706	20	7 12.9	19.6
473067 2015 HD_{94}	15.4	X	187.62816	246.36660	82.12257	8.92660	0.0589634	0.15499656	3.4323219	20	2 12.1	20.6
473068 2015 HF_{94}	17.4	X	11.35733	185.82219	140.73353	4.55519	0.0984933	0.25022540	2.4941072	20	10 15.9	20.2
473069 2015 HP_{94}	16.1	X	338.11981	132.06487	66.59634	11.31502	0.1528964	0.17280638	3.1922449	20	2 19.9	20.2
473070 2015 HQ_{94}	17.9	X	199.84582	69.73548	76.39641	7.27739	0.1219133	0.26769968	2.3843545	20	10 5.9	21.4
473071 2015 HZ_{95}	17.3	X	347.35458	272.13991	88.29676	4.93047	0.1214857	0.25679058	2.4514140	20	10 28.2	19.7
473072 2015 HX_{96}	18.2	X	14.39477	215.26232	194.02065	1.37065	0.1462548	0.30842758	2.1695379	20	—	—
473073 2015 HV_{99}	16.4	X	79.77051	64.42528	87.15519	6.88275	0.0180553	0.20157890	2.8807528	20	5 11.3	20.3
473074 2015 HD_{102}	17.0	X	332.57709	259.19672	341.97087	1.03049	0.1189327	0.18874668	3.0098845	20	4 2.5	20.6
473075 2015 HV_{104}	17.8	X	236.57687	30.24783	148.65844	6.63326	0.0510988	0.30405340	2.1902960	20	—	—
473076 2015 HG_{105}	17.4	X	98.28713	110.64265	87.44663	10.45499	0.0146007	0.23928785	2.5695414	20	8 8.9	20.9
473077 2015 HE_{107}	16.6	X	47.22051	100.33469	122.84453	12.19366	0.0215834	0.22398891	2.6852520	20	7 1.2	20.1
473078 2015 HQ_{114}	16.5	X	238.80967	242.54534	139.19945	9.59789	0.1578429	0.21786543	2.7353349	20	5 29.3	20.9
473079 2015 HC_{115}	16.6	X	338.96427	189.90229	124.06512	9.62067	0.2124075	0.22240185	2.6980114	20	7 21.4	18.7
473080 2015 HP_{120}	13.6	X	296.53871	222.31277	209.02750	10.33896	0.0714483	0.08449589	5.1433449	20	10 3.6	20.3
473081 2015 HX_{123}	17.3	X	340.60095	115.08560	188.17198	2.54590	0.1876441	0.21788675	2.7351564	20	7 8.7	19.9
473082 2015 HF_{138}	16.9	X	324.08830	222.40528	105.86795	4.18535	0.0644808	0.22869007	2.6483244	20	7 24.7	20.0
473083 2015 HG_{144}	16.5	X	6.31943	330.85268	235.39705	5.43419	0.1640902	0.19596896	2.9354715	20	4 9.5	19.7
473084 2015 HN_{145}	17.5	X	272.14099	139.08399	2.34496	6.71361	0.0150886	0.29989702	2.2104869	20	—	—
473085 2015 HQ_{148}	16.6	X	96.90799	105.80968	37.27781	13.94372	0.1487272	0.21680117	2.7442793	20	6 6.3	20.7
473086 2015 HK_{149}	16.6	X	79.03359	276.69325	241.66230	7.51166	0.0578189	0.20548887	2.8440933	20	5 23.3	20.3
473087 2015 HL_{149}	17.2	X	157.06086	120.12663	355.35353	4.22218	0.0909258	0.22629381	2.6669872	20	7 5.2	21.2
473088 2015 HT_{149}	16.4	X	348.15995	235.71470	325.32119	3.18248	0.0869937	0.17755155	3.1351121	20	3 9.4	20.5
473089 2015 HN_{150}	15.9	X	253.25238	76.27406	225.55754	21.93601	0.0850140	0.17366283	3.1817408	20	3 7.4	21.0
473090 2015 HC_{151}	16.6	X	89.90971	117.06471	11.57267	9.38497	0.0397000	0.19357771	2.9595963	20	4 24.3	20.7
473091 2015 HU_{153}	16.1	X	149.88760	251.58030	183.45051	10.44006	0.1187329	0.19237546	2.9719142	20	5 9.7	20.8
473092 2015 HU_{154}	16.3	X	320.26055	202.68735	109.74982	7.01038	0.0900931	0.21156355	2.7893873	20	6 22.2	19.6
473093 2015 HZ_{154}	16.5	X	49.11947	250.06323	338.94776	14.97706	0.0796253	0.23382571	2.6094033	20	7 25.5	19.9
473094 2015 HA_{162}	16.4	X	285.48044	57.90178	238.45329	2.90456	0.1065979	0.18968704	2.9999288	20	4 8.6	20.7
473095 2015 HJ_{162}	16.5	X	273.63377	317.93564	33.66407	6.41683	0.0924832	0.21400697	2.7681148	20	6 5.7	20.3
473096 2015 HU_{162}	16.7	X	290.73393	57.93595	209.95085	2.53506	0.0687046	0.17979521	3.1089755	20	3 17.1	21.0
473097 2015 HV_{165}	15.9	X	240.89760	234.90423	87.69812	2.63335	0.1819918	0.17224354	3.1991953	20	3 19.1	21.1
473098 2015 HW_{165}	16.4	X	16.18261	349.10151	201.48003	7.29450	0.0405599	0.18653963	3.0335790	20	4 6.6	20.4
473099 2015 HG_{167}	17.5	X	17.38783	193.47435	138.94839	4.39035	0.1187448	0.25619105	2.4552369	20	11 6.8	20.4
473100 2015 HN_{167}	16.8	X	346.60385	98.76817	129.62662	4.51550	0.1434639	0.18962453	3.0005880	20	4 8.6	20.3
473101 2015 HT_{169}	16.5	X	261.42032	258.11825	36.22351	3.56814	0.1006861	0.17693600	3.1423792	20	3 13.2	21.1
473102 2015 HV_{170}	17.0	X	79.94163	153.90642	63.75791	11.60962	0.0722787	0.23281983	2.6169137	20	8 22.0	20.8
473103 2015 HW_{170}	15.8	X	132.72308	240.22754	185.43273	9.40978	0.0659973	0.17984955	3.1083493	20	4 4.4	20.3
473104 2015 HB_{172}	16.5	X	34.46895	295.24392	319.50302	6.44158	0.1800352	0.23147593	2.6270328	20	8 18.9	19.5
473105 2015 HO_{172}	16.5	X	51.34841	296.78536	249.42419	7.67843	0.1590776	0.21256007	2.7806624	20	6 5.5	19.8
473106 2015 HQ_{172}	16.1	X	271.24933	28.95610	261.53004	5.55332	0.2640765	0.17621098	3.1509928	20	2 26.3	21.2
473107 2015 HT_{172}	17.9	X	104.92804	318.71550	273.52072	1.34083	0.1295402	0.26000907	2.4311423	20	10 13.5	21.5
473108 2015 HC_{173}	17.7	X	102.23771	332.35568	258.15874	2.83844	0.1302575	0.25812095	2.4429836	20	10 7.6	21.4
473109 2015 HM_{173}	17.0	X	103.06663	229.26500	322.21394	4.31935	0.0785948	0.23891058	2.5722458	20	8 11.9	20.4
473110 2015 HN_{173}	16.6	X	93.35250	286.12120	229.17814	11.08618	0.2467323	0.22384311	2.6864179	20	7 1.7	20.8
473111 2015 HS_{173}	16.6	X	36.43631	133.77142	76.26008	5.89656	0.0933192	0.21046629	2.7990738	20	6 5.2	19.9
473112 2015 HZ_{173}	15.4	X	339.83543	128.79682	80.74352	12.16074	0.0615453	0.17770992	3.1332492	20	3 17.9	19.8
473113 2015 HA_{174}	15.7	X	251.10691	205.61335	99.05118	10.29151	0.1391125	0.17181487	3.2045144	20	3 14.6	20.8
473114 2015 HL_{174}	16.7	X	315.92148	47.50341	184.64464	9.87054	0.1899553	0.18203186	3.0834562	20	2 15.4	20.9
473115 2015 HU_{175}	15.7	X	305.81936	79.33515	161.73852	9.44985	0.0293148	0.17399155	3.1777321	20	3 10.4	20.2
473116 2015 HW_{175}	16.2	X	356.75965	173.61781	38.05847	11.41617	0.0793857	0.18613100	3.0380173	20	4 8.1	20.1
473117 2015 HZ_{175}	16.9	X	88.14053	115.95726	79.80271	14.12117	0.2174355	0.23161405	2.6259883	20	8 21.5	21.1
473118 2015 HS_{176}	16.0	X	306.83386	99.76829	141.91675	26.49860	0.2557742	0.16919176	3.2375507	20	2 9.6	20.6
473119 2015 HF_{177}	17.8	X	208.67827	246.10209	305.97562	6.57462	0.1115626	0.30112886	2.2044545	20	12 21.5	20.4
473120 2015 HL_{179}	16.0	X	16.02898	122.19998	78.90038	13.39986	0.0984698	0.19042083	2.9922170	20	4 27.0	19.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
473121 2015 HJ_{180}	17.6	X	141.40645	183.90917	15.47531	2.68727	0.1398746	0.26636568	2.3923086	20	10 9.8	21.1
473122 2015 JS	16.3	X	72.53619	319.13375	253.37015	12.29869	0.2156566	0.22799638	2.6536935	20	8 14.4	20.3
473123 2015 JS_2	15.8	X	276.63257	163.49515	119.79663	9.86719	0.2130377	0.17303697	3.1894083	20	3 4.9	20.7
473124 2015 JV_2	16.2	X	11.12595	49.78546	154.96246	11.45880	0.0608409	0.18879924	3.0093259	20	4 21.8	20.2
473125 2015 JH_3	15.8	X	50.04098	305.37731	145.92232	27.40821	0.2749283	0.18190776	3.0848584	20	2 13.1	18.8
473126 2015 JP_3	15.7	X	180.51458	88.19226	279.99423	10.59661	0.0860500	0.17299999	3.1898627	20	3 12.7	20.8
473127 2015 JZ_4	15.7	X	133.02165	196.68644	261.34065	16.48297	0.0966170	0.20141813	2.8822855	20	5 15.6	20.1
473128 2015 JG_5	16.3	X	133.95808	232.27842	282.26552	10.01528	0.0614496	0.23021247	2.6366358	20	7 26.7	20.1
473129 2015 JM_5	15.9	X	130.31303	93.98681	325.42000	9.39601	0.0694240	0.17355040	3.1831147	20	3 21.8	20.8
473130 2015 JQ_6	16.0	X	216.48551	47.59249	302.79520	7.47889	0.0238576	0.18372123	3.0645249	20	4 1.1	20.5
473131 2015 JV_6	16.2	X	183.52195	86.90386	286.41321	7.41264	0.0944469	0.17474985	3.1685326	20	3 23.5	21.2
473132 2015 JZ_6	16.9	X	87.29637	217.95136	335.74843	5.89242	0.0311661	0.22326102	2.6910852	20	7 18.8	20.6
473133 2015 JS_7	16.4	X	351.30362	60.32613	125.52157	14.53331	0.1377795	0.17618133	3.1513462	20	2 22.9	20.2
473134 2015 JJ_{10}	16.0	X	250.12826	84.82630	250.03144	15.68695	0.1534706	0.17498371	3.1657088	20	4 7.6	21.2
473135 2015 KK_2	16.4	X	16.51422	319.23023	300.64693	11.41067	0.1013117	0.23147399	2.6270474	20	7 15.6	19.3
473136 2015 KD_3	15.8	X	246.11056	81.80355	231.42859	19.59618	0.1303494	0.17102988	3.2143122	20	3 9.4	21.2
473137 2015 KK_3	16.6	X	152.05500	63.25159	41.22586	4.11533	0.0508064	0.21206158	2.7850183	20	6 11.9	20.5
473138 2015 KR_3	16.5	X	340.91417	68.82423	236.85057	12.81983	0.0903827	0.23493787	2.6011617	20	7 15.3	19.7
473139 2015 KT_3	15.3	X	252.70589	5.84474	288.95347	10.19420	0.1215921	0.18061421	3.0995700	20	2 25.6	20.2
473140 2015 KP_4	16.9	X	314.61796	54.65219	331.49355	6.44641	0.1135958	0.26953308	2.3735297	20	10 2.2	19.2
473141 2015 KN_5	16.5	X	313.31840	75.47143	216.92559	13.30664	0.1802184	0.20454414	2.8528440	20	5 1.4	19.7
473142 2015 KH_6	16.1	X	239.65502	189.24857	146.48293	8.88320	0.0561177	0.17929049	3.1148075	20	4 14.6	20.7
473143 2015 KL_6	16.3	X	251.33697	195.22850	117.56224	11.40098	0.0539539	0.17381580	3.1798737	20	4 2.6	21.1
473144 2015 KP_6	15.7	X	117.74063	335.56974	126.57255	9.92255	0.0894047	0.18929723	3.0040458	20	5 7.9	20.2
473145 2015 KQ_8	15.4	X	257.44367	235.10575	76.62265	24.48560	0.1123714	0.18231524	3.0802601	20	4 9.9	20.5
473146 2015 KW_{10}	16.2	X	213.20487	241.89789	114.24744	17.26907	0.1358685	0.17129776	3.2109602	20	4 11.6	21.6
473147 2015 KG_{11}	15.7	X	316.54945	172.26682	110.13290	14.47512	0.1327393	0.18984942	2.9982179	20	5 6.9	19.7
473148 2015 KL_{11}	16.3	X	261.75719	193.61872	130.86763	12.13497	0.0343236	0.18535008	3.0465445	20	5 1.0	20.8
473149 2015 KU_{12}	16.8	X	82.82721	65.06646	121.75663	11.86503	0.1375552	0.21689823	2.7434605	20	7 17.7	20.7
473150 2015 KY_{12}	16.0	X	152.40403	286.21210	138.97401	12.25388	0.0881205	0.18139967	3.0906160	20	5 1.1	20.9
473151 2015 KR_{14}	15.9	X	145.68051	198.55914	215.94764	21.11378	0.0763782	0.16911217	3.2385664	20	4 4.1	20.9
473152 2015 KM_{16}	16.3	X	349.44450	63.04353	166.99214	11.50300	0.0800860	0.18588057	3.0407454	20	4 21.2	20.2
473153 2015 KW_{17}	15.6	X	167.04209	274.54707	141.58035	12.09972	0.0673586	0.18199789	3.0838399	20	5 4.3	20.4
473154 2015 KR_{20}	16.4	X	115.65824	307.57798	248.17503	10.85782	0.0931329	0.23627698	2.5913243	20	8 27.9	20.5
473155 2015 KZ_{21}	15.8	X	85.12601	351.66114	101.26730	9.75881	0.0046839	0.17715542	3.1397839	20	3 7.3	20.3
473156 2015 KS_{24}	16.4	X	110.95573	292.54659	150.22638	11.66407	0.0826178	0.17450652	3.1714774	20	4 5.4	21.1
473157 2015 KH_{26}	17.9	X	157.85835	259.45201	317.73535	1.75594	0.1318955	0.27502076	2.3418500	20	11 18.4	21.3
473158 2015 KN_{26}	16.9	X	15.24124	23.99875	302.53837	2.25128	0.2279085	0.24124112	2.5556527	20	11 6.3	19.8
473159 2015 KW_{27}	16.9	X	35.75192	279.81525	301.92216	3.04652	0.0434914	0.21288147	2.7778629	20	6 14.7	20.4
473160 2015 KE_{28}	17.2	X	317.01868	65.87684	271.23399	4.66893	0.0902694	0.22665567	2.6641479	20	7 22.1	20.2
473161 2015 KE_{29}	15.6	X	88.17622	216.76300	245.38936	9.69454	0.0652766	0.17928621	3.1148570	20	3 22.4	20.0
473162 2015 KP_{30}	16.4	X	268.51855	58.39085	235.30810	11.70698	0.0965851	0.17664611	3.1458161	20	3 14.9	21.2
473163 2015 KA_{31}	16.7	X	259.55904	340.74511	338.69851	2.37923	0.1159330	0.18320001	3.0703347	20	4 6.2	21.3
473164 2015 KC_{31}	16.4	X	205.29157	19.84528	34.68112	5.97585	0.0655263	0.21256419	2.7806264	20	6 8.5	20.6
473165 2015 KO_{31}	16.3	X	265.92426	220.37595	60.46772	2.93498	0.0940931	0.16853925	3.2459016	20	3 3.7	21.0
473166 2015 KS_{31}	16.6	X	285.03944	38.05941	226.13147	4.52864	0.0911154	0.17104843	3.2140797	20	3 2.3	21.2
473167 2015 KE_{32}	16.5	X	37.55929	266.31237	248.29126	5.89492	0.0789340	0.18026311	3.1035934	20	3 21.9	20.7
473168 2015 KR_{32}	16.2	X	316.60696	335.37913	252.66934	4.32383	0.1060768	0.17116778	3.2125856	20	2 24.7	20.6
473169 2015 KU_{32}	17.2	X	78.96287	170.44861	44.48691	13.16086	0.1131877	0.23122892	2.6289033	20	8 24.4	21.1
473170 2015 KJ_{38}	16.2	X	92.02236	37.45624	191.80892	7.42427	0.1479590	0.24038906	2.5616881	20	9 25.2	20.0
473171 2015 KY_{38}	16.1	X	356.05192	109.86627	94.02398	11.60257	0.0240344	0.17346556	3.1841526	20	4 3.9	20.7
473172 2015 KY_{39}	17.3	X	311.85892	102.56031	200.68834	1.58570	0.0545893	0.20029518	2.8930485	20	5 31.9	20.9
473173 2015 KT_{46}	17.6	X	177.22149	90.23332	115.56730	4.04664	0.1027683	0.27603409	2.3361151	20	11 27.7	20.8
473174 2015 KR_{49}	16.7	X	8.90087	50.57308	222.53768	7.98472	0.1433800	0.21136954	2.7910939	20	7 19.9	20.0
473175 2015 KU_{52}	16.1	X	43.74750	70.31853	92.45009	10.66869	0.0249960	0.17455469	3.1708938	20	4 14.2	20.6
473176 2015 KF_{57}	15.4	X	43.97095	346.84672	100.32233	29.09072	0.1654617	0.17517154	3.1634454	20	1 15.8	19.1
473177 2015 KT_{59}	15.9	X	359.67299	78.76431	107.97569	16.94429	0.1555301	0.17509288	3.1643928	20	3 12.8	19.9
473178 2015 KZ_{60}	16.3	X	291.76118	302.46185	46.64956	7.96870	0.0568608	0.22126359	2.7072565	20	7 4.9	19.9
473179 2015 KP_{63}	16.1	X	160.91572	341.74459	82.47404	12.08598	0.0812987	0.19637169	2.9314565	20	5 7.1	20.6
473180 2015 KM_{64}	16.2	X	3.10149	64.25658	145.40914	6.91261	0.0300106	0.18778166	3.0201877	20	4 15.9	20.3
473181 2015 KL_{67}	17.2	X	12.76395	257.80618	102.52727	7.60369	0.1098482	0.26688747	2.3891895	20	12 8.7	19.9
473182 2015 KU_{67}	16.8	X	291.95416	200.39258	141.61861	7.52840	0.0588313	0.21513911	2.7583951	20	6 24.5	20.5
473183 2015 KX_{67}	16.3	X	327.33674	262.77885	75.78437	17.66849	0.0420677	0.23386452	2.6091146	20	8 22.6	19.9
473184 2015 KD_{69}	16.3	X	253.49547	144.38741	134.43102	11.07787	0.0868157	0.16110199	3.3450461	20	2 18.1	21.3
473185 2015 KN_{70}	16.4	X	307.06604	92.23534	151.90454	10.97016	0.0292677	0.17363148	3.1821238	20	3 16.9	20.8
473186 2015 KR_{70}	16.2	X	249.58365	240.44004	114.49241	11.19128	0.0493613	0.20036804	2.8923472	20	5 20.8	20.5
473187 2015 KD_{71}	16.5	X	119.60585	8.86293	125.65260	10.47260	0.1436010	0.21646894	2.7470864	20	6 22.9	20.7
473188 2015 KG_{71}	16.5	X	285.28175	110.64855	134.93925	10.87705	0.0748161	0.16160858	3.3380520	20	2 15.3	21.2
473189 2015 KO_{71}	15.8	X	203.49318	196.44186	171.22683	12.53827	0.0772500	0.18027012	3.1035129	20	4 11.8	20.6
473190 2015 KF_{72}	16.5	X	266.24368	268.58972	93.63780	14.93632	0.1718915	0.20648326	2.8349549	20	6 1.6	20.6
473191 2015 KJ_{73}	16.1	X	285.13853	80.06902	198.92185	12.49514	0.2179655	0.17144080	3.2091740	20	3 2.7	20.9
473192 2015 KU_{73}	15.9	X	7.54893	93.04449	90.29455	11.37367	0.0975043	0.17764815	3.1339754	20	3 22.9	20.0
473193 2015 KZ_{75}	16.7	X	237.23491	197.98931	158.13865	10.44693	0.1091360	0.18900527	3.0071385	20	5 1.6	21.4
473194 2015 KH_{76}	15.9	X	305.83143	147.90601	107.38175	11.62415	0.0139815	0.17730235	3.1380490	20	4 3.9	20.5
473195 2015 KJ_{76}	16.5	X	242.38207	183.82466	127.97693	10.55074	0.0312916	0.17188232	3.2036759	20	3 23.2	21.2
473196 2015 KQ_{77}	16.3	X	232.41605	242.17189	119.20325	9.69339	0.1006165	0.18951895	3.0017023	20	5 4.4	21.0
473197 2015 KM_{82}	16.1	X	209.39509	252.36812	103.27816	17.42085	0.1404309	0.17163391	3.2067664	20	4 8.1	21.6
473198 2015 KV_{83}	16.2	X	299.76356	146.89491	120.09891	11.62440	0.0689708	0.17917219	3.1161784	20	4 2.4	20.7
473199 2015 KF_{90}	16.2	X	334.02252	128.67701	93.71190	7.04338	0.1250910	0.17447156	3.1719010	20	3 16.3	20.3
473200 2015 KB_{91}	15.8	X	238.75463	272.33507	79.95338	12.13928	0.0812472	0.18604933	3.0389063	20	5 2.1	20.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
473201 2015 KT_{94}	16.5	X	64.71220	334.93654	185.44861	9.43457	0.0316281	0.18938268	3.0031421	20	5 5.1	20.6
473202 2015 KF_{98}	16.1	X	355.58408	121.07089	102.16988	10.15479	0.0339791	0.18373841	3.0643339	20	4 25.2	20.4
473203 2015 KW_{101}	15.8	X	269.12718	224.50745	87.64153	12.07333	0.0673407	0.18025592	3.1036759	20	4 20.9	20.4
473204 2015 KF_{103}	16.8	X	95.21198	36.84662	110.76982	9.39959	0.2386782	0.20985468	2.8045097	20	6 24.2	21.0
473205 2015 KX_{110}	16.2	X	160.87610	230.49856	182.92652	9.42355	0.0901200	0.17494148	3.1662183	20	4 23.0	21.0
473206 2015 KG_{113}	16.6	X	286.18948	109.05350	198.89812	9.82279	0.0703859	0.18479927	3.0525952	20	5 1.8	20.8
473207 2015 KM_{113}	16.2	X	298.31974	58.48815	219.68703	14.84184	0.0944990	0.17594100	3.1542154	20	4 3.5	20.6
473208 2015 KE_{115}	15.6	X	174.37399	199.32193	110.36675	10.75164	0.1410002	0.12367412	3.9897912	20	1 13.3	21.7
473209 2015 KJ_{116}	15.8	X	276.97717	233.88048	84.90674	17.00022	0.0935552	0.18435959	3.0574467	20	5 5.7	20.3
473210 2015 KM_{116}	15.7	X	184.95317	130.09522	183.10718	5.49214	0.1548002	0.12691845	3.9215058	20	1 24.7	21.9
473211 2015 KB_{120}	15.6	X	355.24344	268.04000	272.52016	14.71919	0.1939052	0.17686329	3.1432403	20	2 9.1	19.4
473212 2015 KT_{125}	16.5	X	112.81784	254.78078	203.72853	9.75631	0.0375278	0.18930421	3.0039719	20	4 17.1	20.7
473213 2015 KF_{129}	16.3	X	160.09403	232.91541	187.33568	9.07282	0.1253652	0.19222629	2.9734515	20	5 1.6	21.0
473214 2015 KS_{129}	17.4	X	181.34101	15.61433	105.34422	4.90093	0.0205755	0.23697138	2.5862596	20	8 12.3	20.8
473215 2015 KX_{129}	16.5	X	4.75965	140.25479	67.03132	5.99925	0.2037352	0.19025569	2.9939481	20	4 11.8	19.4
473216 2015 KB_{131}	16.5	X	83.34887	319.12876	203.03551	11.91135	0.0173677	0.19943435	2.9013675	20	5 29.0	20.6
473217 2015 KP_{133}	17.2	X	23.82377	104.37719	173.34787	11.29180	0.0544824	0.22221821	2.6994976	20	8 13.5	20.7
473218 2015 KW_{133}	15.7	X	262.80362	41.30137	258.59806	8.36283	0.0532901	0.17421900	3.1749657	20	3 21.9	20.5
473219 2015 KY_{133}	16.8	X	83.78335	309.11015	269.11124	2.65781	0.1705224	0.23463201	2.6034218	20	9 3.0	20.6
473220 2015 KY_{135}	17.9	X	296.71996	218.33510	253.98986	3.46005	0.0537869	0.29384013	2.2407598	20	—	—
473221 2015 KF_{140}	17.3	X	236.90736	3.07350	72.67888	4.09775	0.0752544	0.23821238	2.5772695	20	8 17.2	20.8
473222 2015 KD_{141}	17.0	X	108.99970	306.31566	216.16669	4.13964	0.0912764	0.21921716	2.7240789	20	7 10.6	20.9
473223 2015 KY_{141}	17.1	X	46.36278	152.73814	67.79745	5.73836	0.0516949	0.21219553	2.7838462	20	6 29.8	20.8
473224 2015 KW_{142}	15.8	X	144.59498	11.24667	54.43925	10.89326	0.0287803	0.18008837	3.1056006	20	4 16.9	20.3
473225 2015 KX_{144}	16.4	X	0.97816	119.90816	93.98923	3.76322	0.0564090	0.18365041	3.0653127	20	4 17.2	20.4
473226 2015 KG_{145}	16.2	X	345.92989	185.63463	43.27874	10.25417	0.0787838	0.18514185	3.0488284	20	4 13.8	20.0
473227 2015 KO_{147}	16.0	X	309.96386	151.89390	129.42374	17.13658	0.1097811	0.17955633	3.1117324	20	4 30.4	20.5
473228 2015 KW_{147}	15.8	X	265.60285	200.78851	157.97562	15.57197	0.1706547	0.18889083	3.0083530	20	5 28.9	20.5
473229 2015 KC_{150}	16.6	X	307.20856	124.30961	138.89515	6.18643	0.1635784	0.18221170	3.0814269	20	3 21.2	20.8
473230 2015 KP_{151}	16.7	X	324.88224	293.51518	82.06054	9.63602	0.1832099	0.25148108	2.4857980	20	10 9.9	19.0
473231 2015 KH_{152}	15.7	X	279.69306	354.94404	306.38959	14.40362	0.1665813	0.17880322	3.1204639	20	3 24.4	20.5
473232 2015 KE_{156}	16.3	X	316.41847	73.80492	181.03646	26.78105	0.2366188	0.17517305	3.1634273	20	3 10.2	20.5
473233 2015 KG_{161}	17.5	X	90.90162	42.58654	210.47487	2.62925	0.0561406	0.25170328	2.4843349	20	10 17.1	20.9
473234 2015 LA	16.4	X	335.71102	174.14041	168.04987	33.99246	0.1881542	0.23371333	2.6102397	20	8 30.5	18.8
473235 2015 LO	16.7	X	357.17152	122.67247	173.95248	14.40390	0.0952388	0.22421344	2.6834589	20	7 31.1	20.0
473236 2015 LM_{3}	16.4	X	254.07740	162.83140	261.19521	14.13396	0.0336707	0.24489619	2.5301602	20	8 21.8	20.0
473237 2015 LM_{4}	15.9	X	272.23891	357.42753	297.77396	8.17769	0.0441888	0.18145376	3.0900018	20	3 27.8	20.5
473238 2015 LZ_{4}	15.8	X	277.15246	10.70990	266.01068	13.50959	0.0542749	0.17303398	3.1894450	20	3 7.7	20.7
473239 2015 LL_{6}	14.9	X	187.36783	339.83904	314.35139	8.68977	0.2266793	0.12479489	3.9658672	20	1 9.3	21.5
473240 2015 LE_{13}	16.8	X	267.99577	283.22491	168.30147	9.84779	0.1022945	0.25764816	2.4459713	20	10 21.2	19.7
473241 2015 LL_{23}	16.3	X	325.30678	155.38441	101.58366	5.94824	0.0964931	0.18206102	3.0831269	20	4 18.5	20.3
473242 2015 LH_{32}	16.0	X	214.85620	303.81719	102.45821	9.48901	0.1005772	0.17531604	3.1617070	20	6 7.6	20.9
473243 2015 LV_{36}	16.0	X	301.17564	37.61528	235.42049	16.53976	0.1925746	0.17772198	3.1331075	20	3 13.6	20.6
473244 2015 LE_{37}	16.4	X	79.61079	130.61191	70.41111	13.87150	0.1146573	0.22435015	2.6823687	20	8 2.4	20.3
473245 2015 LG_{37}	15.8	X	255.59933	241.58105	72.72913	12.39235	0.1126828	0.17629851	3.1499498	20	4 3.6	20.7
473246 2015 LN_{37}	15.8	X	313.15863	7.79493	235.85553	14.15905	0.1960784	0.17134786	3.2103343	20	2 22.2	20.4
473247 2015 MF_{1}	16.1	X	358.58843	287.54087	328.08215	9.43172	0.0420804	0.18454272	3.0554236	20	6 4.6	20.3
473248 2015 MT_{1}	16.2	X	49.39194	326.11274	268.71452	12.71892	0.0448409	0.22713875	2.6603691	20	7 20.9	19.7
473249 2015 MW_{1}	16.5	X	289.76079	275.15184	89.80657	12.70392	0.0665930	0.22673638	2.6635156	20	7 23.6	19.9
473250 2015 MA_{2}	16.4	X	302.82715	143.71155	110.93474	10.40700	0.1355852	0.17172479	3.2056349	20	3 12.2	20.9
473251 2015 MD_{2}	16.2	X	309.95214	175.95588	112.45515	10.54066	0.0320495	0.19336922	2.9617233	20	5 15.8	20.3
473252 2015 ML_{6}	16.1	X	202.77230	272.24594	134.78069	9.80802	0.0787741	0.17155323	3.2077717	20	5 29.3	21.1
473253 2015 MF_{15}	16.2	X	287.21467	152.02756	210.84090	9.26577	0.1485032	0.18748065	3.0234196	20	6 29.8	20.4
473254 2015 MQ_{19}	17.0	X	149.69956	132.80266	6.46249	5.76140	0.0914092	0.23289749	2.6163320	20	7 30.0	20.9
473255 2015 MT_{21}	16.2	X	95.45381	305.00133	243.62531	27.11577	0.1519985	0.23048514	2.6345560	20	7 26.5	20.7
473256 2015 MT_{23}	17.5	X	327.01877	238.64774	61.01908	5.24024	0.0494771	0.21099839	2.7943660	20	6 18.7	21.1
473257 2015 MF_{24}	15.9	X	276.29188	252.62944	50.38168	11.71752	0.0721131	0.18430198	3.0580838	20	4 15.0	20.2
473258 2015 MU_{24}	16.4	X	44.48208	97.84616	47.50364	10.13154	0.0395376	0.17432163	3.1737195	20	3 24.8	20.8
473259 2015 MD_{26}	15.9	X	266.38240	60.84980	267.68294	8.74088	0.1114295	0.18926579	3.0043785	20	4 23.5	20.3
473260 2015 MX_{26}	17.1	X	84.44799	124.34917	43.07380	10.05805	0.0818085	0.20908218	2.8114134	20	6 14.4	21.0
473261 2015 MA_{28}	15.4	X	168.32682	290.24768	26.05100	9.47056	0.1908761	0.12480183	3.9657204	20	1 19.5	21.9
473262 2015 MN_{31}	15.9	X	243.10533	243.72229	92.49738	11.93366	0.1250067	0.18197142	3.0841389	20	4 14.9	20.8
473263 2015 ML_{35}	15.8	X	219.94723	246.21122	101.50354	11.05673	0.0662444	0.17725644	3.1385908	20	4 9.2	20.7
473264 2015 MT_{35}	16.4	X	333.85234	161.35784	122.09914	8.20000	0.0356428	0.20558781	2.8431808	20	6 8.8	20.2
473265 2015 MY_{35}	16.0	X	166.37667	304.56978	102.40994	12.72777	0.1487832	0.18209308	3.0827650	20	4 26.8	21.2
473266 2015 MC_{36}	15.3	X	230.25201	244.35088	93.92678	14.21550	0.0666222	0.17650150	3.1475341	20	4 10.7	20.2
473267 2015 MN_{37}	16.6	X	272.20087	129.61722	187.50729	9.92484	0.2319603	0.17680846	3.1438901	20	4 4.8	21.3
473268 2015 MF_{38}	16.4	X	103.09838	355.09656	118.99883	12.39516	0.0296486	0.18505690	3.0497614	20	4 29.1	20.9
473269 2015 MJ_{42}	16.9	X	250.68781	179.38002	205.89651	14.72966	0.0688806	0.21245017	2.7816213	20	6 23.9	21.1
473270 2015 MM_{44}	16.0	X	108.44344	342.42915	124.59976	14.21046	0.1665999	0.18316437	3.0707329	20	5 14.3	20.9
473271 2015 MH_{66}	15.8	X	128.64633	245.94832	285.85112	13.72838	0.0904963	0.20508965	2.8477830	20	8 9.8	20.2
473272 2015 MR_{91}	15.3	X	272.41338	3.83658	281.53157	15.48578	0.0188544	0.17603892	3.1530456	20	3 15.5	20.1
473273 2015 MJ_{92}	16.2	X	310.69584	150.02252	112.75635	7.25869	0.1139317	0.18003133	3.1062565	20	4 3.6	20.4
473274 2015 MW_{92}	16.1	X	318.79414	172.99580	95.05648	9.71187	0.0731110	0.18776848	3.0203291	20	4 27.3	20.2
473275 2015 MW_{93}	15.3	X	242.42960	247.59800	87.89174	11.62626	0.0676303	0.18085291	3.0968420	20	4 18.6	20.0
473276 2015 MC_{94}	16.0	X	264.46571	145.63295	180.35940	12.74816	0.1179681	0.17122563	3.2118619	20	4 22.9	20.8
473277 2015 NT_{10}	15.9	X	139.63298	316.26046	145.32265	20.52955	0.1022562	0.20515833	2.8471473	20	6 2.5	20.6
473278 2015 ND_{11}	16.1	X	22.41154	36.43952	143.56481	16.38632	0.0322562	0.18096428	3.0955713	20	4 7.2	20.5
473279 2015 NG_{12}	15.6	X	40.81328	54.71318	113.90952	27.57388	0.1217823	0.17756059	3.1350057	20	5 4.8	20.2
473280 2015 NR_{22}	16.4	X	338.49485	80.28525	156.13255	10.24653	0.1458819	0.17763285	3.1341554	20	4 7.0	20.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
473281 2015 NT_{25}	16.4	X	311.85830	248.37722	69.54218	4.42016	0.1423049	0.20103047	2.8859898	20	6 8.8	20.0
473282 2015 OC_{5}	14.6	X	255.27277	10.76075	244.33672	11.54453	0.1858924	0.12466736	3.9685716	20	1 16.2	20.9
473283 2015 OO_{19}	17.0	X	30.15327	115.02631	186.17163	9.59436	0.2212544	0.21423499	2.7661503	20	10 20.9	20.3
473284 2015 OE_{42}	17.2	X	6.88720	165.92984	185.67676	5.05850	0.1699759	0.21173933	2.7878433	20	11 11.7	20.3
473285 2015 PZ_{7}	17.5	X	130.73662	111.87704	171.80134	14.34382	0.1582178	0.26026951	2.4295202	20	—	—
473286 2015 PD_{30}	16.4	X	290.33945	61.58249	303.62137	8.83625	0.1227991	0.18082178	3.0971974	20	7 12.7	20.4
473287 2015 PZ_{46}	16.1	X	352.01679	198.01146	94.95879	5.94929	0.1835466	0.18672193	3.0316042	20	7 16.7	19.2
473288 2015 PT_{281}	16.6	X	297.91242	281.15476	76.90715	10.74846	0.2420827	0.17811126	3.1285406	20	6 24.6	20.5
473289 2015 PL_{293}	18.0	X	165.84522	344.54246	302.92853	4.24313	0.2058979	0.28190007	2.3035939	20	—	—
473290 2015 PF_{294}	16.0	X	323.92947	162.84653	161.74057	31.57038	0.2521892	0.17842169	3.1249108	20	6 26.8	20.1
473291 2015 PY_{304}	17.4	X	162.19961	258.76672	356.19385	14.48969	0.0936791	0.25688105	2.4508384	20	—	—
473292 2015 PP_{305}	16.5	X	41.78846	314.56474	359.78744	6.75289	0.1405004	0.22054506	2.7131335	20	11 8.4	20.1
473293 2015 PW_{306}	16.6	X	66.65554	308.07815	63.98205	8.32485	0.1490063	0.25709127	2.4495022	20	—	—
473294 2015 PM_{310}	15.9	X	326.05911	289.98079	77.74665	10.06723	0.1217198	0.19710101	2.9242207	20	9 19.7	19.5
473295 2015 QO	16.4	X	11.49221	164.39462	180.11675	12.71282	0.1728331	0.21987431	2.7186485	20	11 13.8	19.7
473296 2015 QR_{10}	17.9	X	82.38444	225.15488	188.69325	5.86390	0.1885566	0.28541384	2.2846483	20	1 14.7	20.0
473297 2015 RW_{10}	16.8	X	101.50720	316.42950	314.48272	8.37286	0.1422529	0.23889510	2.5723569	20	11 23.7	21.0
473298 2015 RV_{16}	15.8	X	15.57426	86.10003	202.67303	11.67889	0.0662625	0.18163264	3.0879726	20	8 10.9	20.0
473299 2015 RJ_{17}	17.3	X	49.10401	133.75563	271.24339	6.06348	0.0901490	0.26137940	2.4226377	20	—	—
473300 2015 RF_{25}	17.6	X	179.89003	78.57917	183.31042	1.92173	0.1986534	0.27837955	2.3229748	20	—	—
473301 2015 RA_{27}	17.4	X	116.38873	321.53059	18.25422	6.81125	0.1430102	0.26445348	2.4038269	20	—	—
473302 2015 RX_{34}	17.6	X	127.63945	73.97724	235.45069	0.82796	0.1812981	0.26707203	2.3880886	20	—	—
473303 2015 RC_{56}	16.5	X	278.21419	207.97038	204.62155	4.59380	0.1299499	0.18433434	3.0577259	20	8 23.7	20.6
473304 2015 RV_{70}	15.9	X	60.95894	96.69050	167.56129	9.17381	0.0317198	0.18840964	3.0134730	20	9 10.8	19.9
473305 2015 RK_{84}	15.6	X	303.15411	77.46879	255.99496	12.69940	0.2198007	0.17217025	3.2001031	20	6 3.7	19.6
473306 2015 RT_{87}	17.4	X	125.75661	45.90303	264.27486	5.46550	0.1223241	0.26121150	2.4236758	20	—	—
473307 2015 RO_{88}	16.6	X	43.93960	63.62982	264.72001	13.89165	0.1150497	0.21763648	2.7372528	20	11 26.2	20.4
473308 2015 RM_{89}	15.9	X	262.19528	99.08389	344.12923	24.62775	0.2666856	0.17745390	3.1362621	20	8 27.3	20.6
473309 2015 RO_{92}	16.8	X	45.37179	130.27891	193.17323	14.63957	0.1410861	0.22661113	2.6644969	20	11 29.4	20.6
473310 2015 RR_{96}	17.9	X	92.32798	31.50537	356.41980	7.10118	0.1059636	0.28184641	2.3038863	20	—	—
473311 2015 RE_{101}	17.7	X	95.76933	216.10962	149.10127	4.49224	0.1629457	0.27011345	2.3701286	20	—	—
473312 2015 RH_{104}	16.9	X	14.21538	95.71606	292.44393	5.23472	0.0717835	0.23646684	2.5899371	20	—	—
473313 2015 RD_{105}	16.3	X	335.80223	130.21674	202.20556	9.19507	0.1166744	0.18509079	3.0493891	20	8 7.9	20.2
473314 2015 RW_{106}	16.6	X	169.09740	237.27273	357.67246	14.23021	0.0443126	0.23877685	2.5732061	20	12 21.7	20.5
473315 2015 RU_{108}	16.1	X	334.54681	203.94116	137.35970	6.02843	0.1712977	0.18018152	3.1045302	20	8 18.4	19.5
473316 2015 RG_{118}	16.5	X	309.22995	257.55403	174.42131	12.40528	0.1536722	0.22126982	2.7072058	20	11 18.6	19.5
473317 2015 RN_{122}	16.6	X	109.57812	195.74344	97.20732	10.66512	0.1573084	0.24697344	2.5159531	20	12 31.6	20.6
473318 2015 RP_{185}	16.0	X	306.40218	190.98175	186.51430	10.34951	0.1099708	0.17805102	3.1292462	20	8 20.6	20.0
473319 2015 RC_{222}	16.4	X	49.01283	104.70642	181.91352	9.69828	0.0804840	0.19397291	2.9555751	20	10 2.2	20.3
473320 2015 RB_{224}	16.3	X	215.40584	112.94464	19.91529	27.27572	0.1505396	0.18534391	3.0466122	20	9 26.9	21.2
473321 2015 RJ_{240}	16.3	X	50.81828	238.02218	157.26011	14.24877	0.1840042	0.23979126	2.5659438	20	—	—
473322 2015 SW_{2}	15.6	X	318.58830	315.69265	80.16649	29.28052	0.2188238	0.18044929	3.1014582	20	10 17.9	19.6
473323 2015 SO_{10}	17.0	X	64.84383	327.66750	348.75387	13.58986	0.0758140	0.22661423	2.6644727	20	11 30.6	21.0
473324 2015 SW_{17}	17.7	X	85.79797	323.85033	49.83972	2.95642	0.2075723	0.26545564	2.3977731	20	—	—
473325 2015 SR_{19}	16.1	X	291.98262	293.92248	91.82427	11.28819	0.0860759	0.17027364	3.2238223	20	8 17.9	20.5
473326 2015 TY_{6}	16.0	X	344.84294	290.25601	358.26530	11.41406	0.0924665	0.17809582	3.1287214	20	6 28.7	20.1
473327 2015 TZ_{6}	17.6	X	114.09371	338.70670	27.99247	6.27321	0.1725278	0.28662563	2.2782045	20	—	—
473328 2015 TV_{12}	16.1	X	90.90924	303.81921	305.08167	8.11273	0.1102578	0.21123366	2.7922907	20	10 7.1	20.4
473329 2015 TG_{69}	16.5	X	256.00839	92.90247	10.75080	8.63668	0.2169246	0.17776285	3.1326272	20	9 18.7	20.9
473330 2015 TE_{82}	17.0	X	348.33770	39.87667	42.35603	7.14764	0.0953119	0.22584145	2.6705473	20	—	—
473331 2015 TO_{85}	18.0	X	60.96525	73.86715	65.81499	2.98715	0.0367328	0.30495625	2.1859708	20	3 24.5	20.2
473332 2015 TD_{91}	18.0	X	95.29817	349.60907	228.57772	20.47465	0.0503312	0.37330916	1.9102503	20	9 14.7	20.6
473333 2015 TC_{104}	17.9	X	66.91545	231.71779	181.54589	11.75692	0.1538281	0.25667895	2.4521247	20	—	—
473334 2015 TF_{104}	15.9	X	249.23323	306.53883	189.11619	13.43979	0.1514438	0.18836801	3.0139170	20	10 31.1	20.1
473335 2015 TD_{107}	17.2	X	32.95434	244.60192	172.32227	5.53187	0.1493072	0.23663628	2.5887006	20	—	—
473336 2015 TR_{109}	17.8	X	130.51643	233.55573	160.65221	7.25599	0.1787356	0.28502264	2.2867383	20	2 25.3	20.8
473337 2015 TS_{110}	17.8	X	102.09685	4.56666	79.51755	8.31488	0.1523934	0.28983115	2.2613755	20	3 29.7	20.6
473338 2015 TM_{122}	15.2	X	74.24294	150.86112	78.32606	13.32442	0.0296616	0.15869513	3.3787832	20	8 14.9	20.1
473339 2015 TP_{147}	15.8	X	12.09307	295.12159	23.63011	11.03044	0.0522981	0.17922555	3.1155599	20	9 19.8	19.9
473340 2015 TO_{160}	17.9	X	68.24564	47.34460	301.19440	4.67486	0.1124156	0.24741184	2.5129802	20	—	—
473341 2015 TK_{171}	16.8	X	64.61898	169.23148	167.69018	6.45546	0.0510514	0.21941731	2.7224221	20	12 23.9	20.7
473342 2015 TZ_{171}	16.1	X	323.39201	272.31597	101.91485	5.87171	0.1450875	0.18213812	3.0822568	20	9 16.6	19.7
473343 2015 TD_{189}	16.1	X	41.98578	22.90458	284.18692	11.49799	0.1572817	0.21215593	2.7841925	20	10 29.2	20.0
473344 2015 TG_{190}	16.4	X	304.63326	155.99121	214.70889	10.12135	0.1061082	0.17926357	3.1151193	20	8 8.1	20.7
473345 2015 TD_{193}	16.2	X	343.50094	5.01591	324.55624	2.79577	0.1280324	0.18153088	3.0891266	20	8 20.0	19.6
473346 2015 TL_{193}	16.4	X	110.94730	275.92334	4.15313	12.68032	0.1890621	0.23428269	2.6060091	20	12 15.2	21.0
473347 2015 TU_{193}	16.3	X	18.96641	103.05597	274.62739	5.26475	0.0467607	0.22490992	2.6779161	20	12 18.7	19.6
473348 2015 TE_{197}	16.3	X	70.47087	334.10117	316.39891	8.67848	0.1711254	0.21242408	2.7818490	20	11 13.9	20.6
473349 2015 TT_{204}	17.1	X	35.32038	324.84276	50.53776	7.04611	0.0406392	0.22337354	2.6901814	20	—	—
473350 2015 TG_{205}	17.1	X	59.60892	95.17566	215.95633	12.28948	0.2250091	0.22596503	2.6695736	20	12 9.2	21.2
473351 2015 TL_{209}	16.3	X	263.34494	60.72430	18.61460	16.15893	0.2533793	0.17387257	3.1791815	20	8 28.5	21.1
473352 2015 TH_{216}	15.8	X	199.78914	70.48348	320.41168	1.96053	0.2630908	0.12495541	3.9624702	20	4 30.1	22.6
473353 2015 TQ_{233}	16.0	X	326.41167	42.24130	299.63175	8.09271	0.1074158	0.17535989	3.1611798	20	8 6.4	20.0
473354 2015 TN_{242}	16.4	X	344.23736	40.35710	313.84254	8.25335	0.1846818	0.18824557	3.0152237	20	9 22.6	19.7
473355 2015 TF_{244}	16.6	X	329.32483	244.92284	119.82412	4.03939	0.1618859	0.18485116	3.0520239	20	9 12.8	19.9
473356 2015 TU_{247}	16.4	X	323.45882	175.40217	177.55447	6.74563	0.1603614	0.18207787	3.0829367	20	8 12.4	19.9
473357 2015 TP_{249}	16.5	X	21.64927	111.69994	244.45900	4.10548	0.1158112	0.20648856	2.8349064	20	11 29.9	20.0
473358 2015 TS_{252}	16.4	X	41.18839	250.86277	50.62027	7.05635	0.2151443	0.19816512	2.9137430	20	10 31.8	20.2
473359 2015 TV_{256}	16.3	X	246.21816	75.51271	44.60298	9.33551	0.1505250	0.18452153	3.0556576	20	10 8.9	20.7
473360 2015 TK_{265}	16.8	X	331.90367	107.17758	207.24301	15.24592	0.2558637	0.17551184	3.1593550	20	6 24.5	20.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
473361 2015 TY_{266}	17.2	X	227.31414	311.91381	309.75812	4.49631	0.1028938	0.28760680	2.2730202	20	—	—
473362 2015 TE_{282}	17.2	X	48.24506	12.11973	333.99061	4.06331	0.0790123	0.22476980	2.6790289	20	12 20.9	20.8
473363 2015 TS_{292}	15.6	X	251.71692	209.46310	223.26477	13.04563	0.1085195	0.17213847	3.2004970	20	8 13.7	20.5
473364 2015 TU_{296}	17.8	X	62.84333	355.95550	14.85877	14.54945	0.0761906	0.24716056	2.5146831	20	—	—
473365 2015 TG_{303}	17.5	X	102.51108	27.39489	356.00709	5.52740	0.2021588	0.26790549	2.3831331	20	1 13.7	20.2
473366 2015 TE_{304}	15.9	X	200.04706	59.46774	88.46296	10.44981	0.0340410	0.18641354	3.0349468	20	10 7.0	20.4
473367 2015 TC_{312}	16.3	X	117.84806	183.11065	124.41756	15.99432	0.0897804	0.22947165	2.6423075	20	—	—
473368 2015 TP_{331}	15.9	X	121.30549	157.90001	106.06090	15.42631	0.1776319	0.21966822	2.7203486	20	12 5.7	20.6
473369 2015 UZ_{9}	16.9	X	314.34648	209.41316	145.78707	1.91739	0.1870420	0.17602261	3.1532404	20	7 27.1	20.6
473370 2015 UB_{12}	15.8	X	241.46876	245.46695	195.84673	11.89225	0.0607526	0.17634775	3.1493633	20	8 21.0	20.4
473371 2015 UM_{12}	16.5	X	358.03371	187.35288	190.34408	6.13280	0.0243884	0.21112156	2.7932791	20	11 16.1	20.3
473372 2015 UA_{17}	16.8	X	54.76823	172.82569	163.35198	6.40353	0.0394587	0.22125201	2.7073510	20	12 10.7	20.5
473373 2015 UW_{17}	16.1	X	33.32196	195.69270	79.16596	3.48925	0.2304871	0.18452553	3.0556134	20	9 17.4	19.9
473374 2015 UN_{38}	16.2	X	308.27233	201.82950	174.76227	9.95883	0.1047802	0.18001358	3.1064607	20	8 24.1	20.2
473375 2015 UY_{45}	16.2	X	282.85437	0.49550	79.81751	12.81896	0.0539989	0.18866161	3.0107892	20	10 23.6	20.4
473376 2015 UP_{49}	17.2	X	42.15320	240.32392	175.67947	14.71218	0.1017888	0.24443414	2.5333477	20	—	—
473377 2015 UA_{54}	16.3	X	352.80014	284.05030	45.02542	11.22281	0.0639639	0.18150820	3.0893840	20	9 8.9	20.5
473378 2015 UZ_{65}	16.8	X	26.61644	304.73757	81.41558	14.18020	0.2682344	0.22378181	2.6869084	20	—	—
473379 2015 US_{66}	16.1	X	299.28418	275.16319	146.36331	12.25092	0.1430427	0.18085369	3.0968331	20	10 9.4	20.0
473380 2015 UL_{72}	15.8	X	292.05632	350.92517	43.75046	10.52090	0.1026163	0.18327301	3.0695193	20	8 31.3	20.0
473381 2015 UQ_{72}	16.7	X	318.27862	208.48343	206.56827	1.51397	0.0570757	0.20720727	2.8283472	20	11 8.1	20.1
473382 2015 UX_{72}	16.8	X	35.19681	267.41207	77.66186	4.87125	0.1052232	0.21232126	2.7827470	20	12 4.0	20.5
473383 2015 UQ_{73}	16.6	X	311.02705	349.10753	33.47260	2.46861	0.1355226	0.18141820	3.0904056	20	9 5.0	20.3
473384 2015 UZ_{77}	16.8	X	36.24937	161.67481	227.79638	6.39209	0.0535299	0.22413899	2.6840531	20	—	—
473385 2015 UL_{78}	15.7	X	306.18533	303.13442	82.06532	16.88064	0.0955442	0.17644395	3.1482185	20	9 12.3	20.1
473386 2015 UL_{83}	16.0	X	339.46435	300.15578	84.69196	16.04489	0.1518207	0.20338144	2.8637065	20	11 8.3	19.3
473387 2015 UX_{83}	15.8	X	282.85969	357.43649	51.72549	21.12158	0.1097547	0.17649221	3.1476445	20	9 11.5	20.4
473388 2015 VW_{23}	15.8	X	260.08205	353.46747	99.45809	19.37921	0.1517285	0.18017524	3.1046023	20	9 27.9	20.5
473389 2015 VC_{25}	16.2	X	329.72467	246.60632	111.89984	17.61658	0.2484944	0.17700144	3.1416046	20	8 31.8	19.5
473390 2015 VF_{25}	15.6	X	292.86137	302.55530	127.34056	18.42334	0.1258457	0.18148822	3.0896107	20	10 16.3	19.9
473391 2015 VC_{26}	16.2	X	333.99918	265.47575	90.63894	6.21359	0.1433019	0.17738324	3.1370949	20	9 10.6	19.8
473392 2015 VH_{26}	15.6	X	5.87227	332.85249	0.49307	11.04796	0.0506433	0.18400618	3.0613602	20	9 26.4	19.7
473393 2015 VG_{39}	15.9	X	289.91312	172.68223	247.21381	10.73202	0.0811812	0.18320943	3.0702294	20	9 22.2	20.2
473394 2015 VK_{40}	16.6	X	293.64422	248.16529	182.56806	9.52385	0.1331593	0.18914301	3.0056784	20	10 12.5	20.2
473395 2015 VX_{40}	16.3	X	319.70658	208.06720	188.39256	15.21607	0.1110144	0.18622861	3.0369556	20	10 10.7	19.8
473396 2015 VF_{41}	15.3	X	325.36747	305.21005	70.27403	16.52102	0.0999949	0.17973054	3.1097213	20	9 30.7	19.5
473397 2015 VT_{41}	17.3	X	356.46903	279.42995	175.20492	13.36402	0.1284540	0.23383490	2.6093350	20	—	—
473398 2015 VX_{51}	16.0	X	6.14878	107.66634	220.66571	14.83124	0.1048403	0.18173209	3.0868460	20	9 20.7	20.0
473399 2015 VD_{63}	17.6	X	162.86143	243.41107	137.46667	8.03715	0.0975845	0.29768739	2.2214119	20	3 7.1	20.5
473400 2015 VN_{71}	15.7	X	18.45752	228.35824	81.58771	20.42830	0.0990578	0.17569195	3.1571954	20	9 30.5	20.2
473401 2015 VP_{74}	17.8	X	134.89703	264.79547	101.80046	6.49823	0.2415064	0.28031399	2.3122753	20	2 3.9	21.0
473402 2015 VQ_{88}	17.0	X	68.06809	12.24013	21.63889	8.47017	0.0479126	0.25338487	2.4733311	20	—	—
473403 2015 VQ_{93}	18.0	X	77.45676	13.93122	29.51226	2.61243	0.1142384	0.26122718	2.4235788	20	—	—
473404 2015 VM_{94}	16.7	X	257.30373	26.83287	67.39744	8.28382	0.1221862	0.17554660	3.1589380	20	9 24.4	21.2
473405 2015 VM_{96}	16.5	X	79.44044	44.87426	285.62287	4.69895	0.0480974	0.22128713	2.7070645	20	—	—
473406 2015 VY_{101}	16.1	X	321.92197	178.07807	198.19765	10.46423	0.0752296	0.17728425	3.1382626	20	9 15.3	20.2
473407 2015 VA_{103}	17.1	X	145.00299	274.31713	62.61617	11.48209	0.1481243	0.26788159	2.3832749	20	—	—
473408 2015 VG_{112}	16.9	X	2.36637	259.84488	191.01733	8.57221	0.1304581	0.23911151	2.5708046	20	—	—
473409 2015 VH_{113}	18.0	X	87.42021	233.34180	163.27862	1.75571	0.1892062	0.26097106	2.4251642	20	1 5.9	20.4
473410 2015 VY_{116}	16.0	X	332.95147	159.33599	207.17932	10.24842	0.0730612	0.17933753	3.1142628	20	9 19.3	20.0
473411 2015 VK_{117}	16.1	X	281.93227	225.95637	203.05207	9.70658	0.0964915	0.18058187	3.0999400	20	9 23.5	20.3
473412 2015 VR_{117}	15.9	X	222.43868	37.39892	106.84333	11.69233	0.0696183	0.18894086	3.0078220	20	10 24.9	20.4
473413 2015 VY_{117}	16.3	X	265.39706	202.10541	240.95736	10.88156	0.1902865	0.17444268	3.1722511	20	8 31.9	21.0
473414 2015 VE_{118}	16.1	X	334.59200	270.40270	85.07778	6.83955	0.1949493	0.17917225	3.1161777	20	9 10.0	19.4
473415 2015 VN_{118}	16.5	X	8.77387	351.00616	100.12797	15.27013	0.0215994	0.24609658	2.5219260	20	—	—
473416 2015 VB_{120}	16.5	X	285.92029	224.51177	219.41229	8.53179	0.2444859	0.18394290	3.0620624	20	9 26.6	20.4
473417 2015 VS_{123}	15.9	X	280.03254	22.30433	50.41239	13.89040	0.1293200	0.17807562	3.1289580	20	9 29.1	20.2
473418 2015 VV_{124}	17.2	X	24.03742	288.32246	90.15563	12.48885	0.2107523	0.22728598	2.6592201	20	—	—
473419 2015 VW_{128}	16.5	X	26.63522	204.73897	157.22572	14.33445	0.2021943	0.21181286	2.7871981	20	12 28.3	20.4
473420 2015 VQ_{129}	17.6	X	355.65012	304.20369	115.30600	4.51369	0.1898006	0.21787013	2.7352956	20	—	—
473421 2015 VE_{131}	17.1	X	69.53437	242.53712	242.12084	21.64174	0.1946391	0.28696826	2.2763907	20	4 3.2	19.8
473422 2015 VJ_{135}	16.3	X	292.13348	23.13902	64.38917	7.03476	0.2011109	0.18804694	3.0173466	20	10 23.9	19.8
473423 2015 VU_{135}	17.0	X	349.34136	270.84091	220.09568	2.82455	0.1912433	0.24144619	2.5542054	20	—	—
473424 2015 VE_{137}	17.7	X	355.36667	137.20080	278.59446	3.02978	0.1993265	0.21527181	2.7572614	20	—	—
473425 2015 VE_{141}	16.2	X	316.38190	338.68144	60.61847	10.11272	0.1309040	0.18341599	3.0679239	20	10 10.8	19.9
473426 2015 VG_{141}	17.2	X	345.09880	228.11973	216.39750	15.37062	0.2528700	0.21796198	2.7345270	20	—	—
473427 2015 VM_{141}	15.7	X	276.94870	10.62971	66.62001	22.06426	0.1800794	0.17605078	3.1529040	20	9 29.4	20.3
473428 2015 VR_{141}	16.9	X	337.92616	343.89390	80.28886	5.75931	0.1687330	0.20623922	2.8371908	20	12 25.2	19.9
473429 2015 VR_{143}	15.9	X	233.59939	27.47835	86.14420	14.27553	0.1448693	0.17980785	3.1088298	20	9 21.7	20.8
473430 2015 VG_{149}	17.1	X	43.34111	254.20181	107.01744	13.66486	0.2203200	0.22282677	2.6945803	20	—	—
473431 2015 WS_{3}	16.9	X	88.85130	146.19053	216.30277	3.62278	0.1580783	0.24243408	2.5472619	20	—	—
473432 2015 WC_{5}	16.6	X	359.17770	256.51719	111.22783	3.15045	0.1276181	0.19634108	2.9317612	20	11 10.9	20.0
473433 2015 WH_{7}	16.5	X	304.13702	139.69318	275.93755	10.17998	0.2585986	0.18237554	3.0795812	20	9 14.3	20.1
473434 2015 WK_{7}	16.4	X	214.93127	239.94994	289.62923	8.64404	0.0288356	0.19141640	2.9818328	20	11 14.1	20.8
473435 2015 WE_{12}	18.0	X	150.65633	287.43977	97.66021	7.06131	0.1880936	0.29502432	2.2347597	20	3 9.6	21.3
473436 2015 WN_{14}	17.8	X	82.18047	276.72674	142.27287	5.13378	0.2391577	0.26838322	2.3803043	20	2 4.8	20.0
473437 2015 WV_{14}	17.2	X	69.88490	30.99079	60.81083	7.89355	0.0741113	0.27514407	2.3411502	20	2 8.4	19.9
473438 2015 WC_{15}	16.8	X	1.30417	317.64707	89.77835	10.11085	0.1537347	0.21288796	2.7778064	20	—	—
473439 2015 WH_{15}	17.2	X	356.04811	270.99741	202.73910	11.73048	0.2275683	0.23522426	2.5990500	20	—	—
473440 2015 XK	17.6	X	117.97339	249.19037	131.21100	6.16602	0.1920312	0.27052541	2.3677218	20	1 27.2	20.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
473441 2015 XD_2	17.7	X	33.59782	29.92095	238.60882	20.83861	0.0476158	0.36143877	1.9518490	20	8 22.9	20.3
473442 2015 XE_2	15.7	X	252.99943	22.72783	77.04396	10.79802	0.0571181	0.17268626	3.1937250	20	10 6.1	20.3
473443 2015 XR_2	16.9	X	33.85651	136.79322	277.17492	13.66820	0.1212203	0.23342136	2.6124159	20	—	—
473444 2015 XT_2	16.8	X	190.97819	216.55454	88.57809	7.79850	0.0881463	0.26497195	2.4006901	20	1 2.1	20.1
473445 2015 XP_3	16.6	X	323.45740	239.81679	267.78561	11.99366	0.2239195	0.22717075	2.6601192	20	—	—
473446 2015 XR_3	16.6	X	352.03623	186.04962	246.50836	8.40317	0.1307091	0.21529527	2.7570611	20	—	—
473447 2015 XK_4	15.6	X	219.13092	12.12816	107.77806	15.49530	0.0133176	0.17239653	3.1973024	20	9 26.9	20.4
473448 2015 XT_5	17.2	X	319.36281	44.29156	99.20886	14.72777	0.1078215	0.23774921	2.5806156	20	—	—
473449 2015 XV_9	17.5	X	26.66762	310.83429	111.43759	8.74434	0.1776845	0.23257530	2.6187477	20	—	—
473450 2015 XQ_{10}	15.5	X	2.21189	237.02611	105.91486	18.41603	0.1024733	0.17422876	3.1748471	20	10 15.8	19.9
473451 2015 XU_{12}	16.2	X	3.17093	235.30848	124.64637	16.71308	0.2237754	0.19496587	2.9455314	20	11 23.5	19.8
473452 2015 XG_{26}	17.2	X	12.10252	210.20929	185.33461	3.73257	0.1028065	0.21513508	2.7584295	20	—	—
473453 2015 XW_{30}	17.3	X	221.57586	187.10890	111.22504	7.22756	0.1348408	0.28881872	2.2666571	20	1 22.6	20.5
473454 2015 XQ_{35}	16.7	X	276.71338	305.88958	136.93607	5.85841	0.0980665	0.17977402	3.1092198	20	10 7.5	20.9
473455 2015 XP_{45}	17.9	X	2.33304	35.26402	94.85285	1.35690	0.1948594	0.25308158	2.4753067	20	—	—
473456 2015 XE_{46}	16.6	X	233.27440	52.16598	88.51844	4.97849	0.1744627	0.18236017	3.0797543	20	10 15.8	21.3
473457 2015 XV_{51}	15.4	X	158.28755	109.81228	97.27631	19.03368	0.0891184	0.18119137	3.0929842	20	11 1.9	20.5
473458 2015 XA_{55}	17.2	X	85.15965	58.91964	310.31770	10.64834	0.3834696	0.24405592	2.5359644	20	1 3.6	19.7
473459 2015 XF_{56}	17.5	X	304.89867	330.04798	172.27257	3.71788	0.0108503	0.23241608	2.6199436	20	—	—
473460 2015 XQ_{56}	16.3	X	264.52589	12.80407	101.94893	11.34401	0.1082514	0.18686506	3.0300559	20	11 2.6	20.5
473461 2015 XT_{56}	17.0	X	22.53970	230.76545	112.43818	9.37019	0.0976741	0.19060277	2.9903125	20	11 11.8	21.0
473462 2015 XA_{58}	16.1	X	93.92689	166.53304	84.38692	13.92108	0.0345580	0.17180938	3.2045826	20	10 10.3	20.9
473463 2015 XL_{59}	16.0	X	21.34692	221.99757	113.38273	9.96854	0.0902075	0.18318194	3.0705366	20	10 29.8	20.2
473464 2015 XM_{59}	16.1	X	230.72027	311.21864	212.52322	11.77085	0.1847185	0.18587095	3.0408503	20	11 7.3	20.6
473465 2015 XQ_{59}	16.2	X	298.93130	307.56881	106.43847	10.96216	0.0582846	0.17554979	3.1588997	20	10 9.3	20.6
473466 2015 XY_{59}	16.9	X	281.55513	350.71737	175.35554	6.79235	0.1695306	0.21889278	2.7267695	20	—	—
473467 2015 XU_{62}	17.6	X	340.84757	101.65156	127.04780	5.60020	0.0428193	0.30284828	2.1961027	20	3 30.2	19.9
473468 2015 XS_{64}	16.5	X	286.28857	210.57045	226.00308	14.11954	0.0278713	0.18026919	3.1035235	20	10 17.4	20.9
473469 2015 XC_{65}	17.9	X	4.02606	276.98813	135.84219	4.63084	0.0962605	0.21400788	2.7681070	20	—	—
473470 2015 XE_{66}	17.1	X	349.34479	12.28433	67.88034	10.56818	0.1872090	0.21659225	2.7460437	20	—	—
473471 2015 XF_{66}	16.6	X	306.89511	264.10123	244.32698	11.61534	0.1215716	0.22500484	2.6771630	20	—	—
473472 2015 XH_{66}	16.2	X	294.53158	179.71862	252.23594	10.38815	0.1172872	0.17940276	3.1135079	20	10 10.5	20.3
473473 2015 XR_{69}	17.0	X	281.48149	102.25569	89.99417	15.84219	0.0642860	0.24401036	2.5362800	20	—	—
473474 2015 XC_{70}	16.1	X	95.95373	301.65305	69.78351	13.88737	0.1993204	0.24069885	2.5594896	20	—	—
473475 2015 XG_{71}	17.3	X	195.71129	237.83919	44.61241	24.83597	0.2350539	0.27742135	2.3283207	20	—	—
473476 2015 XS_{72}	17.5	X	236.80400	106.07421	174.95018	6.85281	0.0910532	0.27651142	2.3334259	20	1 17.5	20.9
473477 2015 XG_{75}	17.0	X	291.67841	350.21790	75.56169	2.42512	0.2157190	0.17678227	3.1442006	20	9 18.9	20.7
473478 2015 XG_{76}	16.1	X	63.84088	41.72904	258.84202	6.69346	0.0611821	0.18097637	3.0954334	20	10 31.1	20.5
473479 2015 XE_{80}	17.7	X	2.74010	58.77419	92.14975	2.34013	0.1429490	0.26052200	2.4279502	20	1 5.8	20.0
473480 2015 XJ_{81}	16.5	X	306.79411	244.97734	179.88140	10.95876	0.0373877	0.18221402	3.0814008	20	11 2.0	20.7
473481 2015 XF_{82}	15.9	X	260.39211	323.18886	142.56946	14.94868	0.1542178	0.17296085	3.1903439	20	10 7.7	20.5
473482 2015 XN_{82}	17.6	X	333.43237	5.18635	132.29775	15.27828	0.1273398	0.23325605	2.6136501	20	—	—
473483 2015 XA_{83}	17.1	X	353.52720	280.72487	157.37493	10.14910	0.2152298	0.21620763	2.7492994	20	—	—
473484 2015 XM_{84}	16.2	X	263.33789	251.39824	210.14249	16.96686	0.0996879	0.17021553	3.2245560	20	10 7.6	20.8
473485 2015 XN_{85}	16.3	X	298.08146	253.76138	171.72511	12.22768	0.0640011	0.17610332	3.1522768	20	10 18.8	20.5
473486 2015 XV_{86}	17.6	X	125.16428	113.98233	81.34889	23.46333	0.0645805	0.34741078	2.0040437	20	10 12.5	20.7
473487 2015 XW_{86}	16.6	X	83.16137	344.05344	69.57186	15.91806	0.0678489	0.24020507	2.5629961	20	1 10.4	19.9
473488 2015 XQ_{87}	16.4	X	273.51261	69.97685	52.10544	17.09959	0.2019608	0.17826719	3.1267160	20	11 5.4	20.5
473489 2015 XA_{90}	17.9	X	34.73947	278.90559	239.32745	5.47801	0.1819782	0.28342153	2.2953425	20	3 15.9	19.6
473490 2015 XQ_{94}	16.7	X	342.18430	289.04471	99.12098	11.47054	0.1123208	0.19094249	2.9867646	20	11 10.5	20.4
473491 2015 XP_{97}	16.7	X	318.20541	171.62711	228.84719	12.89811	0.0314113	0.17984002	3.1084590	20	10 13.3	21.0
473492 2015 XF_{102}	15.8	X	6.18329	257.25799	90.25812	11.40779	0.0559569	0.17787308	3.1313328	20	10 20.3	20.1
473493 2015 XU_{103}	17.8	X	77.25396	300.48789	142.21371	3.00493	0.2100659	0.27125534	2.3634723	20	2 25.7	20.0
473494 2015 XV_{104}	17.2	X	7.02620	334.20791	137.87770	5.05722	0.0979045	0.24449301	2.5329410	20	—	—
473495 2015 XX_{106}	17.1	X	53.99405	243.52855	134.55388	6.92431	0.0281216	0.22345690	2.6895123	20	—	—
473496 2015 XU_{113}	16.5	X	213.41495	21.52498	222.45828	13.43213	0.1268320	0.23702115	2.5858976	20	—	—
473497 2015 XJ_{116}	16.5	X	351.04148	181.72270	198.35166	9.79547	0.1210988	0.18928872	3.0041358	20	11 11.6	20.1
473498 2015 XP_{122}	16.6	X	284.23380	222.38792	209.69472	18.08360	0.1285870	0.17094775	3.2153416	20	9 23.2	21.0
473499 2015 XJ_{123}	17.5	X	0.67907	263.00001	187.78467	14.20360	0.0658389	0.22576617	2.6711409	20	—	—
473500 2015 XA_{129}	16.4	X	290.13756	269.18193	231.11127	15.20311	0.3936117	0.18288486	3.0738609	20	11 24.8	19.5
473501 2015 XL_{131}	16.8	X	331.22153	43.14885	26.04390	10.32574	0.1491188	0.18663043	3.0325950	20	12 9.7	20.3
473502 2015 XT_{131}	16.6	X	174.96541	324.35956	262.87057	8.55113	0.0449517	0.20100981	2.8861876	20	12 10.2	20.7
473503 2015 XE_{132}	17.8	X	12.99917	287.16459	256.90272	4.73597	0.0820584	0.29159280	2.2522582	20	3 9.3	20.1
473504 2015 XL_{134}	17.2	X	79.08068	237.44616	76.75232	3.10886	0.0557530	0.20315353	2.8658479	20	12 9.8	21.2
473505 2015 XY_{134}	17.4	X	34.27610	322.38401	55.69311	5.54294	0.1055366	0.21615522	2.7497438	20	—	—
473506 2015 XC_{136}	16.1	X	258.74494	213.54233	239.87876	3.85317	0.1093142	0.17210231	3.2009452	20	9 20.3	20.6
473507 2015 XP_{136}	17.9	X	166.15990	285.76314	86.01438	2.65277	0.1490274	0.29536300	2.2330511	20	3 2.6	21.0
473508 2015 XR_{136}	17.0	X	345.64981	348.71730	77.85585	6.12878	0.0306396	0.21134844	2.7912797	20	12 30.9	20.6
473509 2015 XL_{137}	17.5	X	45.56822	333.77509	65.70721	2.88106	0.1102658	0.23434715	2.6055311	20	—	—
473510 2015 XL_{138}	16.3	X	49.67409	209.78858	78.00143	4.36045	0.1979726	0.17753175	3.1353451	20	10 20.1	20.6
473511 2015 XJ_{139}	18.1	X	7.94964	54.69990	80.80693	3.75256	0.1279838	0.25615596	2.4554612	20	—	—
473512 2015 XZ_{139}	17.2	X	49.67819	120.82917	232.08430	3.49691	0.1322167	0.21188032	2.7866065	20	—	—
473513 2015 XD_{140}	17.6	X	356.29681	82.98731	77.26042	8.01580	0.0304713	0.27012767	2.3700454	20	1 20.5	20.5
473514 2015 XW_{141}	16.6	X	333.28854	292.97003	73.71080	4.07578	0.0763710	0.17013539	3.2255685	20	9 22.9	20.7
473515 2015 XE_{144}	15.9	X	340.61546	300.32376	66.14925	13.66990	0.1196703	0.17741513	3.1367189	20	10 10.3	19.9
473516 2015 XO_{144}	16.7	X	328.69043	133.34996	250.48510	8.61184	0.1079591	0.17861845	3.1226155	20	10 2.8	20.7
473517 2015 XY_{144}	16.4	X	318.67022	186.12179	219.50989	1.07624	0.0773169	0.18314708	3.0709262	20	10 21.1	20.2
473518 2015 XN_{146}	17.9	X	178.07263	251.30163	110.36022	4.27159	0.0284917	0.28840960	2.2688001	20	2 23.8	20.6
473519 2015 XU_{146}	16.6	X	359.13218	300.29337	89.95386	10.25086	0.0471741	0.19740943	2.9211742	20	12 2.1	20.4
473520 2015 XN_{147}	18.0	X	88.51461	18.52340	72.72772	2.07357	0.1358856	0.28133974	2.3066515	20	3 14.4	20.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
473521 2015 XP_{147}	17.7	X	353.42057	68.29633	80.82691	2.26028	0.1232797	0.25317186	2.4747183	20	—	—
473522 2015 XW_{147}	17.7	X	282.42768	197.29163	253.39366	2.30689	0.1777912	0.17979430	3.1089861	20	10 10.8	21.6
473523 2015 XZ_{147}	16.7	X	248.03161	62.82673	68.18357	1.97688	0.1535599	0.17796681	3.1302333	20	10 20.7	21.1
473524 2015 XC_{148}	17.1	X	324.83768	153.09263	259.50956	6.77073	0.0987598	0.18800096	3.0178386	20	11 7.9	20.7
473525 2015 XO_{148}	17.3	X	229.37118	39.62410	247.70749	5.93531	0.0993444	0.27424949	2.3462386	20	1 17.5	20.8
473526 2015 XG_{152}	16.5	X	85.83183	12.64509	330.01936	11.14508	0.0792830	0.22944170	2.6425375	20	—	—
473527 2015 XA_{161}	15.9	X	236.25963	88.26598	73.32061	12.16663	0.2507870	0.18492030	3.0512631	20	11 5.1	20.7
473528 2015 XW_{165}	16.9	X	337.14801	278.79572	168.80434	13.08379	0.2418526	0.20957331	2.8070193	20	—	—
473529 2015 XO_{166}	16.5	X	247.18739	271.25096	228.87135	8.32500	0.0598858	0.18962795	3.0005519	20	11 14.5	20.7
473530 2015 XO_{167}	15.4	X	261.06850	249.06508	260.66092	15.09186	0.0931662	0.17742404	3.1366139	20	12 6.2	19.8
473531 2015 XU_{167}	16.7	X	343.16538	295.31406	216.14527	10.12535	0.0628412	0.23286097	2.6166055	20	—	—
473532 2015 XC_{168}	18.0	X	208.36644	215.85627	257.94370	17.45262	0.0887733	0.34587052	2.0099890	20	8 31.8	20.9
473533 2015 XK_{170}	16.3	X	292.03386	13.48879	75.51985	8.47079	0.0143625	0.19115402	2.9845608	20	11 15.6	20.5
473534 2015 XP_{170}	17.4	X	30.18125	97.45716	342.73888	12.08350	0.2579783	0.22795394	2.6540228	20	—	—
473535 2015 XS_{170}	17.2	X	0.28656	83.34584	57.72608	13.68027	0.2170778	0.23164092	2.6257852	20	—	—
473536 2015 XZ_{170}	16.2	X	315.44176	11.70672	36.26838	12.39213	0.3037399	0.18817974	3.0159269	20	10 4.8	18.8
473537 2015 XP_{171}	17.0	X	75.78380	139.85595	252.95105	1.39645	0.0759376	0.24525702	2.5276780	20	—	—
473538 2015 XR_{171}	16.4	X	14.39244	308.86599	76.49760	12.48811	0.0879055	0.20424477	2.8556310	20	12 21.9	20.1
473539 2015 XC_{172}	16.6	X	73.45909	259.91141	87.42853	13.10068	0.1967114	0.22458792	2.6804752	20	—	—
473540 2015 XN_{173}	15.8	X	167.14957	108.57033	106.56460	13.06184	0.0737429	0.19172855	2.9785955	20	11 17.9	20.5
473541 2015 XJ_{185}	17.5	X	47.56884	325.25221	145.39565	7.25200	0.0795426	0.26862748	2.3788611	20	1 27.6	20.0
473542 2015 XV_{188}	17.1	X	44.69857	328.49898	105.24109	8.96106	0.1732616	0.24476316	2.5310769	20	—	—
473543 2015 XO_{191}	16.7	X	301.05691	79.51153	78.99720	13.90065	0.1196940	0.22951979	2.6419380	20	—	—
473544 2015 XB_{192}	17.7	X	153.35357	220.61190	114.91802	2.18652	0.2041149	0.26999563	2.3708181	20	1 10.5	21.3
473545 2015 XO_{193}	17.6	X	349.03905	18.89495	111.63865	3.24905	0.1158682	0.24402139	2.5362036	20	—	—
473546 2015 XG_{195}	16.7	X	182.01215	163.21481	82.60069	9.37652	0.0375789	0.21344812	2.7729444	20	—	—
473547 2015 XX_{195}	18.6	X	74.17260	0.64480	100.31859	1.28242	0.1768482	0.27578009	2.3375493	20	3 12.2	20.7
473548 2015 XP_{196}	15.9	X	190.98145	6.35607	253.01739	25.31729	0.0864617	0.22946535	2.6423559	20	—	—
473549 2015 XS_{196}	15.6	X	211.15797	284.06978	249.42512	9.00819	0.0524673	0.18547340	3.0451939	20	11 11.7	20.0
473550 2015 XB_{197}	17.1	X	117.45764	245.72139	64.62123	5.23680	0.0444221	0.21790686	2.7349882	20	—	—
473551 2015 XL_{197}	17.3	X	40.72548	290.84173	82.20979	8.42771	0.2388384	0.21793869	2.7347218	20	—	—
473552 2015 XL_{201}	16.1	X	304.00834	347.17803	69.42767	12.71220	0.0426248	0.18105384	3.0945504	20	10 21.4	20.4
473553 2015 XQ_{201}	16.0	X	25.65085	107.51198	237.92575	9.97339	0.0973258	0.19338311	2.9615815	20	11 15.9	19.9
473554 2015 XH_{202}	16.9	X	359.35899	298.37059	96.96903	3.12641	0.0689487	0.20316560	2.8657344	20	12 11.5	20.5
473555 2015 XP_{203}	17.3	X	58.71824	265.71641	93.71077	4.36312	0.1192023	0.22190556	2.7020326	20	—	—
473556 2015 XU_{203}	17.2	X	273.66916	353.88123	88.01103	6.48592	0.1328964	0.17513556	3.1638788	20	9 27.6	21.6
473557 2015 XF_{206}	16.3	X	19.33972	281.87871	60.81301	10.60092	0.0986785	0.18620281	3.0372362	20	11 4.3	20.2
473558 2015 XJ_{207}	17.9	X	39.15334	174.50420	284.31291	1.75321	0.1661979	0.25606665	2.4560321	20	—	—
473559 2015 XC_{210}	16.9	X	54.55309	105.05905	249.76115	4.78405	0.0488908	0.20975123	2.8054317	20	12 30.9	20.8
473560 2015 XQ_{211}	18.0	X	282.80938	201.90659	69.96768	3.17045	0.1445237	0.29820639	2.2188337	20	2 20.5	21.0
473561 2015 XN_{212}	17.8	X	31.52596	40.52647	78.42821	5.86293	0.1331239	0.26101593	2.4248863	20	1 14.7	20.0
473562 2015 XL_{213}	16.0	X	112.73966	357.88833	259.64629	9.67892	0.0097226	0.18202730	3.0835076	20	10 30.1	20.4
473563 2015 XO_{214}	16.3	X	137.94872	26.22528	255.43033	17.83385	0.0701504	0.21392251	2.7688434	20	—	—
473564 2015 XE_{216}	16.2	X	119.77911	91.86163	248.28484	9.15043	0.0254725	0.23878062	2.5731790	20	—	—
473565 2015 XP_{216}	16.9	X	288.00047	299.84783	125.72638	2.49425	0.1226269	0.17410469	3.1763553	20	9 25.8	21.0
473566 2015 XA_{217}	15.8	X	202.51920	83.00991	76.45215	10.20299	0.0425427	0.17470896	3.1690269	20	10 20.2	20.5
473567 2015 XK_{217}	17.3	X	212.13091	236.27829	83.40176	7.44399	0.1568497	0.29133417	2.2535910	20	2 11.2	20.8
473568 2015 XD_{219}	17.1	X	33.62660	282.56270	105.94645	3.72511	0.1111244	0.22111817	2.7084434	20	—	—
473569 2015 XG_{220}	17.3	X	54.02286	129.35186	233.44065	5.47900	0.0050505	0.21302447	2.7766197	20	—	—
473570 2015 XG_{221}	17.4	X	228.17235	118.98510	92.76684	5.65961	0.0137708	0.22551844	2.6730968	20	—	—
473571 2015 XW_{222}	17.1	X	139.14859	257.77094	91.83693	7.35861	0.1208136	0.26300271	2.4126588	20	1 4.3	20.2
473572 2015 XC_{223}	15.9	X	309.46387	172.73340	237.12101	8.50271	0.0657039	0.17781673	3.1319944	20	10 10.5	20.0
473573 2015 XC_{224}	16.2	X	15.97266	243.15612	85.76608	9.83664	0.1227865	0.17522663	3.1627824	20	10 16.5	20.3
473574 2015 XP_{226}	16.8	X	332.02613	275.94766	143.13235	2.15147	0.1516618	0.19709681	2.9242623	20	12 3.4	20.0
473575 2015 XL_{228}	16.8	X	29.44390	262.43280	84.87759	9.99033	0.0659016	0.19008680	2.9957213	20	11 20.2	20.8
473576 2015 XS_{228}	17.3	X	301.91446	45.56532	95.45891	4.59949	0.0375318	0.22301459	2.6930673	20	—	—
473577 2015 XR_{229}	16.2	X	44.90305	80.81895	229.30847	8.56836	0.0790983	0.17710962	3.1403251	20	10 21.6	20.5
473578 2015 XD_{230}	16.8	X	92.88475	228.00333	82.88218	14.03583	0.2449177	0.21752647	2.7381756	20	—	—
473579 2015 XD_{231}	17.4	X	356.70444	23.85214	97.90088	7.69505	0.1044101	0.24178579	2.5518131	20	—	—
473580 2015 XW_{233}	17.1	X	349.75775	310.56316	97.13392	3.31223	0.0865163	0.19984351	2.8974059	20	12 14.1	20.7
473581 2015 XS_{234}	18.2	X	64.20008	44.34823	96.24054	4.24973	0.0584541	0.29528863	2.2334260	20	4 4.8	20.5
473582 2015 XZ_{234}	16.8	X	250.89470	22.70341	166.94441	2.38145	0.0320142	0.22075790	2.7113893	20	—	—
473583 2015 XE_{235}	16.9	X	216.72162	305.46344	237.01124	5.00848	0.0324405	0.19532289	2.9419410	20	12 4.4	21.1
473584 2015 XQ_{236}	16.8	X	274.97294	180.48833	250.67376	4.21491	0.1050821	0.16746134	3.2598154	20	9 12.9	21.3
473585 2015 XT_{237}	15.5	X	261.48734	167.96286	257.51219	14.10911	0.0828948	0.15584607	3.4198376	20	8 17.0	20.7
473586 2015 XU_{237}	16.3	X	124.81659	156.51898	83.38879	4.01534	0.0626511	0.17589043	3.1548199	20	10 28.9	20.9
473587 2015 XK_{238}	17.6	X	3.07221	230.60609	162.37628	2.39643	0.0758513	0.20468478	2.8515371	20	12 14.9	21.3
473588 2015 XO_{238}	17.4	X	312.30500	26.39927	117.65526	2.36897	0.0692177	0.23303893	2.6152732	20	—	—
473589 2015 XV_{242}	17.0	X	282.70091	344.67666	134.74574	2.76675	0.0289136	0.19921586	2.9034885	20	12 10.7	20.8
473590 2015 XR_{243}	17.5	X	324.49768	318.33692	122.72634	3.01946	0.0425011	0.20119082	2.8844562	20	12 18.4	21.1
473591 2015 XB_{245}	16.0	X	273.49641	269.42950	234.91411	14.23575	0.2476151	0.17640378	3.1486965	20	11 24.2	20.0
473592 2015 XO_{245}	15.9	X	304.58203	218.13017	241.44733	12.87595	0.1243268	0.17587456	3.1550097	20	12 2.4	19.7
473593 2015 XQ_{245}	16.6	X	9.79734	213.11037	249.90802	14.23276	0.0757711	0.21647155	2.7470643	20	—	—
473594 2015 XR_{245}	16.5	X	314.79914	177.92431	265.04103	16.62575	0.1838473	0.17499782	3.1655386	20	11 23.7	20.1
473595 2015 XU_{245}	16.7	X	14.03275	305.58160	219.09816	6.24475	0.0710688	0.25294576	2.4761928	20	2 18.3	19.7
473596 2015 XA_{246}	16.6	X	40.14881	299.19487	148.35110	13.50570	0.1406221	0.22728658	2.6592154	20	—	—
473597 2015 XH_{257}	15.5	X	71.12203	44.52066	246.92257	17.04430	0.1624555	0.18570563	3.0426547	20	11 12.0	20.1
473598 2015 XD_{258}	17.6	X	49.90722	64.49860	316.25517	1.43253	0.0629722	0.22081801	2.7108973	20	—	—
473599 2015 XK_{258}	15.7	X	80.45951	20.69629	258.78022	15.05622	0.0911354	0.17654807	3.1469805	20	10 26.2	20.6
473600 2015 XU_{258}	17.0	X	319.57987	24.25206	54.39318	2.89081	0.0497728	0.19816868	2.9137081	20	12 7.5	20.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
473601 2015 XJ_{259}	17.6	X	337.31085	115.52926	21.11118	3.51765	0.1563694	0.23285224	2.6166709	20	—	—
473602 2015 XW_{260}	15.7	X	261.32284	224.96792	255.13518	13.69706	0.0986022	0.15472098	3.4363963	20	10 23.2	20.7
473603 2015 XY_{262}	16.6	X	61.28803	318.51641	81.92537	18.65783	0.1811053	0.23454938	2.6040332	20	—	—
473604 2015 XX_{264}	16.0	X	297.85005	162.72174	262.71099	8.65371	0.0367837	0.18056089	3.1001801	20	10 16.2	20.4
473605 2015 XZ_{264}	15.5	X	38.54283	53.88650	264.07022	9.22618	0.0394493	0.17877767	3.1207612	20	10 15.6	20.0
473606 2015 XT_{265}	17.3	X	245.33853	356.15126	279.33893	4.97296	0.1145076	0.27864152	2.3215186	20	1 18.7	20.7
473607 2015 XB_{266}	16.6	X	272.59292	41.99726	36.35288	4.03929	0.2055975	0.17101091	3.2145499	20	9 8.4	20.9
473608 2015 XV_{268}	17.6	X	307.38287	64.00690	66.72553	3.22185	0.0287659	0.22177645	2.7030812	20	—	—
473609 2015 XB_{269}	16.9	X	0.90287	110.64482	282.33375	0.82269	0.0622357	0.19916257	2.9040064	20	12 8.7	20.5
473610 2015 XK_{273}	16.2	X	53.01601	63.93480	249.79042	8.82396	0.0948950	0.18502303	3.0501335	20	11 9.1	20.4
473611 2015 XX_{273}	17.6	X	71.48517	59.10713	100.66603	5.43758	0.0622237	0.31144624	2.1554965	20	5 14.7	19.8
473612 2015 XS_{274}	16.7	X	352.64286	138.01042	211.72735	1.50999	0.0901841	0.16990515	3.2284819	20	9 28.1	20.6
473613 2015 XT_{274}	16.2	X	109.31773	163.87442	87.05881	6.81134	0.1308940	0.17338372	3.1851545	20	10 31.4	21.2
473614 2015 XA_{276}	17.2	X	284.71111	329.49552	117.85737	2.18489	0.1600629	0.18408666	3.0604679	20	10 15.6	21.0
473615 2015 XP_{276}	15.7	X	357.02127	89.20494	261.58734	11.54099	0.0536920	0.17343645	3.1845089	20	9 29.5	20.1
473616 2015 XT_{277}	15.8	X	30.38225	82.40004	241.23570	8.33551	0.0777494	0.17670162	3.1451573	20	10 18.1	20.0
473617 2015 XV_{278}	18.1	X	60.39745	261.12906	163.36274	1.56708	0.1639222	0.25587941	2.4572301	20	—	—
473618 2015 XD_{279}	17.4	X	294.53353	271.03270	153.27232	1.40664	0.1735858	0.18043242	3.1016515	20	9 27.6	21.2
473619 2015 XO_{279}	14.3	X	217.56958	111.41772	225.40009	4.81849	0.0550797	0.08317035	5.1978497	20	3 24.9	21.4
473620 2015 XZ_{284}	17.6	X	72.08474	283.41744	87.01486	2.79727	0.0717530	0.23169624	2.6253672	20	—	—
473621 2015 XA_{287}	16.2	X	321.42757	344.97333	77.70732	8.77067	0.0920349	0.19201335	2.9756495	20	11 19.2	19.8
473622 2015 XJ_{289}	18.2	X	44.02609	321.71158	142.78446	1.60720	0.1487673	0.26089191	2.4256547	20	1 17.5	20.3
473623 2015 XA_{292}	18.0	X	241.55019	69.70592	215.44354	1.93822	0.0238942	0.27786858	2.3258217	20	2 1.3	20.8
473624 2015 XL_{293}	17.0	X	257.61235	96.69652	42.37976	1.54899	0.0934030	0.19131269	2.9829103	20	11 21.8	21.0
473625 2015 XO_{293}	18.1	X	87.78244	30.22783	17.60836	0.87471	0.1608793	0.26191164	2.4193545	20	1 18.1	20.6
473626 2015 XU_{297}	17.5	X	332.56580	59.18331	64.28773	2.91115	0.1112076	0.22873797	2.6479547	20	—	—
473627 2015 XT_{298}	17.6	X	31.91080	240.92644	249.57034	6.66492	0.0641040	0.27241553	2.3567570	20	1 27.3	20.3
473628 2015 XS_{306}	16.0	X	109.53837	174.34542	60.93510	5.97316	0.0319162	0.16810950	3.2514310	20	10 3.9	20.7
473629 2015 XC_{308}	16.8	X	313.29542	252.98268	210.73359	15.71137	0.1640609	0.18506663	3.0496544	20	12 22.1	20.5
473630 2015 XX_{308}	16.3	X	322.09798	312.46639	69.97793	6.49178	0.1278941	0.17861606	3.1226433	20	9 26.4	20.1
473631 2015 XC_{309}	15.8	X	254.77846	35.56414	71.13207	13.67263	0.0518756	0.17985837	3.1082476	20	10 19.1	20.3
473632 2015 XN_{309}	16.5	X	278.22425	203.68584	259.21702	15.52738	0.1827073	0.18225254	3.0809665	20	10 15.9	20.8
473633 2015 XK_{310}	16.4	X	69.69775	260.13941	64.22837	4.54219	0.0437270	0.19689060	2.9263037	20	12 8.2	20.4
473634 2015 XL_{311}	17.0	X	95.51695	239.32471	125.07145	3.21879	0.1294186	0.24278270	2.5448228	20	—	—
473635 2015 XX_{312}	16.6	X	122.31204	222.17771	81.20037	17.45397	0.0674799	0.21615519	2.7497440	20	—	—
473636 2015 XP_{313}	15.8	X	8.66534	266.00314	83.14246	12.16511	0.0870326	0.17780615	3.1321185	20	10 28.2	20.0
473637 2015 XC_{314}	17.5	X	153.87885	273.42440	74.60982	6.58487	0.1762912	0.27119684	2.3638122	20	1 24.9	21.0
473638 2015 XR_{314}	17.2	X	81.65799	70.17262	261.15527	10.53720	0.1194778	0.21325344	2.7746317	20	—	—
473639 2015 XN_{315}	18.0	X	83.37730	118.47402	309.89218	0.72565	0.1645304	0.26655061	2.3912020	20	2 8.2	20.5
473640 2015 XC_{316}	17.3	X	86.62594	87.19404	279.33721	2.30653	0.1203463	0.23624852	2.5915325	20	—	—
473641 2015 XO_{316}	16.9	X	67.07344	277.81410	87.75618	7.07745	0.0553358	0.22215258	2.7000292	20	—	—
473642 2015 XS_{318}	17.1	X	23.27251	167.04994	230.46749	3.82250	0.0759887	0.21376675	2.7701882	20	—	—
473643 2015 XD_{321}	15.4	X	180.29351	112.06822	86.54152	15.00047	0.0723243	0.18020448	3.1042665	20	11 10.7	20.2
473644 2015 XA_{322}	17.4	X	241.91266	44.97710	100.73137	1.83687	0.1066001	0.18286916	3.0740369	20	11 7.5	21.6
473645 2015 XQ_{322}	16.6	X	87.81669	261.94338	86.83605	7.34531	0.0740453	0.22442945	2.6817368	20	—	—
473646 2015 XU_{325}	15.9	X	159.84365	192.87350	89.91156	16.68217	0.1108159	0.22669016	2.6638776	20	—	—
473647 2015 XL_{327}	16.7	X	37.59699	228.74886	102.86537	2.96962	0.0671658	0.18245502	3.0786868	20	11 9.1	20.8
473648 2015 XC_{330}	16.4	X	57.21152	20.76496	312.17904	1.09610	0.0901839	0.19668694	2.9283234	20	12 10.1	20.4
473649 2015 XN_{332}	16.6	X	336.07224	130.74756	265.83753	4.44565	0.1353282	0.18532695	3.0467980	20	11 5.1	20.2
473650 2015 XS_{332}	16.3	X	25.49681	270.37215	78.89007	8.93242	0.2273152	0.19564402	2.9387209	20	12 10.2	20.0
473651 2015 XL_{334}	17.7	X	57.41056	314.48454	99.61546	4.92008	0.1619668	0.24336287	2.5407768	20	—	—
473652 2015 XV_{334}	16.0	X	18.78141	257.31097	96.01334	12.24725	0.1703881	0.19077883	2.9884725	20	11 28.1	19.8
473653 2015 XA_{335}	16.2	X	240.17679	252.26975	239.96232	8.28907	0.1073256	0.17281604	3.1921259	20	10 15.8	21.0
473654 2015 XD_{335}	17.2	X	161.62424	143.67421	216.55031	5.27224	0.0729293	0.27483277	2.3429177	20	2 3.9	20.4
473655 2015 XF_{337}	18.2	X	145.04277	162.02672	203.03145	0.49824	0.1947072	0.27535849	2.3399347	20	2 6.3	21.6
473656 2015 XW_{337}	16.6	X	114.97477	213.67537	82.32350	7.76541	0.0388991	0.20246577	2.8723343	20	12 26.6	20.8
473657 2015 XZ_{337}	17.8	X	54.06962	318.75347	80.57543	3.60579	0.0640811	0.23002732	2.6380505	20	—	—
473658 2015 XB_{342}	17.0	X	261.48661	108.57631	86.23894	13.99696	0.1608170	0.22041364	2.7142118	20	—	—
473659 2015 XM_{343}	16.0	X	342.11374	144.14152	244.42476	9.77981	0.0777210	0.18283581	3.0744107	20	11 2.1	20.0
473660 2015 XP_{343}	16.5	X	302.71523	187.76228	234.20047	8.51459	0.0729435	0.17648372	3.1477455	20	10 15.9	20.7
473661 2015 XK_{344}	18.3	X	198.70665	114.08450	219.00887	2.70556	0.1415987	0.28629322	2.2799676	20	2 12.3	21.6
473662 2015 XX_{344}	17.4	X	198.57828	40.37082	266.95045	5.67843	0.2539192	0.27588405	2.3369620	20	1 15.9	21.4
473663 2015 XJ_{347}	16.4	X	323.53875	261.31005	252.75053	12.47898	0.1327263	0.23258624	2.6186656	20	—	—
473664 2015 XS_{347}	17.2	X	210.38333	59.15198	125.18206	2.88473	0.0956440	0.18326822	3.0695728	20	11 20.1	21.7
473665 2015 XT_{347}	17.2	X	27.42449	244.97342	133.54192	2.93857	0.0790951	0.20212466	2.8755649	20	12 29.1	20.9
473666 2015 XA_{348}	17.9	X	71.06851	359.01338	90.84247	3.59450	0.1506745	0.26760406	2.3849224	20	2 17.3	20.2
473667 2015 XE_{348}	15.8	X	229.26682	260.86796	265.90009	14.06000	0.1702008	0.18005074	3.1060333	20	11 7.3	20.6
473668 2015 XA_{350}	15.9	X	257.55630	220.14627	258.25402	8.41881	0.0777928	0.18574283	3.0422484	20	10 26.1	20.3
473669 2015 XD_{350}	17.7	X	67.88048	163.02911	257.69969	6.48728	0.1160833	0.25867796	2.4394753	20	—	—
473670 2015 XP_{350}	15.6	X	111.76184	196.53244	65.88767	11.90640	0.0711493	0.18348097	3.0671995	20	11 12.8	20.2
473671 2015 XB_{351}	17.5	X	77.51605	156.53895	291.87765	3.96458	0.0776592	0.27540138	2.3396917	20	2 11.6	19.9
473672 2015 XH_{353}	17.0	X	343.66877	0.16154	23.77990	1.23938	0.2564409	0.18962605	3.0005720	20	11 11.7	19.6
473673 2015 XB_{355}	15.9	X	281.82636	173.50641	254.78448	7.71319	0.1361865	0.17418092	3.1754285	20	9 13.3	20.3
473674 2015 XE_{355}	16.5	X	295.91914	162.42943	274.34265	4.53370	0.1154725	0.18578295	3.0418104	20	10 22.2	20.3
473675 2015 XT_{355}	17.4	X	11.63766	146.25902	312.19308	2.46665	0.1118942	0.23802887	2.5785940	20	—	—
473676 2015 XT_{356}	16.7	X	214.96554	70.83833	120.95705	8.73308	0.0610996	0.21103093	2.7940787	20	12 14.2	20.7
473677 2015 XZ_{364}	16.6	X	178.97581	152.23989	63.02369	10.55154	0.0251566	0.18899945	3.0072003	20	11 28.9	20.8
473678 2015 XH_{368}	16.9	X	308.72777	172.33267	274.30138	9.06730	0.0770366	0.19195364	2.9762665	20	11 29.3	20.6
473679 2015 XY_{369}	17.3	X	331.83066	138.18043	280.51376	5.26353	0.2336902	0.19619662	2.9332001	20	12 4.8	20.0
473680 2015 XH_{370}	17.2	X	357.34545	193.42393	272.32940	9.71367	0.0939861	0.23178631	2.6246870	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
473681 2015 XM_{372}	16.7	X	324.58518	131.58111	281.27998	10.04749	0.1952031	0.18865470	3.0108627	20	11 4.0	20.0
473682 2015 XZ_{373}	15.8	X	6.45184	88.57678	270.45654	9.24979	0.1113532	0.18430808	3.0580163	20	11 2.8	19.8
473683 2015 XU_{374}	17.4	X	53.01067	60.69186	350.59175	2.78366	0.2073803	0.24059904	2.5601974	20	—	—
473684 2015 XU_{379}	13.8	X	260.36366	249.74019	87.20151	9.46987	0.0427218	0.08190167	5.2513893	20	5 13.5	20.8
473685 2015 XZ_{379}	15.8	X	325.16228	285.82408	130.74177	23.99489	0.1571274	0.17768805	3.1335063	20	11 19.7	19.9
473686 2015 XG_{380}	16.1	X	324.60151	284.43442	99.10651	10.27490	0.0761685	0.17349728	3.1837645	20	10 5.5	20.4
473687 2015 XL_{380}	17.1	X	41.14055	193.91273	240.63680	6.19894	0.1726582	0.23472169	2.6027587	20	—	—
473688 2015 XM_{380}	15.6	X	348.15253	256.77734	143.17964	11.25611	0.0974554	0.17812776	3.1283475	20	11 29.2	19.7
473689 2015 XP_{380}	17.5	X	266.06025	324.06581	117.13740	24.36971	0.0692771	0.36591710	1.9358911	20	11 14.1	19.9
473690 2015 XG_{381}	15.8	X	35.33672	175.29972	150.43046	22.04731	0.0444852	0.17579701	3.1559375	20	10 30.9	20.6
473691 2015 XY_{382}	15.5	X	275.87515	198.25949	284.05561	16.69751	0.1618540	0.18019152	3.1044153	20	11 10.2	19.8
473692 2015 XN_{384}	16.1	X	305.36447	347.65208	97.71983	10.37521	0.1934143	0.18297605	3.0728396	20	11 14.7	19.6
473693 2015 YW	16.0	X	97.43822	325.98778	21.49317	13.54325	0.1693657	0.24056911	2.5604097	20	—	—
473694 2015 YU_{3}	18.5	X	138.75855	235.39621	201.69219	3.74421	0.1245808	0.30379269	2.1915489	20	4 25.6	21.3
473695 2015 YL_{4}	17.0	X	55.70838	256.87234	272.63508	20.69313	0.2855083	0.27275329	2.3548110	20	6 12.3	19.4
473696 2015 YA_{5}	17.1	X	44.87287	201.64250	271.54676	8.33836	0.1631578	0.26445273	2.4038314	20	1 29.8	19.3
473697 2015 YM_{6}	16.8	X	40.91938	349.88194	132.23074	7.65115	0.1049552	0.25786678	2.4445886	20	2 5.7	19.2
473698 2015 YP_{6}	15.6	X	329.29414	161.62906	271.50483	10.04468	0.0579064	0.18700695	3.0285231	20	12 11.4	19.5
473699 2015 YR_{6}	17.0	X	358.48403	274.29385	226.17472	3.40711	0.1036825	0.23850563	2.5751565	20	—	—
473700 2015 YS_{6}	15.5	X	32.78862	90.09524	277.17095	16.90515	0.0574542	0.18365795	3.0652288	20	12 14.9	19.8
473701 2015 YT_{6}	15.8	X	248.54832	45.32490	113.23173	18.43380	0.0969898	0.17980561	3.1088557	20	12 4.9	20.4
473702 2015 YL_{8}	18.3	X	124.02653	243.44109	184.84075	1.64651	0.1908220	0.28408922	2.2917446	20	4 5.2	21.4
473703 2015 YP_{8}	15.8	X	312.32337	302.66118	111.92198	10.60639	0.1813787	0.17075497	3.2177612	20	10 17.7	19.7
473704 2015 YQ_{8}	16.1	X	323.38057	275.66936	121.17892	15.83414	0.2880537	0.17037866	3.2224975	20	10 8.9	19.4
473705 2015 YW_{8}	16.4	X	267.09376	249.03634	272.43006	12.91391	0.2532108	0.18345724	3.0674640	20	12 7.1	20.2
473706 2015 YX_{8}	16.9	X	308.27248	57.10069	114.83240	5.44708	0.0829513	0.22171467	2.7035834	20	—	—
473707 2015 YK_{9}	16.7	X	90.26198	293.40988	111.84603	15.42666	0.0935531	0.24227999	2.5483419	20	1 12.2	19.5
473708 2015 YA_{11}	16.1	X	37.27487	121.82977	258.19869	10.89821	0.0689652	0.19670155	2.9281784	20	—	—
473709 2015 YC_{11}	17.3	X	5.66827	301.72673	232.65474	2.65823	0.1168075	0.26153037	2.4217054	20	2 15.2	19.7
473710 2015 YD_{16}	16.2	X	309.65850	42.74727	19.99764	15.53506	0.2063924	0.17209686	3.2010128	20	10 15.2	19.8
473711 2015 YR_{16}	16.9	X	204.18176	240.94161	54.83340	12.54748	0.0367241	0.24126341	2.5554953	20	1 7.5	20.6
473712 2015 YG_{17}	17.4	X	349.49165	165.28792	351.60091	13.70041	0.1822948	0.23418920	2.6067025	20	—	—
473713 2015 YF_{18}	18.4	X	199.68650	231.58473	136.65568	1.55494	0.2035836	0.29725135	2.2235838	20	3 30.2	22.0
473714 2015 YH_{18}	15.8	X	327.75842	150.72952	266.51161	9.42778	0.1510187	0.18015870	3.1047923	20	11 16.1	19.5
473715 2015 YR_{18}	17.4	X	52.19891	356.66778	86.69288	12.11700	0.2102792	0.25699112	2.4501385	20	1 8.3	19.2
473716 2015 YV_{18}	16.4	X	24.41122	109.36060	273.65164	4.21307	0.1330248	0.20967643	2.8060989	20	—	—
473717 2015 YW_{18}	17.8	X	92.49736	151.48706	255.09884	3.84376	0.2257610	0.26477239	2.4018963	20	2 1.4	20.3
473718 2015 YU_{20}	13.7	X	265.19497	337.44478	4.37503	27.88975	0.0442389	0.08391422	5.1670857	20	5 10.8	20.9
473719 2016 AA	15.3	X	322.02831	153.46791	17.58325	19.20642	0.1951129	0.24508748	2.5288436	20	—	—
473720 2016 AP_{3}	15.5	X	311.81662	322.45045	80.89044	10.94427	0.0472312	0.17417065	3.1755533	20	10 14.1	19.9
473721 2016 AY_{116}	18.4	X	95.39284	270.33528	198.38013	0.63236	0.1390638	0.27361109	2.3498867	20	4 18.2	21.3
473722 2016 AF_{119}	17.7	X	6.75717	99.43637	135.99324	5.29068	0.0997603	0.28400014	2.2922238	20	5 22.9	19.8
473723 2016 AS_{121}	17.6	X	108.36395	147.95001	321.30912	6.56859	0.0602520	0.27769194	2.3268079	20	4 20.7	20.7
473724 2016 AV_{131}	17.2	X	318.19934	325.67873	193.53440	6.58588	0.0727714	0.21827649	2.7318997	20	—	—
473725 2016 BX_{6}	16.3	X	262.62520	251.24691	292.28025	9.53964	0.2146365	0.17665665	3.1456910	20	—	—
473726 2016 BU_{12}	17.3	X	116.39076	171.79545	294.39013	6.93097	0.1381255	0.27770178	2.3267529	20	5 9.2	20.6
473727 2016 BO_{81}	16.3	X	297.83696	178.64798	342.86036	11.18151	0.1316492	0.18294062	3.0732363	20	—	—
473728 2016 CR_{27}	17.2	X	77.29617	39.34910	97.43701	7.71059	0.0573565	0.26922055	2.3753662	20	4 22.8	20.1
473729 2016 CE_{58}	17.8	X	41.97066	68.30521	79.76697	6.17321	0.1605904	0.25791203	2.4443027	20	3 25.4	20.1
473730 2016 CG_{123}	18.2	X	97.34338	245.11019	271.11697	3.64373	0.1212577	0.29721222	2.2237789	20	6 25.3	20.9
473731 2016 CQ_{189}	16.7	X	4.77353	194.59254	3.82234	5.64200	0.2442518	0.23736508	2.5833990	20	3 17.4	18.5
473732 2016 CY_{200}	16.7	X	304.68734	139.88296	332.56999	8.81559	0.1723223	0.17839752	3.1251929	20	12 15.9	20.4
473733 2016 CZ_{204}	17.2	X	30.25944	262.34248	272.04773	1.51527	0.1308389	0.26242967	2.4161697	20	4 2.9	19.3
473734 2016 CL_{222}	17.3	X	329.93357	14.85081	226.04328	1.54276	0.1894449	0.25518594	2.4616798	20	3 10.5	20.0
473735 2016 CG_{256}	17.7	X	54.87012	74.50026	91.37770	8.22910	0.0807635	0.27732252	2.3288738	20	5 2.7	20.3
473736 2016 CB_{261}	16.8	X	319.08725	38.84474	222.95957	10.89351	0.1518504	0.23344860	2.6122127	20	3 28.7	20.1
473737 2016 DE_{22}	16.1	X	333.66534	94.70409	354.09160	10.03294	0.0977412	0.17498428	3.1657019	20	—	—
473738 2016 DV_{24}	16.2	X	315.88571	344.70980	145.43786	12.86391	0.0993190	0.18635015	3.0356350	20	—	—
473739 2016 DU_{25}	15.5	X	191.51336	143.41826	134.95760	11.29173	0.0690686	0.19306468	2.9648370	20	—	—
473740 2016 DB_{28}	15.7	X	223.28266	192.03016	24.63080	29.72794	0.1843062	0.17418562	3.1753713	20	12 27.5	21.0
473741 2016 ES_{4}	17.0	X	262.83242	337.08071	276.77411	4.90059	0.1077540	0.21167142	2.7884395	20	1 19.8	21.2
473742 2016 EV_{4}	17.6	X	14.59618	140.76857	29.17847	4.90102	0.1463265	0.23685996	2.5870706	20	3 3.2	20.1
473743 2016 EW_{4}	17.6	X	38.51742	187.81529	18.24152	9.60162	0.0577166	0.27172378	2.3607552	20	5 27.2	20.4
473744 2016 EA_{5}	17.5	X	359.39345	289.42332	300.63141	1.65929	0.1592626	0.25610899	2.4557614	20	4 26.3	19.6
473745 2016 EA_{7}	16.8	X	13.72976	341.84734	124.46358	12.07235	0.2512551	0.21907695	2.7252411	20	—	—
473746 2016 EO_{9}	17.3	X	233.96637	310.54341	330.77899	8.87087	0.1953699	0.21767984	2.7368893	20	1 21.2	22.0
473747 2016 EZ_{10}	16.1	X	207.50882	300.00877	45.52925	14.91619	0.1419082	0.24667670	2.5179704	20	3 19.4	20.3
473748 2016 EB_{11}	15.8	X	50.68607	338.98772	64.76487	12.70308	0.1145589	0.18963701	3.0004564	20	—	—
473749 2016 EW_{12}	15.7	X	195.83481	211.55974	57.73233	15.70564	0.2259806	0.17311308	3.1884733	20	—	—
473750 2016 EJ_{15}	16.1	X	267.97828	75.62287	102.51537	17.25219	0.1002910	0.17493350	3.1663146	20	—	—
473751 2016 EK_{17}	15.8	X	135.76049	240.80284	93.24226	17.80987	0.0977506	0.18484308	3.0521128	20	—	—
473752 2016 EL_{17}	15.9	X	346.18211	309.90230	144.45085	28.87188	0.2059149	0.18223111	3.0812081	20	—	—
473753 2016 EB_{18}	16.9	X	232.32860	244.02535	76.84423	13.80647	0.2966345	0.23420469	2.6065876	20	3 5.4	21.8
473754 2016 EC_{30}	15.8	X	188.81832	145.46320	126.92295	17.57624	0.0595372	0.18592555	3.0402549	20	—	—
473755 2016 EY_{32}	16.4	X	78.25494	318.93258	129.79115	15.56867	0.1228896	0.23762821	2.5814916	20	2 29.5	19.6
473756 2016 EZ_{32}	17.6	X	359.88775	120.21911	45.48227	12.00969	0.1161771	0.22974997	2.6401731	20	2 5.6	20.8
473757 2016 EB_{37}	17.0	X	284.83816	55.47106	209.58660	14.22936	0.0755724	0.22949263	2.6421465	20	2 25.5	20.9
473758 2016 ES_{37}	16.9	X	349.55780	61.68477	148.37333	13.62042	0.2031053	0.22679527	2.6630545	20	3 7.6	19.5
473759 2016 EH_{45}	16.1	X	205.17448	23.92974	204.14953	10.08269	0.0502128	0.17653065	3.1471877	20	—	—
473760 2016 EC_{46}	16.8	X	127.13808	280.45149	88.13590	11.37706	0.1975240	0.21440065	2.7647253	20	2 2.3	21.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
473761 2016 EG_{50}	16.6	X	57.20198	300.30797	119.91636	15.45200	0.2134631	0.21314440	2.7755780	20	—	—
473762 2016 EX_{53}	15.8	X	136.16090	98.74434	232.09415	7.88680	0.0665291	0.17397414	3.1779441	20	—	—
473763 2016 EL_{54}	16.5	X	86.42807	86.70149	0.19886	21.78621	0.0852241	0.22628947	2.6670213	20	3 7.7	20.0
473764 2016 EP_{54}	16.3	X	28.84308	308.16243	153.67306	9.87637	0.0534244	0.18258023	3.0772790	20	1 4.9	20.4
473765 2016 EV_{57}	17.5	X	343.93105	173.37305	56.70636	2.36413	0.1380164	0.26072894	2.4266654	20	3 29.0	19.9
473766 2016 EE_{58}	17.2	X	79.52652	279.70746	127.68668	7.55073	0.0243695	0.21439956	2.7647346	20	—	—
473767 2016 EN_{59}	18.3	X	219.53604	195.45182	204.97594	3.25302	0.1131140	0.30119654	2.2041242	20	6 4.3	21.2
473768 2016 EQ_{60}	17.5	X	53.94084	339.23384	134.80590	5.28763	0.0621326	0.24078313	2.5588923	20	2 16.3	20.5
473769 2016 EJ_{65}	16.3	X	298.83112	137.46671	29.80243	9.80867	0.0360276	0.17509798	3.1643313	20	—	—
473770 2016 ES_{65}	16.3	X	136.99085	336.69720	6.70646	9.30190	0.0646434	0.17775184	3.1327565	20	1 2.7	21.0
473771 2016 EU_{68}	16.0	X	357.61082	321.96823	100.69016	12.38956	0.1636596	0.17328546	3.1863585	20	—	—
473772 2016 EP_{70}	16.0	X	321.23550	262.53892	216.43648	15.21214	0.2465259	0.17646886	3.1479222	20	—	—
473773 2016 EK_{73}	17.5	X	344.38933	163.15178	87.78612	4.67459	0.1639277	0.26106930	2.4245558	20	4 29.1	19.7
473774 2016 EG_{76}	18.3	X	338.36300	102.37156	175.04175	4.63629	0.1404130	0.28495092	2.2871220	20	5 30.3	20.3
473775 2016 EM_{77}	16.9	X	251.64280	234.23202	348.65576	4.87989	0.0637289	0.19643243	2.9308523	20	—	—
473776 2016 EQ_{78}	16.3	X	264.85911	261.40117	271.96653	11.74557	0.2624131	0.17576081	3.1563708	20	12 15.3	20.5
473777 2016 EW_{78}	16.1	X	23.88522	129.81876	27.39138	21.86241	0.0195149	0.22302720	2.6929657	20	3 12.8	20.0
473778 2016 EO_{79}	16.4	X	320.94285	195.61335	18.40556	15.28904	0.2071755	0.22477702	2.6789716	20	1 29.1	20.1
473779 2016 EX_{79}	16.9	X	259.52167	154.28901	140.66093	11.08113	0.0596935	0.23908136	2.5710207	20	3 11.8	20.5
473780 2016 EH_{80}	16.4	X	295.11932	18.28900	104.16855	11.70167	0.1963330	0.17311686	3.1884269	20	12 9.1	20.1
473781 2016 EA_{81}	16.1	X	136.24330	307.70621	13.51271	16.22834	0.1375144	0.18625343	3.0366859	20	—	—
473782 2016 EY_{81}	15.8	X	205.54044	178.75994	77.55358	11.64533	0.0664623	0.18873286	3.0100315	20	—	—
473783 2016 EF_{82}	16.0	X	57.73660	334.50972	60.28819	11.74313	0.0886413	0.19032101	2.9932631	20	—	—
473784 2016 EM_{82}	17.5	X	275.61607	235.12034	103.51638	9.82446	0.1806128	0.28802402	2.2708246	20	5 11.5	20.5
473785 2016 EX_{85}	17.8	X	329.35092	70.05182	349.50268	18.73444	0.1302545	0.38272299	1.8787962	20	—	—
473786 2016 EB_{87}	17.6	X	103.63856	62.25650	51.24819	5.53022	0.0949775	0.26473842	2.4021018	20	4 30.2	20.7
473787 2016 EE_{87}	16.0	X	257.73634	164.10367	67.39733	7.81970	0.0887174	0.19513213	2.9438580	20	—	—
473788 2016 EO_{87}	17.6	X	355.76762	100.96535	147.56737	6.12733	0.0555948	0.26119512	2.4237771	20	5 23.9	20.4
473789 2016 EV_{87}	16.2	X	304.18949	15.34408	148.98905	10.38413	0.0743587	0.17566959	3.1574634	20	—	—
473790 2016 EY_{87}	17.5	X	5.05590	180.74438	121.24547	7.30225	0.1922102	0.29169236	2.2517457	20	9 22.1	19.3
473791 2016 EZ_{87}	16.0	X	312.69746	0.16161	143.03927	11.50248	0.1338691	0.17126352	3.2113881	20	—	—
473792 2016 EN_{88}	17.0	X	330.24542	187.19382	23.14316	7.66707	0.1219772	0.23030331	2.6359425	20	2 16.3	20.3
473793 2016 EH_{89}	17.3	X	9.41189	296.45474	170.67332	4.37401	0.0694935	0.20922742	2.8101122	20	—	—
473794 2016 EK_{89}	17.7	X	228.96300	9.14844	329.34672	5.49071	0.0748831	0.26356026	2.4092550	20	3 24.5	21.0
473795 2016 EG_{90}	16.0	X	205.17187	228.38060	40.78587	6.64539	0.0828186	0.18314490	3.0709506	20	—	—
473796 2016 EY_{90}	16.7	X	229.07742	218.55071	93.12504	9.96957	0.1641080	0.23841457	2.5758121	20	2 22.8	20.9
473797 2016 EY_{91}	15.3	X	83.46499	327.39830	16.35062	17.35314	0.0093190	0.17204150	3.2016995	20	—	—
473798 2016 EZ_{91}	17.1	X	83.25465	309.57950	96.83459	10.60231	0.0509836	0.21475654	2.7616700	20	1 3.8	20.5
473799 2016 EK_{92}	15.8	X	101.70033	255.93434	72.88672	10.34724	0.1836218	0.16938311	3.2351120	20	—	—
473800 2016 EM_{95}	17.6	X	321.43926	176.82663	83.24513	6.87453	0.1175182	0.26074744	2.4265505	20	4 8.7	20.4
473801 2016 EF_{97}	16.1	X	265.73970	43.81587	127.64254	17.81239	0.1059431	0.17451044	3.1714298	20	—	—
473802 2016 EH_{101}	17.2	X	21.28379	31.42446	109.27364	8.35176	0.1543856	0.23368141	2.6104774	20	2 2.1	19.6
473803 2016 EB_{106}	16.8	X	87.18159	271.26269	130.09240	14.61247	0.1851029	0.22216710	2.6999116	20	1 19.9	20.1
473804 2016 ED_{106}	17.2	X	70.47019	291.55716	130.03564	11.86910	0.1335152	0.22224413	2.6992878	20	1 13.1	20.2
473805 2016 EG_{108}	17.6	X	43.35269	197.11944	17.71923	2.35520	0.1426147	0.26645950	2.3917470	20	7 3.4	20.0
473806 2016 EM_{108}	17.5	X	62.22462	50.51622	128.46056	7.67517	0.0484302	0.28027825	2.3124719	20	5 27.8	20.3
473807 2016 EU_{108}	15.7	X	101.96131	5.39714	1.56045	12.05563	0.0412744	0.19968487	2.8989404	20	—	—
473808 2016 EK_{109}	16.1	X	234.25571	100.41653	117.71870	9.62971	0.0545407	0.18246254	3.0786022	20	—	—
473809 2016 EV_{109}	15.9	X	185.52842	245.05978	29.95881	16.43094	0.1743474	0.17512575	3.1639968	20	—	—
473810 2016 EF_{110}	17.4	X	332.79055	108.15607	67.71505	4.35058	0.1303418	0.21676380	2.7445947	20	1 4.1	20.7
473811 2016 EN_{110}	17.6	X	76.84989	122.46170	65.07685	6.57280	0.1236527	0.29020030	2.2594573	20	7 14.0	20.3
473812 2016 EQ_{110}	16.0	X	350.61533	277.62721	185.86759	25.99532	0.2086673	0.18117679	3.0931502	20	—	—
473813 2016 EB_{111}	17.7	X	12.66388	31.57945	226.53274	1.73090	0.1451127	0.28399924	2.2922286	20	7 13.5	19.5
473814 2016 EO_{111}	16.1	X	253.14180	259.63157	13.73201	14.07764	0.0249750	0.22143183	2.7058851	20	2 15.4	20.0
473815 2016 EJ_{112}	16.8	X	354.44908	353.69699	157.34134	5.64150	0.0577688	0.21834634	2.7313169	20	1 11.2	20.4
473816 2016 EK_{112}	16.8	X	300.38120	27.11378	97.40491	2.03619	0.1863774	0.17439090	3.1728790	20	12 21.3	20.3
473817 2016 EX_{113}	16.7	X	299.34741	14.48668	125.35862	4.51989	0.1570535	0.17979517	3.1089760	20	—	—
473818 2016 EA_{114}	16.2	X	267.01652	163.70951	2.25923	15.67025	0.0478282	0.17108355	3.2136399	20	—	—
473819 2016 EF_{114}	17.2	X	316.02006	93.23716	63.51880	2.90093	0.0491518	0.19709894	2.9242412	20	—	—
473820 2016 EH_{114}	17.3	X	41.10854	347.67145	149.17972	8.24939	0.0535808	0.24071086	2.5594045	20	2 27.3	20.3
473821 2016 EX_{114}	16.3	X	303.04578	60.47165	77.89592	2.62541	0.1406304	0.18118772	3.0930258	20	—	—
473822 2016 EJ_{115}	16.2	X	147.65773	147.14886	158.20323	16.21980	0.0740037	0.18064503	3.0992174	20	—	—
473823 2016 EM_{115}	16.2	X	209.95543	143.45800	142.22997	9.72157	0.0796870	0.20360879	2.8615743	20	1 6.9	20.6
473824 2016 EB_{116}	16.0	X	236.53803	71.53477	156.49047	17.36462	0.1670132	0.17982701	3.1086091	20	—	—
473825 2016 EO_{116}	18.3	X	358.68475	146.73253	147.98651	6.37984	0.0977228	0.30573075	2.1822775	20	8 12.9	20.0
473826 2016 ER_{116}	16.8	X	319.60624	105.98760	11.43045	9.11075	0.1837582	0.18190886	3.0848460	20	—	—
473827 2016 EX_{116}	15.2	X	14.50531	243.18892	163.72540	19.18649	0.1322838	0.17017282	3.2250955	20	—	—
473828 2016 ES_{117}	15.6	X	157.70723	258.92019	1.77387	14.56300	0.0557988	0.16121731	3.3434509	20	12 22.0	20.9
473829 2016 ED_{120}	16.2	X	46.24758	289.38776	111.63612	10.22556	0.1131568	0.18895639	3.0076571	20	—	—
473830 2016 EO_{122}	17.4	X	54.01918	234.06391	204.60816	3.45552	0.0801779	0.21056041	2.7982396	20	1 6.9	20.8
473831 2016 EA_{124}	16.0	X	154.97795	325.25398	341.01284	9.62468	0.0622371	0.17902394	3.1178985	20	—	—
473832 2016 EB_{124}	17.0	X	7.53044	316.26531	192.12411	11.51776	0.0607178	0.22139833	2.7061581	20	1 23.5	20.6
473833 2016 EF_{124}	16.9	X	140.65264	69.63231	302.04384	3.99407	0.0823535	0.21753260	2.7381243	20	2 4.5	20.7
473834 2016 EK_{124}	17.4	X	93.88804	273.32051	205.31706	5.57071	0.1067569	0.26258825	2.4151968	20	4 25.9	20.3
473835 2016 ET_{124}	16.6	X	85.17418	84.45609	312.88613	5.07245	0.0742408	0.20025508	2.8934347	20	1 1.2	20.5
473836 2016 EU_{124}	17.0	X	156.86075	87.29626	257.75823	4.09875	0.0569544	0.20811889	2.8200819	20	1 19.4	21.1
473837 2016 EV_{124}	16.5	X	283.44604	298.86830	244.19346	4.03894	0.1206380	0.18572884	3.0424012	20	—	—
473838 2016 EM_{125}	16.5	X	233.27612	8.96849	229.28539	2.52370	0.0846227	0.18367771	3.0650089	20	—	—
473839 2016 EB_{126}	17.1	X	198.65382	89.91117	263.56727	1.15087	0.1120067	0.24129843	2.5552479	20	3 13.1	20.9
473840 2016 EM_{126}	17.2	X	223.94092	308.29216	324.47820	1.11351	0.0187480	0.20418708	2.8561689	20	1 7.9	21.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
473841 2016 EO_{126}	17.0	X	153.83997	118.28467	260.06391	1.20400	0.1060713	0.23115431	2.6294689	20	2 27.8	20.9
473842 2016 EQ_{126}	16.4	X	284.42396	327.86384	184.91683	4.73585	0.1288359	0.17080726	3.2171045	20	—	—
473843 2016 ES_{126}	17.1	X	58.40221	185.67547	242.93779	1.07070	0.0525340	0.20266943	2.8704097	20	—	—
473844 2016 EW_{127}	17.9	X	29.96036	37.15448	163.88549	3.75358	0.0593296	0.26624454	2.3930342	20	5 9.7	20.6
473845 2016 EM_{128}	16.2	X	327.60379	292.17596	190.59311	2.02185	0.0266078	0.17632072	3.1496851	20	—	—
473846 2016 EW_{129}	17.0	X	169.54293	83.45310	240.64208	1.10084	0.0898902	0.19805117	2.9148605	20	1 12.8	21.2
473847 2016 EX_{129}	18.0	X	72.99252	141.83111	353.51257	6.17453	0.0846574	0.25626020	2.4547953	20	4 13.3	20.9
473848 2016 EE_{130}	17.3	X	260.51283	30.23611	251.80964	0.38781	0.2838491	0.21327458	2.7744484	20	2 5.5	22.0
473849 2016 EH_{130}	16.4	X	272.04056	177.15453	1.73621	10.41432	0.0476730	0.17460116	3.1703312	20	—	—
473850 2016 EM_{130}	16.2	X	297.90534	152.47638	350.64243	15.45771	0.1222063	0.17321559	3.1872153	20	—	—
473851 2016 ER_{130}	16.2	X	60.41997	51.83582	348.53919	10.24630	0.0448601	0.18202372	3.0835481	20	—	—
473852 2016 ET_{130}	17.6	X	175.03496	116.11523	259.94067	1.75401	0.1047964	0.24144292	2.5542284	20	3 16.8	21.4
473853 2016 EV_{130}	17.9	X	45.29467	350.89148	200.48276	4.65881	0.1424206	0.26832866	2.3806269	20	5 31.8	20.2
473854 2016 EZ_{130}	18.2	X	114.07123	235.93833	214.01163	4.11430	0.1852692	0.26172355	2.4205136	20	4 23.2	21.4
473855 2016 EB_{131}	17.6	X	14.77000	23.27252	195.85660	2.97728	0.1866797	0.26069306	2.4268880	20	5 16.5	19.4
473856 2016 EM_{131}	17.1	X	208.17997	333.25108	343.68304	4.37874	0.0823784	0.21699226	2.7426679	20	2 10.8	21.3
473857 2016 EE_{132}	18.2	X	188.11597	111.15585	336.43554	4.09927	0.1092951	0.30274276	2.1966130	20	7 4.9	21.2
473858 2016 EL_{132}	16.8	X	147.04678	353.55714	352.17389	11.65379	0.0580388	0.19851114	2.9103561	20	1 14.3	21.1
473859 2016 EY_{132}	17.7	X	316.92700	263.87683	354.23429	11.17006	0.1502308	0.24399593	2.5363800	20	3 21.2	20.8
473860 2016 EL_{133}	18.3	X	50.47098	308.65534	305.57104	1.94451	0.1814597	0.30108292	2.2046787	20	9 21.8	20.8
473861 2016 ES_{133}	15.7	X	218.48759	306.40735	206.94983	8.38077	0.1540294	0.12597160	3.9411317	20	10 7.8	21.8
473862 2016 EX_{133}	15.9	X	224.96262	238.72535	0.38529	16.20611	0.1157624	0.17416303	3.1756459	20	—	—
473863 2016 EC_{134}	17.6	X	314.70024	63.60657	184.05011	1.67333	0.0526455	0.24228754	2.5482889	20	3 19.7	20.8
473864 2016 EG_{134}	16.9	X	253.22265	281.81903	358.02771	4.45373	0.0790977	0.21994474	2.7180681	20	2 13.5	20.8
473865 2016 EH_{134}	16.8	X	159.70825	29.26235	3.53648	6.09159	0.1515462	0.24401715	2.5362330	20	3 25.6	20.6
473866 2016 ET_{134}	17.3	X	307.63543	260.43570	4.66035	11.09156	0.2842680	0.23243912	2.6197704	20	3 1.7	20.9
473867 2016 EG_{135}	16.7	X	131.77029	172.55304	207.17570	3.32747	0.1087078	0.21139040	2.7909103	20	2 7.5	20.8
473868 2016 EK_{135}	16.9	X	192.63181	346.21104	321.57848	1.25191	0.0884434	0.19655356	2.9296479	20	1 17.2	21.4
473869 2016 EU_{135}	16.0	X	149.31840	311.35278	17.02267	6.00295	0.1248243	0.18236656	3.0796822	20	1 3.4	20.7
473870 2016 EK_{136}	16.9	X	262.05624	197.51672	30.31381	4.95761	0.1182946	0.19168321	2.9790651	20	—	—
473871 2016 EP_{136}	16.4	X	96.97849	41.06701	11.71137	5.90073	0.0162418	0.21262178	2.7801243	20	1 27.3	20.2
473872 2016 EF_{137}	16.8	X	205.06340	230.48506	42.21532	0.63974	0.1335592	0.18157308	3.0886480	20	—	—
473873 2016 EA_{138}	16.8	X	261.83929	59.17610	147.49262	3.59693	0.1340559	0.18150417	3.0894297	20	—	—
473874 2016 EK_{138}	17.3	X	301.74985	186.07228	30.47470	4.63445	0.1399833	0.21239087	2.7821390	20	1 15.0	21.2
473875 2016 EP_{138}	16.7	X	20.57068	75.58748	15.04756	10.97159	0.1203496	0.19214249	2.9743159	20	—	—
473876 2016 EC_{139}	17.4	X	118.50556	138.71617	16.48403	7.17688	0.0330762	0.29335547	2.2432272	20	7 12.1	20.2
473877 2016 EM_{139}	16.5	X	4.78907	103.90362	331.24952	4.47514	0.1409699	0.18007935	3.1057043	20	—	—
473878 2016 EY_{139}	17.6	X	72.59588	100.13561	9.93488	2.08371	0.1611784	0.24303140	2.5430865	20	3 23.6	20.3
473879 2016 EH_{140}	17.7	X	286.42712	319.61760	344.02168	5.23684	0.0487019	0.26412810	2.4058007	20	4 22.8	20.7
473880 2016 EX_{140}	17.5	X	263.18410	114.03019	216.18081	2.46481	0.1992872	0.25507630	2.4623851	20	4 10.5	21.3
473881 2016 ED_{141}	18.1	X	53.46212	19.25602	188.62966	7.80025	0.0567308	0.28174817	2.3044218	20	6 25.5	20.9
473882 2016 EF_{141}	18.3	X	18.09857	92.91685	140.09551	0.61906	0.1763953	0.26867278	2.3785937	20	6 15.9	20.1
473883 2016 ER_{141}	16.5	X	298.11254	157.85617	13.89518	10.97679	0.1018108	0.18663030	3.0325964	20	—	—
473884 2016 ER_{142}	16.6	X	209.14742	162.01367	161.08150	5.11745	0.1274861	0.21655098	2.7463926	20	2 17.5	21.0
473885 2016 EX_{142}	17.6	X	120.15083	75.87527	34.64387	5.64696	0.0749502	0.26827583	2.3809394	20	5 13.4	20.6
473886 2016 EK_{143}	17.0	X	349.00850	116.03522	31.40176	2.46644	0.0165728	0.20087001	2.8875266	20	1 7.6	20.9
473887 2016 EG_{144}	17.2	X	283.92148	226.34547	8.93016	2.62237	0.1172414	0.20913188	2.8109679	20	1 20.6	21.3
473888 2016 EK_{144}	16.8	X	267.46621	52.86990	139.39215	0.26494	0.1253711	0.17534301	3.1613827	20	—	—
473889 2016 EQ_{144}	16.4	X	327.39246	119.87782	9.35555	10.62181	0.0444707	0.17554849	3.1589153	20	—	—
473890 2016 EK_{145}	17.5	X	36.11414	156.07353	26.75836	8.50792	0.1269836	0.25561222	2.4589421	20	4 27.6	20.0
473891 2016 EL_{145}	16.7	X	274.24990	217.31018	20.29481	13.53268	0.0781091	0.20536017	2.8452815	20	1 21.1	21.1
473892 2016 ES_{145}	17.8	X	15.72717	207.23217	40.50586	6.91587	0.0773703	0.27786083	2.3258650	20	6 25.8	20.2
473893 2016 ET_{145}	16.6	X	346.50354	54.88885	119.30881	4.66687	0.0359296	0.21528113	2.7571818	20	2 2.4	20.0
473894 2016 ET_{146}	17.9	X	9.84383	125.45801	139.41146	3.02240	0.1264148	0.27987666	2.3146834	20	7 16.4	19.9
473895 2016 EX_{146}	16.9	X	338.92758	50.52131	133.62507	4.69135	0.0352326	0.21513898	2.7583962	20	2 4.7	20.4
473896 2016 EY_{146}	17.7	X	44.18752	162.90428	73.21601	2.92754	0.1176796	0.28658642	2.2784123	20	8 4.9	20.1
473897 2016 EB_{147}	16.1	X	151.65732	164.49199	172.38111	11.30701	0.0589138	0.18778720	3.0201283	20	1 6.9	20.7
473898 2016 EK_{147}	16.3	X	20.67995	301.56092	135.87513	5.78658	0.1712397	0.18310677	3.0713769	20	—	—
473899 2016 EN_{147}	17.3	X	1.97055	257.13163	36.02996	10.46928	0.2087861	0.28635121	2.2796598	20	9 4.2	19.1
473900 2016 EP_{147}	16.7	X	160.78005	341.43963	57.00790	8.30898	0.1223808	0.24246437	2.5470498	20	4 4.6	20.6
473901 2016 ER_{147}	17.3	X	359.38435	73.86434	115.35056	4.58467	0.0693382	0.23167215	2.6255492	20	3 7.9	20.4
473902 2016 ED_{148}	18.0	X	159.96628	21.53515	98.75402	5.17472	0.1283669	0.30053878	2.2073390	20	7 18.8	21.2
473903 2016 EE_{148}	16.5	X	287.39598	73.98068	113.41072	6.70951	0.0748828	0.18244141	3.0788399	20	—	—
473904 2016 ET_{148}	15.9	X	44.99886	264.22940	167.70722	11.46949	0.1322734	0.18968207	2.9999812	20	—	—
473905 2016 EB_{149}	16.5	X	313.44004	194.37084	38.96580	13.18900	0.1304572	0.22381772	2.6866210	20	2 25.8	20.2
473906 2016 ER_{149}	15.8	X	206.96507	241.49332	40.39117	10.60977	0.0441201	0.18650014	3.0340072	20	1 2.7	20.4
473907 2016 ES_{149}	17.8	X	257.73253	239.04039	160.07327	5.99612	0.0646047	0.30264681	2.1970772	20	7 29.8	20.4
473908 2016 EZ_{149}	16.6	X	193.32251	271.08785	74.40084	4.29724	0.1342594	0.21549092	2.7553920	20	3 3.2	21.0
473909 2016 EB_{150}	18.2	X	191.27399	25.72041	58.92332	5.44617	0.1280012	0.29603523	2.2296693	20	7 3.0	21.3
473910 2016 EN_{150}	17.3	X	243.32420	146.57191	185.25603	14.18743	0.1092074	0.24066679	2.5597169	20	4 2.5	20.9
473911 2016 EU_{150}	16.6	X	181.46906	224.14868	95.14933	3.29621	0.0954745	0.19086559	2.9875668	20	1 20.8	21.3
473912 2016 EX_{150}	18.3	X	61.33021	83.81454	163.79101	4.29496	0.0802680	0.30629829	2.1795809	20	9 12.9	20.7
473913 2016 ED_{151}	17.3	X	298.48034	233.98790	45.23761	3.79879	0.1880198	0.23645138	2.5900500	20	3 20.9	20.8
473914 2016 EH_{151}	16.5	X	248.84596	82.67000	143.38374	4.01357	0.0542247	0.17950319	3.1123465	20	—	—
473915 2016 EJ_{151}	16.8	X	226.30233	160.47859	170.09577	12.61829	0.1065722	0.23532050	2.5983414	20	3 14.1	20.6
473916 2016 EU_{151}	15.9	X	308.16561	332.84248	178.65411	10.51231	0.0624164	0.17735725	3.1374014	20	—	—
473917 2016 ED_{152}	16.2	X	69.52034	280.24872	146.89536	6.53720	0.0461947	0.19961342	2.8996321	20	1 13.3	20.0
473918 2016 EN_{152}	15.9	X	342.49610	302.95174	179.06913	15.56258	0.0705786	0.17841566	3.1249812	20	—	—
473919 2016 ES_{152}	16.7	X	355.04201	134.46829	21.01687	8.46300	0.0940172	0.21296298	2.7771540	20	1 18.1	20.2
473920 2016 EX_{152}	17.9	X	114.80356	36.18353	63.85103	2.26458	0.1074595	0.26549180	2.3975554	20	4 27.8	21.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
473921 2016 EU_{154}	16.3	X	155.02779	127.13128	203.22203	7.89391	0.1300252	0.18929930	3.0040238	20	1 8.9	21.1
473922 2016 EE_{155}	16.5	X	319.27508	128.95348	7.39698	9.68300	0.0785161	0.17777298	3.1325081	20	—	—
473923 2016 EH_{155}	16.6	X	226.05289	55.36401	183.83471	0.46555	0.1366658	0.17200022	3.2022118	20	—	—
473924 2016 EJ_{155}	16.5	X	266.73940	232.66591	1.79834	1.73060	0.0132121	0.20188102	2.8778781	20	1 13.2	20.4
473925 2016 EL_{155}	16.8	X	255.67115	250.39137	7.56774	7.15774	0.0144437	0.20827184	2.8187010	20	1 29.5	20.8
473926 2016 ES_{158}	18.0	X	23.02941	78.83018	93.90480	4.33968	0.1487195	0.25133989	2.4867289	20	3 22.7	20.3
473927 2016 EM_{159}	17.7	X	80.62807	358.98332	82.12839	4.05176	0.1563175	0.23940514	2.5687021	20	2 26.8	20.7
473928 2016 EK_{160}	16.1	X	140.75937	306.73673	25.24883	11.14739	0.0621783	0.18159662	3.0883810	20	—	—
473929 2016 EX_{160}	16.6	X	346.38967	178.36873	30.85710	5.75855	0.1637124	0.23640327	2.5904014	20	3 4.8	19.3
473930 2016 EK_{161}	15.7	X	234.39119	266.97859	309.12721	10.89016	0.0939587	0.17871061	3.1215418	20	—	—
473931 2016 EM_{161}	17.4	X	40.73254	88.23466	21.60570	12.06138	0.0828233	0.24133437	2.5549943	20	1 26.1	20.6
473932 2016 EF_{163}	16.4	X	128.89736	189.53501	142.62063	9.58965	0.0969619	0.18894362	3.0077926	20	—	—
473933 2016 EG_{163}	15.8	X	297.64148	135.57314	6.38822	15.66370	0.0756773	0.17870850	3.1215664	20	—	—
473934 2016 EQ_{163}	15.9	X	32.02347	164.65221	242.73319	9.32015	0.1220683	0.18346952	3.0673271	20	—	—
473935 2016 ER_{163}	15.7	X	266.65841	354.20319	185.38631	28.09109	0.1121415	0.17901043	3.1180554	20	—	—
473936 2016 EF_{166}	16.4	X	249.08028	251.22974	331.56646	8.15015	0.0330937	0.18705631	3.0279902	20	—	—
473937 2016 EV_{166}	16.8	X	337.70886	214.02293	239.80234	0.12493	0.1730306	0.17495595	3.1660437	20	—	—
473938 2016 EW_{167}	16.5	X	138.70662	329.25953	5.28729	9.23906	0.0892061	0.18595007	3.0399877	20	—	—
473939 2016 ED_{168}	16.3	X	336.57932	278.31846	175.38039	16.06596	0.2239120	0.17738269	3.1371014	20	—	—
473940 2016 EH_{169}	17.6	X	42.48309	259.20377	207.25515	2.85778	0.0495175	0.21496682	2.7598688	20	1 22.9	21.0
473941 2016 EP_{169}	17.5	X	225.31042	32.41345	286.64092	1.85779	0.0489486	0.23077083	2.6323812	20	2 29.9	21.3
473942 2016 EY_{170}	16.3	X	252.41343	213.40169	10.28688	9.33140	0.0310732	0.18826052	3.0150641	20	—	—
473943 2016 EG_{171}	17.9	X	14.21920	4.59431	259.70847	2.21311	0.1351067	0.28742379	2.2739849	20	7 26.2	19.8
473944 2016 EL_{172}	17.2	X	276.48942	146.98969	126.91911	7.27638	0.0710123	0.22584218	2.6705416	20	3 4.9	20.9
473945 2016 EP_{172}	16.0	X	285.44757	264.05987	318.09538	13.75804	0.0452769	0.21710043	2.7417568	20	1 15.7	19.8
473946 2016 EY_{175}	17.9	X	310.89370	253.28149	4.53887	1.43266	0.1240640	0.24586469	2.5235114	20	3 16.9	20.9
473947 2016 EU_{177}	16.4	X	281.69590	299.02745	229.03885	7.44458	0.1388196	0.17497351	3.1658319	20	—	—
473948 2016 EY_{178}	18.3	X	109.62907	170.09613	325.37718	2.42354	0.1238574	0.27830500	2.3233896	20	6 11.0	21.3
473949 2016 EF_{179}	16.0	X	131.68492	127.94362	197.83452	7.86475	0.0501385	0.17052321	3.2206761	20	—	—
473950 2016 EK_{179}	17.2	X	223.11341	92.89724	194.99048	1.44038	0.0316402	0.20648158	2.8349702	20	1 24.1	21.1
473951 2016 EQ_{179}	16.4	X	200.13961	66.83727	210.35700	6.30318	0.0723484	0.18256794	3.0774171	20	—	—
473952 2016 ES_{179}	17.9	X	8.16132	316.29022	326.20816	3.11058	0.1997407	0.28720236	2.2751535	20	8 22.9	19.4
473953 2016 EO_{180}	17.6	X	121.47012	272.57842	190.21942	9.76290	0.1642967	0.27006959	2.3703852	20	5 17.6	21.1
473954 2016 EE_{181}	16.8	X	54.10110	98.53360	348.30964	1.52006	0.0360694	0.20396314	2.8582591	20	1 16.4	20.5
473955 2016 EF_{181}	16.7	X	202.12143	323.97984	356.10621	5.62873	0.0372771	0.21273089	2.7791736	20	2 9.4	20.7
473956 2016 EN_{181}	17.2	X	331.85531	17.84338	202.79093	11.89853	0.1777710	0.22828430	2.6514617	20	2 17.2	20.6
473957 2016 EQ_{181}	17.0	X	46.74911	285.82873	197.84121	12.82603	0.2160792	0.23205986	2.6226240	20	3 1.5	19.7
473958 2016 EE_{182}	17.2	X	5.19167	333.44548	196.64732	14.15300	0.0936900	0.22732778	2.6588941	20	2 13.4	20.5
473959 2016 EX_{184}	17.1	X	23.90500	285.66192	178.03347	12.01872	0.0888868	0.21046582	2.7990780	20	—	—
473960 2016 EK_{186}	17.4	X	17.60255	313.18999	152.29857	0.91014	0.1294390	0.21022919	2.8011780	20	—	—
473961 2016 EL_{186}	17.6	X	305.52364	277.34948	3.26555	2.57810	0.0812209	0.26301198	2.4126020	20	4 14.4	20.4
473962 2016 EE_{187}	16.9	X	306.37668	309.41470	276.87015	10.69743	0.1314738	0.23097271	2.6308471	20	1 27.7	20.5
473963 2016 EX_{187}	15.4	X	186.25313	339.75149	273.61931	9.54623	0.0556586	0.17677565	3.1442790	20	—	—
473964 2016 EA_{188}	15.7	X	255.97178	310.24651	251.09752	7.75817	0.0644303	0.18861283	3.0113083	20	—	—
473965 2016 EE_{188}	17.6	X	16.77806	321.52435	236.02370	6.07652	0.0467591	0.26506948	2.4001013	20	4 9.3	20.5
473966 2016 EK_{188}	16.3	X	331.74046	180.39474	292.12709	8.60802	0.0848803	0.18696088	3.0290205	20	—	—
473967 2016 EA_{190}	17.8	X	18.89510	349.71147	230.35484	5.25198	0.1027751	0.27457250	2.3443981	20	5 20.9	20.1
473968 2016 EK_{190}	16.7	X	313.22663	194.64128	276.86714	6.69840	0.1381322	0.17455937	3.1708372	20	12 30.3	20.3
473969 2016 EM_{191}	16.6	X	251.51932	294.13021	320.35593	11.26011	0.0683118	0.21414696	2.7669083	20	1 13.9	20.7
473970 2016 EN_{191}	15.7	X	237.68863	304.17441	335.28224	24.24511	0.1448065	0.21542985	2.7559128	20	1 29.9	20.3
473971 2016 EW_{191}	18.1	X	168.48634	94.83626	304.54951	11.75962	0.1722026	0.27274781	2.3548425	20	4 4.4	22.1
473972 2016 EP_{192}	17.1	X	30.74385	308.39358	196.35555	9.22819	0.1498877	0.23729494	2.5839081	20	2 22.2	19.7
473973 2016 EE_{193}	17.1	X	73.75784	292.13594	193.19840	12.74644	0.1203598	0.23759580	2.5817263	20	4 10.1	20.3
473974 2016 EM_{195}	16.6	X	304.88484	123.58497	127.21077	16.78413	0.2385873	0.22087972	2.7103923	20	2 15.6	20.3
473975 2016 EX_{195}	16.1	X	50.66440	58.09782	14.38543	11.01991	0.0321306	0.18304916	3.0720213	20	—	—
473976 2016 EB_{196}	16.1	X	253.19465	58.00909	127.17695	10.20817	0.0418607	0.17536163	3.1611590	20	—	—
473977 2016 EG_{196}	16.3	X	268.39945	39.91833	149.76062	18.28698	0.1767082	0.18107881	3.0942659	20	—	—
473978 2016 EK_{196}	15.5	X	263.92959	188.92922	16.08679	17.95154	0.1520025	0.18133998	3.0912942	20	—	—
473979 2016 ER_{196}	15.5	X	242.82405	154.16533	52.94181	23.45602	0.1431735	0.17312891	3.1882791	20	—	—
473980 2016 ES_{196}	15.9	X	258.98695	90.72227	105.30456	19.69748	0.1454962	0.17592605	3.1543940	20	—	—
473981 2016 ET_{196}	15.6	X	269.95787	181.67183	26.58778	18.47062	0.0786029	0.18603835	3.0390259	20	—	—
473982 2016 EH_{197}	16.4	X	43.12577	294.77192	167.54490	24.60837	0.1625683	0.21816616	2.7328206	20	1 22.8	19.7
473983 2016 EA_{198}	17.1	X	249.81290	273.14064	356.64806	2.10424	0.1341190	0.21921586	2.7240897	20	1 23.7	21.2
473984 2016 ER_{198}	18.0	X	345.60499	133.75291	160.76037	3.28922	0.1469102	0.29024946	2.2592022	20	7 14.4	19.6
473985 2016 EE_{201}	17.7	X	31.04122	99.02043	121.47926	7.04714	0.0552690	0.28029370	2.3123868	20	6 9.1	20.3
473986 2016 EM_{201}	17.7	X	125.95031	335.38552	105.58035	5.68172	0.1370073	0.26484036	2.4014853	20	4 21.6	21.1
473987 2016 EU_{201}	16.5	X	34.10241	0.88152	102.26961	7.56120	0.0403632	0.21315259	2.7755069	20	1 8.0	20.0
473988 2016 EY_{201}	18.3	X	74.83353	48.03576	153.70865	2.85566	0.0498894	0.30500873	2.1857201	20	7 19.6	20.8
473989 2016 EC_{202}	17.0	X	228.15993	265.22840	359.42653	6.09370	0.0508578	0.21127897	2.7918915	20	1 1.2	21.2
473990 2016 EM_{202}	15.5	X	35.20412	4.12465	40.43050	13.99857	0.0363732	0.16909215	3.2388221	20	—	—
473991 2016 EU_{202}	16.0	X	286.45279	80.84993	90.53783	6.07774	0.1254166	0.18051975	3.1006511	20	—	—
473992 2016 FH_{17}	17.5	X	69.61383	58.71737	155.49518	5.48963	0.0810948	0.29421178	2.2388724	20	8 3.8	20.1
473993 2016 FT_{17}	16.2	X	263.29479	152.58063	59.05356	5.79991	0.0894290	0.18263606	3.0766519	20	—	—
473994 2016 FV_{19}	16.2	X	273.73778	354.44426	199.56690	15.84774	0.1815812	0.18117661	3.0931522	20	—	—
473995 2016 FX_{19}	16.5	X	260.13547	91.23223	111.79350	10.72374	0.1701220	0.17695991	3.1420961	20	—	—
473996 2016 FY_{19}	15.8	X	221.64186	174.64140	96.81532	10.69198	0.0271197	0.19629682	2.9322019	20	1 4.7	19.9
473997 2016 FH_{21}	17.5	X	20.68478	114.45503	126.29934	5.84330	0.1636475	0.27297214	2.3535522	20	7 3.5	19.4
473998 2016 FM_{23}	17.4	X	311.52152	83.89461	173.13876	5.42097	0.2037478	0.23491434	2.6013355	20	3 4.9	20.5
473999 2016 FW_{23}	17.3	X	298.01555	226.24137	41.67699	3.15687	0.1423704	0.23616775	2.5921233	20	3 12.2	20.6
474000 2016 FW_{32}	16.8	X	348.69452	285.70165	203.13919	10.16327	0.0610155	0.19204348	2.9753382	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
474001 2016 FN_{35}	16.7	X	286.87892	145.08863	51.79622	2.73095	0.2301319	0.18784470	3.0195119	20	—	—
474002 2016 FP_{35}	17.9	X	56.26468	135.26731	60.84277	2.24128	0.1467100	0.27300678	2.3533531	20	6 27.6	20.5
474003 2016 FU_{35}	18.1	X	22.86790	211.26812	354.80104	2.46694	0.1476668	0.25784793	2.4447077	20	5 9.2	20.4
474004 2016 FB_{41}	16.5	X	264.18968	164.83635	127.59813	13.19764	0.1746068	0.23030923	2.6358973	20	3 2.5	20.6
474005 2016 FE_{41}	16.3	X	283.76668	91.21139	159.26092	12.92353	0.1004122	0.21891497	2.7265852	20	2 6.9	20.2
474006 2016 FH_{41}	15.6	X	182.64620	295.67707	3.40142	9.41881	0.0811079	0.18448909	3.0560157	20	—	—
474007 2016 FB_{42}	16.5	X	3.88620	96.46977	53.83964	5.18970	0.0151792	0.21483594	2.7609895	20	1 29.1	20.2
474008 2016 FS_{46}	16.5	X	244.89957	99.25957	209.20379	7.99261	0.1364594	0.22732075	2.6589489	20	3 1.4	20.8
474009 2016 FJ_{50}	17.9	X	62.46821	6.88796	234.27631	4.33473	0.1370806	0.30318330	2.1944846	20	9 11.2	20.5
474010 2016 FP_{50}	16.1	X	264.73896	207.66026	345.08370	12.22791	0.0743727	0.17420270	3.1751638	20	—	—
474011 2016 FG_{52}	16.9	X	319.28293	64.40889	209.58504	11.41589	0.0790030	0.25583552	2.4575111	20	4 28.0	19.7
474012 2016 FB_{54}	16.5	X	324.70234	57.25634	156.76275	13.84745	0.0936013	0.22285729	2.6943344	20	2 14.0	19.9
474013 2016 FO_{54}	16.8	X	294.99727	158.94394	18.55226	19.75447	0.2308582	0.18526711	3.0474540	20	—	—
474014 2016 GO_{1}	17.6	X	41.75182	83.06574	108.35640	7.26735	0.1222999	0.26268609	2.4145970	20	5 23.6	20.1
474015 2016 GU_{3}	16.2	X	273.12073	94.59391	129.44257	10.88230	0.0458789	0.19690511	2.9261600	20	1 4.7	20.4
474016 2016 GB_{8}	15.6	X	224.21280	329.24828	251.57776	17.56248	0.0435941	0.17940702	3.1134586	20	—	—
474017 2016 GP_{10}	17.2	X	277.37634	94.97221	177.98655	8.62287	0.1601383	0.22106791	2.7088539	20	2 19.6	21.3
474018 2016 GO_{15}	17.7	X	6.53918	279.29283	333.29244	5.76093	0.1668004	0.27336162	2.3513161	20	6 21.5	19.5
474019 2016 GH_{28}	18.1	X	355.74033	56.94765	207.05729	2.75323	0.2155047	0.26816779	2.3815789	20	6 14.3	19.5
474020 2016 GU_{29}	17.9	X	19.97619	84.26432	153.74009	1.67469	0.1511980	0.27410559	2.3470596	20	6 25.9	19.9
474021 2016 GL_{48}	18.1	X	113.89081	163.16891	9.29797	2.32186	0.0845592	0.30061374	2.2069721	20	8 5.8	20.9
474022 2016 GD_{65}	16.1	X	14.21387	50.19316	35.78585	14.71020	0.2606410	0.19019156	2.9946211	20	—	—
474023 2016 GW_{110}	17.4	X	89.99183	140.96836	45.86728	6.82584	0.0464808	0.28755112	2.2733136	20	7 19.9	20.3
474024 2016 GM_{119}	17.2	X	15.24751	91.37785	86.86767	5.81032	0.1395401	0.23602446	2.5931723	20	3 18.3	19.8
474025 2016 GO_{125}	17.9	X	258.12178	94.82966	316.63782	3.84640	0.0104014	0.31448141	2.1416051	20	8 29.5	20.0
474026 2016 GX_{125}	16.5	X	329.08957	12.68305	203.68287	12.75727	0.2085233	0.22299885	2.6931940	20	2 3.0	20.0
474027 2016 GX_{131}	16.1	X	227.31988	116.54733	136.43903	16.31927	0.2331797	0.17619621	3.1511689	20	—	—
474028 2016 GD_{132}	17.2	X	7.85277	143.49960	119.88042	7.31742	0.0973117	0.28126959	2.3070351	20	7 7.7	19.4
474029 2016 GV_{132}	16.4	X	21.64381	30.84454	136.86519	15.46328	0.0453427	0.23515542	2.5995572	20	3 14.7	19.7
474030 2016 GD_{151}	15.8	X	180.88902	187.81040	155.71797	20.97826	0.1703366	0.17513221	3.1639190	20	2 20.7	21.1
474031 2016 GV_{161}	16.1	X	265.55429	72.68207	202.98461	12.41367	0.1628518	0.21527764	2.7572116	20	2 8.9	20.6
474032 2016 GX_{179}	17.1	X	9.83386	130.56598	93.11974	6.87379	0.0884901	0.25329539	2.4739136	20	5 11.6	19.7
474033 2016 GQ_{181}	16.3	X	227.52517	229.99998	97.90545	10.89677	0.2002028	0.21351648	2.7723525	20	3 13.7	21.1
474034 2016 GT_{185}	16.4	X	253.71269	77.75700	169.97983	11.86993	0.1674696	0.18290267	3.0736614	20	1 2.8	21.5
474035 2016 GW_{191}	16.2	X	225.37392	176.65769	202.46040	13.45756	0.2686137	0.22611725	2.6683753	20	5 4.4	20.8
474036 2016 GH_{208}	15.8	X	321.96694	44.44300	78.96646	11.68801	0.0692654	0.17730561	3.1380105	20	—	—
474037 2016 GX_{216}	17.8	X	21.75813	66.19827	151.69846	2.59638	0.1529609	0.26684866	2.3894211	20	5 28.1	19.8
474038 2016 GE_{217}	17.5	X	334.00436	137.96218	49.28669	10.11203	0.1625617	0.21798392	2.7343436	20	1 17.2	21.0
474039 2016 GT_{217}	17.0	X	326.23350	233.49230	27.92787	5.04176	0.1579761	0.25550714	2.4596163	20	4 9.4	19.6
474040 2016 GG_{218}	16.8	X	310.12031	162.64359	82.74443	12.21205	0.1303730	0.22572079	2.6714989	20	3 6.9	20.5
474041 2016 GL_{225}	16.9	X	304.32913	248.49061	24.22254	3.88679	0.2031805	0.23190847	2.6237652	20	3 17.7	20.3
474042 2016 GF_{237}	13.4	X	324.28354	309.23738	90.11872	15.42989	0.0306677	0.08017449	5.3265404	20	10 12.8	20.4
474043 2016 GJ_{237}	16.1	X	188.43971	252.26062	82.00941	14.74727	0.0891099	0.18315448	3.0708435	20	2 19.5	21.1
474044 2016 GG_{238}	16.5	X	323.24170	49.14957	148.47155	10.37910	0.0585923	0.19042889	2.9921325	20	2 1.1	20.5
474045 2016 GK_{238}	16.8	X	262.55388	175.93202	167.14089	10.99342	0.0994786	0.23667604	2.5884107	20	5 13.4	20.5
474046 2016 GV_{238}	17.8	X	77.05331	87.82757	83.69003	7.98018	0.1090843	0.25942674	2.4347791	20	6 16.2	20.8
474047 2016 GP_{242}	18.2	X	41.06970	294.96757	307.74013	1.11460	0.1710862	0.28544004	2.2845085	20	8 18.0	20.6
474048 2016 GU_{242}	16.3	X	249.25837	1.85563	219.83791	14.60331	0.2099272	0.17390578	3.1787768	20	—	—
474049 2016 GR_{243}	15.7	X	215.83879	327.09322	299.48982	4.24094	0.1073188	0.17803717	3.1294085	20	—	—
474050 2016 GL_{244}	15.3	X	251.85364	213.71360	5.16276	9.11572	0.0343212	0.17517264	3.1634322	20	—	—
474051 2016 GU_{246}	16.5	X	328.92945	348.61466	222.66058	8.76909	0.1345803	0.21987795	2.7186185	20	2 8.3	20.1
474052 2016 GJ_{249}	17.3	X	337.95594	35.70258	193.42689	2.63299	0.1897035	0.23395281	2.6084581	20	3 11.1	20.1
474053 2016 GW_{250}	17.1	X	320.97144	267.92669	316.32514	2.54520	0.0601405	0.22321389	2.6914639	20	2 27.1	20.6
474054 2016 HE_{1}	17.3	X	359.71061	55.38027	205.64310	7.29534	0.0963988	0.26775479	2.3840273	20	6 17.3	19.8
474055 2016 HS_{1}	17.4	X	2.49673	34.89499	220.24407	5.48208	0.0920980	0.26614352	2.3936397	20	6 13.4	19.8
474056 2016 HJ_{6}	16.4	X	274.56081	244.79115	66.48986	12.99440	0.1797060	0.23259581	2.6185937	20	4 8.9	20.4
474057 2016 HF_{8}	17.4	X	26.02249	55.26188	170.35698	1.44484	0.1429217	0.26215342	2.4178668	20	6 16.9	19.7
474058 2016 HL_{16}	18.0	X	87.26598	110.74067	65.04992	2.84484	0.1574831	0.27824801	2.3237069	20	7 15.2	21.0
474059 2016 HY_{16}	16.6	X	282.64942	133.93186	63.11994	13.72993	0.1149671	0.17679411	3.1440602	20	—	—
474060 2016 HB_{21}	18.2	X	87.91830	198.89934	16.54579	3.39828	0.1061499	0.29891560	2.2153227	20	9 6.1	21.0
474061 2016 HE_{21}	17.7	X	17.86260	271.62728	319.07655	1.56261	0.1557976	0.25985607	2.4320965	20	6 8.9	19.9
474062 2016 HU_{23}	16.3	X	236.59024	190.89154	52.64220	7.06062	0.1310140	0.17091571	3.2157434	20	—	—
474063 2016 JH_{3}	16.2	X	5.63342	179.53024	38.37988	14.16414	0.1180794	0.23983085	2.5656615	20	4 24.4	18.7
474064 2016 JM_{7}	16.6	X	349.76445	339.77051	225.93696	14.02049	0.0359590	0.22588556	2.6701997	20	3 11.9	20.4
474065 2016 JJ_{10}	16.7	X	46.71614	22.46834	94.45053	9.69890	0.0639348	0.20217974	2.8750426	20	2 18.2	20.5
474066 2016 JV_{11}	16.7	X	355.70155	311.36897	202.03435	11.15751	0.1635455	0.21232301	2.7827318	20	1 4.8	20.1
474067 2016 JB_{12}	18.5	X	8.65962	8.44684	69.82161	23.39273	0.0812880	0.39210645	1.8487012	20	—	—
474068 2016 JC_{16}	17.7	X	295.17530	269.00056	74.42765	2.50185	0.1971592	0.26318969	2.4115159	20	6 9.9	20.5
474069 2016 JV_{18}	17.3	X	252.10861	255.07240	86.63084	4.42005	0.1667303	0.23887872	2.5724745	20	4 20.2	21.2
474070 2016 JP_{20}	17.8	X	350.37821	70.91664	209.91120	1.86939	0.1364505	0.26529381	2.3987481	20	6 30.2	19.7
474071 2016 JQ_{22}	17.4	X	292.62857	213.61271	88.54399	1.76190	0.1562988	0.23495100	2.6010649	20	4 16.9	20.7
474072 2016 JD_{23}	16.8	X	332.16910	1.62917	199.42781	4.26461	0.0453198	0.20885352	2.8134650	20	2 15.4	20.5
474073 2016 JF_{25}	17.0	X	278.96227	305.03132	350.89428	2.20164	0.0534396	0.22977205	2.6400040	20	4 5.2	20.5
474074 2016 JO_{29}	16.5	X	343.76676	332.04137	245.67231	12.61251	0.1776273	0.23278784	2.6171535	20	2 29.9	19.7
474075 2016 JS_{29}	17.5	X	37.10351	48.20396	207.68277	5.99078	0.1567348	0.28570837	2.2830780	20	8 26.6	20.0
474076 2016 JN_{32}	17.2	X	357.75609	37.91095	195.65040	5.02353	0.1926420	0.23773311	2.5807321	20	4 29.8	19.4
474077 2016 JP_{32}	16.5	X	294.83133	214.96205	104.26585	15.03973	0.2701825	0.22991394	2.6389177	20	5 1.6	20.3
474078 2016 JZ_{34}	17.4	X	49.58475	252.09731	87.33652	23.60300	0.0831897	0.35667906	1.9691750	20	—	—
474079 2016 JG_{35}	16.3	X	327.75888	95.78689	123.25849	25.54303	0.1195558	0.21316241	2.7754216	20	2 27.2	20.0
474080 2016 JH_{35}	16.1	X	92.98086	318.14273	273.76803	23.89195	0.2419949	0.28841889	2.2687514	20	10 2.5	20.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
474081 2016 JN_{35}	17.4	X	0.57853	200.62589	97.48433	4.73816	0.1717226	0.27723523	2.3293626	20	8 28.5	19.3
474082 2016 JW_{35}	16.4	X	308.12272	77.81439	226.99923	11.82803	0.1821892	0.24161400	2.5530225	20	5 8.3	19.3
474083 2016 JZ_{35}	16.9	X	307.71958	136.33356	169.32130	7.66773	0.2025141	0.24146785	2.5540526	20	5 7.7	19.9
474084 2016 JD_{36}	16.5	X	344.93831	88.72675	106.92184	11.90268	0.1396028	0.21435865	2.7650864	20	2 19.6	19.8
474085 2016 JE_{36}	16.9	X	304.38450	106.66593	146.29126	8.11977	0.1755782	0.21477045	2.7615508	20	2 26.9	20.6
474086 2016 JM_{36}	16.5	X	298.20092	20.75596	238.85277	11.60182	0.1441369	0.22211319	2.7003485	20	2 25.1	20.5
474087 2016 JS_{36}	17.0	X	344.28807	88.57679	126.47001	7.15823	0.1603713	0.22727313	2.6593203	20	3 10.9	19.9
474088 2016 KB_{2}	16.4	X	297.06707	213.28979	83.64599	12.74143	0.0597048	0.23386269	2.6091282	20	5 5.1	19.9
474089 2016 KE_{2}	17.1	X	339.55383	33.48901	224.07582	13.40546	0.1613677	0.23897776	2.5717637	20	4 28.7	19.7
474090 2016 KF_{2}	16.7	X	307.02845	210.69845	84.04211	13.00663	0.1473036	0.23668537	2.5883426	20	5 3.3	20.0
474091 2016 KG_{2}	16.5	X	252.72099	181.32193	76.78626	14.38615	0.1727795	0.18111057	3.0939041	20	1 14.9	21.6
474092 2016 KP_{2}	16.6	X	259.93407	204.47188	107.23176	8.88936	0.2098843	0.20922226	2.8101584	20	3 21.5	21.2
474093 2016 KY_{3}	16.9	X	320.57813	83.24067	212.06965	11.20991	0.1863933	0.23983393	2.5656395	20	5 16.6	19.6
474094 2016 LB_{4}	17.0	X	292.38550	60.47911	101.02528	22.99458	0.3812986	0.18515169	3.0487203	20	—	—
474095 2016 LE_{4}	17.0	X	309.37444	51.52498	229.32429	10.14264	0.1523536	0.22929233	2.6436850	20	4 9.9	20.4
474096 2016 LR_{6}	17.3	X	296.31472	126.85511	184.71776	12.25512	0.2986685	0.22822351	2.6519325	20	4 13.5	20.8
474097 2016 LA_{7}	16.3	X	224.70305	179.77290	141.89491	12.01874	0.0880111	0.19791052	2.9162413	20	3 7.2	20.7
474098 2016 LE_{7}	16.6	X	231.42873	173.46709	116.24198	14.62225	0.1791825	0.17845833	3.1244830	20	2 1.5	21.7
474099 2016 LR_{7}	16.7	X	299.92664	45.49521	181.69419	12.54552	0.0483414	0.19007876	2.9958058	20	2 7.6	21.1
474100 2016 LX_{7}	17.2	X	279.23341	227.82610	122.56994	14.58763	0.2023570	0.24361576	2.5390181	20	5 30.3	20.9
474101 2016 LE_{12}	17.5	X	343.74692	135.97322	174.97660	6.32027	0.1522300	0.26625889	2.3929482	20	8 3.2	19.5
474102 2016 LL_{12}	15.4	X	164.84431	259.23844	102.76175	13.09212	0.1524899	0.17851443	3.1238284	20	3 2.9	20.6
474103 2016 LH_{13}	17.7	X	359.00542	129.23819	145.57194	5.44226	0.1210799	0.25740784	2.4474934	20	7 7.7	20.1
474104 2016 LB_{18}	16.5	X	178.54246	175.72016	160.80043	13.72291	0.1284284	0.17203382	3.2017948	20	2 8.9	21.7
474105 2016 LP_{19}	17.6	X	349.46775	209.97064	138.23655	9.75963	0.1471483	0.29499096	2.2349282	20	10 29.9	19.7
474106 2016 LZ_{23}	16.5	X	231.50011	200.86165	130.21948	6.06348	0.0891103	0.20960082	2.8067737	20	3 25.3	20.7
474107 2016 LC_{24}	16.0	X	202.04290	164.87102	141.18573	6.27682	0.1411175	0.17001726	3.2270625	20	1 27.1	21.2
474108 2016 LS_{25}	15.8	X	148.51166	288.35140	78.60647	21.21814	0.1193653	0.17625237	3.1504995	20	2 23.8	21.0
474109 2016 LB_{28}	17.3	X	197.23756	329.05565	137.64061	6.87559	0.0499652	0.28694324	2.2765231	20	8 15.2	20.2
474110 2016 LL_{28}	16.2	X	319.92328	294.11667	229.43501	25.07875	0.1991772	0.17506276	3.1647558	20	—	—
474111 2016 LB_{30}	17.0	X	281.55545	155.14430	186.79277	7.15057	0.1751396	0.24171324	2.5523238	20	5 23.5	20.4
474112 2016 LC_{30}	17.8	X	56.40919	155.33385	116.56410	6.39733	0.1328388	0.29647605	2.2274586	20	10 20.9	20.6
474113 2016 LX_{31}	16.4	X	295.60345	56.29801	226.55603	10.45951	0.1437666	0.21856987	2.7294545	20	3 25.5	20.2
474114 2016 LD_{41}	15.9	X	190.23405	234.33231	109.07669	13.18476	0.0757029	0.18836206	3.0139805	20	3 1.2	20.6
474115 2016 LW_{41}	16.2	X	147.84133	273.40863	101.22290	11.26140	0.0590790	0.18436436	3.0573940	20	2 21.2	20.8
474116 2016 LR_{43}	15.7	X	183.84502	266.72644	74.27153	13.44550	0.0815189	0.18583158	3.0412798	20	2 22.9	20.6
474117 2016 LS_{47}	15.8	X	188.60697	163.07078	164.26350	18.82950	0.1684816	0.17430408	3.1739325	20	2 7.5	21.2
474118 2016 LP_{50}	17.1	X	13.69069	343.87813	204.57279	9.13310	0.1621496	0.22157046	2.7047563	20	3 26.9	19.8
474119 2016 LT_{50}	16.5	X	354.00828	53.34405	234.10927	12.46751	0.1482299	0.23622635	2.5916946	20	7 13.1	19.3
474120 4504 $P\text{–}L$	16.4	X	260.78280	338.29242	0.78435	10.95887	0.2428843	0.17798525	3.1300171	20	4 15.5	21.4
474121 1993 TC_{8}	17.3	X	290.93179	127.54592	242.32221	3.83019	0.1226017	0.21363628	2.7713160	20	7 20.6	20.7
474122 1994 RP_{24}	17.3	X	320.75794	19.93473	318.49350	5.65599	0.2960427	0.22548333	2.6733742	20	7 4.3	19.5
474123 1995 BL_{14}	17.3	X	245.61945	139.46261	306.20927	7.42712	0.2751067	0.21804415	2.7338400	20	8 10.3	21.4
474124 1995 MR_{4}	17.8	X	359.30411	103.05442	228.74357	4.86949	0.2535781	0.23948781	2.5681109	20	10 18.1	19.8
474125 1995 QL_{8}	16.7	X	288.07343	42.09326	299.38903	9.88085	0.0834705	0.19264276	2.9691645	20	6 13.9	20.8
474126 1995 QG_{13}	17.2	X	238.58345	130.37831	229.45766	9.43034	0.1193827	0.18783235	3.0196443	20	5 3.2	21.7
474127 1995 QP_{13}	16.5	X	330.68417	34.26245	255.21422	8.63815	0.0918754	0.19116376	2.9844593	20	6 6.4	20.2
474128 1995 SV_{28}	17.5	X	331.81458	38.46153	345.96939	2.69602	0.1528287	0.23958784	2.5673960	20	10 27.4	20.0
474129 1995 SM_{30}	17.6	X	296.02343	100.10330	347.97237	32.62240	0.4348973	0.23828307	2.5767597	20	9 21.3	19.8
474130 1995 SA_{41}	16.7	X	212.75621	68.13317	22.29893	9.28037	0.1155297	0.19038400	2.9926028	20	8 1.4	21.4
474131 1995 SO_{44}	18.7	X	330.26409	66.96245	357.76356	1.51080	0.1513703	0.28062954	2.3105416	20	—	—
474132 1995 SA_{45}	17.5	X	310.02883	197.39723	193.47581	4.93710	0.2422412	0.23500266	2.6006837	20	9 10.3	19.6
474133 1995 SN_{61}	18.6	X	3.23801	270.85769	138.77629	2.52464	0.2183382	0.28300643	2.2975864	20	—	—
474134 1995 SW_{63}	16.6	X	155.22459	84.53196	15.38701	9.99144	0.0727946	0.18597478	3.0397184	20	6 9.5	21.4
474135 1995 SX_{73}	17.8	X	244.63588	64.20495	3.36526	2.08193	0.1981211	0.23059844	2.6336930	20	7 28.4	21.7
474136 1995 SC_{75}	17.8	X	307.24374	312.15801	67.45574	3.00368	0.0752843	0.23483016	2.6019571	20	9 10.1	20.8
474137 1995 TZ_{8}	18.8	X	47.83240	150.65948	166.95388	3.88935	0.1722352	0.28237653	2.3010019	20	12 10.4	21.9
474138 1995 TF_{10}	17.4	X	163.78952	75.51818	10.09525	11.99266	0.1877573	0.18306980	3.0717904	20	6 3.2	22.7
474139 1995 UH_{31}	17.6	X	287.32035	4.23600	20.92092	8.01729	0.1941159	0.23200381	2.6230464	20	7 30.5	20.8
474140 1995 UQ_{52}	16.4	X	222.02419	340.96163	20.11587	16.27875	0.0922076	0.18302118	3.0723344	20	4 18.3	21.2
474141 1995 XF_{4}	17.1	X	240.80607	225.66914	149.58399	3.76413	0.2733026	0.18479002	3.0526971	20	5 12.4	22.2
474142 1996 XK_{35}	18.0	X	303.58659	66.43659	58.88767	7.47864	0.0533048	0.29382506	2.2408365	20	—	—
474143 1997 MX_{6}	17.6	X	160.62548	130.17709	240.85943	23.89564	0.1340951	0.37468357	1.9055760	20	2 1.1	20.6
474144 1997 UA	17.2	X	330.14868	353.80589	17.59269	15.44957	0.1781440	0.25730847	2.4481235	20	10 10.8	19.0
474145 1998 RD_{10}	18.1	X	282.16420	94.20547	349.92960	2.81380	0.2597368	0.27050991	2.3678123	20	10 8.8	19.9
474146 1998 RF_{13}	18.5	X	348.99825	212.39851	174.15740	2.15075	0.1989268	0.27290784	2.3539219	20	12 22.5	20.6
474147 1998 RF_{14}	18.1	X	37.27709	149.88674	170.53903	2.29820	0.2253188	0.27527840	2.3403885	20	12 7.3	21.1
474148 1998 SA_{16}	17.8	X	331.34243	170.23677	177.18351	6.30576	0.0717844	0.22260146	2.6963983	20	8 30.2	20.9
474149 1998 SW_{16}	17.9	X	297.84526	69.33832	25.10866	2.21778	0.1495101	0.27413670	2.3468820	20	12 15.6	19.9
474150 1998 SQ_{34}	16.6	X	323.32000	316.83307	11.47419	14.64617	0.2543961	0.21992019	2.7182704	20	7 2.0	19.5
474151 1998 SC_{151}	17.2	X	264.30788	18.34945	355.73709	3.27124	0.2970925	0.21581474	2.7526351	20	5 27.2	21.5
474152 1998 SD_{174}	17.7	X	248.30735	20.73633	6.73091	3.71605	0.2100299	0.21522968	2.7576212	20	6 7.2	22.0
474153 1998 TD_{20}	16.9	X	291.02518	323.97754	27.27017	13.35144	0.1159532	0.21511417	2.7586083	20	6 26.9	20.7
474154 1998 UU_{50}	18.0	X	358.63431	341.02547	49.88505	8.64688	0.1040307	0.27292225	2.3538390	20	12 29.9	20.7
474155 1998 WC_{36}	18.4	X	347.46401	344.18954	55.64569	3.76552	0.2038190	0.27246465	2.3564737	20	—	—
474156 1998 XQ_{16}	18.1	X	300.48766	152.06593	315.06979	9.04462	0.4316151	0.26966510	2.3727550	20	—	—
474157 1998 XL_{25}	17.1	X	258.07358	167.63334	235.81035	6.99868	0.2169133	0.21444846	2.7643143	20	7 6.9	21.3
474158 1999 FA	20.7	X	36.72300	296.98010	166.09563	12.02844	0.1327880	0.88029024	1.0782483	20	—	—
474159 1999 RJ	16.2	X	282.97497	28.58525	307.89668	15.48427	0.1959195	0.17899599	3.1182231	20	5 9.9	21.0
474160 1999 RH_{5}	16.2	X	221.68614	15.98881	341.44841	10.42299	0.1407962	0.17327524	3.1864838	20	4 8.9	21.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
474161 1999 RH_{114}	16.6	X	328.49045	142.33406	186.51048	11.75571	0.2639556	0.23260477	2.6185265	20	7 12.1	18.9
474162 1999 RQ_{128}	16.9	X	342.97807	42.02280	298.08574	3.89542	0.3309904	0.23569194	2.5956108	20	9 21.8	18.0
474163 1999 SO_{5}	20.9	X	261.24100	359.67009	196.07798	13.36498	0.0652415	0.87099867	1.0859031	20	—	—
474164 1999 TU_{53}	17.4	X	303.00256	10.35687	4.46616	5.46442	0.2068162	0.23034328	2.6356375	20	8 8.9	20.2
474165 1999 TU_{61}	17.9	X	334.67412	117.88670	220.78811	1.09150	0.3393865	0.23208690	2.6224203	20	8 13.9	18.9
474166 1999 TE_{65}	18.7	X	51.74951	157.00147	194.02730	1.16381	0.1915004	0.29222802	2.2489932	20	—	—
474167 1999 TO_{68}	16.7	X	303.96359	25.23377	358.36819	13.40586	0.1966194	0.23293026	2.6160865	20	8 28.5	19.4
474168 1999 TD_{80}	16.1	X	159.16185	86.67313	23.58405	11.22496	0.0844847	0.17506032	3.1647851	20	6 28.6	21.1
474169 1999 TT_{87}	17.5	X	244.14390	20.14520	65.79066	7.55867	0.1821642	0.22745242	2.6579227	20	8 25.9	21.4
474170 1999 TE_{167}	17.0	X	329.06085	34.13462	332.26998	3.91311	0.2073405	0.23383380	2.6093431	20	9 21.6	19.0
474171 1999 TY_{193}	17.4	X	277.05700	86.78195	17.10963	7.12577	0.4284014	0.23251503	2.6192002	20	9 21.1	20.4
474172 1999 TL_{226}	18.6	X	77.19864	9.76012	324.12976	0.94999	0.1495737	0.29369654	2.2414901	20	—	—
474173 1999 TT_{262}	16.8	X	249.07014	158.92617	210.60756	14.75624	0.2852287	0.17501987	3.1652727	20	5 11.3	22.0
474174 1999 TV_{299}	16.3	X	236.53151	358.48375	37.81857	10.79533	0.0797945	0.17390073	3.1788383	20	6 19.1	21.2
474175 1999 TG_{304}	16.6	X	278.75542	352.36326	4.79492	9.71456	0.1085484	0.17702954	3.1412721	20	6 17.1	21.1
474176 1999 UW_{18}	18.4	X	5.46508	6.49032	34.91150	3.84535	0.1582071	0.28881178	2.2666934	20	—	—
474177 1999 US_{36}	17.5	X	270.67620	247.42885	194.80791	8.21672	0.1911283	0.23497063	2.6009200	20	9 19.7	20.5
474178 1999 UC_{41}	17.9	X	57.92023	316.72561	28.01528	7.72425	0.2297286	0.29169665	2.2517236	20	—	—
474179 1999 VS_{6}	19.0	X	185.79933	89.32871	35.30428	27.97013	0.2230889	0.75180429	1.1978419	20	11 4.1	16.2
474180 1999 VA_{76}	16.1	X	173.76151	54.45304	58.77514	12.75827	0.0855221	0.17319785	3.1874329	20	7 19.0	21.2
474181 1999 VP_{79}	17.3	X	347.41544	113.74975	219.50962	28.15477	0.3798377	0.23383567	2.6093292	20	9 30.6	18.9
474182 1999 VK_{118}	16.4	X	244.58174	179.20247	228.03635	17.14856	0.0238162	0.17528583	3.1620702	20	7 15.9	21.2
474183 1999 VD_{136}	17.2	X	298.22385	157.90014	228.15594	13.41799	0.2564472	0.22940015	2.6428565	20	7 30.8	20.3
474184 1999 VH_{158}	17.4	X	284.06328	174.29275	233.29275	13.23235	0.2425336	0.22935038	2.6432388	20	8 8.4	21.0
474185 1999 VP_{175}	18.5	X	31.18764	339.32425	10.43976	2.97854	0.2361431	0.28777433	2.2721379	20	—	—
474186 1999 VO_{179}	16.8	X	298.58147	202.16527	194.24320	13.69195	0.2647694	0.23034730	2.6356069	20	8 16.3	19.8
474187 1999 VS_{222}	17.6	X	305.31935	175.87100	219.20987	6.08173	0.2294546	0.23092936	2.6311763	20	9 5.2	20.2
474188 1999 VL_{226}	17.5	X	333.32705	283.82097	113.05584	6.86233	0.3533247	0.23516667	2.5994744	20	12 9.0	18.7
474189 1999 XW_{8}	16.2	X	313.49610	285.36446	70.72374	28.75969	0.4125746	0.23050259	2.6344230	20	6 16.7	18.8
474190 1999 XX_{14}	16.9	X	325.85799	51.10295	87.56447	24.82956	0.3331181	0.28863364	2.2676259	20	—	—
474191 1999 XN_{238}	17.1	X	316.22066	111.06111	274.81399	5.21992	0.3239421	0.23255558	2.6188957	20	9 3.5	18.8
474192 1999 YS_{18}	17.9	X	274.37190	309.64170	114.38754	2.80329	0.2170183	0.22557164	2.6726765	20	8 27.4	21.3
474193 1999 YN_{25}	17.1	X	225.63406	179.61131	267.56609	9.35287	0.3240739	0.22277582	2.6949912	20	7 20.6	21.8
474194 2000 AA_{131}	16.9	X	234.52070	29.57000	118.25701	10.52637	0.3259478	0.22753328	2.6572929	20	10 17.1	21.3
474195 2000 AU_{216}	16.7	X	296.91306	162.45520	258.44614	12.03335	0.2276388	0.23183635	2.6243093	20	9 22.9	19.6
474196 2000 AH_{221}	17.9	X	290.03923	329.61195	88.98681	3.45456	0.1692025	0.22696827	2.6617011	20	9 23.7	20.8
474197 2000 BR_{9}	18.7	X	355.64406	295.58867	140.38947	2.18004	0.1932935	0.28508512	2.2864042	20	—	—
474198 2000 CH_{55}	16.7	X	224.66892	117.27383	357.68845	12.84098	0.2158990	0.22273919	2.6952866	20	9 5.6	21.0
474199 2000 CA_{141}	17.7	X	359.51560	59.88823	311.31347	6.46891	0.1208588	0.27688836	2.3313076	20	12 6.7	20.3
474200 2000 DT_{17}	16.5	X	168.98493	172.50425	347.22785	17.43003	0.1887001	0.21665701	2.7454964	20	9 9.9	21.0
474201 2000 HV_{27}	16.3	X	251.45031	300.01891	229.02426	21.80700	0.2257873	0.27513956	2.3411758	20	12 22.6	19.1
474202 2000 KO_{6}	18.0	X	114.65072	78.35898	215.43703	4.38119	0.3434716	0.31442060	2.1418813	20	—	—
474203 2000 QR_{199}	18.2	X	83.68511	200.00065	148.41005	3.54864	0.2490368	0.31179565	2.1538858	20	—	—
474204 2000 QE_{203}	18.4	X	84.19710	162.79984	146.19349	6.07065	0.3123956	0.30881733	2.1677121	20	—	—
474205 2000 SJ_{35}	18.6	X	109.89721	173.64658	149.95711	2.94837	0.2491871	0.31264605	2.1499783	20	—	—
474206 2000 SK_{95}	16.6	X	249.48832	151.54419	234.29231	6.47374	0.2642205	0.18640688	3.0350190	20	6 1.3	21.4
474207 2000 SR_{159}	17.1	X	198.65056	12.90141	45.98287	2.23862	0.1648998	0.18182595	3.0857836	20	6 3.2	22.1
474208 2000 SJ_{298}	18.3	X	70.72214	133.18559	223.49299	5.20596	0.2068940	0.30934026	2.1652685	20	—	—
474209 2000 SE_{302}	16.4	X	236.49519	340.86978	13.26035	17.84721	0.2923462	0.18167402	3.0875038	20	4 10.2	21.9
474210 2000 SW_{309}	16.0	X	228.19130	152.28282	254.11058	22.29789	0.2685531	0.18367345	3.0650564	20	6 7.6	21.3
474211 2000 SO_{320}	17.6	X	315.20411	336.91307	72.09083	4.08431	0.1660397	0.24742653	2.5128807	20	11 3.4	19.8
474212 2000 SH_{344}	18.4	X	298.23464	343.66205	89.95133	6.44078	0.3182220	0.24121294	2.5558517	20	10 14.9	20.3
474213 2000 TT_{6}	17.0	X	259.60968	206.49518	191.27673	2.35899	0.2254672	0.18797469	3.0181198	20	6 30.1	21.4
474214 2000 UA_{16}	16.1	X	224.95667	341.21742	53.79811	17.92899	0.2819780	0.18188114	3.0851593	20	5 20.9	21.6
474215 2000 UD_{30}	17.3	X	29.53105	63.61840	32.79431	20.52247	0.1075094	0.36399222	1.9427100	20	—	—
474216 2000 UF_{56}	15.6	X	256.68068	309.47859	67.85689	21.69733	0.3517286	0.18399778	3.0614534	20	5 21.4	20.7
474217 2000 UO_{70}	16.9	X	16.33043	120.65906	255.66121	3.13523	0.2622960	0.25186745	2.4832552	20	—	—
474218 2000 UW_{96}	15.8	X	224.68522	4.82777	34.66765	17.87403	0.1953047	0.18152599	3.0891821	20	5 28.7	21.1
474219 2000 VT_{64}	17.4	X	296.60134	126.08967	286.03891	3.65346	0.2425052	0.24355707	2.5394259	20	9 14.0	19.8
474220 2000 WM_{113}	15.9	X	172.26431	187.12657	262.59715	14.89597	0.2340308	0.17624743	3.1505583	20	6 17.7	21.4
474221 2001 AX_{35}	16.4	X	183.33584	64.27485	65.22867	8.15792	0.2800613	0.18039919	3.1020323	20	8 14.7	22.0
474222 2001 BO_{56}	16.1	X	170.68406	132.35232	306.93724	15.47491	0.1885868	0.17257904	3.1950478	20	6 2.9	21.6
474223 2001 CC_{32}	18.9	X	18.90571	251.98539	318.22606	39.97326	0.3474518	0.46772564	1.6436472	20	2 12.8*	17.7
474224 2001 CR_{36}	17.1	X	149.69223	225.44889	306.94925	12.55432	0.1917575	0.23018607	2.6368374	20	9 5.3	21.7
474225 2001 DB_{4}	16.8	X	325.98685	76.99300	334.33515	26.03085	0.3785909	0.24362169	2.5389769	20	12 22.7	18.8
474226 2001 DQ_{6}	17.0	X	261.02603	185.12327	335.90956	22.97164	0.2480445	0.29311530	2.2444524	20	—	—
474227 2001 DS_{89}	16.0	X	203.09132	163.53288	306.77717	24.27523	0.1701541	0.22941281	2.6427593	20	8 8.7	20.4
474228 2001 DK_{108}	16.3	X	241.13231	129.63376	347.53765	31.94906	0.1789502	0.23409133	2.6074290	20	9 21.2	20.2
474229 2001 FR_{107}	17.4	X	239.00969	187.13007	335.28601	6.77669	0.1517259	0.28993366	2.2608424	20	12 12.9	20.0
474230 2001 FF_{220}	18.2	X	102.37352	71.03478	189.85275	3.90418	0.1697769	0.27988370	2.3146446	20	11 22.9	21.8
474231 2001 HZ_{7}	20.0	X	307.20281	312.85951	156.30235	5.42530	0.4986860	0.55335504	1.4693778	20	—	—
474232 2001 PO_{53}	17.9	X	9.75834	262.92065	76.52331	5.67597	0.2465363	0.26521511	2.3992226	20	11 26.6	20.4
474233 2001 QV_{122}	17.5	X	32.88435	206.81232	130.05624	8.47257	0.2432489	0.26809509	2.3820094	20	12 24.2	20.8
474234 2001 QM_{123}	17.4	X	8.27407	334.91472	13.98170	3.72146	0.2243878	0.26556740	2.3971003	20	12 2.7	19.9
474235 2001 QC_{207}	17.9	X	34.01710	20.12973	314.19069	1.68531	0.2379726	0.26783742	2.3835369	20	12 21.2	21.0
474236 2001 QW_{317}	17.9	X	335.26228	31.77370	335.60318	3.90699	0.1985127	0.26283849	2.4136636	20	10 17.4	19.8
474237 2001 RN_{13}	18.2	X	6.46753	47.08812	299.41821	2.91845	0.2146341	0.26377663	2.4079373	20	11 24.2	20.7
474238 2001 RU_{17}	21.5	X	206.22018	330.30948	170.69017	13.88176	0.2409356	1.05005514	0.9586527	20	—	—
474239 2001 RH_{30}	17.9	X	44.37427	312.19211	3.92115	4.68091	0.2116308	0.26696814	2.3887081	20	12 5.1	21.3
474240 2001 RK_{89}	17.6	X	341.95474	243.83104	169.43453	8.35035	0.2893316	0.26534758	2.3984240	20	—	—

* The additional opposition: 7 23.3, $V = 19.6$

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
474241 2001 RX_{112}	18.5	X	18.48688	47.79564	292.89320	0.34527	0.1980879	0.26529483	2.3987419	20	12 3.1	21.2
474242 2001 RJ_{131}	17.4	X	0.28106	32.18099	12.86841	6.60243	0.1125499	0.26931120	2.3748332	20	—	—
474243 2001 ST_{5}	18.0	X	127.48031	6.71882	5.34284	21.43519	0.0555749	0.38909071	1.8582415	20	—	—
474244 2001 ST_{16}	17.9	X	354.90722	274.95550	107.86875	1.89372	0.2348893	0.26487027	2.4013045	20	12 30.8	20.1
474245 2001 SY_{17}	18.1	X	16.13740	218.58970	142.03160	3.18224	0.2154863	0.26603514	2.3942898	20	12 29.6	20.9
474246 2001 SK_{27}	18.2	X	14.92083	213.34871	147.19311	1.29556	0.2453871	0.26548600	2.3975903	20	—	—
474247 2001 SH_{61}	16.9	X	324.74514	180.72277	194.02146	8.59579	0.2834110	0.25806032	2.4433662	20	9 30.8	17.8
474248 2001 SR_{103}	16.7	X	202.80074	47.33179	355.48602	5.18966	0.1727849	0.19223104	2.9734025	20	5 16.7	21.7
474249 2001 SU_{113}	18.6	X	201.40106	149.79404	189.24311	20.98261	0.0949739	0.39558209	1.8378566	20	2 5.1	21.2
474250 2001 SC_{130}	17.7	X	340.36946	211.67623	191.10690	4.88468	0.2246690	0.26480832	2.4016790	20	12 30.3	19.8
474251 2001 SL_{156}	17.6	X	355.35942	26.38448	307.31175	4.46133	0.2814811	0.26100326	2.4249648	20	10 22.2	19.4
474252 2001 SO_{196}	18.3	X	7.35577	206.25460	167.42850	2.42765	0.1531220	0.26653676	2.3912848	20	12 24.9	21.0
474253 2001 SH_{217}	18.1	X	320.00805	219.60731	179.31368	2.10140	0.2120007	0.26132933	2.4229472	20	11 2.7	19.7
474254 2001 SE_{231}	18.2	X	355.88786	324.46618	44.53808	3.38486	0.2219586	0.26290617	2.4132493	20	12 9.3	20.4
474255 2001 ST_{244}	17.3	X	298.85640	46.78261	28.94448	6.01333	0.2404527	0.26107126	2.4245437	20	11 4.5	19.0
474256 2001 SK_{255}	17.5	X	24.02826	310.63641	22.61652	11.96618	0.2077655	0.26305864	2.4123168	20	11 29.0	20.6
474257 2001 SR_{275}	17.9	X	333.11557	202.01392	180.63553	6.42926	0.1201448	0.26164705	2.4209853	20	11 4.3	20.3
474258 2001 SG_{285}	18.1	X	350.13319	33.62174	7.68410	5.04845	0.2205115	0.26469014	2.4023939	20	—	—
474259 2001 SV_{307}	18.1	X	33.25340	294.97195	32.97028	1.89798	0.2139411	0.26541383	2.3980248	20	12 8.0	21.0
474260 2001 SA_{321}	17.2	X	271.42459	319.72266	72.88984	0.77751	0.2098875	0.20032084	2.8928015	20	7 10.2	21.0
474261 2001 SQ_{326}	18.2	X	19.72556	84.25932	256.18056	1.79375	0.2407667	0.26555792	2.3971573	20	12 11.5	21.0
474262 2001 SC_{331}	18.4	X	288.83070	52.48438	343.69381	1.81222	0.1849764	0.25695844	2.4503463	20	8 20.1	20.7
474263 2001 TO_{46}	16.9	X	345.74675	304.00316	138.62732	23.15823	0.3612243	0.26573468	2.3960942	20	—	—
474264 2001 TV_{84}	18.3	X	2.11821	319.41046	33.59882	3.63468	0.2352610	0.26217270	2.4177482	20	11 29.1	20.5
474265 2001 TV_{112}	16.5	X	212.28332	183.58518	224.65859	11.02696	0.2080001	0.19149334	2.9810340	20	5 31.8	21.5
474266 2001 TL_{120}	16.9	X	236.17565	123.35573	296.89017	10.34137	0.2808970	0.19491802	2.9460134	20	6 30.8	21.8
474267 2001 TY_{155}	17.3	X	288.59875	178.84306	191.37598	5.63750	0.1363135	0.20037829	2.8922485	20	7 14.2	21.1
474268 2001 TK_{157}	18.0	X	311.01247	233.35522	195.47111	4.50489	0.2149692	0.26056751	2.4276675	20	11 28.9	19.6
474269 2001 TT_{160}	16.4	X	124.33112	251.72022	222.54169	11.87823	0.1776940	0.18467295	3.0539870	20	6 4.7	21.3
474270 2001 TQ_{179}	16.8	X	274.29891	7.81148	8.38112	6.61156	0.2296273	0.19784654	2.9168701	20	6 18.9	21.1
474271 2001 TS_{183}	17.6	X	277.69367	152.90121	208.26305	15.02910	0.2437360	0.19733744	2.9218846	20	6 2.3	21.9
474272 2001 TR_{188}	17.8	X	18.40960	17.70252	336.98921	2.30980	0.2489975	0.26363568	2.4087955	20	12 29.5	20.7
474273 2001 TT_{193}	17.9	X	315.29476	177.90779	214.11620	4.63899	0.2245953	0.25901668	2.4373481	20	10 5.8	19.6
474274 2001 TY_{207}	18.6	X	339.39552	242.68263	157.93842	1.45192	0.1787912	0.26371626	2.4083047	20	12 18.3	20.6
474275 2001 TL_{251}	18.2	X	263.04277	223.49423	170.51543	6.78684	0.2235493	0.19837411	2.9116962	20	6 29.5	22.7
474276 2001 TQ_{257}	16.9	X	210.54828	52.86919	339.71827	3.18147	0.1324745	0.19048239	2.9915723	20	5 13.5	21.6
474277 2001 UD_{1}	15.8	X	304.24422	123.60597	327.50546	21.83935	0.3545486	0.26352195	2.4094885	20	12 17.3	17.2
474278 2001 UT_{17}	18.7	X	170.52438	342.20572	48.18962	30.40283	0.2526755	0.39644465	1.8351899	20	4 13.4	21.9
474279 2001 UK_{31}	17.6	X	328.28835	357.65277	61.78697	2.23960	0.1721031	0.26402194	2.4064456	20	12 23.3	19.6
474280 2001 UM_{40}	17.6	X	349.84596	328.98161	65.27098	3.24789	0.2213331	0.26369571	2.4084299	20	—	—
474281 2001 UQ_{49}	17.4	X	343.03830	317.72919	79.11028	9.76431	0.2436306	0.26194266	2.4191635	20	12 29.1	19.3
474282 2001 UV_{55}	18.0	X	20.91753	336.39750	6.60015	2.77040	0.2080313	0.26429955	2.4047601	20	12 10.7	20.8
474283 2001 UM_{106}	17.9	X	296.83700	263.64120	148.71593	2.77697	0.1830631	0.25716866	2.4490107	20	10 1.1	19.9
474284 2001 UY_{225}	17.9	X	347.08646	287.22085	70.71790	5.99737	0.1493810	0.26043732	2.4284765	20	10 27.7	20.2
474285 2001 UC_{230}	17.9	X	288.69960	321.59642	102.70678	5.43571	0.1766265	0.25724840	2.4485046	20	10 6.5	20.4
474286 2001 VG_{79}	17.5	X	325.10058	149.16865	239.95682	8.91840	0.2154174	0.25813395	2.4429015	20	10 26.9	19.4
474287 2001 WD_{26}	17.8	X	310.44837	320.53949	72.46136	4.14351	0.2015573	0.25689272	2.4507641	20	9 30.1	19.7
474288 2001 WE_{62}	17.8	X	322.44985	150.43402	262.65461	1.59786	0.1784716	0.26019986	2.4299538	20	11 29.5	19.6
474289 2001 WC_{86}	16.2	X	206.55000	311.67672	69.25473	11.80512	0.0700228	0.18380722	3.0635690	20	5 2.1	20.8
474290 2001 WH_{86}	17.8	X	300.63853	329.76879	90.57712	2.33564	0.1762366	0.25651418	2.4531746	20	10 22.6	19.8
474291 2001 WA_{88}	16.3	X	220.16797	136.16974	248.06106	10.57228	0.1191286	0.18822469	3.0154467	20	5 14.1	20.9
474292 2001 WL_{100}	17.9	X	226.74246	149.93339	246.77784	5.81132	0.2409118	0.19100742	2.9860877	20	5 27.7	23.0
474293 2001 WR_{101}	18.1	X	320.10793	231.51635	216.00243	2.35034	0.2018936	0.26231370	2.4168817	20	—	—
474294 2001 XC_{1}	18.7	X	104.16598	26.88615	89.91001	31.16760	0.2097084	0.39305499	1.8457257	20	5 28.8	21.1
474295 2001 XX_{10}	18.0	X	346.00988	346.46107	88.80923	38.36551	0.0090307	0.53007451	1.5120916	20	—	—
474296 2001 XX_{27}	15.5	X	126.38369	191.84060	326.13351	16.98637	0.3540567	0.18063043	3.0993844	20	8 10.4	21.1
474297 2001 XD_{32}	17.7	X	353.63774	110.00995	249.75425	5.03444	0.1852939	0.25900099	2.4374465	20	11 13.9	20.0
474298 2001 XN_{122}	17.6	X	306.62117	318.60324	74.52989	2.28010	0.1858061	0.25543337	2.4600898	20	9 21.5	19.6
474299 2001 XM_{124}	17.3	X	315.16958	349.49269	85.98091	9.29363	0.1511791	0.26122149	2.4236140	20	12 17.6	19.1
474300 2001 XS_{128}	17.8	X	341.24899	195.83001	221.05223	4.14586	0.1910530	0.26268113	2.4146274	20	—	—
474301 2001 XM_{187}	16.8	X	230.11094	320.73697	117.70084	10.16385	0.2431809	0.19138513	2.9821575	20	7 20.3	21.5
474302 2001 XK_{229}	18.0	X	351.14382	334.69797	47.73027	2.71185	0.2374871	0.26048655	2.4281705	20	12 22.1	20.2
474303 2001 XL_{248}	16.0	X	243.13973	323.05165	105.35779	11.18692	0.0829186	0.19129386	2.9831061	20	8 9.9	20.3
474304 2001 XN_{253}	16.0	X	159.38996	330.65794	108.86839	2.49122	0.0734811	0.18050442	3.1008266	20	5 21.4	20.5
474305 2001 YN_{15}	15.6	X	241.44936	259.45183	82.60294	11.92544	0.1062690	0.18281286	3.0746679	20	4 21.3	20.4
474306 2001 YT_{31}	15.6	X	121.22260	178.40487	257.94411	1.62312	0.1855437	0.12499669	3.9615977	20	4 18.8	21.7
474307 2001 YR_{57}	16.5	X	185.58370	196.63673	281.51130	4.27756	0.2059398	0.19058057	2.9905447	20	8 1.4	21.5
474308 2001 YX_{156}	16.3	X	138.22719	191.69721	288.68933	10.17474	0.1730432	0.18065248	3.0991321	20	6 24.9	21.3
474309 2002 AB_{26}	15.7	X	89.27677	208.17968	294.94489	15.94554	0.1347120	0.17680377	3.1439457	20	5 27.2	20.4
474310 2002 AN_{50}	16.9	X	203.13258	285.24565	158.36115	2.12439	0.2515237	0.18650998	3.0339005	20	7 3.6	22.1
474311 2002 AG_{65}	16.5	X	197.48758	326.19566	138.00637	6.96580	0.3307914	0.18744785	3.0237722	20	7 20.9	22.0
474312 2002 AW_{139}	17.2	X	343.08043	331.32967	89.61181	14.95512	0.1546719	0.26380070	2.4077908	20	—	—
474313 2002 AO_{142}	16.1	X	92.63579	205.99443	287.66076	18.56506	0.1236385	0.17694610	3.1422595	20	5 16.4	20.9
474314 2002 AQ_{172}	16.1	X	114.95560	174.37506	311.31468	10.42138	0.1240744	0.17822911	3.1271614	20	6 2.7	20.9
474315 2002 AT_{172}	16.8	X	133.91487	182.89318	308.56683	20.89269	0.2058930	0.18103250	3.0947936	20	7 9.3	22.1
474316 2002 BK_{28}	16.2	X	218.69264	138.13838	298.99303	17.34014	0.1360335	0.18777192	3.0202921	20	7 17.3	20.9
474317 2002 CX_{54}	15.7	X	132.45867	182.62808	324.87423	16.75745	0.1903793	0.18028665	3.1033232	20	7 26.5	20.9
474318 2002 CB_{72}	16.2	X	113.08482	245.63701	325.22372	17.15733	0.2095357	0.23984723	2.5655447	20	9 20.6	20.6
474319 2002 CQ_{187}	16.7	X	139.83069	338.41840	130.60583	11.38090	0.2285456	0.17881894	3.1202810	20	6 16.4	22.1
474320 2002 CQ_{204}	16.3	X	175.05184	306.79613	141.34529	11.62554	0.1676790	0.18049712	3.1009103	20	6 18.8	21.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
474321 2002 CK_{218}	15.7	X	144.98871	103.02289	346.54214	25.92713	0.2215609	0.17599501	3.1535700	20	5 17.8	21.5
474322 2002 CH_{229}	16.7	X	158.41120	128.63012	309.15900	13.87357	0.1616055	0.17918047	3.1160824	20	5 18.6	22.0
474323 2002 CE_{258}	18.1	X	326.96645	289.89342	132.99162	4.78014	0.2128654	0.25695055	2.4503964	20	12 26.8	20.1
474324 2002 CY_{261}	16.7	X	145.41751	354.71143	134.90347	13.91402	0.2566796	0.18233147	3.0800774	20	7 15.4	22.1
474325 2002 CS_{286}	17.0	X	100.62360	272.31342	320.57759	8.20379	0.1460272	0.24201131	2.5502276	20	10 5.4	21.0
474326 2002 CJ_{297}	16.6	X	181.48184	92.43662	304.59844	14.62170	0.2207835	0.17892988	3.1189911	20	4 16.8	22.3
474327 2002 DV_{18}	16.9	X	171.90691	116.32712	41.27279	13.11492	0.2312626	0.24296793	2.5435293	20	9 17.5	21.4
474328 2002 EK_{4}	17.1	X	97.16578	239.12697	349.46430	12.33791	0.1213670	0.23823049	2.5771388	20	9 25.4	21.0
474329 2002 ET_{25}	16.7	X	102.76290	219.97743	352.67661	13.82861	0.1275508	0.23659732	2.5889848	20	9 13.8	20.5
474330 2002 ED_{90}	15.6	X	100.00978	330.17614	164.96018	28.17802	0.1656986	0.17310901	3.1885234	20	6 7.5	20.9
474331 2002 EE_{141}	17.0	X	210.47465	328.63653	147.65970	6.29239	0.2393895	0.18953922	3.0014883	20	8 18.6	22.2
474332 2002 FC_{30}	16.4	X	95.69484	180.78092	67.56177	12.47298	0.1314008	0.24144138	2.5542393	20	10 26.7	20.3
474333 2002 GU_{9}	18.3	X	6.18489	296.22602	204.03687	21.40876	0.0732482	0.37356279	1.9093856	20	—	—
474334 2002 GZ_{64}	16.5	X	140.63376	108.78643	43.96629	13.32518	0.1877270	0.23237625	2.6202430	20	8 14.9	21.1
474335 2002 GK_{65}	17.0	X	46.52911	66.56214	199.48625	12.66734	0.2371671	0.23144750	2.6272479	20	9 30.5	20.4
474336 2002 GG_{71}	16.8	X	155.60646	102.08626	44.20205	12.63164	0.1365725	0.23462554	2.6034697	20	8 19.8	21.1
474337 2002 HM_{6}	17.0	X	69.88946	207.63750	21.87787	14.02362	0.2130162	0.23126658	2.6286179	20	9 13.9	20.9
474338 2002 JT_{56}	17.6	X	313.04441	336.89531	232.85965	19.12980	0.0473001	0.37229619	1.9137138	20	—	—
474339 2002 NH_{64}	17.6	X	337.60238	330.41306	3.76756	1.89730	0.1777668	0.22102140	2.7092339	20	8 21.4	20.0
474340 2002 OM_{5}	17.0	X	294.92850	75.97092	264.69139	6.17324	0.2391055	0.21392596	2.7688137	20	5 28.7	20.6
474341 2002 ON_{32}	17.2	X	60.42534	238.79806	19.70752	3.99585	0.1606976	0.22471527	2.6794623	20	9 27.5	20.9
474342 2002 OL_{33}	18.4	X	90.32341	71.03502	229.54803	4.50179	0.1356663	0.28925966	2.2643530	20	12 30.1	21.7
474343 2002 PJ	16.7	X	357.42249	341.54767	301.24914	8.63560	0.2033012	0.21819223	2.7326030	20	7 17.4	19.1
474344 2002 PO_{80}	17.6	X	130.35168	147.01494	114.03995	8.10568	0.2270616	0.29135357	2.2534910	20	12 19.1	21.3
474345 2002 PQ_{173}	18.2	X	32.22554	202.75465	172.82281	4.65368	0.2375869	0.28678504	2.2773601	20	—	—
474346 2002 PH_{185}	16.4	X	230.88873	73.43665	328.56592	8.05650	0.1947896	0.20975269	2.8054187	20	6 9.9	21.1
474347 2002 PH_{187}	17.5	X	25.55948	37.99988	4.00810	6.87644	0.1569408	0.29040214	2.2584103	20	—	—
474348 2002 QR_{3}	18.4	X	47.32437	43.72058	286.74279	5.02742	0.2790258	0.28456539	2.2891873	20	—	—
474349 2002 QG_{27}	18.1	X	83.89591	229.05390	101.59888	2.21629	0.1925200	0.29028247	2.2590309	20	—	—
474350 2002 QN_{52}	18.9	X	55.04199	167.53673	148.98065	6.44449	0.2746959	0.28455103	2.2892643	20	12 27.1	22.5
474351 2002 QT_{55}	17.0	X	332.57537	321.90286	342.92033	7.48116	0.2124185	0.21488607	2.7605601	20	6 20.7	19.7
474352 2002 QH_{63}	17.3	X	308.51544	79.84622	284.67960	2.11698	0.2074548	0.21716372	2.7412240	20	7 30.9	19.9
474353 2002 QC_{68}	18.8	X	29.31521	349.92481	1.59652	1.09692	0.2247718	0.28373952	2.2936272	20	—	—
474354 2002 QK_{71}	18.1	X	48.35714	7.04350	328.63852	3.54596	0.2181926	0.28527142	2.2854087	20	—	—
474355 2002 QV_{88}	18.4	X	19.68216	99.09183	281.99361	0.62097	0.1521217	0.28590615	2.2820249	20	—	—
474356 2002 QO_{95}	17.1	X	303.61521	343.16790	5.05804	6.11779	0.1097060	0.21519647	2.7579049	20	7 14.8	20.5
474357 2002 QU_{106}	16.9	X	288.35439	69.35462	320.46936	8.26995	0.1123790	0.21862056	2.7290326	20	8 16.2	20.3
474358 2002 QO_{111}	17.1	X	287.03519	114.00705	272.75910	3.91736	0.1219962	0.21739302	2.7392962	20	8 7.3	20.6
474359 2002 QX_{111}	17.0	X	306.12261	172.05858	193.26477	5.39915	0.1410530	0.21749038	2.7384786	20	8 4.9	20.2
474360 2002 QV_{121}	18.5	X	353.14849	197.08625	182.03810	4.36169	0.2258077	0.28081300	2.3095352	20	12 26.4	20.8
474361 2002 QJ_{124}	18.1	X	58.23856	125.15960	161.79440	6.66935	0.1209703	0.28213592	2.3023100	20	11 7.2	21.1
474362 2002 QN_{127}	18.3	X	102.60767	245.44809	29.53895	3.24621	0.2084232	0.28720581	2.2751353	20	12 12.3	22.0
474363 2002 QZ_{131}	18.0	X	17.10907	4.35658	32.47063	2.98243	0.2455907	0.28651075	2.2788134	20	—	—
474364 2002 RJ_{16}	17.9	X	19.47593	150.74816	170.38482	4.04878	0.2707866	0.27896087	2.3197465	20	11 24.2	20.5
474365 2002 RR_{58}	17.7	X	48.03130	351.88856	318.59897	4.52351	0.2620068	0.28171541	2.3046005	20	12 11.3	21.1
474366 2002 RO_{85}	17.9	X	33.09773	358.49800	356.22198	5.64862	0.2940277	0.28314341	2.2968453	20	—	—
474367 2002 RA_{116}	16.6	X	350.96085	355.38037	324.70169	13.16206	0.1790649	0.21818924	2.7326279	20	8 26.7	19.3
474368 2002 RQ_{138}	17.7	X	359.81695	21.10948	3.31238	29.24251	0.2147995	0.28179419	2.3041710	20	—	—
474369 2002 RJ_{142}	17.0	X	268.73516	48.18841	320.70598	6.94605	0.2414822	0.21013703	2.8019969	20	5 31.7	21.2
474370 2002 RT_{157}	17.6	X	243.71433	78.62227	344.55783	6.86564	0.4354857	0.20771187	2.8237647	20	6 27.9	22.8
474371 2002 RL_{177}	17.9	X	18.24900	63.93514	307.37928	3.32372	0.1606495	0.28301281	2.2975518	20	—	—
474372 2002 RE_{207}	17.0	X	264.11897	212.20750	174.47116	8.16561	0.2258493	0.21055394	2.7982970	20	6 21.7	21.2
474373 2002 RB_{235}	18.3	X	84.70949	339.27074	314.20094	3.98681	0.1176334	0.28407746	2.2918078	20	12 13.4	21.6
474374 2002 RP_{254}	17.8	X	299.43038	66.31552	315.10179	2.34215	0.2046577	0.21633612	2.7482107	20	8 8.2	20.9
474375 2002 RK_{261}	18.7	X	18.55600	159.35437	202.35237	5.47409	0.1851565	0.28218614	2.3020368	20	—	—
474376 2002 RJ_{269}	18.1	X	306.14876	357.42585	344.67061	2.94938	0.2031139	0.21441021	2.7646431	20	6 24.4	21.2
474377 2002 RE_{270}	18.4	X	56.73757	350.57408	337.88396	1.28656	0.2099565	0.28560031	2.2836538	20	—	—
474378 2002 RT_{279}	18.3	X	28.43377	191.31107	179.43192	6.66529	0.1245756	0.28410416	2.2916642	20	—	—
474379 2002 SK_{25}	17.3	X	89.45535	297.72320	16.99789	23.42189	0.1638713	0.28648207	2.2789655	20	—	—
474380 2002 SK_{26}	18.0	X	52.04229	175.56158	179.32692	4.84642	0.2207635	0.28621040	2.2804074	20	—	—
474381 2002 SW_{59}	16.7	X	288.18632	332.92400	26.43034	14.19558	0.2004311	0.21198778	2.7856647	20	6 18.8	20.6
474382 2002 SX_{69}	19.1	X	46.82581	350.81724	338.73248	1.19101	0.2090355	0.28255232	2.3000475	20	12 28.7	22.2
474383 2002 SN_{70}	17.1	X	279.06054	18.02063	9.19730	6.32730	0.0507108	0.21339094	2.7734398	20	8 10.3	20.8
474384 2002 TB_{22}	16.5	X	271.53417	23.62386	20.28974	8.02848	0.2288518	0.21183547	2.7869998	20	7 25.6	20.4
474385 2002 TC_{43}	16.6	X	285.72522	32.11336	25.84092	24.13326	0.2764918	0.21418689	2.7665644	20	9 7.9	20.3
474386 2002 TT_{60}	17.0	X	17.43388	206.58269	180.93076	24.60168	0.2651641	0.28144617	2.3060700	20	—	—
474387 2002 TJ_{120}	17.7	X	52.89716	341.46735	354.08356	11.35705	0.2362887	0.28311520	2.2969979	20	—	—
474388 2002 TC_{124}	17.6	X	285.81241	104.34758	270.46979	6.24886	0.3249206	0.21221499	2.7836759	20	6 17.8	21.4
474389 2002 TP_{131}	18.2	X	36.01035	134.47326	219.39545	6.35504	0.2240116	0.28302767	2.2974714	20	—	—
474390 2002 TS_{141}	16.2	X	0.96898	270.74324	12.57227	29.65258	0.2218063	0.21427083	2.7658419	20	8 17.7	19.6
474391 2002 TC_{151}	17.3	X	283.33157	51.12065	325.19796	3.11812	0.2085147	0.21158766	2.7891754	20	7 5.4	20.9
474392 2002 TF_{157}	17.9	X	357.60005	272.96838	116.38539	7.59654	0.2818888	0.27975591	2.3153494	20	—	—
474393 2002 TU_{190}	16.4	X	310.43909	91.41220	304.44608	12.44915	0.3048670	0.21607529	2.7504219	20	8 30.9	18.9
474394 2002 TK_{224}	16.7	X	289.36091	187.40637	207.14386	7.71599	0.2271653	0.21293208	2.7774227	20	8 2.7	20.2
474395 2002 TB_{233}	17.5	X	56.54810	75.64476	272.43388	7.60231	0.2531496	0.28550764	2.2841479	20	—	—
474396 2002 TZ_{325}	18.2	X	322.46921	271.80395	182.66876	5.95662	0.0863890	0.28536650	2.2849010	20	—	—
474397 2002 TK_{327}	16.9	X	282.06019	358.14140	24.77171	5.85578	0.1071508	0.21284747	2.7781587	20	7 30.8	20.5
474398 2002 TO_{340}	17.2	X	256.70129	11.39287	47.38133	8.49252	0.2055313	0.21118544	2.7927157	20	7 30.4	21.3
474399 2002 TB_{368}	18.4	X	9.94169	247.08431	156.22615	7.92187	0.2673756	0.28267964	2.2993568	20	—	—
474400 2002 UF_{13}	16.6	X	260.48907	351.06167	77.72084	10.75601	0.2988659	0.21064769	2.7974667	20	8 3.9	20.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
474401 2002 UY_{13}	18.9	X	6.78917	341.38661	61.58365	9.81644	0.2829161	0.28207696	2.3026308	20	—	—
474402 2002 UG_{22}	16.9	X	287.38301	342.26865	55.11585	8.97418	0.2246362	0.21128454	2.7918424	20	8 10.3	20.4
474403 2002 UH_{23}	16.8	X	50.37121	340.09711	36.31128	26.56408	0.2224691	0.28652004	2.2787642	20	—	—
474404 2002 UY_{31}	17.8	X	9.99279	121.86167	282.92105	6.35754	0.2057747	0.28291781	2.2980662	20	—	—
474405 2002 UX_{41}	17.5	X	29.54163	58.86752	33.30228	21.11697	0.0718540	0.34885422	1.9985119	20	—	—
474406 2002 VH_{8}	16.2	X	240.35126	61.35479	18.55302	16.75163	0.1775948	0.20974572	2.8054808	20	8 17.2	20.7
474407 2002 VF_{65}	17.7	X	14.21544	331.74665	58.38355	9.51110	0.1879180	0.28143268	2.3061437	20	—	—
474408 2002 VR_{92}	18.0	X	5.30434	246.06034	146.16924	2.75125	0.2383770	0.27978423	2.3151932	20	—	—
474409 2002 VM_{126}	17.6	X	340.28200	38.54330	44.04687	7.40260	0.2151222	0.28043116	2.3116311	20	—	—
474410 2002 VY_{143}	16.5	X	238.14534	190.16031	219.16630	12.25266	0.0720447	0.20528112	2.8460119	20	7 8.2	20.8
474411 2002 VH_{145}	18.3	X	27.24951	248.44294	113.98586	2.83012	0.2314064	0.28055803	2.3109342	20	—	—
474412 2002 WT	16.6	X	1.68877	94.29657	311.19009	23.06403	0.3004825	0.27939802	2.3173262	20	—	—
474413 2002 WU_{6}	17.6	X	32.75964	81.90548	57.36343	19.31074	0.1555257	0.35238379	1.9851444	20	1 29.3	19.3
474414 2002 WY_{8}	17.6	X	332.10162	57.64537	20.28788	6.65471	0.1733157	0.27991107	2.3144937	20	—	—
474415 2002 WY_{26}	18.8	X	8.74362	330.17673	49.69164	4.06924	0.2642533	0.28008772	2.3135204	20	—	—
474416 2002 WJ_{28}	16.3	X	324.55432	272.84279	68.94914	20.76698	0.2165158	0.21083014	2.7958525	20	8 3.4	19.5
474417 2002 XS_{1}	17.8	X	329.74819	289.76165	103.99735	3.41925	0.2826955	0.27408836	2.3471580	20	12 3.9	18.9
474418 2002 XZ_{37}	16.9	X	272.31647	158.24036	283.95524	12.27905	0.3501179	0.21356466	2.7719355	20	8 20.2	20.8
474419 2002 XO_{38}	16.2	X	29.71869	134.44804	262.08737	23.19709	0.2689972	0.28330857	2.2959525	20	—	—
474420 2002 XT_{72}	17.9	X	47.08098	356.68860	43.64422	5.10064	0.2042800	0.28601349	2.2814539	20	—	—
474421 2002 XR_{117}	18.0	X	14.15432	291.90945	95.48995	5.30211	0.2467628	0.28060307	2.3106869	20	—	—
474422 2002 XX_{117}	18.3	X	354.92780	260.36311	140.33086	6.26376	0.2429180	0.27823820	2.3237615	20	—	—
474423 2002 XD_{120}	18.4	X	339.50413	305.26592	123.08766	3.04539	0.1803896	0.27848785	2.3223725	20	—	—
474424 2002 YZ_{1}	17.2	X	337.87654	82.33660	27.80319	21.62766	0.2945271	0.28003844	2.3137918	20	—	—
474425 2002 YF_{4}	18.8	X	148.80828	93.57535	61.69803	33.67415	0.3339588	0.42398795	1.7548246	20	9 27.2	22.7
474426 2003 AV_{80}	16.2	X	253.78167	91.02843	75.75656	22.07389	0.2921018	0.26925669	2.3751537	20	12 12.0	18.5
474427 2003 BR_{11}	16.7	X	266.75260	173.65676	315.06488	21.22708	0.0904691	0.26875473	2.3781102	20	12 13.7	19.8
474428 2003 DC_{10}	17.5	X	318.81008	84.21114	44.02188	23.22853	0.2486451	0.27683389	2.3316134	20	—	—
474429 2003 ER_{13}	16.3	X	117.04480	169.23473	339.89366	9.81633	0.2098191	0.18852371	3.0122573	20	7 15.5	21.3
474430 2003 EC_{29}	17.4	X	193.04154	138.41716	8.79402	11.10267	0.1832428	0.25667384	2.4521572	20	9 21.4	21.2
474431 2003 FT_{130}	15.7	X	5.15132	199.02451	27.57374	24.86332	0.1849764	0.17686623	3.1432055	20	5 2.9	19.2
474432 2003 FF_{133}	16.4	X	52.47289	20.01779	187.19009	13.16752	0.1152172	0.18303443	3.0721861	20	6 27.6	20.7
474433 2003 GJ_{2}	16.0	X	14.31962	350.88253	192.33320	27.57723	0.1076032	0.17361723	3.1822979	20	3 27.0	19.9
474434 2003 GS_{26}	16.2	X	345.77801	248.99065	15.69903	17.25116	0.2095360	0.17833552	3.1259173	20	5 14.5	19.7
474435 2003 GB_{32}	15.9	X	14.11526	155.35201	24.68360	15.22781	0.1952955	0.17282284	3.1920422	20	3 28.0	19.3
474436 2003 GF_{53}	16.8	X	344.63870	103.54289	202.69432	27.50101	0.3947999	0.23546325	2.5972911	20	7 8.7	18.9
474437 2003 GZ_{56}	16.2	X	54.71595	162.96398	26.89245	16.77044	0.0602790	0.18004155	3.1061390	20	5 27.7	20.6
474438 2003 HU_{23}	18.9	X	259.94666	61.29563	203.18777	22.22335	0.0637177	0.39634802	1.8354882	20	—	—
474439 2003 HK_{52}	15.7	X	344.05889	19.80958	211.24098	30.18709	0.2386574	0.17206452	3.2014140	20	3 24.9	19.4
474440 2003 NH_{5}	18.4	X	142.51356	80.84456	195.94239	4.89106	0.2750072	0.31447039	2.1416552	20	—	—
474441 2003 OE_{13}	17.1	X	351.62963	353.28804	312.35865	5.83120	0.4356560	0.23211560	2.6222041	20	9 4.6	17.4
474442 2003 PQ_{9}	17.6	X	297.50224	215.52299	154.80442	9.19470	0.4290807	0.22701886	2.6613056	20	6 11.8	21.1
474443 2003 QJ_{5}	17.0	X	356.67292	120.94829	184.12727	28.28905	0.3965621	0.23311034	2.6147390	20	9 20.4	18.1
474444 2003 QD_{14}	16.9	X	332.23587	172.07462	175.82309	13.63144	0.2135711	0.23216435	2.6218371	20	8 28.9	19.3
474445 2003 QO_{76}	17.2	X	338.65150	37.76079	313.54806	4.43110	0.3349596	0.23225751	2.6211359	20	9 25.0	18.4
474446 2003 QH_{99}	17.2	X	344.62337	78.92256	255.61483	2.56198	0.2446286	0.23258606	2.6186669	20	9 10.2	19.0
474447 2003 QL_{109}	17.1	X	311.78473	2.99607	358.57943	6.20932	0.1835582	0.23002738	2.6380500	20	8 10.0	19.7
474448 2003 QN_{109}	16.1	X	268.36449	83.18732	275.28015	10.05725	0.2071005	0.22219245	2.6997063	20	5 22.4	20.0
474449 2003 RU_{20}	16.6	X	296.59190	32.76022	3.09305	12.25893	0.2953650	0.22901052	2.6458533	20	8 15.2	19.5
474450 2003 SU_{10}	18.5	X	56.22846	43.59748	352.08094	3.37966	0.1059290	0.30882526	2.1676750	20	—	—
474451 2003 SR_{15}	21.6	X	152.51083	255.58116	176.21072	14.08375	0.2783632	0.68253698	1.2775716	20	5 8.8	22.3
474452 2003 SF_{31}	18.3	X	159.45254	151.51728	190.94170	24.58413	0.1520578	0.37698940	1.8977979	20	—	—
474453 2003 SY_{36}	16.8	X	313.42643	5.64928	12.06103	12.12350	0.1822011	0.22974255	2.6402300	20	9 9.6	19.4
474454 2003 SU_{41}	16.5	X	3.45865	326.40505	357.49156	33.27408	0.2325408	0.23175050	2.6249574	20	9 30.5	19.1
474455 2003 SL_{53}	17.3	X	323.61902	68.55790	296.12958	11.31650	0.2786390	0.23184519	2.6242427	20	8 24.5	19.3
474456 2003 SH_{55}	17.2	X	303.83722	152.54214	241.76907	3.80218	0.3131713	0.22971332	2.6404539	20	8 17.2	19.7
474457 2003 SS_{57}	16.8	X	290.25555	20.05492	11.12147	8.17481	0.3354631	0.22595205	2.6696758	20	7 17.5	20.2
474458 2003 SF_{61}	17.3	X	315.15802	358.40841	23.28063	5.16267	0.2922157	0.23099368	2.6306878	20	9 4.1	19.1
474459 2003 SK_{77}	17.6	X	294.98717	109.30344	267.40493	5.19734	0.2791101	0.22676833	2.6632654	20	7 11.8	20.5
474460 2003 SA_{82}	17.2	X	14.95283	309.16394	15.82808	4.70601	0.1982519	0.23459111	2.6037244	20	10 28.0	19.9
474461 2003 SP_{85}	16.4	X	272.44329	95.28931	296.15321	11.25701	0.2742891	0.22438606	2.6820825	20	7 2.1	20.1
474462 2003 SR_{94}	18.2	X	276.87799	255.21709	206.61991	2.44749	0.2446823	0.23634521	2.5908256	20	10 19.8	20.7
474463 2003 SG_{105}	17.7	X	37.25680	284.54487	358.96006	1.64367	0.2042639	0.23245624	2.6196418	20	10 6.9	21.0
474464 2003 SE_{108}	17.0	X	270.37096	115.45578	273.58609	4.29974	0.1909190	0.22286544	2.6942686	20	7 7.8	20.7
474465 2003 SB_{133}	17.3	X	284.51268	38.03261	17.48760	7.46030	0.2449322	0.22772585	2.6557947	20	8 29.2	20.3
474466 2003 SJ_{160}	18.1	X	56.65026	68.18197	309.98789	4.49483	0.1943165	0.30738187	2.1744556	20	—	—
474467 2003 SJ_{174}	16.9	X	278.64371	5.20640	347.02289	6.16728	0.2195191	0.22218250	2.6997869	20	5 24.0	20.7
474468 2003 SX_{183}	17.6	X	308.94536	156.32011	212.37437	1.74061	0.2704857	0.22778310	2.6553497	20	7 28.5	20.2
474469 2003 SW_{197}	17.0	X	319.71898	348.18194	22.35743	7.87756	0.1939441	0.23014176	2.6371759	20	9 10.3	19.4
474470 2003 SA_{201}	17.1	X	336.67665	44.82961	308.05840	2.41120	0.2154318	0.23149137	2.6269160	20	9 18.4	19.0
474471 2003 SS_{206}	16.7	X	311.79500	344.80829	1.23894	11.69119	0.1826526	0.22715858	2.6602142	20	7 18.6	19.8
474472 2003 SH_{211}	17.1	X	293.76009	260.54828	120.05849	7.32274	0.2745921	0.22728897	2.6591968	20	7 16.7	20.1
474473 2003 SE_{215}	17.9	X	217.69034	263.48095	359.33690	19.03482	0.0529633	0.37502267	1.9044272	20	—	—
474474 2003 SJ_{215}	19.4	X	2.17967	155.55597	269.77693	6.17637	0.4248671	0.30110139	2.2045885	20	—	—
474475 2003 SA_{221}	17.3	X	346.67555	142.68318	208.39969	11.49930	0.2364998	0.23220230	2.6215513	20	10 13.5	19.3
474476 2003 SB_{235}	17.5	X	279.59643	95.90034	309.11636	6.35256	0.2839076	0.22678233	2.6631558	20	7 27.9	20.9
474477 2003 SD_{243}	17.8	X	327.46184	339.59519	348.75384	2.99971	0.2080742	0.22757738	2.6569497	20	7 18.3	20.2
474478 2003 SA_{251}	18.2	X	215.84328	317.14730	15.41049	19.48982	0.1120886	0.38446268	1.8731243	20	2 29.6	20.8
474479 2003 SA_{276}	17.3	X	230.23990	58.93262	336.21739	3.85699	0.1187378	0.21705662	2.7421257	20	6 7.5	21.5
474480 2003 SB_{288}	18.5	X	42.39170	122.02665	267.42234	5.87693	0.1776020	0.30374145	2.1917954	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
474481 2003 SY_{299}	17.3	X	344.07174	185.49298	161.13060	3.18660	0.2453063	0.23103254	2.6303928	20	10 1.5	19.1
474482 2003 SP_{321}	17.1	X	255.49122	308.40473	90.74616	2.81327	0.0974427	0.22300669	2.6931309	20	7 16.6	20.8
474483 2003 SL_{323}	18.0	X	277.24083	145.25984	244.46016	2.08856	0.2026628	0.22590671	2.6700330	20	7 16.1	21.5
474484 2003 SA_{324}	18.5	X	348.42876	73.72373	316.82064	2.62292	0.1799525	0.29552950	2.2322123	20	—	—
474485 2003 SD_{324}	18.2	X	83.55081	173.22736	173.62378	2.88211	0.1853785	0.30625367	2.1797926	20	—	—
474486 2003 SB_{330}	17.2	X	231.24332	114.36959	351.84383	10.96731	0.1476432	0.23030129	2.6359579	20	9 8.4	20.8
474487 2003 SL_{337}	17.4	X	276.50173	43.25419	324.77934	5.66842	0.0346920	0.22425876	2.6830974	20	7 13.2	20.9
474488 2003 SW_{337}	17.6	X	298.32132	307.50656	59.05691	5.82533	0.1628008	0.22545800	2.6735745	20	7 25.1	20.7
474489 2003 SU_{338}	18.2	X	338.03154	281.04360	51.49673	5.16371	0.1176036	0.22783423	2.6549524	20	8 24.3	21.1
474490 2003 SQ_{366}	17.2	X	296.51972	118.52258	258.88451	1.60871	0.1241309	0.22852744	2.6495806	20	8 10.8	20.1
474491 2003 SM_{369}	17.4	X	95.43743	232.03520	348.77455	11.29875	0.0252735	0.22981924	2.6396426	20	9 3.9	20.9
474492 2003 SC_{402}	17.2	X	316.92661	252.02753	115.80921	11.92702	0.1420284	0.22623292	2.6674657	20	9 4.8	20.1
474493 2003 TR_{4}	17.3	X	241.11489	88.38153	323.00085	5.44560	0.1392981	0.22295612	2.6935380	20	7 10.0	21.1
474494 2003 TP_{55}	17.0	X	33.66189	236.20514	41.71154	15.45472	0.1088127	0.22775109	2.6555985	20	9 16.9	20.5
474495 2003 UH_{4}	17.5	X	276.37807	86.24926	312.45196	11.58146	0.2781298	0.22389349	2.6860148	20	7 16.9	21.1
474496 2003 UX_{9}	16.5	X	286.53442	11.92703	38.85710	12.43655	0.1837828	0.22655542	2.6649338	20	9 9.1	19.8
474497 2003 UU_{32}	16.9	X	37.21306	263.26884	29.86766	12.02762	0.1848738	0.23158484	2.6262091	20	10 17.6	20.2
474498 2003 UJ_{42}	17.0	X	254.04547	26.18229	26.21254	4.96063	0.1954375	0.22323048	2.6913307	20	7 19.7	21.0
474499 2003 UU_{47}	18.5	X	91.78104	42.27794	53.14111	25.05353	0.1502380	0.37795030	1.8945799	20	4 3.1	20.8
474500 2003 UC_{49}	17.1	X	281.25238	347.42860	72.90678	5.71501	0.2592032	0.22656737	2.6648400	20	8 27.9	20.3
474501 2003 UN_{53}	16.4	X	351.67705	348.42063	342.34306	13.83199	0.2669408	0.22946356	2.6423696	20	9 22.6	18.4
474502 2003 UN_{59}	16.9	X	2.28982	353.13596	348.70233	3.46634	0.2203783	0.23345965	2.6121302	20	10 31.8	19.4
474503 2003 UA_{60}	16.9	X	15.26489	65.91637	252.93353	12.05875	0.2695732	0.23344773	2.6122192	20	10 30.1	19.8
474504 2003 UM_{75}	17.3	X	319.15820	128.47346	254.93226	3.63451	0.1145250	0.23104943	2.6302647	20	9 28.5	20.1
474505 2003 UE_{76}	16.6	X	339.18924	334.12405	12.49849	18.11912	0.2168778	0.22929020	2.6437013	20	9 20.6	18.8
474506 2003 UP_{80}	18.6	X	54.68305	306.51817	56.84699	2.73604	0.2025860	0.30343601	2.1932660	20	—	—
474507 2003 UP_{83}	17.1	X	286.25270	41.04460	348.94824	6.24294	0.2109650	0.22465557	2.6799370	20	7 30.8	20.3
474508 2003 UT_{87}	16.7	X	319.38817	90.48468	284.07438	12.41863	0.1731571	0.23099727	2.6306606	20	9 6.1	19.6
474509 2003 UN_{89}	17.4	X	296.77970	149.48125	220.95541	4.50534	0.1900022	0.22580854	2.6708068	20	7 20.6	20.4
474510 2003 UM_{119}	16.9	X	262.14321	170.02282	223.88316	7.64603	0.1847730	0.22192837	2.7018475	20	7 3.8	20.8
474511 2003 UD_{123}	17.3	X	301.57147	114.74433	236.78487	1.19646	0.2210298	0.22256224	2.6967151	20	6 27.2	20.4
474512 2003 UF_{125}	16.8	X	260.31658	308.45084	114.23786	3.66733	0.2021884	0.22455258	2.6807564	20	8 8.3	20.6
474513 2003 UF_{134}	16.9	X	353.53335	122.73099	259.73217	7.90493	0.2628635	0.23567922	2.5957042	20	12 21.3	19.3
474514 2003 UO_{177}	18.4	X	27.73556	16.00613	11.78717	5.14019	0.1307329	0.30186408	2.2008735	20	—	—
474515 2003 UU_{179}	17.0	X	312.44113	219.83099	167.68308	6.06499	0.2278769	0.22872324	2.6480683	20	9 12.6	19.2
474516 2003 UW_{180}	16.8	X	286.16194	154.45303	242.23174	10.88211	0.1851002	0.22544547	2.6736735	20	8 6.8	20.3
474517 2003 UV_{204}	16.8	X	307.76945	329.88935	29.44580	13.97557	0.1761273	0.22572701	2.6714499	20	8 3.3	20.0
474518 2003 UD_{210}	18.0	X	53.02487	320.79069	21.72843	3.87865	0.2615664	0.29986210	2.2106585	20	—	—
474519 2003 US_{230}	17.3	X	303.38431	129.78125	240.06889	6.55727	0.3144914	0.22525695	2.6751650	20	7 9.4	20.3
474520 2003 UA_{231}	17.8	X	327.43657	84.53600	327.00230	2.34997	0.2457470	0.23476236	2.6024580	20	12 1.4	19.6
474521 2003 UZ_{239}	16.6	X	276.78829	44.18445	27.85040	23.23306	0.0857948	0.23041177	2.6351152	20	10 7.6	20.0
474522 2003 UQ_{271}	16.7	X	260.36435	208.65082	214.66614	15.15778	0.1883139	0.22406549	2.6846401	20	8 5.3	20.8
474523 2003 UG_{279}	16.8	X	279.91675	0.46951	51.98949	9.26818	0.2276141	0.22697548	2.6616447	20	8 22.1	20.2
474524 2003 UN_{305}	17.2	X	288.85682	7.06662	316.08602	5.90739	0.0850263	0.21680482	2.7442485	20	5 19.5	21.0
474525 2003 UA_{318}	17.6	X	292.28937	133.83136	208.09526	5.57131	0.1258354	0.22300898	2.6931124	20	6 14.7	21.0
474526 2003 UD_{330}	17.1	X	245.52465	87.15478	317.99143	7.22333	0.1782134	0.21977336	2.7194809	20	7 2.0	21.1
474527 2003 UM_{332}	17.6	X	293.21075	91.24727	311.35041	3.10038	0.2112115	0.23001907	2.6381135	20	8 27.9	20.5
474528 2003 UH_{341}	16.5	X	242.42202	204.65547	245.06893	12.65159	0.1185221	0.23431434	2.6057744	20	8 28.1	20.5
474529 2003 UY_{342}	16.9	X	237.42566	270.99401	195.35939	15.20322	0.1262148	0.22916215	2.6446860	20	9 15.6	20.8
474530 2003 UY_{351}	17.4	X	354.42741	287.28855	66.04865	4.26148	0.1915019	0.23346194	2.6121132	20	10 31.3	19.8
474531 2003 UJ_{365}	17.0	X	0.05114	210.55980	72.88985	9.54391	0.1525571	0.22307596	2.6925733	20	7 23.9	19.8
474532 2003 VG_{1}	18.8	X	252.38684	135.84840	331.27001	8.87045	0.5794898	0.22300147	2.6931729	20	8 13.7	23.7
474533 2003 VU_{4}	18.2	X	50.97696	351.63727	29.10029	3.06498	0.1247308	0.30223729	2.1990614	20	—	—
474534 2003 WF	16.6	X	253.83658	199.25458	229.30419	13.50076	0.1970991	0.22297953	2.6933495	20	8 2.9	20.8
474535 2003 WK_{12}	17.7	X	23.34833	279.95125	235.22625	20.46511	0.0525377	0.37787476	1.8948324	20	1 21.7	20.0
474536 2003 WS_{12}	18.3	X	65.89056	302.17699	49.95041	8.54081	0.3290435	0.30312243	2.1947783	20	—	—
474537 2003 WF_{13}	17.4	X	285.89648	148.71622	253.22782	3.04821	0.2244285	0.22452608	2.6809673	20	8 10.7	20.5
474538 2003 WT_{21}	16.5	X	78.58958	103.06628	241.47090	38.86398	0.2492973	0.30343487	2.1932715	20	—	—
474539 2003 WZ_{26}	16.6	X	322.67593	140.12179	251.99100	13.55762	0.0763381	0.22962749	2.6411119	20	10 15.4	20.0
474540 2003 WU_{34}	17.2	X	321.83902	88.33744	258.90222	6.39465	0.3156909	0.22533859	2.6745189	20	7 16.3	19.3
474541 2003 WY_{60}	17.0	X	240.22189	174.70172	238.54790	14.03008	0.1634168	0.21761636	2.7374216	20	7 5.2	21.3
474542 2003 WA_{68}	16.1	X	171.37053	255.25712	244.51365	24.14228	0.1067710	0.21761297	2.7374500	20	8 8.6	20.9
474543 2003 WF_{69}	16.7	X	337.86399	283.86651	69.35607	14.10959	0.1446963	0.22554040	2.6729232	20	9 29.8	19.8
474544 2003 WC_{88}	18.3	X	354.15160	243.38104	246.12800	18.71811	0.0572545	0.36691019	1.9323963	20	—	—
474545 2003 WK_{109}	18.7	X	13.89401	359.57727	30.25142	6.70646	0.1867048	0.29769772	2.2213605	20	—	—
474546 2003 WP_{115}	18.1	X	54.66030	78.87150	291.84121	4.13814	0.2069443	0.30131303	2.2035561	20	—	—
474547 2003 WY_{122}	17.2	X	217.26628	46.67960	18.64526	4.46170	0.2367398	0.21426944	2.7658539	20	6 24.3	21.9
474548 2003 WJ_{145}	17.6	X	263.86759	183.55785	235.54165	0.78737	0.2172886	0.22222430	2.6994483	20	8 4.7	21.3
474549 2003 WX_{153}	17.8	X	14.34385	62.80075	91.67700	32.62149	0.6021426	0.30489216	2.1862771	20	—	—
474550 2003 WB_{171}	17.0	X	293.24336	213.04257	188.65756	13.36989	0.2494384	0.22559863	2.6724632	20	8 16.6	20.2
474551 2003 XV_{20}	17.8	X	309.38071	45.73060	350.41787	2.09144	0.3073973	0.22745329	2.6579159	20	9 6.2	19.9
474552 2003 YC_{4}	17.0	X	303.56141	300.64962	97.37376	13.85068	0.2639903	0.22659455	2.6646269	20	9 9.6	19.8
474553 2003 YK_{30}	17.2	X	321.96828	343.81617	72.95300	7.71957	0.2627775	0.23107091	2.6301016	20	11 24.6	19.0
474554 2003 YQ_{94}	17.5	X	326.74371	85.74668	272.41435	8.53342	0.6181920	0.22818792	2.6522082	20	6 3.8	19.3
474555 2003 YM_{140}	17.4	X	263.63325	120.25053	307.77326	12.23562	0.3231106	0.22183885	2.7025743	20	8 1.2	21.2
474556 2003 YJ_{147}	16.6	X	273.03633	23.66561	21.41379	10.23110	0.2483991	0.22064385	2.7123235	20	7 27.8	20.4
474557 2003 YF_{160}	16.6	X	190.25835	14.23130	67.62976	10.60316	0.1934176	0.20992322	2.8038992	20	6 23.3	21.3
474558 2004 AZ_{2}	16.7	X	277.16175	6.29574	110.73005	14.85900	0.1916121	0.22639231	2.6662136	20	11 21.6	19.9
474559 2004 AK_{18}	17.5	X	211.78787	279.51064	148.17728	3.19146	0.1668940	0.20969658	2.8059192	20	6 26.5	22.0
474560 2004 BT_{1}	15.3	X	136.35782	211.45789	240.68570	14.59546	0.4949636	0.14065599	3.6618220	20	6 5.4	22.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
474561 2004 BU_{35}	16.6	X	234.96093	128.50008	318.27009	11.97135	0.1072454	0.21452178	2.7636844	20	8 19.8	20.4
474562 2004 BK_{39}	17.0	X	221.52988	318.19037	146.20087	7.42993	0.2941587	0.21592551	2.7516936	20	8 10.7	21.6
474563 2004 BK_{92}	17.8	X	66.55130	182.32403	292.11285	17.28398	0.0972286	0.37112275	1.9177456	20	2 10.6	19.4
474564 2004 BO_{107}	17.0	X	204.03639	113.92196	13.22790	7.43437	0.2249924	0.21444349	2.7643570	20	8 31.6	21.6
474565 2004 CJ_{25}	17.1	X	187.06876	126.53700	327.78831	7.48344	0.0687338	0.20654624	2.8343785	20	7 10.9	21.3
474566 2004 CC_{31}	17.1	X	259.50553	121.93039	296.95567	5.22229	0.1049453	0.21452332	2.7636712	20	8 14.3	20.8
474567 2004 CY_{56}	18.1	X	88.77330	110.93702	4.94024	19.69882	0.1151521	0.37361948	1.9091925	20	4 3.3	19.5
474568 2004 CJ_{119}	17.4	X	233.84247	121.96734	325.86674	7.00461	0.1963294	0.21456547	2.7633093	20	8 10.9	21.5
474569 2004 EB_{10}	18.0	X	245.30725	190.09300	332.39219	3.68250	0.1465681	0.28368783	2.2939058	20	12 22.5	20.4
474570 2004 EB_{32}	16.5	X	183.09797	188.01657	14.99059	24.79996	0.1606558	0.27510282	2.3413842	20	11 14.8	20.5
474571 2004 EP_{40}	17.7	X	161.62977	221.97344	350.90873	10.47077	0.1989230	0.27485418	2.3427960	20	11 10.3	21.7
474572 2004 EW_{72}	18.1	X	246.33031	165.00422	352.97255	6.94330	0.1519890	0.28324503	2.2962959	20	12 16.1	20.7
474573 2004 ER_{81}	17.0	X	141.17562	158.25709	109.80159	5.41935	0.1703303	0.27901015	2.3194733	20	—	—
474574 2004 FG_{1}	19.4	X	331.48784	21.75994	187.37715	24.17591	0.2849981	0.42526916	1.7512983	20	—	—
474575 2004 FF_{18}	17.0	X	284.87558	66.86897	181.72537	23.93429	0.4573074	0.17284812	3.1917310	20	1 5.4	23.0
474576 2004 FU_{78}	16.9	X	179.76523	284.04561	182.81828	5.69966	0.0916433	0.20098880	2.8863886	20	7 15.9	21.4
474577 2004 FM_{91}	17.3	X	115.85373	147.80180	99.04275	8.74764	0.1861094	0.26967288	2.3727093	20	11 18.3	21.2
474578 2004 FP_{111}	18.1	X	92.29529	213.12782	21.79652	2.37032	0.1507031	0.26562361	2.3967621	20	10 7.1	21.7
474579 2004 FA_{116}	16.7	X	201.48830	120.93149	30.72281	17.35728	0.1871659	0.21268015	2.7796156	20	10 3.2	21.2
474580 2004 FL_{117}	16.5	X	23.73127	190.75394	23.31815	15.38009	0.2033316	0.19078649	2.9883925	20	5 26.8	19.9
474581 2004 FG_{132}	18.1	X	235.92157	343.27252	183.83447	6.02731	0.1044191	0.28219849	2.3019697	20	12 20.8	20.8
474582 2004 FP_{141}	16.0	X	29.03051	331.32550	194.89631	16.83633	0.1800311	0.18406717	3.0606839	20	4 1.8	19.1
474583 2004 GC_{18}	16.3	X	278.05803	94.90042	161.62135	17.91733	0.3551078	0.17381531	3.1798798	20	1 17.9	21.9
474584 2004 GM_{31}	16.4	X	301.14145	208.40291	40.64886	6.43627	0.1931085	0.17824413	3.1269857	20	2 22.3	20.8
474585 2004 HC_{2}	19.5	X	342.92503	303.14634	190.34208	55.02495	0.3114964	0.60336029	1.3870270	20	—	—
474586 2004 HL_{8}	17.6	X	149.33070	33.38698	189.53348	9.54771	0.1604585	0.27156389	2.3616817	20	11 17.9	21.4
474587 2004 HD_{25}	16.4	X	338.56570	172.34696	38.84241	13.87280	0.1407442	0.17979667	3.1089587	20	3 10.1	20.4
474588 2004 LX_{20}	16.4	X	288.10199	177.20136	121.05864	12.32033	0.1298397	0.17990798	3.1076763	20	4 18.2	21.0
474589 2004 LZ_{29}	18.2	X	140.06235	44.26475	254.58957	3.72324	0.1485633	0.33459005	2.0549158	20	—	—
474590 2004 NA_{14}	16.5	X	277.18698	203.09989	125.39572	16.57242	0.2705163	0.17534286	3.1613846	20	4 25.5	21.6
474591 2004 NN_{29}	16.0	X	286.61045	28.35236	280.15728	12.24743	0.1890239	0.17477783	3.1681944	20	4 9.6	20.9
474592 2004 PG_{30}	17.3	X	46.79696	333.26740	333.02021	4.55557	0.2254215	0.25475351	2.4644647	20	11 24.2	20.8
474593 2004 PU_{62}	16.5	X	247.24878	35.24601	342.83737	7.61108	0.3315818	0.17233779	3.1980287	20	5 12.9	22.0
474594 2004 PE_{84}	15.3	X	303.72645	303.01889	344.71620	33.66463	0.1711687	0.17058276	3.2199265	20	3 28.2	20.1
474595 2004 PH_{93}	16.5	X	252.28699	89.54645	293.98136	10.61598	0.3608099	0.17168943	3.2060750	20	5 21.6	22.1
474596 2004 RS_{40}	17.2	X	336.63213	275.28378	39.96067	14.61496	0.2892782	0.24315760	2.5422065	20	7 17.8	19.1
474597 2004 RW_{40}	17.9	X	0.50150	193.21316	170.99164	7.89547	0.1588869	0.25298578	2.4759316	20	11 29.1	20.6
474598 2004 RL_{42}	17.2	X	50.82639	167.66663	169.95605	15.01049	0.1606250	0.25755543	2.4465583	20	12 31.3	21.0
474599 2004 RY_{49}	18.4	X	324.51474	178.30529	168.71129	14.41334	0.2776566	0.24435015	2.5339282	20	8 1.3	20.3
474600 2004 RG_{110}	15.2	X	248.37590	108.08572	259.17034	20.06799	0.2011836	0.17166145	3.2064234	20	5 13.8	20.4
474601 2004 RS_{149}	17.7	X	303.39546	44.18805	325.12807	7.58434	0.2757799	0.24355818	2.5394183	20	7 20.5	20.0
474602 2004 RH_{158}	18.2	X	324.48321	151.57351	204.80948	7.01466	0.2590301	0.24506046	2.5290294	20	8 20.3	20.0
474603 2004 RL_{232}	17.7	X	310.20923	349.50378	9.80825	5.79079	0.1939906	0.24071896	2.5593471	20	8 3.3	20.2
474604 2004 RR_{236}	18.0	X	315.48401	153.70108	206.38613	3.49541	0.2120117	0.24378882	2.5378163	20	8 10.0	20.1
474605 2004 RD_{237}	16.0	X	311.15088	306.22599	346.25593	16.30182	0.1322519	0.17119986	3.2121843	20	4 28.9	20.6
474606 2004 RR_{242}	15.8	X	45.52548	241.24962	359.62082	8.86723	0.0666278	0.17759288	3.1346257	20	7 28.5	20.1
474607 2004 RG_{245}	18.1	X	320.66554	22.94807	38.24802	1.98326	0.2229109	0.25237061	2.4799535	20	12 6.8	19.9
474608 2004 RE_{327}	17.3	X	304.68084	162.40697	211.12997	6.92417	0.1458844	0.24358201	2.5392527	20	8 16.1	20.2
474609 2004 SY_{43}	17.9	X	329.59375	359.71536	332.77225	3.89738	0.3328312	0.24329952	2.5412178	20	7 16.4	19.1
474610 2004 SX_{49}	16.1	X	305.91921	279.51227	338.96300	25.16256	0.2762352	0.17113646	3.2129775	20	2 26.4	20.5
474611 2004 SB_{56}	19.2	X	359.97644	233.54394	302.05495	18.69404	0.2376803	1.22351523	0.8657579	20	—	—
474612 2004 TX_{18}	18.5	X	195.43289	152.56919	221.18187	19.01140	0.0661208	0.41045987	1.7931732	20	3 16.7	20.7
474613 2004 TL_{19}	20.9	X	318.44529	195.11210	209.58815	12.53342	0.5302313	0.24538908	2.5267711	20	9 2.9	21.4
474614 2004 TZ_{27}	17.3	X	57.89471	231.95521	14.94164	16.86021	0.0894376	0.24160000	2.5531212	20	9 6.6	20.8
474615 2004 TX_{42}	17.5	X	338.87507	100.97740	213.12994	15.86965	0.1948811	0.23895801	2.5719054	20	7 19.2	20.3
474616 2004 TV_{44}	17.2	X	326.58589	1.56738	22.76284	11.81436	0.1352789	0.24560331	2.5253015	20	10 18.8	19.4
474617 2004 TY_{57}	16.9	X	325.36483	346.09497	11.11638	15.57373	0.1380214	0.24361746	2.5390063	20	9 10.8	19.5
474618 2004 TT_{78}	17.6	X	288.83321	272.03463	201.34531	5.86267	0.0953992	0.25484130	2.4638987	20	12 22.1	20.3
474619 2004 TD_{98}	18.3	X	306.56641	195.32343	191.13932	5.10062	0.2624917	0.24279088	2.5447657	20	8 23.5	20.4
474620 2004 TH_{149}	17.4	X	278.85770	133.51381	264.51194	1.62887	0.2289563	0.23946475	2.5682758	20	7 26.8	20.6
474621 2004 TG_{159}	18.9	X	324.79096	349.47621	23.61562	12.28063	0.3243971	0.24426049	2.5345483	20	9 24.9	20.0
474622 2004 TL_{163}	17.2	X	350.36467	263.87835	40.39876	12.19080	0.2958558	0.24083896	2.5584968	20	8 21.4	19.0
474623 2004 TF_{177}	16.2	X	40.32281	224.49395	22.72549	10.93240	0.0260350	0.17284279	3.1917965	20	7 24.7	20.8
474624 2004 TL_{188}	16.1	X	90.61855	162.59886	13.44907	9.96675	0.0715430	0.16858888	3.2452645	20	7 2.7	20.9
474625 2004 TU_{196}	18.2	X	273.60843	207.95003	238.12297	1.20352	0.2145017	0.24433888	2.5340061	20	9 28.2	20.8
474626 2004 TR_{220}	18.0	X	2.70038	285.84909	32.86167	11.88859	0.2039311	0.24374006	2.5381548	20	10 3.8	20.4
474627 2004 TN_{230}	17.6	X	298.17690	174.81573	189.86022	4.75028	0.1195061	0.23863631	2.5742163	20	7 27.1	20.7
474628 2004 TX_{232}	17.9	X	313.62363	325.74639	24.07040	4.81771	0.2408085	0.23983615	2.5656236	20	7 17.8	20.3
474629 2004 TQ_{265}	19.5	X	320.72142	171.40406	208.10430	7.46099	0.3252485	0.24429736	2.5342933	20	9 12.4	20.7
474630 2004 TF_{269}	18.4	X	287.21396	199.44101	200.03030	4.30693	0.2566887	0.24005201	2.5640854	20	8 5.1	21.4
474631 2004 TG_{336}	17.1	X	243.43505	238.26582	220.38421	14.92540	0.0933190	0.24030536	2.5622829	20	9 16.9	20.9
474632 2004 TO_{342}	17.4	X	306.93518	164.55926	218.53892	6.57314	0.1963553	0.24103917	2.5570799	20	8 27.7	20.1
474633 2004 UT	16.0	X	219.91444	259.98433	126.36675	9.89028	0.3185387	0.16327036	3.3153635	20	5 10.0	22.1
474634 2004 UY	17.2	X	254.49280	232.78826	218.65019	30.53676	0.3734755	0.23857792	2.5746363	20	8 6.9	22.0
474635 2004 VN_{29}	18.1	X	256.51936	5.57346	62.73590	5.15517	0.2261009	0.23718610	2.5846985	20	8 10.3	21.7
474636 2004 VE_{63}	17.8	X	276.79107	140.99538	266.47314	3.16797	0.2574313	0.23874118	2.5734624	20	7 31.7	20.9
474637 2004 VG_{74}	17.8	X	282.63268	270.35593	145.48455	3.32632	0.2438524	0.24021377	2.5629341	20	8 25.5	20.6
474638 2004 VD_{75}	17.0	X	318.47476	301.94866	59.35282	15.18510	0.2881956	0.24145796	2.5541224	20	8 18.8	19.3
474639 2004 VH_{80}	17.3	X	314.26437	318.99167	80.78224	3.70453	0.0720211	0.24427092	2.5344761	20	10 21.9	20.1
474640 2004 VN_{112}	6.5	X	0.66785	326.72807	65.98670	25.58518	0.8553731	0.00016670	326.9690482	20	11 15.3	23.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
474641 2004 WL_8	17.2	X	282.14477	324.70664	63.55817	10.72723	0.2075468	0.23647492	2.5898781	20	7 23.9	20.5
474642 2004 XN_3	17.6	X	313.54115	1.54405	45.29612	2.96510	0.1592108	0.24371157	2.5383526	20	10 25.8	20.0
474643 2004 XX_{15}	18.0	X	269.56203	138.02025	267.17705	2.78391	0.2149928	0.23476310	2.6024526	20	7 25.4	21.4
474644 2004 XF_{21}	17.4	X	294.66160	345.36502	78.26532	14.26116	0.2401688	0.24219134	2.5489637	20	10 9.9	20.1
474645 2004 XS_{32}	17.0	X	344.58305	145.12964	245.21184	4.21557	0.2035223	0.24661589	2.5183843	20	12 10.1	19.1
474646 2004 XZ_{58}	16.7	X	190.45553	190.42103	294.60302	12.80705	0.1929979	0.22809279	2.6529456	20	8 14.1	21.2
474647 2004 XA_{59}	17.2	X	305.54891	101.87598	301.52303	8.33154	0.2074537	0.23871501	2.5736505	20	9 21.4	19.7
474648 2004 XW_{66}	17.6	X	214.14186	11.65227	79.77033	3.93741	0.0962211	0.22979253	2.6398472	20	8 6.5	21.5
474649 2004 XK_{93}	16.5	X	22.32766	42.82964	282.00351	8.66541	0.0639502	0.23808847	2.5781636	20	10 16.4	20.0
474650 2004 XK_{103}	16.5	X	275.85275	51.93603	73.68029	31.19901	0.2570128	0.24294195	2.5437107	20	11 25.7	19.1
474651 2004 XT_{108}	17.4	X	310.59436	351.22718	75.76279	6.46567	0.2696720	0.24371810	2.5383072	20	11 14.7	19.0
474652 2004 XO_{109}	16.9	X	235.55196	206.00448	254.19864	12.18879	0.1827977	0.23813259	2.5778452	20	8 25.6	21.0
474653 2004 XC_{119}	16.6	X	304.19111	128.13537	284.72665	7.76761	0.1566439	0.23908743	2.5709771	20	10 9.4	19.3
474654 2004 XF_{119}	17.5	X	275.93533	7.98594	54.87692	1.19574	0.1889963	0.23562169	2.5961266	20	9 3.0	20.5
474655 2004 XF_{133}	16.5	X	303.21763	346.47042	55.44383	8.78090	0.1907886	0.24043420	2.5613675	20	9 27.3	19.1
474656 2004 XS_{147}	17.4	X	319.89193	125.88494	288.56842	5.66213	0.2882826	0.24203151	2.5500857	20	11 18.2	18.8
474657 2004 YB_{13}	17.0	X	337.20151	66.76327	288.48056	13.88782	0.3012175	0.23758550	2.5818010	20	9 18.3	18.9
474658 2004 YG_{17}	17.1	X	324.90409	99.61252	297.97250	1.84748	0.2140936	0.24041038	2.5615367	20	11 3.1	19.1
474659 2004 YN_{25}	17.5	X	241.09751	213.17606	281.71362	3.83621	0.1740695	0.23717131	2.5848060	20	10 22.2	21.0
474660 2005 AT_1	16.4	X	245.66386	138.59251	297.36115	12.27301	0.2255494	0.23048159	2.6345830	20	8 3.8	20.3
474661 2005 AN_3	17.6	X	312.02705	293.23876	118.44521	6.75797	0.3000685	0.24212760	2.5494109	20	10 22.6	19.1
474662 2005 AL_4	17.7	X	292.47467	46.59154	15.01141	4.67309	0.2454799	0.23918988	2.5702430	20	9 21.7	20.0
474663 2005 AG_6	16.8	X	302.09736	347.98535	73.71937	5.82095	0.2452490	0.24000627	2.5644112	20	10 16.2	18.9
474664 2005 AC_{17}	16.9	X	318.83678	287.00219	124.57296	7.78138	0.1869308	0.24153988	2.5535448	20	11 15.0	19.2
474665 2005 AP_{21}	17.4	X	259.74458	37.94976	49.70677	3.83942	0.2594204	0.23537173	2.5979644	20	9 4.1	20.9
474666 2005 AE_{27}	16.5	X	298.25774	96.54579	303.40095	27.42819	0.2456373	0.23555458	2.5966197	20	8 18.0	19.6
474667 2005 AK_{42}	16.8	X	300.53883	0.97996	55.92262	9.19854	0.3172009	0.24021617	2.5629171	20	9 24.9	18.9
474668 2005 AO_{65}	17.4	X	319.75513	262.57198	126.89637	5.65482	0.3301301	0.23975106	2.5662306	20	10 3.3	18.5
474669 2005 AY_{77}	16.7	X	259.55287	100.19740	323.90272	15.25640	0.1449705	0.22914701	2.6448025	20	8 17.6	20.3
474670 2005 BP_9	16.5	X	317.66387	25.62097	20.60865	4.87011	0.2719275	0.23990556	2.5651287	20	10 27.2	18.1
474671 2005 BA_{14}	18.5	X	346.73364	229.61020	304.49202	17.96869	0.0467810	0.38985943	1.8557979	20	—	—
474672 2005 BQ_{14}	17.2	X	219.63117	183.20404	281.34398	10.79639	0.1401394	0.22978456	2.6399082	20	8 19.7	21.3
474673 2005 CF	17.0	X	257.61006	272.01432	208.24084	5.63170	0.2708239	0.23719209	2.5846550	20	10 10.9	20.2
474674 2005 CZ_6	19.1	X	295.00979	104.64622	326.93784	26.63915	0.4913927	0.24144206	2.5542345	20	8 21.6	21.4
474675 2005 CK_{22}	16.8	X	272.64545	100.13509	339.31856	11.76090	0.2755262	0.23639698	2.5904473	20	9 5.4	20.0
474676 2005 CL_{64}	16.9	X	163.28528	179.25494	333.80676	13.57266	0.1849418	0.22380823	2.6866969	20	8 28.3	21.5
474677 2005 EJ_{12}	16.7	X	199.27075	143.62953	7.50155	8.36897	0.1593122	0.22887481	2.6468991	20	9 29.6	20.6
474678 2005 ED_{31}	17.2	X	206.64293	107.70074	24.94818	4.46963	0.2658218	0.22721610	2.6597653	20	9 6.9	21.8
474679 2005 EX_{37}	16.3	X	162.20440	165.59650	334.23289	8.12011	0.1310508	0.21853821	2.7297181	20	8 11.8	20.5
474680 2005 EK_{62}	16.9	X	182.27102	135.40007	340.24427	7.19456	0.0304085	0.21940816	2.7224977	20	8 4.8	20.7
474681 2005 EY_{72}	16.7	X	201.75681	10.91084	131.62775	12.71735	0.1181937	0.22807035	2.6531196	20	9 29.2	20.8
474682 2005 EK_{73}	18.0	X	259.88178	307.55980	160.71205	4.99696	0.2406462	0.23682074	2.5873563	20	10 4.4	21.3
474683 2005 EB_{86}	17.2	X	268.60066	357.31671	131.07281	5.50347	0.2789706	0.23823678	2.5770935	20	11 8.8	20.0
474684 2005 EZ_{90}	18.7	X	74.77843	86.68861	340.79279	19.35043	0.0924300	0.38665832	1.8660265	20	—	—
474685 2005 ED_{94}	16.5	X	247.82933	114.54537	45.67900	30.76204	0.3197958	0.23569910	2.5955582	20	11 10.9	20.0
474686 2005 EJ_{114}	18.2	X	2.65153	232.00924	164.03415	6.42710	0.0543648	0.30080237	2.2060493	20	—	—
474687 2005 EL_{118}	16.6	X	241.92945	281.57861	180.47101	28.17147	0.3455222	0.23193648	2.6235540	20	8 18.8	21.3
474688 2005 ER_{141}	16.8	X	246.06510	294.72007	164.59111	7.28108	0.1610075	0.23141062	2.6275270	20	9 14.9	20.4
474689 2005 EL_{208}	18.7	X	104.64591	58.68129	184.33286	1.84386	0.1704130	0.28793172	2.2713098	20	11 3.6	22.2
474690 2005 EU_{212}	17.5	X	256.19656	82.68122	1.25016	5.00630	0.3214924	0.23034153	2.6356509	20	8 16.5	21.4
474691 2005 EL_{214}	17.4	X	241.17967	120.66071	21.93400	6.20609	0.2570900	0.23536609	2.5980058	20	10 21.6	21.0
474692 2005 EW_{240}	17.0	X	269.78677	354.08477	125.89886	7.78440	0.2415306	0.23843153	2.5756900	20	11 6.7	20.0
474693 2005 ED_{244}	17.1	X	344.26972	171.78563	178.26366	13.98677	0.0876708	0.22318392	2.6917049	20	9 25.9	20.2
474694 2005 EG_{294}	16.6	X	217.84408	135.42100	354.78219	15.23054	0.1981448	0.23012068	2.6373369	20	9 18.1	20.4
474695 2005 EQ_{294}	17.1	X	359.07429	76.89065	207.76128	3.72489	0.0336197	0.21040250	2.7996396	20	7 15.6	20.8
474696 2005 EC_{316}	17.4	X	291.45128	341.08286	61.20032	3.22765	0.1459150	0.22401974	2.6850055	20	9 5.6	20.5
474697 2005 ET_{330}	16.6	X	199.28789	182.19891	341.93799	12.82455	0.0948579	0.22795286	2.6540312	20	10 15.9	20.7
474698 2005 GT_1	16.9	X	235.54903	68.55436	26.42393	14.00254	0.0925909	0.22106167	2.7089049	20	9 10.6	20.8
474699 2005 GV_{34}	16.2	X	313.41627	87.83208	143.15117	13.57762	0.4116830	0.18773003	3.0207414	20	1 11.7	20.9
474700 2005 GD_{41}	16.6	X	119.55825	37.37810	160.13196	15.73327	0.2232651	0.21551156	2.7552161	20	9 16.7	21.3
474701 2005 GW_{79}	18.2	X	227.88036	80.93283	197.49925	21.48637	0.0754213	0.37947280	1.8895089	20	—	—
474702 2005 GA_{87}	16.8	X	101.94489	178.56569	31.55754	7.34028	0.1203380	0.21394818	2.7686219	20	9 9.3	20.9
474703 2005 GW_{100}	18.0	X	255.66271	331.04981	194.73486	5.24388	0.1036435	0.30125331	2.2038473	20	—	—
474704 2005 GU_{111}	17.6	X	322.82161	198.87239	40.15469	22.83753	0.0703773	0.38872495	1.8594069	20	3 15.5	19.8
474705 2005 GG_{117}	17.0	X	190.31934	144.23337	21.58697	13.26910	0.1315484	0.22397512	2.6853622	20	10 10.9	21.0
474706 2005 GC_{141}	19.5	X	107.25243	40.58536	185.96054	28.27932	0.1991021	0.54205621	1.4897263	20	11 26.9	21.7
474707 2005 GJ_{150}	16.7	X	53.54368	195.30640	68.01903	9.15064	0.1782211	0.21139678	2.7908541	20	9 30.0	20.6
474708 2005 GV_{156}	17.0	X	133.48442	153.60277	40.63713	10.74689	0.1482009	0.21733889	2.7397510	20	9 24.9	21.5
474709 2005 GF_{170}	15.1	X	338.28486	342.66322	215.76975	13.16015	0.1937787	0.12489171	3.9638174	20	2 13.3	20.2
474710 2005 GF_{178}	18.0	X	176.05805	127.90784	98.48787	4.29785	0.0560205	0.29519980	2.2338740	20	—	—
474711 2005 GC_{216}	17.1	X	306.76744	338.75165	33.49295	5.91924	0.0078008	0.21806892	2.7336330	20	9 3.9	20.8
474712 2005 GA_{221}	17.0	X	211.80592	298.27085	218.94306	11.16076	0.1428935	0.22757939	2.6569340	20	10 20.5	20.9
474713 2005 GC_{223}	17.1	X	220.89132	268.57729	178.65133	3.82824	0.0674003	0.21399769	2.7681949	20	8 8.6	21.2
474714 2005 HY	18.0	X	104.34605	219.61372	40.08455	3.00111	0.2113329	0.28552823	2.2840381	20	11 24.9	21.8
474715 2005 JK_{11}	17.4	X	282.33383	309.84041	54.99086	0.67426	0.0858376	0.20863299	2.8154472	20	7 7.4	21.1
474716 2005 JS_{34}	18.3	X	81.01209	134.98974	140.77766	5.38289	0.2131832	0.28115527	2.3076604	20	11 25.6	22.0
474717 2005 JA_{55}	18.1	X	287.75522	33.53677	116.66539	6.35525	0.1319038	0.30137454	2.2032563	20	—	—
474718 2005 JQ_{98}	18.0	X	278.23252	8.13301	222.61377	20.34593	0.0537490	0.37672945	1.8986708	20	—	—
474719 2005 JM_{119}	17.8	X	148.05926	38.43017	198.92823	6.08393	0.1123425	0.28907608	2.2653116	20	12 8.6	21.0
474720 2005 JO_{177}	16.6	X	63.36596	5.13858	223.51507	8.26656	0.1251648	0.20887531	2.8132693	20	8 11.4	20.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
474721 2005 KJ_{1}	18.2	X	88.87419	93.30564	205.58408	9.59652	0.1951538	0.28644628	2.2791554	20	12 28.5	21.9
474722 2005 LW_{41}	17.7	X	52.74761	75.95197	249.44577	4.59757	0.2571797	0.28124903	2.3071475	20	—	—
474723 2005 LM_{44}	17.6	X	88.31979	191.42171	97.40163	10.71432	0.1927650	0.28495032	2.2871253	20	12 16.6	21.3
474724 2005 LM_{48}	18.2	X	50.93631	55.81513	280.25857	5.98539	0.3092770	0.27811801	2.3244309	20	—	—
474725 2005 MP_{21}	16.4	X	277.99626	215.57638	126.39971	13.68088	0.1513809	0.18830822	3.0145548	20	5 25.6	20.9
474726 2005 MM_{28}	15.9	X	332.03927	17.26622	277.48652	12.42789	0.1440516	0.19244552	2.9711929	20	6 11.3	19.3
474727 2005 MG_{29}	16.3	X	244.24930	78.22286	268.27244	9.62450	0.0261140	0.18402905	3.0611067	20	5 1.1	20.7
474728 2005 MJ_{33}	16.5	X	349.16392	346.17382	287.34041	14.51071	0.1106549	0.19275879	2.9679728	20	6 14.8	20.1
474729 2005 ML_{33}	16.3	X	292.63618	179.73136	132.94292	11.78629	0.1162942	0.18824621	3.0152169	20	5 12.6	20.6
474730 2005 MA_{34}	17.3	X	29.79459	0.50870	299.35752	6.13205	0.2452965	0.27048653	2.3679487	20	10 30.4	20.2
474731 2005 ML_{40}	17.7	X	39.22423	203.67070	141.21671	6.35292	0.2544882	0.27729754	2.3290137	20	—	—
474732 2005 NT_{1}	16.1	X	322.83919	224.73834	114.49332	16.12011	0.1538402	0.20299995	2.8672932	20	7 27.9	19.3
474733 2005 NH_{17}	18.4	X	18.95799	209.76169	128.71850	3.10069	0.2215971	0.27278265	2.3546420	20	12 7.0	21.0
474734 2005 NZ_{17}	16.6	X	344.10887	346.14110	290.87997	4.87163	0.1867404	0.19301094	2.9653873	20	6 5.4	19.7
474735 2005 NU_{25}	16.2	X	342.19769	314.92697	289.96411	11.43252	0.1136271	0.18577706	3.0418747	20	4 18.6	20.2
474736 2005 NT_{28}	18.2	X	51.96378	152.83059	153.61518	6.51673	0.2342576	0.27490622	2.3425004	20	12 6.9	21.7
474737 2005 NF_{30}	18.0	X	25.20718	38.74781	316.54276	1.62249	0.2307020	0.27628745	2.3346867	20	—	—
474738 2005 NE_{35}	16.9	X	227.47680	258.75163	96.37327	2.97324	0.1885251	0.18125978	3.0922060	20	4 13.5	21.9
474739 2005 NK_{54}	18.4	X	20.58188	123.88309	241.64376	2.14834	0.2197374	0.27636875	2.3342288	20	—	—
474740 2005 NG_{71}	18.3	X	63.96701	7.22723	310.27914	4.83146	0.1937907	0.27774854	2.3264918	20	12 28.3	21.7
474741 2005 NB_{78}	16.9	X	244.59801	226.10821	132.68235	4.26559	0.2429559	0.18345769	3.0674590	20	4 28.9	22.0
474742 2005 NM_{107}	17.6	X	220.50663	249.73368	153.57186	1.49706	0.1948991	0.18855334	3.0119418	20	6 2.6	22.4
474743 2005 ON_{8}	18.2	X	45.80126	163.75658	146.41996	9.64259	0.2442903	0.27431647	2.3458566	20	12 7.1	21.7
474744 2005 OU_{12}	15.6	X	261.09419	233.41452	139.54367	16.56922	0.1747947	0.18607570	3.0386191	20	6 9.8	20.4
474745 2005 OR_{17}	18.1	X	10.17082	123.38485	223.23969	4.02625	0.2519199	0.27052246	2.3677390	20	12 9.6	20.5
474746 2005 OC_{23}	18.5	X	100.29088	12.42028	249.62286	4.02050	0.2096925	0.27853421	2.3221148	20	11 23.4	22.3
474747 2005 OW_{28}	16.7	X	310.58917	309.33790	355.05607	12.78774	0.2963340	0.18964840	3.0003362	20	4 19.8	20.7
474748 2005 PB_{4}	17.6	X	56.29191	337.22346	328.79431	3.37132	0.3368074	0.27583460	2.3372413	20	12 19.4	21.4
474749 2005 PN_{9}	18.0	X	48.27385	182.53435	119.86349	2.10924	0.1796976	0.27260783	2.3556485	20	11 20.2	21.0
474750 2005 PV_{28}	16.5	X	254.08998	40.90982	323.24924	9.52349	0.0821141	0.18423793	3.0587926	20	5 29.0	21.1
474751 2005 QE_{12}	16.1	X	210.78311	50.63312	321.41141	16.15787	0.1601757	0.17816798	3.1278767	20	4 10.9	21.6
474752 2005 QV_{23}	17.7	X	353.86916	300.76289	32.70073	1.86636	0.2013327	0.26399136	2.4066314	20	10 9.3	19.4
474753 2005 QM_{25}	16.5	X	291.55195	267.96092	6.46528	13.42033	0.3010381	0.17936300	3.1139680	20	2 28.8	21.3
474754 2005 QC_{33}	17.9	X	47.13863	345.50903	329.13628	4.68120	0.2208928	0.27372019	2.3492622	20	12 9.1	21.2
474755 2005 QO_{34}	18.3	X	78.47666	135.57998	160.96376	3.37339	0.2339585	0.27682649	2.3316550	20	12 18.4	22.0
474756 2005 QR_{36}	16.6	X	262.72241	212.14561	178.10124	8.10096	0.4110483	0.18465885	3.0541425	20	6 4.4	21.8
474757 2005 QD_{44}	18.1	X	355.36818	230.00892	143.01534	1.73512	0.1986808	0.27048688	2.3679467	20	12 13.4	20.3
474758 2005 QU_{48}	18.0	X	24.38365	218.68833	107.31697	3.54007	0.1985473	0.26949850	2.3737327	20	11 23.5	20.8
474759 2005 QK_{50}	16.1	X	265.51933	6.69523	6.59796	12.58282	0.1358517	0.18528322	3.0472774	20	6 17.0	20.7
474760 2005 QR_{54}	16.2	X	289.04460	178.71782	158.97205	5.18634	0.2115393	0.18654203	3.0335530	20	5 22.8	20.3
474761 2005 QU_{57}	15.9	X	265.03343	3.57127	345.19596	20.91346	0.1908258	0.18306762	3.0718148	20	4 30.1	21.0
474762 2005 QQ_{66}	17.2	X	82.94577	336.25127	13.70603	6.03063	0.1875456	0.28273164	2.2990748	20	—	—
474763 2005 QQ_{75}	17.1	X	19.56274	9.34423	2.08067	6.68872	0.4371760	0.27397678	2.3477952	20	—	—
474764 2005 QS_{81}	18.0	X	37.17006	286.37115	37.28906	1.72514	0.2050160	0.27268332	2.3552138	20	12 7.6	20.9
474765 2005 QT_{83}	16.3	X	278.12342	175.14835	177.35091	25.28755	0.2776696	0.18465120	3.0542269	20	5 20.8	21.3
474766 2005 QS_{91}	18.2	X	44.19485	77.06527	259.46444	1.41875	0.2347329	0.27436445	2.3455831	20	—	—
474767 2005 QB_{94}	17.8	X	16.43912	317.35803	32.21564	2.68603	0.2160002	0.27037547	2.3685971	20	12 16.4	20.6
474768 2005 QD_{107}	16.4	X	256.91257	19.50784	7.56601	14.05170	0.2936886	0.18517604	3.0484532	20	6 3.6	21.5
474769 2005 QK_{109}	16.1	X	195.62617	244.06993	172.23607	16.52229	0.2301782	0.17800151	3.1298265	20	5 29.4	21.8
474770 2005 QE_{111}	17.2	X	302.71202	32.65897	350.08341	6.59009	0.1331971	0.26139019	2.4225711	20	9 3.9	19.5
474771 2005 QE_{117}	18.1	X	23.11485	204.98498	140.68041	1.82826	0.2006861	0.27228281	2.3575228	20	12 18.5	20.8
474772 2005 QZ_{118}	16.7	X	195.33278	252.51463	150.64106	4.07549	0.1842068	0.17840570	3.1250975	20	5 13.3	21.9
474773 2005 QP_{119}	17.2	X	265.78907	216.40118	135.39258	1.75772	0.1540239	0.18468470	3.0538576	20	5 19.8	21.7
474774 2005 QN_{122}	17.0	X	267.99925	90.48993	270.47915	0.65359	0.2137837	0.18531080	3.0469750	20	5 25.5	21.5
474775 2005 QK_{123}	16.4	X	242.83157	43.98877	344.13275	9.09375	0.0309649	0.18587809	3.0407724	20	6 23.9	20.8
474776 2005 QQ_{123}	17.1	X	221.28610	129.79075	249.02145	0.25691	0.1825734	0.17905382	3.1175516	20	5 5.3	22.2
474777 2005 QL_{126}	17.0	X	271.56931	341.36984	33.71686	1.01887	0.0660992	0.18848449	3.0126752	20	7 8.5	21.2
474778 2005 QN_{128}	16.2	X	151.48853	320.11114	149.44840	9.74637	0.0602144	0.18283895	3.0743754	20	6 18.8	20.9
474779 2005 QK_{131}	17.6	X	217.76797	197.95829	14.58194	6.73083	0.0291799	0.28363569	2.2941869	20	—	—
474780 2005 QN_{132}	16.0	X	279.34749	335.51107	1.59182	10.30392	0.2367410	0.18487809	3.0517276	20	5 1.9	20.5
474781 2005 QS_{133}	16.6	X	280.29673	206.85997	147.33025	0.49611	0.1698954	0.18574690	3.0422040	20	6 6.8	20.8
474782 2005 QQ_{136}	18.0	X	337.11911	321.63536	89.63590	2.39049	0.1854565	0.27112046	2.3642561	20	—	—
474783 2005 QR_{138}	17.4	X	233.44699	275.84742	105.65099	2.15554	0.1824744	0.18044369	3.1015224	20	5 19.9	22.4
474784 2005 QW_{139}	17.0	X	258.69196	270.85751	74.74263	1.86478	0.1718477	0.18096739	3.0955358	20	5 2.1	21.5
474785 2005 QX_{139}	16.7	X	197.23351	41.90373	5.08575	6.03503	0.1389607	0.17812604	3.1283676	20	5 17.8	21.8
474786 2005 QJ_{141}	16.0	X	266.31373	138.31532	230.47878	16.60396	0.3216999	0.18472962	3.0533624	20	5 20.9	21.0
474787 2005 QK_{147}	15.8	X	219.00774	26.10160	352.01190	18.75529	0.2612700	0.17950736	3.1122983	20	4 21.0	21.4
474788 2005 QE_{151}	16.3	X	238.89980	352.88147	2.45362	9.42088	0.1685156	0.17791975	3.1307853	20	4 21.7	21.3
474789 2005 QH_{159}	15.6	X	222.59347	328.78352	12.00663	15.03082	0.2825040	0.17502186	3.1652488	20	3 20.9	21.3
474790 2005 QV_{167}	17.5	X	124.42305	145.59410	176.25074	22.79606	0.0784237	0.35504331	1.9752186	20	—	—
474791 2005 QF_{179}	18.6	X	47.43414	246.42648	84.90137	2.39267	0.2047949	0.27408205	2.3471940	20	12 29.2	21.8
474792 2005 QV_{186}	16.6	X	269.20794	193.76922	168.36206	13.75877	0.2528939	0.18434700	3.0575859	20	5 25.9	21.5
474793 2005 QD_{187}	17.9	X	298.50666	15.17845	24.13067	2.70433	0.2170913	0.26227555	2.4171161	20	9 9.9	19.7
474794 2005 QX_{188}	16.6	X	250.54980	186.96508	186.64130	6.27254	0.1812754	0.18248982	3.0782954	20	5 27.6	21.4
474795 2005 QE_{190}	16.3	X	331.08324	107.96848	172.52738	8.82744	0.0560636	0.18394436	3.0620462	20	5 30.6	20.5
474796 2005 RW_{5}	17.9	X	37.13809	92.21358	263.64643	1.12382	0.2366930	0.27572550	2.3378578	20	—	—
474797 2005 RO_{22}	17.4	X	1.12198	36.88644	343.19119	10.03516	0.2176822	0.27043869	2.3682279	20	—	—
474798 2005 RD_{28}	15.5	X	292.20138	333.44682	342.55448	17.04496	0.2835589	0.18267376	3.0762285	20	4 9.9	20.3
474799 2005 RL_{29}	16.8	X	255.44044	19.44750	349.02558	3.85583	0.1658544	0.18386649	3.0629106	20	5 26.3	21.5
474800 2005 RA_{41}	18.2	X	337.41468	242.86592	127.53575	2.18350	0.1981238	0.26624199	2.3930495	20	11 1.2	19.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
474801 2005 RD_{42}	18.1	X	26.68253	104.81699	203.49807	3.16183	0.2001688	0.26756687	2.3851434	20	11 1.8	20.7
474802 2005 RB_{43}	16.8	X	293.10971	5.24374	347.65963	10.13521	0.0953820	0.18789223	3.0190027	20	7 5.9	21.0
474803 2005 RD_{44}	16.6	X	287.82965	115.00874	236.97072	10.04868	0.2267556	0.18519342	3.0482624	20	6 5.2	20.7
474804 2005 SB_{6}	17.3	X	336.52788	176.67821	247.98269	3.44786	0.1150371	0.27105541	2.3646344	20	—	—
474805 2005 SQ_{11}	16.8	X	237.35428	341.13884	32.85370	1.76509	0.2081979	0.17845835	3.1244828	20	5 11.8	21.7
474806 2005 SV_{11}	16.6	X	207.69628	232.17399	180.89758	5.75547	0.1782541	0.17742720	3.1365767	20	6 4.5	21.8
474807 2005 SZ_{11}	18.3	X	23.62827	201.18809	144.74588	1.70663	0.2092179	0.26979076	2.3720181	20	12 20.2	21.1
474808 2005 SW_{13}	18.3	X	24.45175	132.40075	188.20274	12.98972	0.2946801	0.26814372	2.3817214	20	12 1.7	21.5
474809 2005 SE_{14}	16.7	X	213.95867	33.35642	11.59696	9.07739	0.0908359	0.17922425	3.1155749	20	6 3.1	21.5
474810 2005 SA_{16}	18.1	X	29.24044	114.45778	217.79293	2.32707	0.2645064	0.27044136	2.3682124	20	12 17.4	21.1
474811 2005 SY_{16}	16.3	X	278.38200	341.94296	0.23841	9.59308	0.0758079	0.18163670	3.0879267	20	5 31.7	20.7
474812 2005 SR_{17}	16.0	X	266.18743	309.19862	10.73357	21.45126	0.1697200	0.17740971	3.1367829	20	4 6.6	20.8
474813 2005 SH_{18}	18.4	X	0.66368	172.39155	222.83855	0.73904	0.1836484	0.27233954	2.3571954	20	—	—
474814 2005 SQ_{23}	15.6	X	207.67515	37.19439	10.65063	28.12605	0.1810136	0.17911132	3.1168844	20	5 17.3	21.2
474815 2005 SO_{25}	17.0	X	215.98161	257.89837	118.76743	2.13088	0.1919788	0.17621073	3.1509957	20	4 28.6	22.3
474816 2005 SZ_{33}	17.6	X	324.43184	329.62488	78.80938	3.55145	0.1874897	0.26622883	2.3931284	20	11 30.1	19.2
474817 2005 SU_{37}	15.8	X	228.19782	8.76204	12.46461	15.19786	0.0660176	0.17861860	3.1226137	20	5 19.3	20.7
474818 2005 SZ_{38}	18.2	X	317.67865	232.91961	190.45441	1.00417	0.1652049	0.26820368	2.3813664	20	12 7.9	19.9
474819 2005 SK_{39}	17.4	X	229.06961	250.55144	147.33236	0.25478	0.2231284	0.17964132	3.1107508	20	6 1.4	22.4
474820 2005 SN_{39}	16.9	X	254.88737	225.32091	142.79726	0.52377	0.1400724	0.18106426	3.0944316	20	5 29.4	21.6
474821 2005 SW_{40}	17.8	X	130.49022	249.08110	15.19992	5.23947	0.0900745	0.27517531	2.3409730	20	12 21.6	21.2
474822 2005 SZ_{41}	17.8	X	308.65549	221.73380	246.17020	3.36063	0.0842892	0.27465830	2.3439098	20	—	—
474823 2005 SS_{42}	16.4	X	231.05371	143.97459	207.00043	14.06489	0.0940629	0.17342686	3.1846263	20	4 17.6	21.2
474824 2005 SK_{43}	16.7	X	177.38158	197.70953	211.61838	9.09431	0.1593945	0.17154483	3.2078764	20	5 4.9	21.9
474825 2005 SX_{43}	17.9	X	3.62209	104.56824	253.06806	1.67565	0.1840630	0.26713958	2.3876860	20	12 1.8	20.3
474826 2005 SY_{48}	18.3	X	45.82211	142.25447	195.37981	5.34878	0.2872505	0.27321702	2.3521457	20	—	—
474827 2005 SA_{50}	16.9	X	251.93237	185.47168	199.88400	2.18450	0.1783122	0.18142055	3.0903789	20	6 12.2	21.5
474828 2005 SH_{51}	17.9	X	210.66020	61.83334	200.21542	20.88241	0.0342618	0.35368722	1.9802642	20	—	—
474829 2005 ST_{55}	18.0	X	358.36181	225.75430	124.11010	0.39116	0.2434206	0.26542809	2.3979390	20	11 20.7	20.0
474830 2005 SP_{56}	15.8	X	276.01137	286.88170	26.69687	17.32446	0.1119033	0.17481184	3.1677834	20	4 18.9	20.4
474831 2005 SJ_{59}	16.5	X	247.70004	327.97382	22.97546	3.25412	0.1222205	0.17660092	3.1463528	20	5 1.8	21.1
474832 2005 SQ_{59}	16.5	X	322.87184	89.21228	199.09631	20.30851	0.2130802	0.18246027	3.0786277	20	5 9.3	20.2
474833 2005 SB_{63}	18.0	X	25.02174	3.00142	356.41479	3.52033	0.2599509	0.27282824	2.3543797	20	—	—
474834 2005 SF_{63}	18.5	X	17.76876	123.38909	217.95175	0.86918	0.1994047	0.26911463	2.3759895	20	12 4.3	21.2
474835 2005 SV_{63}	17.6	X	246.77485	266.07123	193.87792	2.11111	0.1641057	0.26033111	2.4291370	20	9 19.5	20.5
474836 2005 SA_{64}	17.9	X	95.23963	87.51193	190.43930	3.79141	0.1774562	0.27236970	2.3570214	20	12 6.4	21.7
474837 2005 SA_{67}	16.5	X	246.90086	199.66968	187.44466	8.73301	0.0966186	0.18248113	3.0783931	20	6 18.6	21.2
474838 2005 SD_{67}	16.8	X	276.10347	147.80727	189.50273	8.92753	0.0821296	0.18043895	3.1015767	20	5 24.9	21.2
474839 2005 SM_{67}	16.7	X	149.27071	255.94886	188.87974	8.58913	0.0620160	0.17472140	3.1688765	20	5 17.2	21.5
474840 2005 SM_{68}	16.6	X	221.66576	34.76568	333.03082	3.64151	0.1600676	0.17494202	3.1662118	20	4 22.5	21.7
474841 2005 SB_{73}	16.0	X	238.88815	130.14363	236.53915	4.92612	0.2632471	0.17762023	3.1343038	20	4 29.9	21.4
474842 2005 SX_{74}	18.2	X	358.55159	166.55457	187.13538	2.54849	0.1844129	0.26691648	2.3890164	20	11 17.8	20.3
474843 2005 SR_{75}	17.9	X	347.77775	11.99262	10.11715	1.26703	0.1998190	0.26835096	2.3804950	20	12 11.8	19.9
474844 2005 SC_{76}	16.8	X	167.53847	233.17149	183.72070	9.29935	0.0765323	0.17352555	3.1834187	20	5 3.8	21.6
474845 2005 SK_{76}	17.7	X	343.08584	72.83801	7.22245	6.93549	0.1719213	0.27593144	2.3366945	20	—	—
474846 2005 SR_{76}	16.2	X	267.94290	200.39209	148.77770	1.41079	0.1920046	0.18201622	3.0836328	20	5 14.0	20.7
474847 2005 SG_{77}	17.9	X	11.41255	339.46748	17.62347	3.05683	0.1904039	0.26955946	2.3733748	20	12 14.9	20.6
474848 2005 SX_{80}	17.1	X	261.82335	150.27206	181.72661	13.47746	0.1998406	0.17899176	3.1182722	20	4 17.2	21.9
474849 2005 SK_{82}	16.5	X	245.75370	348.69060	0.03727	4.86212	0.1378633	0.17725530	3.1386042	20	4 24.5	21.3
474850 2005 SN_{83}	17.8	X	335.75099	25.15747	5.10020	4.78458	0.1957263	0.26672587	2.3901544	20	11 26.6	19.8
474851 2005 SX_{84}	16.9	X	249.86303	87.05848	287.74250	0.35571	0.1180595	0.18095711	3.0956530	20	6 3.6	21.4
474852 2005 SN_{87}	16.8	X	269.60589	190.84110	160.28940	1.83949	0.1213305	0.18164454	3.0878379	20	5 27.9	21.2
474853 2005 SL_{90}	16.5	X	210.99029	14.83985	20.80913	10.73985	0.2187053	0.17498925	3.1656420	20	5 12.6	21.9
474854 2005 SD_{91}	17.9	X	351.98424	16.19585	11.33574	2.44303	0.2379525	0.26833751	2.3805746	20	—	—
474855 2005 SO_{92}	18.2	X	350.99110	142.64593	208.85911	1.04922	0.1805133	0.26384908	2.4074965	20	10 28.4	20.0
474856 2005 SQ_{93}	16.0	X	181.51218	73.25866	24.64977	11.55302	0.0575334	0.17972664	3.1097662	20	7 8.7	20.8
474857 2005 SY_{97}	16.3	X	267.43478	154.42849	222.21724	10.80318	0.2581095	0.18388905	3.0626601	20	6 8.1	21.0
474858 2005 SO_{101}	18.2	X	53.44071	50.09766	256.21116	3.27724	0.2210680	0.26972092	2.3724276	20	12 4.8	21.6
474859 2005 SR_{101}	16.5	X	199.55217	171.58919	228.44645	8.21579	0.0985553	0.17476180	3.1683881	20	5 14.6	21.3
474860 2005 SZ_{114}	17.8	X	18.00855	111.92332	222.65493	1.54316	0.2263766	0.26766039	2.3845877	20	11 29.5	20.3
474861 2005 SW_{129}	16.5	X	284.95715	264.96053	58.70196	1.08633	0.1750219	0.17957978	3.1114615	20	5 4.0	20.8
474862 2005 SR_{131}	16.4	X	206.36082	188.96859	204.25739	7.11854	0.1672038	0.17447053	3.1719135	20	5 11.1	21.5
474863 2005 SS_{131}	18.6	X	62.86725	322.29612	358.34248	1.17564	0.2064759	0.27331514	2.3515827	20	12 31.2	22.1
474864 2005 SQ_{136}	18.2	X	48.87194	127.29202	179.25124	3.33309	0.1722154	0.26982807	2.3717994	20	11 24.8	21.4
474865 2005 SH_{137}	18.5	X	329.67357	258.27594	162.23301	1.26974	0.1691445	0.26992293	2.3712437	20	12 29.9	20.4
474866 2005 SB_{138}	17.0	X	250.12932	110.30500	234.46383	14.31663	0.2997825	0.17982156	3.1086718	20	4 8.1	22.5
474867 2005 SO_{138}	16.4	X	282.46863	274.80949	16.19103	15.95592	0.0553250	0.17348074	3.1839669	20	4 7.2	20.9
474868 2005 SE_{139}	18.1	X	273.69778	282.83640	150.20851	2.76121	0.1832937	0.26118763	2.4238235	20	9 19.4	20.5
474869 2005 SN_{142}	16.8	X	286.61285	213.19396	102.03946	3.96852	0.1732298	0.18063476	3.0993349	20	4 27.2	21.1
474870 2005 SU_{142}	16.3	X	320.45436	185.42158	82.89819	4.58861	0.1426490	0.17840737	3.1250779	20	4 19.2	20.3
474871 2005 SH_{143}	16.2	X	273.40602	332.50643	25.12247	11.80158	0.0740993	0.18293761	3.0732699	20	6 15.3	20.7
474872 2005 SO_{144}	16.9	X	221.62234	177.95626	176.60669	10.17373	0.1273912	0.17358455	3.1826973	20	4 11.7	21.9
474873 2005 ST_{144}	16.7	X	174.30282	24.64355	23.87567	11.23999	0.1029579	0.17270860	3.1934496	20	4 28.0	21.7
474874 2005 SG_{147}	16.2	X	294.97776	127.54067	192.60106	7.05042	0.2210949	0.18208815	3.0828207	20	5 6.6	20.4
474875 2005 SZ_{147}	18.2	X	332.57557	346.91490	51.40472	2.45776	0.1670653	0.26620148	2.3932923	20	11 30.2	20.1
474876 2005 SC_{148}	16.8	X	258.27711	303.02620	68.25787	1.84638	0.1908743	0.18091506	3.0961328	20	5 30.8	21.6
474877 2005 SM_{148}	17.4	X	351.69248	317.84656	45.29716	2.91570	0.2175994	0.26534953	2.3984123	20	11 22.6	19.4
474878 2005 SJ_{149}	16.3	X	257.92698	298.18178	38.55385	9.73528	0.1004447	0.17542041	3.1604528	20	4 28.6	21.0
474879 2005 SM_{150}	16.4	X	255.87496	229.43831	113.51001	2.12915	0.1838052	0.17724657	3.1387073	20	4 25.3	21.2
474880 2005 SO_{150}	16.8	X	264.70656	237.51463	125.01402	2.77285	0.1512503	0.18025490	3.1036875	20	6 1.4	21.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
474881 2005 SK_{152}	16.0	X	242.65578	14.97738	40.57749	12.83427	0.2157776	0.18215434	3.0820738	20	7 6.9	21.1
474882 2005 SQ_{153}	16.5	X	182.26022	50.74444	353.55350	9.91540	0.0543292	0.17453993	3.1710725	20	4 28.4	21.4
474883 2005 SO_{160}	17.3	X	225.62483	74.48924	357.19745	5.12982	0.1986466	0.18321854	3.0701276	20	7 12.3	22.2
474884 2005 SD_{161}	16.7	X	143.21938	267.41859	190.61269	15.21489	0.2117627	0.17278555	3.1925014	20	6 4.9	22.2
474885 2005 SU_{168}	16.8	X	216.54216	177.91729	214.59789	10.47430	0.1229603	0.17803287	3.1294589	20	5 21.7	21.7
474886 2005 SJ_{169}	16.3	X	195.25099	133.34959	261.65220	3.35388	0.1724487	0.17393243	3.1784521	20	5 1.9	21.5
474887 2005 SJ_{170}	17.8	X	335.34710	64.05475	325.66836	3.37979	0.2026315	0.26650225	2.3914913	20	11 25.9	19.7
474888 2005 SR_{170}	17.9	X	314.71002	106.02159	344.41824	5.81630	0.1160513	0.27269194	2.3551641	20	—	—
474889 2005 SA_{171}	18.0	X	9.37264	61.99392	308.72351	2.09177	0.1785392	0.27070671	2.3666645	20	12 29.4	20.5
474890 2005 SJ_{173}	16.4	X	233.11158	147.72707	202.32207	11.58399	0.1585841	0.17556973	3.1586606	20	4 13.5	21.3
474891 2005 SL_{173}	17.8	X	102.21068	318.01297	342.59701	6.55291	0.1289631	0.27762586	2.3271771	20	—	—
474892 2005 SH_{175}	16.7	X	175.30456	120.29540	354.44066	12.80722	0.1512497	0.18162208	3.0880924	20	7 24.5	21.9
474893 2005 SK_{176}	16.1	X	191.74377	245.64281	218.30416	7.11828	0.1183226	0.18370620	3.0646920	20	7 21.9	21.0
474894 2005 ST_{177}	16.8	X	235.23271	101.09829	210.12522	12.62634	0.1854346	0.17044018	3.2217220	20	2 25.1	22.3
474895 2005 SV_{182}	16.5	X	232.93312	143.33211	207.74517	15.41016	0.0903508	0.17334010	3.1856888	20	4 20.1	21.4
474896 2005 SH_{183}	16.2	X	242.23533	332.60868	15.75288	27.92069	0.0767801	0.17464029	3.1698575	20	4 20.8	21.2
474897 2005 SG_{184}	16.7	X	207.38218	194.13895	208.64099	10.14630	0.0928386	0.17670502	3.1451169	20	5 26.8	21.6
474898 2005 SJ_{184}	17.6	X	314.28872	181.15995	238.15363	2.28516	0.1927950	0.26596566	2.3947067	20	11 23.2	19.3
474899 2005 ST_{184}	17.9	X	28.58208	107.80324	210.42026	5.29314	0.1611284	0.26632445	2.3925555	20	11 11.7	20.6
474900 2005 SW_{187}	18.1	X	313.41281	18.81045	49.52802	1.11429	0.1939749	0.26702050	2.3883959	20	12 6.2	19.9
474901 2005 SD_{188}	16.3	X	353.89116	266.06815	22.91529	10.34040	0.1085683	0.18561884	3.0436031	20	7 16.3	20.1
474902 2005 SM_{188}	16.2	X	315.09574	243.36605	20.30294	12.53440	0.0647515	0.17268588	3.1937297	20	4 13.7	20.4
474903 2005 SH_{196}	18.3	X	29.05959	143.67399	160.03096	1.28652	0.1907384	0.26567862	2.3964312	20	10 27.9	21.1
474904 2005 SH_{197}	18.2	X	20.11666	222.84153	152.08727	1.84986	0.1958356	0.27347229	2.3506817	20	—	—
474905 2005 SP_{197}	17.8	X	8.28763	10.37468	21.39671	3.80456	0.1512339	0.27391582	2.3481435	20	—	—
474906 2005 SC_{199}	17.8	X	352.12001	0.79423	355.29786	2.41067	0.2098497	0.26567902	2.3964289	20	11 10.9	19.8
474907 2005 SZ_{209}	15.9	X	289.56590	5.42796	346.26761	13.75757	0.1610707	0.18639433	3.0351553	20	6 17.3	20.2
474908 2005 SU_{210}	16.1	X	227.54323	19.76970	5.96900	18.67724	0.2060830	0.17827939	3.1265734	20	5 10.9	21.6
474909 2005 SY_{210}	17.5	X	34.35882	336.05940	29.37821	6.70830	0.1543581	0.27444842	2.3451046	20	—	—
474910 2005 SV_{211}	18.2	X	328.43402	204.81788	201.02038	1.72362	0.1716849	0.26639007	2.3921626	20	12 3.9	20.1
474911 2005 SC_{213}	18.1	X	307.11422	50.95085	11.38597	2.82162	0.1997080	0.26388350	2.4072871	20	11 8.4	19.7
474912 2005 SQ_{213}	16.8	X	264.40516	48.68528	309.89998	0.28246	0.1744675	0.18031681	3.1029771	20	5 23.6	21.3
474913 2005 SR_{214}	15.5	X	262.90621	137.26909	226.60362	15.34511	0.1736146	0.18051588	3.1006954	20	5 28.9	20.2
474914 2005 SU_{215}	17.7	X	3.12156	165.48226	219.31581	8.12714	0.2236213	0.26960282	2.3731203	20	—	—
474915 2005 SX_{215}	17.8	X	20.51264	11.40737	346.55895	10.46558	0.2470044	0.27123597	2.3635848	20	—	—
474916 2005 SU_{218}	16.0	X	224.07748	9.31116	40.24087	18.53086	0.2154847	0.17691836	3.1425880	20	6 8.5	21.4
474917 2005 SB_{224}	18.0	X	327.85358	190.48209	195.08931	2.11059	0.2292614	0.26446394	2.4037635	20	11 2.9	19.4
474918 2005 SB_{226}	16.7	X	255.66662	173.46354	206.66773	3.09515	0.2321093	0.18280055	3.0748060	20	6 3.6	21.4
474919 2005 SG_{232}	16.0	X	205.95425	47.30656	31.45221	10.93901	0.1646990	0.17820165	3.1274826	20	7 4.9	21.2
474920 2005 SX_{232}	16.7	X	141.57196	249.02377	213.03689	13.30678	0.1764670	0.16973302	3.2306642	20	6 5.7	22.1
474921 2005 SD_{234}	16.7	X	325.53236	112.49937	187.39977	14.37455	0.2075762	0.18610328	3.0383190	20	5 31.0	20.3
474922 2005 SC_{235}	17.9	X	1.91944	297.85290	96.59050	2.37961	0.1740562	0.27171082	2.3608303	20	—	—
474923 2005 SS_{236}	16.3	X	188.34277	225.96656	235.64125	4.48652	0.1317543	0.17976099	3.1093701	20	7 16.1	21.3
474924 2005 SA_{238}	16.1	X	241.51132	355.13812	24.04911	16.47553	0.0669547	0.17744231	3.1363987	20	6 1.9	20.9
474925 2005 SK_{238}	16.3	X	140.77133	73.74412	26.99409	20.87579	0.1391734	0.17056035	3.2202085	20	5 26.3	21.6
474926 2005 SA_{240}	16.0	X	272.41444	100.16824	229.28436	11.96312	0.0174102	0.17637253	3.1490683	20	5 18.7	20.4
474927 2005 SB_{240}	17.8	X	285.05995	201.37119	282.91950	5.06933	0.1629437	0.27160506	2.3614430	20	—	—
474928 2005 SG_{241}	16.9	X	245.62261	134.04843	219.79282	9.21799	0.2387913	0.17737996	3.1371336	20	4 22.4	21.9
474929 2005 SL_{247}	16.9	X	232.60834	6.63764	17.26730	0.54877	0.1720075	0.17780180	3.1321696	20	5 22.4	21.7
474930 2005 ST_{256}	17.9	X	39.87213	38.82377	302.29207	1.12261	0.1398292	0.27309192	2.3528640	20	12 24.8	21.0
474931 2005 SM_{257}	16.4	X	286.66515	158.78701	182.87902	2.04531	0.2261260	0.18467455	3.0539694	20	5 21.8	20.5
474932 2005 SN_{261}	17.6	X	10.54494	332.16250	13.21598	3.81293	0.2117450	0.26939791	2.3743235	20	11 30.3	20.1
474933 2005 SS_{263}	18.1	X	321.95822	247.28785	134.19107	1.80334	0.1829294	0.26163449	2.4210628	20	10 10.2	19.8
474934 2005 SB_{264}	18.1	X	13.50862	271.76131	68.52602	3.43519	0.1970345	0.26635146	2.3923938	20	11 25.3	20.7
474935 2005 SW_{271}	17.8	X	294.08725	96.90467	355.52507	6.13979	0.0623078	0.27079718	2.3661374	20	12 7.4	20.4
474936 2005 SE_{273}	16.5	X	131.36908	286.29467	240.75150	8.07353	0.0317657	0.18604043	3.0390032	20	8 2.1	21.0
474937 2005 SZ_{279}	17.4	X	327.13267	7.75490	52.32624	7.37950	0.0989226	0.26849275	2.3796569	20	12 16.8	19.9
474938 2005 SO_{280}	16.5	X	262.46372	110.98149	217.00810	8.24961	0.0900796	0.17482125	3.1676698	20	4 24.2	21.0
474939 2005 SX_{282}	16.4	X	250.43927	189.82713	160.23828	11.35248	0.2258767	0.17791237	3.1308719	20	4 26.8	21.5
474940 2005 SR_{284}	16.7	X	283.22985	181.15212	133.80448	10.31374	0.0766914	0.17536249	3.1611487	20	5 9.0	21.3
474941 2005 SD_{285}	16.3	X	228.79694	224.10869	143.89584	12.26274	0.1104138	0.17371990	3.1810440	20	5 8.6	21.4
474942 2005 SG_{285}	16.7	X	256.15137	220.08067	136.95731	11.06531	0.2302993	0.17852151	3.1237457	20	5 10.6	21.8
474943 2005 SE_{287}	16.4	X	333.06252	140.90806	125.45568	10.43411	0.2727065	0.18031179	3.1030347	20	4 22.8	19.8
474944 2005 SJ_{288}	18.2	X	62.81493	172.31216	132.73728	7.57004	0.2246986	0.27125611	2.3634678	20	12 13.8	21.9
474945 2005 SN_{291}	16.3	X	201.81939	188.91986	191.13574	8.98284	0.1398996	0.17147070	3.2088009	20	4 22.6	21.4
474946 2005 SE_{292}	16.6	X	145.78525	221.92577	227.43742	5.01115	0.0729827	0.17292651	3.1907663	20	5 18.6	21.4
474947 2005 SW_{292}	18.3	X	326.28612	15.08476	11.80737	1.29878	0.1895030	0.26479965	2.4017315	20	10 29.5	19.8
474948 2005 TR_{5}	16.2	X	226.75463	49.53689	342.40677	9.65513	0.2550954	0.17798038	3.1300742	20	5 18.4	21.7
474949 2005 TH_{12}	16.6	X	234.90746	323.13345	74.98546	2.49588	0.1483682	0.17953080	3.1120274	20	6 13.3	21.3
474950 2005 TJ_{13}	17.0	X	174.76117	98.77516	346.18159	1.34678	0.1936271	0.17396441	3.1780625	20	6 13.8	22.3
474951 2005 TD_{18}	16.0	X	278.12338	273.05310	66.82293	4.40177	0.2212665	0.18211057	3.0825676	20	5 10.1	20.6
474952 2005 TX_{21}	16.5	X	238.23074	2.72461	30.86093	7.58344	0.1646045	0.18093081	3.0959530	20	6 8.6	21.4
474953 2005 TD_{23}	17.9	X	344.76284	349.53011	42.84141	1.53737	0.2158102	0.26815836	2.3816347	20	12 23.9	20.0
474954 2005 TU_{24}	16.6	X	245.41112	350.25510	32.64431	17.95444	0.1984828	0.17893405	3.1189426	20	5 27.2	21.7
474955 2005 TD_{26}	16.6	X	242.58556	5.95833	37.98159	6.90110	0.1573088	0.18040323	3.1019860	20	6 27.8	21.4
474956 2005 TH_{26}	16.9	X	239.86275	291.90162	59.38715	1.51515	0.1912546	0.17393990	3.1783612	20	4 19.0	22.1
474957 2005 TY_{33}	16.6	X	187.41236	232.23162	175.88408	9.10218	0.0861270	0.17510604	3.1642343	20	5 14.1	21.5
474958 2005 TU_{34}	17.0	X	275.17241	226.71846	107.95548	2.50858	0.1851249	0.18144498	3.0901015	20	5 5.4	21.4
474959 2005 TP_{39}	16.6	X	282.94561	161.53486	192.60878	11.75215	0.0819722	0.18200664	3.0837410	20	6 22.9	21.0
474960 2005 TU_{41}	16.2	X	176.43468	220.42011	207.99104	28.38764	0.2681381	0.17258690	3.1949507	20	5 26.6	22.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
474961 2005 TJ_{46}	16.6	X	206.78907	209.11104	190.33489	17.37070	0.2078827	0.17535521	3.1612361	20	5 18.4	22.1
474962 2005 TW_{47}	16.0	X	241.90650	334.90747	20.86873	14.12438	0.1307409	0.17639845	3.1487599	20	4 28.6	20.9
474963 2005 TZ_{50}	16.1	X	212.26348	170.04451	226.86983	10.06329	0.2201545	0.17705297	3.1409950	20	5 17.7	21.4
474964 2005 TC_{58}	16.1	X	106.32133	102.69632	31.60258	16.41879	0.1798593	0.16996400	3.2277366	20	6 8.4	21.3
474965 2005 TW_{58}	17.8	X	64.86645	270.79009	33.45908	6.56539	0.1205139	0.26840478	2.3801768	20	12 1.7	21.1
474966 2005 TD_{59}	16.3	X	268.55087	317.40141	35.80474	12.22314	0.0946194	0.17898724	3.1183248	20	5 30.5	20.9
474967 2005 TT_{59}	16.8	X	210.60324	17.10831	19.60561	9.10245	0.0870996	0.17545314	3.1600597	20	5 20.2	21.8
474968 2005 TL_{61}	17.4	X	298.23726	86.67002	0.06328	4.56976	0.2083215	0.26717051	2.3875018	20	11 26.7	19.3
474969 2005 TH_{63}	18.0	X	17.77353	314.29768	40.99159	4.77371	0.1215512	0.26808095	2.3820932	20	12 9.9	20.7
474970 2005 TK_{63}	17.6	X	56.96282	297.30733	28.32660	15.29002	0.1063800	0.27074573	2.3664371	20	12 18.4	21.1
474971 2005 TP_{64}	17.0	X	185.66903	167.32036	16.43303	24.86857	0.1613000	0.26684648	2.3894341	20	10 25.7	20.9
474972 2005 TV_{64}	16.8	X	214.12533	49.95739	344.56349	11.01716	0.1014049	0.18035159	3.1025782	20	5 19.0	21.8
474973 2005 TL_{72}	16.5	X	232.19785	273.92293	106.84763	3.79864	0.2481462	0.17742626	3.1365878	20	5 13.8	21.7
474974 2005 TF_{77}	18.3	X	351.64943	281.16617	100.93878	2.47403	0.1845355	0.26817582	2.3815313	20	12 16.8	20.6
474975 2005 TC_{80}	16.3	X	153.64745	67.94387	350.92845	13.25271	0.0583820	0.17073672	3.2179905	20	4 13.9	21.2
474976 2005 TZ_{85}	18.1	X	42.46386	222.94068	103.85787	3.64716	0.2361380	0.27207578	2.3587186	20	12 21.6	21.4
474977 2005 TF_{86}	16.7	X	246.54051	160.58679	213.12126	9.45003	0.0848658	0.17824198	3.1270108	20	6 2.9	21.3
474978 2005 TC_{87}	18.3	X	328.62229	182.57172	208.04372	0.25287	0.2083204	0.26519606	2.3993375	20	11 12.1	19.9
474979 2005 TL_{96}	16.1	X	289.16493	302.87638	20.57705	14.07367	0.1642512	0.17948451	3.1125624	20	5 7.1	20.5
474980 2005 TQ_{97}	16.2	X	256.47155	303.50119	20.76882	10.70178	0.0903424	0.17174179	3.2054233	20	4 12.8	20.8
474981 2005 TL_{101}	15.9	X	244.42427	354.44855	31.93939	17.22679	0.0639687	0.18038955	3.1021429	20	6 16.5	20.7
474982 2005 TS_{102}	16.3	X	206.05933	179.01739	212.24312	9.65002	0.1338819	0.17347867	3.1839922	20	5 9.6	21.4
474983 2005 TV_{103}	17.5	X	23.91136	149.41313	226.23820	9.51723	0.2252101	0.27289252	2.3540099	20	—	—
474984 2005 TV_{112}	16.3	X	219.12367	178.24012	203.29737	14.86327	0.0721945	0.17633608	3.1495023	20	5 14.9	21.1
474985 2005 TA_{113}	18.3	X	306.34479	109.83713	292.92801	1.41239	0.1756986	0.26262973	2.4149425	20	10 6.9	20.4
474986 2005 TE_{121}	16.3	X	270.38106	290.22401	34.73657	4.87739	0.1172233	0.17672526	3.1448767	20	4 26.1	20.8
474987 2005 TW_{122}	16.8	X	200.87686	253.53979	193.62224	7.84978	0.2487946	0.17867104	3.1220027	20	7 5.3	22.3
474988 2005 TE_{123}	16.4	X	165.85749	84.47026	17.90540	10.91055	0.1934765	0.17634921	3.1493460	20	6 27.8	21.9
474989 2005 TE_{127}	16.9	X	267.91154	316.82919	2.51411	0.68008	0.1593424	0.17589789	3.1547308	20	4 11.1	21.4
474990 2005 TN_{128}	16.8	X	243.92288	305.47211	27.96653	5.14571	0.1413294	0.17264517	3.1942318	20	4 6.1	21.7
474991 2005 TU_{128}	16.4	X	243.53398	151.58938	207.47203	8.82050	0.1391888	0.17614496	3.1517800	20	5 6.8	21.2
474992 2005 TR_{129}	17.8	X	357.33956	175.44297	214.63696	0.91227	0.1742645	0.26940630	2.3742742	20	—	—
474993 2005 TP_{130}	17.0	X	223.64589	313.53342	128.83329	1.51558	0.1496565	0.18306215	3.0718760	20	7 26.8	21.8
474994 2005 TZ_{130}	16.6	X	229.55735	179.49014	182.82969	4.90088	0.1861168	0.17403023	3.1772612	20	4 23.8	21.7
474995 2005 TA_{132}	16.6	X	200.98306	69.40763	29.55473	18.34812	0.2229775	0.18047668	3.1011444	20	7 27.1	22.2
474996 2005 TE_{134}	16.3	X	272.87499	317.07617	31.43564	11.35407	0.1056814	0.17985463	3.1082908	20	5 28.3	20.8
474997 2005 TF_{136}	16.9	X	267.17050	228.62454	108.17525	1.76702	0.1950890	0.17997879	3.1068610	20	4 27.9	21.6
474998 2005 TZ_{145}	17.9	X	316.12431	309.16496	99.59247	3.42112	0.1742497	0.26461456	2.4028513	20	11 11.2	19.7
474999 2005 TU_{154}	16.4	X	196.10034	197.34437	205.51141	26.77301	0.1380545	0.17514501	3.1637649	20	5 14.1	21.7
475000 2005 TC_{155}	16.1	X	340.76747	54.84625	210.35930	17.39492	0.2036322	0.18216021	3.0820076	20	5 12.2	19.4
475001 2005 TX_{155}	16.6	X	164.29371	89.18619	357.97554	9.36354	0.2174205	0.17380548	3.1799996	20	6 7.1	22.2
475002 2005 TN_{157}	16.7	X	276.06231	150.13006	212.96548	11.60474	0.1423854	0.18327205	3.0695300	20	6 16.6	21.1
475003 2005 TO_{160}	16.3	X	240.80161	89.57256	259.13316	3.30355	0.1699311	0.17490706	3.1666337	20	4 17.0	21.4
475004 2005 TK_{161}	16.6	X	180.69217	60.25166	7.05405	6.77289	0.1614356	0.17353764	3.1832708	20	5 27.2	21.9
475005 2005 TX_{161}	17.1	X	198.37065	185.11276	215.76165	10.32515	0.1494912	0.17362614	3.1821891	20	5 13.5	22.2
475006 2005 TE_{162}	16.9	X	239.10907	42.86394	357.19515	4.01528	0.1771867	0.18044335	3.1015263	20	6 17.1	21.8
475007 2005 TF_{163}	16.5	X	265.52223	155.00268	211.04835	16.67866	0.1382573	0.18136441	3.0910166	20	6 8.1	21.2
475008 2005 TG_{165}	16.7	X	234.11427	345.62502	24.38401	9.54822	0.0975077	0.17508901	3.1644394	20	5 11.7	21.5
475009 2005 TV_{167}	16.7	X	261.28219	162.49629	217.22017	4.28383	0.1380132	0.18142215	3.0903607	20	6 20.5	21.1
475010 2005 TX_{168}	18.1	X	299.59773	206.06753	266.70575	1.41543	0.1732465	0.27077182	2.3662851	20	—	—
475011 2005 TG_{176}	18.2	X	21.10874	316.68462	55.08042	2.44487	0.1876228	0.27313189	2.3526344	20	—	—
475012 2005 TR_{176}	17.0	X	267.68821	86.45948	188.85098	22.97194	0.4257688	0.17585784	3.1552096	20	1 24.1	23.1
475013 2005 TF_{181}	16.6	X	216.43127	56.32353	27.86364	10.74657	0.1343092	0.18331360	3.0690662	20	7 26.4	21.5
475014 2005 TM_{191}	18.0	X	333.54020	6.68179	44.41491	3.01968	0.1744329	0.26576343	2.3959214	20	12 22.5	20.0
475015 2005 TN_{191}	16.8	X	225.26894	334.99920	64.16119	1.82342	0.1924980	0.17525778	3.1624076	20	6 1.7	21.8
475016 2005 UO	22.1	X	150.26360	258.54811	19.18693	7.70786	0.5824230	0.62779670	1.3507968	20	—	—
475017 2005 UC_{8}	16.2	X	206.14794	55.82181	32.45105	13.97346	0.2370399	0.17848082	3.1242205	20	7 14.4	21.7
475018 2005 UU_{8}	15.5	X	229.38582	341.02803	18.96418	27.27572	0.3147699	0.17697373	3.1419324	20	4 11.4	21.0
475019 2005 UB_{9}	17.6	X	9.16986	358.04471	31.92757	11.83605	0.2487608	0.27226848	2.3576055	20	—	—
475020 2005 UN_{10}	17.8	X	340.18147	239.91117	144.55387	5.99454	0.1958028	0.26528689	2.3987898	20	11 29.7	19.8
475021 2005 UA_{15}	16.1	X	259.56130	300.18386	42.64840	15.21749	0.0571183	0.17438494	3.1729513	20	5 12.4	20.6
475022 2005 UD_{17}	17.8	X	1.49787	107.39146	284.78822	2.76442	0.1997905	0.26943608	2.3740993	20	—	—
475023 2005 UY_{17}	18.4	X	337.65888	178.74359	227.88601	1.64000	0.2112916	0.26808477	2.3820706	20	12 30.2	20.2
475024 2005 UX_{20}	16.7	X	232.38509	82.55069	314.80402	2.01098	0.1928597	0.17835123	3.1257338	20	6 5.8	21.7
475025 2005 UB_{23}	16.4	X	166.98083	211.50179	221.95307	22.36132	0.1268816	0.17146272	3.2089005	20	5 23.3	21.6
475026 2005 UX_{24}	17.0	X	249.87540	2.95869	29.49362	5.59719	0.1439454	0.18043787	3.1015890	20	6 22.7	21.6
475027 2005 US_{25}	18.0	X	354.80288	184.81590	217.49748	4.81378	0.2278325	0.26982164	2.3718371	20	—	—
475028 2005 UF_{27}	17.8	X	358.91830	305.28366	41.12245	1.82927	0.2062675	0.26338497	2.4103238	20	11 9.3	19.8
475029 2005 UN_{27}	16.3	X	227.87200	21.38254	31.06180	14.34544	0.1178703	0.17949090	3.1124885	20	6 26.5	21.3
475030 2005 UY_{27}	17.6	X	44.99270	306.03819	36.57133	7.05662	0.1549278	0.27066227	2.3669236	20	—	—
475031 2005 UM_{28}	16.7	X	170.27727	95.79327	11.11731	0.33206	0.1077941	0.17643332	3.1483450	20	7 6.1	21.6
475032 2005 UP_{33}	17.0	X	210.67801	342.14106	43.03190	19.77522	0.1309112	0.17400424	3.1775776	20	5 5.6	22.0
475033 2005 UN_{37}	17.6	X	250.78156	61.56021	62.03238	7.28748	0.1166080	0.26118102	2.4238643	20	11 6.1	20.6
475034 2005 UW_{38}	18.4	X	356.75829	213.89545	193.66073	2.07104	0.1710017	0.26952918	2.3735526	20	—	—
475035 2005 UH_{39}	16.4	X	288.66190	289.20465	55.98818	17.44608	0.1908211	0.17983555	3.1085105	20	6 1.1	20.6
475036 2005 UH_{47}	17.7	X	322.27115	322.97036	56.75713	3.25231	0.2094054	0.26167538	2.4208106	20	10 8.0	19.2
475037 2005 UY_{47}	17.6	X	25.04996	286.93335	79.46896	3.76681	0.2481701	0.27109248	2.3644188	20	—	—
475038 2005 UV_{57}	18.2	X	350.75796	127.60743	280.07680	1.51846	0.1924678	0.26928328	2.3749973	20	—	—
475039 2005 UL_{58}	16.6	X	181.19564	219.84590	228.82632	7.13793	0.1406085	0.17462378	3.1700574	20	6 23.7	21.7
475040 2005 UP_{59}	18.0	X	84.36468	152.91255	131.43445	2.16695	0.1794957	0.26879882	2.3778501	20	12 3.7	21.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
475041 2005 UH_{62}	18.0	X	284.12013	276.88684	178.00255	0.93726	0.1534391	0.26277875	2.4140294	20	11 14.4	20.3
475042 2005 UO_{62}	18.0	X	271.68601	268.00845	210.98923	2.26707	0.1563068	0.26401011	2.4065174	20	11 26.9	20.5
475043 2005 UK_{67}	17.8	X	3.04869	208.93400	163.17518	1.41271	0.1992914	0.26804398	2.3823122	20	12 24.1	20.3
475044 2005 UD_{70}	16.8	X	214.29655	106.37680	320.22130	9.51054	0.2980360	0.17761566	3.1343577	20	6 19.9	22.5
475045 2005 UG_{70}	17.0	X	22.19440	79.56137	306.19496	10.57404	0.0511782	0.27407133	2.3472552	20	—	—
475046 2005 UF_{72}	16.4	X	211.76858	170.59262	261.35941	9.41485	0.2381661	0.17764885	3.1339672	20	6 26.7	21.8
475047 2005 UK_{85}	17.0	X	192.68751	272.10407	157.81392	1.79242	0.1530423	0.17513422	3.1638949	20	6 11.8	22.0
475048 2005 UT_{86}	16.5	X	230.01489	218.49982	151.10233	1.90778	0.1793220	0.17479046	3.1680417	20	5 3.1	21.5
475049 2005 UC_{92}	16.7	X	226.95520	56.77873	353.65955	4.83679	0.1320174	0.17786085	3.1314764	20	6 22.0	21.5
475050 2005 UR_{96}	16.7	X	206.34923	289.64391	112.44592	2.98971	0.0738091	0.17312897	3.1882783	20	5 25.7	21.5
475051 2005 UU_{97}	18.0	X	303.27991	220.00893	159.32248	2.86880	0.1649240	0.25617081	2.4553663	20	8 24.5	20.3
475052 2005 UD_{98}	16.2	X	285.53954	261.57108	64.28125	9.79478	0.0627234	0.17483897	3.1674558	20	5 24.2	20.5
475053 2005 UV_{101}	16.5	X	277.32993	131.03620	198.19160	8.72946	0.1708458	0.17662853	3.1460248	20	5 3.5	21.0
475054 2005 UA_{102}	18.2	X	297.41407	356.94850	98.64769	3.46949	0.1697336	0.26609697	2.3939189	20	12 12.5	20.1
475055 2005 UV_{103}	16.9	X	218.02309	215.83025	203.94683	3.71473	0.1132990	0.17661696	3.1461622	20	6 25.7	21.8
475056 2005 UH_{104}	16.5	X	243.42730	308.77124	66.64558	6.36135	0.1835782	0.17597694	3.1537859	20	5 21.8	21.3
475057 2005 UR_{106}	16.8	X	255.46391	269.18270	117.51203	3.27861	0.1622486	0.17955676	3.1117274	20	6 19.5	21.5
475058 2005 UD_{114}	18.0	X	297.25250	73.16778	28.70914	2.67169	0.1789265	0.26545838	2.3977566	20	12 21.1	19.8
475059 2005 UW_{115}	15.9	X	257.80901	146.42496	229.27723	18.30376	0.1568722	0.18157064	3.0886757	20	6 8.4	20.6
475060 2005 UM_{118}	15.6	X	351.83403	229.59065	36.39278	15.09195	0.0469895	0.17673121	3.1448061	20	6 6.9	20.0
475061 2005 UN_{118}	17.8	X	286.42562	73.69426	22.21777	2.65047	0.1965875	0.26424869	2.4050687	20	11 14.6	19.9
475062 2005 UE_{122}	16.7	X	200.05024	15.17604	34.33292	6.97732	0.0853635	0.17367337	3.1816121	20	5 25.9	21.6
475063 2005 UV_{123}	16.9	X	197.40455	6.74969	47.62936	1.66301	0.1627786	0.17350311	3.1836932	20	5 27.7	22.1
475064 2005 UK_{126}	18.3	X	317.88933	34.46587	39.99119	3.16087	0.1759960	0.26653911	2.3912708	20	12 25.5	20.3
475065 2005 UW_{126}	17.8	X	284.81239	34.95069	44.08688	4.62283	0.0310357	0.26214687	2.4179070	20	11 5.7	20.7
475066 2005 UH_{128}	18.2	X	282.29903	58.38468	42.90600	2.90391	0.1477899	0.26411308	2.4058919	20	11 21.0	20.4
475067 2005 UC_{129}	16.6	X	149.14091	181.38947	318.84130	0.76480	0.0592959	0.17882024	3.1202659	20	7 24.1	21.2
475068 2005 UB_{133}	16.5	X	180.76156	211.37522	207.35328	20.87645	0.1427438	0.17320682	3.1873228	20	5 19.3	21.8
475069 2005 UP_{133}	16.3	X	284.74843	355.36992	0.32520	10.74518	0.1337203	0.18713377	3.0271546	20	6 20.1	20.6
475070 2005 UC_{136}	18.3	X	10.35275	211.76457	169.84447	1.37040	0.1925133	0.27152519	2.3619061	20	—	—
475071 2005 UZ_{136}	18.3	X	314.32679	25.56175	38.87513	2.00389	0.1705424	0.26601167	2.3944306	20	11 30.9	20.1
475072 2005 US_{139}	16.9	X	248.45766	217.03610	168.53042	0.96552	0.1558070	0.17957768	3.1114857	20	6 11.3	21.5
475073 2005 UY_{139}	16.2	X	303.20477	286.14012	41.69229	16.33400	0.0859093	0.18032594	3.1028724	20	6 14.3	20.5
475074 2005 UC_{143}	16.7	X	226.64851	344.09441	34.48040	2.19808	0.0776873	0.17143724	3.2092184	20	5 17.7	21.5
475075 2005 UO_{147}	17.7	X	333.84699	335.18999	20.67490	5.62443	0.1302710	0.25834104	2.4415959	20	9 24.9	19.9
475076 2005 UA_{152}	16.6	X	230.95607	328.99830	36.24985	0.88257	0.1572375	0.17231555	3.1983039	20	4 29.7	21.7
475077 2005 UO_{155}	16.6	X	227.98385	250.41557	175.66094	12.63029	0.2967756	0.18020758	3.1042309	20	6 28.6	22.2
475078 2005 UZ_{156}	16.3	X	235.04927	335.52365	46.66209	7.73657	0.1698149	0.17678324	3.1441891	20	5 22.3	21.2
475079 2005 UL_{157}	17.7	X	106.41219	329.75673	40.60709	22.24878	0.0924276	0.35439220	1.9776371	20	—	—
475080 2005 UR_{157}	18.1	X	343.30387	5.92666	46.34851	2.15213	0.2202904	0.26734508	2.3864623	20	—	—
475081 2005 UP_{163}	17.7	X	45.23323	284.25214	352.89933	2.33955	0.1731437	0.25978346	2.4325497	20	10 9.0	20.6
475082 2005 UC_{170}	16.1	X	165.03687	175.12144	274.08140	2.28564	0.1797740	0.17104548	3.2141167	20	6 10.6	21.3
475083 2005 UY_{172}	16.2	X	182.55391	87.76585	43.03182	25.65706	0.2387632	0.18060758	3.0996458	20	8 27.3	22.0
475084 2005 UU_{175}	18.3	X	327.01311	94.52517	305.44873	1.75611	0.1758467	0.26289490	2.4133183	20	11 19.7	20.1
475085 2005 UM_{183}	16.1	X	213.64182	9.12106	43.70418	29.02992	0.1794009	0.17584072	3.1554145	20	6 1.9	21.5
475086 2005 UP_{183}	16.7	X	100.84693	218.53987	332.39126	0.11713	0.0573936	0.18028392	3.1033545	20	7 31.9	21.0
475087 2005 UF_{187}	17.9	X	296.75025	54.74927	60.20977	7.57360	0.0670022	0.26932187	2.3747705	20	—	—
475088 2005 UM_{187}	16.5	X	183.34518	195.88004	219.73524	3.56953	0.1722856	0.17411584	3.1762197	20	5 17.2	21.8
475089 2005 UE_{188}	16.1	X	152.04633	66.20346	32.05406	10.99737	0.0945698	0.17318289	3.1876165	20	6 4.6	21.1
475090 2005 UL_{188}	18.3	X	49.70200	10.57159	327.90195	0.98924	0.1906836	0.27193891	2.3595099	20	—	—
475091 2005 UF_{194}	18.1	X	11.90725	149.82482	202.96876	6.08399	0.1380459	0.26613125	2.3937133	20	12 1.2	20.8
475092 2005 UV_{194}	16.4	X	264.94559	304.28642	71.73040	4.48754	0.2191231	0.18054206	3.1003956	20	6 9.3	21.1
475093 2005 UG_{197}	16.9	X	222.02565	246.31242	141.01262	2.20701	0.1850958	0.17321868	3.1871773	20	5 16.7	22.1
475094 2005 UC_{200}	17.9	X	34.18514	255.52003	60.94655	3.20119	0.2078164	0.26449419	2.4035802	20	11 23.2	20.9
475095 2005 UZ_{202}	17.9	X	350.56930	186.15046	202.75709	3.89753	0.0350029	0.26584314	2.3954425	20	12 4.3	20.8
475096 2005 UD_{203}	16.0	X	103.48553	113.74523	50.19738	27.01074	0.1824199	0.17288497	3.1912774	20	7 17.7	21.4
475097 2005 UY_{217}	18.9	X	51.62741	70.46880	32.90418	21.92109	0.0727327	0.35850446	1.9624850	20	1 2.7	21.1
475098 2005 UB_{219}	17.9	X	302.71510	32.89915	10.95353	6.57980	0.1237879	0.26033743	2.4290976	20	10 6.2	20.3
475099 2005 UV_{219}	16.3	X	156.34160	232.54755	244.64074	7.17722	0.1030336	0.17608973	3.1524390	20	7 3.8	21.2
475100 2005 UH_{222}	18.1	X	320.48384	119.31044	317.19059	1.96737	0.1958344	0.26793278	2.3829713	20	—	—
475101 2005 UR_{222}	16.2	X	171.79583	209.03694	223.60771	26.56402	0.1553403	0.17169391	3.2060193	20	5 26.7	21.6
475102 2005 UQ_{231}	17.8	X	54.76348	287.24373	50.23534	2.15007	0.2063564	0.27194828	2.3594558	20	—	—
475103 2005 UV_{231}	17.8	X	298.32175	221.29087	207.85597	1.30104	0.1868816	0.26210524	2.4181630	20	10 30.9	19.6
475104 2005 UO_{233}	16.2	X	187.75627	342.23235	60.63935	16.95774	0.0487476	0.16950331	3.2335823	20	5 8.7	21.0
475105 2005 UP_{234}	18.0	X	263.24447	34.15056	78.55708	5.82221	0.0566129	0.26351194	2.4095495	20	11 18.7	20.7
475106 2005 UA_{237}	18.0	X	295.12388	315.86733	131.67812	3.69615	0.1605219	0.26380332	2.4077749	20	11 25.7	20.2
475107 2005 UB_{237}	16.6	X	199.51181	192.57797	204.26022	10.56212	0.1150738	0.17032318	3.2231973	20	5 11.1	21.7
475108 2005 UN_{245}	16.8	X	227.94858	228.40486	129.57874	1.34085	0.0778422	0.16954316	3.2330756	20	4 24.7	21.6
475109 2005 UC_{252}	16.0	X	245.09157	69.39467	307.35815	12.77498	0.1901617	0.17940586	3.1134720	20	5 21.9	21.1
475110 2005 US_{252}	16.8	X	238.13023	36.69136	22.73501	6.02066	0.1962433	0.18036264	3.1024515	20	7 9.2	21.8
475111 2005 UC_{259}	15.5	X	297.78708	99.29378	215.87002	19.49987	0.1359511	0.17756372	3.1349688	20	5 16.6	19.7
475112 2005 UO_{260}	17.6	X	184.20434	142.41719	69.70500	4.56749	0.0045470	0.26856635	2.3792221	20	12 22.8	20.5
475113 2005 UM_{262}	18.1	X	0.74836	259.33704	136.40249	1.83934	0.1856705	0.27047652	2.3680071	20	—	—
475114 2005 UF_{265}	18.7	X	294.87477	320.44989	150.12750	1.51080	0.1472266	0.26734310	2.3864741	20	12 31.4	20.7
475115 2005 UQ_{269}	16.6	X	130.16572	264.23894	203.97121	8.20327	0.0528381	0.17287333	3.1914207	20	5 23.2	21.3
475116 2005 UT_{270}	16.7	X	293.43942	124.50928	205.56065	16.20977	0.1476380	0.18154665	3.0889477	20	5 28.3	21.0
475117 2005 UN_{274}	15.9	X	243.66245	14.62904	4.57793	13.10628	0.2604765	0.17765906	3.1338471	20	5 15.4	21.3
475118 2005 UO_{275}	15.7	X	280.54170	313.94840	19.20575	15.06080	0.2720084	0.17960047	3.1112224	20	4 24.6	20.4
475119 2005 UY_{279}	16.7	X	243.40517	338.56492	54.40370	3.17508	0.1728460	0.17904709	3.1176297	20	6 13.1	21.4
475120 2005 UW_{280}	16.7	X	200.53431	190.35087	234.84788	10.17050	0.2257555	0.17367161	3.1816335	20	6 10.5	22.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
475121 2005 UT_{284}	16.6	X	354.83537	261.66050	65.88746	9.37206	0.1197861	0.19076092	2.9886595	20	9 13.3	20.3
475122 2005 UD_{287}	16.5	X	236.45713	326.60879	70.72830	6.44053	0.1176938	0.17911345	3.1168596	20	6 16.9	21.2
475123 2005 UH_{289}	16.3	X	242.57048	118.53182	250.65839	8.26163	0.0961960	0.17456937	3.1707161	20	5 21.8	20.9
475124 2005 UN_{289}	16.5	X	264.38102	92.76156	255.23560	7.58474	0.1001358	0.17525666	3.1624210	20	5 19.8	21.1
475125 2005 UG_{294}	16.3	X	291.09578	318.56477	9.09287	4.50647	0.1354786	0.17738880	3.1370293	20	5 21.9	20.5
475126 2005 UJ_{299}	17.0	X	192.26193	253.00904	180.27518	0.51073	0.1643375	0.17364888	3.1819113	20	6 15.1	22.2
475127 2005 UO_{301}	17.2	X	67.39771	202.86350	168.02350	5.80268	0.1754404	0.27782113	2.3260866	20	—	—
475128 2005 UU_{306}	16.6	X	257.54783	113.69892	228.03041	8.57654	0.1087553	0.17421639	3.1749974	20	5 3.1	21.2
475129 2005 UN_{307}	18.1	X	15.88122	324.31552	22.15133	1.77907	0.1921972	0.26529872	2.3987184	20	12 6.0	20.9
475130 2005 UR_{312}	15.7	X	247.72125	115.74200	239.63184	11.01802	0.1167181	0.17389226	3.1789415	20	5 7.8	20.5
475131 2005 UO_{317}	18.0	X	270.91788	215.28261	255.19813	1.75172	0.1461535	0.26751315	2.3854627	20	11 15.1	20.5
475132 2005 UT_{321}	15.9	X	334.07664	46.70853	246.21450	20.48097	0.1331978	0.17687532	3.1430977	20	6 12.1	19.7
475133 2005 UB_{325}	18.1	X	64.19720	109.66980	179.41989	4.04644	0.1123459	0.26694330	2.3888563	20	11 11.9	21.3
475134 2005 UH_{332}	17.4	X	52.31662	245.57123	64.55885	14.96123	0.3061176	0.26853949	2.3793807	20	12 16.1	21.2
475135 2005 UJ_{335}	17.8	X	345.22020	344.17206	71.86281	3.69782	0.1711826	0.27002056	2.3706722	20	—	—
475136 2005 UY_{337}	17.2	X	275.99209	134.40160	215.21533	11.40057	0.1351462	0.17950631	3.1123104	20	6 1.0	21.6
475137 2005 UB_{342}	15.6	X	227.35217	130.06539	245.87115	15.07694	0.0894407	0.17351861	3.1835036	20	5 13.9	20.4
475138 2005 UG_{342}	18.2	X	307.31123	148.57103	269.73366	5.63179	0.1191445	0.26290567	2.4132524	20	11 5.3	20.7
475139 2005 UC_{345}	16.3	X	295.66096	235.24760	61.64936	7.05119	0.2405929	0.17640335	3.1487016	20	4 7.3	20.7
475140 2005 UU_{347}	16.1	X	300.40332	75.97303	205.29898	6.90711	0.1231449	0.17087135	3.2162999	20	4 8.3	20.5
475141 2005 UQ_{348}	16.8	X	228.20207	137.54631	247.95905	9.18545	0.2392816	0.17691899	3.1425805	20	5 15.3	22.1
475142 2005 UD_{349}	15.7	X	225.43743	84.66649	309.06834	14.60986	0.2795696	0.17718360	3.1394509	20	5 17.7	21.4
475143 2005 US_{350}	16.3	X	203.59631	70.91917	352.72314	9.33862	0.2223009	0.17642499	3.1484441	20	6 10.3	21.8
475144 2005 UK_{354}	17.7	X	342.39740	27.60564	355.87295	4.08478	0.2475142	0.26467316	2.4024966	20	12 8.4	19.5
475145 2005 UP_{354}	15.4	X	226.52406	147.25907	243.17236	27.66877	0.2577759	0.17533715	3.1614531	20	5 19.1	20.9
475146 2005 UZ_{358}	16.9	X	228.09570	208.52508	217.74928	9.14816	0.0637790	0.18222929	3.0812286	20	7 17.9	21.6
475147 2005 UX_{362}	18.1	X	297.72593	36.04871	27.10383	5.83635	0.1326585	0.26342390	2.4100863	20	10 25.7	20.4
475148 2005 UR_{364}	17.8	X	43.18482	161.65876	189.50257	3.74471	0.2085443	0.27178281	2.3604133	20	—	—
475149 2005 UY_{366}	18.1	X	15.05896	268.77352	107.22695	3.23890	0.2027384	0.26990065	2.3713743	20	—	—
475150 2005 UC_{370}	16.3	X	259.27715	294.05079	59.15635	17.95435	0.1517882	0.17568637	3.1572623	20	5 15.0	21.0
475151 2005 UF_{374}	16.2	X	240.30847	169.69858	237.06401	16.87062	0.1927253	0.17859965	3.1228346	20	6 23.4	21.2
475152 2005 UY_{375}	15.7	X	174.84927	140.03038	267.53945	7.18255	0.0505449	0.16825718	3.2495282	20	4 25.9	20.6
475153 2005 UO_{379}	17.8	X	275.39227	359.00112	77.49601	2.51049	0.1610434	0.25990918	2.4317652	20	10 1.6	20.3
475154 2005 UL_{380}	16.3	X	267.52777	299.13400	65.28116	11.67262	0.1008015	0.17761622	3.1343510	20	6 13.1	20.7
475155 2005 UA_{381}	16.3	X	265.45917	301.56209	66.57679	10.75039	0.0935123	0.17821693	3.1273038	20	6 16.5	20.8
475156 2005 UJ_{386}	16.0	X	182.49991	73.05613	34.65947	12.56729	0.1362114	0.17935690	3.1140386	20	7 21.9	21.2
475157 2005 UO_{395}	18.2	X	289.19643	299.25693	183.58300	1.31071	0.1297744	0.27153936	2.3618239	20	—	—
475158 2005 US_{395}	15.8	X	229.31514	131.20165	243.66398	14.96639	0.1008922	0.17384624	3.1795026	20	5 13.8	20.6
475159 2005 UP_{396}	16.2	X	238.35600	332.24857	52.00051	18.32179	0.2147126	0.17770729	3.1332800	20	5 23.2	21.2
475160 2005 UQ_{405}	18.1	X	318.03830	268.59991	128.62447	2.00226	0.1916892	0.25985683	2.4320918	20	10 25.9	19.9
475161 2005 UH_{408}	16.5	X	11.07089	221.96996	45.91347	11.23806	0.0178884	0.18104192	3.0946862	20	7 9.7	20.9
475162 2005 UF_{410}	16.1	X	219.30229	341.01814	68.24111	10.62682	0.0833847	0.17550108	3.1594841	20	6 15.9	20.9
475163 2005 UZ_{411}	16.5	X	181.73775	73.32989	68.97369	13.22988	0.2674178	0.18094142	3.0958320	20	9 1.0	22.2
475164 2005 UQ_{417}	16.4	X	233.23639	345.28661	58.50156	10.73243	0.0816136	0.17864749	3.1222771	20	6 25.1	21.1
475165 2005 UK_{424}	16.6	X	246.44535	182.13400	219.39879	8.84032	0.1321384	0.18118824	3.0930199	20	6 30.8	21.3
475166 2005 UT_{432}	16.9	X	225.13056	235.05853	151.56025	1.66941	0.1828352	0.17386068	3.1793266	20	5 18.6	22.1
475167 2005 UO_{433}	18.5	X	299.66226	293.59527	173.39564	0.74827	0.1323734	0.26706340	2.3881401	20	—	—
475168 2005 UL_{434}	16.5	X	269.33824	247.75931	90.95811	2.74654	0.1433450	0.17679956	3.1439956	20	5 9.3	21.1
475169 2005 UW_{440}	17.8	X	273.13168	104.54655	340.31072	4.88572	0.2065703	0.26012471	2.4304218	20	9 29.2	20.3
475170 2005 UW_{444}	16.2	X	249.59800	166.66364	200.40075	27.94976	0.1739453	0.18069408	3.0986564	20	5 19.1	21.3
475171 2005 UC_{445}	17.8	X	343.58458	242.91284	137.95215	4.92714	0.1831843	0.26596742	2.3946962	20	11 29.6	19.9
475172 2005 UC_{450}	16.2	X	247.60280	313.76526	70.20996	7.28732	0.1451682	0.17950628	3.1123108	20	6 9.3	21.0
475173 2005 UL_{457}	15.7	X	252.51496	104.12449	267.94850	14.46775	0.2689101	0.17885469	3.1198651	20	5 16.6	20.9
475174 2005 UX_{459}	17.7	X	304.10519	62.76917	46.53694	4.46952	0.1648245	0.26726223	2.3869555	20	—	—
475175 2005 UJ_{460}	16.6	X	243.70597	334.25345	47.40555	7.79945	0.2493006	0.17650633	3.1474767	20	5 22.7	21.7
475176 2005 UQ_{471}	18.0	X	313.88187	67.53187	3.91998	2.52273	0.0626191	0.26604068	2.3942565	20	12 8.7	20.5
475177 2005 US_{471}	16.3	X	220.29141	19.16361	21.73741	4.95563	0.1637409	0.17526638	3.1623042	20	5 31.4	21.3
475178 2005 UC_{472}	17.5	X	36.50655	353.06616	291.78507	3.03505	0.0777939	0.25558882	2.4590922	20	9 19.9	20.4
475179 2005 UC_{473}	18.0	X	17.53304	50.94898	10.51356	2.64387	0.1847925	0.27469561	2.3436976	20	—	—
475180 2005 UQ_{475}	16.3	X	343.39980	232.95880	59.72265	12.19776	0.0239575	0.17838818	3.1253021	20	7 3.3	20.7
475181 2005 UE_{484}	15.7	X	231.82964	315.66023	51.64662	11.39768	0.1017615	0.17508761	3.1644563	20	5 7.9	20.5
475182 2005 UE_{486}	18.3	X	144.07841	119.53744	221.16848	19.66049	0.1279573	0.35765004	1.9656093	20	—	—
475183 2005 UP_{486}	16.4	X	221.66488	121.60401	257.79041	11.97140	0.3171970	0.17636602	3.1491459	20	4 27.4	22.2
475184 2005 UO_{500}	16.3	X	263.03235	204.43911	179.63132	15.29590	0.2488647	0.18126667	3.0921276	20	6 14.3	21.3
475185 2005 UF_{503}	15.9	X	188.48740	256.13666	237.50716	19.54899	0.3300687	0.18166252	3.0876340	20	8 10.9	21.9
475186 2005 UJ_{510}	18.1	X	301.00862	8.45565	48.06135	5.72054	0.1785037	0.26090936	2.4255465	20	10 18.8	20.0
475187 2005 UM_{510}	16.4	X	179.32971	46.71408	70.47539	10.75611	0.1959672	0.17759609	3.1345878	20	7 28.5	21.8
475188 2005 UO_{510}	16.9	X	196.63991	6.41625	71.13014	2.30407	0.1553935	0.17469511	3.1691945	20	6 24.4	22.0
475189 2005 UB_{512}	16.2	X	125.42772	76.77887	74.92931	9.80049	0.1534484	0.17137495	3.2099960	20	7 20.3	21.3
475190 2005 UL_{514}	16.6	X	279.74063	86.68110	190.14443	30.75328	0.1878485	0.17302631	3.1895392	20	2 26.8	21.7
475191 2005 UP_{516}	16.9	X	267.65168	164.53043	182.44847	7.90098	0.1366277	0.18091473	3.0961364	20	5 19.3	21.5
475192 2005 UK_{517}	16.5	X	256.97859	154.00864	190.19420	21.50289	0.0997588	0.17686785	3.1431862	20	5 8.9	21.3
475193 2005 UG_{518}	16.5	X	170.84505	307.26297	140.96322	10.13419	0.0438253	0.17540073	3.1606891	20	6 13.8	21.3
475194 2005 UR_{518}	16.2	X	285.74255	120.16714	186.67858	21.33360	0.0880497	0.17377866	3.1803269	20	4 28.9	20.8
475195 2005 UC_{521}	17.9	X	220.95723	284.16922	143.55943	1.78737	0.1501708	0.18284802	3.0742738	20	7 5.8	22.7
475196 2005 US_{522}	16.8	X	208.51805	325.26365	121.28317	2.82526	0.0644711	0.18529123	3.0471895	20	7 23.3	21.2
475197 2005 UX_{530}	18.0	X	35.92856	216.96664	130.04708	4.60705	0.2595225	0.27148704	2.3621274	20	—	—
475198 2005 VC_{1}	17.3	X	19.62402	90.88553	246.72470	19.60665	0.3695661	0.26790158	2.3831563	20	12 25.1	20.6
475199 2005 VQ_{2}	15.9	X	254.19779	328.31691	23.34324	28.12847	0.1834076	0.17444855	3.1721799	20	4 27.2	21.0
475200 2005 VR_{3}	18.4	X	89.34834	57.70038	22.81174	17.44195	0.1618315	0.36041636	1.9555386	20	3 1.6	20.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
475201 2005 VR_5	16.8	X	264.52543	322.69124	53.08345	3.75029	0.2246829	0.18040672	3.1019461	20	6 7.7	21.5
475202 2005 VU_{10}	18.2	X	14.58978	190.91073	183.94845	3.30998	0.2424001	0.26939700	2.3743289	20	—	—
475203 2005 VA_{11}	18.1	X	30.38183	255.74447	157.06682	2.77357	0.1806719	0.27667825	2.3324878	20	—	—
475204 2005 VU_{15}	15.8	X	170.47093	248.11076	231.73843	14.85074	0.1850504	0.17894932	3.1187652	20	7 18.4	21.3
475205 2005 VQ_{16}	16.9	X	0.89243	149.52461	262.14184	9.59273	0.1179559	0.27399870	2.3476700	20	—	—
475206 2005 VD_{18}	16.6	X	334.30579	225.27028	40.43075	10.63020	0.0314613	0.17327614	3.1864727	20	5 15.2	20.9
475207 2005 VS_{20}	16.4	X	271.32018	148.91841	216.77966	15.76583	0.1416006	0.18030130	3.1031551	20	6 13.7	21.0
475208 2005 VK_{25}	15.7	X	136.03834	277.66783	216.26535	25.10691	0.2127711	0.17245660	3.1965598	20	7 5.9	21.5
475209 2005 VV_{25}	18.0	X	339.06604	69.26754	12.96066	6.18501	0.2510937	0.27164437	2.3612153	20	—	—
475210 2005 VM_{34}	16.3	X	197.68907	230.66173	166.23185	7.20031	0.1755319	0.17199644	3.2022587	20	5 8.9	21.7
475211 2005 VV_{34}	17.8	X	9.85190	71.26198	301.96764	1.79914	0.2084505	0.26943057	2.3741317	20	—	—
475212 2005 VA_{37}	16.5	X	284.99857	336.01596	17.10352	3.16513	0.1907149	0.18207578	3.0829603	20	6 7.9	20.8
475213 2005 VS_{37}	17.6	X	25.37879	228.28634	118.56138	5.77238	0.2071811	0.26814220	2.3817304	20	12 22.9	20.6
475214 2005 VW_{37}	16.3	X	188.18055	347.32240	76.90447	10.91058	0.1208005	0.17142370	3.2093874	20	6 1.5	21.3
475215 2005 VX_{46}	17.5	X	10.50123	336.58031	26.86578	7.70648	0.1163102	0.26739988	2.3861363	20	12 8.8	20.3
475216 2005 VJ_{62}	16.9	X	164.64510	103.76560	349.17879	8.90556	0.0651185	0.17937396	3.1138411	20	6 11.4	21.7
475217 2005 VC_{71}	18.6	X	341.59141	252.38488	132.62770	1.99343	0.1893820	0.26324645	2.4111693	20	11 30.8	20.5
475218 2005 VP_{72}	16.3	X	250.26432	314.30507	72.18895	11.55444	0.2152811	0.17813285	3.1282878	20	6 7.4	21.2
475219 2005 VD_{79}	16.7	X	202.38238	16.83515	27.34820	9.41161	0.0707388	0.17407610	3.1767030	20	5 21.7	21.5
475220 2005 VG_{87}	18.4	X	45.42850	182.62026	146.69216	0.79843	0.2152425	0.26876549	2.3780467	20	12 24.6	21.8
475221 2005 VN_{89}	16.3	X	149.16909	286.70251	193.86580	7.78130	0.1765725	0.17157576	3.2074909	20	7 3.7	21.7
475222 2005 VC_{90}	15.9	X	290.83323	310.50838	48.23889	12.57600	0.0475220	0.17836758	3.1255426	20	7 17.0	20.4
475223 2005 VU_{96}	16.9	X	259.45909	102.41267	242.01508	8.49179	0.2436819	0.17638429	3.1489284	20	4 21.9	21.9
475224 2005 VC_{98}	16.3	X	222.28137	353.58591	42.65002	11.58458	0.1432148	0.17502032	3.1652673	20	5 28.3	21.4
475225 2005 VL_{101}	15.8	X	345.27112	228.08842	19.46741	14.94287	0.1074524	0.17311676	3.1884282	20	4 30.2	19.9
475226 2005 VX_{109}	18.2	X	290.54646	55.43016	57.30117	3.34075	0.1506721	0.26759470	2.3849780	20	12 25.9	20.4
475227 2005 VU_{110}	18.1	X	334.30432	24.01911	54.38930	2.17495	0.1705352	0.27036940	2.3686326	20	—	—
475228 2005 VJ_{112}	16.0	X	198.69077	206.61473	247.13333	8.59881	0.0621935	0.17918558	3.1160232	20	7 19.0	20.8
475229 2005 VL_{114}	18.3	X	270.23442	212.75220	241.29382	3.16069	0.1693248	0.25875767	2.4389743	20	10 14.2	21.0
475230 2005 VD_{125}	15.7	X	232.87385	112.23387	273.15637	24.04230	0.2152185	0.17536821	3.1610799	20	5 20.6	21.2
475231 2005 VJ_{129}	17.6	X	301.87052	250.22644	164.87963	4.35262	0.1754988	0.26340613	2.4101947	20	10 19.6	19.5
475232 2005 VK_{130}	16.5	X	278.07998	140.16114	173.70973	11.14434	0.0219703	0.17461501	3.1701636	20	5 7.8	21.1
475233 2005 VW_{132}	16.4	X	209.65542	269.25596	163.05950	11.05800	0.1523562	0.17842810	3.1248359	20	6 30.1	21.5
475234 2005 WH	15.7	X	256.23265	126.65287	252.05682	16.17081	0.1740666	0.18053922	3.1004282	20	6 8.7	20.4
475235 2005 WF_2	15.9	X	192.52097	28.27456	80.21259	18.41899	0.1695438	0.17781299	3.1320383	20	7 30.3	21.2
475236 2005 WV_3	15.3	X	244.48193	64.69364	287.27841	25.23979	0.2766760	0.17603821	3.1530541	20	4 4.7	21.2
475237 2005 WL_{10}	16.3	X	117.44483	302.06586	237.32278	9.86128	0.1296795	0.17885723	3.1198356	20	8 8.8	21.4
475238 2005 WO_{12}	15.8	X	259.21056	96.76239	235.15866	20.51169	0.0812505	0.17014993	3.2253848	20	4 25.3	20.6
475239 2005 WD_{16}	18.2	X	309.59288	202.29346	231.75223	0.79144	0.1550352	0.26325060	2.4111440	20	12 4.7	20.3
475240 2005 WK_{17}	18.3	X	14.49985	289.71420	67.96543	5.90669	0.2496965	0.26615711	2.3935583	20	12 29.0	21.1
475241 2005 WU_{20}	17.6	X	181.49471	228.65999	320.34174	2.50485	0.0612058	0.26016503	2.4301706	20	11 9.7	20.9
475242 2005 WB_{21}	17.3	X	252.22253	118.00569	251.78557	14.39737	0.3788717	0.17842194	3.1249078	20	5 3.9	22.8
475243 2005 WP_{24}	17.4	X	224.51671	239.60988	267.38061	5.21530	0.0868642	0.25960596	2.4336584	20	11 3.5	20.6
475244 2005 WU_{28}	17.9	X	10.44127	322.12215	50.28198	5.90488	0.1258736	0.26563053	2.3967205	20	12 23.0	20.7
475245 2005 WL_{30}	16.5	X	164.00749	67.59125	58.58713	10.63546	0.1811400	0.17396604	3.1780427	20	7 26.6	21.9
475246 2005 WL_{31}	18.4	X	321.24777	12.87678	37.94165	2.98758	0.2147328	0.26201568	2.4187141	20	11 25.2	20.1
475247 2005 WX_{32}	18.1	X	354.54522	108.83884	259.21656	2.36733	0.2451533	0.26320293	2.4114351	20	12 9.8	20.1
475248 2005 WH_{33}	16.0	X	152.63001	41.32132	71.05738	26.55738	0.1470032	0.16925927	3.2366897	20	6 24.0	21.3
475249 2005 WM_{37}	18.0	X	354.08329	298.98205	83.09491	5.65188	0.1572549	0.26381201	2.4077220	20	12 15.2	20.5
475250 2005 WP_{40}	17.1	X	5.58304	296.46702	76.74565	7.17802	0.1411755	0.26369550	2.4084311	20	12 18.7	19.6
475251 2005 WZ_{45}	17.2	X	20.93569	217.04156	81.28305	3.33551	0.2120127	0.25538420	2.4604056	20	10 10.2	19.7
475252 2005 WQ_{46}	16.2	X	240.72946	144.78457	237.40828	19.72248	0.0832477	0.17567259	3.1574275	20	6 6.2	20.9
475253 2005 WN_{48}	16.3	X	237.78786	303.39801	72.04651	13.28167	0.2058075	0.17278793	3.1924721	20	5 16.2	21.5
475254 2005 WP_{62}	16.0	X	230.99015	314.62055	92.55358	10.52642	0.2100497	0.17670249	3.1451469	20	6 15.5	21.1
475255 2005 WM_{64}	17.3	X	187.52083	291.34945	235.31063	4.85908	0.1445052	0.25506890	2.4624327	20	10 10.4	21.0
475256 2005 WV_{66}	17.8	X	217.16381	291.95561	226.64403	2.84333	0.0930940	0.26056426	2.4276877	20	11 10.4	20.9
475257 2005 WC_{67}	16.1	X	184.20425	217.54604	247.20590	10.57281	0.0697698	0.17554428	3.1589658	20	7 15.9	21.0
475258 2005 WM_{68}	16.6	X	253.43491	268.52952	87.01200	1.75762	0.1807183	0.17431158	3.1738414	20	5 8.0	21.5
475259 2005 WM_{76}	16.6	X	228.13901	339.38743	63.81091	16.59766	0.2619469	0.17549131	3.1596015	20	6 3.3	21.9
475260 2005 WS_{78}	16.2	X	165.90427	184.06329	265.41708	12.51686	0.0423568	0.16876457	3.2430118	20	6 8.5	21.0
475261 2005 WQ_{85}	15.9	X	277.39465	112.83977	245.72345	25.34673	0.2106054	0.17968737	3.1102194	20	6 2.4	20.3
475262 2005 WR_{90}	15.6	X	187.99742	220.43596	246.68514	16.70612	0.2029866	0.17673911	3.1447124	20	7 16.9	21.2
475263 2005 WE_{91}	17.7	X	1.43549	98.90190	300.50172	4.70732	0.2058555	0.26898477	2.3767541	20	—	—
475264 2005 WY_{92}	16.6	X	212.81651	157.38822	265.65513	0.93553	0.1215970	0.17386786	3.1792390	20	6 23.9	21.5
475265 2005 WG_{101}	16.1	X	185.64237	351.14865	107.03789	17.62360	0.4168571	0.16982504	3.2294971	20	7 5.4	22.3
475266 2005 WC_{103}	17.5	X	120.25093	168.44927	233.25515	19.73118	0.1007762	0.35956759	1.9586147	20	1 22.1	20.0
475267 2005 WO_{103}	15.4	X	277.78981	258.13080	70.18407	26.51426	0.2640061	0.17663139	3.1459909	20	4 30.1	20.4
475268 2005 WN_{121}	17.8	X	303.81636	192.75327	232.96850	4.52005	0.2209595	0.26126811	2.4233256	20	11 3.3	19.5
475269 2005 WF_{124}	17.8	X	355.41500	349.20479	54.66170	2.19262	0.1694898	0.26971531	2.3724604	20	—	—
475270 2005 WX_{124}	17.0	X	197.40996	17.99700	63.43850	2.24232	0.1531075	0.17329224	3.1862754	20	6 29.9	22.2
475271 2005 WB_{125}	16.6	X	229.21459	148.03389	216.86868	1.02760	0.1423456	0.17253089	3.1956421	20	4 28.8	21.7
475272 2005 WK_{125}	15.6	X	358.79220	27.16195	231.38010	27.46488	0.1530677	0.17652600	3.1472428	20	6 7.9	19.4
475273 2005 WR_{126}	17.8	X	79.42869	219.71114	63.25676	4.30871	0.1558081	0.26395170	2.4068724	20	11 24.1	21.4
475274 2005 WF_{127}	16.4	X	153.61826	252.43358	236.36799	9.29090	0.1611830	0.17416418	3.1756319	20	7 15.9	21.7
475275 2005 WJ_{127}	16.2	X	308.76134	66.27437	238.15164	12.16806	0.0312347	0.17283940	3.1918383	20	5 31.9	20.5
475276 2005 WR_{139}	17.1	X	221.93174	151.96257	266.91582	4.19827	0.1217418	0.17475993	3.1684107	20	6 27.9	22.0
475277 2005 WP_{142}	17.1	X	247.19632	182.18298	190.08870	1.02922	0.2204198	0.17668184	3.1453919	20	5 18.0	22.1
475278 2005 WS_{144}	17.9	X	277.18379	66.53185	334.03984	2.44311	0.1413325	0.25189639	2.4830650	20	8 13.8	20.7
475279 2005 WF_{148}	16.0	X	191.22552	261.16126	154.75152	6.73328	0.1505454	0.17094055	3.2154319	20	5 25.9	21.3
475280 2005 WJ_{149}	17.8	X	338.45687	41.26043	332.92077	2.76583	0.1537463	0.25933974	2.4353236	20	10 31.6	19.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
475281 2005 WK_{150}	15.9	X	193.25611	175.15873	253.79844	16.35053	0.1953320	0.17231419	3.1983207	20	6 9.8	21.4
475282 2005 WO_{151}	15.5	X	196.01741	164.73438	256.26730	26.13332	0.1597456	0.17201365	3.2020450	20	6 3.8	20.7
475283 2005 WW_{152}	17.7	X	250.08330	99.07957	40.92962	2.25569	0.1102503	0.26224768	2.4172874	20	11 27.4	20.3
475284 2005 WM_{153}	16.1	X	217.11420	348.54944	61.69535	10.21229	0.1705590	0.17332805	3.1858365	20	6 8.6	21.3
475285 2005 WU_{163}	17.6	X	284.64970	15.85473	66.24591	7.13937	0.1113438	0.25883673	2.4384776	20	11 2.2	20.2
475286 2005 WV_{164}	15.5	X	137.85418	240.42506	260.58478	24.92106	0.2058469	0.16980132	3.2297978	20	7 14.6	21.1
475287 2005 WH_{172}	18.4	X	9.40832	252.58991	95.22164	2.78482	0.1441612	0.26198636	2.4188945	20	11 20.0	20.9
475288 2005 WO_{205}	18.3	X	289.44196	26.72516	85.84983	4.67859	0.1265008	0.26595924	2.3947453	20	12 24.2	20.6
475289 2005 XB_{2}	17.9	X	342.75145	126.28737	249.48696	5.77627	0.1890351	0.26181739	2.4199351	20	11 17.6	19.7
475290 2005 XV_{3}	15.9	X	162.86042	52.06993	75.14016	11.04368	0.1636262	0.17451987	3.1713156	20	7 26.0	21.2
475291 2005 XE_{19}	17.5	X	270.33440	64.83023	3.00184	2.44897	0.1708034	0.25454440	2.4658142	20	9 7.1	20.4
475292 2005 XH_{29}	16.0	X	229.18657	129.81915	278.96935	15.66230	0.2296904	0.17666592	3.1455809	20	6 14.5	21.2
475293 2005 XQ_{30}	16.4	X	199.56896	5.94367	98.59349	11.90213	0.1744426	0.17698131	3.1418427	20	7 30.3	21.6
475294 2005 XJ_{32}	18.6	X	326.57407	165.60655	261.51383	1.52950	0.1863606	0.26481773	2.4016222	20	—	—
475295 2005 XS_{32}	15.6	X	316.81638	213.05089	84.62242	15.69110	0.1413988	0.17162924	3.2068245	20	5 23.4	19.7
475296 2005 XT_{33}	16.2	X	231.88933	330.12175	83.27641	14.54132	0.2454933	0.17574051	3.1566139	20	6 20.5	21.3
475297 2005 XS_{48}	17.2	X	6.40804	136.89772	272.52595	10.25939	0.3744434	0.27113382	2.3641784	20	—	—
475298 2005 XM_{50}	17.7	X	284.83795	40.34181	12.27949	3.49566	0.2130690	0.25361460	2.4718373	20	9 2.3	20.2
475299 2005 XQ_{54}	18.3	X	342.68811	51.57505	337.34573	1.46773	0.2175901	0.26356477	2.4092275	20	12 12.7	20.2
475300 2005 XN_{62}	18.3	X	326.11276	60.45429	8.63622	1.48438	0.1679883	0.26505406	2.4001944	20	—	—
475301 2005 XF_{68}	16.8	X	220.80996	8.21576	25.96352	3.63600	0.2026085	0.17258879	3.1949274	20	5 21.6	22.0
475302 2005 XZ_{69}	17.7	X	291.72648	51.68176	22.48750	2.99174	0.1443982	0.25915308	2.4364928	20	10 28.3	19.8
475303 2005 XB_{72}	17.1	X	33.76759	324.39118	285.24426	13.63046	0.0704468	0.24023545	2.5627799	20	7 23.9	20.2
475304 2005 XB_{78}	16.2	X	236.34280	297.58897	89.17864	13.29967	0.1694602	0.17245113	3.1966274	20	5 31.3	21.2
475305 2005 XZ_{79}	17.8	X	67.25106	344.89813	121.62392	22.30355	0.2838908	0.35366887	1.9803327	20	3 26.3	19.6
475306 2005 YR_{1}	16.3	X	222.80916	91.88307	320.30280	24.60119	0.2829244	0.17259506	3.1948500	20	6 10.1	22.2
475307 2005 YP_{13}	17.4	X	238.51441	136.52517	292.52473	13.27326	0.0623460	0.24271642	2.5452861	20	8 7.5	21.0
475308 2005 YR_{15}	18.1	X	255.06942	173.85682	290.90157	1.35835	0.1668195	0.25252667	2.4789316	20	10 5.4	21.2
475309 2005 YB_{23}	18.1	X	287.91958	354.76128	98.75297	2.38185	0.1436733	0.25811670	2.4430104	20	11 19.5	20.3
475310 2005 YU_{29}	17.7	X	324.70463	52.00066	336.66780	4.10693	0.1970873	0.25588014	2.4572254	20	10 23.5	19.6
475311 2005 YA_{31}	18.2	X	253.86597	13.53594	105.06962	3.40235	0.1165602	0.25465234	2.4651174	20	11 2.5	21.1
475312 2005 YU_{45}	18.2	X	279.41759	272.82346	171.27342	1.10219	0.1527909	0.25514277	2.4619574	20	10 18.8	20.5
475313 2005 YC_{57}	18.2	X	318.03869	0.91422	88.77902	3.41679	0.1454797	0.26446218	2.4037742	20	—	—
475314 2005 YD_{82}	17.8	X	332.74805	264.43847	124.16213	2.71977	0.2173715	0.25752737	2.4467360	20	11 17.7	19.5
475315 2005 YW_{100}	18.2	X	299.69267	185.41835	253.67314	1.65736	0.1547467	0.25860212	2.4399523	20	11 19.6	20.2
475316 2005 YL_{107}	16.5	X	223.78681	143.55821	280.56506	13.82633	0.2528244	0.17367349	3.1816106	20	6 26.6	21.9
475317 2005 YX_{113}	17.5	X	300.96235	16.22627	41.72479	3.43931	0.1809806	0.25538716	2.4603865	20	10 18.1	19.4
475318 2005 YZ_{126}	17.8	X	345.39139	63.93295	52.68684	3.44132	0.2008005	0.27162696	2.3613161	20	—	—
475319 2005 YS_{148}	16.0	X	170.05123	158.63527	306.26096	14.13616	0.1596870	0.16761490	3.2578241	20	7 4.9	21.4
475320 2005 YE_{162}	17.8	X	283.75073	10.99810	126.10828	8.67220	0.2845430	0.26246362	2.4159613	20	—	—
475321 2005 YU_{167}	17.8	X	316.55916	238.24580	164.98582	2.78415	0.1653129	0.25541336	2.4602183	20	10 31.1	19.8
475322 2005 YE_{187}	17.2	X	190.15796	191.25630	294.65587	9.05954	0.0307701	0.24414107	2.5353747	20	8 25.9	20.8
475323 2005 YK_{199}	17.2	X	116.15924	239.93232	308.53461	10.94556	0.1216221	0.23937930	2.5688869	20	8 24.5	21.1
475324 2005 YO_{199}	17.0	X	213.75158	190.32284	296.89739	13.32805	0.0197330	0.24735269	2.5133808	20	9 24.7	20.7
475325 2005 YJ_{207}	17.4	X	289.14210	36.63515	23.90606	1.07915	0.2173020	0.25269592	2.4778246	20	9 20.7	19.6
475326 2005 YL_{224}	17.6	X	303.43540	132.90545	264.55118	0.78470	0.1848508	0.25300059	2.4758350	20	9 18.8	19.6
475327 2005 YN_{228}	18.4	X	286.41288	186.17145	266.01367	0.54558	0.1553087	0.25715317	2.4491091	20	11 12.3	20.7
475328 2005 YC_{235}	18.1	X	3.07391	307.51195	61.52885	2.44626	0.2316392	0.26060972	2.4274054	20	12 22.9	20.6
475329 2005 YV_{271}	17.0	X	142.33922	32.50930	135.38229	11.85323	0.1862027	0.23645327	2.5900362	20	8 31.4	21.2
475330 2005 YX_{276}	17.6	X	4.39191	303.31602	64.56524	3.53166	0.2236454	0.25729339	2.4482192	20	12 20.9	20.1
475331 2006 AY_{18}	17.1	X	348.22987	89.62007	290.06313	10.26282	0.0315550	0.25336101	2.4734864	20	11 11.7	20.3
475332 2006 AK_{27}	17.9	X	303.84078	321.89508	120.66489	2.06007	0.1560385	0.25712968	2.4492583	20	12 3.4	20.0
475333 2006 AR_{28}	17.8	X	315.61271	33.66409	11.10202	3.44890	0.1978236	0.25663540	2.4524021	20	10 28.8	19.4
475334 2006 AW_{34}	17.9	X	206.97989	178.71334	291.65545	11.44237	0.1274967	0.24478475	2.5309281	20	8 16.8	21.9
475335 2006 AQ_{42}	15.8	X	209.58927	234.80810	132.28538	20.55659	0.0248460	0.15498229	3.4325326	20	4 26.8	21.1
475336 2006 AN_{82}	17.2	X	290.65375	164.43761	298.95804	10.59817	0.1799699	0.25835988	2.4414771	20	12 4.9	19.6
475337 2006 AT_{104}	17.7	X	229.58104	146.81861	314.10412	5.54460	0.0877120	0.24475772	2.5311144	20	9 6.4	21.3
475338 2006 AV_{104}	17.0	X	34.99513	293.04462	324.81392	10.86175	0.0967850	0.23192691	2.6236262	20	8 12.2	20.0
475339 2006 BF_{1}	17.8	X	277.88213	150.05113	309.56249	5.56053	0.1058911	0.25479258	2.4642127	20	11 11.4	20.6
475340 2006 BR_{28}	18.4	X	315.77749	137.63841	293.68414	1.42871	0.1811068	0.25833706	2.4416209	20	12 12.2	20.3
475341 2006 BF_{48}	17.3	X	47.72901	334.14983	320.79484	7.62495	0.0525255	0.24730889	2.5136775	20	10 12.0	20.6
475342 2006 BP_{66}	18.2	X	278.15730	76.89022	38.29208	1.70639	0.1319803	0.25721328	2.4487275	20	12 3.4	20.7
475343 2006 BX_{69}	17.4	X	295.57312	70.77507	13.54187	4.75511	0.1318243	0.25531732	2.4608352	20	11 18.8	19.8
475344 2006 BO_{98}	17.4	X	345.95055	194.80136	311.02184	19.62110	0.0326201	0.34219255	2.0243659	20	—	—
475345 2006 BJ_{107}	17.5	X	348.28016	249.49514	118.51193	8.32656	0.2040953	0.25375423	2.4709305	20	11 19.9	19.8
475346 2006 BM_{110}	17.7	X	337.95598	349.05241	60.87325	2.43647	0.1725048	0.25821472	2.4423921	20	12 26.2	20.0
475347 2006 BG_{111}	17.1	X	89.81052	251.12808	329.37918	11.08745	0.1230688	0.23663252	2.5887281	20	9 6.6	20.9
475348 2006 BK_{140}	17.8	X	317.57602	288.31404	95.29090	2.37091	0.1869005	0.25347252	2.4727609	20	9 30.9	19.7
475349 2006 BR_{146}	17.8	X	263.50884	54.42719	22.89673	2.76706	0.0696970	0.24726904	2.5139476	20	9 25.7	20.9
475350 2006 BB_{161}	17.3	X	258.87260	151.67772	306.02563	8.61312	0.0492342	0.24760130	2.5116981	20	10 14.7	20.7
475351 2006 BP_{164}	17.0	X	68.68315	231.93679	334.00789	13.61263	0.1068375	0.22769906	2.6560030	20	7 24.6	20.6
475352 2006 BF_{193}	17.9	X	73.62135	87.82465	160.74168	4.00646	0.0616323	0.23919775	2.5701866	20	9 18.7	21.1
475353 2006 BX_{234}	17.5	X	22.26054	345.21328	327.00766	4.69728	0.1126676	0.24512403	2.5285922	20	10 9.6	20.4
475354 2006 CE	18.6	X	332.63716	231.35674	331.90405	44.30288	0.3606823	0.41531731	1.7791642	20	—	—
475355 2006 CP_{2}	17.8	X	103.25338	230.30367	312.79053	4.04546	0.0730346	0.23436342	2.6054105	20	7 30.8	21.2
475356 2006 CQ_{5}	16.9	X	186.14440	197.76326	293.37649	14.30365	0.0537138	0.24172381	2.5522493	20	8 23.6	20.7
475357 2006 CB_{12}	18.1	X	310.46586	5.49427	138.25864	7.98200	0.0700895	0.26691203	2.3890429	20	—	—
475358 2006 CY_{15}	17.9	X	296.26843	110.82996	345.86172	6.54986	0.1018378	0.25631731	2.4544306	20	12 10.8	20.6
475359 2006 CC_{26}	17.1	X	107.19551	259.30539	320.71579	13.82182	0.0283903	0.24275691	2.5450031	20	9 13.7	20.7
475360 2006 CH_{48}	18.2	X	320.98427	277.40990	157.51329	3.43171	0.2431556	0.25997566	2.4313506	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
475361 2006 CX_{67}	17.2	X	26.21074	289.45715	358.99926	10.05520	0.0439017	0.23594447	2.5937584	20	9 5.5	20.5
475362 2006 CE_{68}	17.2	X	206.62077	330.44331	145.17504	11.08317	0.0768027	0.23910435	2.5708559	20	9 1.4	20.7
475363 2006 DE_{32}	16.3	X	4.35972	1.05780	346.87554	17.05026	0.1673075	0.24242363	2.5473351	20	10 31.5	19.4
475364 2006 DD_{37}	17.3	X	4.67527	76.99537	173.15391	15.06605	0.2878517	0.21674762	2.7447313	20	6 17.6	19.7
475365 2006 DC_{43}	17.5	X	107.17727	105.32913	140.57266	2.91437	0.0912158	0.24287378	2.5441866	20	10 29.8	21.1
475366 2006 DU_{45}	16.8	X	355.65946	340.77199	352.98147	15.08055	0.0734428	0.23753878	2.5821395	20	9 21.8	19.7
475367 2006 DA_{114}	17.0	X	5.50505	354.98369	0.88995	11.02446	0.1384516	0.24414303	2.5353611	20	11 14.5	20.1
475368 2006 DG_{116}	17.3	X	109.03223	213.14870	13.27363	11.18621	0.1171118	0.23564752	2.5959369	20	10 6.7	21.2
475369 2006 DC_{128}	17.3	X	112.76824	195.94441	333.34191	14.14145	0.0353582	0.23275227	2.6174201	20	7 22.9	21.0
475370 2006 DV_{132}	17.1	X	14.31823	248.00337	14.51215	7.72676	0.2179743	0.22410167	2.6843511	20	7 30.7	19.7
475371 2006 DQ_{134}	17.3	X	15.62321	184.47992	103.10290	3.74362	0.1315402	0.23201537	2.6229593	20	8 28.4	20.2
475372 2006 DN_{154}	17.1	X	243.06935	88.06711	351.61129	22.11371	0.0422173	0.23609249	2.5926741	20	9 5.9	20.6
475373 2006 DV_{165}	17.7	X	120.86568	68.77348	145.36262	5.68655	0.0577917	0.23832124	2.5764846	20	10 2.2	21.3
475374 2006 DP_{216}	17.5	X	167.19275	174.84386	357.90377	5.05433	0.0469803	0.24090560	2.5580250	20	9 30.6	21.0
475375 2006 EY_{1}	17.2	X	57.10513	258.54827	24.15351	4.88955	0.1742607	0.23576691	2.5950604	20	10 27.3	20.9
475376 2006 ET_{16}	17.4	X	30.32565	109.37050	120.54863	2.54434	0.1343158	0.22067285	2.7120859	20	6 28.6	20.5
475377 2006 EO_{34}	17.2	X	96.33083	243.97908	19.04697	9.66154	0.0800758	0.24081289	2.5586815	20	11 3.9	20.9
475378 2006 ES_{73}	17.2	X	164.11529	333.42075	185.54341	7.71384	0.1301321	0.23783612	2.5799870	20	9 6.2	21.3
475379 2006 FX_{13}	17.1	X	39.05692	81.33237	187.94826	13.22443	0.1399039	0.22723871	2.6595889	20	9 6.9	20.5
475380 2006 FF_{25}	17.4	X	34.71965	268.09391	16.83646	5.76986	0.1702632	0.22851130	2.6497054	20	9 29.8	20.4
475381 2006 FV_{54}	16.8	X	90.51398	50.41581	198.88588	14.99245	0.0798593	0.23270093	2.6178050	20	10 11.3	20.4
475382 2006 GZ_{3}	17.2	X	165.14938	337.36206	194.10287	6.92817	0.1507201	0.24005177	2.5640871	20	9 23.3	21.3
475383 2006 GP_{5}	16.9	X	70.48649	178.06527	88.54977	4.80620	0.1312981	0.23425925	2.6061829	20	10 19.1	20.5
475384 2006 GN_{19}	15.4	X	221.82941	192.93530	81.44252	4.05316	0.1426662	0.12262804	4.0124490	20	1 14.8	21.6
475385 2006 GH_{20}	17.2	X	42.54624	142.16674	59.38183	4.30738	0.1275057	0.21645600	2.7471959	20	6 7.6	20.4
475386 2006 GT_{21}	16.9	X	75.19801	222.00682	2.91432	11.16905	0.0749594	0.22931852	2.6434837	20	8 23.9	20.5
475387 2006 GA_{28}	17.1	X	137.33849	340.08697	198.60406	11.16841	0.0930014	0.23011438	2.6373851	20	8 31.9	21.2
475388 2006 GK_{38}	16.6	X	62.09953	111.19396	107.82375	13.78229	0.1991516	0.22301619	2.6930544	20	8 15.6	20.3
475389 2006 GR_{51}	17.0	X	145.71839	32.34239	139.76799	14.43182	0.1923416	0.23316250	2.6143491	20	9 9.1	21.4
475390 2006 HN_{7}	18.5	X	120.64664	104.60463	142.51878	0.98417	0.2684033	0.30794458	2.1718059	20	11 27.0	22.0
475391 2006 HW_{30}	17.9	X	328.61296	208.35417	65.70140	25.59582	0.1285150	0.42280957	1.7580836	20	5 7.1	18.9
475392 2006 HY_{32}	16.9	X	167.47259	345.07617	216.30848	25.82916	0.1877067	0.23995301	2.5647906	20	10 31.8	21.0
475393 2006 HW_{35}	17.1	X	72.90102	208.43454	50.18766	5.27816	0.1346182	0.23400193	2.6080931	20	10 11.4	20.7
475394 2006 HJ_{43}	16.8	X	312.31999	68.86265	227.10804	11.38243	0.2352462	0.21015395	2.8018465	20	4 24.3	20.1
475395 2006 HN_{49}	17.0	X	109.73603	353.94162	161.36913	2.82463	0.1166861	0.22359094	2.6884373	20	7 5.7	20.9
475396 2006 HE_{58}	16.7	X	81.48480	53.71290	196.21375	16.65396	0.1643717	0.23020452	2.6366965	20	10 11.4	20.5
475397 2006 HK_{74}	17.0	X	311.48049	217.74051	200.46987	9.74860	0.1710144	0.23871560	2.5736463	20	11 6.4	19.4
475398 2006 HU_{88}	17.2	X	2.81874	167.17105	103.64002	15.06469	0.1775536	0.21622462	2.7491554	20	7 9.2	19.9
475399 2006 HK_{106}	16.9	X	6.38534	264.56518	63.48019	13.44186	0.1790686	0.22855779	2.6493461	20	10 19.6	19.9
475400 2006 HH_{117}	17.0	X	125.41826	17.85746	206.24930	26.80051	0.0947510	0.23588970	2.5941598	20	10 19.7	20.7
475401 2006 HH_{152}	17.2	X	49.74446	138.88837	118.10990	8.61987	0.1381296	0.22399437	2.6852083	20	9 10.3	20.7
475402 2006 JN_{2}	17.2	X	2.01676	140.52180	102.93926	6.07933	0.0971444	0.21261253	2.7802049	20	5 26.7	20.4
475403 2006 JO_{4}	17.1	X	73.97566	9.06853	209.71414	12.18292	0.1346702	0.22394675	2.6855890	20	8 14.1	21.1
475404 2006 JV_{4}	17.4	X	108.49902	68.61329	148.05014	2.86805	0.0669530	0.22894593	2.6463509	20	9 19.1	21.0
475405 2006 JU_{6}	17.4	X	14.98757	200.82179	59.60559	6.11676	0.1255543	0.21851488	2.7299124	20	7 15.3	20.4
475406 2006 JP_{16}	17.2	X	40.15965	221.04500	72.10667	6.37517	0.0883659	0.22921059	2.6443134	20	10 8.7	20.6
475407 2006 JX_{21}	17.1	X	51.65467	28.30247	199.44382	13.16748	0.0849102	0.21939918	2.7225720	20	7 19.5	20.9
475408 2006 JG_{29}	16.9	X	334.78001	228.55057	54.20648	14.28758	0.1835587	0.21372276	2.7705683	20	5 24.7	19.7
475409 2006 JQ_{31}	16.9	X	44.09903	188.48038	72.97548	15.13764	0.0739185	0.22413793	2.6840616	20	9 3.2	20.7
475410 2006 JS_{56}	16.4	X	31.36654	238.99811	73.60731	15.66255	0.1515785	0.23112195	2.6297144	20	11 3.5	19.8
475411 2006 KA_{12}	16.8	X	40.51568	171.53196	135.46576	11.99382	0.1258042	0.23210235	2.6223040	20	11 4.5	20.4
475412 2006 KZ_{12}	16.5	X	180.15168	41.30909	116.51737	14.38231	0.0442112	0.23364486	2.6107497	20	10 3.0	20.4
475413 2006 KY_{13}	17.0	X	57.27683	40.25335	177.22462	11.11159	0.1352781	0.22003802	2.7172999	20	7 22.7	20.6
475414 2006 KZ_{15}	17.0	X	51.02614	168.81882	95.24938	8.01648	0.2556682	0.22419917	2.6835728	20	10 10.5	20.8
475415 2006 KP_{18}	16.7	X	305.50338	192.10611	146.94748	10.29676	0.1656782	0.21903582	2.7255822	20	6 25.4	20.0
475416 2006 KE_{22}	16.8	X	88.40511	193.38062	64.22372	12.50830	0.1375022	0.23088655	2.6315015	20	10 28.9	20.8
475417 2006 KZ_{23}	16.7	X	45.89530	207.47467	63.39325	12.71478	0.0527544	0.22546100	2.6735507	20	9 15.1	20.4
475418 2006 KM_{35}	17.0	X	69.18507	57.55320	191.12361	15.51028	0.1553371	0.22513837	2.6761043	20	9 22.9	20.8
475419 2006 KK_{52}	16.5	X	133.91802	350.44088	229.13974	16.55945	0.1194003	0.23385416	2.6091917	20	10 21.5	20.6
475420 2006 KK_{66}	17.0	X	329.81052	266.25731	59.13323	12.65862	0.1436443	0.22109151	2.7086611	20	7 26.8	20.1
475421 2006 KN_{80}	17.5	X	314.23354	123.75788	207.93899	10.89870	0.1744652	0.21559248	2.7545267	20	6 27.3	20.8
475422 2006 KP_{95}	17.5	X	234.52110	342.92858	169.88208	6.54435	0.1561812	0.24261700	2.5459814	20	11 13.5	21.0
475423 2006 KH_{100}	16.3	X	87.37507	320.50397	249.71497	10.38772	0.2100566	0.22441880	2.6818216	20	8 27.2	20.6
475424 2006 KX_{122}	16.8	X	59.56805	156.08841	97.99741	9.73458	0.1319113	0.22361543	2.6882410	20	9 20.7	20.6
475425 2006 MR_{1}	16.8	X	286.18157	235.30812	129.21347	12.09164	0.1534237	0.21896376	2.7261802	20	7 2.4	20.3
475426 2006 PH	16.4	X	351.46424	38.32324	277.70116	7.78141	0.1415352	0.21200387	2.7855237	20	8 17.2	19.5
475427 2006 PV_{10}	18.4	X	86.18252	158.92796	177.39333	2.54489	0.1826445	0.30435890	2.1888300	20	—	—
475428 2006 PJ_{20}	16.6	X	1.77238	288.07326	44.25005	9.42015	0.2997660	0.21572647	2.7533860	20	10 26.8	19.0
475429 2006 QZ_{4}	17.0	X	282.29049	146.70418	215.15261	1.32510	0.0817752	0.20342245	2.8633216	20	7 3.5	20.7
475430 2006 QW_{11}	17.9	X	79.23051	310.06456	1.21423	4.50485	0.2124116	0.30029731	2.2085221	20	—	—
475431 2006 QG_{17}	18.1	X	60.61284	235.31582	129.59094	8.18464	0.1666213	0.30348800	2.1930155	20	—	—
475432 2006 QA_{87}	18.8	X	25.53477	207.07480	176.76149	4.32873	0.2323241	0.29737718	2.2229565	20	—	—
475433 2006 QW_{98}	18.4	X	79.34434	15.13072	318.12569	3.82660	0.2308556	0.30124216	2.2039017	20	—	—
475434 2006 QR_{121}	16.6	X	276.40649	321.71716	16.72436	6.67487	0.2270496	0.19828736	2.9125454	20	5 3.2	20.8
475435 2006 QR_{130}	16.6	X	327.43371	308.55789	347.53016	18.81459	0.2408735	0.20439859	2.8541981	20	5 14.1	20.1
475436 2006 QZ_{147}	16.6	X	285.19927	31.04809	0.66167	9.60845	0.0924763	0.20622287	2.8373408	20	8 19.2	20.3
475437 2006 QS_{170}	16.4	X	275.38723	43.20253	338.89038	14.70020	0.1541961	0.20399796	2.8579338	20	7 13.7	20.5
475438 2006 QD_{173}	17.0	X	240.20344	83.15145	354.95970	5.69467	0.1821046	0.20587328	2.8405519	20	8 7.4	21.3
475439 2006 QG_{183}	17.5	X	295.35709	131.27726	225.59546	1.88948	0.1743222	0.20209793	2.8758185	20	7 1.2	20.9
475440 2006 QC_{185}	16.8	X	317.03400	309.77780	23.04650	2.19451	0.0732961	0.20285019	2.8687042	20	7 17.3	20.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
475441 2006 RP_{15}	18.1	X	73.12141	65.76996	276.60873	4.72791	0.2005445	0.30099374	2.2051142	20	—	—
475442 2006 RQ_{21}	16.7	X	213.76500	279.95305	139.65921	2.84535	0.0887977	0.19649880	2.9301923	20	6 23.5	21.0
475443 2006 RG_{24}	18.5	X	100.17861	85.38749	221.80939	5.15600	0.2145397	0.30309259	2.1949224	20	—	—
475444 2006 RM_{35}	15.8	X	336.69891	246.36700	30.15888	11.50328	0.0605972	0.19728516	2.9224007	20	5 29.3	19.7
475445 2006 RD_{51}	18.1	X	357.09607	219.98773	187.68805	5.59008	0.1561340	0.29259375	2.2471187	20	—	—
475446 2006 RM_{52}	18.3	X	25.65722	29.59704	20.13383	3.86517	0.0462144	0.29952898	2.2122973	20	—	—
475447 2006 RJ_{54}	18.4	X	108.67582	28.42728	10.13546	20.42663	0.1063958	0.38621174	1.8674647	20	1 3.2	20.5
475448 2006 RG_{55}	16.6	X	195.54843	24.74005	23.34785	10.66150	0.0969721	0.18830228	3.0146183	20	5 17.7	21.4
475449 2006 RB_{56}	17.8	X	313.55115	238.32537	99.32342	1.68867	0.1347380	0.20052928	2.8907965	20	7 10.5	21.0
475450 2006 RF_{59}	17.9	X	58.91121	172.20362	192.16117	7.25230	0.1620805	0.29900653	2.2148735	20	—	—
475451 2006 RL_{65}	17.8	X	57.85608	355.42662	2.84454	6.00668	0.1918599	0.30025498	2.2087297	20	—	—
475452 2006 RR_{66}	16.5	X	202.89179	36.49365	11.57220	12.62358	0.2051105	0.18869537	3.0104301	20	5 20.2	21.8
475453 2006 RL_{68}	16.9	X	221.09030	57.74542	7.95680	6.10925	0.0518223	0.20000499	2.8958462	20	7 14.7	21.1
475454 2006 RD_{74}	17.2	X	260.86019	155.64871	182.09997	13.69518	0.0846180	0.19156464	2.9802943	20	5 7.2	21.6
475455 2006 RB_{76}	16.9	X	217.36074	347.52926	14.35360	3.65955	0.0924304	0.18688836	3.0298041	20	4 15.6	21.5
475456 2006 RT_{78}	17.0	X	320.67822	158.16467	173.87204	6.36346	0.0884439	0.20249408	2.8720666	20	7 18.7	20.7
475457 2006 RQ_{79}	17.1	X	228.10623	354.00089	24.75583	2.68391	0.1202035	0.19187905	2.9770377	20	5 15.4	21.6
475458 2006 RT_{85}	16.4	X	316.58922	332.45634	5.47077	15.25534	0.1498664	0.20279702	2.8692056	20	7 19.5	20.1
475459 2006 RK_{86}	18.8	X	338.53604	67.79154	7.47740	4.24977	0.1024950	0.29547103	2.2325067	20	—	—
475460 2006 RY_{87}	18.0	X	221.37662	169.47267	9.12308	7.56368	0.0473556	0.29436384	2.2381013	20	12 29.0	20.7
475461 2006 RM_{115}	16.1	X	194.37787	113.54213	9.11572	15.03571	0.0978469	0.20298169	2.8674651	20	8 27.4	20.6
475462 2006 SW_{5}	18.9	X	110.37297	129.45750	350.37510	9.00866	0.3951843	0.39693008	1.8336933	20	6 20.2	21.9
475463 2006 SW_{26}	18.0	X	82.82656	333.95139	355.42970	5.26625	0.1810956	0.30062515	2.2069162	20	—	—
475464 2006 SH_{38}	17.9	X	51.21546	45.96273	339.76778	7.26955	0.1301290	0.30131876	2.2035281	20	—	—
475465 2006 SX_{66}	18.6	X	64.32962	178.91615	175.99848	2.06324	0.1067405	0.29951035	2.2123890	20	—	—
475466 2006 SL_{73}	17.3	X	271.74287	259.78685	71.51253	2.98495	0.2258648	0.19211557	2.9745938	20	4 21.9	21.7
475467 2006 SL_{81}	18.2	X	58.75466	178.13852	180.82246	3.80207	0.1467849	0.29849088	2.2174236	20	—	—
475468 2006 SN_{83}	18.3	X	345.04714	51.23607	34.34697	4.89568	0.1577638	0.29695769	2.2250495	20	—	—
475469 2006 SU_{89}	16.7	X	198.57575	207.96524	203.25899	9.56023	0.1015614	0.18862462	3.0111829	20	5 27.9	21.4
475470 2006 ST_{92}	18.7	X	321.13617	241.43723	200.19877	5.62962	0.1305686	0.29036336	2.2586113	20	—	—
475471 2006 SC_{93}	17.2	X	253.86035	347.32554	21.77175	10.27082	0.1143859	0.19249110	2.9707238	20	5 30.4	21.7
475472 2006 SP_{116}	16.4	X	58.75410	170.55710	16.28303	8.35660	0.0563857	0.19169900	2.9789015	20	5 31.4	20.5
475473 2006 SD_{117}	17.3	X	286.79578	285.19251	24.35128	6.70533	0.1424841	0.19034817	2.9929784	20	4 22.1	21.3
475474 2006 SZ_{152}	18.3	X	282.44054	263.47813	204.85560	5.98716	0.1022915	0.29306533	2.2447075	20	12 16.9	20.5
475475 2006 SM_{158}	17.2	X	329.26070	329.17176	13.86965	5.99541	0.0517491	0.20580992	2.8411349	20	8 22.8	20.8
475476 2006 SM_{163}	17.2	X	260.10492	137.00293	198.13011	11.69405	0.1089907	0.18842177	3.0133437	20	4 28.7	21.6
475477 2006 SL_{169}	17.1	X	342.71731	86.19717	199.04899	10.37614	0.1070781	0.19967616	2.8990247	20	6 19.5	20.8
475478 2006 ST_{175}	18.7	X	52.96474	210.50073	173.98594	1.44284	0.1627679	0.30305635	2.1950974	20	—	—
475479 2006 SQ_{176}	16.9	X	78.43814	164.84992	3.98617	9.64314	0.0385579	0.19081457	2.9880993	20	5 31.4	21.1
475480 2006 SE_{185}	18.6	X	88.99472	325.30796	340.72791	0.75191	0.1671308	0.29445256	2.2376517	20	—	—
475481 2006 SR_{185}	17.0	X	265.86933	140.65025	203.80792	9.80690	0.1153914	0.19045325	2.9918774	20	5 16.3	21.3
475482 2006 SQ_{193}	17.5	X	336.70132	298.56794	339.72397	1.37076	0.1356566	0.19798070	2.9155522	20	5 27.8	20.9
475483 2006 SF_{212}	18.3	X	100.97937	264.93391	34.14936	7.85631	0.1305035	0.29377550	2.2410885	20	—	—
475484 2006 SE_{215}	17.8	X	91.88297	157.47410	174.15671	7.20959	0.2513801	0.30172741	2.2015381	20	—	—
475485 2006 SM_{226}	18.9	X	52.81544	49.91303	342.08540	8.34793	0.0975863	0.30315177	2.1946367	20	—	—
475486 2006 SX_{245}	17.0	X	240.20264	7.74736	26.79467	2.05929	0.1109756	0.19715826	2.9236546	20	6 18.8	21.4
475487 2006 SM_{252}	17.0	X	206.73088	43.10118	355.60092	2.74221	0.1158932	0.18987206	2.9979796	20	5 18.4	21.7
475488 2006 SP_{253}	17.4	X	232.37334	235.14838	154.87077	1.80063	0.1919244	0.19345519	2.9608458	20	5 28.5	22.2
475489 2006 SF_{258}	17.7	X	210.66047	30.99788	4.46561	0.77399	0.1881468	0.18858153	3.0116415	20	5 15.4	22.7
475490 2006 SS_{260}	17.0	X	259.81693	349.00861	1.40724	5.95972	0.1928330	0.19306635	2.9648199	20	5 4.3	21.5
475491 2006 SG_{263}	18.0	X	106.42624	339.01351	336.88376	6.71027	0.1403252	0.29958428	2.2120250	20	—	—
475492 2006 SZ_{264}	17.9	X	33.83881	23.90965	344.01286	6.15557	0.1529749	0.29330606	2.2434791	20	—	—
475493 2006 SL_{265}	18.3	X	26.63729	122.42149	270.67790	4.04481	0.1410768	0.29549131	2.2324046	20	—	—
475494 2006 SP_{265}	17.9	X	25.31551	123.90396	295.98073	4.03618	0.1212985	0.29944563	2.2127078	20	—	—
475495 2006 SH_{267}	16.7	X	117.57123	254.39733	236.42224	8.52706	0.0294637	0.18756544	3.0225083	20	6 2.2	20.9
475496 2006 SN_{268}	18.9	X	88.41337	73.34817	252.38005	3.70093	0.1824884	0.29822521	2.2187404	20	—	—
475497 2006 SV_{271}	18.2	X	357.59841	148.82054	278.32690	4.02258	0.1058959	0.29567307	2.2314896	20	—	—
475498 2006 SC_{286}	17.5	X	36.80802	226.53285	109.74762	6.90283	0.1239951	0.29058295	2.2574733	20	12 17.1	20.2
475499 2006 SU_{295}	16.8	X	224.36698	14.79072	0.18227	8.03013	0.0833077	0.19053411	2.9910309	20	5 7.5	21.4
475500 2006 SO_{301}	18.7	X	113.06458	214.11089	204.13120	21.95512	0.0620454	0.39012114	1.8549679	20	1 24.7	21.0
475501 2006 SW_{307}	17.8	X	70.28922	12.38298	340.86878	3.65139	0.1847309	0.29980449	2.2109417	20	—	—
475502 2006 SR_{310}	16.8	X	271.38615	110.08704	211.54892	8.53022	0.0635556	0.18936211	3.0033596	20	4 30.6	21.1
475503 2006 SR_{314}	16.4	X	177.96585	259.69153	180.66180	8.84314	0.0835352	0.19048040	2.9915931	20	6 11.8	21.1
475504 2006 SZ_{315}	18.0	X	262.78214	241.76197	18.42693	21.67872	0.0536339	0.39143829	1.8508044	20	1 7.3	20.6
475505 2006 SU_{325}	16.7	X	146.09201	271.59474	179.43255	3.00045	0.1412656	0.18410659	3.0602471	20	5 25.7	21.5
475506 2006 SV_{327}	17.3	X	259.54218	312.84798	62.79822	3.12761	0.1072622	0.19446383	2.9505988	20	6 17.7	21.5
475507 2006 SB_{329}	16.7	X	159.64273	322.64618	90.26082	2.72509	0.1567480	0.18075086	3.0980076	20	4 23.6	21.6
475508 2006 SW_{330}	18.5	X	22.86266	143.55348	217.62728	4.10020	0.1922356	0.29057238	2.2575281	20	—	—
475509 2006 SB_{336}	18.1	X	25.85418	308.86842	78.20363	3.63041	0.1641408	0.29561672	2.2317732	20	—	—
475510 2006 SY_{337}	18.1	X	62.23926	157.99082	154.82051	5.23314	0.2082322	0.29278678	2.2461309	20	12 24.8	21.5
475511 2006 SW_{342}	16.7	X	325.93338	115.72579	226.43792	9.12236	0.1019228	0.20263272	2.8707563	20	8 6.8	20.4
475512 2006 SJ_{347}	16.6	X	297.63988	61.69380	215.29132	3.68637	0.1884571	0.18734838	3.0248424	20	3 18.8	20.8
475513 2006 SS_{351}	19.2	X	356.12862	87.34300	17.99165	4.93616	0.2975836	0.30004240	2.2097728	20	—	—
475514 2006 ST_{351}	18.4	X	15.42757	350.79173	30.23388	4.90944	0.2442857	0.29285691	2.2457724	20	—	—
475515 2006 SB_{358}	16.8	X	231.84997	19.65262	26.60562	9.78353	0.0728942	0.19185434	2.9772934	20	6 28.7	21.3
475516 2006 SK_{364}	16.3	X	241.00997	334.44921	37.47329	10.14738	0.1257542	0.18631524	3.0360142	20	5 18.9	21.0
475517 2006 SJ_{367}	17.5	X	84.80589	248.10483	82.63489	9.94378	0.2146434	0.30035200	2.2082540	20	—	—
475518 2006 SC_{372}	18.9	X	110.83036	15.87113	37.99737	20.96353	0.0721936	0.38658220	1.8662715	20	2 2.9	21.2
475519 2006 SZ_{374}	16.8	X	141.69581	332.36513	147.77135	12.32346	0.0397605	0.19018289	2.9947122	20	6 19.9	21.4
475520 2006 SA_{382}	16.9	X	222.27409	328.90821	73.74024	10.66065	0.0692387	0.19200481	2.9757377	20	6 12.7	21.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
475521 2006 SJ_{386}	16.9	X	263.05184	230.90647	133.59955	11.76910	0.1049677	0.19217352	2.9739958	20	6 9.7	21.4
475522 2006 SE_{391}	17.1	X	283.29202	300.98334	28.33919	11.07878	0.1147046	0.19329484	2.9624831	20	5 15.3	21.2
475523 2006 ST_{394}	17.3	X	242.93321	183.42500	221.18579	1.16086	0.0621440	0.19908474	2.9047632	20	7 11.1	21.3
475524 2006 SL_{396}	17.2	X	267.09006	14.13946	321.80681	1.57038	0.2041090	0.19336851	2.9617306	20	4 23.8	21.6
475525 2006 SM_{397}	18.3	X	333.92206	82.27812	356.48799	4.40168	0.0975289	0.29269820	2.2465841	20	—	—
475526 2006 SG_{398}	16.6	X	210.95601	350.98921	53.20995	9.90873	0.0973417	0.18701619	3.0284233	20	5 30.5	21.3
475527 2006 SV_{398}	18.4	X	4.63019	185.11871	224.15766	2.91736	0.1583141	0.29512560	2.2342484	20	—	—
475528 2006 SX_{398}	16.9	X	282.89883	305.16615	344.31506	5.13427	0.2523237	0.19096413	2.9865389	20	3 9.4	21.5
475529 2006 SO_{403}	16.5	X	324.89745	274.87384	44.38994	12.36878	0.1823610	0.19602522	2.9349098	20	6 28.4	19.9
475530 2006 SB_{407}	18.3	X	49.16483	279.88309	75.15692	3.58906	0.2188796	0.29682784	2.2256983	20	—	—
475531 2006 SB_{411}	17.1	X	219.85306	25.90271	7.08537	8.68492	0.0978378	0.18937529	3.0032202	20	5 24.5	21.8
475532 2006 SD_{412}	17.1	X	217.87729	198.81994	216.36903	9.21699	0.1682826	0.18989825	2.9977040	20	6 16.2	22.0
475533 2006 SK_{412}	16.8	X	224.93694	7.11365	37.48810	9.70828	0.0591206	0.18947441	3.0021727	20	6 18.8	21.3
475534 2006 TS_{7}	21.2	X	199.30986	300.00307	225.19550	5.50133	0.5802665	1.07062824	0.9463321	20	—	—
475535 2006 TN_{10}	16.8	X	286.76910	80.43414	246.98047	4.86793	0.0769630	0.19420658	2.9532039	20	5 25.4	20.7
475536 2006 TO_{11}	16.5	X	209.64896	83.89843	3.85600	17.22615	0.1317264	0.19814004	2.9139888	20	7 27.9	21.3
475537 2006 TA_{15}	16.8	X	283.56435	138.06686	225.07098	5.37822	0.1131297	0.19806020	2.9147719	20	7 1.5	20.7
475538 2006 TD_{17}	17.8	X	356.93412	1.14764	30.25054	9.38981	0.1692437	0.28929625	2.2641621	20	—	—
475539 2006 TJ_{18}	16.9	X	202.82394	358.45478	45.10145	6.75440	0.1320478	0.18746164	3.0236240	20	5 20.0	21.8
475540 2006 TA_{19}	16.7	X	211.14057	189.00421	222.97751	13.00246	0.1600399	0.18920532	3.0050185	20	6 6.6	21.6
475541 2006 TB_{19}	18.0	X	17.18728	3.13414	18.26493	7.28137	0.1780326	0.29134064	2.2535576	20	—	—
475542 2006 TB_{26}	17.0	X	241.76542	9.22003	13.93961	1.61387	0.1345009	0.19144694	2.9815156	20	6 3.2	21.4
475543 2006 TB_{28}	16.8	X	225.69776	341.03638	41.51812	6.93042	0.2065024	0.18858971	3.0115544	20	5 11.5	21.6
475544 2006 TB_{30}	16.3	X	121.18264	78.88585	40.19083	11.61790	0.0480561	0.18465152	3.0542234	20	5 23.0	20.7
475545 2006 TG_{30}	17.9	X	105.26270	274.62415	40.68709	6.86471	0.0610931	0.29637063	2.2279868	20	—	—
475546 2006 TL_{41}	17.2	X	206.45091	46.36951	30.14001	3.60175	0.1737405	0.19092097	2.9869891	20	7 1.9	22.0
475547 2006 TR_{53}	17.6	X	14.44567	16.36656	53.47881	6.66287	0.1139407	0.29704441	2.2246164	20	—	—
475548 2006 TB_{54}	17.1	X	220.25450	5.90204	56.19602	10.14585	0.0755433	0.19125045	2.9835575	20	7 5.3	21.6
475549 2006 TR_{56}	17.6	X	319.57406	215.12932	218.16464	22.47083	0.2285303	0.28566715	2.2832976	20	—	—
475550 2006 TX_{59}	16.9	X	217.19256	1.93803	9.92820	4.64653	0.1675470	0.18426443	3.0584992	20	4 23.2	21.8
475551 2006 TG_{69}	16.7	X	248.06848	294.63791	115.27268	9.10921	0.2082200	0.19787990	2.9165422	20	7 5.7	21.2
475552 2006 TR_{72}	18.4	X	45.36881	36.69279	359.94579	3.03631	0.2158677	0.29961741	2.2118620	20	—	—
475553 2006 TL_{78}	18.4	X	228.17327	284.18028	37.43458	21.53264	0.0657723	0.39359888	1.8440250	20	3 3.9	21.0
475554 2006 TS_{79}	16.3	X	311.07493	40.91785	248.57219	8.24188	0.0134604	0.18629550	3.0362287	20	5 17.2	20.5
475555 2006 TB_{81}	18.5	X	49.25445	19.17016	351.59025	4.75522	0.1890761	0.29625018	2.2285906	20	—	—
475556 2006 TW_{82}	16.4	X	318.11245	58.32922	239.20815	10.17416	0.1124364	0.19181493	2.9777011	20	5 26.2	20.1
475557 2006 TB_{84}	16.9	X	278.63853	39.88399	326.32029	4.73737	0.0874618	0.19570693	2.9380910	20	7 3.7	20.8
475558 2006 TU_{88}	16.5	X	352.67838	185.76903	21.82892	6.58301	0.0244031	0.17660938	3.1462523	20	3 29.6	20.8
475559 2006 TM_{90}	16.8	X	217.24469	24.61103	36.06179	15.23033	0.1649658	0.19008990	2.9956888	20	6 21.5	21.8
475560 2006 TP_{93}	16.4	X	296.35098	130.35698	228.46374	7.03640	0.1205767	0.19847498	2.9107095	20	7 12.3	20.2
475561 2006 TK_{96}	17.5	X	76.28131	4.66685	334.45206	5.83380	0.2632001	0.29860776	2.2168450	20	—	—
475562 2006 TA_{100}	18.2	X	324.22430	188.15292	261.93382	2.84107	0.1223819	0.29186876	2.2508383	20	—	—
475563 2006 TO_{103}	16.7	X	213.60363	206.58383	209.48024	9.12678	0.1474202	0.19016848	2.9948634	20	6 14.7	21.5
475564 2006 TY_{112}	17.0	X	261.39137	247.20692	155.59719	12.54839	0.0447072	0.19847553	2.9107042	20	8 3.0	21.1
475565 2006 TZ_{121}	17.5	X	218.51010	56.45835	341.99504	0.87901	0.2098654	0.18921344	3.0049325	20	5 24.6	22.5
475566 2006 TE_{122}	18.4	X	6.47402	310.92488	48.08243	4.39519	0.1761612	0.28654574	2.2786279	20	12 12.7	20.8
475567 2006 TH_{123}	17.4	X	239.04227	347.08337	10.82784	0.46228	0.1734416	0.18613550	3.0379684	20	4 26.7	22.2
475568 2006 TF_{126}	17.3	X	233.99995	100.18918	310.45881	3.37765	0.0844208	0.19350001	2.9603886	20	7 5.6	21.6
475569 2006 TZ_{126}	18.0	X	302.23741	13.81828	54.08300	6.39955	0.1281182	0.28329781	2.2960107	20	11 17.8	19.7
475570 2006 TS_{127}	18.2	X	44.57391	102.77427	199.35812	5.15174	0.2239140	0.28614909	2.2807331	20	11 24.3	21.3
475571 2006 TV_{128}	17.2	X	253.34108	256.86565	124.56877	2.66905	0.1038564	0.19495221	2.9456690	20	6 18.3	21.5
475572 2006 UH	17.8	X	32.43083	44.20153	342.71151	9.79181	0.2018781	0.29640344	2.2278223	20	—	—
475573 2006 UC_{10}	18.5	X	9.54812	214.81491	199.54832	5.80579	0.1960448	0.29301833	2.2449475	20	—	—
475574 2006 UJ_{10}	17.4	X	310.61994	81.79952	39.70644	8.29131	0.0409098	0.29684952	2.2255899	20	—	—
475575 2006 UG_{13}	18.6	X	48.59099	161.82072	185.00547	1.66139	0.1982996	0.29239552	2.2481342	20	—	—
475576 2006 UO_{27}	17.2	X	232.54839	35.77524	29.05611	0.64610	0.1280942	0.19605938	2.9345688	20	7 17.2	21.6
475577 2006 UT_{27}	18.5	X	13.96920	178.29897	217.72394	1.64059	0.1627766	0.29329452	2.2435380	20	—	—
475578 2006 UW_{27}	17.0	X	251.81364	359.78317	28.22775	11.16718	0.1109972	0.19443155	2.9509254	20	6 23.6	21.4
475579 2006 UC_{29}	16.8	X	283.53262	331.69109	16.39352	1.72181	0.1099073	0.19475890	2.9476178	20	6 12.2	20.7
475580 2006 UP_{32}	17.3	X	231.68814	143.34210	219.99765	2.49819	0.2324000	0.18755782	3.0225901	20	4 22.4	22.2
475581 2006 UU_{32}	18.2	X	20.60313	168.27578	210.53709	3.61828	0.1504339	0.29155760	2.2524395	20	—	—
475582 2006 UO_{33}	18.3	X	41.15566	279.04981	35.75253	4.18974	0.2408383	0.28747680	2.2737053	20	12 8.2	21.3
475583 2006 UN_{34}	17.1	X	248.01857	15.24689	51.48543	2.64094	0.0426924	0.20061724	2.8899515	20	8 19.9	21.0
475584 2006 UX_{37}	16.8	X	265.83278	67.34212	303.52053	0.85082	0.1377034	0.19331015	2.9623267	20	6 14.9	21.0
475585 2006 UY_{39}	16.9	X	191.77347	184.77460	222.48905	8.81410	0.0940602	0.18480452	3.0525374	20	5 15.7	21.6
475586 2006 UA_{42}	17.0	X	261.67780	173.51642	191.50220	1.09278	0.1015331	0.19061255	2.9902103	20	6 7.5	21.3
475587 2006 UR_{42}	16.9	X	236.65231	244.75381	156.85354	1.94294	0.0793965	0.19126905	2.9833640	20	6 27.2	21.3
475588 2006 UX_{42}	17.4	X	213.70506	277.13925	172.02356	2.09608	0.0537325	0.19566379	2.9385229	20	8 2.9	21.6
475589 2006 UX_{45}	17.9	X	18.46054	356.70174	60.75153	5.84140	0.1034744	0.29530560	2.2333404	20	—	—
475590 2006 UG_{46}	16.5	X	257.79726	94.98796	222.09873	21.26866	0.1003068	0.18077010	3.0977877	20	3 31.9	21.4
475591 2006 UR_{50}	18.0	X	61.77348	315.84815	6.79067	7.76459	0.1618167	0.29213754	2.2494576	20	—	—
475592 2006 UE_{60}	17.9	X	57.15881	21.26102	309.15961	3.91583	0.2136800	0.29273199	2.2464112	20	—	—
475593 2006 UW_{60}	16.9	X	173.31779	59.14661	7.65891	3.85345	0.1261318	0.18271576	3.0757571	20	5 20.1	21.9
475594 2006 UX_{73}	17.9	X	333.75913	182.53898	289.84703	3.28141	0.1052445	0.29888256	2.2154860	20	—	—
475595 2006 UH_{77}	16.8	X	216.37276	160.06379	230.67510	9.72183	0.0844815	0.18799498	3.0179025	20	5 21.3	21.2
475596 2006 UU_{79}	17.4	X	231.44777	291.70228	92.61532	2.17162	0.1362076	0.19035026	2.9929564	20	5 25.1	22.0
475597 2006 UY_{81}	17.8	X	274.64847	94.10831	3.94591	6.27587	0.1365164	0.28252170	2.3002136	20	11 7.3	20.0
475598 2006 UW_{84}	16.8	X	249.47718	298.81656	49.37526	10.09165	0.2496811	0.18755068	3.0226669	20	4 20.1	21.8
475599 2006 UR_{86}	16.8	X	276.46079	322.02706	46.25050	20.72653	0.0421318	0.19261334	2.9694668	20	7 11.0	21.3
475600 2006 UP_{87}	16.6	X	245.72281	317.73793	45.75439	5.84786	0.1552587	0.18713017	3.0271934	20	5 11.7	21.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
475601 2006 UC_{91}	17.7	X	310.70096	33.80126	35.71486	6.41379	0.1382175	0.28324045	2.2963206	20	12 6.8	19.7
475602 2006 UV_{92}	17.7	X	15.36511	348.58833	44.22715	7.58917	0.1184427	0.29282482	2.2459364	20	—	—
475603 2006 UU_{117}	16.9	X	202.62955	185.10570	207.05098	8.94609	0.0289292	0.18592082	3.0403065	20	5 11.3	21.2
475604 2006 UA_{128}	17.1	X	206.91748	166.38187	245.11018	3.39844	0.0174574	0.18895989	3.0076200	20	6 10.1	21.2
475605 2006 UE_{129}	18.3	X	9.32452	198.60851	235.89802	2.63399	0.0621403	0.29859287	2.2169186	20	—	—
475606 2006 UV_{130}	17.4	X	261.91590	15.40582	332.02691	1.39288	0.1902595	0.19122235	2.9838498	20	5 4.4	21.9
475607 2006 UL_{133}	16.8	X	226.37254	151.66259	214.85140	11.32117	0.1068793	0.18510042	3.0492833	20	4 30.4	21.6
475608 2006 UJ_{135}	16.9	X	247.98007	146.18198	203.40929	8.21196	0.2234076	0.18867369	3.0106607	20	4 21.1	21.6
475609 2006 UJ_{136}	16.8	X	172.25163	73.64264	22.21030	10.06586	0.0586439	0.18845598	3.0129790	20	6 24.3	21.4
475610 2006 UX_{137}	16.7	X	316.02011	327.28236	19.41858	11.36840	0.1079628	0.19838843	2.9115561	20	8 4.2	20.4
475611 2006 UC_{139}	17.8	X	314.28723	80.46777	15.94513	7.35085	0.0574349	0.29012653	2.2598403	20	—	—
475612 2006 UN_{144}	16.0	X	273.67220	118.70045	241.30060	10.97734	0.1323710	0.19185558	2.9772805	20	6 11.4	20.1
475613 2006 UV_{154}	17.4	X	256.94464	8.74444	15.05266	7.16851	0.1511473	0.19462633	2.9489562	20	6 18.9	21.9
475614 2006 UZ_{158}	17.0	X	210.39258	6.06084	58.76841	6.04793	0.0548311	0.19329961	2.9624343	20	6 28.9	21.4
475615 2006 UK_{165}	17.7	X	159.66798	116.68768	73.87029	4.19215	0.1053704	0.28063916	2.3104888	20	10 21.3	20.9
475616 2006 UD_{167}	16.4	X	154.67163	22.43896	51.36641	10.49029	0.0279875	0.18416497	3.0596004	20	5 6.2	20.8
475617 2006 UM_{167}	17.2	X	309.64018	236.65460	110.84592	3.22026	0.0608142	0.19917403	2.9038950	20	7 26.8	20.9
475618 2006 UF_{168}	16.4	X	288.03559	271.70534	45.44989	10.56878	0.0982519	0.19053921	2.9909775	20	5 10.2	20.6
475619 2006 UT_{168}	16.9	X	267.92424	271.38722	113.75559	3.20703	0.0803120	0.19747168	2.9205603	20	7 15.1	20.9
475620 2006 UC_{170}	17.4	X	171.52590	249.28894	188.69697	9.11899	0.1355419	0.18602285	3.0391947	20	6 3.1	22.4
475621 2006 UN_{173}	17.0	X	209.93059	289.61352	102.71924	2.54714	0.1637229	0.18418851	3.0593396	20	5 12.9	21.9
475622 2006 UP_{180}	17.9	X	42.88513	261.88596	109.91645	5.37185	0.1775734	0.29543993	2.2326634	20	—	—
475623 2006 US_{186}	16.2	X	301.12278	314.94566	31.85124	15.60416	0.1593677	0.20233214	2.8735988	20	6 29.0	20.1
475624 2006 UO_{192}	16.1	X	235.42687	359.62614	20.45665	16.26358	0.2505407	0.19014753	2.9950834	20	5 10.0	21.4
475625 2006 UF_{198}	17.8	X	36.84396	183.68338	209.45515	4.82345	0.2217283	0.29653185	2.2271792	20	—	—
475626 2006 UF_{199}	18.2	X	315.46671	54.85373	48.14477	4.30869	0.1419135	0.29016981	2.2596156	20	—	—
475627 2006 UN_{199}	18.7	X	175.70029	179.25826	189.88782	21.42529	0.0721083	0.39804593	1.8302648	20	2 14.6	21.0
475628 2006 UD_{213}	16.9	X	236.56934	50.76674	337.29937	2.14934	0.1935609	0.18921463	3.0049200	20	5 29.1	21.8
475629 2006 UC_{216}	18.4	X	38.65734	134.63816	256.66335	0.97142	0.2141073	0.29762626	2.2217161	20	—	—
475630 2006 UL_{219}	15.9	X	136.75158	269.42728	215.46376	25.42131	0.2073578	0.18531795	3.0468967	20	6 26.8	21.4
475631 2006 UW_{223}	15.4	X	335.48465	53.97294	242.79038	11.05759	0.1346483	0.19697979	2.9254203	20	6 20.7	18.7
475632 2006 UZ_{235}	17.2	X	280.16986	320.32899	35.41515	2.33958	0.0817199	0.19528751	2.9422963	20	6 22.2	21.1
475633 2006 UX_{236}	16.9	X	118.81808	295.20608	181.14402	3.89799	0.0073076	0.18552881	3.0445876	20	5 14.1	21.1
475634 2006 UD_{240}	16.0	X	300.01531	8.95417	256.05126	2.76027	0.0744096	0.18020640	3.1042444	20	3 23.7	20.2
475635 2006 UD_{241}	16.5	X	165.28309	214.77429	220.65034	12.61430	0.1329931	0.18060366	3.0996906	20	5 24.6	21.4
475636 2006 UQ_{241}	16.8	X	276.19975	322.62576	19.39747	3.09784	0.1262138	0.18873246	3.0100358	20	5 22.7	20.9
475637 2006 UY_{241}	16.8	X	242.51607	169.63850	214.77484	9.08507	0.1050108	0.19315368	2.9639262	20	6 9.4	21.3
475638 2006 UN_{252}	17.4	X	212.82633	173.72071	216.38875	5.11595	0.1287196	0.18670131	3.0318274	20	5 14.4	22.1
475639 2006 UH_{254}	17.0	X	249.85450	213.14933	221.99200	15.80847	0.0422279	0.20113592	2.8849810	20	8 25.9	21.4
475640 2006 UV_{254}	16.6	X	247.03527	283.27380	45.27175	10.32792	0.0931384	0.18140292	3.0905792	20	4 9.8	21.3
475641 2006 US_{255}	16.9	X	254.17411	179.29175	224.89593	11.16425	0.0997802	0.19500387	2.9451487	20	7 16.4	21.3
475642 2006 UC_{261}	16.5	X	125.04662	211.06058	224.00686	9.33024	0.0713602	0.17490446	3.1666650	20	4 5.7	21.2
475643 2006 UL_{264}	17.0	X	283.60123	12.45190	16.94850	10.44613	0.0951839	0.20269368	2.8701807	20	8 14.3	20.9
475644 2006 UP_{264}	18.2	X	350.45334	24.52990	38.98727	3.65916	0.1417477	0.29344911	2.2427499	20	—	—
475645 2006 UK_{265}	18.5	X	345.55457	254.68210	174.57981	1.96223	0.1926930	0.29219132	2.2491816	20	—	—
475646 2006 UN_{266}	16.4	X	120.83539	55.19346	51.47560	14.84541	0.0375802	0.18165234	3.0877494	20	5 7.9	20.8
475647 2006 UA_{270}	16.2	X	166.99501	188.77689	247.58937	8.90966	0.1322754	0.18274589	3.0754191	20	5 26.8	21.1
475648 2006 UJ_{279}	16.7	X	165.78175	212.29017	217.48852	9.63760	0.0865394	0.18268453	3.0761077	20	5 16.7	21.4
475649 2006 UF_{282}	18.4	X	326.35504	26.63087	65.72467	3.76507	0.1303238	0.29060983	2.2573341	20	—	—
475650 2006 UH_{284}	18.2	X	353.50595	47.84414	36.61251	3.59982	0.0752536	0.29634978	2.2280913	20	—	—
475651 2006 UN_{285}	17.1	X	282.74508	341.07807	27.76522	2.00883	0.1054982	0.19573995	2.9377606	20	7 9.9	21.1
475652 2006 UH_{289}	16.9	X	297.78719	301.26249	15.74074	12.51082	0.1588557	0.19229122	2.9727821	20	5 10.9	21.1
475653 2006 UP_{289}	17.2	X	229.92886	148.61587	252.79522	3.09317	0.2045225	0.19032694	2.9932010	20	6 7.8	22.1
475654 2006 UL_{334}	16.7	X	224.26431	17.01275	52.67844	18.39903	0.1812227	0.19167500	2.9791503	20	7 10.2	21.7
475655 2006 UD_{337}	16.7	X	290.30229	95.34086	234.08245	11.30033	0.1143941	0.18817978	3.0159264	20	5 27.5	20.8
475656 2006 UW_{339}	16.7	X	123.20968	73.66095	37.37691	5.18381	0.0873807	0.18150173	3.0894573	20	5 20.8	21.4
475657 2006 UX_{339}	18.4	X	76.32153	86.27888	231.30032	3.40066	0.2133174	0.29340093	2.2429954	20	—	—
475658 2006 UR_{341}	17.3	X	190.21870	91.99340	23.79082	2.16144	0.0520883	0.19661871	2.9290007	20	8 10.9	21.5
475659 2006 UU_{346}	16.2	X	286.91727	287.78593	56.32180	10.00197	0.0856110	0.19024548	2.9940553	20	6 14.6	20.3
475660 2006 UJ_{360}	17.9	X	303.45247	56.25212	18.13297	5.66926	0.1263118	0.28295947	2.2978406	20	11 29.0	19.9
475661 2006 VG_{9}	16.9	X	205.84968	332.28267	62.47565	6.69370	0.2484604	0.18541781	3.0458026	20	5 9.4	22.3
475662 2006 VA_{10}	16.5	X	316.47706	90.51470	233.20596	7.74888	0.1831845	0.19681609	2.9270422	20	6 18.7	20.0
475663 2006 VF_{10}	16.6	X	249.57601	301.43158	56.07599	2.74966	0.2353661	0.18947330	3.0021844	20	4 30.9	21.6
475664 2006 VH_{12}	18.1	X	329.58906	245.26868	188.02428	2.06618	0.1548976	0.28714753	2.2754432	20	—	—
475665 2006 VY_{13}	17.1	X	237.98883	17.62950	139.86844	4.67267	0.6134920	0.19745938	2.9206816	20	9 29.6	22.6
475666 2006 VQ_{16}	16.5	X	311.32059	285.44071	46.61054	10.67258	0.0727695	0.19338290	2.9615836	20	7 7.2	20.5
475667 2006 VU_{16}	16.9	X	209.58355	15.59817	41.05420	3.71458	0.1323526	0.18793837	3.0185086	20	6 12.1	21.6
475668 2006 VR_{18}	18.3	X	81.69227	316.95393	5.00807	2.87477	0.1950997	0.29426082	2.2386237	20	—	—
475669 2006 VV_{23}	16.7	X	239.48846	174.31913	220.32115	5.61290	0.1447042	0.19052248	2.9911526	20	6 14.4	21.3
475670 2006 VQ_{27}	16.4	X	293.78045	88.35730	240.93435	8.87536	0.1139651	0.18971095	2.9996767	20	6 1.1	20.2
475671 2006 VK_{28}	16.9	X	201.76646	53.80424	48.18804	10.82266	0.0671101	0.19299432	2.9655576	20	8 8.8	21.5
475672 2006 VE_{41}	16.5	X	272.86470	248.17872	59.61543	10.03204	0.1581494	0.18317439	3.0706209	20	4 6.5	21.1
475673 2006 VQ_{44}	16.2	X	202.91617	314.44384	58.34262	13.75089	0.1752283	0.18137626	3.0908819	20	4 17.1	21.4
475674 2006 VE_{46}	17.3	X	218.26918	161.30400	280.46786	2.54696	0.1317623	0.19346112	2.9607853	20	7 22.5	21.8
475675 2006 VF_{46}	18.7	X	48.39209	47.54670	303.17099	1.60547	0.1767872	0.29175868	2.2514045	20	—	—
475676 2006 VH_{53}	18.3	X	326.91420	143.93145	313.67363	3.69475	0.0655477	0.29214412	2.2494238	20	—	—
475677 2006 VA_{55}	17.2	X	231.48644	290.35859	63.08837	9.86174	0.1414075	0.18227616	3.0807004	20	4 19.9	22.1
475678 2006 VO_{58}	17.5	X	213.62395	146.93914	81.41106	6.72095	0.0485304	0.29554838	2.2321172	20	—	—
475679 2006 VH_{59}	16.9	X	202.43666	359.59495	74.52460	6.42893	0.1333280	0.18817417	3.0159863	20	6 26.9	21.7
475680 2006 VZ_{63}	18.2	X	76.35371	325.56265	64.35523	3.68352	0.1653583	0.30204483	2.1999954	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
475681 2006 VY_{64}	17.0	X	204.60049	231.25253	188.63665	0.78705	0.1454869	0.18598750	3.0395798	20	6 10.9	21.7
475682 2006 VC_{72}	18.2	X	333.67814	15.74934	65.28103	3.85857	0.1152833	0.28935324	2.2638648	20	—	—
475683 2006 VE_{79}	17.7	X	21.42807	306.61585	74.87216	7.47154	0.1131030	0.28982299	2.2614179	20	—	—
475684 2006 VL_{80}	18.0	X	321.25086	352.71258	93.47400	5.00926	0.0921387	0.28812374	2.2703005	20	—	—
475685 2006 VG_{81}	15.9	X	267.45353	261.49960	76.01773	12.05025	0.1751466	0.18593468	3.0401554	20	5 4.0	20.5
475686 2006 VA_{88}	16.3	X	266.22977	34.21009	254.33139	8.51659	0.0713257	0.17596965	3.1538731	20	3 9.6	21.1
475687 2006 VB_{91}	18.3	X	287.65249	177.44477	277.06838	3.82262	0.1746462	0.28270362	2.2992267	20	11 24.8	20.1
475688 2006 VD_{93}	16.6	X	154.52747	14.97287	72.45250	18.29092	0.1777847	0.18070757	3.0985023	20	5 30.8	21.8
475689 2006 VP_{93}	16.1	X	79.18169	73.36302	67.66388	14.21687	0.0182328	0.17841622	3.1249746	20	4 30.1	20.6
475690 2006 VD_{97}	18.6	X	10.52232	144.00901	272.98301	0.69346	0.1177560	0.29632797	2.2282006	20	—	—
475691 2006 VD_{98}	17.6	X	337.86638	349.71376	63.03379	8.22427	0.1843541	0.28607061	2.2811502	20	—	—
475692 2006 VQ_{102}	16.1	X	172.65974	192.59403	232.82546	16.91649	0.2034694	0.18070778	3.0984998	20	5 20.1	21.4
475693 2006 VV_{105}	16.8	X	274.04733	305.06595	50.95707	10.87641	0.1159709	0.19098659	2.9863048	20	6 8.0	21.1
475694 2006 VB_{108}	18.4	X	33.49307	323.88465	30.86259	4.03346	0.2619095	0.29000471	2.2604731	20	—	—
475695 2006 VO_{112}	17.0	X	190.83525	106.29058	302.17702	6.62383	0.3274160	0.18317558	3.0706077	20	5 11.3	22.7
475696 2006 VY_{113}	17.7	X	308.45383	89.83169	26.86354	3.73886	0.0767279	0.29306663	2.2447009	20	—	—
475697 2006 VN_{115}	18.5	X	347.08839	25.74719	64.68710	3.79969	0.0754945	0.29481728	2.2358059	20	—	—
475698 2006 VK_{117}	16.4	X	253.67144	300.49741	53.24863	10.20726	0.1430154	0.18667676	3.0320932	20	5 9.9	21.0
475699 2006 VV_{117}	18.3	X	88.90343	62.68984	254.70268	2.11402	0.2235337	0.29399367	2.2399796	20	—	—
475700 2006 VR_{118}	16.5	X	110.92133	63.37735	57.13851	16.99019	0.1562052	0.17686519	3.1432178	20	5 26.4	21.3
475701 2006 VU_{120}	17.2	X	204.55931	206.00526	240.03513	8.94176	0.0724617	0.19132806	2.9827506	20	7 15.9	21.8
475702 2006 VS_{124}	16.6	X	184.76349	352.35940	53.63198	10.76253	0.1608632	0.18026149	3.1036119	20	5 7.3	21.7
475703 2006 VS_{128}	18.2	X	56.82600	13.21890	302.40425	3.89158	0.1811619	0.28652575	2.2787339	20	12 19.1	21.3
475704 2006 VN_{130}	18.6	X	64.42746	118.72776	223.40351	3.89462	0.1787647	0.29272488	2.2464476	20	—	—
475705 2006 VU_{133}	16.5	X	269.60660	77.68665	265.33035	7.40060	0.1085494	0.18596481	3.0398270	20	5 18.1	20.9
475706 2006 VB_{137}	16.7	X	359.30093	174.77434	63.92652	19.23843	0.0336836	0.18062982	3.0993913	20	5 17.2	20.9
475707 2006 VG_{142}	19.3	X	266.26823	154.45903	226.54953	6.71433	0.3689761	0.19684248	2.9267806	20	5 30.7	24.2
475708 2006 VC_{161}	17.7	X	273.65255	203.01909	184.24744	1.89305	0.0780718	0.20205689	2.8762079	20	7 25.8	21.6
475709 2006 VF_{170}	17.5	X	47.90088	100.61934	248.64820	5.53324	0.1585427	0.28886348	2.2664229	20	—	—
475710 2006 VL_{170}	17.9	X	281.95388	13.48448	89.07275	6.19160	0.1861931	0.27831133	2.3233544	20	11 23.8	19.8
475711 2006 VN_{171}	18.1	X	23.76893	298.00749	48.60552	7.04874	0.1441839	0.28422656	2.2910063	20	12 14.5	20.9
475712 2006 VR_{171}	17.6	X	305.60358	358.13654	118.35565	4.58284	0.1290080	0.28896275	2.2659039	20	—	—
475713 2006 VN_{173}	16.8	X	149.88494	5.30670	75.45409	12.18816	0.0504329	0.17968115	3.1102911	20	5 12.8	21.4
475714 2006 WB_{4}	17.5	X	342.57928	81.50074	351.90619	8.05266	0.0841030	0.29215349	2.2493757	20	—	—
475715 2006 WL_{4}	18.4	X	208.20551	266.38226	54.58721	22.80907	0.0918056	0.38855125	1.8599610	20	1 30.5	21.2
475716 2006 WF_{10}	16.3	X	292.83390	112.40930	224.71704	15.20374	0.2059340	0.19202141	2.9755661	20	5 27.1	20.3
475717 2006 WG_{10}	17.0	X	208.79656	317.75746	122.60824	5.39505	0.1474185	0.18962854	3.0005457	20	7 10.0	21.6
475718 2006 WJ_{10}	17.0	X	218.08391	165.87970	213.47582	9.06909	0.1909905	0.18366181	3.0651859	20	5 3.0	22.0
475719 2006 WV_{10}	18.0	X	25.35824	245.29326	248.90816	18.28374	0.0677631	0.38293453	1.8781043	20	—	—
475720 2006 WK_{29}	17.4	X	5.34046	119.20461	241.64328	45.78467	0.1401259	0.28364567	2.2941331	20	12 3.5	19.9
475721 2006 WW_{30}	18.5	X	0.02120	4.78295	20.51337	3.46154	0.1684918	0.28678101	2.2773815	20	—	—
475722 2006 WQ_{31}	18.5	X	338.88411	323.87217	109.74669	2.61337	0.1708980	0.28949125	2.2631452	20	—	—
475723 2006 WG_{33}	17.1	X	225.25174	356.45056	74.71507	11.01265	0.0752662	0.19293042	2.9662124	20	7 24.1	21.5
475724 2006 WR_{36}	16.8	X	267.86326	133.74755	211.45280	10.07612	0.0651374	0.18611483	3.0381932	20	5 26.5	21.1
475725 2006 WD_{38}	16.4	X	243.05817	355.01333	76.04035	12.52248	0.0765152	0.19677377	2.9274618	20	8 17.4	20.8
475726 2006 WN_{38}	17.9	X	294.00552	197.89743	250.12710	4.31236	0.1933579	0.28243707	2.3006731	20	11 27.7	19.1
475727 2006 WT_{38}	16.9	X	279.11672	302.26251	75.26514	9.91571	0.1981882	0.19520932	2.9430819	20	7 1.7	20.9
475728 2006 WS_{39}	17.1	X	191.11791	282.16603	127.93986	2.20888	0.1814446	0.18198004	3.0840415	20	5 17.5	22.3
475729 2006 WB_{44}	18.5	X	314.53453	346.84019	127.69886	3.21772	0.1749290	0.29067183	2.2570131	20	—	—
475730 2006 WV_{46}	16.1	X	42.04258	293.81518	269.86202	7.33580	0.0059185	0.18154102	3.0890115	20	5 25.9	20.4
475731 2006 WC_{47}	17.2	X	266.41803	116.05259	254.52650	12.60835	0.2873018	0.19300970	2.9654001	20	5 26.7	21.8
475732 2006 WQ_{54}	18.0	X	29.13871	303.61017	67.99498	6.18604	0.1226669	0.28766239	2.2727273	20	—	—
475733 2006 WJ_{67}	18.2	X	44.31900	174.18929	204.67625	5.31232	0.1644585	0.29369918	2.2414767	20	—	—
475734 2006 WG_{71}	16.9	X	319.29861	70.39683	248.33651	7.41576	0.0569463	0.19152181	2.9807385	20	7 1.2	20.7
475735 2006 WZ_{74}	16.8	X	300.49400	96.60273	247.86245	9.46598	0.0704369	0.19226877	2.9730135	20	7 6.0	20.8
475736 2006 WO_{77}	16.7	X	206.92368	11.47742	55.42626	2.92954	0.1616511	0.18792356	3.0186672	20	6 20.8	21.5
475737 2006 WC_{79}	17.0	X	221.18663	121.99468	273.86351	4.96939	0.1899584	0.18641379	3.0349440	20	5 24.8	21.9
475738 2006 WN_{83}	16.6	X	222.43542	296.89345	91.11198	10.43256	0.0761210	0.18347809	3.0672316	20	5 26.5	21.2
475739 2006 WX_{88}	17.7	X	26.94825	312.88356	101.52120	5.22316	0.1647917	0.29509766	2.2343895	20	—	—
475740 2006 WK_{89}	16.8	X	222.92079	118.35999	287.67631	5.95208	0.1795490	0.18620306	3.0372334	20	6 8.8	21.8
475741 2006 WV_{93}	17.7	X	233.57988	320.86121	95.81956	2.95567	0.2751319	0.19160123	2.9799149	20	6 24.1	22.7
475742 2006 WX_{96}	17.4	X	217.27981	75.92741	337.83890	0.72022	0.2954300	0.18824807	3.0151970	20	6 6.6	22.8
475743 2006 WK_{97}	18.3	X	30.90217	325.90716	48.73781	1.47567	0.1380148	0.29028406	2.2590227	20	—	—
475744 2006 WD_{99}	17.2	X	219.61950	178.47123	232.20562	3.82375	0.2166270	0.18800614	3.0177831	20	6 9.3	22.3
475745 2006 WM_{99}	18.4	X	2.28957	289.70384	66.88558	5.98095	0.1814887	0.28205953	2.3027256	20	12 2.2	20.6
475746 2006 WN_{102}	18.8	X	22.10191	129.21413	240.57884	4.05227	0.2208085	0.28862859	2.2676524	20	—	—
475747 2006 WR_{105}	17.0	X	207.71259	286.02605	84.53819	4.11044	0.1725168	0.17969176	3.1101686	20	4 15.9	22.1
475748 2006 WT_{111}	18.4	X	24.83725	153.63074	204.00511	1.38114	0.2426361	0.28719233	2.2752065	20	—	—
475749 2006 WG_{127}	15.9	X	181.56246	114.13758	296.47801	15.68383	0.1421750	0.17152246	3.2081553	20	5 4.9	21.4
475750 2006 WU_{128}	17.3	X	254.76418	117.60748	255.25622	7.21642	0.2763203	0.19106660	2.9854710	20	5 19.5	22.2
475751 2006 WS_{132}	16.6	X	320.05738	57.47049	236.38759	0.56533	0.0588074	0.18593413	3.0401614	20	5 30.5	20.7
475752 2006 WG_{134}	16.7	X	277.33551	318.26319	23.16604	10.16404	0.1148045	0.19093793	2.9868121	20	5 23.3	20.9
475753 2006 WL_{137}	17.9	X	233.51644	316.93568	235.89454	3.55885	0.0711175	0.29076434	2.2565344	20	—	—
475754 2006 WJ_{141}	18.3	X	83.38111	229.96844	99.74331	3.79921	0.1645144	0.29399188	2.2399887	20	—	—
475755 2006 WX_{152}	16.4	X	273.40020	301.62912	89.24497	15.85958	0.2016869	0.19603699	2.9347923	20	7 11.4	20.5
475756 2006 WB_{153}	15.9	X	224.61172	121.09148	290.64100	20.20906	0.0282277	0.18053398	3.1004882	20	7 2.4	20.3
475757 2006 WO_{153}	15.9	X	199.44419	284.65293	100.95843	17.72437	0.1486402	0.17260284	3.1947540	20	5 3.2	21.3
475758 2006 WY_{160}	16.6	X	262.88211	103.83141	227.69929	10.32204	0.1093892	0.18760113	3.0221250	20	4 25.5	21.0
475759 2006 WJ_{161}	17.1	X	251.94673	114.98547	228.88952	3.30147	0.1770985	0.18552099	3.0446732	20	4 21.6	21.7
475760 2006 WB_{163}	18.7	X	12.82394	296.92395	105.08234	2.81872	0.1543810	0.29144919	2.2529981	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
475761 2006 WF_{163}	16.0	X	51.67633	311.55849	225.74685	8.71876	0.0239583	0.17903339	3.1177888	20	5 7.2	20.3
475762 2006 WW_{163}	16.7	X	191.61518	316.19171	86.48251	6.33357	0.1266114	0.18172414	3.0869361	20	5 10.6	21.7
475763 2006 WE_{171}	17.1	X	161.14294	329.64864	104.32489	2.44053	0.1421994	0.17909028	3.1171285	20	5 19.2	22.1
475764 2006 WM_{171}	16.3	X	211.08074	118.49114	237.03889	8.40506	0.0959930	0.17575801	3.1564044	20	3 30.7	21.4
475765 2006 WS_{173}	16.4	X	103.75300	282.36075	238.98815	10.10448	0.0611137	0.18483377	3.0522153	20	6 27.4	20.9
475766 2006 WG_{182}	16.4	X	290.70361	261.91680	72.71887	10.67063	0.1219483	0.18829821	3.0146617	20	6 2.6	20.3
475767 2006 WV_{183}	17.5	X	294.58061	1.67066	88.76764	7.75988	0.1369191	0.27777607	2.3263381	20	12 5.5	19.6
475768 2006 WZ_{188}	16.4	X	176.61983	180.76881	241.24089	8.72618	0.0553628	0.17974889	3.1095096	20	5 17.4	21.0
475769 2006 WC_{189}	16.2	X	248.11598	143.31456	243.95038	9.28348	0.1325899	0.18942376	3.0027079	20	6 15.7	20.7
475770 2006 WE_{192}	18.1	X	285.15832	231.86357	240.66910	1.49528	0.1833397	0.28299172	2.2976660	20	12 18.2	19.5
475771 2006 WQ_{192}	17.5	X	187.08573	268.24250	134.87149	0.10683	0.1940925	0.17979080	3.1090264	20	5 5.1	22.7
475772 2006 WT_{193}	16.6	X	218.96423	336.98569	89.49117	11.84857	0.1140577	0.18501564	3.0502148	20	7 5.4	21.3
475773 2006 WC_{195}	15.9	X	107.95754	230.38146	234.16851	15.18081	0.2125756	0.17237103	3.1976176	20	5 11.0	20.7
475774 2006 WY_{199}	18.5	X	26.90798	147.78121	257.72036	2.72870	0.1903149	0.29365704	2.2416911	20	—	—
475775 2006 WS_{200}	16.3	X	207.13963	167.23034	287.73670	8.18393	0.0345683	0.18731504	3.0252013	20	8 2.6	20.6
475776 2006 WA_{201}	18.1	X	16.31633	123.08454	282.67837	2.68332	0.2102000	0.28733134	2.2744727	20	—	—
475777 2006 WJ_{201}	15.8	X	49.12061	281.76870	259.60919	14.52811	0.0572501	0.17641938	3.1485109	20	5 11.4	20.1
475778 2006 WA_{203}	16.3	X	108.97242	38.93233	87.88719	18.14285	0.1459361	0.17499868	3.1655283	20	6 2.8	21.1
475779 2006 WR_{203}	18.2	X	306.86058	172.79312	257.67123	6.10042	0.0836546	0.28116781	2.3075918	20	11 30.6	20.4
475780 2006 WZ_{204}	18.0	X	50.29300	270.82348	83.37503	7.45206	0.1500064	0.28909381	2.2652190	20	—	—
475781 2006 XU_{1}	16.8	X	182.56686	232.57402	226.35994	10.28671	0.3280527	0.18407537	3.0605931	20	7 4.3	22.6
475782 2006 XN_{2}	15.6	X	99.38994	268.56995	258.12674	24.98936	0.1690730	0.18005220	3.1060165	20	7 8.2	20.5
475783 2006 XR_{2}	16.7	X	207.53986	327.39353	61.37762	12.63569	0.0764431	0.18157180	3.0886625	20	5 10.9	21.5
475784 2006 XA_{13}	15.9	X	34.31771	300.46540	262.24291	17.12648	0.1134358	0.17633961	3.1494603	20	5 24.7	19.9
475785 2006 XV_{15}	16.9	X	171.34470	237.50287	206.44525	0.58674	0.1693793	0.17971245	3.1099299	20	6 9.7	22.1
475786 2006 XJ_{16}	17.5	X	291.14305	179.48989	298.43135	6.30516	0.0704752	0.28255814	2.3000159	20	—	—
475787 2006 XP_{20}	16.8	X	208.43740	334.19704	103.68809	6.97051	0.1649365	0.18455846	3.0552499	20	7 5.5	21.7
475788 2006 XR_{20}	16.0	X	184.43382	186.23076	276.05430	23.59508	0.2217787	0.18344547	3.0675953	20	7 10.2	21.3
475789 2006 XL_{23}	15.7	X	314.57616	26.03508	237.82812	22.51470	0.0771231	0.17630478	3.1498750	20	4 7.7	20.3
475790 2006 XV_{24}	15.9	X	180.33550	177.51770	260.55694	16.14459	0.2165487	0.18231444	3.0802692	20	6 10.2	21.0
475791 2006 XQ_{29}	17.1	X	250.87005	140.25200	243.94225	8.73141	0.1610548	0.18864747	3.0109397	20	6 11.5	21.5
475792 2006 XN_{31}	16.6	X	250.16050	316.57816	70.65936	10.77695	0.1469085	0.18846320	3.0129020	20	6 15.9	21.1
475793 2006 XW_{34}	18.1	X	298.74559	165.22781	295.88137	4.72470	0.1261610	0.28243964	2.3006592	20	—	—
475794 2006 XD_{35}	16.4	X	176.27117	171.30737	268.48451	4.35149	0.1502248	0.17959095	3.1113325	20	6 8.8	21.5
475795 2006 XU_{36}	15.9	X	48.29643	79.94830	99.41748	19.91950	0.1056832	0.16952757	3.2332739	20	5 21.3	20.4
475796 2006 XW_{38}	16.0	X	186.60513	126.60550	286.97750	16.96972	0.1431357	0.17603657	3.1530737	20	5 15.0	21.3
475797 2006 XP_{43}	16.7	X	230.04865	117.87005	299.64218	9.40017	0.3106113	0.18852061	3.0122903	20	6 20.0	21.9
475798 2006 XH_{54}	16.3	X	193.03020	19.82462	78.19393	16.60749	0.1426749	0.18568151	3.0429182	20	7 17.8	21.3
475799 2006 XM_{56}	16.5	X	108.91069	34.75852	106.44926	14.18294	0.1529301	0.17413724	3.1759594	20	6 20.3	21.3
475800 2006 XJ_{62}	16.3	X	232.89503	71.43644	289.64736	14.35696	0.2571029	0.17895309	3.1187214	20	4 13.2	21.9
475801 2006 XM_{62}	18.3	X	352.02122	316.25634	90.33356	4.51433	0.1620747	0.28335702	2.2956908	20	—	—
475802 Zurek	16.6	X	225.66785	138.86934	246.81545	8.66671	0.1397228	0.17328873	3.1863184	20	5 20.4	21.7
475803 2006 XV_{69}	16.0	X	138.47457	211.35038	292.78705	11.07890	0.1619674	0.18017485	3.1046068	20	7 22.7	20.9
475804 2006 XT_{72}	17.6	X	204.80842	5.93884	66.31275	2.17833	0.2428742	0.18337121	3.0684234	20	6 21.7	22.8
475805 2006 YJ_{1}	17.7	X	356.80378	337.22069	72.74886	6.73663	0.1728512	0.28641936	2.2792981	20	—	—
475806 2006 YV_{4}	16.4	X	191.96305	191.61391	232.48223	10.91774	0.0757495	0.18556612	3.0441795	20	6 5.9	21.0
475807 2006 YZ_{15}	18.4	X	182.89546	248.43229	83.54131	23.44754	0.0845814	0.38211837	1.8807776	20	1 7.3	20.5
475808 2006 YU_{18}	16.0	X	182.06145	98.97529	318.36065	18.72320	0.1609309	0.17278764	3.1924757	20	5 12.3	21.6
475809 2006 YH_{27}	16.6	X	153.83490	185.88379	291.83445	6.49756	0.1050575	0.18021085	3.1041933	20	7 3.1	21.3
475810 2006 YN_{28}	16.6	X	139.40060	152.68561	300.79012	10.53480	0.1850935	0.17332961	3.1858173	20	5 23.1	21.9
475811 2006 YZ_{28}	18.0	X	297.34568	71.11082	26.92412	3.10564	0.1532403	0.28013587	2.3132553	20	12 22.8	19.8
475812 2006 YK_{30}	17.9	X	340.91439	94.38643	308.31133	5.71468	0.1167867	0.27934916	2.3175964	20	12 22.0	20.2
475813 2006 YH_{52}	18.1	X	276.75353	119.65351	319.02771	6.04880	0.1014110	0.27203336	2.3589638	20	10 14.2	20.8
475814 2006 YL_{52}	18.3	X	302.85112	355.01484	95.80178	4.12806	0.1379711	0.27884193	2.3204061	20	12 22.8	20.2
475815 2006 YB_{54}	16.2	X	195.59468	114.00184	305.52080	9.01161	0.0597530	0.17742449	3.1366086	20	6 3.9	21.0
475816 2006 YT_{55}	17.1	X	257.14338	171.64453	315.45574	24.29429	0.1934270	0.27234281	2.3571765	20	10 26.9	20.6
475817 2007 AX_{6}	15.2	X	85.22741	219.29950	304.05328	16.90675	0.1669353	0.17256986	3.1951611	20	6 24.3	19.9
475818 2007 AS_{9}	15.8	X	132.52705	154.15784	300.55560	6.64290	0.1575311	0.17125239	3.2115273	20	5 16.3	20.9
475819 2007 AR_{11}	17.5	X	184.38653	256.25946	299.04141	5.45732	0.0678308	0.27308999	2.3528751	20	11 23.3	20.7
475820 2007 AB_{13}	17.8	X	326.71616	315.35933	85.50509	5.33093	0.2292592	0.28069343	2.3101910	20	12 3.9	19.1
475821 2007 AY_{16}	16.2	X	156.30325	349.19195	112.00875	17.15125	0.1168206	0.17672342	3.1448986	20	6 16.9	21.3
475822 2007 AS_{20}	16.6	X	194.79298	24.14042	64.45520	4.25160	0.2115073	0.18102438	3.0948861	20	7 4.7	21.8
475823 2007 AF_{21}	17.6	X	330.89058	314.11302	136.14709	5.91088	0.1044853	0.28150880	2.3057280	20	—	—
475824 2007 AC_{23}	16.6	X	249.81220	213.13745	190.45572	2.33483	0.2346289	0.18775803	3.0204411	20	6 26.3	21.4
475825 2007 AF_{26}	18.1	X	34.64807	329.28324	120.36372	24.00416	0.0775792	0.37044596	1.9200806	20	—	—
475826 2007 AU_{30}	17.8	X	311.66495	318.24381	110.47258	8.73263	0.0824984	0.27756070	2.3275413	20	12 6.7	20.3
475827 2007 BM	15.7	X	101.56784	65.62421	112.29854	27.22000	0.2338032	0.17720093	3.1392463	20	8 5.8	20.8
475828 2007 BU_{3}	16.0	X	179.79522	144.16381	296.42942	27.43306	0.1712842	0.17881357	3.1203434	20	6 15.9	21.4
475829 2007 BF_{4}	16.0	X	148.16386	188.49007	324.28426	10.54762	0.0766683	0.18366361	3.0651658	20	8 9.5	20.5
475830 2007 BS_{6}	17.7	X	322.86252	247.88336	303.28754	17.84300	0.0828992	0.37321602	1.9105681	20	—	—
475831 2007 BB_{12}	17.2	X	61.15379	310.40377	329.69586	14.20824	0.1315723	0.26277228	2.4140690	20	10 20.7	20.8
475832 2007 BE_{12}	17.9	X	345.00122	55.56655	351.41819	6.02921	0.1625651	0.27881727	2.3205429	20	—	—
475833 2007 BU_{12}	17.4	X	210.12253	30.01333	46.57282	1.80713	0.2573409	0.18297219	3.0728828	20	6 30.5	22.6
475834 2007 BY_{13}	16.9	X	129.06858	83.87427	46.44171	1.76638	0.1191239	0.17418899	3.1753303	20	6 23.9	21.7
475835 2007 BG_{14}	16.1	X	278.39060	27.77630	323.18582	10.09514	0.1433545	0.17878982	3.1206198	20	6 2.8	20.6
475836 2007 BB_{18}	15.8	X	217.56656	276.66899	132.75583	23.74230	0.2040703	0.18045363	3.1014085	20	6 11.3	21.3
475837 2007 BF_{24}	17.8	X	97.12292	291.92824	300.75124	1.07103	0.1188569	0.26115121	2.4240488	20	10 5.1	21.3
475838 2007 BM_{26}	16.4	X	104.92654	220.39602	308.91150	6.47237	0.1338620	0.17645431	3.1480953	20	7 18.7	21.2
475839 2007 BN_{34}	17.9	X	231.50108	40.30206	127.13381	2.77767	0.1495270	0.27634054	2.3343877	20	12 6.4	20.8
475840 2007 BX_{40}	16.1	X	199.82290	291.88336	132.13217	16.53295	0.2257562	0.17778335	3.1323863	20	6 11.1	21.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
475841 2007 BV_{42}	16.5	X	187.11058	324.79827	124.58165	11.81233	0.0984982	0.17904738	3.1176264	20	7 1.7	21.3
475842 2007 BS_{43}	17.7	X	269.88439	148.63475	327.80156	2.83431	0.1901019	0.27411255	2.3470199	20	11 16.4	20.0
475843 2007 BS_{44}	18.2	X	301.47133	114.30018	330.21902	2.97235	0.0712320	0.27684063	2.3315756	20	12 10.4	20.6
475844 2007 BT_{44}	18.5	X	246.78283	325.78961	307.62152	14.98126	0.0990930	0.37588622	1.9015093	20	1 5.7	20.8
475845 2007 BZ_{46}	16.4	X	213.35716	85.87418	345.25710	8.05580	0.1667448	0.17959283	3.1113107	20	7 2.5	21.5
475846 2007 BY_{47}	18.0	X	305.29711	8.80180	93.11477	3.69762	0.0573981	0.27690524	2.3312129	20	—	—
475847 2007 BG_{48}	17.7	X	242.78352	29.08885	121.00416	8.89426	0.0975488	0.27288286	2.3540655	20	12 7.1	20.5
475848 2007 BK_{48}	18.1	X	337.15482	333.54016	92.01051	4.33693	0.1750600	0.27905584	2.3192201	20	—	—
475849 2007 BC_{55}	15.9	X	272.10570	52.00640	290.54532	14.44570	0.1912013	0.17845586	3.1245118	20	5 6.3	20.8
475850 2007 BR_{55}	16.2	X	82.19196	217.85567	319.14186	14.90658	0.1562550	0.17251371	3.1958543	20	7 7.2	20.9
475851 2007 BD_{56}	15.9	X	184.40203	125.36288	324.35934	9.60146	0.1823454	0.17913115	3.1166543	20	6 28.8	21.2
475852 2007 BE_{57}	15.9	X	195.51668	345.88996	119.99947	14.88389	0.0970942	0.18299464	3.0726314	20	7 31.5	20.5
475853 2007 BO_{57}	17.8	X	357.45962	90.92052	337.46343	6.83862	0.1472095	0.28587297	2.2822015	20	—	—
475854 2007 BD_{60}	16.4	X	188.86994	143.48984	337.78214	11.51267	0.1482921	0.18432661	3.0578114	20	8 12.3	21.3
475855 2007 BZ_{60}	16.0	X	305.22359	43.20005	298.68733	14.92299	0.0513318	0.18378668	3.0637973	20	7 13.4	20.0
475856 2007 BZ_{64}	17.9	X	354.75347	256.22225	149.79368	5.94277	0.1602900	0.27851377	2.3222284	20	—	—
475857 2007 BJ_{68}	16.4	X	147.57162	314.85839	151.14480	14.71443	0.0403773	0.17084121	3.2166783	20	6 9.9	21.4
475858 2007 BQ_{76}	16.0	X	141.49317	150.07635	299.74796	10.33227	0.0295189	0.17214384	3.2004304	20	5 7.2	20.8
475859 2007 BB_{77}	16.1	X	175.68869	151.87103	312.02349	13.11898	0.0178154	0.17720806	3.1391621	20	7 9.9	20.7
475860 2007 BT_{79}	16.1	X	147.96386	173.70297	307.66126	8.23604	0.0409785	0.17354447	3.1831873	20	6 28.3	20.8
475861 2007 BU_{86}	16.3	X	223.05774	92.73003	311.42505	9.41658	0.1632425	0.17993087	3.1074127	20	6 7.4	21.4
475862 2007 BH_{100}	18.7	X	347.13240	55.87175	2.09093	2.22411	0.1560025	0.28110989	2.3079087	20	—	—
475863 2007 CG_{1}	15.7	X	126.02782	46.07582	140.03867	17.88032	0.1541335	0.18149990	3.0894781	20	9 2.1	20.6
475864 2007 CA_{3}	18.3	X	341.39831	229.00897	186.49962	2.08728	0.1921189	0.27963867	2.3159965	20	—	—
475865 2007 CU_{3}	16.3	X	151.01991	142.88128	327.03836	11.48266	0.0946676	0.17577499	3.1562011	20	6 20.3	21.3
475866 2007 CM_{7}	18.1	X	280.54756	144.31232	331.14160	5.19279	0.1029274	0.27832069	2.3233023	20	12 18.5	20.4
475867 2007 CU_{12}	17.5	X	338.77677	124.70107	323.28733	6.14233	0.0699562	0.28324786	2.2962806	20	—	—
475868 2007 CZ_{12}	17.5	X	290.02778	244.56445	311.49453	18.49811	0.0372873	0.36645114	1.9340098	20	—	—
475869 2007 CB_{16}	17.7	X	253.72284	106.67084	79.00356	4.67022	0.1394527	0.28202339	2.3029224	20	—	—
475870 2007 CJ_{26}	17.9	X	267.58754	43.07923	74.85317	4.65169	0.1830649	0.27526324	2.3404745	20	11 17.6	19.9
475871 2007 CA_{29}	17.6	X	319.27585	300.15483	128.95252	8.40570	0.1627113	0.27853416	2.3221151	20	12 24.9	19.6
475872 2007 CO_{31}	18.3	X	313.77559	146.26223	314.22858	0.59740	0.1381492	0.28114200	2.3077330	20	—	—
475873 2007 CJ_{34}	16.0	X	281.29844	46.50613	319.35415	8.65674	0.0667235	0.17883619	3.1200804	20	7 9.8	20.4
475874 2007 CB_{35}	16.2	X	130.55632	157.43733	331.19965	14.63714	0.2005176	0.17229267	3.1985871	20	7 1.5	21.6
475875 2007 CT_{35}	17.9	X	242.46542	165.93659	320.99192	3.30195	0.1297166	0.27069092	2.3667566	20	10 26.9	20.9
475876 2007 CD_{36}	16.9	X	156.00750	14.92253	123.07158	3.04118	0.1390786	0.18048489	3.1010503	20	7 31.2	21.7
475877 2007 CN_{43}	18.6	X	324.06699	298.56199	170.39115	2.13966	0.1715120	0.28413996	2.2914718	20	—	—
475878 2007 CN_{45}	16.4	X	202.35612	126.88542	327.51708	12.07033	0.2022027	0.18319698	3.0703686	20	7 20.5	21.6
475879 2007 CP_{45}	17.2	X	238.64127	164.30348	334.77803	6.59263	0.0605480	0.27148115	2.3621615	20	11 17.8	20.1
475880 2007 CC_{49}	16.2	X	135.64434	197.19734	292.67795	8.12266	0.0387045	0.17360852	3.1824043	20	6 24.0	20.8
475881 2007 CV_{50}	16.4	X	156.91144	358.69451	134.79946	6.62317	0.1906709	0.17914752	3.1164645	20	7 27.2	21.7
475882 2007 CB_{57}	16.5	X	186.58701	109.74985	346.84587	14.71714	0.2810721	0.18190670	3.0848704	20	7 9.1	22.3
475883 2007 CH_{57}	15.9	X	102.21585	192.01259	337.91004	16.40060	0.1672388	0.17492615	3.1664033	20	7 24.2	20.9
475884 2007 CB_{62}	17.3	X	304.75539	244.18236	304.89448	18.57589	0.0990663	0.36676170	1.9329178	20	—	—
475885 2007 CK_{63}	15.8	X	174.27908	331.27042	150.29900	18.89801	0.1758954	0.17954486	3.1118649	20	7 26.9	21.1
475886 2007 CP_{65}	16.2	X	168.54950	97.96507	50.05701	6.41170	0.1981467	0.18289275	3.0737725	20	8 26.8	21.5
475887 2007 CE_{66}	18.1	X	276.85392	349.69517	152.67168	5.10740	0.0838932	0.27604898	2.3360311	20	—	—
475888 2007 DM_{2}	16.6	X	185.16578	95.75968	30.78126	3.40924	0.2281106	0.18433242	3.0577471	20	8 12.3	21.8
475889 2007 DR_{4}	16.6	X	196.94140	71.57754	67.99316	9.15044	0.3652022	0.19003416	2.9962745	20	9 3.5	22.3
475890 2007 DF_{26}	16.6	X	188.53557	89.98833	346.61987	23.45140	0.2343380	0.17494014	3.1662345	20	6 13.8	22.5
475891 2007 DT_{27}	17.7	X	229.06376	25.57289	108.38003	2.87111	0.1437270	0.26603586	2.3942855	20	10 18.8	20.7
475892 2007 DA_{28}	16.3	X	165.73794	110.88394	355.16076	15.43567	0.0698693	0.17210445	3.2009187	20	7 1.7	21.4
475893 2007 DJ_{31}	18.0	X	263.65769	349.90505	136.08165	2.45524	0.1681455	0.27252774	2.3561100	20	11 24.1	20.4
475894 2007 DH_{34}	17.8	X	296.35043	80.42540	356.40575	4.61335	0.1897207	0.27027890	2.3691612	20	11 8.4	19.6
475895 2007 DU_{39}	15.7	X	86.63893	211.46424	294.16095	14.88877	0.0555749	0.17037154	3.2225873	20	5 13.9	20.5
475896 2007 DV_{40}	16.6	X	139.08922	182.54913	318.69656	11.65491	0.0876055	0.17524127	3.1626063	20	7 17.3	21.5
475897 2007 DF_{45}	16.5	X	232.14452	86.05907	325.67653	11.73175	0.1637753	0.17972048	3.1098373	20	6 27.2	21.5
475898 2007 DM_{49}	17.2	X	249.69276	305.04623	164.78639	22.85252	0.2926040	0.26967866	2.3726754	20	9 20.4	20.3
475899 2007 DF_{50}	17.6	X	223.32373	41.32661	127.11927	2.93192	0.1354030	0.27171538	2.3608038	20	11 28.1	20.5
475900 2007 DA_{54}	16.1	X	225.33517	267.84474	123.47767	26.51295	0.2211818	0.17999728	3.1066483	20	5 29.4	21.7
475901 2007 DU_{59}	16.8	X	175.50393	150.60925	355.86712	4.40588	0.2449458	0.18465892	3.0541418	20	8 27.7	22.2
475902 2007 DG_{60}	16.1	X	165.93434	140.31476	321.47056	5.27737	0.1231534	0.17407415	3.1767268	20	6 25.9	21.2
475903 2007 DK_{63}	18.3	X	252.57456	84.35678	145.88632	25.00276	0.0515312	0.36441535	1.9412059	20	—	—
475904 2007 DN_{70}	18.1	X	294.36339	285.56935	147.49629	2.92116	0.1655605	0.26882871	2.3776739	20	11 3.3	20.1
475905 2007 DO_{76}	17.5	X	143.56883	34.37016	201.51898	1.77294	0.1394707	0.26517631	2.3994566	20	11 26.8	21.3
475906 2007 DQ_{80}	18.5	X	307.32885	313.27302	136.99777	3.21901	0.1447077	0.27598143	2.3364123	20	12 29.9	20.3
475907 2007 DS_{81}	17.3	X	214.70470	205.24601	335.56292	14.49279	0.1660512	0.27040747	2.3684102	20	11 24.6	20.9
475908 2007 DW_{82}	17.1	X	187.06413	295.89253	169.68782	11.45498	0.3048331	0.17931047	3.1145761	20	7 15.4	22.9
475909 2007 DP_{88}	17.1	X	198.03503	106.88686	356.52133	9.73117	0.2331434	0.18156527	3.0887365	20	7 26.9	22.5
475910 2007 DQ_{92}	18.9	X	50.81897	116.31208	339.91817	20.01524	0.0895875	0.37133857	1.9170025	20	—	—
475911 2007 DZ_{94}	15.8	X	146.30646	103.85918	11.81753	12.12348	0.1220991	0.17048624	3.2211417	20	6 23.3	21.0
475912 2007 DJ_{95}	17.5	X	356.77439	71.84758	6.18796	8.49172	0.1794984	0.28307668	2.2972063	20	—	—
475913 2007 DK_{104}	16.8	X	278.76329	97.47179	62.88773	22.75617	0.2362083	0.28204786	2.3027892	20	—	—
475914 2007 DR_{110}	15.7	X	230.60816	345.83212	349.12777	8.94505	0.0665903	0.15684792	3.4052595	20	3 29.9	20.9
475915 2007 DR_{116}	17.4	X	302.11202	110.07231	8.97773	23.70348	0.1984928	0.27922914	2.3182605	20	—	—
475916 2007 DO_{117}	15.8	X	203.40806	64.50010	17.09324	18.35778	0.1865766	0.17238781	3.1974101	20	7 6.2	21.4
475917 2007 EG_{1}	16.4	X	161.63363	320.45766	146.29582	12.76749	0.1278849	0.17596539	3.1539239	20	6 27.9	21.6
475918 2007 EG_{4}	16.3	X	252.62257	244.42480	148.40111	14.26765	0.1657013	0.18075399	3.0979717	20	6 24.3	21.2
475919 2007 EE_{15}	18.1	X	300.64535	235.34691	218.78423	0.51248	0.1480015	0.27514597	2.3411394	20	12 21.7	19.9
475920 2007 EG_{17}	17.3	X	247.09552	152.85745	350.40756	4.68978	0.1910442	0.27087791	2.3656673	20	11 15.3	20.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
475921 2007 EV_{29}	17.7	X	187.25574	173.70449	25.51246	5.49936	0.0584619	0.26711922	2.3878074	20	12 1.8	20.9
475922 2007 EZ_{41}	17.7	X	132.97074	36.26257	173.79577	1.58904	0.1260097	0.25616560	2.4553996	20	10 13.9	21.4
475923 2007 ET_{43}	18.3	X	150.56087	219.32694	308.22712	0.79320	0.1461034	0.25289771	2.4765064	20	9 6.3	22.2
475924 2007 EM_{45}	18.0	X	292.09433	122.16184	15.66530	2.41174	0.1312029	0.27615716	2.3354210	20	—	—
475925 2007 EB_{46}	18.1	X	152.57108	226.86420	357.00319	0.54502	0.1372971	0.26227075	2.4171456	20	11 19.6	21.7
475926 2007 EA_{51}	16.2	X	160.01294	136.14694	349.13482	14.18621	0.1698461	0.17479365	3.1680032	20	7 23.7	21.6
475927 2007 EH_{51}	17.2	X	231.40477	178.53424	321.25732	5.55609	0.1676783	0.26623641	2.3930829	20	10 21.8	20.4
475928 2007 EK_{65}	17.4	X	301.93082	81.21292	16.42411	8.84857	0.2084845	0.27463502	2.3440423	20	12 30.6	19.1
475929 2007 EN_{68}	16.3	X	174.02866	125.34496	354.47466	13.76610	0.1451717	0.17748899	3.1358488	20	7 29.9	21.6
475930 2007 EQ_{72}	18.1	X	293.07785	311.53048	163.28229	4.09341	0.1098568	0.27319785	2.3522557	20	—	—
475931 2007 EL_{80}	16.4	X	178.71456	113.12188	326.16705	12.57371	0.1740026	0.17485500	3.1672621	20	6 9.8	21.9
475932 2007 ET_{87}	17.9	X	333.72116	21.21547	182.03747	26.49263	0.0613912	0.37256589	1.9127901	20	1 19.2	20.6
475933 2007 EL_{92}	17.9	X	95.65884	127.33965	91.18178	2.53508	0.1258457	0.25353818	2.4723340	20	9 16.5	21.5
475934 2007 EC_{93}	16.5	X	207.25990	86.25475	327.67976	9.19581	0.0837293	0.17302918	3.1895040	20	6 8.5	21.5
475935 2007 ER_{112}	16.5	X	152.12661	295.00423	193.58408	13.07367	0.2510772	0.17165866	3.2064581	20	7 16.6	22.3
475936 2007 EO_{115}	17.9	X	60.66153	25.66926	23.13012	20.56595	0.0876818	0.35656757	1.9695854	20	—	—
475937 2007 EQ_{122}	18.0	X	224.52808	217.04842	348.09537	8.80781	0.2535116	0.34824747	2.0008325	20	—	—
475938 2007 EA_{128}	17.6	X	4.41185	239.40782	174.63424	4.06247	0.2033519	0.27962259	2.3160853	20	—	—
475939 2007 EB_{132}	17.8	X	326.07849	104.62280	1.96266	2.37679	0.1950552	0.28050699	2.3112145	20	—	—
475940 2007 EL_{148}	17.7	X	83.67223	129.71177	130.23504	4.82258	0.1072781	0.25579548	2.4577675	20	10 26.2	21.2
475941 2007 ES_{162}	17.7	X	328.03142	215.49331	174.97519	6.27591	0.1121043	0.26796631	2.3827725	20	11 8.1	20.0
475942 2007 EX_{170}	18.6	X	99.37530	87.98092	341.49772	17.33286	0.0933875	0.37657615	1.8991860	20	2 9.4	20.2
475943 2007 EV_{173}	16.2	X	188.70050	283.37480	190.63162	19.39450	0.2901362	0.17961781	3.1110223	20	7 24.5	22.1
475944 2007 EG_{179}	18.0	X	202.88196	219.14735	328.52063	1.70587	0.1583985	0.26506264	2.4001425	20	11 23.4	21.4
475945 2007 EN_{189}	17.9	X	230.64593	318.88538	188.46061	5.87178	0.0771369	0.26716176	2.3875539	20	11 17.9	20.8
475946 2007 EK_{192}	17.5	X	171.28099	167.18142	30.91850	2.52600	0.1585610	0.26253906	2.4154984	20	11 4.4	21.3
475947 2007 ER_{218}	16.2	X	141.94044	125.65932	8.59399	16.92732	0.1766642	0.17184380	3.2041547	20	7 19.5	21.7
475948 2007 EV_{219}	16.3	X	152.62689	287.28392	191.81931	9.05834	0.2402726	0.16969795	3.2311093	20	7 6.6	22.0
475949 2007 EA_{224}	17.7	X	36.24655	85.45082	158.71525	4.42213	0.1844234	0.23745196	2.5827689	20	8 7.8	20.6
475950 2007 FE_{1}	18.7	X	189.01028	193.22893	44.76140	9.84518	0.5476486	0.34359376	2.0188585	20	12 19.6	22.4
475951 2007 FG_{32}	16.1	X	128.25042	311.93289	200.39792	13.78318	0.1730980	0.16976365	3.2302756	20	7 20.9	21.5
475952 2007 FU_{35}	17.0	X	217.37434	205.95047	338.70723	23.89709	0.2342976	0.26849335	2.3796534	20	11 18.8	21.0
475953 2007 GR_{4}	16.9	X	4.19784	188.99782	63.43724	14.36855	0.3138085	0.23153612	2.6265774	20	6 21.0	18.3
475954 2007 GV_{13}	16.5	X	190.24469	76.40018	14.03181	15.23755	0.2074588	0.17373493	3.1808605	20	7 4.6	22.1
475955 2007 GL_{17}	17.6	X	41.69224	12.10648	227.82920	9.15200	0.1526803	0.23766261	2.5812425	20	8 2.3	20.8
475956 2007 GF_{19}	18.0	X	195.63591	64.71755	213.77944	20.58744	0.0738274	0.35268036	1.9840313	20	—	—
475957 2007 GD_{30}	18.0	X	203.34398	147.93555	12.41374	6.76931	0.0877504	0.26129052	2.4231871	20	10 26.2	21.4
475958 2007 GQ_{64}	17.8	X	169.90263	317.03523	246.77108	1.71259	0.1442638	0.25872260	2.4391947	20	11 10.5	21.4
475959 2007 GX_{68}	17.2	X	343.69922	341.55185	15.37873	6.27180	0.0792805	0.25581624	2.4576346	20	10 10.6	19.7
475960 2007 HP_{3}	16.1	X	329.99295	275.57146	32.37973	28.75259	0.3465312	0.23203142	2.6228383	20	5 16.7	18.6
475961 2007 HV_{16}	17.7	X	182.68368	207.51350	9.48843	7.88995	0.0395183	0.26742419	2.3859917	20	12 22.6	20.9
475962 2007 HR_{59}	17.8	X	80.64940	173.20391	43.50844	5.71773	0.1111490	0.24255636	2.5464058	20	8 25.7	21.3
475963 2007 HG_{63}	15.6	X	75.39758	111.89317	49.52710	10.64292	0.0926028	0.15666180	3.4079560	20	5 26.9	20.4
475964 2007 HW_{70}	17.4	X	25.95907	203.29848	48.14008	14.29673	0.1888318	0.23541437	2.5976506	20	8 7.3	20.4
475965 2007 HQ_{71}	17.8	X	37.95675	204.77251	63.00236	1.88887	0.0702965	0.24284967	2.5443550	20	8 28.7	21.0
475966 2007 JV	16.9	X	348.54329	228.15241	100.88132	17.95075	0.1705499	0.23919127	2.5702330	20	9 20.4	19.8
475967 2007 JF_{22}	16.2	X	147.09548	125.40857	47.72711	25.35597	0.5861589	0.18312711	3.0711494	20	9 24.7	23.0
475968 2007 JV_{28}	17.2	X	357.57114	217.65080	56.57221	14.47339	0.2458537	0.23091689	2.6312710	20	7 6.7	19.4
475969 2007 JC_{36}	17.4	X	23.13580	182.60485	83.50289	9.76669	0.2251741	0.23551971	2.5968760	20	8 28.9	20.2
475970 2007 JM_{36}	17.2	X	24.18329	305.42552	357.96138	3.97029	0.2251620	0.24150495	2.5537911	20	10 18.9	20.0
475971 2007 KR_{1}	17.3	X	61.48006	86.18248	176.08257	12.06508	0.2605473	0.24186918	2.5512266	20	10 20.9	21.1
475972 2007 LP_{22}	17.5	X	52.25655	12.13749	217.96850	6.84829	0.1265790	0.23581267	2.5947247	20	8 1.4	20.8
475973 2007 LZ_{27}	17.9	X	351.37449	121.28345	165.79293	12.71757	0.2173903	0.23104654	2.6302866	20	7 8.9	20.4
475974 2007 NM_{2}	17.1	X	340.93585	54.26701	268.31589	10.98067	0.2733834	0.22817972	2.6522718	20	8 4.4	19.1
475975 2007 NK_{3}	16.2	X	338.92763	21.65989	305.67025	12.85174	0.2560867	0.22710709	2.6606163	20	8 9.9	18.0
475976 2007 NL_{6}	16.9	X	314.28823	335.63921	358.54010	13.26758	0.2666519	0.22453601	2.6808883	20	6 16.5	20.0
475977 2007 OO_{6}	16.9	X	351.01890	188.86084	119.89845	14.72121	0.2528537	0.22915138	2.6447689	20	8 19.4	18.9
475978 2007 OE_{11}	17.4	X	282.98617	27.22064	14.21008	6.78665	0.3160587	0.21581316	2.7526486	20	7 23.6	21.0
475979 2007 PM_{4}	17.4	X	340.46409	256.70753	55.95152	27.98457	0.4031238	0.22506334	2.6766991	20	6 30.4	19.2
475980 2007 PG_{16}	16.9	X	344.96543	195.36593	145.00235	14.34082	0.2670438	0.22822023	2.6519579	20	9 28.2	19.0
475981 2007 PR_{18}	17.4	X	311.22309	213.42754	152.35057	8.41783	0.3857922	0.22430991	2.6826895	20	7 5.5	20.0
475982 2007 PN_{19}	16.9	X	353.19216	174.29654	140.91564	8.72864	0.2183451	0.22921330	2.6442926	20	9 1.5	19.0
475983 2007 PN_{21}	16.2	X	327.25973	337.80235	330.67351	12.61702	0.1685058	0.22005213	2.7171837	20	6 21.1	19.3
475984 2007 PO_{23}	16.4	X	336.44198	63.51372	285.43042	11.50222	0.2871516	0.22884401	2.6471366	20	9 3.4	18.4
475985 2007 PR_{27}	17.3	X	289.01469	129.84251	237.81292	5.47726	0.0488978	0.22250087	2.6972109	20	7 25.6	20.9
475986 2007 PZ_{33}	16.8	X	307.35192	21.97004	340.32658	7.34571	0.2479522	0.22288044	2.6941477	20	7 21.3	19.5
475987 2007 PC_{36}	16.7	X	305.13251	233.10913	155.59318	9.64108	0.3779275	0.22496537	2.6774761	20	7 28.9	19.4
475988 2007 PB_{37}	16.8	X	20.21380	350.98554	305.88556	13.84822	0.2430274	0.23208784	2.6224132	20	9 26.3	20.0
475989 2007 PZ_{42}	16.8	X	338.44570	193.66854	145.64694	13.41085	0.1801659	0.22748641	2.6576579	20	9 2.4	19.1
475990 2007 PD_{43}	17.0	X	4.07754	336.07939	324.08160	12.84507	0.2525581	0.22848014	2.6499464	20	9 3.5	19.2
475991 2007 PF_{47}	17.6	X	305.94598	246.22002	153.92747	13.42825	0.2874639	0.22714797	2.6602971	20	9 8.4	19.7
475992 2007 QU_{8}	16.8	X	307.72599	176.05134	160.86068	10.22063	0.2285623	0.22094932	2.7098231	20	6 16.3	20.0
475993 2007 RF	16.9	X	232.31291	134.06732	337.94074	16.86127	0.1012434	0.23422516	2.6064357	20	9 18.5	20.6
475994 2007 RS_{3}	17.2	X	316.81467	102.67360	233.20266	11.22120	0.2923285	0.22238278	2.6981657	20	6 19.8	20.0
475995 2007 RR_{8}	17.3	X	289.18602	183.07785	178.41728	3.62620	0.2077626	0.21786668	2.7353244	20	6 23.4	20.7
475996 2007 RJ_{21}	17.2	X	336.94343	26.75549	327.93118	4.75892	0.2132530	0.22930641	2.6435767	20	9 20.7	19.3
475997 2007 RM_{25}	17.8	X	304.46346	260.08700	160.91148	4.00572	0.1407145	0.23581280	2.5947238	20	10 28.8	20.4
475998 2007 RY_{34}	17.3	X	295.70992	232.19347	138.13095	3.02063	0.3045056	0.22148155	2.7054801	20	6 29.4	20.6
475999 2007 RR_{46}	16.4	X	15.78523	279.36470	343.90273	12.42587	0.1056532	0.21758710	2.7376670	20	7 21.8	19.7
476000 2007 RY_{47}	17.5	X	53.87709	85.67739	186.20150	11.20611	0.1574718	0.22747951	2.6577117	20	10 6.6	21.1