Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
472001 2013 WL_{41}	18.1	X	31.85386	20.53735	52.95897	2.95817	0.1921564	0.27175873	2.3605528	21	—	—
472002 2013 WA_{42}	17.8	X	63.38871	133.33027	258.85755	3.27986	0.1048423	0.27468486	2.3437587	21	—	—
472003 2013 WO_{57}	17.7	X	86.52767	283.47240	84.41135	7.59470	0.1237864	0.27551787	2.3390322	21	—	—
472004 2013 WV_{58}	18.3	X	78.89081	265.82889	127.57293	2.14245	0.2064777	0.28023660	2.3127010	21	—	—
472005 2013 WE_{59}	16.5	X	275.34549	310.75621	68.65374	11.50741	0.1744988	0.21785804	2.7353967	21	6 23.7	20.4
472006 2013 WB_{62}	17.9	X	18.47169	10.18588	77.33392	3.62867	0.1415187	0.27265188	2.3553948	21	—	—
472007 2013 WA_{66}	17.7	X	113.12335	273.01794	94.47964	7.66878	0.2341341	0.28576878	2.2827562	21	—	—
472008 2013 WR_{71}	18.0	X	12.64031	38.59323	48.97578	3.32060	0.1380209	0.26946671	2.3739194	21	—	—
472009 2013 WO_{80}	17.0	X	304.27583	347.34055	88.12973	6.79691	0.2142386	0.23389966	2.6088533	21	10 26.8	19.5
472010 2013 WK_{84}	18.1	X	112.17237	307.30751	92.19212	6.14935	0.1385395	0.29105397	2.2550371	21	1 18.8	20.4
472011 2013 WA_{90}	17.8	X	97.10203	128.18057	259.14516	6.73944	0.1336618	0.28513008	2.2861639	21	—	—
472012 2013 WC_{105}	16.9	X	237.44385	92.62912	79.38701	14.54393	0.1482919	0.23843357	2.5756753	21	12 1.2	20.5
472013 2013 WX_{105}	17.4	X	61.00224	188.99701	214.19988	5.89576	0.2049506	0.27526451	2.3404672	21	—	—
472014 2013 XT	16.3	X	239.08524	27.09866	75.80316	22.78971	0.0262423	0.22740655	2.6582801	21	10 4.2	20.5
472015 2013 XW	17.1	X	311.20912	156.12971	233.93082	7.86346	0.1370538	0.23067917	2.6330784	21	9 5.1	20.1
472016 2013 XM_{5}	18.1	X	151.06171	354.56301	344.59270	6.57062	0.1352939	0.28974867	2.2618046	21	—	—
472017 2013 XR_{7}	17.4	X	14.96823	67.37021	358.93686	9.54340	0.1721593	0.25928038	2.4356953	21	—	—
472018 2013 XD_{13}	16.9	X	70.30276	246.54955	296.86032	2.03329	0.1754363	0.18644539	3.0346011	21	6 22.9	20.9
472019 2013 XW_{17}	17.5	X	333.17778	304.55169	114.12545	14.10605	0.1582804	0.24056439	2.5604433	21	12 7.5	20.1
472020 2013 XF_{18}	16.8	X	326.30934	185.28282	256.67776	16.52681	0.1560938	0.24504252	2.5291529	21	12 25.2	19.2
472021 2013 XH_{18}	16.5	X	219.45948	313.54094	66.20920	11.26402	0.1344920	0.19379120	2.9574223	21	5 3.4	21.2
472022 2013 XQ_{19}	16.2	X	297.27612	326.75672	100.69553	22.76999	0.0241558	0.22547200	2.6734638	21	11 1.6	20.2
472023 2013 XU_{19}	16.7	X	200.55095	285.52286	264.75818	13.60375	0.0780988	0.24150640	2.5537808	21	11 18.6	20.5
472024 2013 XQ_{25}	16.9	X	295.38204	195.93803	258.98861	13.24939	0.1258828	0.24132866	2.5550346	21	11 15.1	19.7
472025 2013 YW_{4}	17.0	X	71.08735	250.04231	101.96035	9.07354	0.1310547	0.25195753	2.4826633	21	—	—
472026 2013 YH_{5}	17.4	X	281.28990	5.31367	110.37352	7.42650	0.2062992	0.23605359	2.5929590	21	11 11.3	20.4
472027 2013 YW_{8}	17.9	X	71.05571	264.55450	121.80526	4.34644	0.2084188	0.26682198	2.3895804	21	—	—
472028 2013 YB_{11}	16.5	X	346.86374	296.77869	123.19490	29.81368	0.2298210	0.24326897	2.5414305	21	—	—
472029 2013 YT_{12}	16.4	X	18.94206	127.82335	75.10083	10.24851	0.0709531	0.18103931	3.0947159	21	4 22.9	20.4
472030 2013 YQ_{13}	16.6	X	254.97392	269.23831	112.74425	10.30829	0.0752197	0.20328261	2.8646346	21	6 17.2	20.7
472031 2013 YN_{17}	18.1	X	47.86398	216.49175	243.43485	1.37980	0.1691433	0.27571917	2.3378936	21	—	—
472032 2013 YX_{19}	16.7	X	349.98426	324.34331	78.70625	7.31412	0.1457996	0.23890222	2.5723057	21	12 12.9	19.1
472033 2013 YL_{23}	16.7	X	330.84685	283.98898	66.99370	6.32697	0.1125385	0.22585245	2.6704606	21	8 24.2	19.7
472034 2013 YR_{28}	17.3	X	227.82026	54.54644	103.29955	8.98801	0.0632097	0.23082322	2.6319828	21	11 13.9	21.0
472035 2013 YL_{29}	18.2	X	86.76993	133.37422	253.39498	1.52885	0.2181409	0.28021993	2.3127927	21	—	—
472036 2013 YB_{30}	16.3	X	23.65087	73.03857	285.23491	13.62092	0.1288533	0.23312782	2.6146084	21	12 2.6	19.6
472037 2013 YN_{31}	16.6	X	354.88501	73.85650	275.44461	10.09404	0.0633965	0.21733214	2.7398076	21	9 21.5	20.3
472038 2013 YQ_{31}	16.3	X	87.24201	12.71163	281.73802	13.32733	0.1585134	0.22866683	2.6485038	21	12 1.7	20.5
472039 2013 YO_{34}	16.4	X	216.99178	261.21456	271.74806	11.40983	0.1119336	0.22856304	2.6493055	21	11 8.6	20.4
472040 2013 YS_{37}	16.4	X	235.12527	243.52778	256.77644	10.46249	0.1476352	0.22567334	2.6718734	21	10 12.6	20.5
472041 2013 YQ_{39}	16.9	X	172.85304	32.95645	128.44455	4.68217	0.0361802	0.20926078	2.8098135	21	9 12.3	21.0
472042 2013 YS_{39}	16.6	X	248.14417	287.50024	134.69062	2.88204	0.0510837	0.20331442	2.8643358	21	8 3.1	20.7
472043 2013 YZ_{39}	17.5	X	323.67019	279.57501	157.60599	4.01139	0.1338138	0.23698509	2.5861598	21	12 11.6	20.2
472044 2013 YD_{40}	16.3	X	135.02383	2.73522	131.84066	13.36692	0.0973907	0.18361825	3.0656706	21	6 27.8	21.0
472045 2013 YS_{41}	17.1	X	329.13310	265.07640	93.43357	14.15877	0.2150037	0.22910312	2.6451403	21	8 25.9	19.7
472046 2013 YY_{42}	16.5	X	278.07903	356.73378	93.28692	15.62599	0.0832195	0.22636736	2.6664095	21	10 24.7	20.2
472047 2013 YL_{43}	17.4	X	322.34713	99.93804	298.96259	5.68924	0.1046061	0.22591294	2.6699839	21	10 10.6	20.6
472048 2013 YD_{46}	18.1	X	86.05655	54.19794	3.49347	3.75597	0.1711167	0.28199728	2.3030645	21	1 8.3	20.0
472049 2013 YS_{46}	16.0	X	11.89177	179.85489	82.40746	11.45606	0.0084150	0.19264642	2.9691269	21	6 23.5	20.1
472050 2013 YE_{49}	16.7	X	311.27438	345.72422	97.98663	14.46958	0.2027930	0.23675212	2.5878561	21	11 26.4	19.1
472051 2013 YY_{49}	16.5	X	38.50890	56.58863	288.83742	14.01518	0.1382410	0.23388861	2.6089355	21	12 8.6	20.0
472052 2013 YE_{50}	17.7	X	73.26354	250.48666	135.36857	4.85382	0.1402695	0.26223291	2.4173781	21	—	—
472053 2013 YJ_{52}	18.0	X	28.22844	132.76856	293.40141	5.46436	0.0806003	0.26798580	2.3826570	21	—	—
472054 2013 YA_{55}	16.9	X	263.67080	12.38976	115.26071	12.98328	0.1379004	0.23347094	2.6120460	21	11 12.9	20.4
472055 2013 YK_{56}	16.9	X	183.22651	220.77044	313.60258	8.27725	0.0341832	0.22409990	2.6843652	21	10 7.1	20.8
472056 2013 YM_{58}	16.4	X	205.24731	61.68007	110.65768	15.75724	0.0316019	0.22942289	2.6426819	21	11 11.9	20.4
472057 2013 YE_{61}	17.0	X	251.30574	144.75647	317.25017	8.17497	0.1112280	0.22045708	2.7138552	21	9 17.6	20.8
472058 2013 YS_{62}	17.7	X	49.44160	273.77978	134.65536	3.63398	0.1736901	0.26342894	2.4100556	21	—	—
472059 2013 YE_{65}	17.7	X	72.69398	28.73409	36.63171	5.04476	0.2557859	0.28052449	2.3111184	21	1 1.9	19.0
472060 2013 YX_{68}	16.2	X	148.31341	175.25252	308.07044	9.45112	0.1504901	0.18398521	3.0615929	21	7 1.5	21.1
472061 2013 YB_{69}	17.5	X	76.65876	106.95275	300.98921	7.53859	0.2319340	0.27158419	2.3615640	21	—	—
472062 2013 YO_{69}	17.6	X	330.78333	118.54899	327.42180	3.60515	0.1335748	0.24112629	2.5564640	21	—	—
472063 2013 YV_{69}	16.2	X	328.08576	180.38332	125.76314	17.15246	0.0663511	0.18364837	3.0653354	21	6 19.5	20.4
472064 2013 YW_{73}	16.9	X	334.37282	312.35717	119.30108	14.26636	0.1801538	0.24119967	2.5559454	21	12 28.4	19.3
472065 2013 YY_{74}	17.3	X	79.35340	302.05429	100.88847	6.15118	0.1302634	0.26878205	2.3779490	21	—	—
472066 2013 YZ_{80}	16.1	X	44.00351	167.56692	107.71844	16.43841	0.1181768	0.20536803	2.8452089	21	9 14.3	20.1
472067 2013 YB_{83}	17.8	X	356.83771	261.79716	144.09406	4.35547	0.1308105	0.24187487	2.5511865	21	12 27.9	20.6
472068 2013 YQ_{83}	18.1	X	12.13770	198.77636	235.40379	3.81838	0.2027436	0.25813561	2.4428911	21	—	—
472069 2013 YM_{84}	17.3	X	98.00588	181.33331	160.68942	4.37300	0.2081586	0.25574022	2.4581216	21	—	—
472070 2013 YB_{87}	16.8	X	307.19444	21.83448	82.12783	6.92621	0.1336139	0.24042223	2.5614525	21	12 19.4	19.4
472071 2013 YW_{89}	16.3	X	1.60468	242.02401	111.89428	6.98943	0.0506485	0.21751649	2.7382595	21	10 16.9	19.8
472072 2013 YJ_{90}	16.8	X	333.97334	111.34801	303.48290	14.29005	0.1299534	0.23187664	2.6240054	21	11 24.8	19.9
472073 2013 YN_{90}	17.0	X	266.03280	309.96700	134.71030	9.83920	0.1382442	0.21617569	2.7495702	21	9 15.5	20.7
472074 2013 YR_{92}	17.3	X	303.84004	175.85325	272.57728	13.52856	0.0907423	0.24407164	2.5358555	21	11 24.5	20.2
472075 2013 YS_{93}	16.2	X	34.34264	269.97321	304.58885	16.09527	0.1094765	0.17568162	3.1573192	21	5 29.5	20.4
472076 2013 YL_{95}	16.7	X	240.38921	315.79954	116.76470	7.80634	0.0496432	0.20345788	2.8629891	21	8 7.9	20.7
472077 2013 YS_{96}	17.8	X	353.57999	220.04397	188.06584	4.43805	0.1474256	0.23987759	2.5653282	21	12 26.8	20.5
472078 2013 YM_{99}	17.1	X	177.10743	174.08690	79.80598	6.05199	0.0899421	0.24532023	2.5272438	21	—	—
472079 2013 YZ_{102}	17.6	X	349.46805	181.26463	257.14702	5.11561	0.1174363	0.25750573	2.4468732	21	—	—
472080 2013 YF_{107}	17.4	X	209.17444	12.23520	127.83386	4.66671	0.0550666	0.21785942	2.7353852	21	9 28.1	21.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
472081 2013 YT_{110}	17.1	X	244.68539	115.92351	38.81039	6.96005	0.1199720	0.24297154	2.5435041	21	11 21.2	20.5
472082 2013 YR_{114}	16.8	X	350.40071	246.25038	116.21486	14.96512	0.1355162	0.22105818	2.7089334	21	10 20.3	20.1
472083 2013 YP_{115}	17.2	X	294.81408	337.79606	115.83133	2.97924	0.1439658	0.23261363	2.6184600	21	11 10.6	20.1
472084 2013 YK_{117}	17.0	X	274.68798	356.19743	97.01941	4.93116	0.1789588	0.22379860	2.6867740	21	10 3.5	20.3
472085 2013 YG_{125}	17.2	X	162.35389	254.08350	332.51721	3.46443	0.0260174	0.22644163	2.6658264	21	11 21.5	21.0
472086 2013 YM_{128}	18.1	X	78.88516	303.73603	119.54629	5.99882	0.2430763	0.28000173	2.3139941	21	1 12.3	19.6
472087 2013 YK_{129}	17.0	X	274.04532	158.60729	305.94903	12.43094	0.1128944	0.23229744	2.6208355	21	10 19.8	20.6
472088 2013 YQ_{129}	17.1	X	258.22625	195.61030	286.31518	6.01694	0.1712646	0.22819734	2.6521352	21	10 14.7	20.7
472089 2013 YP_{143}	17.9	X	1.80998	28.96897	72.66940	4.57658	0.0246614	0.26836299	2.3804239	21	—	—
472090 2013 YG_{144}	17.7	X	248.06813	239.08288	345.41600	6.68795	0.0543224	0.26215128	2.4178799	21	—	—
472091 2013 YO_{144}	17.6	X	340.13826	39.53506	4.83984	5.69752	0.0608736	0.23549543	2.5970545	21	11 19.8	20.8
472092 2013 YA_{148}	17.0	X	287.00354	268.26984	217.24722	3.84556	0.1933031	0.23939494	2.5687750	21	12 5.8	19.5
472093 2013 YU_{148}	17.1	X	234.07282	237.52337	262.26838	8.43119	0.1507517	0.23635213	2.5907750	21	10 11.9	21.1
472094 2013 YD_{149}	17.0	X	275.25411	8.19982	109.16677	7.27539	0.1546432	0.23098099	2.6307842	21	11 10.8	20.3
472095 2014 AB_{2}	16.2	X	204.78670	284.15686	92.94494	8.84509	0.2219602	0.17958476	3.1114040	21	4 17.6	21.6
472096 2014 AU_{7}	16.7	X	336.68592	276.81075	98.51453	7.20579	0.0395801	0.21943382	2.7222855	21	10 9.4	20.2
472097 2014 AD_{8}	16.3	X	226.96087	260.60365	109.43303	16.90146	0.1112074	0.17989473	3.1078288	21	5 5.8	21.4
472098 2014 AM_{21}	17.4	X	26.38260	54.65439	321.72647	10.73450	0.1299611	0.24368316	2.5385499	21	—	—
472099 2014 AB_{22}	17.2	X	353.08520	101.82326	300.14364	10.54069	0.0671515	0.23715080	2.5849550	21	12 8.2	20.4
472100 2014 AF_{22}	17.3	X	109.96018	135.78217	90.81990	5.11650	0.0437143	0.21035660	2.8000468	21	9 22.5	21.3
472101 2014 AF_{27}	16.6	X	351.46978	134.92660	286.50241	15.94854	0.1944433	0.24366893	2.5386488	21	—	—
472102 2014 AU_{29}	15.2	X	88.81873	221.37036	304.74589	26.19342	0.1425099	0.17510661	3.1642274	21	6 23.9	20.0
472103 2014 AV_{29}	17.4	X	51.00233	285.81919	131.86718	5.86166	0.1803104	0.26452611	2.4033869	21	—	—
472104 2014 AA_{31}	16.7	X	225.71247	56.76102	153.38022	14.92525	0.0475267	0.24535816	2.5269833	21	—	—
472105 2014 AC_{36}	16.8	X	281.07953	257.86515	121.44087	5.30134	0.0846047	0.21205314	2.7850922	21	7 15.4	20.3
472106 2014 AP_{42}	16.7	X	250.92696	187.62230	304.47279	12.92973	0.1179828	0.22798382	2.6537909	21	10 23.1	20.6
472107 2014 AT_{42}	16.9	X	334.65695	245.59171	135.39736	7.72263	0.0331723	0.22090607	2.7101767	21	10 13.7	20.4
472108 2014 AE_{43}	16.0	X	45.12919	274.20975	279.40018	23.96399	0.2295515	0.17016048	3.2252515	21	6 6.8	19.9
472109 2014 AS_{52}	16.9	X	45.02357	260.64842	121.14513	15.07776	0.1356175	0.25338095	2.4733567	21	—	—
472110 2014 AB_{53}	16.8	X	301.22416	108.37997	337.57535	12.46300	0.2515282	0.23465357	2.6032624	21	10 20.2	19.5
472111 2014 AJ_{54}	16.9	X	256.18662	221.59129	291.17895	14.10321	0.0319335	0.24073419	2.5592391	21	12 18.1	20.3
472112 2014 BK_{2}	17.2	X	6.68911	239.78771	115.77510	7.07177	0.0597376	0.22232259	2.6986526	21	10 27.7	20.6
472113 2014 BU_{3}	17.0	X	272.29832	1.39511	118.00079	13.17779	0.1338733	0.23369432	2.6103813	21	11 15.1	20.4
472114 2014 BJ_{4}	17.3	X	77.39936	126.28930	312.43308	4.17123	0.0790233	0.28229123	2.3014655	21	1 12.4	19.6
472115 2014 BB_{8}	16.1	X	289.61877	16.95270	323.42423	10.05125	0.0535952	0.18253593	3.0777770	21	6 9.9	20.5
472116 2014 BH_{10}	15.9	X	52.35625	176.30062	112.52887	22.69141	0.1629546	0.21293042	2.7774371	21	10 26.4	20.2
472117 2014 BK_{13}	17.3	X	68.58693	62.97975	317.98719	5.23973	0.1619218	0.25527713	2.4610935	21	—	—
472118 2014 BW_{13}	17.2	X	289.49309	101.00737	346.87716	6.18641	0.0823646	0.22530593	2.6747774	21	10 27.8	20.6
472119 2014 BP_{19}	17.9	X	98.46578	87.65652	308.29542	2.31451	0.1759665	0.27273432	2.3549202	21	1 2.2	20.2
472120 2014 BR_{19}	16.5	X	339.10758	1.81687	308.09708	9.67419	0.0467689	0.18870549	3.0103225	21	7 11.4	20.5
472121 2014 BD_{23}	16.6	X	161.18066	32.62716	164.79309	5.36026	0.0964636	0.21043528	2.7993488	21	10 13.9	20.8
472122 2014 BH_{23}	17.2	X	82.76441	271.42370	147.76455	9.61649	0.1953105	0.27071944	2.3665904	21	1 10.0	19.3
472123 2014 BO_{23}	17.7	X	63.97294	34.95028	338.77134	1.63686	0.2040472	0.25143676	2.4860901	21	—	—
472124 2014 BM_{24}	16.0	X	293.49064	71.57570	274.72943	8.53585	0.0896833	0.18394066	3.0620872	21	6 18.1	20.0
472125 2014 BV_{24}	16.7	X	128.68146	335.59005	188.12459	8.84027	0.0670218	0.18628412	3.0363523	21	7 22.4	21.3
472126 2014 BY_{28}	17.0	X	285.12047	136.47274	292.42244	8.09070	0.0675976	0.22089210	2.7102911	21	9 24.9	20.6
472127 2014 BL_{30}	16.9	X	226.30152	271.72381	205.47667	3.36827	0.1628185	0.20989903	2.8041147	21	9 3.6	21.1
472128 2014 BA_{32}	16.5	X	262.52730	157.16394	302.37423	12.71376	0.1540466	0.21910561	2.7250034	21	9 18.6	20.5
472129 2014 BM_{34}	15.8	X	26.40692	277.82460	327.80542	24.43232	0.1951934	0.17291178	3.1909475	21	7 14.8	19.7
472130 2014 BK_{37}	15.6	X	226.04109	233.15654	153.55772	28.27440	0.1818978	0.17799940	3.1298512	21	5 20.4	21.2
472131 2014 BK_{40}	17.1	X	184.31298	59.65980	60.25364	2.61082	0.0540123	0.19451809	2.9500501	21	8 1.6	21.5
472132 2014 BE_{43}	16.3	X	307.67428	136.67180	327.25459	27.15860	0.0958135	0.23605235	2.5929680	21	12 25.9	19.9
472133 2014 BM_{44}	17.3	X	309.19484	109.36941	324.09387	2.56912	0.0969989	0.22648373	2.6654961	21	11 8.2	20.4
472134 2014 BQ_{53}	16.2	X	156.07983	172.45659	313.84678	10.17173	0.0667487	0.18868010	3.0105926	21	7 9.2	20.7
472135 2014 BW_{53}	17.0	X	39.86216	93.80308	158.39211	1.14288	0.0149202	0.19117710	2.9843206	21	7 18.3	21.0
472136 2014 BG_{54}	16.9	X	29.58690	233.58404	130.92263	15.87580	0.1464154	0.23430734	2.6058262	21	12 23.8	20.4
472137 2014 BY_{57}	15.3	X	113.61689	190.54904	318.23082	22.55400	0.1030507	0.17548489	3.1596785	21	6 25.5	20.3
472138 2014 BJ_{61}	16.3	X	254.02831	157.25773	334.10562	12.98105	0.1119077	0.22450270	2.6811534	21	10 26.7	20.2
472139 2014 BW_{63}	17.4	X	346.05229	286.10851	195.53505	1.91234	0.1424723	0.25406364	2.4689239	21	—	—
472140 2014 BJ_{64}	17.0	X	258.68630	251.71926	214.27127	11.31212	0.2298518	0.22258593	2.6965237	21	9 15.1	20.9
472141 2014 BM_{64}	16.7	X	264.94519	140.71421	347.76859	12.16104	0.0716326	0.22561911	2.6723015	21	11 14.6	20.4
472142 2014 BN_{64}	15.5	X	91.91636	264.33004	263.10291	14.21385	0.1906245	0.17237004	3.1976299	21	7 1.0	20.2
472143 2014 CK_{2}	17.2	X	274.68261	79.67814	343.37991	4.43979	0.1539140	0.21242060	2.7818794	21	8 24.5	20.7
472144 2014 CH_{3}	17.0	X	326.89244	282.32908	139.51563	14.22104	0.1569326	0.23291615	2.6161922	21	11 28.5	19.9
472145 2014 CG_{6}	15.6	X	32.32159	266.90370	332.80378	15.58444	0.2001538	0.17456259	3.1707981	21	7 15.2	19.4
472146 2014 CD_{8}	16.5	X	156.00039	214.48002	276.37240	1.37949	0.0542681	0.18442004	3.0567786	21	7 12.9	21.0
472147 2014 CD_{10}	16.0	X	320.57988	200.84468	104.06531	16.98792	0.1394643	0.17856601	3.1232268	21	5 30.6	20.1
472148 2014 CN_{17}	16.7	X	281.88664	349.87839	147.48650	14.11426	0.1136514	0.23413817	2.6070813	21	12 22.9	20.0
472149 2014 CK_{20}	15.6	X	49.60101	280.32791	307.10162	14.88648	0.2125662	0.17459577	3.1703964	21	7 26.9	19.4
472150 2014 CL_{20}	16.6	X	331.48056	79.61865	336.54101	13.52283	0.0946267	0.23054773	2.6340791	21	11 18.8	20.0
472151 2014 CO_{20}	16.1	X	329.83232	107.06174	331.57142	21.65610	0.0683632	0.23508736	2.6000589	21	12 24.8	19.7
472152 2014 DA_{1}	16.2	X	96.38453	222.66708	310.91759	3.89001	0.1342138	0.17656410	3.1467901	21	7 7.7	20.7
472153 2014 DX_{5}	17.0	X	292.85271	330.08747	140.45055	5.54374	0.1833439	0.23000186	2.6382451	21	11 25.5	19.7
472154 2014 DW_{6}	17.7	X	322.31310	98.03270	345.45048	8.98276	0.1817483	0.23591683	2.5939610	21	12 17.2	20.2
472155 2014 DM_{11}	17.6	X	325.51051	37.21426	38.93712	4.23154	0.1888005	0.23465124	2.6032796	21	12 12.8	19.8
472156 2014 DP_{11}	16.1	X	261.80876	189.26699	288.60091	12.30301	0.0517837	0.21962390	2.7207146	21	10 29.3	20.0
472157 2014 DE_{14}	16.0	X	128.92947	118.51183	55.13705	10.88737	0.0382427	0.18512927	3.0489665	21	8 7.4	20.6
472158 2014 DB_{15}	16.8	X	37.76085	116.64810	144.84672	12.89463	0.0268955	0.19238384	2.9718279	21	7 28.5	20.8
472159 2014 DQ_{18}	17.0	X	330.97411	128.02297	308.33037	3.91069	0.1861473	0.23669887	2.5882443	21	12 26.5	19.2
472160 2014 DK_{19}	16.9	X	252.44996	201.52238	302.76178	4.12554	0.0733106	0.22727630	2.6592956	21	11 21.9	20.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
472161 2014 DC_{23}	17.0	X	348.44334	142.28540	293.10738	4.91853	0.2368560	0.24193714	2.5507488	21	—	—
472162 2014 DQ_{23}	15.8	X	43.74404	270.83867	323.51617	6.93863	0.1054808	0.17393726	3.1783933	21	7 11.8	19.9
472163 2014 DP_{24}	15.6	X	10.55426	270.42765	341.03503	14.97475	0.0810387	0.17194843	3.2028547	21	6 8.1	20.0
472164 2014 DU_{25}	17.4	X	322.48141	70.64876	7.20203	13.02144	0.1993256	0.23005394	2.6378470	21	12 4.0	20.0
472165 2014 DW_{26}	15.9	X	304.27184	168.98339	155.07285	13.50250	0.0626812	0.17732340	3.1378006	21	6 9.8	20.4
472166 2014 DJ_{29}	16.8	X	357.31711	67.73238	328.73617	12.94355	0.1651996	0.23263795	2.6182775	21	12 17.8	19.9
472167 2014 DA_{38}	16.3	X	256.37591	30.02548	354.54945	10.31353	0.1094577	0.17676405	3.1444166	21	6 17.3	21.1
472168 2014 DF_{38}	16.2	X	226.98503	91.75134	350.54738	9.49075	0.0353766	0.18563540	3.0434221	21	8 6.9	20.6
472169 2014 DK_{40}	16.7	X	93.12766	162.12200	118.92194	8.89952	0.0605172	0.22011189	2.7166919	21	11 13.8	20.7
472170 2014 DN_{42}	17.1	X	239.08418	104.98385	56.29981	4.14261	0.0424496	0.22338696	2.6900736	21	11 30.9	20.8
472171 2014 DV_{42}	16.3	X	88.46946	129.36617	135.69852	3.32292	0.0556301	0.19872481	2.9082695	21	10 14.1	20.3
472172 2014 DM_{50}	17.1	X	3.55641	8.75385	33.17521	6.27846	0.0526216	0.22343349	2.6897002	21	12 18.6	20.6
472173 2014 DC_{55}	16.5	X	206.58656	69.08219	12.21759	9.76862	0.1141419	0.18131209	3.0916113	21	7 6.0	21.5
472174 2014 DG_{63}	15.7	X	189.71993	320.10955	155.56829	8.03083	0.1423228	0.18695725	3.0290598	21	7 28.9	20.6
472175 2014 DC_{64}	16.6	X	174.50400	229.62129	8.58602	13.05158	0.1281798	0.21798568	2.7343288	21	12 12.0	21.1
472176 2014 DL_{83}	16.7	X	132.42945	95.79970	54.54885	2.27077	0.0942911	0.17862032	3.1225937	21	7 14.4	21.5
472177 2014 DJ_{85}	17.2	X	12.52352	101.03580	340.94910	3.35675	0.1378745	0.24720848	2.5143581	21	—	—
472178 2014 DD_{91}	16.6	X	249.17514	63.11471	358.10745	1.47953	0.0948876	0.19336686	2.9617475	21	7 28.3	20.8
472179 2014 DK_{91}	16.6	X	69.97010	210.20719	342.59089	18.14210	0.0721697	0.17039595	3.2222794	21	6 20.1	21.4
472180 2014 DT_{97}	15.4	X	51.05932	259.01152	345.69775	17.48089	0.0952428	0.17856211	3.1232723	21	8 8.6	19.7
472181 2014 DC_{103}	15.8	X	356.56522	309.49513	327.18682	25.95711	0.2151143	0.17214105	3.2004650	21	6 22.0	19.7
472182 2014 DB_{104}	16.0	X	183.73013	133.64495	345.67649	14.65292	0.1318591	0.18916078	3.0054902	21	8 2.2	20.9
472183 2014 DX_{104}	17.1	X	242.53874	328.80070	152.65302	5.42324	0.1136475	0.21216555	2.7841084	21	10 5.7	21.0
472184 2014 DF_{105}	17.0	X	47.72874	212.27511	161.16935	4.74641	0.1626056	0.23380696	2.6095428	21	—	—
472185 2014 DB_{106}	17.0	X	30.99455	30.11204	349.19581	5.82284	0.0416993	0.22620761	2.6676647	21	12 26.5	20.6
472186 2014 DW_{108}	16.9	X	68.85024	147.66907	164.19193	6.66754	0.0321910	0.21316250	2.7754209	21	11 17.0	20.8
472187 2014 DT_{111}	17.5	X	270.65652	15.07080	104.65619	3.40980	0.1584965	0.22545764	2.6735773	21	11 4.1	20.7
472188 2014 DG_{116}	16.8	X	288.65037	48.17065	14.62698	2.01623	0.0509868	0.20217061	2.8751292	21	9 26.8	20.5
472189 2014 DU_{123}	17.5	X	297.82586	304.42899	165.74707	3.90796	0.1698342	0.22888879	2.6467913	21	12 4.9	20.2
472190 2014 DR_{128}	17.4	X	315.64432	328.09377	89.35717	0.70689	0.0604645	0.21457825	2.7631996	21	10 29.3	20.8
472191 2014 DW_{128}	17.3	X	335.56573	313.05844	135.39827	3.27485	0.1093245	0.23549128	2.5970850	21	—	—
472192 2014 DW_{129}	16.2	X	349.38124	294.54108	4.11744	8.46947	0.0727396	0.17699959	3.1416265	21	7 11.3	20.3
472193 2014 DK_{130}	16.9	X	274.72214	316.09515	117.28953	3.16089	0.0387352	0.20334272	2.8640700	21	9 24.9	20.7
472194 2014 DC_{131}	16.1	X	343.88607	173.36982	162.16706	19.00211	0.1506052	0.18855001	3.0119772	21	8 16.3	19.5
472195 2014 DK_{133}	16.3	X	19.63522	190.25686	167.74256	5.50866	0.0687945	0.21173750	2.7878593	21	11 15.8	19.9
472196 2014 DE_{142}	17.2	X	336.48253	11.74649	68.22787	4.86601	0.2547961	0.24085844	2.5583589	21	—	—
472197 2014 EG	15.9	X	188.13392	137.71756	334.35294	12.28379	0.1069690	0.18938460	3.0031218	21	7 27.4	20.6
472198 2014 EQ_{6}	16.4	X	210.66033	141.52620	318.33781	0.70509	0.0406618	0.18794885	3.0183964	21	8 6.5	20.6
472199 2014 EH_{8}	16.4	X	142.35592	340.29351	145.40257	11.93175	0.0880641	0.17822081	3.1272584	21	6 24.0	21.3
472200 2014 EJ_{8}	16.5	X	180.92596	7.25222	100.59724	10.98274	0.0481355	0.17893736	3.1189042	21	7 12.4	21.1
472201 2014 EK_{10}	16.3	X	191.89613	74.95796	18.36436	8.98911	0.1177333	0.18357473	3.0661551	21	7 5.9	21.2
472202 2014 EU_{10}	16.5	X	131.15800	97.77267	64.79374	6.40851	0.0757720	0.17898064	3.1184013	21	7 27.9	21.2
472203 2014 EX_{13}	17.2	X	354.09260	303.27412	102.49908	4.80747	0.0484715	0.22234160	2.6984988	21	12 10.4	20.7
472204 2014 EY_{15}	17.2	X	203.03932	328.14202	135.10099	2.78843	0.1401138	0.19015767	2.9949769	21	7 27.1	21.8
472205 2014 EJ_{17}	17.1	X	287.66799	139.14449	295.38960	1.84678	0.1560724	0.21785395	2.7354310	21	9 26.7	20.3
472206 2014 EQ_{17}	16.3	X	40.97555	155.59071	82.00066	6.06379	0.1128782	0.17266449	3.1939936	21	7 12.1	20.4
472207 2014 EU_{20}	16.8	X	11.66055	25.57560	35.58768	5.47800	0.2429136	0.24664186	2.5182076	21	—	—
472208 2014 EY_{21}	15.8	X	119.63772	153.72413	35.49809	28.74212	0.1153121	0.18113638	3.0936102	21	9 6.8	21.1
472209 2014 EE_{22}	17.0	X	214.61376	27.68112	149.88757	5.16611	0.0322050	0.21876552	2.7278269	21	11 23.3	20.8
472210 2014 EJ_{22}	16.0	X	103.13177	178.00542	1.99221	7.97631	0.0082603	0.17769267	3.1334519	21	7 7.8	20.5
472211 2014 EL_{26}	14.2	X	252.55264	349.67663	151.64093	9.79187	0.0406185	0.08286004	5.2108186	21	11 4.6	21.2
472212 2014 EM_{29}	16.6	X	281.82950	293.82132	90.73147	2.98481	0.0934095	0.19030077	2.9934753	21	7 22.2	20.7
472213 2014 EM_{38}	16.6	X	260.35918	331.93570	107.72010	8.03671	0.0344846	0.19795975	2.9157578	21	9 16.4	20.7
472214 2014 EF_{39}	16.3	X	20.28743	318.37059	56.30056	6.76478	0.0502297	0.21854430	2.7296673	21	12 5.1	19.8
472215 2014 EH_{39}	16.0	X	244.29742	246.22925	143.91072	13.22070	0.1846866	0.17717705	3.1395283	21	6 5.9	21.2
472216 2014 EH_{46}	16.5	X	51.98374	250.63795	74.90559	7.38184	0.0409364	0.21143264	2.7905386	21	11 13.5	20.2
472217 2014 EH_{47}	16.6	X	279.70116	281.13018	136.98288	12.81074	0.0060334	0.19746358	2.9206401	21	9 17.3	20.7
472218 2014 EA_{48}	16.6	X	194.37807	39.46205	80.56448	6.75662	0.0892635	0.19003504	2.9962653	21	8 12.9	21.3
472219 2014 FB	17.6	X	143.57688	204.62323	87.96728	23.88176	0.0776714	0.36911459	1.9246950	21	—	—
472220 2014 FB_{3}	16.2	X	40.94961	164.41800	89.92978	10.50897	0.0324626	0.17830418	3.1262836	21	7 25.5	20.5
472221 2014 FK_{4}	16.4	X	41.63947	213.90168	44.12749	10.34984	0.0232368	0.18090967	3.0961943	21	8 1.7	20.8
472222 2014 FN_{4}	16.8	X	209.38324	346.24023	112.60002	8.51405	0.0686293	0.18740400	3.0242439	21	8 2.2	21.3
472223 2014 FV_{45}	16.5	X	121.85687	43.01016	117.16113	10.54226	0.0557018	0.17572007	3.1568587	21	7 10.4	21.1
472224 2014 FR_{49}	15.5	X	172.38504	239.33867	254.79286	10.25354	0.0890897	0.18445439	3.0563990	21	8 1.5	20.4
472225 2014 FD_{51}	16.2	X	25.32724	232.07943	18.24822	9.29360	0.0341617	0.17434392	3.1734490	21	6 28.2	20.6
472226 2014 FU_{53}	16.3	X	153.92543	329.63478	166.55806	9.19678	0.0240481	0.17472856	3.1687899	21	7 14.6	21.0
472227 2014 FF_{64}	16.3	X	349.04818	108.66637	354.53287	14.22656	0.1473400	0.23968021	2.5667364	21	—	—
472228 2014 FL_{64}	14.9	X	254.72547	343.06773	5.83485	19.52060	0.0380591	0.15512860	3.4303740	21	5 4.8	20.2
472229 2014 FD_{66}	16.4	X	328.94888	252.65802	203.67964	13.60204	0.0891452	0.22544718	2.6736600	21	—	—
472230 2014 FG_{66}	15.8	X	111.43861	88.78965	100.08953	9.48040	0.0836636	0.17613125	3.1519436	21	8 8.4	20.4
472231 2014 FU_{71}	5.5	X	354.74419	333.48093	253.04973	2.90099	0.0809679	0.00343169	43.5308619	21	4 29.9	21.5
472232 2014 FW_{71}	5.8	X	280.79269	39.13932	247.58369	13.90290	0.0603972	0.00350922	42.8872895	21	4 6.8	22.1
472233 2014 GG_{32}	15.6	X	224.03172	328.00777	122.60059	11.39771	0.0570730	0.17646584	3.1479581	21	8 9.3	20.2
472234 2014 GA_{41}	16.7	X	114.80029	76.17580	141.59051	11.46592	0.0393826	0.18455240	3.0553168	21	9 13.7	21.1
472235 Zhulong	6.4	X	352.65669	274.17889	319.32151	0.80823	0.4097922	0.00238889	55.4207097	21	4 24.0	21.6
472236 2014 HF_{12}	16.0	X	323.04046	219.19845	203.35209	10.06823	0.1296442	0.20433070	2.8548303	21	11 12.4	19.2
472237 2014 HE_{43}	15.7	X	186.29367	207.81644	258.54952	9.12107	0.1030192	0.16989241	3.2286432	21	7 14.1	20.9
472238 2014 HZ_{77}	16.6	X	263.83448	290.84453	159.99995	4.46488	0.1510569	0.19694781	2.9257369	21	9 14.7	20.5
472239 2014 HS_{119}	16.2	X	275.93045	264.97834	149.45872	7.91240	0.1783611	0.18123918	3.0924402	21	8 8.2	20.5
472240 2014 HM_{141}	16.7	X	12.37882	21.87637	20.94152	7.51787	0.1385159	0.21342016	2.7731865	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
472241 2014 HH_{146}	16.2	X	220.05601	277.14648	173.09593	11.37422	0.0671351	0.18561874	3.0436042	21	7 31.9	20.9
472242 2014 JO_{69}	16.0	X	196.57615	250.53266	229.72978	8.57450	0.0808370	0.17423055	3.1748254	21	8 9.7	21.0
472243 2014 KJ_{2}	18.2	X	319.20028	279.11947	64.65618	7.20356	0.2148396	0.30067495	2.2066725	21	7 6.0	19.8
472244 2014 KY_{9}	17.0	X	163.40901	258.84523	68.83586	6.47179	0.2519185	0.22416779	2.6838232	21	1 12.9	21.5
472245 2014 KE_{78}	18.0	X	327.60308	315.60059	223.02830	20.85608	0.0551576	0.38763028	1.8629059	21	—	—
472246 2014 LF_{10}	16.5	X	106.06565	91.36274	212.05804	6.34809	0.1093369	0.19919794	2.9036626	21	12 22.5	21.0
472247 2014 LH_{18}	16.9	X	97.20482	200.10987	161.81271	6.74639	0.1145061	0.21710274	2.7417374	21	—	—
472248 2014 MH_{19}	18.6	X	60.14880	213.52051	297.78741	20.02094	0.0586271	0.39715068	1.8330142	21	2 20.9	20.3
472249 2014 MW_{39}	16.4	X	28.51395	273.82401	100.23627	10.94670	0.1172355	0.17150984	3.2083127	21	12 15.2	20.6
472250 2014 MD_{41}	15.5	X	135.41537	14.91030	140.90734	29.10647	0.1415031	0.17404839	3.1770402	21	7 27.6	20.6
472251 2014 MX_{57}	16.0	X	26.66601	291.03664	93.10071	10.63865	0.0903159	0.17593017	3.1543448	21	12 21.9	20.3
472252 2014 MP_{58}	16.1	X	66.24308	269.89107	98.29601	10.72863	0.1882192	0.18245381	3.0787004	21	—	—
472253 2014 NA	19.1	X	61.10637	245.26505	282.87225	14.86380	0.0576706	0.54374971	1.4866316	21	2 15.1	19.4
472254 2014 OH_{49}	16.7	X	357.88337	322.80153	89.54422	5.42738	0.2246140	0.17413098	3.1760355	21	12 28.9	20.1
472255 2014 ON_{69}	16.0	X	343.56332	331.91312	98.88158	11.25479	0.0698788	0.17711232	3.1402932	21	12 18.1	20.1
472256 2014 OM_{108}	16.8	X	94.21882	308.69177	80.22399	5.49550	0.1112887	0.20934625	2.8090487	21	—	—
472257 2014 OG_{208}	16.7	X	43.78372	211.47775	165.76714	2.81671	0.1259809	0.18377685	3.0639065	21	—	—
472258 2014 OP_{222}	16.5	X	31.63840	103.31469	341.99638	14.49104	0.1235123	0.20502727	2.8483605	21	—	—
472259 2014 PU_{5}	15.7	X	112.02894	7.73714	284.07616	14.47509	0.0441367	0.18165792	3.0876862	21	12 7.4	20.3
472260 2014 QR_{169}	18.3	X	358.54117	237.09199	335.36519	15.25665	0.0934004	0.38500089	1.8713782	21	2 18.9	19.4
472261 2014 QH_{364}	19.0	X	164.16835	1.09914	155.70971	23.83921	0.0833166	0.42569797	1.7501220	21	9 12.5	20.6
472262 2014 QN_{441}	6.6	X	10.06313	242.81811	144.46336	20.68314	0.2857315	0.00312210	46.3630319	21	11 14.5	21.9
472263 2014 RP_{12}	18.3	X	65.49343	96.47711	38.78164	21.08848	0.4865134	0.93438027	1.0362239	21	—	—
472264 2014 SF_{128}	18.5	X	274.97397	201.59643	332.96304	5.54293	0.1171986	0.32486647	2.0957177	21	—	—
472265 2014 SR_{303}	11.2	X	34.43028	6.99400	21.60596	3.03040	0.3145322	0.01685896	15.0631398	21	12 28.0	22.0
472266 2014 SR_{338}	16.3	X	242.27582	283.75222	42.92784	11.86672	0.0894557	0.22363993	2.6880447	21	3 24.9	20.4
472267 2014 TC_{34}	17.7	X	100.44902	237.87206	239.79030	19.20013	0.0821447	0.36877846	1.9258643	21	3 25.1	20.0
472268 2014 TN_{35}	18.9	X	62.15447	295.13574	213.07653	20.64427	0.0681548	0.36749996	1.9303283	21	3 4.0	21.0
472269 2014 TF_{49}	15.7	X	257.17887	169.77360	112.43413	22.11356	0.1390427	0.20975743	2.8053764	21	2 8.8	20.2
472270 2014 UJ_{1}	16.9	X	77.77107	190.36893	78.16997	8.06287	0.1002487	0.27124665	2.3635228	21	10 22.7	20.1
472271 2014 UM_{33}	4.7	X	276.75055	267.43684	236.59493	17.37731	0.1515499	0.00348403	43.0937954	21	11 5.7	21.1
472272 2014 UY_{34}	18.3	X	199.40925	176.56986	246.26647	19.29175	0.0871024	0.38860247	1.8597976	21	5 28.2	20.0
472273 2014 UK_{51}	17.7	X	328.77274	244.22342	225.23176	4.62951	0.0193630	0.30586717	2.1816285	21	—	—
472274 2014 UC_{84}	17.7	X	277.78358	95.37411	49.63473	8.65405	0.0968206	0.29494490	2.2351609	21	—	—
472275 2014 UG_{116}	17.6	X	66.54447	312.14602	234.75208	19.87332	0.0344447	0.38211403	1.8807918	21	5 20.1	18.8
472276 2014 UN_{132}	16.1	X	294.27682	249.05500	103.52785	8.73807	0.0172051	0.22023646	2.7156674	21	7 7.9	19.6
472277 2014 UO_{140}	17.3	X	165.10659	160.49880	309.51230	3.09818	0.1528838	0.23772242	2.5808095	21	6 30.0	21.4
472278 2014 UB_{170}	16.6	X	33.33144	171.59134	55.26723	3.89443	0.0574156	0.23067244	2.6331296	21	6 7.7	19.7
472279 2014 UW_{192}	16.4	X	101.35758	177.60381	287.15724	12.39606	0.0861063	0.21492110	2.7602602	21	3 30.6	20.4
472280 2014 UY_{197}	17.7	X	216.24019	317.41241	250.26799	4.23731	0.0712962	0.30070211	2.2065396	21	—	—
472281 2014 UG_{209}	16.2	X	238.06109	147.06931	205.01784	5.96884	0.0363742	0.22039387	2.7143741	21	4 21.4	19.9
472282 2014 VW_{10}	15.9	X	8.95773	229.80546	256.42284	14.93093	0.1786391	0.17232788	3.1981514	21	—	—
472283 2014 WK_{4}	17.4	X	180.72663	157.83066	45.05828	7.45057	0.0670444	0.27739667	2.3284588	21	11 19.1	20.6
472284 2014 WP_{49}	18.3	X	258.28303	21.10925	120.45764	2.67007	0.1423801	0.28220125	2.3019547	21	11 28.6	20.8
472285 2014 WW_{62}	18.2	X	329.25266	223.31378	239.74365	3.97652	0.0969703	0.30444139	2.1884347	21	—	—
472286 2014 WQ_{71}	17.3	X	100.30846	75.23218	116.44256	4.43331	0.0822188	0.24188231	2.5511343	21	7 30.3	20.7
472287 2014 WU_{119}	17.4	X	34.25115	294.94901	259.05349	17.76309	0.0461367	0.36349241	1.9444905	21	3 25.5	19.7
472288 2014 WT_{120}	18.1	X	311.65598	78.24767	211.57566	21.04509	0.0635320	0.37479799	1.9051882	21	4 12.1	19.8
472289 2014 WM_{124}	17.8	X	211.86614	325.37189	264.66857	4.93147	0.1628944	0.30149120	2.2026878	21	—	—
472290 2014 WT_{165}	16.9	X	213.43118	225.50833	257.43731	5.14817	0.0854921	0.25657553	2.4527836	21	9 6.1	20.4
472291 2014 WG_{195}	15.7	X	74.58402	240.79909	135.21696	10.36128	0.0708118	0.17649158	3.1476521	21	—	—
472292 2014 WK_{205}	16.6	X	15.21347	86.96130	57.63092	22.23970	0.2000677	0.17758245	3.1347484	21	1 29.9	20.4
472293 2014 WX_{353}	15.7	X	35.73391	312.03033	205.80432	15.40303	0.2054544	0.17864373	3.1223209	21	3 23.1	19.1
472294 2014 WB_{355}	16.2	X	130.49944	326.38812	206.65047	13.35089	0.1069724	0.22329514	2.6908110	21	8 7.8	20.5
472295 2014 WW_{362}	18.7	X	257.83815	136.71749	218.51065	19.95300	0.1271441	0.38070258	1.8854376	21	4 26.5	20.5
472296 2014 WP_{389}	17.2	X	274.07218	302.55317	291.13245	5.02073	0.0210263	0.31192263	2.1533013	21	—	—
472297 2014 WR_{389}	17.5	X	320.31080	324.01390	104.28029	10.01124	0.2366911	0.27180595	2.3602794	21	12 4.7	18.9
472298 2014 WP_{393}	16.7	X	140.96817	46.40503	116.50848	22.98714	0.0589776	0.22887986	2.6468601	21	8 8.6	20.5
472299 2014 WC_{428}	16.4	X	190.91351	349.31543	306.85454	27.03468	0.1401330	0.29823870	2.2186734	21	—	—
472300 2014 WN_{429}	15.6	X	171.79063	319.13421	77.99956	12.85236	0.0410987	0.17414888	3.1758179	21	4 11.1	20.4
472301 2014 WY_{480}	16.1	X	341.38421	68.94046	242.67948	13.81402	0.1030774	0.21903225	2.7256118	21	7 10.2	19.4
472302 2014 WO_{481}	16.7	X	251.87631	254.95223	138.71992	22.42459	0.0532892	0.21898114	2.7260359	21	7 2.3	20.8
472303 2014 WK_{493}	16.5	X	198.68257	193.13335	267.89067	14.64235	0.0910105	0.22734592	2.6587526	21	7 19.9	20.6
472304 2014 WP_{493}	15.7	X	41.44200	298.68621	251.74961	13.44284	0.1309855	0.19051114	2.9912713	21	5 9.9	19.3
472305 2014 WH_{495}	15.7	X	331.80508	66.63545	148.06424	16.68172	0.0588353	0.17070945	3.2183333	21	3 1.2	20.0
472306 2014 WG_{496}	16.7	X	158.81957	278.94305	229.65705	11.11702	0.1054256	0.22618044	2.6678783	21	8 6.4	21.0
472307 2014 WC_{499}	17.5	X	210.21840	163.27061	244.52212	19.51853	0.1104674	0.37771052	1.8953816	21	5 18.6	19.6
472308 2014 XN_{9}	17.6	X	221.69144	134.58159	248.65085	17.77520	0.0955514	0.37647814	1.8995156	21	4 22.9	20.2
472309 2014 XM_{14}	17.8	X	210.17422	110.09367	76.83543	7.18044	0.0493298	0.28164243	2.3049986	21	12 7.9	20.6
472310 2014 YP_{4}	17.1	X	118.80613	87.45889	129.52071	13.87114	0.2053058	0.22856219	2.6493121	21	10 7.6	21.7
472311 2014 YK_{6}	17.1	X	58.97981	250.74651	120.07810	6.56638	0.1338833	0.29225830	2.2488379	21	—	—
472312 2014 YO_{6}	17.2	X	258.14329	199.64156	268.69614	4.01019	0.0592474	0.25879566	2.4387357	21	10 19.6	20.3
472313 2014 YV_{6}	15.5	X	3.71213	44.66655	128.16815	9.00230	0.0283534	0.17535739	3.1612100	21	2 21.9	19.8
472314 2014 YV_{8}	18.1	X	317.15288	33.62732	293.84827	18.29421	0.0701760	0.38446386	1.8731204	21	6 29.4	19.4
472315 2014 YA_{10}	16.2	X	173.10011	71.14621	89.11047	10.73690	0.1721455	0.24560045	2.5253211	21	9 15.4	20.5
472316 2014 YD_{10}	16.3	X	359.92668	91.80696	131.84079	26.66321	0.2059370	0.18421655	3.0590291	21	4 20.1	20.2
472317 2014 YR_{21}	18.0	X	229.79439	121.03411	292.52089	18.91987	0.1227563	0.37869048	1.8921103	21	6 22.2	20.4
472318 2014 YR_{28}	17.3	X	82.20113	249.33760	279.82992	17.81448	0.0669492	0.36421600	1.9419142	21	5 23.6	19.3
472319 2014 YT_{32}	17.4	X	47.82600	319.54543	71.46434	5.95076	0.1919373	0.29905760	2.2146214	21	—	—
472320 2014 YO_{35}	17.7	X	357.25952	5.02070	83.26841	5.39446	0.1255820	0.29669580	2.2263586	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
472321 2014 YT_{43}	17.9	X	151.91534	180.93676	332.74831	20.57399	0.0610212	0.38762084	1.8629361	21	8 18.8	19.7
472322 2014 YB_{44}	18.5	X	348.84112	330.04692	329.36037	18.23741	0.0589100	0.38072898	1.8853505	21	7 19.1	20.1
472323 2014 YF_{45}	17.0	X	266.28211	346.14952	123.46292	12.12723	0.1499679	0.26710340	2.3879016	21	10 27.9	20.0
472324 2014 YA_{47}	17.8	X	179.47669	316.13580	138.77677	23.60088	0.0759589	0.37330029	1.9102806	21	6 24.9	20.6
472325 2015 AU_{56}	18.2	X	308.87600	273.26980	288.17390	3.52445	0.1327463	0.31524311	2.1381540	21	—	—
472326 2015 AP_{76}	17.2	X	154.17164	45.21593	127.21978	9.68691	0.1016122	0.23773921	2.5806881	21	9 8.9	21.1
472327 2015 AJ_{139}	17.9	X	186.68709	245.82235	316.04326	1.37165	0.1641490	0.25907931	2.4369553	21	11 14.3	21.6
472328 2015 AF_{149}	17.3	X	153.27954	240.07222	343.73173	4.16261	0.1478220	0.25382494	2.4704716	21	11 9.3	21.3
472329 2015 AS_{165}	17.3	X	200.20903	8.19104	122.75811	18.41853	0.0894028	0.23918254	2.5702956	21	9 7.0	21.3
472330 2015 AY_{170}	15.9	X	9.13128	227.02852	311.36807	9.35405	0.0674626	0.17598931	3.1536381	21	3 1.9	20.1
472331 2015 AM_{203}	16.4	X	73.92433	211.29879	74.43041	15.00894	0.1999340	0.23793929	2.5792411	21	11 16.4	20.3
472332 2015 AV_{205}	17.4	X	18.43196	294.93952	103.45552	5.76592	0.1579197	0.28748409	2.2736669	21	—	—
472333 2015 AS_{222}	15.3	X	322.86189	325.88192	260.92757	10.06775	0.0246820	0.17633091	3.1495638	21	3 1.5	19.9
472334 2015 AS_{224}	16.1	X	240.38800	170.43029	269.54656	12.69014	0.1835660	0.23905579	2.5712040	21	7 29.3	20.1
472335 2015 AU_{229}	16.7	X	37.19700	354.39374	287.59214	12.41782	0.1365810	0.22712918	2.6604439	21	9 4.2	20.1
472336 2015 AF_{230}	16.4	X	148.01283	21.46723	145.72652	22.30655	0.0473678	0.22870152	2.6482360	21	8 21.1	20.1
472337 2015 AO_{239}	16.7	X	268.94426	203.98529	179.53143	5.62705	0.0401387	0.21926937	2.7236465	21	7 10.9	20.5
472338 2015 AN_{241}	16.4	X	117.85566	96.67628	135.48553	21.95618	0.1021377	0.23573027	2.5953294	21	10 21.8	20.7
472339 2015 AR_{241}	16.8	X	122.04988	262.95252	325.15137	11.44726	0.2196354	0.23106391	2.6301547	21	10 13.9	21.4
472340 2015 AC_{245}	16.2	X	112.47626	169.71908	84.45774	13.27842	0.0931176	0.23946916	2.5682442	21	11 8.8	20.1
472341 2015 AO_{245}	16.8	X	160.83874	59.09812	115.70395	14.31494	0.1789256	0.22937670	2.6430366	21	9 21.6	21.4
472342 2015 AC_{248}	17.5	X	181.44144	139.54158	101.61021	12.58924	0.1901098	0.27684255	2.3315648	21	12 29.1	21.1
472343 2015 AE_{254}	17.2	X	96.58417	239.02169	10.90459	3.27991	0.1847382	0.23777091	2.5804587	21	10 21.0	21.2
472344 2015 AE_{261}	15.9	X	275.13034	75.59086	210.01943	11.31642	0.1143006	0.17939017	3.1136535	21	3 4.9	20.7
472345 2015 AA_{263}	17.4	X	21.07415	271.04417	124.90214	4.23272	0.1531541	0.27718900	2.3296216	21	—	—
472346 2015 AS_{274}	18.3	X	218.09983	147.32116	75.95605	3.08150	0.1594693	0.27872473	2.3210565	21	—	—
472347 2015 AP_{275}	17.9	X	321.46947	57.53139	113.43272	4.13199	0.1217645	0.30104775	2.2048504	21	—	—
472348 2015 BU	17.9	X	299.03515	195.80182	359.48998	3.97173	0.0690028	0.30580779	2.1819109	21	—	—
472349 2015 BM_{2}	16.5	X	253.16205	301.78572	127.77620	22.69391	0.0328348	0.23543555	2.5974948	21	8 26.5	20.1
472350 2015 BR_{6}	17.3	X	319.41860	306.07647	134.55398	22.94298	0.2037554	0.27364669	2.3496829	21	12 24.9	19.5
472351 2015 BH_{11}	18.0	X	256.54298	151.34139	69.65847	5.37726	0.0826405	0.30292663	2.1957240	21	—	—
472352 2015 BR_{17}	16.7	X	13.77385	193.83559	127.40550	5.01072	0.0382583	0.23572463	2.5953707	21	9 20.2	19.9
472353 2015 BF_{18}	15.5	X	7.76125	265.93673	311.85415	24.05994	0.2876377	0.17424614	3.1746360	21	3 29.2	19.0
472354 2015 BS_{24}	16.3	X	11.69337	35.75478	269.79717	4.36324	0.0498149	0.22371259	2.6874626	21	8 21.9	19.7
472355 2015 BV_{26}	16.6	X	91.50478	64.00215	148.73048	8.75618	0.2258965	0.21069385	2.7970580	21	9 2.8	20.9
472356 2015 BR_{28}	18.4	X	215.82761	254.47143	149.27346	23.79020	0.0354470	0.35832004	1.9631583	21	5 31.5	21.3
472357 2015 BT_{28}	16.3	X	11.84068	288.44510	305.69040	16.04473	0.2779997	0.18168003	3.0874356	21	5 18.4	19.3
472358 2015 BL_{29}	17.0	X	48.57938	75.00066	189.67458	5.99687	0.0362989	0.22287123	2.6942220	21	8 18.5	20.5
472359 2015 BF_{30}	16.6	X	60.81067	337.16377	150.19731	15.80681	0.2335979	0.17515139	3.1636881	21	4 9.9	20.5
472360 2015 BG_{30}	16.9	X	39.13055	0.37900	205.39356	2.79359	0.0722136	0.19286273	2.9669063	21	5 22.6	20.7
472361 2015 BN_{30}	15.6	X	357.40341	109.86787	171.65751	5.94674	0.2665195	0.19683363	2.9268683	21	6 24.8	18.1
472362 2015 BW_{30}	17.6	X	163.77430	96.31048	151.45740	4.03026	0.1538598	0.25796611	2.4439610	21	12 20.2	21.5
472363 2015 BX_{30}	16.6	X	124.93171	289.37600	321.26897	12.17384	0.1420375	0.24282549	2.5445239	21	11 11.7	20.9
472364 2015 BJ_{31}	16.6	X	205.66765	282.16370	181.40945	6.39852	0.0370837	0.22277525	2.6949958	21	8 5.3	20.4
472365 2015 BZ_{32}	17.7	X	195.43376	153.43076	101.71642	7.61908	0.0816586	0.28751610	2.2734981	21	—	—
472366 2015 BJ_{34}	18.0	X	225.10400	131.35637	135.41725	3.80507	0.0930815	0.30475694	2.1869238	21	—	—
472367 2015 BQ_{35}	16.0	X	102.26524	343.40417	258.91385	12.49688	0.1146700	0.22642577	2.6659509	21	10 4.5	20.2
472368 2015 BZ_{36}	15.7	X	0.34745	312.14785	289.24360	15.89683	0.2123921	0.17867061	3.1220077	21	4 29.6	19.3
472369 2015 BN_{58}	16.6	X	63.20197	62.92959	112.26600	12.11705	0.0885186	0.19641886	2.9309872	21	5 22.5	20.6
472370 2015 BX_{59}	16.2	X	66.03951	85.54033	122.49304	9.68108	0.0823824	0.20944191	2.8081932	21	7 5.1	19.8
472371 2015 BD_{60}	17.6	X	244.21433	291.39046	327.01711	3.97631	0.1264847	0.30549062	2.1834209	21	—	—
472372 2015 BD_{63}	17.6	X	232.17855	139.21503	67.16982	6.35235	0.1107354	0.27897343	2.3196769	21	—	—
472373 2015 BC_{65}	16.6	X	40.71502	162.42911	114.31343	14.88814	0.2250613	0.22195500	2.7016314	21	9 30.7	20.1
472374 2015 BV_{65}	16.6	X	318.49971	183.91139	106.67707	7.55317	0.0290996	0.20080378	2.8881614	21	5 19.8	20.5
472375 2015 BA_{66}	17.7	X	226.18818	112.29540	99.97935	2.74706	0.1547534	0.27563066	2.3383941	21	—	—
472376 2015 BO_{71}	16.5	X	317.38292	90.76784	293.52246	9.73847	0.0483492	0.24192828	2.5508111	21	9 15.6	19.8
472377 2015 BL_{72}	17.6	X	233.60143	103.92387	291.05563	18.83087	0.0816458	0.36897616	1.9251763	21	5 31.4	20.1
472378 2015 BM_{72}	16.9	X	339.61565	44.01259	258.38327	6.38541	0.1240913	0.21576868	2.7530269	21	6 24.9	20.1
472379 2015 BM_{88}	17.3	X	260.08555	288.52626	296.24582	4.16289	0.0599629	0.29890132	2.2153932	21	—	—
472380 2015 BC_{89}	17.9	X	243.11431	72.60760	119.73744	4.25127	0.1215371	0.27544883	2.3394230	21	—	—
472381 2015 BW_{90}	16.7	X	177.49619	315.17731	145.70369	4.56336	0.0609685	0.20994332	2.8037202	21	6 29.3	20.8
472382 2015 BN_{92}	18.0	X	307.87475	181.62666	142.09569	24.93462	0.0881245	0.37032359	1.9205036	21	6 7.1	20.5
472383 2015 BX_{93}	16.0	X	1.01380	57.10622	150.75937	9.23122	0.0497476	0.18107443	3.0943158	21	4 2.2	20.1
472384 2015 BE_{100}	16.5	X	112.99495	253.28208	316.48283	12.86249	0.1631441	0.22319029	2.6916537	21	9 9.7	20.8
472385 2015 BY_{100}	16.7	X	41.00086	167.28410	146.80320	7.27882	0.1915148	0.24214585	2.5492829	21	11 13.3	20.0
472386 2015 BZ_{101}	17.2	X	234.26549	62.46677	128.38060	7.93730	0.0688256	0.26993224	2.3711892	21	—	—
472387 2015 BH_{104}	16.5	X	185.65356	344.64910	118.27485	16.91691	0.0287410	0.22378968	2.6868454	21	7 12.2	20.3
472388 2015 BZ_{122}	18.0	X	187.15039	179.29210	107.04929	4.86489	0.1658320	0.29579890	2.2308567	21	—	—
472389 2015 BF_{130}	17.2	X	226.50654	334.25294	129.72535	22.39978	0.0421489	0.23835875	2.5762143	21	9 7.3	20.9
472390 2015 BS_{130}	16.8	X	195.13158	320.87158	127.96458	10.34344	0.1545106	0.22242611	2.6978152	21	7 1.4	21.2
472391 2015 BU_{132}	17.6	X	179.15463	153.25542	62.20227	2.47005	0.1501400	0.25762888	2.4460933	21	11 25.1	21.2
472392 2015 BK_{139}	18.2	X	207.25801	154.46908	94.29288	7.37082	0.0691432	0.28766663	2.2727050	21	—	—
472393 2015 BQ_{143}	17.9	X	230.29332	197.62873	73.12539	5.54817	0.1524312	0.30287631	2.1959672	21	—	—
472394 2015 BU_{143}	15.7	X	291.59241	179.64435	112.97553	14.31793	0.0787064	0.18803705	3.0174524	21	4 15.8	20.2
472395 2015 BZ_{146}	17.0	X	23.66023	209.74476	88.36180	3.38018	0.1917478	0.22916751	2.6446448	21	9 21.9	19.8
472396 2015 BE_{157}	16.8	X	109.72024	46.36659	152.66724	8.44514	0.1505369	0.21130179	2.7916905	21	8 26.6	20.9
472397 2015 BY_{158}	17.6	X	221.40824	299.58424	261.42692	5.19447	0.0702600	0.27287545	2.3541081	21	—	—
472398 2015 BD_{184}	16.6	X	46.25820	163.81442	83.77344	8.11299	0.0595778	0.21758806	2.7376589	21	7 28.9	20.1
472399 2015 BQ_{186}	17.7	X	198.63393	267.22815	0.87969	6.62039	0.1156712	0.28972580	2.2619236	21	—	—
472400 2015 BW_{193}	18.2	X	214.70485	107.81897	116.53368	8.12835	0.0646540	0.27903720	2.3193234	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
472401 2015 BC_{196}	17.4	X	153.17763	191.45440	62.77308	5.46631	0.1528740	0.26157735	2.4214154	21	12 18.6	21.2
472402 2015 BO_{197}	18.2	X	170.12198	140.66658	120.03529	8.44968	0.1782377	0.27367250	2.3495351	21	—	—
472403 2015 BE_{227}	18.5	X	221.49909	243.01574	29.63896	3.53767	0.1577631	0.31073633	2.1587782	21	—	—
472404 2015 BP_{240}	16.8	X	74.76517	238.14086	295.95672	6.70956	0.0693489	0.20162347	2.8803283	21	5 30.1	20.7
472405 2015 BT_{241}	17.2	X	224.47743	314.90251	286.22770	6.78562	0.0294527	0.29505392	2.2346103	21	—	—
472406 2015 BM_{242}	17.7	X	282.12666	259.61701	286.28125	5.31688	0.1122855	0.29269527	2.2465991	21	—	—
472407 2015 BX_{243}	18.1	X	288.78870	24.90494	153.91721	4.55413	0.0668153	0.29429212	2.2384649	21	—	—
472408 2015 BC_{244}	17.7	X	229.88174	303.07863	155.61781	7.93178	0.0327111	0.23760464	2.5816623	21	9 2.0	21.2
472409 2015 BY_{245}	17.7	X	256.93155	254.65134	295.21047	5.61027	0.0927905	0.28378850	2.2933633	21	—	—
472410 2015 BR_{246}	17.7	X	259.99322	294.06956	243.69099	1.21090	0.1375109	0.27908903	2.3190363	21	—	—
472411 2015 BE_{250}	16.6	X	41.35160	92.42627	128.84840	15.73305	0.1076107	0.20113015	2.8850362	21	6 20.9	20.3
472412 2015 BR_{250}	17.4	X	101.70499	257.31592	335.38716	3.24905	0.1512284	0.22906630	2.6454237	21	9 30.1	21.4
472413 2015 BR_{252}	17.6	X	228.33869	42.06484	183.55745	3.69415	0.1797323	0.28012628	2.3133081	21	—	—
472414 2015 BN_{254}	16.8	X	193.88735	286.57248	285.28060	5.75467	0.1595096	0.26118053	2.4238674	21	12 4.5	20.4
472415 2015 BB_{259}	17.3	X	184.53510	298.78776	297.48082	6.64928	0.0646072	0.27284939	2.3542580	21	—	—
472416 2015 BD_{261}	17.5	X	190.02578	136.06477	140.13918	5.26646	0.1986053	0.29012207	2.2598635	21	—	—
472417 2015 BU_{262}	16.6	X	125.90260	23.57390	151.64117	14.20849	0.0185865	0.21607827	2.7503966	21	7 30.7	20.5
472418 2015 BV_{262}	17.3	X	153.79385	232.04475	332.00568	11.27336	0.1309368	0.23764258	2.5813875	21	10 11.1	21.6
472419 2015 BU_{263}	16.9	X	246.87522	267.68985	259.29554	10.17890	0.1732055	0.26477652	2.4018713	21	12 7.4	19.8
472420 2015 BT_{264}	17.1	X	142.82269	295.16431	301.84372	9.93585	0.1482715	0.23841480	2.5758105	21	11 12.6	21.4
472421 2015 BV_{268}	18.4	X	247.90872	333.26973	278.94637	3.86656	0.1191107	0.30618758	2.1801063	21	—	—
472422 2015 BO_{269}	16.9	X	12.20580	203.33706	98.74521	3.31398	0.0648202	0.22705506	2.6610228	21	8 22.6	20.1
472423 2015 BB_{273}	17.0	X	108.44073	48.31299	121.85843	5.82721	0.0891390	0.21004315	2.8028318	21	7 11.5	21.0
472424 2015 BB_{276}	16.1	X	311.88811	303.59002	338.91478	8.65054	0.0589416	0.18385647	3.0630219	21	4 21.8	20.4
472425 2015 BE_{277}	16.5	X	288.46448	247.81318	145.45385	11.41469	0.1689420	0.23198471	2.6231904	21	7 31.8	19.8
472426 2015 BN_{277}	16.2	X	289.55997	308.87604	347.09364	9.55881	0.1924310	0.17623036	3.1507617	21	3 25.1	20.9
472427 2015 BA_{278}	17.0	X	47.62765	106.66951	177.01700	2.86512	0.0670386	0.23163328	2.6258429	21	9 19.2	20.3
472428 2015 BU_{278}	16.1	X	333.80709	107.13002	145.46812	9.18719	0.0348879	0.18578260	3.0418143	21	4 23.2	20.3
472429 2015 BD_{296}	17.2	X	174.70950	277.18617	185.05590	11.36215	0.2546832	0.21842204	2.7306859	21	6 29.5	22.2
472430 2015 BK_{297}	17.6	X	168.46685	40.11327	133.41091	9.30149	0.1617206	0.23004612	2.6379068	21	9 24.4	21.9
472431 2015 BZ_{297}	17.4	X	49.78159	282.11993	104.15751	4.71634	0.2169746	0.28240535	2.3008454	21	—	—
472432 2015 BG_{298}	17.6	X	195.93134	292.00589	146.70977	23.46307	0.1082040	0.36248332	1.9480975	21	6 21.3	20.7
472433 2015 BK_{299}	16.9	X	135.93422	86.68469	151.29945	15.77771	0.1200195	0.23744506	2.5828189	21	11 14.1	21.2
472434 2015 BF_{300}	17.8	X	297.66120	26.08119	108.01934	6.98522	0.1685808	0.27282650	2.3543897	21	—	—
472435 2015 BJ_{300}	16.8	X	211.54849	202.36105	39.15748	7.24775	0.0826526	0.27339555	2.3511216	21	—	—
472436 2015 BW_{300}	16.6	X	89.68037	125.22648	150.92226	13.26780	0.1903051	0.22839923	2.6505721	21	11 18.9	21.0
472437 2015 BL_{303}	16.0	X	34.81653	100.17525	132.01882	12.36609	0.1424909	0.18739207	3.0243723	21	6 28.3	19.7
472438 2015 BV_{303}	15.9	X	183.47990	267.99312	124.54824	8.91449	0.0423433	0.17050452	3.2209114	21	4 16.7	20.8
472439 2015 BV_{304}	18.1	X	312.82049	83.49738	105.25250	7.16478	0.0409015	0.29787716	2.2204683	21	—	—
472440 2015 BE_{305}	16.3	X	141.44201	223.55108	1.96898	22.96730	0.0754207	0.23610682	2.5925692	21	10 20.9	20.4
472441 2015 BO_{306}	15.6	X	348.59719	107.58374	71.84324	11.19071	0.0527501	0.17490230	3.1666911	21	2 11.0	20.0
472442 2015 BZ_{306}	17.3	X	342.92598	12.97430	43.21508	7.72274	0.1130859	0.27142853	2.3624668	21	12 25.3	19.7
472443 2015 BM_{312}	18.3	X	248.86490	248.42851	108.57125	24.04300	0.0883792	0.36641688	1.9341303	21	5 6.7	21.3
472444 2015 BN_{313}	16.4	X	69.23415	42.65324	129.05964	10.16138	0.0602377	0.19329110	2.9625213	21	5 22.2	20.5
472445 2015 BK_{318}	17.1	X	333.68614	170.69408	105.65412	3.17902	0.0196516	0.20335846	2.8639222	21	5 21.3	20.9
472446 2015 BY_{318}	16.9	X	55.36229	314.53832	324.59014	7.84280	0.1624196	0.23497047	2.6009212	21	10 5.3	20.3
472447 2015 BK_{321}	17.1	X	4.18590	226.83875	80.83471	6.20150	0.1291149	0.22863326	2.6487630	21	8 22.9	20.0
472448 2015 BL_{323}	17.6	X	178.67323	242.75420	0.10133	6.50267	0.1367968	0.27000373	2.3707706	21	—	—
472449 2015 BV_{325}	16.1	X	184.96501	282.27856	93.37281	3.40595	0.1233304	0.18631839	3.0359799	21	3 27.1	20.9
472450 2015 BJ_{326}	17.2	X	206.07066	281.37563	326.35013	6.73239	0.0911554	0.28461326	2.2889306	21	—	—
472451 2015 BY_{332}	17.8	X	194.57198	179.31234	104.50489	4.67422	0.1311548	0.29799817	2.2198671	21	—	—
472452 2015 BO_{350}	15.8	X	57.56695	81.63644	14.67726	7.61913	0.1201879	0.17156968	3.2075666	21	2 8.3	19.9
472453 2015 BR_{354}	17.8	X	224.34963	305.30987	278.54704	1.85506	0.1766996	0.27529303	2.3403056	21	—	—
472454 2015 BF_{356}	18.1	X	347.10407	351.11008	134.74987	2.42079	0.0858854	0.29495883	2.2350905	21	—	—
472455 2015 BZ_{388}	17.3	X	200.19141	185.98230	82.33955	7.72187	0.1551890	0.29084805	2.2561014	21	—	—
472456 2015 BQ_{390}	17.7	X	76.22284	213.01822	107.87967	3.48211	0.0927464	0.26561754	2.3967987	21	12 23.0	20.8
472457 2015 BA_{407}	18.3	X	188.53547	0.60140	309.82389	1.74345	0.0816821	0.30474213	2.1869946	21	—	—
472458 2015 BJ_{407}	16.4	X	56.10688	148.96113	135.33327	15.53904	0.1699081	0.23271345	2.6177112	21	10 24.1	20.2
472459 2015 BF_{408}	17.5	X	123.96291	281.07667	330.13395	7.58003	0.2195773	0.24291932	2.5438686	21	11 16.2	21.9
472460 2015 BU_{413}	18.2	X	210.48061	145.12637	66.72646	2.34919	0.1415621	0.26750159	2.3855314	21	12 25.7	21.4
472461 2015 BN_{414}	18.2	X	221.73290	201.19023	89.55545	4.46445	0.0241929	0.31166226	2.1545003	21	—	—
472462 2015 BD_{415}	16.8	X	357.12557	107.94484	128.07775	17.56518	0.1611708	0.18420431	3.0591647	21	5 1.8	20.6
472463 2015 BR_{416}	16.6	X	318.95373	156.81674	133.94583	13.46884	0.0736531	0.19645374	2.9306403	21	5 17.8	20.7
472464 2015 BN_{417}	17.2	X	102.51963	131.80946	123.37023	7.41470	0.1999319	0.23548731	2.5971142	21	11 6.3	21.4
472465 2015 BW_{422}	17.5	X	335.23373	204.86751	156.19713	3.02666	0.0516038	0.23689650	2.5868046	21	9 16.1	20.4
472466 2015 BJ_{425}	17.1	X	6.62686	111.07301	140.80664	15.86429	0.0953115	0.19690985	2.9261130	21	6 6.2	20.9
472467 2015 BB_{438}	17.4	X	159.48378	139.82522	102.48602	3.11669	0.1451871	0.25521381	2.4615005	21	12 9.6	21.3
472468 2015 BZ_{440}	16.7	X	321.19639	122.56534	142.95950	17.10549	0.1767733	0.17784129	3.1317060	21	4 6.2	21.0
472469 2015 BV_{441}	17.3	X	121.39398	102.08512	142.55785	10.00788	0.1654675	0.23807577	2.5782553	21	11 9.2	21.6
472470 2015 BR_{451}	17.3	X	132.55117	306.96617	345.71786	7.83295	0.1249358	0.26664267	2.3906516	21	—	—
472471 2015 BL_{459}	17.0	X	305.22458	218.61305	139.71150	6.77169	0.0518973	0.22213794	2.7001479	21	7 26.2	20.3
472472 2015 BH_{461}	17.6	X	187.89765	280.60457	342.97266	7.62850	0.0983741	0.27878860	2.3207020	21	—	—
472473 2015 BJ_{463}	17.7	X	98.76722	262.72837	352.30417	7.72601	0.1706415	0.23444210	2.6048275	21	10 25.6	21.8
472474 2015 BD_{468}	16.1	X	328.96322	132.87905	125.37425	10.07569	0.0771561	0.18269886	3.0759469	21	4 20.6	20.3
472475 2015 BF_{468}	16.7	X	300.32919	280.37985	133.03837	15.13590	0.0651580	0.24407204	2.5358528	21	10 11.0	20.0
472476 2015 BH_{472}	17.3	X	189.65353	353.68218	280.34093	6.33884	0.1594984	0.28941556	2.2635398	21	—	—
472477 2015 BP_{482}	17.7	X	247.47315	322.38937	248.80661	2.74338	0.0764578	0.28824085	2.2696856	21	—	—
472478 2015 BT_{486}	16.5	X	344.72740	110.54495	136.67083	22.06361	0.2595362	0.18140897	3.0905104	21	4 12.4	20.2
472479 2015 BK_{491}	16.4	X	34.50374	171.44521	130.91081	8.86155	0.0672604	0.23799307	2.5788525	21	9 30.2	19.7
472480 2015 BE_{499}	17.8	X	159.06784	146.26539	154.48211	4.13691	0.1469303	0.28717678	2.2752887	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
472481 2015 BZ_{500}	17.9	X	162.71635	36.34901	219.76599	1.42021	0.1008785	0.26741010	2.3860755	21	—	—
472482 2015 BC_{502}	16.4	X	343.29201	160.08487	153.00599	12.70694	0.1438311	0.21920684	2.7241644	21	7 15.7	19.4
472483 2015 BK_{512}	17.0	X	171.40444	316.33202	178.80324	3.18315	0.1046853	0.22649992	2.6653691	21	8 5.9	21.0
472484 2015 BL_{512}	17.4	X	228.40174	84.14828	332.29396	5.54303	0.2323407	0.23059039	2.6337543	21	6 16.6	21.8
472485 2015 BC_{513}	18.6	X	244.45106	253.54306	124.74640	27.04578	0.2083534	0.36592871	1.9358501	21	5 20.3	22.1
472486 2015 CH_{5}	17.1	X	171.97577	343.56320	142.44000	4.91361	0.1081856	0.22546253	2.6735387	21	7 26.1	21.1
472487 2015 CN_{7}	17.8	X	148.27594	330.97725	311.31150	1.95887	0.1689825	0.27041682	2.3683556	21	—	—
472488 2015 CU_{8}	17.3	X	258.45473	301.62214	223.55125	5.86175	0.1324318	0.27198455	2.3592460	21	12 30.1	20.0
472489 2015 CF_{9}	17.6	X	199.71775	284.90615	274.84702	2.39781	0.1374538	0.25903397	2.4372397	21	11 27.2	21.1
472490 2015 CB_{10}	16.0	X	291.16325	132.13253	157.43920	11.27277	0.1326320	0.17987766	3.1080254	21	3 31.1	20.4
472491 2015 CK_{10}	17.1	X	194.28889	291.75728	269.53281	4.34095	0.1296943	0.25627385	2.4547081	21	11 23.5	20.6
472492 2015 CL_{11}	17.5	X	211.26531	337.58752	336.03112	4.19335	0.0933234	0.30891680	2.1672468	21	1 16.9	20.3
472493 2015 CO_{11}	17.6	X	313.87249	155.67234	331.86969	3.61627	0.1009677	0.27851487	2.3222223	21	—	—
472494 2015 CU_{11}	17.3	X	213.11895	243.82744	333.85550	5.13707	0.0875148	0.26799396	2.3826086	21	—	—
472495 2015 CV_{11}	16.9	X	95.85740	87.50209	157.08107	12.96024	0.1561897	0.22492169	2.6778227	21	10 13.4	21.1
472496 2015 CB_{15}	17.2	X	234.35255	198.35746	349.74399	11.48759	0.1989799	0.27002384	2.3706529	21	12 15.3	20.5
472497 2015 CC_{17}	15.9	X	29.12658	53.72636	125.05042	17.89970	0.1981045	0.17621356	3.1509620	21	4 18.5	19.7
472498 2015 CH_{20}	15.8	X	15.06818	79.75233	111.71168	22.19383	0.1400930	0.17634763	3.1493648	21	4 9.8	20.0
472499 2015 CN_{21}	17.9	X	174.11320	332.88788	340.86862	4.69935	0.1897535	0.30050076	2.2075252	21	—	—
472500 2015 CA_{23}	17.2	X	240.51748	23.59751	138.12051	2.40257	0.1337341	0.25979638	2.4324690	21	11 27.4	20.2
472501 2015 CR_{23}	16.1	X	197.13888	45.81980	344.65880	6.03037	0.0375186	0.18442620	3.0567104	21	4 22.1	20.6
472502 2015 CS_{23}	16.5	X	23.02466	51.94630	166.43280	8.74698	0.0481912	0.18725551	3.0258425	21	5 16.2	20.6
472503 2015 CD_{27}	18.3	X	177.37538	312.10330	302.40960	2.16584	0.1429557	0.27104773	2.3646790	21	—	—
472504 2015 CB_{28}	16.9	X	157.54060	237.34903	1.09539	6.04614	0.1180875	0.25256783	2.4786623	21	12 2.1	20.7
472505 2015 CO_{28}	17.3	X	318.53098	64.28986	353.65533	7.06234	0.1038280	0.26031161	2.4292583	21	11 7.7	19.9
472506 2015 CT_{29}	16.9	X	295.51740	189.90167	147.61806	5.91679	0.0280653	0.20921721	2.8102035	21	6 18.0	20.7
472507 2015 CD_{30}	17.7	X	169.79564	93.77828	159.75572	3.11654	0.1434599	0.26660881	2.3908540	21	—	—
472508 2015 CM_{30}	16.7	X	19.18830	201.93357	76.02196	4.37188	0.0452937	0.21897996	2.7260457	21	7 28.4	20.1
472509 2015 CZ_{31}	17.5	X	165.29552	193.86239	40.95465	4.25372	0.1273939	0.25843963	2.4409749	21	12 6.5	21.2
472510 2015 CF_{32}	17.4	X	238.31666	227.21849	341.31443	9.56597	0.1113088	0.27402831	2.3475008	21	—	—
472511 2015 CW_{32}	17.1	X	123.08260	66.90833	150.26536	13.99325	0.1610412	0.22412068	2.6841993	21	10 6.9	21.5
472512 2015 CM_{35}	16.8	X	201.86947	25.22020	92.80638	8.70267	0.1440834	0.23573744	2.5952767	21	8 17.6	20.9
472513 2015 CM_{36}	16.2	X	63.48281	77.51829	84.88250	9.69519	0.1549917	0.19006835	2.9959152	21	5 14.7	20.0
472514 2015 CZ_{36}	18.4	X	269.86797	146.73003	44.20291	5.40666	0.1501934	0.28778944	2.2720583	21	—	—
472515 2015 CQ_{38}	16.6	X	42.59452	173.33028	86.25676	14.21044	0.1397902	0.22452060	2.6810109	21	8 25.4	20.1
472516 2015 CY_{38}	17.8	X	250.25191	109.68902	69.44484	3.95127	0.1263505	0.27214710	2.3583065	21	—	—
472517 2015 CN_{39}	17.0	X	101.19139	231.13221	340.61723	13.95645	0.1363261	0.21307084	2.7762167	21	9 1.4	21.1
472518 2015 CL_{41}	18.3	X	359.31895	140.19718	346.95524	5.61828	0.0987551	0.30285707	2.1960602	21	—	—
472519 2015 CM_{43}	17.8	X	172.97856	99.58830	154.30121	7.17831	0.0874524	0.26777312	2.3839184	21	—	—
472520 2015 CL_{44}	17.3	X	157.23212	80.73104	165.19849	6.64399	0.1306326	0.25690018	2.4507167	21	12 13.0	21.1
472521 2015 CO_{46}	17.3	X	199.46601	314.73706	319.01945	6.52177	0.0769533	0.28524515	2.2855490	21	—	—
472522 2015 CF_{47}	17.3	X	110.49281	255.90059	354.08911	8.56348	0.0884272	0.23324678	2.6137193	21	10 24.0	21.1
472523 2015 CP_{48}	17.0	X	141.35039	274.09974	6.18053	6.79211	0.0822322	0.26225281	2.4172558	21	—	—
472524 2015 CR_{48}	17.0	X	129.41187	148.74887	145.02430	8.85176	0.1925257	0.25807803	2.4432544	21	—	—
472525 2015 CX_{49}	17.2	X	97.59427	229.64305	53.44280	3.79496	0.0930822	0.24195359	2.5506332	21	11 24.8	20.8
472526 2015 CL_{51}	18.0	X	351.29503	200.29204	297.09573	4.28551	0.1365642	0.29605927	2.2295486	21	—	—
472527 2015 CZ_{52}	17.5	X	239.82306	109.33759	146.99161	7.57291	0.1326683	0.28567226	2.2832703	21	—	—
472528 2015 CD_{54}	16.0	X	97.51360	300.49561	178.40960	16.67104	0.1855701	0.17926203	3.1151372	21	5 10.5	20.7
472529 2015 CW_{57}	15.9	X	281.40338	179.23583	166.00429	11.02960	0.1705588	0.19233067	2.9723756	21	5 21.9	20.3
472530 2015 CP_{58}	16.1	X	97.36161	117.13479	110.98629	12.33203	0.1398230	0.20911459	2.8111229	21	9 23.3	20.5
472531 2015 CJ_{61}	16.5	X	244.61420	169.69544	315.48436	13.77982	0.0532051	0.24593513	2.5230295	21	10 16.9	20.2
472532 2015 CW_{61}	16.9	X	121.37623	93.99953	150.42485	13.09886	0.2263370	0.23024633	2.6363773	21	11 11.3	21.6
472533 2015 DE	16.2	X	243.00256	260.50640	151.50637	7.47324	0.1208593	0.21597875	2.7512414	21	7 5.4	20.3
472534 2015 DG	17.6	X	295.95058	19.14501	141.02824	7.07588	0.0735577	0.27988309	2.3146479	21	—	—
472535 2015 DS_{2}	17.4	X	100.70718	129.93030	155.46343	6.06057	0.1059729	0.26259227	2.4151722	21	12 6.5	20.9
472536 2015 DS_{3}	15.9	X	12.13802	81.87569	123.04705	12.17232	0.1529688	0.18558990	3.0439195	21	4 15.6	19.5
472537 2015 DC_{17}	17.6	X	157.90645	194.71115	107.13345	6.58672	0.1738016	0.27989609	2.3145762	21	—	—
472538 2015 DC_{19}	17.9	X	122.79788	249.58995	101.81658	3.77601	0.0856049	0.29213096	2.2494913	21	—	—
472539 2015 DE_{21}	18.3	X	290.32475	129.29349	113.96833	3.35767	0.0607839	0.31382142	2.1446067	21	1 14.4	20.9
472540 2015 DL_{22}	17.3	X	159.65474	277.99865	24.77499	5.47588	0.1843833	0.27997845	2.3141223	21	—	—
472541 2015 DW_{23}	17.8	X	151.85562	197.82201	105.15655	2.49824	0.1895824	0.27581234	2.3373670	21	—	—
472542 2015 DW_{25}	17.5	X	253.87009	184.56331	2.60433	6.88358	0.0514355	0.27535581	2.3399499	21	—	—
472543 2015 DN_{26}	17.4	X	132.09291	163.41011	84.02306	4.35750	0.1259960	0.24367509	2.5386060	21	11 19.0	21.3
472544 2015 DJ_{29}	17.3	X	303.11603	131.33572	25.43127	7.29066	0.0547006	0.28505690	2.2865551	21	—	—
472545 2015 DL_{31}	17.2	X	104.27214	113.40633	136.71145	15.98913	0.1608116	0.23030437	2.6359344	21	11 1.3	21.6
472546 2015 DH_{32}	17.0	X	167.77406	51.90569	143.66696	13.31003	0.1000300	0.23949656	2.5680483	21	10 24.9	21.1
472547 2015 DN_{32}	16.3	X	17.04704	195.32088	127.15492	9.87960	0.1288150	0.22899364	2.6459833	21	10 8.8	19.4
472548 2015 DN_{33}	17.6	X	131.96122	237.24311	51.31261	2.74861	0.1992920	0.25847316	2.4407637	21	—	—
472549 2015 DL_{34}	17.4	X	75.87221	247.73131	44.66935	3.98161	0.1314125	0.23921436	2.5700676	21	11 16.1	21.0
472550 2015 DY_{36}	18.1	X	227.59657	132.13509	44.08235	3.05140	0.1187235	0.25777030	2.4451985	21	11 30.9	21.4
472551 2015 DM_{38}	16.4	X	104.37729	147.45213	119.62186	9.26278	0.1268686	0.23928128	2.5695884	21	11 17.6	20.4
472552 2015 DT_{38}	17.6	X	186.27711	102.92525	112.61791	6.56821	0.1399620	0.25340441	2.4732040	21	12 3.3	21.3
472553 2015 DD_{41}	16.3	X	224.12739	265.13729	132.07039	12.79030	0.0667507	0.19942372	2.9014706	21	6 3.4	20.8
472554 2015 DX_{44}	16.3	X	287.97709	186.18790	118.12243	6.46697	0.1151342	0.17932390	3.1144206	21	4 17.6	20.7
472555 2015 DF_{45}	17.2	X	112.34706	171.56071	49.54938	5.42343	0.0947249	0.22394807	2.6855784	21	9 24.4	21.1
472556 2015 DO_{45}	17.0	X	113.56359	191.58639	78.72986	5.11764	0.0692512	0.24613014	2.5216967	21	11 25.8	20.5
472557 2015 DQ_{45}	16.0	X	232.72688	284.41192	132.66801	11.80066	0.1369452	0.21497767	2.7597759	21	6 29.6	20.3
472558 2015 DM_{49}	16.9	X	54.69448	243.31025	52.73023	5.69296	0.1486193	0.23141603	2.6274861	21	10 28.8	20.3
472559 2015 DO_{52}	16.4	X	287.48147	222.82020	98.37177	10.80085	0.0819931	0.18887377	3.0085342	21	5 12.7	20.7
472560 2015 DE_{53}	16.3	X	315.74010	135.04774	145.59274	9.45779	0.0725260	0.18253086	3.0778340	21	4 30.3	20.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
472561 2015 DD_{60}	17.5	X	247.89050	45.39552	146.90428	6.04715	0.1556026	0.27455238	2.3445126	21	—	—
472562 2015 DY_{61}	17.5	X	195.73948	245.84230	316.00357	2.30437	0.1207555	0.25664082	2.4523675	21	11 26.6	21.0
472563 2015 DQ_{62}	17.2	X	159.28027	325.46481	165.42320	0.51998	0.0150093	0.21455373	2.7634101	21	7 15.4	20.8
472564 2015 DO_{68}	18.0	X	141.94514	204.16941	86.79477	3.19796	0.0624230	0.27349877	2.3505300	21	—	—
472565 2015 DR_{73}	18.5	X	272.83788	192.04332	340.12631	0.84156	0.1293142	0.27829236	2.3234600	21	—	—
472566 2015 DP_{74}	18.3	X	200.46117	238.23528	15.29439	1.50852	0.1552042	0.27605929	2.3359729	21	—	—
472567 2015 DF_{80}	17.2	X	101.15213	245.97420	12.49783	5.22865	0.1683899	0.23446944	2.6046251	21	11 2.5	21.1
472568 2015 DD_{81}	16.4	X	52.11696	14.43100	137.19393	12.93086	0.1002481	0.17535563	3.1612310	21	4 10.2	20.6
472569 2015 DB_{82}	16.8	X	146.90476	4.71505	115.31632	3.74664	0.0295372	0.20304318	2.8668861	21	6 16.5	20.7
472570 2015 DN_{84}	16.5	X	289.87521	142.01952	155.91916	10.41204	0.0246145	0.18398931	3.0615474	21	4 24.8	20.9
472571 2015 DE_{90}	17.5	X	141.34908	256.88603	355.00716	5.72761	0.0960617	0.25397814	2.4694779	21	12 3.1	21.2
472572 2015 DK_{94}	16.9	X	307.80815	346.03544	353.23790	8.30327	0.1059577	0.21031204	2.8004423	21	6 26.9	20.5
472573 2015 DD_{95}	17.7	X	287.42424	328.50666	209.59689	2.46824	0.1840534	0.28402546	2.2920875	21	—	—
472574 2015 DU_{96}	16.4	X	290.57818	181.16069	148.23995	10.79938	0.1692780	0.19066204	2.9896927	21	5 14.2	20.8
472575 2015 DD_{101}	16.6	X	18.31779	311.42007	7.23262	7.19605	0.1545117	0.24110361	2.5566243	21	10 5.7	19.2
472576 2015 DK_{109}	17.8	X	292.64887	25.72360	73.88137	9.03288	0.0765664	0.26448374	2.4036436	21	11 29.3	20.4
472577 2015 DU_{110}	16.0	X	342.79998	156.30424	69.36169	12.04627	0.0770884	0.17941547	3.1133608	21	3 31.9	20.2
472578 2015 DV_{113}	17.5	X	255.52816	101.31668	69.88500	6.92567	0.0951012	0.27419115	2.3465714	21	—	—
472579 2015 DC_{117}	15.2	X	171.58073	16.48605	341.32156	14.78643	0.0443914	0.17010834	3.2259104	21	2 19.1	19.9
472580 2015 DW_{117}	17.4	X	249.80979	157.09004	80.26665	7.13743	0.0847825	0.28944595	2.2633813	21	—	—
472581 2015 DC_{118}	15.4	X	237.05219	216.02715	124.16904	10.48421	0.0735091	0.17501655	3.1653128	21	4 10.8	20.3
472582 2015 DJ_{118}	16.5	X	194.41259	280.66392	124.58851	11.68683	0.0318832	0.18679737	3.0307879	21	5 13.8	21.1
472583 2015 DL_{120}	17.4	X	46.13473	314.68845	105.04093	7.11078	0.0777519	0.28656514	2.2785250	21	—	—
472584 2015 DN_{120}	17.3	X	235.57052	208.83015	56.43580	6.90982	0.0428841	0.29592396	2.2302282	21	—	—
472585 2015 DU_{120}	16.7	X	34.29300	176.22244	103.24774	9.61915	0.2775017	0.20357287	2.8619110	21	9 28.5	20.1
472586 2015 DH_{121}	16.7	X	43.33937	204.45136	71.88157	9.34902	0.1573380	0.21186668	2.7867260	21	9 20.3	20.3
472587 2015 DE_{122}	16.7	X	81.16895	203.96640	42.71049	12.64502	0.1511146	0.21721122	2.7408244	21	9 30.5	20.7
472588 2015 DL_{122}	15.7	X	83.53996	68.00316	82.24401	11.26324	0.0509331	0.18372041	3.0645340	21	5 12.6	20.0
472589 2015 DC_{124}	16.8	X	220.93054	108.29716	102.26931	7.55905	0.0720609	0.26536970	2.3982907	21	—	—
472590 2015 DO_{125}	17.3	X	149.51952	78.53137	134.71848	16.64483	0.1015780	0.23379530	2.6096296	21	10 29.3	21.6
472591 2015 DT_{130}	16.5	X	161.65412	134.95227	123.63428	16.40598	0.1123491	0.25433755	2.4671510	21	—	—
472592 2015 DZ_{133}	16.4	X	239.71031	40.45153	103.58957	15.37909	0.0787154	0.24430324	2.5342526	21	11 13.9	20.0
472593 2015 DC_{134}	16.8	X	217.77013	52.66687	101.18200	12.84721	0.1233375	0.24015605	2.5633448	21	10 25.2	20.7
472594 2015 DJ_{136}	16.7	X	47.77194	162.29296	131.58945	16.03231	0.1525374	0.21718851	2.7410154	21	10 21.3	20.6
472595 2015 DV_{136}	16.7	X	160.48359	53.89673	137.67109	16.85006	0.1229732	0.22757318	2.6569823	21	10 12.0	21.1
472596 2015 DE_{137}	16.4	X	88.16307	57.60679	77.59570	6.92538	0.0636868	0.18389495	3.0625946	21	4 30.6	20.6
472597 2015 DX_{137}	15.8	X	205.44644	326.21742	134.59347	18.47054	0.0510449	0.19964469	2.8993292	21	7 31.9	20.1
472598 2015 DZ_{137}	16.7	X	123.78987	52.49981	132.23546	16.49817	0.2301747	0.20261528	2.8709211	21	8 30.3	21.5
472599 2015 DB_{138}	16.0	X	21.50184	130.85052	112.93074	16.88631	0.2379090	0.17385752	3.1793651	21	6 29.6	19.2
472600 2015 DG_{138}	15.5	X	259.09271	246.67984	127.46218	20.16176	0.0177886	0.17969761	3.1101012	21	6 22.1	20.1
472601 2015 DG_{145}	17.3	X	225.83446	323.09842	241.17085	5.23702	0.1359863	0.27609436	2.3357751	21	—	—
472602 2015 DZ_{147}	16.5	X	12.73095	57.35479	151.15280	17.39239	0.1772126	0.18400047	3.0614236	21	4 21.4	20.1
472603 2015 DZ_{151}	17.5	X	110.91446	240.54992	102.33544	3.72147	0.1718074	0.27639672	2.3340713	21	—	—
472604 2015 DJ_{152}	16.1	X	337.66607	107.66062	136.45973	10.17091	0.0360299	0.17473924	3.1686608	21	4 19.4	20.5
472605 2015 DQ_{152}	17.1	X	90.57830	248.74949	99.82147	4.65599	0.0780633	0.27031785	2.3689337	21	—	—
472606 2015 DE_{154}	15.7	X	11.02925	279.92004	25.37115	15.33425	0.2800500	0.20282458	2.8689457	21	9 19.8	18.4
472607 2015 DR_{154}	16.6	X	93.79835	103.97159	151.12775	11.07655	0.1489480	0.22183509	2.7026049	21	10 23.6	20.8
472608 2015 DH_{156}	16.9	X	171.12500	25.51349	145.76320	8.78041	0.1170245	0.22978043	2.6399398	21	9 23.9	21.0
472609 2015 DQ_{157}	18.3	X	298.90775	50.90914	128.82353	2.73645	0.0889630	0.28778176	2.2720988	21	—	—
472610 2015 DA_{158}	17.1	X	190.43811	1.83261	234.95251	6.58323	0.0783708	0.26722239	2.3871927	21	—	—
472611 2015 DA_{162}	16.8	X	196.46101	348.90747	103.01765	10.84084	0.1735146	0.21754130	2.7380512	21	7 6.0	21.1
472612 2015 DT_{163}	17.4	X	85.20088	114.25726	108.88315	4.36196	0.1176285	0.20981043	2.8049040	21	8 26.9	21.3
472613 2015 DF_{165}	17.4	X	123.57129	163.25389	135.24489	2.20407	0.0450595	0.26006290	2.4308069	21	—	—
472614 2015 DP_{165}	17.9	X	263.39034	150.46122	4.67670	6.22469	0.0665932	0.26164958	2.4209697	21	12 31.7	20.9
472615 2015 DJ_{166}	16.8	X	134.99225	188.70452	107.06287	5.80034	0.1892072	0.25764535	2.4459891	21	—	—
472616 2015 DC_{167}	16.7	X	169.81629	49.22911	151.37531	8.95630	0.1014058	0.23978852	2.5659634	21	10 31.6	20.7
472617 2015 DL_{167}	17.6	X	153.57190	93.31667	110.47402	3.40997	0.0802219	0.23427541	2.6060630	21	10 16.8	21.4
472618 2015 DR_{168}	16.3	X	175.95513	224.22395	327.93817	11.55465	0.0942911	0.23993732	2.5649024	21	10 18.9	20.4
472619 2015 DZ_{175}	15.7	X	330.14673	355.74523	286.25492	10.85753	0.1581437	0.17108256	3.2136523	21	5 6.7	19.8
472620 2015 DC_{176}	16.9	X	264.64359	238.90827	190.49272	12.19814	0.0699256	0.23509676	2.5999896	21	8 30.9	20.5
472621 2015 DH_{178}	16.3	X	330.99152	40.69563	207.00985	14.26916	0.2141410	0.17296184	3.1903317	21	3 16.3	20.5
472622 2015 DB_{181}	17.1	X	121.40726	214.69715	88.60888	6.15294	0.0660162	0.27084767	2.3658433	21	—	—
472623 2015 DL_{181}	16.3	X	127.83121	16.24335	265.05581	12.21903	0.2380391	0.23944137	2.5684430	21	12 26.3	20.7
472624 2015 DC_{188}	16.9	X	100.97475	170.79002	107.26238	10.56503	0.2305661	0.23771181	2.5808863	21	12 3.4	21.2
472625 2015 DR_{194}	16.9	X	33.30451	277.84686	81.23112	15.08419	0.1173922	0.27038212	2.3685582	21	12 23.9	19.7
472626 2015 DS_{197}	17.3	X	273.80047	293.63835	236.24576	10.26522	0.1500392	0.27436404	2.3455854	21	—	—
472627 2015 DV_{197}	15.6	X	300.74499	58.90155	255.86688	11.29344	0.1486715	0.18553045	3.0445697	21	5 7.3	19.7
472628 2015 DA_{198}	18.1	X	315.30531	40.07702	301.42022	18.09423	0.0734337	0.37029748	1.9205939	21	7 19.9	19.3
472629 2015 DP_{199}	17.9	X	208.28060	206.00501	230.89043	19.42318	0.0789205	0.36849278	1.9268596	21	6 28.5	20.5
472630 2015 DB_{205}	17.2	X	201.32900	27.68634	167.45633	11.92514	0.0451565	0.24340703	2.5404694	21	12 2.7	20.9
472631 2015 DS_{206}	17.0	X	100.78481	138.21452	143.79188	7.03583	0.1799641	0.22717577	2.6600800	21	12 2.9	21.3
472632 2015 DW_{206}	16.1	X	108.55690	11.29767	163.08989	10.47575	0.0357631	0.19190247	2.9767956	21	7 9.2	20.4
472633 2015 DD_{207}	16.4	X	198.89054	11.10600	120.56670	8.78960	0.1264944	0.21902057	2.7257087	21	8 31.8	20.7
472634 2015 DG_{207}	16.7	X	116.53161	66.26045	157.76292	13.42242	0.1175967	0.21659867	2.7459895	21	10 4.2	20.9
472635 2015 DN_{207}	16.6	X	17.22182	86.66078	138.03886	10.65294	0.1629970	0.17196756	3.2026172	21	5 21.8	20.4
472636 2015 DK_{208}	16.8	X	58.49946	216.33429	92.68531	9.58026	0.0466670	0.22629005	2.6670167	21	11 6.2	20.5
472637 2015 DA_{209}	16.6	X	21.62654	229.69044	117.08778	6.79052	0.0373872	0.22694343	2.6618954	21	11 4.2	20.1
472638 2015 DR_{209}	16.7	X	135.05767	104.38172	81.71500	10.94869	0.0634939	0.20875513	2.8143490	21	9 4.4	21.0
472639 2015 DV_{210}	16.4	X	144.49385	129.36640	99.26684	9.56600	0.0358750	0.22874707	2.6478844	21	11 7.7	20.2
472640 2015 DG_{211}	16.6	X	254.11964	358.71005	144.22287	10.18445	0.0731484	0.24363463	2.5388870	21	11 28.9	20.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
472641 2015 DN_{211}	16.2	X	254.99591	264.99565	171.11730	13.27341	0.0818225	0.21292569	2.7774783	21	8 24.8	20.0
472642 2015 DZ_{211}	17.4	X	8.41744	332.23557	107.79242	7.09304	0.0852078	0.26538622	2.3981912	21	—	—
472643 2015 DF_{212}	15.8	X	39.21935	153.42735	81.03604	10.17746	0.0776164	0.18334094	3.0687611	21	6 30.7	19.8
472644 2015 DG_{212}	17.2	X	357.61064	12.47402	108.36215	7.00599	0.0717976	0.27838751	2.3229305	21	—	—
472645 2015 DL_{212}	16.5	X	61.71590	207.88247	111.40021	7.50657	0.0199765	0.23053772	2.6341553	21	11 19.0	20.1
472646 2015 DR_{212}	15.9	X	294.87467	255.11344	86.71668	10.65109	0.0981216	0.18090130	3.0962897	21	6 13.0	20.1
472647 2015 DA_{213}	16.3	X	65.09297	53.66696	163.39609	7.88080	0.1264703	0.18974331	2.9993356	21	7 21.4	20.4
472648 2015 DF_{213}	16.5	X	343.15841	266.94376	103.25901	10.49915	0.1076799	0.22062192	2.7125033	21	10 15.1	19.8
472649 2015 DN_{213}	17.1	X	146.86838	175.56457	142.35752	8.41061	0.0740332	0.26524590	2.3990369	21	—	—
472650 2015 DV_{213}	16.6	X	173.91002	257.09314	341.10790	5.65466	0.3006451	0.23860141	2.5744673	21	12 7.5	21.3
472651 2015 DB_{216}	8.4	X	330.01774	238.79943	6.25295	37.80042	0.3242266	0.01181218	19.0948375	21	3 26.8	20.0
472652 2015 DF_{217}	17.3	X	140.30241	191.91704	357.69214	9.29179	0.1325924	0.22031012	2.7150620	21	9 14.4	21.4
472653 2015 DD_{218}	16.1	X	62.79530	329.04658	303.92280	8.54072	0.0959846	0.21838000	2.7310363	21	9 24.1	19.9
472654 2015 DE_{218}	17.7	X	261.29881	317.61346	264.28229	4.97831	0.2222734	0.28129626	2.3068893	21	—	—
472655 2015 DH_{218}	18.1	X	37.69869	165.47193	280.06912	4.81662	0.1157178	0.29414058	2.2392337	21	—	—
472656 2015 DY_{218}	16.2	X	49.32573	315.23410	301.66181	8.08114	0.0846116	0.20475622	2.8508737	21	8 14.9	19.8
472657 2015 DK_{219}	16.2	X	353.36228	274.09388	338.17913	12.29716	0.2402495	0.17285245	3.1916776	21	4 27.8	19.7
472658 2015 DU_{219}	17.8	X	207.56926	268.88109	329.12668	6.53193	0.1849103	0.26253591	2.4155178	21	—	—
472659 2015 DY_{219}	16.0	X	345.32684	65.00978	195.60078	26.88660	0.2919504	0.16980276	3.2297795	21	4 22.9	19.3
472660 2015 DM_{221}	15.8	X	103.30796	294.10168	168.03671	16.25980	0.0667501	0.17362548	3.1821971	21	4 10.5	20.4
472661 2015 DU_{221}	16.6	X	252.63905	250.79670	156.88889	12.66075	0.1189081	0.21877520	2.7277464	21	7 10.9	20.7
472662 2015 DM_{222}	16.4	X	67.11094	11.12741	185.41947	5.10375	0.0903801	0.18722966	3.0261210	21	6 22.6	20.5
472663 2015 DB_{223}	17.7	X	280.86756	254.72118	273.79171	2.99798	0.1179096	0.27333475	2.3514702	21	—	—
472664 2015 EB_{3}	17.8	X	260.66516	128.35655	26.22980	2.65953	0.1469910	0.26789974	2.3831672	21	12 15.8	20.3
472665 2015 ED_{3}	17.3	X	172.49678	277.15746	335.24981	4.96757	0.0752304	0.26802799	2.3824070	21	—	—
472666 2015 EJ_{3}	15.9	X	265.96482	147.62049	165.45019	10.93611	0.0599249	0.18099041	3.0952733	21	4 8.8	20.4
472667 2015 ER_{7}	15.3	X	186.78983	308.22883	122.16656	10.78931	0.0617339	0.19317215	2.9637373	21	6 3.2	19.9
472668 2015 ER_{8}	16.5	X	96.58596	320.79625	159.37270	22.09541	0.1796459	0.18582509	3.0413506	21	5 12.1	21.3
472669 2015 EC_{9}	17.2	X	81.77617	104.00292	159.83906	13.00707	0.0889442	0.22688124	2.6623817	21	10 14.1	21.0
472670 2015 EE_{11}	18.0	X	318.75737	129.65816	38.86296	4.32107	0.0764789	0.30007423	2.2096166	21	—	—
472671 2015 EY_{14}	18.2	X	191.36332	207.24955	46.76639	2.65348	0.1673814	0.27283250	2.3543552	21	—	—
472672 2015 EX_{15}	18.2	X	350.95862	74.71216	50.16633	4.63459	0.1056762	0.29746247	2.2225315	21	—	—
472673 2015 EC_{20}	16.4	X	94.34635	247.09367	2.60618	14.64178	0.0993631	0.23429541	2.6059147	21	10 7.3	20.1
472674 2015 EQ_{22}	16.2	X	46.45718	356.70516	161.90029	7.26800	0.0593985	0.17608795	3.1524603	21	4 3.6	20.4
472675 2015 EF_{24}	18.2	X	237.86144	55.75599	129.50863	3.17392	0.1349486	0.26750293	2.3855234	21	12 26.1	21.0
472676 2015 EV_{24}	17.5	X	282.10142	5.10053	138.14828	7.29982	0.0535854	0.27109884	2.3643818	21	—	—
472677 2015 EB_{27}	17.5	X	194.47896	29.06899	190.43124	2.17893	0.1517943	0.25919874	2.4362067	21	12 15.4	21.0
472678 2015 EU_{37}	17.6	X	187.78852	307.40953	352.29710	3.27692	0.1729944	0.29362975	2.2418300	21	—	—
472679 2015 ED_{43}	17.2	X	104.57016	13.44579	256.03252	3.93186	0.2692842	0.23553686	2.5967499	21	11 26.4	21.6
472680 2015 EO_{46}	17.0	X	46.35974	91.87652	185.94396	3.17536	0.1649960	0.21663182	2.7457092	21	9 22.7	20.5
472681 2015 EY_{53}	16.5	X	38.43837	10.37936	281.61515	8.78725	0.3485446	0.21494345	2.7600688	21	10 26.0	20.1
472682 2015 EA_{54}	16.2	X	50.17557	317.77911	267.01460	5.93812	0.1996859	0.19737343	2.9215293	21	7 21.3	19.7
472683 2015 EN_{62}	16.0	X	10.15768	256.93478	347.34087	13.54346	0.1777246	0.18085948	3.0967670	21	5 27.8	19.6
472684 2015 EP_{62}	16.8	X	87.26700	289.96470	328.74001	8.48337	0.2096598	0.21849793	2.7300535	21	10 19.8	21.2
472685 2015 ER_{63}	17.0	X	142.55157	58.28923	121.91749	5.20405	0.1731478	0.21700793	2.7425359	21	9 7.3	21.4
472686 2015 EV_{63}	17.1	X	174.61939	252.30233	16.41986	9.83276	0.2425506	0.25688923	2.4507863	21	—	—
472687 2015 EZ_{63}	15.8	X	16.82743	76.72487	161.70458	26.33573	0.2273897	0.17867679	3.1219358	21	6 12.9	19.6
472688 2015 EG_{64}	17.3	X	172.32562	159.06667	46.73969	7.83188	0.1337390	0.23835101	2.5762700	21	11 5.4	21.2
472689 2015 EL_{64}	17.6	X	292.13725	134.79645	113.03390	1.94847	0.0771215	0.30662148	2.1780491	21	1 22.6	20.3
472690 2015 ES_{64}	16.4	X	90.79860	142.65753	72.55867	9.20669	0.1394745	0.20481776	2.8503026	21	8 29.1	20.7
472691 2015 EZ_{64}	16.9	X	173.22026	41.78984	106.79209	8.94858	0.1430384	0.21751847	2.7382428	21	8 27.8	21.3
472692 2015 EB_{65}	16.7	X	150.84846	338.06702	193.02863	13.74366	0.1264446	0.21420796	2.7663830	21	8 28.4	21.2
472693 2015 FY_{2}	18.0	X	286.96598	61.18354	97.00201	7.69301	0.1959321	0.28056948	2.3108714	21	—	—
472694 2015 FM_{5}	18.0	X	62.01555	76.81876	117.16596	24.36981	0.0727292	0.35632267	1.9704878	21	6 8.7	20.2
472695 2015 FD_{8}	16.8	X	46.45007	74.98929	144.79537	10.03553	0.0493711	0.21067804	2.7971980	21	6 18.7	20.5
472696 2015 FZ_{19}	17.1	X	217.94454	83.53428	81.91703	12.40105	0.1213208	0.24339273	2.5405689	21	11 7.4	20.8
472697 2015 FQ_{20}	16.5	X	164.38091	51.76960	91.02622	13.98153	0.1319493	0.21067215	2.7972501	21	8 12.2	21.1
472698 2015 FV_{22}	15.6	X	325.44896	194.32999	94.94717	16.52009	0.2353897	0.17322524	3.1870969	21	5 7.1	19.6
472699 2015 FC_{23}	15.8	X	317.10747	184.83043	139.07034	17.70090	0.2829352	0.18204919	3.0832605	21	5 28.9	19.8
472700 2015 FX_{24}	16.3	X	145.73139	121.22467	96.92445	14.51343	0.1288525	0.23835560	2.5762369	21	11 1.3	20.6
472701 2015 FS_{37}	17.6	X	151.45895	110.05204	98.40642	13.51462	0.1131899	0.22822752	2.6519014	21	10 24.9	22.0
472702 2015 FT_{38}	16.7	X	342.14990	275.75994	32.70329	4.53383	0.1573011	0.18745846	3.0236581	21	7 6.9	20.0
472703 2015 FY_{38}	15.9	X	310.30297	286.16771	29.37584	11.00997	0.1419929	0.17750321	3.1356812	21	5 22.6	20.1
472704 2015 FX_{39}	17.0	X	41.31412	273.00696	63.15428	2.71377	0.1333414	0.22684956	2.6626296	21	11 28.2	20.4
472705 2015 FX_{40}	16.5	X	114.82661	37.67400	199.37023	1.72929	0.0329560	0.22033476	2.7148596	21	10 8.9	20.3
472706 2015 FA_{42}	16.7	X	40.68013	121.62773	176.07503	5.15389	0.0893757	0.20958483	2.8069165	21	9 29.3	20.3
472707 2015 FH_{42}	17.0	X	270.06263	7.56606	83.63903	3.23663	0.0402164	0.22510428	2.6763745	21	10 14.4	20.4
472708 2015 FN_{42}	16.0	X	42.80872	197.14284	30.97408	11.47063	0.0662518	0.18296340	3.0729812	21	6 26.2	20.2
472709 2015 FT_{42}	16.0	X	332.17125	114.25032	206.40478	15.58815	0.2390361	0.18025034	3.1037399	21	6 23.2	19.6
472710 2015 FW_{42}	17.0	X	342.03352	179.99232	203.43884	9.30789	0.0264369	0.22366622	2.6878340	21	10 24.7	20.3
472711 2015 FM_{43}	16.5	X	103.75307	94.68249	69.13838	5.04511	0.0301535	0.18327540	3.0694926	21	6 19.3	20.8
472712 2015 FA_{45}	16.9	X	49.13797	25.20505	184.67369	7.58856	0.0616038	0.17967970	3.1103078	21	6 11.5	21.1
472713 2015 FD_{45}	16.5	X	41.47643	44.73922	191.93088	10.42473	0.0982111	0.18488436	3.0516585	21	7 8.0	20.6
472714 2015 FF_{45}	16.4	X	39.99604	165.42725	28.43540	3.80873	0.0768399	0.16876321	3.2430292	21	5 9.4	20.6
472715 2015 FJ_{45}	18.0	X	41.82823	9.13707	76.59957	4.81854	0.1317301	0.28447199	2.2896884	21	—	—
472716 2015 FD_{48}	17.3	X	142.51998	26.29082	165.06198	14.32634	0.1988268	0.22829022	2.6514159	21	9 22.1	21.8
472717 2015 FY_{48}	16.9	X	147.72764	280.05282	343.17842	15.30095	0.1499848	0.25931911	2.4354527	21	12 25.8	21.0
472718 2015 FB_{56}	16.3	X	65.45385	42.40159	230.79309	11.87220	0.1105785	0.23115460	2.6294668	21	10 2.8	20.1
472719 2015 FK_{67}	16.5	X	87.26022	12.53916	266.12163	11.51322	0.1069299	0.23150237	2.6268328	21	11 5.6	20.4
472720 2015 FE_{68}	16.4	X	90.59275	181.26157	63.52576	19.41406	0.1196547	0.21412399	2.7671062	21	10 9.9	20.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
472721 2015 FW_{68}	16.3	X	194.37407	25.91454	111.85651	14.09978	0.0596720	0.21790374	2.7350142	21	9 10.4	20.5
472722 2015 FN_{71}	15.6	X	332.22409	216.93721	13.77457	13.26127	0.1503153	0.15351869	3.4543146	21	3 15.2	20.1
472723 2015 FB_{72}	16.7	X	285.46075	255.60510	194.64196	7.78379	0.1217487	0.23806638	2.5783231	21	10 25.1	19.5
472724 2015 FJ_{72}	17.4	X	148.69332	228.61256	28.30556	5.94000	0.1250885	0.24167376	2.5526017	21	12 14.9	21.4
472725 2015 FP_{72}	17.1	X	13.59723	224.21453	74.32529	3.16906	0.0397124	0.20275412	2.8696103	21	8 16.5	20.7
472726 2015 FA_{73}	16.3	X	283.16820	273.91248	58.75220	5.77585	0.0946174	0.17558926	3.1584264	21	5 17.5	20.6
472727 2015 FR_{73}	16.6	X	105.62784	32.36150	216.10858	4.41195	0.1109038	0.21952493	2.7215323	21	10 19.8	20.7
472728 2015 FW_{74}	17.0	X	114.36743	61.67071	150.78004	3.05618	0.1250394	0.20936286	2.8089000	21	9 15.3	21.1
472729 2015 FY_{74}	16.5	X	317.68983	41.40723	38.29344	13.44897	0.1002679	0.24516096	2.5283383	21	12 3.9	19.3
472730 2015 FD_{75}	16.4	X	356.44315	293.86751	50.11941	7.17995	0.0286767	0.21357995	2.7718032	21	9 24.4	20.0
472731 2015 FL_{75}	16.8	X	67.66071	19.36080	192.53869	4.52223	0.1149321	0.18761580	3.0219674	21	7 16.5	20.8
472732 2015 FL_{76}	16.4	X	95.59473	14.28974	154.69381	5.59857	0.1095723	0.18458058	3.0550058	21	6 27.1	20.8
472733 2015 FP_{77}	16.0	X	291.06979	183.64633	189.57538	9.02617	0.0877822	0.19429725	2.9522850	21	7 18.6	20.1
472734 2015 FW_{77}	16.6	X	178.76737	157.00961	51.91939	3.17896	0.0398708	0.23730244	2.5838536	21	11 20.6	20.2
472735 2015 FF_{78}	16.1	X	2.02209	58.88705	204.78066	13.62686	0.1716532	0.17595476	3.1540509	21	6 11.7	19.8
472736 2015 FL_{78}	17.8	X	326.08487	349.68600	116.46369	2.10290	0.1459609	0.26250233	2.4157238	21	—	—
472737 2015 FM_{78}	17.5	X	330.56106	55.64508	64.81139	3.43876	0.1365338	0.27004795	2.3705118	21	—	—
472738 2015 FW_{78}	17.0	X	197.70224	156.22742	3.91766	2.74479	0.0149983	0.22505879	2.6767351	21	10 12.2	20.7
472739 2015 FS_{84}	17.0	X	65.11524	319.58684	303.25724	9.04858	0.2343987	0.21554795	2.7549060	21	10 3.3	21.0
472740 2015 FQ_{94}	16.8	X	355.95951	286.96474	319.38632	12.81947	0.2257731	0.17269970	3.1935593	21	4 26.0	20.4
472741 2015 FR_{94}	16.4	X	318.87622	350.70824	298.23953	9.61385	0.1881013	0.17501351	3.1653494	21	4 21.7	20.7
472742 2015 FA_{96}	17.0	X	259.57082	215.98050	307.30929	6.55952	0.0833848	0.26211124	2.4181262	21	—	—
472743 2015 FH_{96}	16.8	X	293.81450	218.32281	257.62816	6.30703	0.0703817	0.25807759	2.4432572	21	12 22.3	19.3
472744 2015 FB_{97}	17.0	X	58.87286	9.57909	277.25409	5.27061	0.0369913	0.22566826	2.6719135	21	9 30.7	20.7
472745 2015 FY_{97}	16.3	X	262.67812	107.54455	233.10124	8.83175	0.0865416	0.18069025	3.0987002	21	5 3.0	20.9
472746 2015 FV_{99}	17.6	X	330.94348	161.81553	330.93638	6.61187	0.0707500	0.28075403	2.3098585	21	—	—
472747 2015 FG_{101}	16.3	X	24.58724	6.22958	335.17351	11.52782	0.0785580	0.23267477	2.6180013	21	10 30.1	19.8
472748 2015 FM_{101}	17.3	X	197.53256	310.49676	268.09610	5.38147	0.0641890	0.25516984	2.4617833	21	12 26.2	20.5
472749 2015 FY_{101}	16.5	X	29.79173	250.84909	314.65782	8.65522	0.1708211	0.17567457	3.1574037	21	5 13.2	20.3
472750 2015 FZ_{101}	16.9	X	142.29582	334.36958	239.78893	8.34723	0.1275802	0.22850544	2.6497507	21	10 14.5	21.1
472751 2015 FH_{102}	17.0	X	121.22196	272.38243	308.43562	7.81174	0.0864189	0.22222509	2.6994420	21	9 26.6	21.1
472752 2015 FK_{103}	17.2	X	254.33524	307.80317	242.17225	7.44732	0.0681130	0.26839490	2.3802352	21	—	—
472753 2015 FP_{111}	16.8	X	182.24908	203.93321	355.33127	10.23095	0.0542168	0.24000867	2.5643941	21	11 8.2	20.6
472754 2015 FN_{112}	16.7	X	126.49905	213.81936	353.52186	6.39371	0.1286664	0.21765219	2.7371211	21	9 21.4	21.0
472755 2015 FO_{113}	17.5	X	317.17144	226.32385	292.89359	4.58234	0.0809653	0.28511643	2.2862368	21	—	—
472756 2015 FQ_{113}	17.5	X	257.84046	216.63079	305.86827	6.49194	0.0510144	0.25967125	2.4332504	21	—	—
472757 2015 FZ_{114}	17.2	X	189.56326	68.71899	225.18032	3.89065	0.1214446	0.27907035	2.3191398	21	—	—
472758 2015 FH_{115}	16.7	X	239.05094	71.12922	44.70771	9.14062	0.0316706	0.22575467	2.6712317	21	10 8.6	20.3
472759 2015 FX_{116}	18.0	X	16.09377	120.83585	342.36041	3.56872	0.0845391	0.28986433	2.2612029	21	—	—
472760 2015 FZ_{117}	10.6	X	30.73460	357.68045	154.93319	6.81832	0.4248440	0.00903085	22.8375959	21	5 5.5	22.7
472761 2015 FZ_{118}	16.7	X	161.54362	165.53715	71.10504	7.29514	0.1136740	0.25466454	2.4650387	21	12 5.4	20.3
472762 2015 FR_{119}	17.1	X	140.34010	41.26025	162.83662	14.40421	0.1853360	0.22957854	2.6414873	21	10 6.9	21.5
472763 2015 FV_{120}	16.4	X	106.97037	24.85694	186.30796	13.72174	0.1494584	0.21475856	2.7616527	21	9 6.2	20.6
472764 2015 FY_{120}	17.7	X	234.41791	117.04652	73.97255	5.62339	0.1259689	0.26482204	2.4015961	21	12 29.9	20.7
472765 2015 FP_{121}	15.5	X	280.80170	142.83237	172.96607	26.92909	0.1644375	0.17472841	3.1687918	21	4 17.2	20.4
472766 2015 FZ_{121}	17.5	X	234.63476	26.76328	120.11386	4.24242	0.0808572	0.24615619	2.5215188	21	11 6.9	20.8
472767 2015 FE_{122}	17.6	X	244.35972	44.45656	149.67156	3.02101	0.1150003	0.26722780	2.3871605	21	—	—
472768 2015 FX_{122}	17.0	X	119.01236	224.06569	341.37855	7.25188	0.2490607	0.21480516	2.7612533	21	9 19.0	21.7
472769 2015 FU_{123}	17.9	X	259.52799	199.64399	68.10612	4.00289	0.1555910	0.29776408	2.2210305	21	1 8.2	21.1
472770 2015 FB_{124}	17.0	X	134.77186	121.98972	135.16154	3.39410	0.1439261	0.23994461	2.5648505	21	12 3.1	21.0
472771 2015 FX_{133}	16.7	X	50.16284	139.16825	172.12471	6.37362	0.0648946	0.22403191	2.6849083	21	10 29.8	20.2
472772 2015 FY_{134}	17.0	X	130.56491	12.67794	167.04161	8.17991	0.1459147	0.21401742	2.7680248	21	8 22.2	21.4
472773 2015 FU_{136}	15.5	X	20.54281	220.53832	33.39579	15.38387	0.1025994	0.18645347	3.0345135	21	6 29.9	19.5
472774 2015 FS_{137}	17.5	X	193.37926	141.11780	126.14862	3.35191	0.2016419	0.26580020	2.3957005	21	—	—
472775 2015 FT_{138}	17.8	X	340.53366	101.65536	77.08932	3.24562	0.0367466	0.30114043	2.2043980	21	—	—
472776 2015 FG_{141}	17.1	X	47.97740	218.91615	135.15892	2.50454	0.1239837	0.24649906	2.5191800	21	—	—
472777 2015 FS_{142}	16.9	X	4.82177	105.88624	180.93836	1.28223	0.2324046	0.18848431	3.0126771	21	7 23.0	19.7
472778 2015 FS_{147}	15.9	X	353.60280	79.63521	172.73885	13.82342	0.2204823	0.17178908	3.2048350	21	5 10.1	19.4
472779 2015 FO_{148}	16.7	X	346.22354	164.67593	116.47590	4.82242	0.1741379	0.18097254	3.0954771	21	6 4.9	20.2
472780 2015 FQ_{148}	17.8	X	181.01144	319.17130	38.93058	7.24637	0.1532401	0.30606648	2.1806813	21	2 18.8	21.0
472781 2015 FZ_{148}	17.5	X	171.79496	99.24150	60.06527	5.92224	0.0991586	0.21993542	2.7181448	21	9 9.9	21.7
472782 2015 FV_{149}	17.7	X	55.75996	284.90673	139.43801	6.01885	0.1363430	0.28776070	2.2722096	21	—	—
472783 2015 FC_{150}	16.7	X	29.62228	193.86384	120.42654	4.10140	0.0894203	0.21808938	2.7334619	21	10 8.1	20.1
472784 2015 FD_{150}	16.7	X	117.53559	37.68872	166.71516	9.16209	0.0798665	0.21186308	2.7867576	21	9 3.6	20.6
472785 2015 FE_{150}	18.3	X	214.69649	150.59269	104.13265	3.91813	0.0409948	0.27564607	2.3383069	21	—	—
472786 2015 FF_{150}	17.6	X	263.25673	185.43137	46.39620	6.43496	0.1360981	0.28500495	2.2868330	21	—	—
472787 2015 FH_{150}	17.1	X	165.54755	199.09922	71.90004	4.49457	0.1219204	0.25721247	2.4487327	21	—	—
472788 2015 FO_{150}	17.2	X	147.42285	20.07026	179.37274	13.82088	0.0363741	0.22341077	2.6898825	21	10 1.4	21.0
472789 2015 FL_{151}	17.4	X	220.42735	181.48402	38.29796	6.42491	0.1101668	0.26234498	2.4166896	21	—	—
472790 2015 FS_{151}	17.8	X	344.14656	140.55664	33.76436	7.49756	0.0945818	0.30019699	2.2090141	21	—	—
472791 2015 FW_{151}	17.5	X	84.57850	108.53554	149.31102	1.40143	0.2025997	0.21383211	2.7696237	21	10 19.3	21.7
472792 2015 FC_{152}	16.4	X	60.64266	177.41207	4.84402	0.02953	0.1070470	0.17932484	3.1144098	21	5 28.2	20.3
472793 2015 FE_{152}	17.3	X	245.64820	318.66156	160.55927	1.89009	0.0243169	0.23289569	2.6163454	21	10 21.3	20.8
472794 2015 FQ_{152}	16.9	X	308.74019	253.37406	190.24706	10.59895	0.0147247	0.24407610	2.5358246	21	12 1.7	20.3
472795 2015 FS_{152}	15.9	X	65.63503	245.97354	20.77066	14.69307	0.0701993	0.21355441	2.7720242	21	9 24.0	19.7
472796 2015 FT_{152}	17.6	X	237.55456	54.76556	95.80174	2.05683	0.0834976	0.24451236	2.5328074	21	11 13.7	20.8
472797 2015 FT_{153}	17.2	X	97.11306	80.49064	173.09207	3.22724	0.0618537	0.22196414	2.7015572	21	10 12.7	21.1
472798 2015 FL_{156}	17.6	X	297.53458	150.30938	54.90754	6.37477	0.0444341	0.29154243	2.2525176	21	—	—
472799 2015 FX_{156}	17.3	X	354.18764	213.26276	148.27568	6.59180	0.0511652	0.22617398	2.6679292	21	10 16.3	20.6
472800 2015 FL_{157}	16.8	X	131.78944	46.94581	155.44062	7.84199	0.1067213	0.21684507	2.7439088	21	9 20.9	21.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
472801 2015 FM_{158}	16.2	X	2.10670	72.47774	175.69988	15.73852	0.1893408	0.17334310	3.1856521	21	5 23.6	19.9
472802 2015 FV_{159}	16.1	X	283.69355	227.29299	90.47867	5.51856	0.1202960	0.17009154	3.2261230	21	4 28.2	20.7
472803 2015 FQ_{160}	16.9	X	324.64020	256.28354	171.48948	7.50796	0.0163567	0.24219590	2.5489316	21	12 2.1	20.2
472804 2015 FR_{160}	15.8	X	343.07129	250.28207	41.15993	10.61796	0.1175869	0.18396896	3.0617732	21	6 15.9	19.6
472805 2015 FT_{160}	17.0	X	96.47529	150.93251	151.61606	5.57527	0.0328721	0.24293591	2.5437528	21	12 13.3	20.5
472806 2015 FW_{160}	16.9	X	347.59328	205.61523	147.77563	6.60336	0.0360407	0.21794718	2.7346508	21	9 23.3	20.3
472807 2015 FC_{161}	16.6	X	204.26190	32.41247	85.93455	5.07054	0.0492124	0.21300260	2.7768097	21	8 25.4	20.6
472808 2015 FE_{161}	16.2	X	35.55798	165.49777	40.99619	11.67208	0.1643727	0.17512296	3.1640305	21	5 25.8	20.0
472809 2015 FP_{161}	17.2	X	83.16654	178.10823	111.39259	5.12983	0.0650096	0.22992930	2.6388001	21	11 13.3	20.8
472810 2015 FT_{161}	16.7	X	82.46682	199.78619	87.29221	5.94849	0.1390111	0.22499614	2.6772320	21	11 16.9	20.6
472811 2015 FG_{162}	17.0	X	8.36668	208.98015	134.07415	6.44014	0.0362552	0.22224429	2.6992865	21	10 10.9	20.5
472812 2015 FK_{162}	16.8	X	139.24586	79.27280	124.32160	5.73403	0.0940520	0.21966777	2.7203523	21	10 1.0	20.9
472813 2015 FO_{162}	18.2	X	323.66338	10.40474	98.57257	5.63686	0.1076776	0.26481590	2.4016332	21	—	—
472814 2015 FS_{162}	16.6	X	315.41619	268.71516	100.38289	6.48923	0.0690644	0.21033462	2.8002419	21	8 25.7	20.1
472815 2015 FV_{162}	17.8	X	51.66696	351.58984	92.28533	6.50799	0.1017850	0.29168845	2.2517659	21	—	—
472816 2015 FD_{163}	16.9	X	102.57418	176.50508	64.37240	6.77249	0.0452137	0.21855009	2.7296191	21	10 3.4	20.7
472817 2015 FR_{166}	16.5	X	327.77091	270.98968	30.09088	9.98639	0.2186986	0.17692078	3.1425593	21	5 20.4	20.2
472818 2015 FW_{166}	16.2	X	287.98278	1.84627	26.68856	13.02628	0.0499886	0.20890407	2.8130111	21	8 18.5	20.2
472819 2015 FB_{169}	17.3	X	41.82800	125.98040	155.80378	3.92249	0.0617804	0.21162703	2.7888294	21	9 5.8	20.8
472820 2015 FM_{171}	17.2	X	351.22258	227.42374	113.11643	5.25011	0.0768739	0.21337488	2.7735789	21	9 12.0	20.6
472821 2015 FE_{173}	17.0	X	33.31136	300.32499	154.72272	5.96516	0.0672248	0.28871506	2.2671996	21	—	—
472822 2015 FP_{173}	17.7	X	298.64367	332.97374	147.84471	7.47321	0.0653690	0.25639239	2.4539514	21	—	—
472823 2015 FS_{173}	16.5	X	17.25246	104.37270	164.56396	14.32300	0.0431869	0.19178495	2.9780115	21	7 10.4	20.7
472824 2015 FT_{174}	17.2	X	90.00477	152.03613	137.89573	10.25915	0.0966437	0.22986850	2.6392655	21	11 26.3	21.2
472825 2015 FH_{175}	16.4	X	323.66122	207.10325	121.91616	10.64994	0.0697402	0.19195048	2.9762992	21	7 11.2	20.2
472826 2015 FH_{176}	16.2	X	11.39243	117.90701	162.05356	13.45030	0.1203584	0.19041249	2.9923043	21	7 19.9	19.9
472827 2015 FK_{176}	16.4	X	219.48839	263.31236	239.96795	10.79644	0.2142944	0.22663974	2.6642727	21	9 22.6	21.0
472828 2015 FS_{177}	16.8	X	46.21759	147.30966	146.86315	6.90038	0.0564916	0.22043474	2.7140387	21	9 30.7	20.4
472829 2015 FO_{182}	17.7	X	288.42360	84.21247	68.88690	4.92035	0.0759545	0.27142410	2.3624925	21	—	—
472830 2015 FL_{183}	18.5	X	318.05107	49.29722	142.52351	4.14637	0.1126261	0.29814004	2.2191629	21	—	—
472831 2015 FR_{184}	16.6	X	38.35926	267.45272	52.29878	6.00036	0.0558078	0.23153070	2.6266185	21	10 24.3	19.8
472832 2015 FU_{201}	17.9	X	258.59105	209.35767	333.78951	1.67494	0.1422983	0.27116430	2.3640013	21	—	—
472833 2015 FE_{214}	16.2	X	29.76201	149.82674	89.50717	10.22056	0.0675719	0.18538234	3.0461911	21	6 21.9	20.1
472834 2015 FX_{220}	17.0	X	126.22533	161.76997	87.57823	3.53643	0.1320917	0.23659848	2.5889764	21	11 15.1	20.9
472835 2015 FE_{224}	17.0	X	35.49355	257.66265	33.45651	6.95504	0.0998811	0.21537334	2.7563948	21	9 17.5	20.4
472836 2015 FB_{226}	18.3	X	77.96030	267.65195	153.87314	6.13215	0.0646787	0.29757992	2.2219467	21	—	—
472837 2015 FF_{231}	16.8	X	46.88348	213.00139	60.78729	3.98328	0.1548962	0.20874968	2.8143980	21	9 17.9	20.3
472838 2015 FT_{237}	17.4	X	267.93344	99.38659	125.75950	5.61471	0.0096923	0.29215914	2.2493467	21	—	—
472839 2015 FZ_{238}	16.4	X	80.05964	244.83062	38.51037	8.98110	0.0474063	0.23381819	2.6094593	21	10 29.4	19.9
472840 2015 FE_{239}	16.3	X	92.57066	222.24422	75.79372	6.06692	0.2076142	0.23781169	2.5801637	21	12 16.7	20.4
472841 2015 FN_{264}	17.6	X	173.34610	174.36482	118.63533	7.23872	0.1324159	0.27928630	2.3179441	21	—	—
472842 2015 FR_{271}	17.2	X	215.28081	100.13267	98.21411	5.93309	0.0535846	0.26048187	2.4281996	21	12 24.5	20.2
472843 2015 FX_{272}	16.3	X	56.73720	177.53150	134.54620	9.53931	0.1958572	0.23453808	2.6041168	21	11 29.2	20.1
472844 2015 FM_{275}	16.9	X	131.88007	205.52311	43.54546	10.27615	0.0761462	0.24313729	2.5423480	21	11 17.7	20.6
472845 2015 FE_{278}	16.3	X	41.14472	260.51646	17.52056	13.49297	0.1809262	0.20928655	2.8095828	21	9 20.8	19.8
472846 2015 FJ_{284}	16.4	X	2.29822	112.73076	146.77463	10.48522	0.1878885	0.17696116	3.1420812	21	6 7.9	19.9
472847 2015 FG_{285}	17.8	X	272.31213	269.81979	282.79964	2.63228	0.1028834	0.28616931	2.2806257	21	—	—
472848 2015 FY_{285}	15.7	X	319.77590	179.15609	146.08017	16.53087	0.2576997	0.17602692	3.1531889	21	6 7.3	19.7
472849 2015 FR_{286}	16.2	X	342.05995	291.36692	102.39030	15.32769	0.1133513	0.22690404	2.6622033	21	11 16.1	19.4
472850 2015 FD_{287}	17.3	X	187.07893	54.06982	115.57748	13.80889	0.1966042	0.22574614	2.6712989	21	10 7.9	22.0
472851 2015 FE_{287}	16.8	X	157.95519	135.54017	130.85764	18.25654	0.0964035	0.24451439	2.5327934	21	—	—
472852 2015 FB_{288}	17.0	X	87.54616	189.08028	57.96305	9.06387	0.2190095	0.21770542	2.7366750	21	10 13.9	21.3
472853 2015 FH_{290}	16.6	X	106.81652	46.89304	237.75524	9.60469	0.1297792	0.23684327	2.5871922	21	12 8.5	20.6
472854 2015 FV_{292}	16.2	X	97.34831	271.23910	14.99871	12.25554	0.1686371	0.23059343	2.6337311	21	11 30.4	20.6
472855 2015 FC_{293}	16.4	X	328.96996	330.34549	334.77572	2.78937	0.1946996	0.18138374	3.0907970	21	6 1.9	20.0
472856 2015 FH_{293}	15.8	X	7.60958	222.55415	47.44457	4.07265	0.0483152	0.18793920	3.0184997	21	6 29.1	19.7
472857 2015 FK_{293}	17.7	X	249.00404	273.36390	30.78814	8.52449	0.1380307	0.30432854	2.1889756	21	2 16.8	21.0
472858 2015 FE_{294}	17.4	X	213.60440	340.24218	165.09088	14.19827	0.1927430	0.23102338	2.6304624	21	9 27.9	21.5
472859 2015 FQ_{294}	17.0	X	175.83310	59.93748	141.37173	8.67172	0.0699850	0.23088909	2.6314822	21	11 8.2	21.0
472860 2015 FB_{295}	16.1	X	231.99098	285.28829	107.13498	10.90223	0.0456888	0.17926443	3.1151093	21	6 7.7	20.6
472861 2015 FE_{295}	16.0	X	136.64507	62.56485	73.09408	10.68066	0.0436878	0.18587259	3.0408323	21	6 25.3	20.3
472862 2015 FY_{295}	16.3	X	39.37122	73.15275	179.18357	11.41069	0.0510661	0.18922835	3.0047747	21	7 19.9	20.5
472863 2015 FD_{296}	16.9	X	55.08953	272.78110	122.07528	8.32100	0.0738997	0.26076331	2.4264521	21	—	—
472864 2015 FE_{296}	15.5	X	121.08192	43.44749	90.27501	11.45172	0.0424241	0.17689468	3.1428685	21	6 5.2	19.9
472865 2015 FJ_{296}	16.1	X	33.47367	222.90668	114.43635	10.34536	0.1533078	0.21839309	2.7309272	21	11 23.3	19.7
472866 2015 FZ_{296}	15.8	X	10.14021	126.33674	143.87475	11.26105	0.0234618	0.18462941	3.0544671	21	7 2.2	20.1
472867 2015 FB_{297}	16.9	X	13.38887	118.64649	139.99528	10.74763	0.1851476	0.17644546	3.1482005	21	6 28.6	20.4
472868 2015 FY_{298}	15.5	X	246.13158	117.33559	162.77837	11.12957	0.2036311	0.12483767	3.9649612	21	1 31.4	21.9
472869 2015 FB_{299}	16.4	X	342.56710	329.09609	89.43185	10.09501	0.1490729	0.23871061	2.5736821	21	12 21.6	19.1
472870 2015 FP_{301}	16.9	X	332.61318	291.36628	139.20664	12.32454	0.1537264	0.24454689	2.5325690	21	12 22.9	19.5
472871 2015 FW_{301}	15.9	X	57.07183	116.08822	86.07748	11.98010	0.0191903	0.17515223	3.1636780	21	6 7.4	20.2
472872 2015 FD_{302}	16.8	X	49.51433	89.38172	116.17997	11.91867	0.1999947	0.17496613	3.1659208	21	6 25.3	20.6
472873 2015 FJ_{302}	17.2	X	175.79630	81.28126	128.96102	11.47508	0.1580785	0.23194065	2.6235225	21	11 15.8	21.6
472874 2015 FO_{302}	16.3	X	14.55159	145.21389	140.92714	10.87199	0.0740065	0.18737052	3.0246041	21	7 31.7	20.2
472875 2015 FT_{302}	16.1	X	330.41031	161.76144	149.43662	11.31005	0.0405552	0.17931473	3.1145268	21	6 30.1	20.4
472876 2015 FY_{304}	15.5	X	334.37511	194.47429	115.33330	16.15406	0.0993967	0.17440672	3.1726871	21	6 29.8	19.5
472877 2015 FO_{307}	15.6	X	312.42524	196.34906	109.73464	9.31162	0.1021512	0.17747296	3.1360375	21	5 23.7	19.8
472878 2015 FW_{309}	17.1	X	105.61915	225.76265	51.69124	5.61370	0.0847964	0.23670837	2.5881750	21	11 24.8	20.7
472879 2015 FG_{310}	18.0	X	282.78953	90.33121	58.79220	5.15479	0.1421016	0.26671049	2.3902463	21	—	—
472880 2015 FZ_{313}	17.7	X	189.56647	209.53666	99.89376	7.72016	0.1294179	0.28538445	2.2848052	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
472881 2015 FK_{314}	17.4	X	102.05040	295.10790	104.69293	7.34936	0.1521951	0.29622783	2.2287027	21	1 2.6	19.4
472882 2015 FH_{315}	17.1	X	62.82214	164.32651	161.15804	12.12147	0.0618675	0.23977789	2.5660392	21	12 5.8	20.8
472883 2015 FR_{315}	16.6	X	349.70210	123.35500	150.53485	9.80211	0.1011097	0.18241417	3.0791464	21	6 6.9	20.5
472884 2015 FN_{317}	17.1	X	333.96573	233.90180	131.00216	7.21578	0.0048661	0.21990554	2.7183911	21	9 20.9	20.8
472885 2015 FA_{318}	17.5	X	127.75510	188.11501	131.50794	6.35917	0.0825937	0.26344742	2.4099429	21	—	—
472886 2015 FT_{318}	18.0	X	95.44378	296.87997	101.89525	6.82723	0.0909073	0.28973902	2.2618548	21	—	—
472887 2015 FS_{321}	16.2	X	343.64373	127.32232	145.04280	14.43223	0.2523772	0.17230395	3.1984475	21	5 14.8	19.8
472888 2015 FH_{323}	16.4	X	27.77215	267.41950	71.78467	12.17547	0.0798357	0.22994524	2.6386782	21	11 8.9	19.8
472889 2015 FQ_{323}	17.4	X	152.14103	96.48023	115.48511	8.49002	0.1394999	0.22926326	2.6439084	21	10 27.3	21.7
472890 2015 FT_{325}	17.0	X	80.04588	138.70563	122.95765	8.76577	0.1840716	0.21297216	2.7770743	21	10 20.5	21.2
472891 2015 FB_{326}	16.7	X	88.72970	229.75871	64.92195	10.05814	0.2097829	0.22828000	2.6514949	21	12 7.9	20.9
472892 2015 FO_{326}	16.7	X	19.60952	226.22741	95.51735	6.31323	0.0394734	0.21864765	2.7288071	21	9 29.0	20.3
472893 2015 FT_{326}	16.5	X	322.28008	205.50787	123.25041	7.44317	0.1466384	0.19187601	2.9770692	21	6 29.7	20.0
472894 2015 FC_{327}	17.3	X	190.17836	206.78321	104.60730	6.15288	0.1142737	0.28462647	2.2888598	21	—	—
472895 2015 FU_{327}	16.0	X	4.14118	222.33504	77.90438	8.79755	0.1459420	0.19984085	2.8974316	21	8 10.5	19.3
472896 2015 FA_{329}	17.0	X	6.43502	270.80216	142.39510	11.31412	0.0047916	0.25651952	2.4531406	21	—	—
472897 2015 FM_{331}	17.5	X	210.98488	193.76214	33.01395	2.79981	0.0817409	0.26307673	2.4122062	21	—	—
472898 2015 FD_{332}	16.3	X	223.35603	161.64718	21.62356	13.37277	0.1088620	0.24472521	2.5313386	21	12 1.1	20.1
472899 2015 FF_{334}	16.6	X	71.63393	61.86342	172.20920	9.94669	0.0663338	0.19209840	2.9747711	21	8 12.0	20.8
472900 2015 FD_{336}	16.5	X	7.07187	211.57234	185.18266	12.28154	0.1636376	0.23004831	2.6378900	21	—	—
472901 2015 FA_{338}	16.1	X	119.66351	316.63648	207.81731	13.46190	0.0753003	0.18181582	3.0858982	21	7 12.8	20.9
472902 2015 FS_{340}	15.9	X	32.27066	354.61818	257.90629	10.93033	0.0918437	0.18800422	3.0178037	21	7 13.9	19.8
472903 2015 FU_{340}	16.3	X	78.77304	302.67261	257.33607	9.73472	0.0927655	0.18585705	3.0410019	21	7 11.9	20.6
472904 2015 FK_{341}	17.2	X	230.83678	114.90692	103.89280	8.02896	0.0660801	0.27517938	2.3409499	21	—	—
472905 2015 FO_{341}	16.8	X	90.18886	177.05241	66.80463	4.95904	0.1523418	0.22187134	2.7023104	21	10 4.7	20.8
472906 2015 FR_{341}	15.8	X	107.14272	353.78386	261.59286	12.13330	0.1297291	0.22759351	2.6568241	21	10 30.0	20.0
472907 2015 FS_{341}	16.2	X	151.22782	318.56029	243.12865	12.27815	0.1017374	0.22799159	2.6537306	21	10 5.5	20.4
472908 2015 FL_{342}	16.6	X	140.91992	266.97124	308.61299	7.96153	0.1743967	0.22649221	2.6654295	21	10 14.2	21.1
472909 2015 FN_{343}	16.8	X	150.83037	230.43555	348.99043	10.97549	0.1250585	0.23016543	2.6369951	21	10 27.2	21.1
472910 2015 FA_{344}	17.1	X	145.30702	230.48105	0.83483	4.14231	0.1012905	0.23691236	2.5866891	21	11 9.1	21.1
472911 2015 FK_{344}	17.4	X	203.70640	331.52295	193.04355	14.00937	0.1966188	0.23848117	2.5753326	21	10 11.5	21.6
472912 2015 FQ_{344}	17.1	X	219.15297	210.60761	8.98047	10.93734	0.0917125	0.26046734	2.4282899	21	—	—
472913 2015 GR_{2}	16.0	X	278.10307	284.19089	61.56653	15.66319	0.1476585	0.17832773	3.1260083	21	5 20.4	20.4
472914 2015 GT_{2}	17.7	X	239.64839	58.63403	200.57022	4.38082	0.1476549	0.28935622	2.2638492	21	—	—
472915 2015 GU_{2}	17.6	X	316.88738	321.56785	177.85225	4.99695	0.0539967	0.27898148	2.3196322	21	—	—
472916 2015 GT_{3}	17.4	X	101.66182	285.19197	313.63514	0.94755	0.0233103	0.22038398	2.7144554	21	9 23.3	20.9
472917 2015 GZ_{3}	18.4	X	305.62153	16.38786	217.80593	2.33960	0.1364213	0.30539789	2.1838628	21	1 12.7	21.2
472918 2015 GX_{4}	16.7	X	86.42956	155.58596	42.58743	2.23309	0.0332949	0.19021211	2.9944054	21	7 12.6	20.9
472919 2015 GJ_{5}	16.1	X	302.11823	295.01279	44.29475	11.85065	0.0960724	0.18182752	3.0857658	21	6 18.9	20.3
472920 2015 GS_{7}	17.2	X	233.06637	11.11158	135.52113	12.79915	0.0365141	0.23974771	2.5662546	21	11 13.1	20.9
472921 2015 GS_{9}	16.9	X	128.28825	140.20670	112.07767	13.03110	0.0980801	0.23998309	2.5645763	21	11 22.9	20.9
472922 2015 GF_{10}	16.7	X	163.32834	96.33191	118.74088	13.66145	0.1460325	0.23921449	2.5700667	21	11 12.7	21.0
472923 2015 GM_{16}	17.0	X	350.38845	261.04629	124.66772	11.29969	0.0650339	0.23091862	2.6312579	21	11 15.5	20.4
472924 2015 GW_{16}	17.6	X	44.64682	53.46797	203.74552	0.38642	0.1546994	0.19913750	2.9042501	21	8 19.9	21.1
472925 2015 GM_{18}	16.6	X	9.74244	158.17819	122.80170	11.13683	0.0342322	0.19119877	2.9840951	21	7 16.2	20.4
472926 2015 GS_{18}	17.1	X	23.11669	4.06089	7.25244	5.55883	0.0927131	0.24696822	2.5159886	21	12 16.9	20.2
472927 2015 GC_{20}	17.4	X	295.19119	124.43308	30.88499	7.06848	0.0721663	0.27194901	2.3594515	21	—	—
472928 2015 GM_{20}	17.7	X	324.27902	59.27052	77.97606	2.38185	0.1566226	0.28104999	2.3082367	21	—	—
472929 2015 GO_{20}	17.7	X	133.74674	183.00346	178.17013	7.20448	0.1218566	0.28763683	2.2728619	21	—	—
472930 2015 GS_{20}	17.4	X	112.49450	56.59687	183.59078	10.41352	0.1064595	0.22392973	2.6857250	21	10 18.6	21.4
472931 2015 GZ_{20}	17.2	X	72.73639	147.55965	167.38483	2.59670	0.0478384	0.24052361	2.5607327	21	12 1.4	20.7
472932 2015 GC_{22}	17.0	X	98.02536	152.63590	98.20491	3.28985	0.0636297	0.21886064	2.7270364	21	10 11.2	20.9
472933 2015 GL_{23}	15.9	X	67.21148	35.43925	171.44321	17.10090	0.1289664	0.18347638	3.0672507	21	7 10.9	20.3
472934 2015 GT_{23}	16.0	X	12.86205	170.66347	92.89810	17.55994	0.1626148	0.17727619	3.1383577	21	7 2.9	19.5
472935 2015 GZ_{23}	16.4	X	87.04433	197.12626	103.36985	15.54144	0.0560411	0.22830414	2.6513081	21	12 1.7	20.3
472936 2015 GB_{24}	17.2	X	172.30070	46.49383	125.79913	10.41591	0.2469015	0.22296467	2.6934692	21	9 25.3	22.0
472937 2015 GU_{24}	16.6	X	235.63224	303.42370	168.12264	11.77580	0.0352690	0.22125909	2.7072933	21	9 25.7	20.2
472938 2015 GG_{25}	16.3	X	340.15806	170.82839	151.95307	12.55522	0.0480975	0.19694723	2.9257427	21	7 28.3	20.1
472939 2015 GQ_{25}	16.9	X	115.87423	161.51323	86.36680	15.39129	0.1157637	0.22283738	2.6944948	21	11 5.6	21.2
472940 2015 GV_{25}	16.7	X	181.55989	39.80370	92.68062	10.85559	0.2004366	0.21199965	2.7855606	21	8 14.4	21.5
472941 2015 GA_{26}	16.3	X	12.68729	149.52463	106.94165	11.84624	0.1769706	0.17804798	3.1292818	21	6 23.7	19.8
472942 2015 GU_{26}	16.3	X	98.88082	138.58228	103.79242	14.32168	0.1001995	0.21863518	2.7289109	21	10 11.4	20.6
472943 2015 GL_{27}	17.7	X	256.03320	31.65450	164.20527	2.73794	0.1687244	0.26845067	2.3799056	21	—	—
472944 2015 GH_{28}	16.5	X	63.37816	274.46304	282.30951	0.54972	0.1935972	0.18578724	3.0417636	21	7 3.6	20.5
472945 2015 GV_{28}	16.8	X	80.13346	77.69964	190.58848	13.89423	0.1770300	0.22004233	2.7172644	21	10 26.3	20.8
472946 2015 GD_{29}	16.7	X	30.63434	288.08350	19.54478	9.19882	0.2170922	0.21194040	2.7860798	21	10 16.3	19.8
472947 2015 GV_{29}	16.8	X	18.91438	224.89611	21.38673	8.39355	0.1611254	0.18275224	3.0753478	21	6 19.8	20.3
472948 2015 GE_{30}	18.1	X	200.21921	280.33638	350.53686	2.66361	0.1754534	0.27043312	2.3682605	21	—	—
472949 2015 GV_{30}	17.3	X	110.44454	69.20955	181.65777	2.68819	0.1355092	0.22535875	2.6743594	21	10 31.4	21.4
472950 2015 GC_{31}	16.8	X	65.76465	254.22026	37.01137	4.16723	0.1816925	0.21910115	2.7250404	21	11 6.8	20.6
472951 2015 GE_{31}	16.8	X	66.86620	242.56698	26.60086	9.42472	0.1900139	0.21027489	2.8007721	21	10 12.5	20.8
472952 2015 GV_{31}	18.0	X	25.20768	281.39373	200.00489	5.97914	0.1274854	0.30010463	2.2094673	21	—	—
472953 2015 GW_{31}	16.9	X	33.33986	255.21509	19.28921	0.28660	0.1230750	0.20089581	2.8872793	21	8 21.3	20.4
472954 2015 GE_{32}	17.0	X	131.26157	355.03201	203.25971	7.11230	0.1409629	0.21834144	2.7313578	21	9 14.3	21.3
472955 2015 GN_{32}	16.4	X	10.63549	249.94040	93.73869	13.68162	0.2199866	0.21671571	2.7450006	21	11 7.5	19.5
472956 2015 GJ_{33}	16.9	X	250.21122	330.73931	160.14171	11.63312	0.1283114	0.24141164	2.5544490	21	10 31.1	20.4
472957 2015 GQ_{33}	16.8	X	82.02222	252.24626	91.26940	7.60849	0.0214661	0.25373571	2.4710507	21	—	—
472958 2015 GF_{34}	17.2	X	38.00951	33.52657	62.68720	11.39549	0.0354745	0.28698387	2.2763082	21	—	—
472959 2015 GK_{34}	16.4	X	188.56851	78.78156	93.74748	12.51368	0.1263257	0.22592497	2.6698891	21	10 16.4	20.7
472960 2015 GP_{37}	16.9	X	3.19246	242.20837	108.44934	3.77731	0.0982330	0.22441791	2.6818287	21	10 18.1	20.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
472961 2015 GS_{37}	16.8	X	89.63567	132.87724	104.61079	5.00659	0.0422182	0.21341423	2.7732380	21	9 10.8	20.6
472962 2015 GK_{38}	16.4	X	3.74367	158.83730	113.28888	6.54163	0.0997392	0.18733946	3.0249384	21	6 26.5	19.9
472963 2015 GL_{38}	17.0	X	325.18742	259.19664	168.03237	13.83508	0.0232855	0.24496898	2.5296590	21	12 3.6	20.5
472964 2015 GA_{39}	15.7	X	108.35872	1.88800	81.43613	10.36702	0.0835634	0.16005004	3.3596874	21	3 31.2	20.6
472965 2015 GE_{39}	16.5	X	32.01761	266.04018	91.03636	8.51550	0.2184061	0.23763527	2.5814404	21	12 27.9	19.8
472966 2015 GG_{39}	16.4	X	79.51212	225.42093	92.39398	7.38124	0.1844566	0.23698245	2.5861791	21	12 26.6	20.3
472967 2015 GL_{39}	17.7	X	354.08167	6.85462	97.68088	7.67848	0.0596377	0.27543385	2.3395078	21	—	—
472968 2015 GS_{40}	17.6	X	208.75984	177.29037	89.05205	7.04100	0.0874476	0.27459947	2.3442446	21	—	—
472969 2015 GA_{41}	16.6	X	264.45728	324.21548	121.12578	9.21469	0.0568479	0.22658423	2.6647078	21	9 29.4	20.2
472970 2015 GM_{41}	16.5	X	66.15911	82.53102	164.62580	15.63989	0.1081015	0.20380257	2.8597602	21	8 30.0	20.4
472971 2015 GX_{42}	17.3	X	293.72018	46.42144	86.18028	6.24282	0.0780743	0.26012066	2.4304470	21	—	—
472972 2015 GE_{44}	17.2	X	63.60704	214.77433	75.60539	4.64165	0.1748276	0.21815173	2.7329411	21	11 3.6	20.9
472973 2015 GF_{44}	16.0	X	325.18937	233.19049	60.47912	8.88804	0.1105068	0.18003196	3.1062493	21	5 22.7	20.0
472974 2015 GO_{44}	17.1	X	179.32399	53.21820	93.61494	4.37520	0.0355962	0.21502265	2.7593910	21	9 2.1	21.1
472975 2015 GD_{50}	16.7	X	39.36764	180.89927	126.77628	9.08944	0.2113257	0.21172488	2.7879702	21	11 1.9	20.4
472976 2015 GG_{50}	16.4	X	81.99767	164.79815	101.54199	5.23989	0.0520651	0.22162965	2.7042747	21	10 11.4	20.2
472977 2015 HX_{1}	16.6	X	280.03626	337.58088	101.51213	7.23036	0.0157185	0.22517946	2.6757787	21	10 17.5	20.2
472978 2015 HO_{3}	16.3	X	49.96332	337.54151	322.09231	13.11017	0.0150598	0.22886642	2.6469638	21	9 29.1	20.1
472979 2015 HP_{3}	16.7	X	97.33067	19.79683	241.05167	11.46111	0.1672034	0.22585885	2.6704102	21	10 31.4	20.9
472980 2015 HP_{4}	15.6	X	349.94846	314.99791	315.00871	9.67260	0.0884050	0.18637284	3.0353886	21	5 30.5	19.5
472981 2015 HZ_{8}	17.2	X	132.30834	320.35804	259.77400	2.83230	0.1044634	0.22441395	2.6818603	21	10 11.6	21.4
472982 2015 HP_{11}	16.0	X	61.71849	143.29824	53.86432	11.89401	0.1690848	0.17691973	3.1425718	21	6 27.5	20.2
472983 2015 HV_{12}	16.5	X	60.72711	20.82155	207.42289	0.79316	0.1024445	0.19034017	2.9930622	21	7 27.3	20.3
472984 2015 HZ_{12}	16.3	X	113.46177	349.85071	263.41214	7.73631	0.1093891	0.22760931	2.6567011	21	11 2.3	20.3
472985 2015 HB_{13}	16.8	X	43.88813	174.79159	72.43468	12.11045	0.0732437	0.19265505	2.9690382	21	7 26.5	20.8
472986 2015 HT_{14}	16.3	X	140.93428	329.53419	179.87773	10.16189	0.0427207	0.18825933	3.0150768	21	7 16.7	20.8
472987 2015 HU_{14}	16.6	X	75.67203	248.77582	7.23199	8.73610	0.1282141	0.21043693	2.7993342	21	9 27.2	20.4
472988 2015 HO_{15}	15.5	X	214.34258	306.12084	97.66397	9.82356	0.0268467	0.17991707	3.1075716	21	6 2.4	20.0
472989 2015 HL_{17}	18.1	X	277.63097	132.47847	62.14989	1.83008	0.1433453	0.27826629	2.3236051	21	—	—
472990 2015 HM_{20}	17.3	X	319.49538	84.84885	40.27525	6.15476	0.0918508	0.26867346	2.3785897	21	—	—
472991 2015 HG_{21}	17.8	X	274.32440	58.52727	76.80981	2.98704	0.1601698	0.25582439	2.4575824	21	12 6.2	20.3
472992 2015 HJ_{21}	18.1	X	230.94275	91.74473	149.18354	2.75725	0.1492972	0.27162808	2.3613096	21	—	—
472993 2015 HT_{21}	16.7	X	244.97553	281.66051	181.06628	9.34959	0.0886710	0.22629307	2.6669930	21	9 17.3	20.3
472994 2015 HJ_{22}	17.1	X	133.38620	90.02818	95.60537	4.87295	0.1301819	0.21149953	2.7899501	21	9 3.4	21.4
472995 2015 HR_{23}	16.6	X	66.76272	204.49748	92.40010	5.18411	0.0196826	0.22707710	2.6608506	21	10 27.1	20.1
472996 2015 HH_{24}	16.1	X	328.98852	117.15769	163.95374	5.35632	0.0371124	0.17596541	3.1539237	21	5 21.7	20.4
472997 2015 HU_{28}	16.1	X	337.70558	136.81292	157.50038	9.17910	0.0369936	0.18506520	3.0496702	21	6 18.9	20.3
472998 2015 HD_{29}	16.8	X	195.47356	82.50871	69.58579	5.02275	0.1302373	0.22783923	2.6549136	21	9 23.9	20.9
472999 2015 HL_{29}	16.7	X	263.83743	296.21486	188.52112	10.45726	0.0737471	0.24283941	2.5444267	21	11 17.4	20.0
473000 2015 HU_{29}	16.7	X	255.79295	307.87159	171.03962	6.04325	0.0595243	0.23582665	2.5946222	21	10 30.5	20.1
473001 2015 HZ_{34}	15.8	X	339.32713	188.25541	93.80326	5.66807	0.1369642	0.17439592	3.1728181	21	5 28.3	19.5
473002 2015 HK_{35}	15.6	X	71.03035	335.31491	185.52885	13.04571	0.0726649	0.16975694	3.2303607	21	5 13.1	20.1
473003 2015 HR_{36}	16.4	X	332.16806	253.82381	176.08287	12.31949	0.1193551	0.24596655	2.5228147	21	12 19.2	19.3
473004 2015 HH_{38}	16.9	X	82.62726	160.86049	144.11808	8.90755	0.1181478	0.22974703	2.6401957	21	12 7.8	20.9
473005 2015 HO_{38}	16.6	X	244.17087	340.17588	122.64426	9.56541	0.1478269	0.22460191	2.6803639	21	9 11.8	20.5
473006 2015 HQ_{38}	17.2	X	225.88545	15.34129	145.01071	8.92413	0.1670578	0.24133628	2.5549808	21	11 3.4	21.0
473007 2015 HC_{40}	17.1	X	309.13985	2.99236	116.86861	8.14508	0.1133869	0.25737812	2.4476819	21	—	—
473008 2015 HE_{40}	16.1	X	349.76016	161.59575	145.36997	9.63043	0.0650246	0.18923735	3.0046794	21	7 21.0	20.0
473009 2015 HV_{40}	16.3	X	322.15933	116.27776	162.40646	4.37142	0.0844908	0.16840692	3.2476018	21	5 4.4	20.7
473010 2015 HX_{40}	16.8	X	229.15407	17.14553	108.80381	3.13183	0.1004868	0.22728588	2.6592209	21	9 28.9	20.6
473011 2015 HC_{42}	17.5	X	233.36367	202.75868	18.64197	2.30035	0.1374680	0.27143443	2.3624326	21	—	—
473012 2015 HJ_{42}	16.5	X	4.56192	182.62801	77.75053	2.10797	0.1923865	0.17584431	3.1553716	21	6 12.3	19.8
473013 2015 HM_{42}	16.9	X	318.82598	130.57879	30.28641	24.77562	0.2150985	0.28886100	2.2664359	21	—	—
473014 2015 HQ_{42}	17.0	X	189.35808	183.05252	74.28010	3.56377	0.1649814	0.25627533	2.4546987	21	—	—
473015 2015 HV_{44}	17.5	X	204.59932	102.38206	158.74036	6.23164	0.1594629	0.26848808	2.3796845	21	—	—
473016 2015 HD_{55}	16.7	X	25.06550	235.82802	157.51304	8.32742	0.1288598	0.25267907	2.4779347	21	—	—
473017 2015 HX_{55}	16.0	X	3.60949	46.26426	252.99731	12.62871	0.2004700	0.18449139	3.0559903	21	8 1.1	19.4
473018 2015 HZ_{55}	16.1	X	307.91806	76.47347	269.77402	8.52159	0.0914056	0.18545427	3.0454033	21	7 7.6	20.0
473019 2015 HN_{56}	15.9	X	18.96875	18.06940	270.38759	9.34347	0.0552842	0.19253151	2.9703081	21	8 6.7	19.8
473020 2015 HT_{56}	16.7	X	6.18588	26.44428	328.40859	5.77378	0.0955651	0.21415686	2.7668230	21	10 21.7	20.2
473021 2015 HC_{57}	16.5	X	274.98386	82.78028	281.18926	4.96777	0.1219476	0.17793934	3.1305554	21	6 11.9	21.0
473022 2015 HS_{59}	15.9	X	298.79558	58.36879	296.34621	8.18891	0.0369223	0.18507868	3.0495222	21	7 14.1	20.1
473023 2015 HJ_{60}	16.1	X	93.05241	50.36549	146.14806	11.40144	0.0641902	0.18241524	3.0791344	21	7 22.2	20.6
473024 2015 HL_{61}	16.8	X	222.27955	110.81486	29.72344	9.26990	0.1486900	0.23442148	2.6049803	21	10 5.3	20.6
473025 2015 HX_{61}	16.7	X	22.73143	252.18495	100.12433	10.08432	0.1157492	0.22886810	2.6469508	21	11 23.4	20.0
473026 2015 HF_{62}	16.2	X	191.90755	74.80471	87.88065	11.55117	0.1180128	0.21889818	2.7267247	21	10 7.2	20.6
473027 2015 HB_{64}	16.8	X	52.98433	250.80336	29.32657	3.96222	0.0627192	0.20932120	2.8092727	21	9 20.2	20.5
473028 2015 HE_{64}	16.8	X	321.23390	218.65545	209.25274	4.98736	0.1070468	0.24051607	2.5607861	21	11 25.4	19.4
473029 2015 HH_{68}	16.8	X	4.32805	319.88322	39.39834	6.49290	0.0506906	0.22358851	2.6884568	21	10 25.7	20.0
473030 2015 HB_{69}	16.2	X	315.83711	286.69863	39.21136	13.54184	0.1847698	0.17980506	3.1088620	21	6 7.5	20.2
473031 2015 HR_{69}	16.8	X	42.38723	19.84573	204.94821	2.36002	0.1419757	0.18100494	3.0951077	21	6 30.4	20.6
473032 2015 HS_{71}	16.1	X	6.02071	281.77264	45.83411	11.10749	0.1915573	0.20270162	2.8701058	21	9 29.3	19.2
473033 2015 HG_{72}	17.5	X	296.62847	311.75322	158.73214	2.05897	0.0341359	0.24608667	2.5219937	21	12 18.7	20.6
473034 2015 HE_{73}	16.4	X	301.50794	256.70332	67.04599	2.78820	0.1627417	0.17337120	3.1853079	21	5 20.2	20.6
473035 2015 HW_{73}	16.9	X	18.52712	196.72832	98.64503	3.08854	0.0875345	0.19828941	2.9125252	21	8 22.9	20.5
473036 2015 HS_{74}	17.8	X	9.04018	322.65057	139.91130	2.11055	0.0574342	0.27484356	2.3428564	21	—	—
473037 2015 HD_{75}	16.3	X	342.04092	255.82650	37.29208	8.99356	0.0842165	0.18135104	3.0911685	21	6 19.5	20.3
473038 2015 HG_{75}	16.6	X	339.89967	207.21721	210.62636	4.49782	0.0613067	0.24079674	2.5587959	21	12 10.7	19.7
473039 2015 HX_{76}	17.3	X	3.53198	158.63247	190.24973	1.39386	0.0316002	0.21782980	2.7356331	21	10 8.1	20.8
473040 2015 HK_{77}	16.9	X	226.25005	98.17486	21.33298	5.70942	0.1972569	0.22670847	2.6637342	21	9 7.3	21.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
473041 2015 HA_{79}	16.7	X	38.18468	344.46000	244.12885	3.31361	0.1811534	0.17987707	3.1080322	21	7 3.6	20.4
473042 2015 HU_{79}	17.1	X	58.10344	353.81841	22.80414	3.44739	0.1330178	0.25282797	2.4769618	21	—	—
473043 2015 HM_{80}	17.4	X	320.16708	47.46051	15.04115	2.28204	0.0155999	0.23270506	2.6177741	21	11 15.5	20.7
473044 2015 HW_{80}	16.5	X	313.51676	120.26370	226.01631	9.94221	0.1455931	0.18912064	3.0059155	21	7 7.5	20.3
473045 2015 HM_{81}	16.9	X	297.64312	354.93287	33.07358	2.43242	0.0717137	0.20573754	2.8418012	21	8 22.9	20.6
473046 2015 HQ_{81}	17.7	X	261.11043	210.40350	24.58973	2.75544	0.2119112	0.27946601	2.3169503	21	—	—
473047 2015 HU_{81}	16.3	X	21.44055	353.99416	225.96369	4.12359	0.0625529	0.16940108	3.2348832	21	5 15.7	20.6
473048 2015 HH_{82}	16.5	X	331.33958	275.07781	49.86780	4.00487	0.1572585	0.18585461	3.0410285	21	7 9.8	20.0
473049 2015 HY_{83}	15.9	X	19.08345	43.54753	199.87440	11.03581	0.0225620	0.17902178	3.1179236	21	6 9.9	20.3
473050 2015 HB_{84}	17.2	X	69.52902	49.76095	145.99898	2.31159	0.2055877	0.18391760	3.0623432	21	7 12.5	21.3
473051 2015 HL_{84}	16.9	X	302.88093	1.63547	71.41141	4.07950	0.0478912	0.23099886	2.6306485	21	11 4.7	20.0
473052 2015 HR_{85}	16.8	X	284.45566	41.82431	51.93733	11.52129	0.0939939	0.23527300	2.5986911	21	11 1.5	20.0
473053 2015 HG_{86}	16.1	X	262.56506	313.27757	59.97970	11.68043	0.0652922	0.18422190	3.0589700	21	6 15.5	20.4
473054 2015 HK_{86}	18.2	X	296.49510	21.68136	175.52965	4.77383	0.0931724	0.28300978	2.2975682	21	—	—
473055 2015 HM_{87}	17.1	X	150.36184	47.35356	182.29349	7.34681	0.0622136	0.23026082	2.6362668	21	11 14.0	20.9
473056 2015 HR_{88}	16.0	X	7.45500	194.35637	52.74204	10.96843	0.0953705	0.17280403	3.1922739	21	5 29.1	19.9
473057 2015 HU_{88}	16.3	X	315.38441	121.05873	210.12862	15.54330	0.1613496	0.18062424	3.0994551	21	6 18.7	20.4
473058 2015 HQ_{90}	15.4	X	244.14425	93.87390	179.73005	3.72794	0.1793944	0.12460489	3.9698978	21	1 24.8	21.7
473059 2015 HZ_{90}	16.4	X	203.11453	293.48333	212.82226	10.87393	0.1362074	0.22245254	2.6976015	21	9 18.1	20.7
473060 2015 HB_{91}	16.6	X	51.57476	120.62148	94.57030	2.32920	0.1077438	0.17998750	3.1067608	21	6 27.5	20.5
473061 2015 HO_{91}	16.4	X	267.13146	59.06238	46.14379	10.22391	0.1169723	0.23126964	2.6285947	21	10 19.1	19.7
473062 2015 HR_{91}	16.4	X	333.83830	200.71358	144.96921	2.73206	0.1075989	0.19727476	2.9225035	21	8 16.5	19.7
473063 2015 HR_{92}	17.2	X	92.55917	117.21708	69.98419	4.97762	0.1117419	0.18823104	3.0153789	21	7 17.9	21.4
473064 2015 HG_{93}	16.9	X	314.84038	7.78999	57.56708	8.80431	0.0439196	0.23063689	2.6334002	21	11 11.7	20.3
473065 2015 HQ_{93}	16.8	X	16.27103	251.64059	102.60460	4.51908	0.1166363	0.22057102	2.7129206	21	11 13.6	20.0
473066 2015 HC_{94}	16.3	X	27.91808	200.84946	150.41006	5.62283	0.0752339	0.22617690	2.6679061	21	11 22.3	19.7
473067 2015 HD_{94}	15.4	X	249.27301	246.74876	82.11036	8.92698	0.0593744	0.15512124	3.4304824	21	4 13.3	20.5
473068 2015 HF_{94}	17.4	X	111.32746	185.96164	140.73248	4.55530	0.0983323	0.25018733	2.4943602	21	—	—
473069 2015 HP_{94}	16.1	X	47.21221	132.13736	66.59224	11.31534	0.1526098	0.17287138	3.1914446	21	6 4.5	20.1
473070 2015 HQ_{94}	17.9	X	307.03434	69.65350	76.39558	7.27710	0.1221262	0.26767243	2.3845163	21	—	—
473071 2015 HZ_{95}	17.3	X	89.94179	272.27268	88.29725	4.93017	0.1215240	0.25671975	2.4518648	21	—	—
473072 2015 HX_{96}	18.2	X	137.78028	215.23493	194.00850	1.37088	0.1464838	0.30843859	2.1694863	21	3 5.8	20.9
473073 2015 HV_{99}	16.5	X	155.48194	69.25386	87.12869	6.87575	0.0174185	0.20112725	2.8850639	21	8 15.3	20.6
473074 2015 HD_{102}	17.0	X	47.81101	259.43347	341.97711	1.03038	0.1196710	0.18848694	3.0126490	21	7 28.9	20.7
473075 2015 HV_{104}	17.8	X	358.38140	30.03243	148.65452	6.63368	0.0509304	0.30400470	2.1905299	21	1 22.1	20.2
473076 2015 HG_{105}	17.4	X	196.23087	108.50021	87.42433	10.45292	0.0154063	0.23961276	2.5672180	21	11 29.4	20.9
473077 2015 HE_{107}	16.6	X	138.60748	98.46200	122.83770	12.19500	0.0228200	0.22421529	2.6834442	21	10 23.3	20.6
473078 2015 HQ_{114}	16.5	X	326.18453	242.18460	139.18159	9.60172	0.1569696	0.21763760	2.7372435	21	9 24.6	19.4
473079 2015 HC_{115}	16.6	X	68.04880	189.81312	124.06489	9.62156	0.2119006	0.22260459	2.6963730	21	12 12.3	20.7
473080 2015 HP_{120}	13.6	X	330.41536	222.26782	209.02999	10.33680	0.0720401	0.08443617	5.1457701	21	11 13.1	20.1
473081 2015 HX_{123}	17.1	X	67.95604	114.93306	188.13500	2.54719	0.1871788	0.21810357	2.7333434	21	11 24.9	21.0
473082 2015 HF_{138}	16.9	X	55.93671	222.07500	105.86207	4.18501	0.0635479	0.22900483	2.6458971	21	11 27.4	20.4
473083 2015 HG_{144}	16.4	X	84.25500	331.30036	235.32975	5.42978	0.1646995	0.19558566	2.9393054	21	8 6.7	20.6
473084 2015 HN_{145}	17.5	X	33.04206	138.11302	2.33663	6.71386	0.0150704	0.29984659	2.2107348	21	1 27.1	20.0
473085 2015 HQ_{148}	16.6	X	182.78193	106.65054	37.06203	13.93764	0.1482712	0.21643838	2.7473450	21	9 4.2	21.2
473086 2015 HK_{149}	16.7	X	159.26674	278.60748	241.52369	7.49949	0.0575597	0.20503695	2.8482709	21	8 20.5	21.1
473087 2015 HL_{149}	17.2	X	246.33157	121.34668	355.24578	4.22880	0.0912801	0.22656321	2.6648726	21	10 6.5	20.8
473088 2015 HT_{149}	16.4	X	59.01885	235.91243	325.32231	3.18250	0.0868181	0.17755525	3.1350685	21	6 16.9	20.5
473089 2015 HN_{150}	15.9	X	322.58112	76.45246	225.55465	21.93821	0.0852355	0.17370784	3.1811912	21	6 1.9	20.2
473090 2015 HC_{151}	16.6	X	166.40668	118.01014	11.53130	9.38410	0.0387479	0.19327074	2.9627294	21	7 26.1	21.0
473091 2015 HU_{153}	16.0	X	227.05007	251.39418	183.40150	10.43962	0.1176522	0.19207608	2.9750015	21	7 15.9	20.7
473092 2015 HU_{154}	16.3	X	45.52622	201.97329	109.73909	7.00880	0.0895980	0.21172302	2.7879865	21	10 27.5	20.0
473093 2015 HZ_{154}	16.5	X	143.34582	249.39705	338.93012	14.98802	0.0802401	0.23413997	2.6070679	21	10 27.9	20.7
473094 2015 HA_{162}	16.4	X	1.46429	57.80186	238.42936	2.90314	0.1073691	0.18945471	3.0023808	21	7 25.2	19.9
473095 2015 HJ_{162}	16.5	X	359.72822	317.40808	33.56108	6.41637	0.0917394	0.21397182	2.7684180	21	10 9.8	19.8
473096 2015 HU_{162}	16.6	X	2.45350	58.17502	209.94499	2.53507	0.0689235	0.17978056	3.1091444	21	6 18.9	20.5
473097 2015 HV_{165}	15.9	X	309.76098	234.98122	87.69536	2.63341	0.1822844	0.17229560	3.1985509	21	5 27.9	19.9
473098 2015 HW_{165}	16.4	X	89.86761	350.06559	201.45884	7.29343	0.0405212	0.18638569	3.0352491	21	7 7.9	20.7
473099 2015 HG_{167}	17.4	X	119.70929	193.62582	138.94591	4.39041	0.1186947	0.25609465	2.4558531	21	—	—
473100 2015 HN_{167}	16.8	X	62.11427	99.06323	129.62358	4.51574	0.1442684	0.18929671	3.0040513	21	8 5.6	20.6
473101 2015 HT_{169}	16.4	X	332.07359	258.28073	36.22136	3.56845	0.1008884	0.17697621	3.1419031	21	6 4.5	20.5
473102 2015 HV_{170}	17.1	X	173.76474	153.31832	63.72529	11.60971	0.0727016	0.23310683	2.6147653	21	11 22.8	20.7
473103 2015 HW_{170}	15.8	X	205.00939	239.92446	185.42943	9.40989	0.0658857	0.17983411	3.1085272	21	6 15.8	20.6
473104 2015 HB_{172}	16.4	X	127.35615	295.01382	319.50378	6.44268	0.1798923	0.23172402	2.6251574	21	11 21.1	20.9
473105 2015 HO_{172}	16.5	X	135.74234	297.36249	249.24374	7.66442	0.1603588	0.21230561	2.7828838	21	9 2.7	21.2
473106 2015 HQ_{172}	16.1	X	341.69493	29.03646	261.52362	5.55350	0.2641940	0.17627080	3.1502798	21	5 29.4	19.1
473107 2015 HT_{172}	17.8	X	209.01484	318.64475	273.52608	1.34070	0.1292894	0.25995738	2.4314646	21	—	—
473108 2015 HC_{173}	17.6	X	205.59292	332.27200	258.16120	2.83819	0.1300432	0.25809168	2.4431683	21	—	—
473109 2015 HM_{173}	17.0	X	199.10780	228.86240	322.21282	4.32072	0.0795087	0.23925362	2.5697864	21	11 17.2	20.7
473110 2015 HN_{173}	16.6	X	182.34598	286.78652	228.81036	11.07707	0.2481416	0.22389854	2.6859744	21	9 4.6	21.5
473111 2015 HS_{173}	16.6	X	120.21153	134.07756	76.16340	5.88911	0.0948743	0.21031581	2.8004088	21	9 18.9	20.8
473112 2015 HZ_{173}	15.4	X	50.68217	129.07464	80.74136	12.16044	0.0613799	0.17772642	3.1330553	21	6 13.0	19.6
473113 2015 HA_{174}	15.7	X	319.73870	205.75040	99.04806	10.29164	0.1393216	0.17188095	3.2036929	21	5 27.7	19.8
473114 2015 HL_{174}	16.7	X	28.67020	47.60317	184.64149	9.87124	0.1899227	0.18204669	3.0832888	21	6 22.1	20.3
473115 2015 HU_{175}	15.7	X	14.79662	79.99333	161.74121	9.45046	0.0291876	0.17404981	3.1770229	21	6 3.5	20.2
473116 2015 HW_{175}	16.2	X	70.70704	174.14518	38.03678	11.41324	0.0796583	0.18593996	3.0400979	21	7 19.1	20.5
473117 2015 HZ_{175}	17.0	X	181.07180	115.79044	79.76273	14.11930	0.2183003	0.23195839	2.6233888	21	11 1.5	21.6
473118 2015 HS_{176}	16.0	X	14.47376	99.83668	141.91828	26.49958	0.2556674	0.16925041	3.2368027	21	6 16.2	19.7
473119 2015 HF_{177}	17.8	X	329.20093	245.99373	305.97532	6.57441	0.1113674	0.30103167	2.2049289	21	—	—
473120 2015 HL_{179}	16.0	X	91.46754	122.89592	78.87792	13.38937	0.0989079	0.19006426	2.9959582	21	8 4.9	20.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
473121 2015 HJ_{180}	17.6	X	248.08166	183.80323	15.47314	2.68721	0.1397800	0.26631914	2.3925873	21	—	—
473122 2015 JS	16.4	X	164.03940	318.94337	253.33431	12.29842	0.2161297	0.22829268	2.6513968	21	10 31.4	21.1
473123 2015 JS_2	15.8	X	345.79332	163.58510	119.79687	9.86719	0.2131458	0.17308697	3.1887940	21	6 5.3	19.2
473124 2015 JV_2	16.2	X	85.66873	50.75289	154.94452	11.46076	0.0612003	0.18850410	3.0124662	21	7 24.0	20.6
473125 2015 JH_3	15.9	X	122.93252	305.28052	145.92607	27.40954	0.2749670	0.18203045	3.0834721	21	5 17.1	21.5
473126 2015 JP_3	15.7	X	249.78605	88.16861	279.99017	10.59690	0.0864503	0.17307152	3.1889838	21	5 22.4	20.5
473127 2015 JZ_4	15.7	X	213.38173	196.83191	261.30627	16.46084	0.0950446	0.20098948	2.8863822	21	7 29.0	20.3
473128 2015 JG_5	16.3	X	225.80836	232.57780	282.24003	10.01143	0.0628429	0.23062740	2.6334724	21	11 1.3	20.2
473129 2015 JM_5	15.9	X	200.05983	93.70381	325.42168	9.39616	0.0695385	0.17359563	3.1825619	21	5 31.9	20.9
473130 2015 JQ_6	16.1	X	290.97626	46.61401	302.79732	7.47847	0.0241490	0.18362959	3.0655443	21	6 28.8	20.3
473131 2015 JV_6	16.1	X	253.55652	86.81515	286.41133	7.41267	0.0947706	0.17478604	3.1680952	21	6 1.6	20.8
473132 2015 JZ_6	16.9	X	177.40968	217.15699	335.72362	5.89774	0.0325639	0.22363145	2.6881126	21	10 25.6	20.7
473133 2015 JS_7	16.4	X	61.75521	60.38575	125.52231	14.53331	0.1374781	0.17623461	3.1507111	21	6 10.6	20.7
473134 2015 JJ_{10}	16.0	X	320.26541	84.70414	250.02731	15.68369	0.1538781	0.17486246	3.1671720	21	7 1.5	20.0
473135 2015 KK_2	16.4	X	109.70318	318.64036	300.64134	11.41061	0.1013906	0.23175333	2.6249361	21	11 3.3	20.5
473136 2015 KD_3	15.7	X	314.45682	81.91221	231.42492	19.59835	0.1306114	0.17107690	3.2137232	21	5 30.2	19.9
473137 2015 KK_3	16.6	X	234.94801	65.12929	41.04368	4.11320	0.0496825	0.21188345	2.7865790	21	9 15.6	20.4
473138 2015 KR_3	16.5	X	75.26720	68.51613	236.80752	12.81875	0.0898092	0.23518780	2.5993187	21	11 26.3	20.0
473139 2015 KT_3	15.2	X	324.81845	6.01910	288.95078	10.19421	0.1217345	0.18069476	3.0986487	21	5 20.8	19.3
473140 2015 KP_4	16.9	X	62.31645	54.79107	331.49311	6.44670	0.1136390	0.26951851	2.3736152	21	—	—
473141 2015 KN_5	16.4	X	35.24191	75.33800	216.86661	13.30550	0.1807112	0.20439142	2.8542649	21	9 22.8	20.1
473142 2015 KH_6	16.1	X	311.82089	188.82155	146.47842	8.88355	0.0565414	0.17915952	3.1163254	21	7 3.6	20.4
473143 2015 KL_6	16.3	X	320.86503	195.26204	117.56293	11.40075	0.0543266	0.17379148	3.1801705	21	6 18.4	20.6
473144 2015 KP_6	15.7	X	193.34207	335.66042	126.57100	9.92217	0.0881291	0.18897153	3.0074965	21	7 18.0	20.2
473145 2015 KQ_8	15.4	X	330.40503	235.10088	76.62062	24.48358	0.1127477	0.18226378	3.0808400	21	6 22.3	19.3
473146 2015 KW_{10}	16.2	X	281.82038	241.84238	114.24749	17.26888	0.1361955	0.17129529	3.2109911	21	6 11.2	20.9
473147 2015 KG_{11}	15.7	X	32.59833	172.05301	110.12635	14.46853	0.1338578	0.18952192	3.0016709	21	9 4.8	19.6
473148 2015 KL_{11}	16.3	X	337.27325	192.21013	130.86499	12.13494	0.0351071	0.18503355	3.0500180	21	7 25.6	20.2
473149 2015 KU_{12}	16.8	X	169.72748	64.88249	121.74914	11.86638	0.1394358	0.21730438	2.7400410	21	10 13.2	21.4
473150 2015 KY_{12}	16.0	X	225.31249	285.88008	138.96870	12.25440	0.0874747	0.18121352	3.0927322	21	7 5.7	20.7
473151 2015 KR_{14}	15.9	X	213.62758	198.30216	215.94606	21.11439	0.0764295	0.16912202	3.2384407	21	6 9.8	21.0
473152 2015 KM_{16}	16.3	X	63.20484	63.62666	166.96278	11.50536	0.0808818	0.18556617	3.0441790	21	7 29.0	20.5
473153 2015 KW_{17}	15.6	X	240.45066	273.93859	141.57168	12.10070	0.0666235	0.18174513	3.0866984	21	7 13.0	20.2
473154 2015 KR_{20}	16.4	X	210.52520	307.31277	248.15773	10.85816	0.0935482	0.23645703	2.5900088	21	12 5.1	19.9
473155 2015 KZ_{21}	15.8	X	160.92654	346.76694	101.26446	9.75894	0.0046922	0.17724233	3.1387574	21	5 24.8	20.3
473156 2015 KS_{24}	16.4	X	181.02694	292.32164	150.22686	11.66428	0.0824701	0.17451668	3.1713542	21	6 12.2	21.4
473157 2015 KH_{26}	17.9	X	267.91228	259.37760	317.73726	1.75588	0.1315721	0.27488818	2.3426029	21	—	—
473158 2015 KN_{26}	16.9	X	111.65640	24.07333	302.54159	2.25117	0.2278365	0.24115325	2.5562734	21	—	—
473159 2015 KW_{27}	16.9	X	121.05174	279.51012	301.90288	3.04426	0.0450626	0.21288099	2.7778671	21	9 25.2	20.8
473160 2015 KE_{28}	17.2	X	47.85817	65.75833	271.21024	4.66750	0.0893534	0.22695386	2.6618138	21	11 30.9	20.8
473161 2015 KE_{29}	15.6	X	160.14151	216.55679	245.38670	9.69429	0.0650223	0.17929509	3.1147542	21	6 11.7	20.3
473162 2015 KP_{30}	16.4	X	339.09765	58.50976	235.30417	11.70698	0.0968643	0.17664281	3.1458553	21	6 15.2	20.4
473163 2015 KA_{31}	16.7	X	332.98870	340.61002	338.69679	2.37923	0.1164391	0.18305974	3.0719029	21	7 8.7	20.3
473164 2015 KC_{31}	16.3	X	290.17173	19.94525	34.52051	5.97440	0.0638514	0.21239018	2.7821450	21	9 19.6	19.9
473165 2015 KO_{31}	16.3	X	333.12718	220.63281	60.46307	2.93526	0.0941340	0.16862649	3.2447819	21	5 21.0	20.4
473166 2015 KS_{31}	16.3	X	353.26593	38.29609	226.12738	4.52919	0.0911047	0.17111300	3.2132712	21	5 30.8	20.3
473167 2015 KE_{32}	16.5	X	109.54935	266.46611	248.28788	5.89414	0.0785815	0.18022795	3.1039969	21	6 21.6	21.0
473168 2015 KR_{32}	16.2	X	24.95112	335.54632	252.66433	4.32399	0.1058849	0.17123001	3.2118071	21	6 2.9	20.2
473169 2015 KU_{32}	17.0	X	171.92162	170.09257	44.44968	13.16412	0.1136287	0.23151218	2.6267585	21	11 14.5	20.9
473170 2015 KJ_{38}	16.2	X	188.34222	37.34260	191.80575	7.42467	0.1478421	0.24043129	2.5613881	21	12 18.4	20.2
473171 2015 KY_{38}	16.1	X	64.52252	110.81653	94.02409	11.60171	0.0239415	0.17342720	3.1846221	21	6 20.9	20.5
473172 2015 KY_{39}	17.2	X	33.29956	101.24190	200.49869	1.58693	0.0551749	0.20010623	2.8948694	21	9 17.6	20.9
473173 2015 KT_{46}	17.6	X	287.72569	90.11082	115.56724	4.04659	0.1024937	0.27590298	2.3368551	21	—	—
473174 2015 KR_{49}	16.5	X	93.86743	50.23946	222.47925	7.98633	0.1431051	0.21165827	2.7885551	21	11 8.9	20.7
473175 2015 KU_{52}	16.1	X	112.52852	71.38316	92.45087	10.66693	0.0246500	0.17444741	3.1721937	21	6 29.9	20.5
473176 2015 KF_{57}	15.5	X	114.22158	346.68936	100.31558	29.09060	0.1655145	0.17529281	3.1619862	21	4 29.9	20.8
473177 2015 KT_{59}	15.9	X	69.61714	78.89009	107.97665	16.94328	0.1553448	0.17506929	3.1646771	21	6 24.2	20.2
473178 2015 KZ_{60}	16.3	X	20.61580	302.15871	46.56131	7.96759	0.0557327	0.22151961	2.7051702	21	11 4.1	19.6
473179 2015 KP_{63}	16.1	X	239.88372	341.29946	82.46428	12.07771	0.0802850	0.19604957	2.9346667	21	7 23.3	20.5
473180 2015 KM_{64}	16.2	X	76.69657	65.77872	145.40061	6.91324	0.0303157	0.18756127	3.0225531	21	7 15.4	20.3
473181 2015 KL_{67}	17.2	X	119.34014	257.95156	102.52790	7.60318	0.1100013	0.26676099	2.3899446	21	—	—
473182 2015 KU_{67}	16.9	X	18.74670	199.57382	141.60161	7.53408	0.0577980	0.21530586	2.7569707	21	10 24.6	20.5
473183 2015 KX_{67}	16.3	X	60.87289	262.87524	75.76542	17.66690	0.0413629	0.23410112	2.6073563	21	12 13.7	19.7
473184 2015 KD_{69}	16.3	X	317.62565	144.72563	134.43337	11.07832	0.0867789	0.16122639	3.3433253	21	5 2.0	21.0
473185 2015 KN_{70}	16.4	X	15.88802	92.90517	151.90638	10.97055	0.0292185	0.17366819	3.1816754	21	6 8.9	20.9
473186 2015 KR_{70}	16.2	X	331.46785	238.55643	114.48727	11.18604	0.0492695	0.19996572	2.8962253	21	8 29.5	20.0
473187 2015 KD_{71}	16.5	X	204.92612	9.82485	125.63664	10.47407	0.1436122	0.21631476	2.7483916	21	9 11.2	20.9
473188 2015 KG_{71}	16.5	X	349.64818	110.95505	134.94150	10.87746	0.0745282	0.16173097	3.3363678	21	5 6.6	21.0
473189 2015 KO_{71}	15.8	X	275.92291	196.15692	171.22140	12.53846	0.0774527	0.18020350	3.1042777	21	6 24.1	20.4
473190 2015 KF_{72}	16.5	X	349.03992	268.27651	93.61413	14.92513	0.1712403	0.20636804	2.8360100	21	10 16.6	19.8
473191 2015 KJ_{73}	16.1	X	353.67070	80.14938	198.91936	12.49634	0.2181054	0.17146257	3.2089023	21	6 14.6	19.6
473192 2015 KU_{73}	15.9	X	78.44744	93.23986	90.29420	11.37270	0.0972907	0.17761941	3.1343134	21	6 22.3	20.2
473193 2015 KZ_{75}	16.7	X	313.34317	197.47228	158.11790	10.44853	0.1093751	0.18871241	3.0102489	21	7 25.5	20.5
473194 2015 KH_{76}	15.9	X	15.49020	149.20100	107.38263	11.62356	0.0142388	0.17725901	3.1385605	21	6 21.9	20.3
473195 2015 KJ_{76}	16.4	X	310.83451	184.16599	127.97791	10.55076	0.0315890	0.17191760	3.2032376	21	6 7.4	20.9
473196 2015 KQ_{77}	16.3	X	308.84088	241.51231	119.20420	9.69201	0.1007369	0.18919649	3.0051120	21	7 28.0	20.0
473197 2015 KM_{82}	16.1	X	278.11462	252.34642	103.27665	17.42089	0.1407791	0.17165610	3.2064899	21	6 5.6	20.8
473198 2015 KV_{83}	16.2	X	11.25941	147.09066	120.10015	11.62397	0.0693947	0.17908312	3.1172115	21	7 1.4	20.2
473199 2015 KF_{90}	16.2	X	43.65476	128.86342	93.71155	7.04279	0.1251517	0.17442617	3.1724512	21	6 27.5	20.0
473200 2015 KB_{91}	15.8	X	313.87427	271.61301	79.94317	12.13233	0.0815364	0.18575305	3.0421369	21	7 27.3	19.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
473201 2015 KT_{94}	16.5	X	138.05999	337.34578	185.38471	9.43543	0.0311009	0.18900276	3.0071652	21	7 28.9	20.9
473202 2015 KF_{98}	16.1	X	67.63996	122.48575	102.17058	10.15119	0.0346419	0.18345006	3.0675441	21	7 22.6	20.3
473203 2015 KW_{101}	15.8	X	341.56607	224.17045	87.63959	12.06947	0.0680310	0.18004907	3.1060525	21	7 15.9	19.8
473204 2015 KF_{103}	16.9	X	177.91959	37.66710	110.70929	9.37623	0.2389891	0.20941170	2.8084634	21	8 30.2	21.9
473205 2015 KX_{110}	16.2	X	231.20655	230.18686	182.91242	9.42303	0.0898228	0.17483272	3.1675312	21	6 26.9	21.1
473206 2015 KG_{113}	16.6	X	0.60931	108.55203	198.83598	9.82168	0.0714141	0.18445010	3.0564464	21	8 4.9	20.6
473207 2015 KM_{113}	16.2	X	8.63983	58.57054	219.67166	14.83890	0.0950851	0.17579990	3.1559029	21	7 9.5	20.4
473208 2015 KE_{115}	15.6	X	223.64165	199.49275	110.36272	10.75073	0.1411759	0.12372321	3.9887358	21	2 21.5	21.9
473209 2015 KJ_{116}	15.8	X	351.16974	233.38564	84.89310	16.98902	0.0943641	0.18403143	3.0610803	21	8 11.9	19.8
473210 2015 KM_{116}	15.7	X	235.53334	130.27284	183.09439	5.49438	0.1550676	0.12699559	3.9199177	21	3 3.3	21.8
473211 2015 KB_{120}	15.6	X	65.96539	268.10167	272.51893	14.71840	0.1936482	0.17688940	3.1429309	21	6 16.3	19.6
473212 2015 KT_{125}	16.5	X	188.64448	254.70891	203.70392	9.75430	0.0367901	0.18912867	3.0058304	21	7 7.9	21.0
473213 2015 KF_{129}	16.3	X	237.25902	232.67515	187.30434	9.07178	0.1247213	0.19201421	2.9756406	21	7 7.9	20.9
473214 2015 KS_{129}	17.2	X	274.51112	17.31205	105.33840	4.90062	0.0213382	0.23729608	2.5838998	21	12 4.1	20.4
473215 2015 KX_{129}	16.5	X	80.46269	140.61924	66.98320	5.99438	0.2044436	0.18984602	2.9982538	21	8 13.1	20.9
473216 2015 KB_{131}	16.5	X	157.69021	324.54040	202.88226	11.91373	0.0173499	0.19907409	2.9048668	21	8 26.5	20.8
473217 2015 KP_{133}	17.1	X	113.56898	103.60418	173.33436	11.29788	0.0540542	0.22249680	2.6972438	21	11 30.5	21.2
473218 2015 KW_{133}	15.6	X	332.39907	41.43155	258.59593	8.36232	0.0536365	0.17419916	3.1752067	21	6 17.2	19.7
473219 2015 KY_{133}	16.8	X	177.91903	308.91793	269.09761	2.65769	0.1707370	0.23482825	2.6019712	21	11 22.6	20.8
473220 2015 KY_{135}	17.9	X	54.46830	218.09162	253.98328	3.45955	0.0539065	0.29377478	2.2410921	21	1 17.2	20.1
473221 2015 KF_{140}	17.3	X	331.61208	3.75663	72.65381	4.09736	0.0753533	0.23850300	2.5751754	21	12 22.7	20.1
473222 2015 KD_{141}	17.0	X	196.21809	306.90739	215.95444	4.14211	0.0930506	0.21956957	2.7211634	21	10 6.5	21.0
473223 2015 KY_{141}	17.1	X	131.93866	152.03032	67.69245	5.73361	0.0531115	0.21239998	2.7820595	21	10 10.4	21.2
473224 2015 KW_{142}	15.8	X	217.49464	10.41224	54.43066	10.89054	0.0283437	0.17996518	3.1070176	21	7 1.9	20.4
473225 2015 KX_{144}	16.4	X	73.53146	120.80010	93.98802	3.76202	0.0568724	0.18338615	3.0682567	21	7 20.7	20.6
473226 2015 KG_{145}	16.2	X	59.47702	186.15603	43.25013	10.25047	0.0793975	0.18489125	3.0515827	21	7 26.7	20.5
473227 2015 KO_{147}	15.8	X	21.82745	151.79371	129.42195	17.13577	0.1109863	0.17920833	3.1157595	21	8 9.1	19.6
473228 2015 KW_{147}	15.8	X	341.48233	200.36652	157.93325	15.58179	0.1703905	0.18862663	3.0111615	21	9 15.3	18.9
473229 2015 KC_{150}	16.5	X	20.01957	124.39537	138.89346	6.18667	0.1640640	0.18207849	3.0829297	21	7 16.3	19.9
473230 2015 KP_{151}	16.7	X	65.41120	293.60597	82.05861	9.63543	0.1831954	0.25147596	2.4858318	21	—	—
473231 2015 KH_{152}	15.7	X	351.25828	354.90841	306.39113	14.40288	0.1671284	0.17866210	3.1221068	21	7 15.0	19.1
473232 2015 KE_{156}	16.1	X	26.42847	73.88644	181.02779	26.78265	0.2369214	0.17508136	3.1645316	21	7 22.8	20.1
473233 2015 KG_{161}	17.5	X	191.63813	42.54709	210.47099	2.62892	0.0558441	0.25163902	2.4847578	21	—	—
473234 2015 LA	16.3	X	69.19894	174.18474	168.04625	33.99739	0.1878568	0.23380621	2.6095484	21	—	—
473235 2015 LO	16.6	X	87.26745	122.33087	173.93399	14.41171	0.0946742	0.22448371	2.6813047	21	11 29.5	20.8
473236 2015 LM_{3}	16.4	X	351.17346	163.77145	261.18428	14.13315	0.0337361	0.24506218	2.5290176	21	—	—
473237 2015 LM_{4}	16.0	X	344.83041	357.44054	297.77601	8.17710	0.0446758	0.18136506	3.0910093	21	6 29.8	20.1
473238 2015 LZ_{4}	15.8	X	346.07959	11.03914	266.00786	13.50959	0.0544246	0.17306489	3.1890652	21	6 6.9	19.9
473239 2015 LL_{6}	14.9	X	237.14052	339.94123	314.35059	8.69015	0.2266741	0.12482817	3.9651624	21	2 8.4	21.3
473240 2015 LE_{13}	16.8	X	11.07006	283.21810	168.29794	9.84784	0.1025714	0.25757157	2.4464561	21	—	—
473241 2015 LL_{23}	16.3	X	37.90518	155.57360	101.58220	5.94617	0.0975351	0.18174988	3.0866446	21	8 1.3	20.2
473242 2015 LH_{32}	16.0	X	285.71867	302.84340	102.42893	9.47296	0.0983414	0.17475450	3.1684764	21	8 24.6	20.3
473243 2015 LV_{36}	16.0	X	12.22600	37.67630	235.41081	16.53719	0.1930025	0.17761450	3.1343713	21	7 12.6	19.7
473244 2015 LE_{37}	16.4	X	169.80707	130.25887	70.34757	13.86791	0.1156874	0.22472371	2.6793953	21	10 30.8	20.7
473245 2015 LG_{37}	15.8	X	326.14741	241.58670	72.72669	12.39160	0.1130572	0.17625888	3.1504219	21	6 20.2	19.8
473246 2015 LN_{37}	15.8	X	21.63228	7.89680	235.84998	14.15861	0.1961490	0.17134108	3.2104190	21	6 23.8	19.5
473247 2015 MF_{1}	16.2	X	72.92463	286.81143	328.04741	9.43895	0.0440459	0.18424916	3.0586683	21	9 5.7	20.4
473248 2015 MT_{1}	16.2	X	141.66496	324.75836	268.67827	12.71381	0.0453197	0.22748113	2.6576991	21	11 4.1	20.1
473249 2015 MW_{1}	16.5	X	20.26559	275.39842	89.78271	12.69992	0.0655748	0.22706238	2.6609656	21	11 28.9	19.9
473250 2015 MA_{2}	16.4	X	11.41308	143.85046	110.93485	10.40677	0.1356782	0.17173060	3.2055626	21	6 17.7	20.1
473251 2015 MD_{2}	16.2	X	28.34404	174.77904	112.45029	10.53505	0.0335676	0.19292888	2.9662281	21	8 22.3	20.2
473252 2015 ML_{6}	16.1	X	272.57891	270.91751	134.76291	9.81107	0.0770566	0.17096695	3.2151009	21	8 7.8	20.5
473253 2015 MF_{15}	16.2	X	2.26873	152.02341	210.70844	9.26793	0.1472028	0.18771075	3.0209483	21	10 28.6	19.6
473254 2015 MQ_{19}	17.1	X	242.43981	133.32811	6.39107	5.76794	0.0927537	0.23334166	2.6130107	21	10 31.6	20.7
473255 2015 MT_{21}	16.2	X	187.92704	304.82809	243.58007	27.11491	0.1526521	0.23074607	2.6325694	21	10 25.2	20.6
473256 2015 MT_{23}	17.5	X	52.90835	237.12672	60.92334	5.23673	0.0493897	0.21109696	2.7934960	21	10 12.5	21.3
473257 2015 MF_{24}	15.9	X	350.20345	252.45436	50.36588	11.71398	0.0727964	0.18411219	3.0601850	21	7 18.6	20.0
473258 2015 MU_{24}	16.4	X	114.30891	97.79212	47.50097	10.13174	0.0391962	0.17434318	3.1734579	21	6 9.3	21.0
473259 2015 MD_{26}	15.9	X	342.49404	60.40443	267.67163	8.73504	0.1120768	0.18894802	3.0077460	21	8 3.3	19.7
473260 2015 MX_{26}	17.1	X	166.88272	125.53147	42.86676	10.05362	0.0827742	0.20895115	2.8125886	21	9 17.3	21.4
473261 2015 MA_{28}	15.4	X	218.09594	290.38776	26.02610	9.47279	0.1911012	0.12485053	3.9646890	21	2 23.6	21.9
473262 2015 MN_{31}	15.9	X	316.07180	243.56297	92.49772	11.93199	0.1254002	0.18185392	3.0854673	21	7 2.3	19.8
473263 2015 ML_{35}	15.8	X	291.09676	245.99761	101.50406	11.05613	0.0665642	0.17720976	3.1391419	21	6 20.2	20.1
473264 2015 MT_{35}	16.4	X	58.02562	159.24195	122.09031	8.19955	0.0364790	0.20548886	2.8440934	21	9 26.6	20.3
473265 2015 MY_{35}	16.0	X	239.43721	304.37653	102.41197	12.72650	0.1485958	0.18200011	3.0838148	21	6 22.9	20.8
473266 2015 MC_{36}	15.3	X	301.06526	244.17054	93.92691	14.21444	0.0669787	0.17644839	3.1481657	21	6 21.3	19.6
473267 2015 MN_{37}	16.6	X	342.97790	129.58490	187.49676	9.92490	0.2324233	0.17667961	3.1454184	21	7 12.7	20.0
473268 2015 MF_{38}	16.4	X	176.53478	355.66931	119.00074	12.39359	0.0286684	0.18479705	3.0526196	21	7 15.8	20.6
473269 2015 MJ_{42}	16.9	X	335.56732	179.51001	205.77436	14.73553	0.0677756	0.21257905	2.7804968	21	10 15.4	20.2
473270 2015 MM_{44}	16.1	X	181.61963	342.50906	124.59950	14.20947	0.1653447	0.18287399	3.0739827	21	7 11.4	21.2
473271 2015 MH_{66}	15.7	X	211.00487	245.73412	285.83337	13.72565	0.0919036	0.20549449	2.8440415	21	10 27.6	20.2
473272 2015 MR_{91}	15.4	X	342.25117	4.45215	281.53148	15.48510	0.0191518	0.17602856	3.1531693	21	6 15.6	19.7
473273 2015 MJ_{92}	16.2	X	22.59100	150.14271	112.75769	7.25795	0.1145585	0.17985915	3.1082387	21	7 16.5	19.8
473274 2015 MW_{92}	16.2	X	33.78449	173.05951	95.04923	9.70636	0.0743307	0.18741522	3.0241232	21	8 8.4	20.1
473275 2015 MW_{93}	15.4	X	315.19337	247.18790	87.89132	11.62361	0.0680661	0.18069841	3.0986070	21	7 7.1	19.4
473276 2015 MC_{94}	16.0	X	333.20679	145.40109	180.33778	12.74815	0.1185753	0.17102029	3.2144324	21	7 15.2	20.2
473277 2015 NT_{10}	16.0	X	221.22255	316.58365	145.28922	20.54308	0.1002103	0.20463555	2.8519944	21	8 16.6	20.1
473278 2015 ND_{11}	16.1	X	94.01784	37.24838	143.56281	16.38670	0.0320433	0.18088121	3.0965190	21	6 29.9	20.7
473279 2015 NG_{12}	15.7	X	111.29709	55.23290	113.91297	27.56665	0.1214923	0.17727638	3.1383555	21	7 17.2	20.3
473280 2015 NR_{22}	16.4	X	49.29465	80.53230	156.11824	10.24810	0.1465998	0.17737217	3.1372254	21	7 26.9	20.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
473281 2015 NT_{25}	16.4	X	32.61882	247.97702	69.48720	4.41753	0.1419862	0.20108251	2.8854919	21	10 21.1	20.0
473282 2015 OC_{5}	14.7	X	304.99241	10.91710	244.31443	11.54450	0.1856570	0.12475847	3.9666391	21	2 27.2	20.3
473283 2015 OO_{19}	17.1	X	115.80672	115.08911	186.16637	9.59371	0.2210326	0.21419078	2.7665309	21	—	—
473284 2015 OE_{42}	17.2	X	91.45267	166.05595	185.66840	5.05810	0.1700761	0.21162804	2.7888206	21	—	—
473285 2015 PZ_{7}	17.5	X	234.72162	111.96831	171.78866	14.34501	0.1580098	0.26019913	2.4299583	21	1 9.5	21.6
473286 2015 PD_{30}	16.4	X	2.60739	61.61235	303.61214	8.83696	0.1210333	0.18121437	3.0927226	21	10 24.4	20.3
473287 2015 PZ_{46}	16.1	X	67.02801	197.71814	94.94021	5.94777	0.1829564	0.18701517	3.0284344	21	11 7.7	20.5
473288 2015 PT_{281}	16.5	X	9.21705	281.07452	76.85832	10.74038	0.2410362	0.17829445	3.1263973	21	11 14.5	19.8
473289 2015 PL_{293}	18.1	X	278.51099	344.61602	302.92664	4.24291	0.2058568	0.28194765	2.3033348	21	2 17.5	21.5
473290 2015 PF_{294}	16.0	X	35.39561	162.74108	161.72365	31.58444	0.2517815	0.17855259	3.1233833	21	11 19.9	20.7
473291 2015 PY_{304}	17.2	X	264.85552	258.83238	356.18257	14.49033	0.0933889	0.25680875	2.4512984	21	1 12.0	21.0
473292 2015 PP_{305}	16.5	X	129.84067	314.72319	359.78070	6.75244	0.1403820	0.22042782	2.7140954	21	—	—
473293 2015 PW_{306}	16.6	X	169.45280	308.10577	63.96889	8.32451	0.1492807	0.25712093	2.4493138	21	3 4.2	20.4
473294 2015 PM_{310}	16.0	X	44.78998	290.14966	77.74142	10.06688	0.1214642	0.19718562	2.9233841	21	—	—
473295 2015 QO	16.4	X	99.31580	164.51679	180.10935	12.71215	0.1728805	0.21976708	2.7195327	21	—	—
473296 2015 QR_{10}	17.7	X	196.66279	225.07683	188.69381	5.86484	0.1887370	0.28551812	2.2840921	21	5 17.6	21.3
473297 2015 RW_{10}	16.8	X	196.94675	316.51774	314.48180	8.37281	0.1418896	0.23875951	2.5733307	21	—	—
473298 2015 RV_{16}	15.8	X	89.06514	85.38681	202.62942	11.68624	0.0654639	0.18196216	3.0842435	21	11 10.6	20.3
473299 2015 RJ_{17}	17.2	X	153.74535	133.66543	271.23443	6.06309	0.0904077	0.26145114	2.4221946	21	3 15.5	20.7
473300 2015 RF_{25}	17.6	X	291.16300	78.64334	183.29281	1.92202	0.1984588	0.27838314	2.3229548	21	1 30.4	20.9
473301 2015 RA_{27}	17.4	X	222.08596	321.61184	18.24289	6.81236	0.1432569	0.26452204	2.4034115	21	3 10.7	21.1
473302 2015 RX_{34}	17.6	X	234.35292	74.08987	235.41987	0.82786	0.1813279	0.26707943	2.3880446	21	2 8.9	21.4
473303 2015 RC_{56}	16.5	X	351.64123	208.39221	204.59230	4.59586	0.1297424	0.18458003	3.0550119	21	12 12.9	20.1
473304 2015 RV_{70}	15.9	X	137.28808	95.79536	167.56069	9.17593	0.0314203	0.18854106	3.0120725	21	12 3.5	20.4
473305 2015 RK_{84}	15.6	X	12.19979	77.22653	255.93841	12.68801	0.2194921	0.17212690	3.2006404	21	10 6.1	19.4
473306 2015 RT_{87}	17.4	X	230.08518	46.03536	264.26503	5.46462	0.1223506	0.26121284	2.4236675	21	2 6.5	21.1
473307 2015 RO_{88}	16.5	X	130.75867	63.83315	264.72173	13.88926	0.1150431	0.21750265	2.7383756	21	—	—
473308 2015 RM_{89}	15.9	X	333.05653	99.29450	344.12322	24.64228	0.2668871	0.17769727	3.1333979	21	12 23.4	19.4
473309 2015 RO_{92}	16.8	X	135.83007	130.44737	193.16227	14.63785	0.1410336	0.22648064	2.6655203	21	—	—
473310 2015 RR_{96}	17.8	X	205.14913	31.44174	356.41903	7.10223	0.1062747	0.28196407	2.3032453	21	4 19.1	21.1
473311 2015 RE_{101}	17.6	X	203.80024	216.11910	149.10225	4.49289	0.1632742	0.27020409	2.3695985	21	3 23.9	21.3
473312 2015 RH_{104}	16.9	X	108.63109	95.84314	292.44413	5.23423	0.0720765	0.23636268	2.5906980	21	1 1.8	20.1
473313 2015 RD_{105}	16.3	X	49.96720	130.20106	202.16588	9.19963	0.1156496	0.18540013	3.0459962	21	11 25.3	20.5
473314 2015 RW_{106}	16.5	X	264.62653	237.22342	357.66145	14.23012	0.0439565	0.23866680	2.5739971	21	—	—
473315 2015 RU_{108}	16.1	X	46.66746	203.96664	137.36160	6.02993	0.1704494	0.18044088	3.1015546	21	12 8.7	20.4
473316 2015 RG_{118}	16.5	X	37.72284	257.55467	174.41487	12.40495	0.1540029	0.22114915	2.7081904	21	—	—
473317 2015 RN_{122}	16.5	X	208.21722	195.84769	97.20650	10.66365	0.1571072	0.24687589	2.5166159	21	—	—
473318 2015 RP_{185}	15.9	X	17.38053	191.32580	186.49517	10.35489	0.1092933	0.17830509	3.1262729	21	12 5.3	20.1
473319 2015 RC_{222}	16.4	X	126.61874	104.72915	181.91096	9.69844	0.0801623	0.19397558	2.9555480	21	12 21.0	21.1
473320 2015 RB_{224}	16.3	X	289.61236	112.92543	19.91239	27.27841	0.1509015	0.18536396	3.0463924	21	12 2.6	20.6
473321 2015 RJ_{240}	16.4	X	146.75087	237.98955	157.25856	14.25091	0.1842877	0.23984067	2.5655914	21	3 12.6	20.3
473322 2015 SW_{2}	15.6	X	30.71937	315.76470	80.16614	29.27893	0.2189533	0.18042523	3.1017339	21	—	—
473323 2015 SO_{10}	16.9	X	155.15754	327.97307	348.74516	13.58962	0.0757080	0.22648021	2.6655236	21	—	—
473324 2015 SW_{17}	17.6	X	191.98520	323.85405	49.82754	2.95669	0.2079125	0.26554682	2.3972241	21	3 25.3	21.6
473325 2015 SR_{19}	16.1	X	359.48057	294.65479	91.80001	11.28580	0.0851244	0.17065372	3.2190339	21	11 18.0	20.3
473326 2015 TY_{6}	16.1	X	56.99026	289.31701	358.16860	11.42976	0.0924311	0.17826944	3.1266898	21	10 2.9	20.5
473327 2015 TZ_{6}	17.5	X	228.75804	338.71623	27.98543	6.27437	0.1728747	0.28674473	2.2775736	21	4 15.4	21.1
473328 2015 TV_{12}	16.1	X	175.45988	303.78306	305.08350	8.11273	0.1099428	0.21118973	2.7926779	21	12 27.6	20.4
473329 2015 TG_{69}	16.3	X	327.10414	92.96498	10.74713	8.63801	0.2172839	0.17779536	3.1322453	21	—	—
473330 2015 TE_{82}	16.8	X	78.74898	39.77806	42.34369	7.14733	0.0955218	0.22581116	2.6707862	21	2 7.2	20.1
473331 2015 TO_{85}	18.0	X	182.00265	74.77686	65.79285	2.98611	0.0363746	0.30472111	2.1870952	21	9 3.4	20.5
473332 2015 TD_{91}	18.0	X	244.92421	349.34355	228.57188	20.47405	0.0502772	0.37332802	1.9101860	21	—	—
473333 2015 TC_{104}	17.6	X	169.70349	231.62070	181.54537	11.75926	0.1540738	0.25679803	2.4513666	21	4 23.3	21.4
473334 2015 TF_{104}	15.9	X	324.71486	306.40003	189.11008	13.43799	0.1516007	0.18824776	3.0152003	21	—	—
473335 2015 TD_{107}	17.0	X	127.67447	244.52596	172.31775	5.53294	0.1495337	0.23669320	2.5882856	21	3 14.7	20.7
473336 2015 TR_{109}	17.8	X	244.63310	233.48381	160.65373	7.25643	0.1788999	0.28506071	2.2865348	21	6 7.4	21.2
473337 2015 TS_{110}	17.8	X	218.08584	4.51229	79.51255	8.31227	0.1518376	0.28964877	2.2623246	21	7 19.6	21.1
473338 2015 TM_{122}	15.3	X	141.56798	147.18385	78.25625	13.31970	0.0302649	0.15917689	3.3719623	21	10 24.1	20.4
473339 2015 TP_{147}	15.8	X	83.78733	295.18220	23.62397	11.03183	0.0518404	0.17930789	3.1146060	21	12 6.3	20.4
473340 2015 TO_{160}	17.7	X	167.04526	47.46782	301.19351	4.67454	0.1125680	0.24735793	2.5133453	21	1 25.3	21.4
473341 2015 TK_{171}	16.8	X	151.91436	169.67020	167.67855	6.45571	0.0510977	0.21930277	2.7233700	21	—	—
473342 2015 TZ_{171}	16.1	X	36.14843	272.47171	101.91396	5.87159	0.1448445	0.18222613	3.0812642	21	12 31.3	20.3
473343 2015 TD_{189}	16.1	X	126.71774	23.02630	284.19069	11.49721	0.1571173	0.21205474	2.7850782	21	—	—
473344 2015 TG_{190}	16.4	X	16.08466	156.38006	214.65611	10.12547	0.1051161	0.17960010	3.1112268	21	11 24.5	20.4
473345 2015 TD_{193}	16.2	X	56.23372	4.97613	324.55570	2.79640	0.1271112	0.18180434	3.0860281	21	11 28.9	20.6
473346 2015 TL_{193}	16.4	X	204.53985	276.01515	4.13826	12.67964	0.1887442	0.23416250	2.6069007	21	—	—
473347 2015 TU_{193}	16.4	X	108.57781	103.36630	274.62752	5.26389	0.0470399	0.22478804	2.6788840	21	—	—
473348 2015 TE_{197}	16.3	X	155.29945	334.22178	316.39763	8.67841	0.1708545	0.21229505	2.7829761	21	—	—
473349 2015 TT_{204}	17.0	X	124.30724	325.17121	50.52732	7.04502	0.0408947	0.22328057	2.6909281	21	1 5.2	20.7
473350 2015 TG_{205}	17.1	X	149.85732	95.28779	215.94398	12.28676	0.2248894	0.22583191	2.6706225	21	—	—
473351 2015 TL_{209}	16.3	X	332.75166	60.98875	18.57998	16.16881	0.2535636	0.17412938	3.1760549	21	12 9.8	19.6
473352 2015 TH_{216}	15.8	X	249.89920	70.41741	320.41037	1.96053	0.2634076	0.12495517	3.9624753	21	6 3.6	22.1
473353 2015 TQ_{233}	15.9	X	36.62460	42.25420	299.62779	8.09288	0.1060356	0.17575017	3.1564982	21	11 13.4	20.2
473354 2015 TN_{242}	16.4	X	59.48212	40.44721	313.84402	8.25360	0.1845169	0.18826981	3.0149649	21	—	—
473355 2015 TF_{244}	16.6	X	43.20069	245.04399	119.82572	4.03952	0.1615589	0.18495497	3.0508818	21	12 31.6	20.9
473356 2015 TU_{247}	16.4	X	36.28141	175.50588	177.53511	6.74938	0.1594596	0.18236276	3.0797251	21	12 8.4	20.6
473357 2015 TP_{249}	16.5	X	104.02508	111.88996	244.45600	4.10449	0.1159953	0.20635223	2.8361548	21	—	—
473358 2015 TS_{252}	16.4	X	120.36468	250.95357	50.61966	7.05513	0.2149513	0.19807501	2.9146266	21	—	—
473359 2015 TV_{256}	16.2	X	320.11226	75.44693	44.60269	9.33488	0.1508051	0.18446023	3.0563345	21	—	—
473360 2015 TK_{265}	16.7	X	42.23111	107.08822	207.19141	15.24945	0.2553744	0.17567882	3.1573528	21	11 11.9	21.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
473361 2015 TY_{266}	17.3	X	342.21932	312.06872	309.75715	4.49633	0.1028176	0.28771405	2.2724552	21	4 23.7	19.7
473362 2015 TE_{282}	17.2	X	137.84304	12.39066	333.98609	4.06338	0.0791216	0.22464719	2.6800036	21	—	—
473363 2015 TS_{292}	15.5	X	320.01417	210.17137	223.20954	13.05062	0.1086741	0.17245354	3.1965977	21	11 14.9	19.3
473364 2015 TU_{296}	17.6	X	161.59945	356.04383	14.84617	14.55078	0.0764288	0.24715520	2.5147195	21	2 19.3	21.3
473365 2015 TG_{303}	17.4	X	209.72409	27.36484	356.00770	5.52835	0.2025219	0.26802845	2.3824042	21	4 18.2	21.3
473366 2015 TE_{304}	15.9	X	275.06475	59.04733	88.46417	10.44950	0.0342565	0.18639337	3.0351657	21	12 23.2	19.9
473367 2015 TC_{312}	16.3	X	209.40509	183.29984	124.41664	15.99426	0.0897160	0.22942209	2.6426880	21	1 20.6	20.2
473368 2015 TP_{331}	16.0	X	209.07391	157.95786	106.06357	15.42486	0.1772133	0.21953795	2.7214247	21	—	—
473369 2015 UZ_{9}	16.8	X	24.76461	209.46436	145.77922	1.91899	0.1857987	0.17639169	3.1488403	21	11 27.2	20.7
473370 2015 UB_{12}	15.8	X	311.11960	246.47581	195.81779	11.89997	0.0610721	0.17662269	3.1460942	21	11 17.9	20.0
473371 2015 UM_{12}	16.5	X	81.77506	188.04680	190.33461	6.13201	0.0246820	0.21099035	2.7944370	21	—	—
473372 2015 UA_{17}	16.8	X	142.64252	173.42282	163.34187	6.40361	0.0394947	0.22112122	2.7084185	21	—	—
473373 2015 UW_{17}	16.1	X	107.27084	195.62337	79.16124	3.48922	0.2301125	0.18465067	3.0542327	21	11 26.9	21.2
473374 2015 UN_{38}	16.2	X	20.03899	202.15989	174.75230	9.96355	0.1041442	0.18025042	3.1037389	21	12 7.8	20.4
473375 2015 UY_{45}	16.2	X	358.37577	0.44169	79.82043	12.81788	0.0543602	0.18857480	3.0117132	21	—	—
473376 2015 UP_{49}	17.0	X	140.03552	240.21087	175.67511	14.71483	0.1020173	0.24450690	2.5328452	21	3 21.2	20.4
473377 2015 UA_{54}	16.3	X	65.45293	284.09321	45.00749	11.22454	0.0632771	0.18168357	3.0873956	21	11 29.8	20.8
473378 2015 UZ_{65}	16.7	X	116.08100	304.75341	81.40711	14.17850	0.2684959	0.22373587	2.6872762	21	2 13.0	20.7
473379 2015 US_{66}	16.1	X	11.57301	275.23835	146.36284	12.25120	0.1433067	0.18081207	3.0973083	21	—	—
473380 2015 UL_{72}	15.8	X	5.03127	351.36831	43.72280	10.52299	0.1022105	0.18350145	3.0669713	21	12 6.9	19.7
473381 2015 UQ_{72}	16.7	X	41.07555	208.56113	206.55976	1.51365	0.0574660	0.20708274	2.8294809	21	—	—
473382 2015 UX_{72}	16.8	X	119.86847	267.63332	77.66170	4.87047	0.1053330	0.21218464	2.7839414	21	—	—
473383 2015 UQ_{73}	16.6	X	23.44625	349.34014	33.45823	2.46902	0.1351617	0.18157348	3.0886435	21	12 23.1	20.5
473384 2015 UZ_{77}	16.7	X	125.77286	161.78210	227.78047	6.39142	0.0538091	0.22409215	2.6844272	21	1 23.6	20.5
473385 2015 UL_{78}	15.7	X	16.49650	303.48244	82.05497	16.88006	0.0952148	0.17659604	3.1464107	21	12 10.8	19.9
473386 2015 UL_{83}	16.0	X	60.71700	300.24565	84.69358	16.04338	0.1520675	0.20327731	2.8646844	21	—	—
473387 2015 UX_{83}	15.8	X	353.18313	357.79905	51.70588	21.12390	0.1096762	0.17664551	3.1458232	21	12 4.3	19.8
473388 2015 VW_{23}	15.8	X	332.11052	353.55766	99.45704	19.37889	0.1520552	0.18020553	3.1042544	21	12 30.8	19.4
473389 2015 VC_{25}	16.0	X	40.52136	246.67544	111.89982	17.61653	0.2479885	0.17717059	3.1396046	21	12 31.6	20.4
473390 2015 VF_{25}	15.6	X	5.42341	302.60562	127.34139	18.42343	0.1261555	0.18143268	3.0902412	21	—	—
473391 2015 VC_{26}	16.2	X	44.89448	265.60429	90.63419	6.21335	0.1428299	0.17751899	3.1354954	21	12 19.2	20.5
473392 2015 VH_{26}	15.6	X	79.25820	333.11290	0.49109	11.04853	0.0503801	0.18402460	3.0611560	21	12 21.2	20.2
473393 2015 VG_{39}	15.9	X	3.05294	172.86302	247.21233	10.73160	0.0814007	0.18320527	3.0702759	21	—	—
473394 2015 VK_{40}	16.6	X	9.27640	248.20675	182.56442	9.52355	0.1334715	0.18907677	3.0063804	21	—	—
473395 2015 VX_{40}	16.3	X	34.08500	208.20186	188.38901	15.21558	0.1112092	0.18617943	3.0374904	21	—	—
473396 2015 VF_{41}	15.3	X	37.09826	305.41908	70.27076	16.52061	0.0999021	0.17976461	3.1093283	21	12 26.4	19.6
473397 2015 VT_{41}	17.1	X	90.10897	279.31268	175.19964	13.36598	0.1285298	0.23388078	2.6089937	21	3 12.2	20.3
473398 2015 VX_{51}	16.0	X	78.77449	107.77981	220.66188	14.83117	0.1045577	0.18176033	3.0865263	21	12 19.7	20.7
473399 2015 VD_{63}	17.6	X	282.17288	243.18798	137.46602	8.03734	0.0976118	0.29758307	2.2219310	21	7 17.9	20.0
473400 2015 VN_{71}	15.7	X	88.75751	228.39036	81.58510	20.42782	0.0986540	0.17575383	3.1564544	21	12 8.6	20.4
473401 2015 VP_{74}	17.6	X	247.04836	264.80260	101.79615	6.49823	0.2418712	0.28043194	2.3116268	21	4 30.7	21.3
473402 2015 VQ_{88}	17.0	X	169.54276	12.12215	21.62929	8.47138	0.0482040	0.25346557	2.4728061	21	3 22.2	20.3
473403 2015 VQ_{93}	17.8	X	182.07196	13.83003	29.50664	2.61279	0.1145263	0.26134738	2.4228356	21	4 18.9	21.3
473404 2015 VM_{94}	16.7	X	327.46823	26.93970	67.39276	8.28387	0.1225237	0.17557568	3.1585892	21	12 22.8	20.4
473405 2015 VM_{96}	16.5	X	167.48560	45.29848	285.62268	4.69829	0.0481145	0.22119131	2.7078463	21	1 2.6	20.3
473406 2015 VY_{101}	16.1	X	32.58848	178.38454	198.19213	10.46550	0.0750479	0.17735017	3.1374849	21	12 18.6	20.5
473407 2015 VA_{103}	17.2	X	252.09227	274.40197	62.60360	11.48279	0.1484192	0.26799597	2.3825967	21	4 8.4	20.9
473408 2015 VG_{112}	16.8	X	98.12333	259.72815	191.00925	8.57356	0.1305379	0.23917048	2.5703820	21	3 17.4	19.9
473409 2015 VH_{113}	18.0	X	191.88801	233.27955	163.28333	1.75610	0.1895345	0.26109450	2.4243998	21	4 22.1	21.9
473410 2015 VY_{116}	16.0	X	44.46334	159.61128	207.17439	10.24900	0.0728940	0.17937821	3.1137919	21	12 21.5	20.5
473411 2015 VK_{117}	16.1	X	354.05358	226.11030	203.04840	9.70692	0.0967319	0.18058785	3.0998715	21	—	—
473412 2015 VR_{117}	15.9	X	298.32709	37.08816	106.84600	11.69201	0.0697223	0.18884526	3.0088370	21	—	—
473413 2015 VY_{117}	16.3	X	335.07103	202.29320	240.94059	10.88235	0.1905489	0.17455990	3.1708308	21	12 21.8	19.8
473414 2015 VE_{118}	16.1	X	46.23734	270.49394	85.07229	6.83923	0.1945153	0.17930276	3.1146654	21	12 27.5	20.4
473415 2015 VN_{118}	16.5	X	107.97038	350.24186	100.12332	15.26930	0.0216786	0.24616655	2.5214480	21	3 21.5	20.1
473416 2015 VB_{120}	16.5	X	359.49022	224.54615	219.40848	8.53166	0.2447674	0.18390623	3.0624694	21	—	—
473417 2015 VS_{123}	15.9	X	351.18785	22.42359	50.40812	13.89052	0.1295668	0.17808657	3.1288297	21	—	—
473418 2015 VV_{124}	17.1	X	114.86639	288.36640	90.15171	12.48722	0.2110100	0.22720004	2.6598906	21	1 21.1	20.7
473419 2015 VW_{128}	16.5	X	111.22888	204.83334	157.21835	14.33524	0.2024000	0.21168888	2.7882862	21	—	—
473420 2015 VQ_{129}	17.4	X	82.77742	304.18364	115.30540	4.51360	0.1900850	0.21780142	2.7358707	21	1 26.7	20.3
473421 2015 VE_{131}	17.1	X	184.15869	242.68967	242.08675	21.62805	0.1940563	0.28671718	2.2777195	21	7 28.8	21.3
473422 2015 VJ_{135}	16.3	X	7.36775	23.11908	64.38962	7.03408	0.2014493	0.18794323	3.0184565	21	—	—
473423 2015 VU_{135}	17.0	X	86.01003	270.77613	220.08830	2.82489	0.1910645	0.24155371	2.5534473	21	5 4.5	20.2
473424 2015 VE_{137}	17.7	X	81.44405	137.19323	278.59106	3.02934	0.1996229	0.21519177	2.7579451	21	1 21.0	20.7
473425 2015 VE_{141}	16.2	X	29.65604	338.79576	60.61758	10.11208	0.1310934	0.18337523	3.0683785	21	—	—
473426 2015 VG_{141}	17.0	X	72.29969	228.08470	216.38630	15.37093	0.2530266	0.21794263	2.7346889	21	2 15.1	20.2
473427 2015 VM_{141}	15.7	X	347.32134	10.72554	66.61496	22.06418	0.1803320	0.17607439	3.1526222	21	—	—
473428 2015 VR_{141}	16.9	X	60.39322	343.88398	80.28670	5.75858	0.1690792	0.20612454	2.8382430	21	—	—
473429 2015 VR_{143}	15.9	X	305.50268	27.56298	86.13851	14.27541	0.1453149	0.17987212	3.1080892	21	12 11.8	19.7
473430 2015 VG_{149}	16.9	X	132.36628	254.26153	107.01580	13.66366	0.2205275	0.22274579	2.6952334	21	1 21.2	20.8
473431 2015 WS_{3}	16.9	X	185.78243	146.23336	216.28340	3.62330	0.1583829	0.24248925	2.5468755	21	3 4.3	21.0
473432 2015 WC_{5}	16.6	X	77.54972	256.66534	111.22853	3.15039	0.1278417	0.19622065	2.9329606	21	—	—
473433 2015 WH_{7}	16.5	X	17.04971	139.76752	275.93669	10.17954	0.2587230	0.18238962	3.0794227	21	—	—
473434 2015 WK_{7}	16.2	X	292.36870	239.04942	289.63274	8.64342	0.0286906	0.19128144	2.9832352	21	—	—
473435 2015 WE_{12}	18.0	X	268.77362	287.36360	97.65951	7.06104	0.1882167	0.29500622	2.2348511	21	6 20.4	20.8
473436 2015 WN_{14}	17.8	X	189.64056	276.65589	142.27608	5.13399	0.2393208	0.26848545	2.3797000	21	5 19.3	21.9
473437 2015 WV_{14}	17.2	X	180.14228	30.82842	60.80673	7.89330	0.0739267	0.27515556	2.3410850	21	6 19.0	20.4
473438 2015 WC_{15}	16.7	X	86.40475	317.66066	89.77559	10.10960	0.1540542	0.21279696	2.7785984	21	1 12.7	20.0
473439 2015 WH_{15}	17.2	X	90.22132	270.92940	202.73389	11.73211	0.2274819	0.23532354	2.5983190	21	4 23.9	20.5
473440 2015 XK	17.7	X	226.23814	249.16315	131.21294	6.16621	0.1923889	0.27064510	2.3670237	21	5 3.2	21.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
473441 2015 XD_2	17.5	X	178.41736	29.72449	238.60130	20.83772	0.0474008	0.36150510	1.9516103	21	—	—
473442 2015 XE_2	15.8	X	322.11051	22.72373	77.04458	10.79763	0.0574588	0.17266392	3.1940005	21	12 21.9	20.1
473443 2015 XR_2	16.7	X	127.29287	136.71336	277.16814	13.66713	0.1214561	0.23346745	2.6120721	21	2 27.8	20.6
473444 2015 XT_2	16.8	X	296.79134	216.75676	88.57178	7.79847	0.0883027	0.26509160	2.3999677	21	4 26.3	19.8
473445 2015 XP_3	16.6	X	54.37835	239.77049	267.77993	11.99326	0.2237265	0.22725285	2.6594786	21	4 4.9	19.6
473446 2015 XR_3	16.4	X	78.17452	186.00065	246.49795	8.40205	0.1309643	0.21524535	2.7574874	21	1 25.8	19.9
473447 2015 XK_4	15.6	X	287.93446	12.33801	107.77805	15.49523	0.0137462	0.17244706	3.1966777	21	12 7.9	20.2
473448 2015 XT_5	17.2	X	54.57962	44.17006	99.20469	14.72710	0.1076482	0.23782000	2.5801036	21	3 28.7	20.5
473449 2015 XV_9	17.2	X	119.76004	310.76033	111.43498	8.74409	0.1778887	0.23263273	2.6183167	21	3 20.6	21.0
473450 2015 XQ_{10}	15.5	X	71.75057	237.20401	105.91689	18.41566	0.1023786	0.17420113	3.1751828	21	12 28.9	20.2
473451 2015 XU_{12}	16.2	X	81.05172	235.39559	124.64657	16.71288	0.2239480	0.19484649	2.9467344	21	—	—
473452 2015 XG_{26}	17.2	X	98.04511	210.29053	185.31998	3.73267	0.1031275	0.21503679	2.7592700	21	1 5.7	20.8
473453 2015 XW_{30}	17.4	X	337.04625	187.19669	111.22434	7.22749	0.1350184	0.28887456	2.2663650	21	6 11.0	19.4
473454 2015 XQ_{35}	16.7	X	348.61230	305.92402	136.93582	5.85847	0.0983924	0.17972955	3.1097327	21	—	—
473455 2015 XP_{45}	17.9	X	103.64914	35.21121	94.85320	1.35690	0.1946517	0.25317701	2.4746847	21	5 26.6	21.1
473456 2015 XE_{46}	16.5	X	306.33954	52.05091	88.52164	4.97826	0.1746160	0.18226965	3.0807738	21	—	—
473457 2015 XV_{51}	15.4	X	230.92533	109.64581	97.28119	19.03246	0.0887490	0.18108664	3.0941767	21	—	—
473458 2015 XA_{55}	17.2	X	182.77496	58.91615	310.31689	10.64844	0.3838335	0.24413213	2.5354366	21	3 13.9	22.3
473459 2015 XF_{56}	17.3	X	39.21639	328.67781	172.26370	3.71851	0.0107490	0.23243418	2.6198076	21	2 16.3	20.6
473460 2015 XQ_{56}	16.3	X	339.42578	12.63726	101.95190	11.34346	0.1085284	0.18674593	3.0313445	21	—	—
473461 2015 XT_{56}	16.8	X	98.51781	231.01175	112.44002	9.36988	0.0977640	0.19048123	2.9915844	21	—	—
473462 2015 XA_{58}	16.1	X	162.88155	166.33340	84.38895	13.92055	0.0342352	0.17178654	3.2048667	21	12 12.8	20.6
473463 2015 XL_{59}	16.0	X	94.36865	222.24838	113.38457	9.96833	0.0902039	0.18308883	3.0715775	21	—	—
473464 2015 XM_{59}	15.9	X	305.19231	311.08017	212.51835	11.76795	0.1846443	0.18574103	3.0422681	21	—	—
473465 2015 XQ_{59}	16.2	X	8.96510	307.78156	106.44008	10.96200	0.0585400	0.17551899	3.1592692	21	12 31.0	20.5
473466 2015 XY_{59}	16.9	X	9.16189	350.64605	175.34573	6.79295	0.1693875	0.21888011	2.7268747	21	1 29.7	19.8
473467 2015 XU_{62}	17.6	X	101.63108	101.94001	127.04544	5.60028	0.0434098	0.30266845	2.1969725	21	9 23.9	20.2
473468 2015 XS_{64}	16.3	X	358.49423	210.47794	226.00335	14.11731	0.0282503	0.18018153	3.1045300	21	—	—
473469 2015 XC_{65}	17.6	X	89.58704	276.98915	135.83965	4.63111	0.0965811	0.21393091	2.7687709	21	1 15.4	21.2
473470 2015 XE_{66}	17.0	X	76.00631	12.23431	67.87150	10.56728	0.1874057	0.21656559	2.7462690	21	2 16.6	20.3
473471 2015 XF_{66}	16.6	X	36.98690	264.00258	244.31584	11.61467	0.1214262	0.22504079	2.6768778	21	2 21.5	19.9
473472 2015 XH_{66}	16.2	X	6.28325	179.73439	252.23814	10.38714	0.1176361	0.17932320	3.1144287	21	—	—
473473 2015 XR_{69}	17.0	X	19.08849	102.25889	89.98777	15.84152	0.0639784	0.24410374	2.5356332	21	4 5.8	20.3
473474 2015 XC_{70}	16.0	X	192.23976	301.65891	69.76898	13.88780	0.1996869	0.24079396	2.5588156	21	3 30.9	20.5
473475 2015 XG_{71}	17.3	X	306.61532	237.91494	44.59755	24.83733	0.2350459	0.27750764	2.3278380	21	3 26.3	20.8
473476 2015 XS_{72}	17.5	X	347.28058	106.23400	174.94917	6.85357	0.0911616	0.27657441	2.3330715	21	6 8.6	19.9
473477 2015 XG_{75}	17.0	X	2.33742	350.32162	75.55712	2.42508	0.2158789	0.17681864	3.1437694	21	—	—
473478 2015 XG_{76}	16.1	X	135.85152	42.09576	258.84686	6.69232	0.0609577	0.18086234	3.0967344	21	—	—
473479 2015 XE_{80}	17.7	X	106.95777	58.79853	92.14905	2.34005	0.1426761	0.26054541	2.4278048	21	6 20.7	20.9
473480 2015 XJ_{81}	16.5	X	19.67084	244.98519	179.87441	10.95764	0.0378142	0.18210042	3.0826821	21	—	—
473481 2015 XF_{82}	15.9	X	329.62069	323.17024	142.56944	14.94890	0.1545479	0.17291579	3.1908982	21	—	—
473482 2015 XN_{82}	17.5	X	66.85155	5.07012	132.29759	15.27877	0.1271643	0.23334695	2.6129712	21	4 11.1	20.8
473483 2015 XA_{83}	16.9	X	80.03107	280.67552	157.37136	10.15014	0.2154206	0.21619171	2.7494344	21	2 19.6	20.0
473484 2015 XM_{84}	16.2	X	331.50898	251.33169	210.14136	16.96520	0.1000161	0.17015089	3.2253726	21	—	—
473485 2015 XN_{85}	16.3	X	8.47640	253.82166	171.72103	12.22707	0.0643647	0.17602451	3.1532176	21	—	—
473486 2015 XV_{86}	17.7	X	264.38202	113.76076	81.34740	23.46213	0.0646132	0.34741913	2.0040116	21	—	—
473487 2015 XW_{86}	16.6	X	179.50257	343.82888	69.56328	15.91917	0.0680899	0.24032510	2.5621426	21	5 3.8	20.4
473488 2015 XQ_{87}	16.4	X	344.89914	69.87907	52.10518	17.09658	0.2021985	0.17814001	3.1282040	21	—	—
473489 2015 XA_{90}	18.0	X	147.75237	279.24498	239.26608	5.47400	0.1817637	0.28309221	2.2971222	21	8 14.9	21.6
473490 2015 XQ_{94}	16.7	X	58.42586	289.16361	99.12350	11.46978	0.1126434	0.19082347	2.9880064	21	—	—
473491 2015 XP_{97}	16.4	X	29.79405	171.98487	228.84776	12.89635	0.0317177	0.17976477	3.1093265	21	—	—
473492 2015 XF_{102}	15.8	X	76.97481	257.62658	90.26123	11.40714	0.0559778	0.17780595	3.1321209	21	—	—
473493 2015 XU_{103}	17.8	X	185.85888	300.42353	142.21363	3.00502	0.2099073	0.27126963	2.3633893	21	6 14.0	21.8
473494 2015 XV_{104}	17.2	X	105.02790	334.01565	137.87912	5.05752	0.0978206	0.24460623	2.5321594	21	4 21.9	20.5
473495 2015 XX_{106}	17.1	X	143.08184	243.78630	134.55206	6.92470	0.0283822	0.22342461	2.6897714	21	1 29.3	20.7
473496 2015 XU_{113}	16.5	X	308.13620	21.60429	222.44148	13.43190	0.1266122	0.23705197	2.5856734	21	2 7.5	20.3
473497 2015 XJ_{116}	16.5	X	66.60734	181.86342	198.34415	9.79414	0.1213919	0.18916746	3.0054195	21	—	—
473498 2015 XP_{122}	16.6	X	352.55720	222.48008	209.69183	18.08369	0.1288551	0.17093605	3.2154883	21	12 31.9	20.9
473499 2015 XJ_{123}	17.3	X	91.18789	262.78599	187.77467	14.20570	0.0659482	0.22580056	2.6708697	21	2 26.4	20.8
473500 2015 XA_{129}	16.4	X	3.30795	269.13795	231.10767	15.20058	0.3937150	0.18277509	3.0750915	21	—	—
473501 2015 XL_{131}	16.8	X	45.85577	43.13845	26.03426	10.32455	0.1495165	0.18650437	3.0339613	21	—	—
473502 2015 XT_{131}	16.6	X	255.47377	324.21371	262.87065	8.54923	0.0445225	0.20088626	2.8873708	21	—	—
473503 Minoruozima	17.8	X	129.11324	287.66098	256.87364	4.73314	0.0821951	0.29134723	2.2535236	21	8 25.1	20.8
473504 2015 XL_{134}	17.2	X	159.86070	237.88753	76.75140	3.10835	0.0556272	0.20302283	2.8670778	21	—	—
473505 2015 XY_{134}	17.4	X	120.59168	322.49574	55.68251	5.54216	0.1058039	0.21607295	2.7504417	21	1 14.9	21.2
473506 2015 XC_{136}	16.1	X	327.53205	213.64626	239.87446	3.85320	0.1096519	0.17212176	3.2007042	21	12 21.3	20.1
473507 2015 XP_{136}	17.9	X	284.42525	285.67109	86.01298	2.65266	0.1491909	0.29532827	2.2332262	21	6 29.0	20.3
473508 2015 XR_{136}	16.9	X	70.23590	348.62978	77.85224	6.12777	0.0310007	0.21124956	2.7921506	21	—	—
473509 2015 XL_{137}	17.5	X	139.33390	333.73500	65.69697	2.88093	0.1105419	0.23438108	2.6052797	21	3 2.8	21.2
473510 2015 XL_{138}	16.3	X	120.63254	209.85668	78.00470	4.36007	0.1976903	0.17747462	3.1360180	21	12 19.3	21.6
473511 2015 XJ_{139}	18.1	X	110.50860	54.64035	80.80396	3.75254	0.1277439	0.25623727	2.4549417	21	6 1.9	21.4
473512 2015 XZ_{139}	17.1	X	134.24133	120.98579	232.06941	3.49615	0.1323775	0.21177606	2.7875209	21	1 3.5	21.1
473513 2015 XD_{140}	17.7	X	104.33490	83.03707	77.25688	8.01565	0.0301996	0.27017258	2.3697828	21	6 13.1	20.6
473514 2015 XW_{141}	16.6	X	41.12111	293.24613	73.70714	4.07573	0.0761729	0.17018466	3.2249459	21	12 16.5	21.0
473515 2015 XE_{144}	15.9	X	51.45355	300.48027	66.14879	13.66909	0.1196720	0.17739480	3.1369586	21	—	—
473516 2015 XO_{144}	16.7	X	40.00014	133.50990	250.48582	8.61117	0.1080865	0.17858066	3.1230560	21	—	—
473517 2015 XY_{144}	16.2	X	31.81093	186.24550	219.50707	1.07599	0.0776568	0.18305513	3.0719545	21	—	—
473518 2015 XN_{146}	17.8	X	294.15343	250.59808	110.36076	4.27136	0.0286433	0.28831316	2.2693061	21	7 19.0	20.2
473519 2015 XU_{146}	16.6	X	77.78797	300.56430	89.95549	10.24950	0.0475547	0.19727437	2.9225073	21	—	—
473520 2015 XN_{147}	18.0	X	201.11012	18.47804	72.72441	2.07323	0.1354083	0.28120651	2.3073800	21	7 11.4	21.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
473521 2015 XP_{147}	17.7	X	94.76549	68.25495	80.82424	2.26028	0.1230169	0.25325861	2.4741531	21	5 30.5	20.8
473522 2015 XW_{147}	17.5	X	354.36888	197.27476	253.39611	2.30664	0.1781271	0.17971417	3.1099101	21	—	—
473523 2015 XZ_{147}	16.7	X	319.35150	62.69107	68.18578	1.97672	0.1537553	0.17785976	3.1314891	21	—	—
473524 2015 XC_{148}	17.1	X	39.97221	153.13754	259.51212	6.76968	0.0991704	0.18787458	3.0191918	21	—	—
473525 2015 XO_{148}	17.3	X	338.95411	39.77875	247.70057	5.93547	0.0994659	0.27432317	2.3458184	21	6 1.4	19.6
473526 2015 XG_{152}	16.4	X	177.38749	12.82945	330.01552	11.14596	0.0794215	0.22940714	2.6428028	21	1 31.4	20.3
473527 2015 XA_{161}	15.9	X	310.31578	88.15630	73.32503	12.16461	0.2507354	0.18479002	3.0526970	21	—	—
473528 2015 XW_{165}	16.7	X	60.98673	278.75616	168.79817	13.08480	0.2420518	0.20952172	2.8074801	21	2 1.7	19.6
473529 2015 XO_{166}	16.4	X	323.44453	270.82302	228.86838	8.32296	0.0599865	0.18949444	3.0019612	21	—	—
473530 2015 XO_{167}	15.4	X	332.28293	248.78068	260.66127	15.08865	0.0931922	0.17730365	3.1380336	21	—	—
473531 2015 XU_{167}	16.7	X	76.50985	295.14303	216.13793	10.12687	0.0625552	0.23297909	2.6157210	21	4 29.2	19.9
473532 2015 XC_{168}	18.0	X	346.70062	215.91517	257.93873	17.45163	0.0890581	0.34592111	2.0097931	21	—	—
473533 2015 XK_{170}	16.3	X	9.29892	12.65932	75.52203	8.46941	0.0147719	0.19102079	2.9859484	21	—	—
473534 2015 XP_{170}	17.3	X	121.45776	97.37575	342.74049	12.08486	0.2580699	0.22806843	2.6531345	21	4 15.0	21.6
473535 2015 XS_{170}	17.2	X	93.00537	83.32158	57.72175	13.68064	0.2168257	0.23172630	2.6251402	21	5 31.3	20.8
473536 2015 XZ_{170}	16.2	X	30.68496	11.76251	36.26241	12.39208	0.3038775	0.18815632	3.0161772	21	—	—
473537 2015 XP_{171}	17.1	X	173.98458	139.77543	252.93288	1.39646	0.0762562	0.24535397	2.5270121	21	3 26.3	20.8
473538 2015 XR_{171}	16.4	X	95.90737	309.00882	76.49456	12.48584	0.0882280	0.20412708	2.8567285	21	—	—
473539 2015 XC_{172}	16.7	X	163.18620	259.98321	87.42126	13.09864	0.1968816	0.22454856	2.6807884	21	2 2.2	21.1
473540 2015 XN_{173}	15.8	X	243.97972	108.40426	106.56776	13.06103	0.0733002	0.19159548	2.9799745	21	—	—
473541 2015 XJ_{185}	17.6	X	155.17363	325.13258	145.39622	7.25226	0.0793181	0.26865696	2.3786871	21	6 16.5	20.9
473542 2015 XV_{188}	17.1	X	142.73634	328.38977	105.23734	8.96102	0.1733945	0.24488382	2.5302455	21	4 27.2	21.1
473543 2015 XO_{191}	16.7	X	32.94288	79.42514	78.98961	13.89971	0.1194963	0.22956977	2.6415545	21	3 14.1	19.9
473544 2015 XB_{192}	17.7	X	261.30457	220.67041	114.91885	2.18656	0.2044163	0.27011665	2.3701099	21	4 6.5	21.2
473545 2015 XO_{193}	17.6	X	86.79499	18.76208	111.63776	3.24905	0.1156932	0.24413190	2.5354382	21	4 23.9	20.7
473546 2015 XG_{195}	16.5	X	267.24849	163.31960	82.59570	9.37494	0.0372618	0.21338853	2.7734606	21	1 14.0	20.5
473547 2015 XX_{195}	18.6	X	184.51065	0.63436	100.31895	1.28242	0.1763668	0.27566251	2.3382140	21	7 6.7	22.1
473548 2015 XP_{196}	16.0	X	282.61326	6.49526	253.00587	25.31396	0.0863042	0.22948569	2.6421997	21	1 28.5	20.3
473549 2015 XS_{196}	15.6	X	285.81299	283.57859	249.42751	9.00614	0.0522863	0.18534112	3.0466427	21	—	—
473550 2015 XB_{197}	16.8	X	204.18531	246.12379	64.61113	5.23599	0.0443691	0.21785635	2.7354109	21	1 20.9	20.7
473551 2015 XL_{197}	17.3	X	127.82720	290.87947	82.20177	8.42652	0.2390894	0.21788570	2.7351652	21	2 4.5	21.5
473552 2015 XL_{201}	16.1	X	16.30149	347.31295	69.43017	12.71091	0.0429784	0.18097373	3.0954635	21	—	—
473553 2015 XQ_{201}	16.0	X	102.73309	107.76228	237.92419	9.97113	0.0974413	0.19325395	2.9629010	21	—	—
473554 2015 XH_{202}	16.9	X	80.43657	298.51845	96.96978	3.12617	0.0693247	0.20303527	2.8669606	21	—	—
473555 2015 XP_{203}	17.3	X	147.32631	265.82900	93.70772	4.36261	0.1194028	0.22184492	2.7025250	21	1 23.3	21.2
473556 2015 XU_{203}	17.2	X	343.67066	353.97488	88.00997	6.48579	0.1331867	0.17514071	3.1638166	21	—	—
473557 2015 XF_{206}	16.3	X	93.57424	282.11616	60.81384	10.59916	0.0987529	0.18609229	3.0384386	21	—	—
473558 2015 XJ_{207}	17.9	X	141.71742	174.40742	284.30830	1.75320	0.1661184	0.25616719	2.4553894	21	5 22.9	21.6
473559 2015 XC_{210}	16.9	X	138.01760	105.45720	249.75325	4.78289	0.0490565	0.20965054	2.8063299	21	—	—
473560 2015 XQ_{211}	18.0	X	42.07156	201.91998	69.95629	3.16994	0.1449033	0.29807663	2.2194776	21	9 15.9	20.2
473561 2015 XN_{212}	17.8	X	136.03543	40.46265	78.42551	5.86283	0.1328975	0.26106965	2.4245536	21	6 9.9	21.2
473562 2015 XL_{213}	15.9	X	184.76235	358.66177	259.65098	9.67740	0.0092884	0.18190963	3.0848373	21	—	—
473563 2015 XO_{214}	16.1	X	223.28003	26.42599	255.42326	17.82988	0.0699186	0.21385007	2.7694687	21	1 3.9	20.4
473564 2015 XE_{216}	16.2	X	214.87245	92.27969	248.27104	9.15005	0.0257144	0.23884428	2.5727218	21	3 2.4	20.0
473565 2015 XP_{216}	16.9	X	357.54961	299.97920	125.72723	2.49431	0.1228499	0.17411198	3.1762666	21	—	—
473566 2015 XA_{217}	15.8	X	272.94548	82.47399	76.45610	10.20205	0.0425468	0.17462626	3.1700274	21	12 30.7	20.2
473567 2015 XK_{217}	17.2	X	328.66726	236.30802	83.39823	7.44379	0.1571079	0.29134810	2.2535191	21	6 25.1	18.8
473568 2015 XD_{219}	17.1	X	121.99048	282.60550	105.94518	3.72491	0.1114061	0.22106821	2.7088514	21	1 28.9	20.7
473569 2015 XG_{220}	17.0	X	136.03956	132.51313	233.42786	5.47790	0.0052595	0.21293724	2.7773778	21	1 3.7	20.9
473570 2015 XG_{221}	17.2	X	318.51842	118.81531	92.76281	5.65902	0.0134917	0.22550599	2.6731951	21	2 4.6	20.9
473571 2015 XW_{222}	17.1	X	244.30943	257.83458	91.83008	7.35857	0.1211595	0.26312485	2.4119121	21	4 17.6	20.7
473572 2015 XC_{223}	15.9	X	20.45817	172.87849	237.12206	8.50172	0.0660147	0.17774869	3.1327935	21	—	—
473573 2015 XC_{224}	16.2	X	85.93452	243.30367	85.76850	9.83605	0.1226623	0.17518271	3.1633110	21	12 29.5	21.0
473574 2015 XP_{226}	16.8	X	50.82269	275.96201	143.12632	2.15156	0.1520534	0.19696468	2.9255699	21	—	—
473575 2015 XL_{228}	16.8	X	105.07084	262.81211	84.88021	9.98891	0.0660407	0.18995289	2.9971290	21	—	—
473576 2015 XS_{228}	17.3	X	31.50550	45.15100	95.45551	4.59911	0.0374649	0.22301115	2.6930950	21	2 9.4	20.7
473577 2015 XR_{229}	16.2	X	115.48541	81.08509	229.30910	8.56676	0.0789281	0.17702226	3.1413582	21	—	—
473578 2015 XD_{230}	16.8	X	179.76496	228.08881	82.87673	14.03256	0.2448267	0.21743792	2.7389191	21	1 6.3	21.5
473579 2015 XD_{231}	17.5	X	93.59756	23.68987	97.89658	7.69494	0.1042758	0.24189668	2.5510332	21	4 22.2	20.8
473580 2015 XW_{233}	17.1	X	69.59323	310.62384	97.13440	3.31198	0.0869159	0.19971573	2.8986417	21	—	—
473581 2015 XS_{234}	18.2	X	181.57353	45.02563	96.23189	4.24812	0.0580764	0.29502383	2.2347622	21	9 2.3	21.1
473582 2015 XZ_{234}	16.8	X	339.44179	22.43437	166.93369	2.38184	0.0317740	0.22074094	2.7115282	21	1 31.2	20.4
473583 2015 XE_{235}	16.7	X	295.51815	304.76323	237.00560	5.00709	0.0322119	0.19519267	2.9432493	21	—	—
473584 2015 XQ_{236}	16.8	X	341.77015	180.74232	250.66557	4.21497	0.1052863	0.16753164	3.2589034	21	12 14.7	20.7
473585 2015 XT_{237}	15.5	X	323.06130	168.86272	257.47628	14.10809	0.0829597	0.15612922	3.4157017	21	11 6.7	20.1
473586 2015 XU_{237}	16.3	X	195.17622	156.50877	83.39304	4.01495	0.0621876	0.17578297	3.1561055	21	—	—
473587 2015 XK_{238}	17.3	X	84.76276	230.76017	162.36434	2.39653	0.0762128	0.20455706	2.8527239	21	—	—
473588 2015 XO_{238}	17.5	X	45.70764	26.19406	117.65522	2.36903	0.0690700	0.23308641	2.6149180	21	3 5.0	20.6
473589 2015 XV_{242}	16.8	X	3.06390	343.96403	134.74100	2.76689	0.0291505	0.19908930	2.9047189	21	—	—
473590 2015 XR_{243}	17.3	X	45.11610	318.15371	122.72468	3.01953	0.0428857	0.20107196	2.8855928	21	—	—
473591 2015 XB_{245}	16.0	X	344.12377	269.33358	234.91112	14.23250	0.2477069	0.17627933	3.1501782	21	—	—
473592 2015 XO_{245}	15.7	X	15.01810	218.01131	241.44398	12.87310	0.1246808	0.17574702	3.1565360	21	—	—
473593 2015 XQ_{245}	16.6	X	96.64810	212.86007	249.89584	14.23290	0.0757482	0.21656582	2.7462671	21	3 20.6	20.6
473594 2015 XR_{245}	16.5	X	24.81232	177.87796	265.04245	16.62342	0.1842370	0.17486809	3.1671041	21	—	—
473595 2015 XU_{245}	16.7	X	114.96323	305.86105	219.08500	6.24398	0.0708146	0.25285837	2.4767633	21	7 9.5	20.1
473596 2015 XA_{246}	16.5	X	131.23989	299.03820	148.35353	13.50676	0.1406792	0.22740976	2.6582551	21	5 1.3	20.7
473597 2015 XH_{257}	15.6	X	145.24730	44.65743	246.92464	17.04005	0.1621883	0.18558394	3.0439847	21	—	—
473598 2015 XD_{258}	17.4	X	138.10099	64.59304	316.25489	1.43239	0.0632415	0.22078667	2.7111538	21	1 31.8	21.1
473599 2015 XK_{258}	15.7	X	150.88548	20.88003	258.78564	15.05382	0.0907909	0.17644185	3.1482434	21	—	—
473600 2015 XU_{258}	17.0	X	38.95026	24.11445	54.38884	2.89032	0.0501855	0.19803819	2.9149878	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
473601 2015 XJ_{259}	17.7	X	70.55029	115.44212	21.10557	3.51802	0.1561862	0.23295074	2.6159332	21	4 13.5	20.7
473602 2015 XW_{260}	15.7	X	323.44280	224.72444	255.14051	13.69489	0.0988613	0.15460574	3.4381036	21	—	—
473603 2015 XY_{262}	16.4	X	155.17059	318.46274	81.91442	18.65759	0.1813961	0.23464023	2.6033610	21	4 5.6	20.9
473604 2015 XX_{264}	16.0	X	10.03450	162.76248	262.71515	8.65284	0.0371698	0.18047086	3.1012111	21	—	—
473605 2015 XZ_{264}	15.5	X	109.52834	54.41570	264.07476	9.22526	0.0393156	0.17869512	3.1217222	21	—	—
473606 2015 XT_{265}	17.3	X	356.70183	356.27710	279.33608	4.97277	0.1146152	0.27868853	2.3212575	21	6 15.9	19.2
473607 2015 XB_{266}	16.6	X	340.89581	42.18318	36.33756	4.04010	0.2058006	0.17113290	3.2130221	21	12 27.3	20.0
473608 2015 XV_{268}	17.4	X	36.62587	63.44728	66.71686	3.22150	0.0287716	0.22175701	2.7032392	21	2 3.0	20.9
473609 2015 XB_{269}	16.9	X	80.34347	110.82523	282.33847	0.82246	0.0626154	0.19903040	2.9052919	21	—	—
473610 2015 XK_{273}	16.2	X	126.73655	64.20421	249.79289	8.82203	0.0947754	0.18489881	3.0514995	21	—	—
473611 2015 XX_{273}	17.6	X	195.32278	59.76191	100.65240	5.43570	0.0626275	0.31139936	2.1557128	21	10 19.4	20.3
473612 2015 XS_{274}	16.7	X	60.44699	138.21136	211.72368	1.50993	0.0900184	0.16991420	3.2283673	21	12 21.4	21.4
473613 2015 XT_{274}	16.2	X	178.61919	163.91881	87.06437	6.81058	0.1304202	0.17327774	3.1864532	21	12 25.2	21.2
473614 2015 XA_{276}	17.0	X	358.36684	329.48138	117.85691	2.18489	0.1604032	0.18400170	3.0614100	21	—	—
473615 2015 XP_{276}	15.7	X	66.06636	89.55984	261.58957	11.54032	0.0536430	0.17340541	3.1848889	21	12 24.9	20.2
473616 2015 XT_{277}	15.9	X	100.79264	82.67612	241.23808	8.33420	0.0776547	0.17662129	3.1461108	21	—	—
473617 2015 XV_{278}	18.0	X	162.88381	261.01550	163.36713	1.56738	0.1641035	0.25600210	2.4564449	21	4 30.2	21.7
473618 2015 XD_{279}	17.4	X	6.65546	271.11729	153.27065	1.40672	0.1738073	0.18042157	3.1017758	21	—	—
473619 2015 XO_{279}	14.3	X	250.25404	112.04446	225.39049	4.82078	0.0557056	0.08327434	5.1935214	21	4 26.4	21.2
473620 2015 XZ_{284}	17.4	X	164.66758	283.48880	87.00942	2.79705	0.0720230	0.23171108	2.6252551	21	2 18.9	21.1
473621 2015 XA_{287}	16.2	X	38.20620	344.97255	77.70864	8.76942	0.0924619	0.19187985	2.9770294	21	—	—
473622 2015 XJ_{289}	18.3	X	148.50883	321.62199	142.78620	1.60729	0.1486069	0.26095803	2.4252450	21	6 5.5	21.8
473623 2015 XA_{292}	18.0	X	352.32960	70.11177	215.43510	1.93825	0.0241249	0.27786886	2.3258201	21	6 26.7	20.5
473624 2015 XL_{293}	16.8	X	334.37968	96.42555	42.37690	1.54878	0.0935177	0.19117682	2.9843234	21	—	—
473625 2015 XO_{293}	18.1	X	192.66635	30.14125	17.60704	0.87475	0.1611392	0.26203048	2.4186230	21	5 5.9	22.0
473626 2015 XU_{297}	17.5	X	64.19218	59.04438	64.27936	2.91107	0.1111447	0.22878879	2.6475625	21	3 11.8	20.5
473627 2015 XT_{298}	17.7	X	140.92714	240.91172	249.56571	6.66441	0.0638111	0.27241342	2.3567692	21	6 24.6	20.9
473628 2015 XS_{306}	16.0	X	177.23862	173.92613	60.93530	5.97291	0.0316546	0.16809623	3.2516021	21	12 9.0	20.8
473629 2015 XC_{308}	16.8	X	27.36781	252.90920	210.72199	15.70952	0.1643300	0.18496400	3.0507824	21	—	—
473630 2015 XX_{308}	16.3	X	33.42311	312.63404	69.97457	6.49161	0.1278410	0.17864623	3.1222918	21	—	—
473631 2015 XC_{309}	15.8	X	326.94302	35.35264	71.13488	13.67140	0.0521851	0.17978327	3.1091131	21	—	—
473632 2015 XN_{309}	16.5	X	351.18086	203.62275	259.22014	15.52583	0.1830239	0.18214466	3.0821830	21	—	—
473633 2015 XK_{310}	16.5	X	147.82031	260.73606	64.22511	4.54124	0.0436778	0.19675940	2.9276044	21	—	—
473634 2015 XL_{311}	16.9	X	192.59829	239.34400	125.07218	3.21894	0.1297476	0.24285819	2.5442955	21	3 14.6	20.9
473635 2015 XX_{312}	16.4	X	208.48322	222.43213	81.19389	17.45082	0.0673895	0.21610243	2.7501916	21	1 17.7	20.6
473636 2015 XP_{313}	15.8	X	79.53778	266.25291	83.14583	12.16398	0.0871173	0.17771620	3.1331753	21	—	—
473637 2015 XC_{314}	17.5	X	262.34166	273.47467	74.60091	6.58522	0.1766320	0.27131761	2.3631106	21	4 27.5	20.9
473638 2015 XR_{314}	17.2	X	166.75157	70.34006	261.14863	10.53489	0.1195190	0.21317369	2.7753237	21	1 9.5	21.4
473639 2015 XN_{315}	18.1	X	190.13775	118.37693	309.88886	0.72563	0.1645781	0.26662390	2.3907637	21	5 30.0	21.8
473640 2015 XC_{316}	17.1	X	181.08320	87.22754	279.32685	2.30623	0.1206550	0.23630344	2.5911309	21	3 4.1	21.1
473641 2015 XO_{316}	16.7	X	155.72620	277.98953	87.75052	7.07656	0.0555694	0.22212693	2.7002371	21	2 3.2	20.6
473642 2015 XS_{318}	17.2	X	108.68292	167.11870	230.45166	3.82195	0.0762937	0.21370158	2.7707514	21	1 18.4	20.9
473643 2015 XD_{321}	15.4	X	252.61675	111.80519	86.54647	14.99847	0.0719536	0.18007816	3.1057180	21	—	—
473644 2015 XA_{322}	17.4	X	315.29247	44.72461	100.73217	1.83683	0.1066625	0.18273740	3.0755143	21	—	—
473645 2015 XQ_{322}	16.4	X	177.39320	262.10904	86.82932	7.34440	0.0742368	0.22441891	2.6818208	21	2 8.6	20.3
473646 2015 XU_{325}	15.9	X	250.35572	193.00775	89.90541	16.67972	0.1106966	0.22668561	2.6639133	21	2 3.3	20.1
473647 2015 XL_{327}	16.7	X	110.16734	229.14314	102.86703	2.96951	0.0671797	0.18233061	3.0800870	21	—	—
473648 2015 XC_{330}	16.4	X	135.55679	21.04814	312.18435	1.09598	0.0902088	0.19655429	2.9296408	21	—	—
473649 2015 XN_{332}	16.6	X	50.10713	130.82631	265.84052	4.44504	0.1356796	0.18520782	3.0481044	21	—	—
473650 2015 XS_{332}	16.3	X	103.61742	270.47242	78.88906	8.93083	0.2274715	0.19550689	2.9400948	21	—	—
473651 2015 XL_{334}	17.7	X	154.86180	314.39266	99.61063	4.92001	0.1622185	0.24347455	2.5399997	21	4 11.9	21.6
473652 2015 XV_{334}	16.0	X	94.93039	257.44240	96.01551	12.24595	0.1705685	0.19064423	2.9898790	21	—	—
473653 2015 XA_{335}	16.2	X	309.50127	252.07325	239.96558	8.28777	0.1075113	0.17271947	3.1933157	21	—	—
473654 2015 XD_{335}	17.1	X	271.65111	143.61990	216.54561	5.27271	0.0732007	0.27488593	2.3426156	21	6 6.9	19.9
473655 2015 XF_{337}	18.2	X	255.21692	162.03393	203.02627	0.49846	0.1950546	0.27546648	2.3393231	21	5 8.2	21.5
473656 2015 XW_{337}	16.5	X	195.42735	214.16579	82.32095	7.76397	0.0386759	0.20236275	2.8733090	21	—	—
473657 2015 XZ_{337}	17.6	X	146.15731	318.66517	80.56742	3.60557	0.0643654	0.23007653	2.6376743	21	3 5.9	21.3
473658 2015 XB_{342}	17.0	X	349.66372	108.54280	86.23353	13.99536	0.1605692	0.22042786	2.7140951	21	2 9.8	20.3
473659 2015 XM_{343}	16.0	X	55.05871	144.31769	244.42612	9.77803	0.0780675	0.18271845	3.0757270	21	—	—
473660 2015 XP_{343}	16.4	X	13.26096	187.81557	234.20144	8.51338	0.0733128	0.17639808	3.1487643	21	—	—
473661 2015 XK_{344}	18.3	X	313.24754	114.09835	219.00232	2.70574	0.1418703	0.28631264	2.2798645	21	6 18.9	20.4
473662 2015 XX_{344}	17.4	X	308.88191	40.44998	266.94019	5.67836	0.2540704	0.27600518	2.3362782	21	4 11.8	20.4
473663 2015 XJ_{347}	16.5	X	56.65778	261.24077	252.74164	12.47897	0.1324775	0.23268560	2.6179201	21	4 6.3	19.6
473664 2015 XS_{347}	17.1	X	283.91858	58.89682	125.17926	2.88474	0.0953735	0.18313350	3.0710780	21	—	—
473665 2015 XT_{347}	17.2	X	108.04863	245.15734	133.53803	2.93875	0.0793900	0.20201570	2.8765988	21	—	—
473666 2015 XA_{348}	17.9	X	178.23003	358.93070	90.84171	3.59437	0.1504879	0.26761807	2.3848391	21	6 15.8	21.4
473667 2015 XE_{348}	15.9	X	301.42533	260.70137	265.90540	14.05772	0.1700807	0.17991916	3.1075475	21	—	—
473668 2015 XA_{350}	15.9	X	332.09225	219.89482	258.25818	8.41763	0.0780476	0.18562630	3.0435215	21	—	—
473669 2015 XD_{350}	17.5	X	171.52158	162.89386	257.69063	6.48764	0.1162792	0.25879886	2.4387155	21	4 29.1	21.1
473670 2015 XP_{350}	15.6	X	184.97268	196.69229	65.88966	11.90378	0.0706983	0.18335328	3.0686234	21	—	—
473671 2015 XB_{351}	17.5	X	187.86405	156.38205	291.87823	3.96434	0.0774431	0.27538910	2.3397613	21	6 24.1	20.8
473672 2015 XH_{353}	17.0	X	59.45177	0.21879	23.77733	1.23933	0.2566799	0.18951886	3.0017032	21	—	—
473673 2015 XB_{355}	15.9	X	351.38817	173.67258	254.77917	7.71309	0.1363778	0.17422731	3.1748647	21	12 29.2	19.7
473674 2015 XE_{355}	16.3	X	10.24832	162.40605	274.34652	4.53332	0.1158497	0.18567808	3.0429557	21	—	—
473675 2015 XT_{355}	17.4	X	107.02613	146.08844	312.19102	2.46661	0.1119008	0.23812983	2.5778650	21	4 5.5	20.9
473676 2015 XT_{356}	16.7	X	299.64150	70.53328	120.95666	8.73295	0.0608384	0.21091162	2.7951323	21	—	—
473677 2015 XZ_{364}	16.5	X	255.02795	151.75408	63.02160	10.54904	0.0247284	0.18886706	3.0086054	21	—	—
473678 2015 XH_{368}	16.8	X	25.60891	172.19572	274.30367	9.06604	0.0774351	0.19181997	2.9776490	21	—	—
473679 2015 XY_{369}	17.1	X	50.27190	138.18569	280.51463	5.26300	0.2340340	0.19607215	2.9344414	21	—	—
473680 2015 XH_{370}	17.3	X	90.24658	193.23838	272.32184	9.71315	0.0939725	0.23186503	2.6240930	21	3 16.9	20.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
473681 2015 XM_{372}	16.5	X	40.00306	131.60757	281.28221	10.04677	0.1955525	0.18853790	3.0121061	21	—	—
473682 2015 XZ_{373}	15.8	X	79.96937	88.76674	270.46034	9.24872	0.1115432	0.18419179	3.0593033	21	—	—
473683 2015 XU_{374}	17.2	X	149.32682	60.62062	350.59083	2.78401	0.2076408	0.24070175	2.5594691	21	4 3.9	21.3
473684 2015 XU_{379}	13.8	X	293.39727	249.53531	87.20224	9.46934	0.0433788	0.08187296	5.2526168	21	6 15.0	20.5
473685 2015 XZ_{379}	15.8	X	36.19488	285.84859	130.74111	23.99479	0.1575353	0.17756316	3.1349755	21	—	—
473686 2015 XG_{380}	16.1	X	33.78249	284.68565	99.10760	10.27468	0.0762279	0.17348886	3.1838675	21	12 28.2	20.4
473687 2015 XL_{380}	17.1	X	135.15977	193.80875	240.62505	6.19964	0.1727921	0.23483848	2.6018956	21	4 15.5	21.1
473688 2015 XM_{380}	15.6	X	59.27199	256.88147	143.17524	11.25625	0.0978893	0.17799149	3.1299439	21	—	—
473689 2015 XP_{380}	17.5	X	52.39254	324.10120	117.13758	24.36935	0.0694813	0.36585745	1.9361015	21	—	—
473690 2015 XG_{381}	15.8	X	105.14277	175.82000	150.42692	22.04691	0.0444020	0.17570615	3.1570254	21	—	—
473691 2015 XY_{382}	15.4	X	348.06054	198.12079	284.05881	16.69628	0.1620901	0.18005768	3.1059535	21	—	—
473692 2015 XN_{384}	16.1	X	18.57071	347.61185	97.72181	10.37451	0.1937887	0.18284697	3.0742856	21	—	—
473693 2015 YW	15.9	X	193.58816	326.05412	21.47778	13.54521	0.1695989	0.24059956	2.5601937	21	2 28.9	20.2
473694 2015 YU_{3}	18.5	X	260.21285	235.44056	201.62396	3.74411	0.1237253	0.30352363	2.1928439	21	9 2.9	21.1
473695 2015 YL_{4}	17.0	X	164.55209	257.04280	272.56955	20.66827	0.2864356	0.27270241	2.3551039	21	9 3.3	21.7
473696 2015 YA_{5}	17.2	X	150.72093	201.61096	271.54589	8.33766	0.1628734	0.26445669	2.4038075	21	6 20.0	20.8
473697 2015 YM_{6}	16.8	X	144.13724	349.84388	132.23133	7.65123	0.1046634	0.25787172	2.4445574	21	6 21.3	20.4
473698 2015 YP_{6}	15.5	X	44.14524	161.53898	271.50580	10.04297	0.0583364	0.18688151	3.0298781	21	—	—
473699 2015 YR_{6}	17.0	X	94.02988	274.18644	226.16776	3.40751	0.1034337	0.23861658	2.5743582	21	5 15.1	20.4
473700 2015 YS_{6}	15.6	X	105.85747	90.44555	277.17231	16.90259	0.0577288	0.18353565	3.0665903	21	—	—
473701 2015 YT_{6}	15.8	X	320.71797	45.03815	113.23330	18.43287	0.0969448	0.17967759	3.1103321	21	—	—
473702 2015 YL_{8}	18.3	X	237.75847	243.37492	184.81075	1.64645	0.1903365	0.28390929	2.2927127	21	7 14.1	21.7
473703 2015 YP_{8}	15.8	X	20.58338	302.71308	111.92348	10.60622	0.1816726	0.17068649	3.2186218	21	—	—
473704 2015 YQ_{8}	16.1	X	31.49630	275.72945	121.18019	15.83421	0.2881491	0.17036360	3.2226874	21	—	—
473705 2015 YW_{8}	16.4	X	340.53296	248.93988	272.43177	12.91196	0.2531728	0.18334902	3.0686710	21	—	—
473706 2015 YX_{8}	16.9	X	37.04244	57.02035	114.83109	5.44706	0.0826320	0.22181659	2.7027551	21	4 3.3	20.1
473707 2015 YK_{9}	16.7	X	187.34719	293.26501	111.84343	15.42662	0.0938498	0.24240376	2.5474743	21	5 4.7	20.8
473708 2015 YA_{11}	15.9	X	115.74376	122.00260	258.19203	10.89592	0.0692517	0.19662021	2.9289859	21	1 8.0	20.0
473709 2015 YC_{11}	17.3	X	110.02921	302.00189	232.63238	2.65736	0.1166553	0.26137279	2.4226786	21	7 23.1	20.7
473710 2015 YD_{16}	16.2	X	18.47245	42.78098	19.99421	15.53413	0.2067086	0.17201639	3.2020111	21	—	—
473711 2015 YR_{16}	16.9	X	300.18404	241.47629	54.82431	12.54872	0.0368422	0.24138345	2.5546479	21	4 28.1	20.1
473712 2015 YG_{17}	17.4	X	83.21133	165.27694	351.60045	13.70137	0.1820242	0.23426841	2.6061149	21	6 1.6	21.1
473713 2015 YF_{18}	18.5	X	318.70484	231.46083	136.65042	1.55516	0.2036279	0.29708414	2.2244180	21	8 19.8	19.8
473714 2015 YH_{18}	15.8	X	39.78049	150.74367	266.51374	9.42649	0.1514382	0.18002739	3.1063019	21	—	—
473715 2015 YR_{18}	17.4	X	155.11895	356.58585	86.68851	12.11735	0.2102912	0.25709655	2.4494686	21	5 21.5	21.4
473716 2015 YV_{18}	16.5	X	108.15905	109.44046	273.64853	4.21229	0.1333164	0.20958134	2.8069476	21	1 9.5	20.1
473717 2015 YW_{18}	17.7	X	198.50324	151.43461	255.08980	3.84421	0.2260210	0.26488570	2.4012113	21	5 8.9	21.7
473718 2015 YU_{20}	13.6	X	299.15578	337.12871	4.36303	27.88832	0.0449731	0.08386232	5.1692174	21	6 29.2	20.7
473719 2016 AA	15.3	X	60.09411	153.46162	17.57915	19.20811	0.1948663	0.24517807	2.5282206	21	5 13.5	18.3
473720 2016 AP_{3}	15.5	X	21.23833	322.71546	80.89272	10.94364	0.0474987	0.17411847	3.1761877	21	—	—
473721 2016 AY_{116}	18.4	X	204.62850	270.60500	198.25323	0.63231	0.1381109	0.27326926	2.3518459	21	8 7.4	21.8
473722 2016 AF_{119}	17.7	X	120.51711	99.20622	135.98846	5.29215	0.1004451	0.28404335	2.2919913	21	10 28.4	20.9
473723 2016 AS_{121}	17.5	X	218.84718	148.44951	321.30269	6.56869	0.0594361	0.27739827	2.3284498	21	8 31.9	20.6
473724 2016 AV_{131}	17.2	X	45.65714	325.53932	193.52620	6.58710	0.0724876	0.21837274	2.7310969	21	3 26.9	20.6
473725 2016 BX_{6}	16.1	X	333.33183	251.16141	292.28068	9.53880	0.2144455	0.17659616	3.1464092	21	1 1.2	20.2
473726 2016 BU_{12}	17.3	X	227.08255	172.05362	294.38401	6.92626	0.1370779	0.27735914	2.3286688	21	8 26.8	20.6
473727 2016 BO_{81}	16.3	X	11.08949	178.54827	342.85453	11.18272	0.1314762	0.18295313	3.0730961	21	2 12.3	20.0
473728 2016 CR_{27}	17.2	X	184.06749	40.18421	97.42530	7.70633	0.0568338	0.26890797	2.3772066	21	8 30.8	20.5
473729 2016 CE_{58}	17.8	X	144.83910	68.58069	79.75312	6.16993	0.1601229	0.25762413	2.4461234	21	7 31.8	21.6
473730 2016 CG_{123}	18.2	X	215.86601	245.44827	271.06876	3.64105	0.1220821	0.29738134	2.2229357	21	10 26.1	21.0
473731 2016 CQ_{189}	16.7	X	99.42531	194.83085	3.77276	5.64438	0.2448455	0.23702277	2.5858857	21	8 28.1	20.7
473732 2016 CY_{200}	16.7	X	16.10933	139.78451	332.56501	8.81575	0.1725860	0.17828353	3.1265250	21	—	—
473733 2016 CZ_{204}	17.3	X	134.70366	262.81669	272.00912	1.51329	0.1309258	0.26208926	2.4182613	21	8 21.9	20.9
473734 2016 CL_{222}	17.2	X	71.92507	14.93550	225.97716	1.54250	0.1900490	0.25500434	2.4628483	21	9 14.8	20.4
473735 2016 CG_{256}	17.7	X	165.01812	75.18548	91.35119	8.22346	0.0809909	0.27708773	2.3301892	21	9 17.9	21.1
473736 2016 CB_{261}	16.8	X	52.42902	38.86628	222.91353	10.89151	0.1525130	0.23324048	2.6137664	21	9 5.1	20.2
473737 2016 DE_{22}	16.1	X	43.72633	94.60303	354.08089	10.03331	0.0980760	0.17489440	3.1667865	21	1 5.2	20.3
473738 2016 DV_{24}	16.1	X	30.56444	344.53843	145.43458	12.86501	0.0993357	0.18633090	3.0358440	21	1 31.6	19.8
473739 2016 DU_{25}	15.5	X	268.44644	143.68927	134.95713	11.29251	0.0690007	0.19311973	2.9642736	21	2 25.1	19.8
473740 2016 DB_{28}	15.7	X	292.97836	191.98787	24.61222	29.72441	0.1840090	0.17412130	3.1761532	21	—	—
473741 2016 ES_{4}	17.0	X	347.33989	337.27591	276.76699	4.90055	0.1075989	0.21179226	2.7873788	21	4 30.4	20.3
473742 2016 EV_{4}	17.6	X	109.10880	141.02072	29.15855	4.90037	0.1461280	0.23668478	2.5883470	21	7 21.2	21.4
473743 2016 EW_{4}	17.6	X	147.03418	187.95653	18.17466	9.60545	0.0586150	0.27173604	2.3606842	21	10 14.5	20.6
473744 2016 EA_{5}	17.5	X	101.80130	289.36995	300.61536	1.65818	0.1601027	0.25602422	2.4563034	21	9 30.2	21.2
473745 2016 EA_{7}	16.8	X	101.46149	341.76893	124.46344	12.07251	0.2511738	0.21919607	2.7242536	21	5 7.1	21.0
473746 2016 EO_{9}	17.1	X	320.94038	310.65903	330.78009	8.87173	0.1953645	0.21780719	2.7358224	21	4 8.8	20.5
473747 2016 EZ_{10}	16.1	X	306.26171	299.95927	45.52422	14.91604	0.1421801	0.24664431	2.5181909	21	6 25.6	19.2
473748 2016 EB_{11}	15.8	X	126.59203	338.92743	64.74974	12.70254	0.1148455	0.18967588	3.0000465	21	3 5.7	20.4
473749 2016 EW_{12}	15.7	X	264.98356	211.63768	57.71193	15.70308	0.2257895	0.17312475	3.1883300	21	2 1.7	21.1
473750 2016 EJ_{15}	16.0	X	338.06505	75.47065	102.51372	17.25028	0.1000949	0.17489729	3.1667516	21	1 17.3	20.1
473751 2016 EK_{17}	15.8	X	209.54332	240.94552	93.23311	17.80808	0.0980331	0.18490504	3.0514310	21	3 6.9	20.8
473752 2016 EL_{17}	15.9	X	59.10666	309.83800	144.44873	28.87372	0.2060831	0.18220829	3.0814653	21	2 12.3	19.4
473753 2016 EB_{18}	16.8	X	326.00595	244.06855	76.83826	13.80696	0.2968769	0.23425347	2.6062257	21	5 30.8	19.2
473754 2016 EC_{30}	15.8	X	262.88655	145.73506	126.92211	17.57653	0.0593992	0.18595165	3.0399704	21	2 13.6	20.3
473755 2016 EY_{32}	16.4	X	173.46966	318.80779	129.79231	15.56877	0.1227576	0.23766433	2.5812301	21	6 12.1	20.6
473756 2016 EZ_{32}	17.6	X	91.76886	120.27729	45.47748	12.00965	0.1159047	0.22977673	2.6399681	21	6 16.9	21.2
473757 2016 EB_{37}	17.0	X	16.48338	55.65491	209.57824	14.22912	0.0758311	0.22944170	2.6425375	21	7 4.6	20.5
473758 2016 ES_{37}	16.9	X	80.03312	61.88962	148.36444	13.62288	0.2035492	0.22651133	2.6652795	21	8 14.9	20.5
473759 2016 EH_{45}	16.1	X	275.82258	23.86865	204.12948	10.08197	0.0498474	0.17646538	3.1479636	21	1 6.2	20.8
473760 2016 EC_{46}	16.8	X	212.91199	280.46326	88.12491	11.37723	0.1979837	0.21452203	2.7636823	21	4 13.7	21.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
473761 2016 EG_{50}	16.6	X	142.56615	300.21588	119.91481	15.45200	0.2137084	0.21326133	2.7745633	21	4 18.9	21.4
473762 2016 EX_{53}	15.8	X	205.50465	98.98578	232.07217	7.88683	0.0667650	0.17401986	3.1773874	21	2 18.5	20.7
473763 2016 EL_{54}	16.5	X	177.17301	86.51147	0.19897	21.78754	0.0851317	0.22632923	2.6667089	21	6 6.3	21.0
473764 2016 EP_{54}	16.3	X	102.35798	307.68440	153.67482	9.87780	0.0534051	0.18269408	3.0760005	21	4 5.4	20.7
473765 2016 EV_{57}	17.5	X	88.06012	173.48646	56.67099	2.36350	0.1387314	0.26051875	2.4279704	21	9 15.2	20.7
473766 2016 EE_{58}	17.2	X	165.86609	279.13552	127.68714	7.55096	0.0246859	0.21451554	2.7637380	21	4 7.9	21.1
473767 2016 EN_{59}	18.2	X	339.91988	195.54238	204.90825	3.25351	0.1123608	0.30125068	2.2038601	21	12 5.6	20.0
473768 2016 EQ_{60}	17.4	X	150.44425	339.07921	134.80685	5.28773	0.0618887	0.24081020	2.5587006	21	6 14.7	21.1
473769 2016 EJ_{65}	16.4	X	9.14813	137.17994	29.78613	9.80953	0.0357646	0.17513747	3.1638557	21	2 24.6	20.8
473770 2016 ES_{65}	16.3	X	207.90984	336.87545	6.69746	9.30413	0.0650040	0.17783434	3.1317876	21	3 12.2	21.0
473771 2016 EU_{68}	16.0	X	66.90062	321.94940	100.68871	12.38825	0.1640094	0.17320399	3.1873576	21	1 13.5	19.9
473772 2016 EP_{70}	16.1	X	31.85253	262.48685	216.42435	15.21133	0.2466254	0.17642536	3.1484397	21	1 19.9	19.5
473773 2016 EK_{73}	17.5	X	88.90436	163.00623	87.76439	4.67307	0.1645001	0.26104767	2.4246897	21	10 17.5	21.0
473774 2016 EG_{76}	18.3	X	92.55627	102.14971	175.01944	4.63816	0.1404933	0.28504961	2.2865941	21	11 23.8	21.5
473775 2016 EM_{77}	16.9	X	330.07202	234.36528	348.65102	4.88060	0.0634227	0.19650247	2.9301558	21	3 3.6	20.8
473776 2016 EQ_{78}	16.3	X	335.21038	261.31317	271.96737	11.74353	0.2622935	0.17567000	3.1574585	21	—	—
473777 2016 EW_{78}	16.2	X	112.94109	130.01141	27.38756	21.86299	0.0192220	0.22303419	2.6929095	21	6 17.3	20.3
473778 2016 EO_{79}	16.4	X	50.79092	195.70801	18.39796	15.28948	0.2071496	0.22475460	2.6791497	21	7 13.6	19.8
473779 2016 EX_{79}	16.9	X	355.16952	154.28954	140.66010	11.08144	0.0601197	0.23897821	2.5717604	21	7 14.0	20.1
473780 2016 EH_{80}	16.4	X	4.43440	18.18079	104.16978	11.70080	0.1965571	0.17299699	3.1898997	21	—	—
473781 2016 EA_{81}	16.1	X	210.59788	307.83677	13.49550	16.23119	0.1376424	0.18627548	3.0364462	21	2 20.0	21.2
473782 2016 EY_{81}	16.0	X	280.80692	178.96840	77.54235	11.64382	0.0662600	0.18876140	3.0097281	21	2 16.2	20.5
473783 2016 EF_{82}	16.0	X	133.88653	334.47614	60.27234	11.74256	0.0889427	0.19034885	2.9929713	21	2 27.0	20.6
473784 2016 EM_{82}	17.5	X	30.92871	234.97092	103.51127	9.82307	0.1803728	0.28802739	2.2708068	21	12 8.2	20.2
473785 2016 EX_{85}	17.8	X	122.43957	70.02777	349.49914	18.73531	0.1304381	0.38268021	1.8789363	21	2 16.6	19.4
473786 2016 EB_{87}	17.6	X	209.07046	62.67598	51.18653	5.52673	0.0940157	0.26438335	2.4042520	21	8 25.2	21.0
473787 2016 EE_{87}	16.0	X	335.63306	164.27069	67.38471	7.81970	0.0884219	0.19523436	2.9428303	21	3 23.4	19.9
473788 2016 EO_{87}	17.6	X	100.64531	100.47516	147.55189	6.13056	0.0563925	0.26116865	2.4239408	21	10 15.6	20.8
473789 2016 EV_{87}	16.2	X	14.59321	15.18738	148.98684	10.38545	0.0741034	0.17571426	3.1569282	21	2 23.2	20.3
473790 2016 EY_{87}	17.5	X	121.77211	180.74735	121.24633	7.30235	0.1919151	0.29175874	2.2514042	21	—	—
473791 2016 EZ_{87}	16.0	X	21.29776	0.03674	143.03666	11.50343	0.1337911	0.17126322	3.2113920	21	2 6.2	19.6
473792 2016 EN_{88}	16.9	X	62.21210	187.37981	23.13427	7.66698	0.1219846	0.23024447	2.6363915	21	7 10.7	20.3
473793 2016 EH_{89}	17.4	X	93.40679	296.15327	170.67095	4.37493	0.0694505	0.20932672	2.8092234	21	3 28.7	21.0
473794 2016 EK_{89}	17.7	X	334.77158	8.74420	329.34340	5.49083	0.0751749	0.26334909	2.4105428	21	8 14.2	20.0
473795 2016 EG_{90}	16.1	X	278.18471	228.62173	40.76809	6.64577	0.0827014	0.18320366	3.0702939	21	2 26.4	20.6
473796 2016 EY_{90}	16.7	X	324.40928	218.62197	93.12181	9.96951	0.1643432	0.23846525	2.5754472	21	6 5.7	19.3
473797 2016 EY_{91}	15.4	X	150.00821	329.64382	16.33331	17.35262	0.0094150	0.17196644	3.2026311	21	1 9.5	20.3
473798 2016 EZ_{91}	17.1	X	169.45552	309.30065	96.82812	10.60215	0.0513083	0.21487749	2.7606336	21	4 15.2	21.3
473799 2016 EK_{92}	15.8	X	169.30017	256.05096	72.87380	10.34490	0.1836892	0.16933849	3.2356802	21	1 23.1	21.2
473800 2016 EM_{95}	17.6	X	65.75945	176.75028	83.22300	6.87171	0.1181681	0.26057770	2.4276043	21	9 27.4	20.8
473801 2016 EF_{97}	16.1	X	335.69216	43.62510	127.64122	17.81255	0.1058056	0.17444241	3.1722544	21	1 5.3	20.5
473802 2016 EH_{101}	17.2	X	114.78537	31.43083	109.27414	8.35149	0.1540846	0.23370098	2.6103317	21	6 18.5	21.0
473803 2016 EB_{106}	16.8	X	176.14207	271.18668	130.09334	14.61287	0.1854651	0.22229078	2.6989101	21	4 22.2	21.5
473804 2016 ED_{106}	17.2	X	159.53631	291.41053	130.03662	11.86942	0.1337567	0.22237026	2.6982669	21	4 28.0	21.6
473805 2016 EG_{108}	17.6	X	150.13415	196.94055	17.66944	2.35626	0.1434422	0.26667823	2.3904391	21	10 28.6	21.3
473806 2016 EM_{108}	17.5	X	173.54531	51.19988	128.45512	7.67625	0.0491926	0.28025396	2.3126055	21	10 16.3	20.6
473807 2016 EU_{108}	15.7	X	181.75671	5.46808	1.55263	12.05803	0.0416179	0.19975298	2.8982813	21	3 9.2	19.8
473808 2016 EK_{109}	16.1	X	307.22154	100.39962	117.71768	9.62944	0.0542321	0.18245622	3.0786733	21	1 31.3	20.4
473809 2016 EV_{109}	15.9	X	255.46074	245.16201	29.93587	16.43131	0.1741800	0.17513170	3.1639252	21	2 5.9	21.3
473810 2016 EF_{110}	17.4	X	59.53504	108.15285	67.70961	4.35074	0.1300117	0.21687114	2.7436890	21	5 18.9	20.5
473811 2016 EN_{110}	17.6	X	193.01314	122.42476	65.02594	6.57143	0.1245675	0.29045973	2.2581117	21	11 11.1	20.8
473812 2016 EQ_{110}	16.0	X	63.13742	277.56256	185.85918	25.99893	0.2087212	0.18119878	3.0928999	21	3 1.4	19.8
473813 2016 EB_{111}	17.7	X	126.52399	31.37867	226.49382	1.73108	0.1451408	0.28419581	2.2911715	21	12 2.1	20.9
473814 2016 EO_{111}	16.1	X	340.99176	260.39119	13.73126	14.07941	0.0250104	0.22151712	2.7051905	21	5 21.9	19.9
473815 2016 EJ_{112}	16.8	X	82.02481	353.48584	157.34391	5.64213	0.0574585	0.21846676	2.7303132	21	5 8.8	20.4
473816 2016 EK_{112}	16.8	X	10.20519	27.00472	97.40499	2.03609	0.1865646	0.17428836	3.1741233	21	—	—
473817 2016 EX_{113}	16.7	X	11.34871	14.36453	125.35726	4.52000	0.1570865	0.17973797	3.1096356	21	1 12.6	20.3
473818 2016 EA_{114}	16.2	X	335.84405	163.28560	2.24461	15.67074	0.0477288	0.17101255	3.2145294	21	1 9.7	20.9
473819 2016 EF_{114}	17.2	X	35.09795	92.99823	63.50793	2.90089	0.0488820	0.19717460	2.9234931	21	3 12.1	20.9
473820 2016 EH_{114}	17.2	X	137.34018	347.75425	149.17826	8.24970	0.0532356	0.24067187	2.5596809	21	6 28.5	20.8
473821 2016 EX_{114}	16.3	X	15.61431	60.34323	77.89162	2.62510	0.1406507	0.18114244	3.0935413	21	1 19.3	19.8
473822 2016 EJ_{115}	16.2	X	219.64199	147.39167	158.19651	16.22256	0.0739971	0.18064635	3.0992023	21	2 4.2	21.1
473823 2016 EM_{115}	16.2	X	291.10752	143.75367	142.23151	9.72252	0.0797186	0.20372542	2.8604821	21	4 1.0	20.2
473824 2016 EB_{116}	16.0	X	308.42924	71.54645	156.48344	17.36714	0.1667143	0.17983204	3.1085511	21	1 27.8	20.5
473825 2016 EO_{116}	18.3	X	121.16693	146.59327	147.98477	6.38102	0.0973928	0.30588582	2.1815398	21	—	—
473826 2016 ER_{116}	16.8	X	32.42189	105.90838	11.41911	9.11094	0.1838838	0.18185763	3.0854253	21	1 24.1	20.2
473827 2016 EX_{116}	15.2	X	82.50270	243.22464	163.71608	19.18828	0.1326389	0.17009239	3.2261121	21	1 12.7	19.7
473828 2016 ES_{117}	15.6	X	222.00035	259.08418	1.75727	14.56267	0.0553424	0.16111722	3.3448353	21	—	—
473829 2016 ED_{120}	16.3	X	121.84469	289.34416	111.63373	10.22502	0.1134531	0.18897125	3.0074995	21	2 20.8	20.7
473830 2016 EO_{122}	17.4	X	138.54573	233.78693	204.60132	3.45642	0.0803147	0.21068539	2.7971329	21	4 18.1	21.3
473831 2016 EA_{124}	16.0	X	226.26449	325.55088	341.00734	9.62622	0.0622939	0.17905112	3.1175830	21	2 15.3	20.6
473832 2016 EB_{124}	17.0	X	96.28238	316.10873	192.12339	11.51936	0.0604267	0.22149643	2.7053589	21	5 24.7	20.8
473833 2016 EF_{124}	16.9	X	227.71130	69.61983	302.04096	3.99405	0.0827763	0.21765595	2.7370896	21	4 29.1	21.0
473834 2016 EK_{124}	17.4	X	198.50488	273.73037	205.23506	5.56981	0.1058320	0.26222716	2.4174135	21	8 13.9	21.1
473835 2016 ET_{124}	16.6	X	165.43372	84.30167	312.88517	5.07249	0.0746116	0.20036248	2.8924007	21	3 25.7	21.0
473836 2016 EU_{124}	17.0	X	239.94398	87.49199	257.74499	4.09897	0.0573544	0.20824587	2.8189354	21	4 12.2	21.1
473837 2016 EV_{124}	16.5	X	357.77632	298.82020	244.17826	4.03853	0.1203645	0.18576412	3.0420160	21	2 14.5	20.4
473838 2016 EM_{125}	16.5	X	306.59664	9.11808	229.26249	2.52370	0.0843553	0.18372683	3.0644626	21	2 17.9	20.7
473839 2016 EB_{126}	17.1	X	295.30719	89.80920	263.56352	1.15072	0.1122604	0.24125851	2.5555298	21	6 25.6	20.0
473840 2016 EM_{126}	17.1	X	304.34184	309.58180	324.47528	1.11347	0.0187018	0.20431015	2.8550217	21	4 7.8	20.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
473841 2016 EO_{126}	17.0	X	246.41040	118.22310	260.05636	1.20408	0.1063744	0.23122380	2.6289421	21	5 27.6	20.6
473842 2016 EQ_{126}	16.5	X	352.87227	327.71194	184.90039	4.73592	0.1288182	0.17073695	3.2179877	21	1 4.0	20.7
473843 2016 ES_{126}	17.1	X	139.87410	185.30094	242.91634	1.07085	0.0527458	0.20278525	2.8693166	21	4 3.9	21.2
473844 2016 EW_{127}	17.9	X	135.86235	37.66698	163.84447	3.75660	0.0601620	0.26608789	2.3939733	21	9 25.3	21.0
473845 2016 EM_{128}	16.3	X	38.76276	291.52893	190.57284	2.02218	0.0266371	0.17631497	3.1497537	21	2 3.2	20.7
473846 2016 EW_{129}	17.0	X	248.56546	83.68105	240.61581	1.10101	0.0901931	0.19816538	2.9137405	21	3 26.0	21.4
473847 2016 EX_{129}	18.0	X	174.89862	142.38905	353.47993	6.17577	0.0839683	0.25591555	2.4569988	21	8 14.5	21.5
473848 2016 EE_{130}	17.3	X	345.78429	30.32678	251.78787	0.38785	0.2838925	0.21336400	2.7736731	21	5 20.1	19.4
473849 2016 EH_{130}	16.4	X	342.10886	176.90166	1.72331	10.41545	0.0474524	0.17458705	3.1705019	21	2 1.8	20.8
473850 2016 EM_{130}	16.2	X	7.31047	152.32668	350.63243	15.45883	0.1222259	0.17316214	3.1878711	21	1 19.3	20.3
473851 2016 ER_{130}	16.2	X	133.34540	51.69992	348.53313	10.24807	0.0451701	0.18206207	3.0831150	21	2 24.5	20.7
473852 2016 ET_{130}	17.4	X	271.81119	115.94791	259.93747	1.75378	0.1049355	0.24139633	2.5545571	21	6 24.9	20.9
473853 2016 EV_{130}	17.9	X	152.38334	351.11513	200.37674	4.66220	0.1434431	0.26831772	2.3806917	21	10 1.4	21.6
473854 2016 EZ_{130}	18.3	X	218.74639	235.97006	213.95906	4.11230	0.1843287	0.26142609	2.4223493	21	7 23.1	22.2
473855 2016 EB_{131}	17.6	X	119.02890	23.26925	195.77841	2.97960	0.1875713	0.26069558	2.4268724	21	10 6.4	21.3
473856 2016 EM_{131}	17.0	X	294.80475	333.45518	343.68514	4.37915	0.0826301	0.21710138	2.7417488	21	5 9.9	20.7
473857 2016 EE_{132}	18.2	X	308.75520	111.61188	336.41473	4.10142	0.1091133	0.30297455	2.1954925	21	12 19.3	20.1
473858 2016 EL_{132}	16.8	X	226.28178	353.73413	352.17259	11.65613	0.0584340	0.19862600	2.9092340	21	3 28.8	21.1
473859 2016 EY_{132}	17.7	X	54.46663	263.90019	354.21417	11.17249	0.1508718	0.24378705	2.5378287	21	9 9.5	20.8
473860 2016 EL_{133}	18.3	X	171.02055	308.58394	305.57321	1.94452	0.1812538	0.30114973	2.2043526	21	—	—
473861 2016 ES_{133}	15.7	X	269.08134	306.22693	206.95082	8.37907	0.1540771	0.12589804	3.9426667	21	11 25.8	21.2
473862 2016 EX_{133}	15.9	X	294.54262	238.78976	0.37177	16.20852	0.1154806	0.17417444	3.1755072	21	2 9.1	20.6
473863 2016 EC_{134}	17.6	X	51.24632	63.99115	184.01591	1.67349	0.0532279	0.24206795	2.5498298	21	8 3.9	20.8
473864 2016 EG_{134}	16.9	X	341.00681	282.04830	358.02818	4.45416	0.0791835	0.22001877	2.7174583	21	5 29.1	20.2
473865 2016 EH_{134}	16.8	X	257.47553	29.13540	3.53245	6.09166	0.1515802	0.24396544	2.5365914	21	6 23.1	20.5
473866 2016 ET_{134}	17.3	X	40.58720	260.44847	4.64559	11.09331	0.2846541	0.23231420	2.6207095	21	9 19.7	20.2
473867 2016 EG_{135}	16.6	X	216.39715	172.51653	207.17085	3.32843	0.1091454	0.21151526	2.7898118	21	4 28.1	20.8
473868 2016 EK_{135}	16.9	X	271.00395	346.47257	321.57522	1.25186	0.0886472	0.19667508	2.9284411	21	3 31.3	21.1
473869 2016 EU_{135}	16.1	X	222.12138	311.49246	17.00909	6.00430	0.1251071	0.18244108	3.0788436	21	3 6.5	21.1
473870 2016 EK_{136}	16.9	X	338.62574	197.62887	30.30163	4.95824	0.1179855	0.19178197	2.9780424	21	3 17.4	20.5
473871 2016 EP_{136}	16.4	X	183.06468	40.05975	11.71006	5.90175	0.0165317	0.21274550	2.7790463	21	4 30.6	20.3
473872 2016 EF_{137}	16.8	X	277.52755	230.62900	42.21345	0.63973	0.1334553	0.18163339	3.0879642	21	2 21.2	21.4
473873 2016 EA_{138}	16.8	X	334.42660	59.16668	147.48890	3.59748	0.1337525	0.18153464	3.0890839	21	2 10.2	20.7
473874 2016 EK_{138}	17.2	X	26.65507	186.15829	30.47018	4.63494	0.1397150	0.21249359	2.7812423	21	5 19.4	20.1
473875 2016 EP_{138}	16.7	X	97.59763	75.42008	15.03936	10.97370	0.1204097	0.19222793	2.9734346	21	3 24.1	20.8
473876 2016 EC_{139}	17.4	X	235.29098	139.32024	16.43798	7.17991	0.0337969	0.29359251	2.2420196	21	12 2.6	20.0
473877 2016 EM_{139}	16.6	X	76.86250	103.82828	331.24664	4.47542	0.1412046	0.18006162	3.1059082	21	2 8.7	20.5
473878 2016 EY_{139}	17.6	X	169.80547	100.16596	9.92521	2.08359	0.1606476	0.24290996	2.5439340	21	7 4.9	21.8
473879 2016 EH_{140}	17.7	X	32.80698	318.81435	344.00105	5.23820	0.0491246	0.26394391	2.4069198	21	9 24.1	20.4
473880 2016 EX_{140}	17.5	X	5.31821	113.91391	216.14272	2.46452	0.1994634	0.25491890	2.4633986	21	10 6.0	19.5
473881 2016 ED_{141}	18.1	X	166.40446	19.02826	188.57708	7.80522	0.0575394	0.28192646	2.3034502	21	11 11.8	21.3
473882 2016 EF_{141}	18.3	X	125.73349	92.70782	140.09978	0.61975	0.1769613	0.26882418	2.3777006	21	10 30.3	22.1
473883 2016 ER_{141}	16.5	X	12.83618	157.77703	13.88370	10.97825	0.1015413	0.18668206	3.0320358	21	3 2.6	20.3
473884 2016 ER_{142}	16.6	X	295.68276	162.13014	161.08540	5.11808	0.1277627	0.21665205	2.7455383	21	5 15.4	20.3
473885 2016 EX_{142}	17.4	X	226.72740	76.55691	34.55682	5.64580	0.0741406	0.26801785	2.3824671	21	9 14.2	20.5
473886 2016 EK_{143}	17.0	X	70.36834	115.04486	31.39461	2.46681	0.0162574	0.20099371	2.8863417	21	4 11.5	20.9
473887 2016 EG_{144}	17.2	X	7.46519	226.48572	8.92848	2.62269	0.1170074	0.20924546	2.8099506	21	5 10.3	20.3
473888 2016 EK_{144}	16.8	X	337.63984	52.80804	139.38322	0.26515	0.1251037	0.17534367	3.1613748	21	1 30.5	20.8
473889 2016 EQ_{144}	16.4	X	37.97279	119.49845	9.34241	10.62318	0.0444294	0.17556153	3.1587589	21	2 15.6	20.7
473890 2016 EK_{145}	17.5	X	137.80604	156.58172	26.67114	8.50890	0.1274714	0.25532499	2.4607859	21	9 8.9	21.3
473891 2016 EL_{145}	16.7	X	356.19977	217.53286	20.29033	13.53513	0.0778531	0.20548214	2.8441555	21	4 24.8	20.3
473892 2016 ES_{145}	17.7	X	127.35658	206.77336	40.45701	6.91635	0.0777351	0.27803894	2.3248716	21	11 15.9	20.9
473893 2016 ET_{145}	16.7	X	72.69940	54.84146	119.30898	4.66689	0.0355797	0.21537907	2.7563459	21	5 23.5	20.4
473894 2016 ET_{146}	17.9	X	122.09930	125.17850	139.41048	3.02327	0.1263646	0.28008189	2.3135525	21	12 5.5	21.3
473895 2016 EX_{146}	16.9	X	64.95242	50.58693	133.62699	4.69147	0.0348912	0.21523087	2.7576110	21	5 26.2	20.5
473896 2016 EY_{146}	17.7	X	159.17787	162.61497	73.19753	2.92728	0.1178551	0.28682489	2.2771492	21	12 6.9	20.9
473897 2016 EB_{147}	16.1	X	226.54064	164.72442	172.37825	11.30982	0.0592690	0.18788961	3.0190307	21	3 22.4	20.5
473898 2016 EK_{147}	16.4	X	94.01055	301.45501	135.87543	5.78699	0.1713899	0.18316095	3.0707712	21	3 11.8	20.5
473899 2016 EN_{147}	17.3	X	116.58853	257.11126	36.01935	10.46957	0.2084886	0.28646064	2.2790792	21	—	—
473900 2016 EP_{147}	16.7	X	257.99322	341.23573	57.00088	8.30743	0.1222471	0.24234701	2.5478720	21	7 5.6	20.2
473901 2016 ER_{147}	17.2	X	91.65391	74.27554	115.35141	4.58442	0.0692714	0.23154889	2.6264809	21	7 13.6	20.7
473902 2016 ED_{148}	18.0	X	279.83453	21.90867	98.73888	5.17342	0.1288938	0.30085258	2.2058039	21	12 11.9	20.0
473903 2016 EE_{148}	16.6	X	0.40625	73.93213	113.40892	6.70934	0.0745450	0.18250685	3.0781039	21	3 4.4	20.6
473904 2016 ET_{148}	15.9	X	121.03400	264.06791	167.70667	11.47183	0.1324560	0.18978166	2.9989316	21	3 30.8	20.3
473905 2016 EB_{149}	16.5	X	42.83849	194.52974	38.95666	13.18832	0.1305933	0.22375767	2.6871017	21	7 14.4	19.9
473906 2016 ER_{149}	15.8	X	281.03034	242.04015	40.37633	10.61128	0.0441290	0.18660085	3.0329154	21	3 23.4	20.2
473907 2016 ES_{149}	17.8	X	18.43939	239.44786	160.06365	5.99838	0.0642926	0.30285708	2.1960602	21	—	—
473908 2016 EZ_{149}	16.6	X	279.51002	271.14045	74.39569	4.29750	0.1346057	0.21557188	2.7547021	21	5 21.6	20.4
473909 2016 EB_{150}	18.2	X	309.26994	26.16533	58.86210	5.44410	0.1277188	0.29626492	2.2285167	21	12 12.9	19.8
473910 2016 EN_{150}	17.3	X	339.80866	146.35839	185.23637	14.18799	0.1095846	0.24047312	2.5610911	21	8 6.2	20.3
473911 2016 EU_{150}	16.6	X	257.60590	224.37211	95.14321	3.29614	0.0957640	0.19098588	2.9863122	21	4 1.4	21.0
473912 2016 EX_{150}	18.3	X	184.12691	83.59140	163.78853	4.29555	0.0801247	0.30639158	2.1791385	21	—	—
473913 2016 ED_{151}	17.3	X	33.06384	233.96902	45.21373	3.79830	0.1885624	0.23626431	2.5914170	21	9 11.7	20.1
473914 2016 EH_{151}	16.5	X	320.45653	82.84204	143.38298	4.01414	0.0539145	0.17956524	3.1116295	21	2 27.1	20.6
473915 2016 EJ_{151}	16.8	X	320.52277	160.41368	170.09220	12.61892	0.1068965	0.23526113	2.5987785	21	7 3.4	20.1
473916 2016 EU_{151}	15.9	X	19.32098	332.61168	178.64290	10.51402	0.0622603	0.17737631	3.1371766	21	2 11.5	20.1
473917 2016 ED_{152}	16.2	X	149.84701	279.78122	146.89802	6.53787	0.0464280	0.19973853	2.8984211	21	4 16.3	20.4
473918 2016 EN_{152}	15.8	X	54.09360	302.70701	179.06009	15.56544	0.0705235	0.17845669	3.1245021	21	2 24.1	20.1
473919 2016 ES_{152}	16.7	X	80.35310	134.37740	21.01451	8.46414	0.0936977	0.21307362	2.7761926	21	5 14.6	20.5
473920 2016 EX_{152}	17.9	X	220.76397	36.36101	63.81962	2.26322	0.1063804	0.26513209	2.3997234	21	8 17.3	21.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
473921 2016 EU_{154}	16.3	X	230.61958	127.26644	203.20643	7.89610	0.1303445	0.18939253	3.0030380	21	3 12.3	21.1
473922 2016 EE_{155}	16.5	X	30.56899	128.74946	7.38495	9.68412	0.0784486	0.17778225	3.1323993	21	2 14.3	20.6
473923 2016 EH_{155}	16.6	X	294.77101	55.44833	183.79703	0.46574	0.1363728	0.17201350	3.2020470	21	2 1.0	21.2
473924 2016 EJ_{155}	16.6	X	346.15724	234.01968	1.79673	1.73082	0.0129125	0.20200760	2.8766757	21	4 14.5	20.6
473925 2016 EL_{155}	16.8	X	337.46876	251.93267	7.56707	7.15894	0.0143119	0.20839408	2.8175987	21	5 1.4	20.6
473926 2016 ES_{158}	18.0	X	123.15644	79.19422	93.89655	4.33772	0.1486407	0.25102145	2.4888315	21	8 9.9	21.7
473927 2016 EM_{159}	17.7	X	176.53969	358.87733	82.12645	4.05178	0.1562679	0.23946247	2.5682921	21	6 3.7	21.9
473928 2016 EK_{160}	16.1	X	213.15381	306.97772	25.23287	11.14932	0.0624463	0.18166074	3.0876542	21	3 6.6	20.9
473929 2016 EX_{160}	16.7	X	80.69866	178.62285	30.82619	5.75789	0.1640456	0.23615884	2.5921885	21	8 12.4	20.3
473930 2016 EK_{161}	15.7	X	305.87986	266.93494	309.12624	10.89014	0.0936438	0.17868839	3.1218006	21	1 22.5	20.1
473931 2016 EM_{161}	17.4	X	137.49824	88.04057	21.60387	12.06276	0.0826887	0.24142674	2.5543425	21	5 22.6	21.2
473932 2016 EF_{163}	16.4	X	204.30024	189.68224	142.61944	9.59082	0.0971793	0.18898183	3.0073872	21	2 20.5	21.0
473933 2016 EG_{163}	15.8	X	9.33134	135.33968	6.37446	15.66444	0.0756917	0.17866029	3.1221280	21	1 23.1	20.1
473934 2016 EQ_{163}	15.9	X	105.40960	164.63312	242.71722	9.31911	0.1223561	0.18345713	3.0674652	21	2 5.1	20.3
473935 2016 ER_{163}	15.7	X	338.36125	354.08180	185.37157	28.09257	0.1119996	0.17896644	3.1185663	21	1 13.8	20.4
473936 2016 EF_{166}	16.4	X	323.63479	251.48082	331.56457	8.15104	0.0327818	0.18711785	3.0273263	21	2 27.7	20.5
473937 2016 EV_{166}	16.8	X	47.72532	214.01752	239.73246	0.12484	0.1732702	0.17489599	3.1667672	21	1 20.7	20.3
473938 2016 EW_{167}	16.5	X	212.91754	329.42029	5.27727	9.24116	0.0894948	0.18601833	3.0392439	21	3 5.8	21.2
473939 2016 ED_{168}	16.3	X	47.54743	278.27377	175.37122	16.06710	0.2241380	0.17732126	3.1378259	21	1 21.2	19.8
473940 2016 EH_{169}	17.6	X	128.94618	258.76320	207.25095	2.85842	0.0494421	0.21508683	2.7588421	21	5 8.4	21.3
473941 2016 EP_{169}	17.5	X	317.62659	32.43849	286.64050	1.85767	0.0492597	0.23076519	2.6324241	21	6 20.6	20.7
473942 2016 EY_{170}	16.4	X	327.39051	213.72504	10.27663	9.33312	0.0307604	0.18833410	3.0142787	21	3 8.7	20.5
473943 2016 EG_{171}	17.9	X	129.45508	4.38552	259.68854	2.21282	0.1350035	0.28762297	2.2729349	21	12 12.9	21.1
473944 2016 EL_{172}	17.2	X	6.69509	147.14518	126.91985	7.27635	0.0713154	0.22579020	2.6709514	21	7 3.3	20.4
473945 2016 EP_{172}	16.1	X	12.03308	264.33916	318.09630	13.75856	0.0449615	0.21722328	2.7407230	21	4 23.2	20.0
473946 2016 EY_{175}	17.9	X	49.14600	253.34312	4.53002	1.43268	0.1247070	0.24563767	2.5250660	21	8 27.2	20.7
473947 2016 EU_{177}	16.4	X	351.76626	298.92405	229.02316	7.44354	0.1386762	0.17494281	3.1662022	21	1 17.7	20.4
473948 2016 EY_{178}	18.3	X	220.24081	170.66976	325.36141	2.42386	0.1240769	0.27829433	2.3234490	21	10 1.4	21.6
473949 2016 EF_{179}	16.0	X	199.53434	128.28850	197.81468	7.86592	0.0502817	0.17053802	3.2204897	21	2 8.0	20.9
473950 2016 EK_{179}	17.2	X	304.97280	93.65974	194.98700	1.44079	0.0317085	0.20660848	2.8338093	21	4 26.2	20.8
473951 2016 EQ_{179}	16.4	X	272.86680	67.13845	210.33756	6.30420	0.0722917	0.18263635	3.0766487	21	2 26.2	20.9
473952 2016 ES_{179}	17.9	X	123.15789	316.22477	326.20783	3.11090	0.1994588	0.28733831	2.2744359	21	12 30.7	21.7
473953 2016 EO_{180}	17.7	X	229.21195	272.83233	190.12079	9.76594	0.1631322	0.26970548	2.3725181	21	8 21.3	21.3
473954 2016 EE_{181}	16.8	X	136.37939	97.86238	348.30946	1.52017	0.0361577	0.20409074	2.8570676	21	4 20.3	20.8
473955 2016 EF_{181}	16.7	X	286.82212	324.40441	356.10775	5.62945	0.0375506	0.21284129	2.7782125	21	5 10.5	20.5
473956 2016 EN_{181}	17.2	X	63.01554	18.01597	202.76815	11.89818	0.1780314	0.22812331	2.6527090	21	7 30.4	20.8
473957 2016 EQ_{181}	17.0	X	139.58953	285.85453	197.83070	12.82523	0.2156970	0.23201937	2.6229291	21	6 25.9	21.5
473958 2016 EE_{182}	17.1	X	96.03284	333.57285	196.64124	14.15328	0.0934353	0.22731706	2.6589777	21	6 25.5	21.0
473959 2016 EX_{184}	17.1	X	108.35711	285.41098	178.03244	12.02107	0.0888486	0.21058378	2.7980326	21	4 16.9	21.0
473960 2016 EK_{186}	17.4	X	101.87864	313.01320	152.30409	0.91035	0.1293824	0.21034674	2.8001343	21	4 15.4	21.3
473961 2016 EL_{186}	17.6	X	50.95309	277.06640	3.23971	2.57852	0.0818182	0.26283544	2.4136823	21	9 25.2	20.3
473962 2016 EE_{187}	16.9	X	38.66931	309.54327	276.86845	10.69680	0.1314309	0.23098772	2.6307331	21	6 24.6	19.8
473963 2016 EX_{187}	15.4	X	256.79370	339.88096	273.61499	9.54433	0.0553358	0.17673183	3.1447989	21	1 14.9	20.1
473964 2016 EA_{188}	15.8	X	331.44565	310.19973	251.08406	7.75703	0.0641401	0.18862572	3.0111712	21	2 4.4	20.1
473965 2016 EE_{188}	17.7	X	121.82394	322.47992	235.96582	6.07317	0.0471928	0.26479599	2.4017536	21	8 29.7	21.0
473966 2016 EK_{188}	16.3	X	46.68348	180.20202	292.12507	8.60729	0.0849719	0.18694440	3.0291985	21	2 1.4	20.2
473967 2016 EA_{190}	17.7	X	128.72784	349.69158	230.27692	5.25110	0.1036266	0.27457674	2.3443740	21	10 12.9	21.2
473968 2016 EK_{190}	16.7	X	23.13351	194.51584	276.86633	6.69737	0.1383717	0.17446718	3.1719541	21	—	—
473969 2016 EM_{191}	16.6	X	336.89479	294.43323	320.35683	11.26065	0.0681445	0.21427286	2.7658244	21	4 14.2	20.4
473970 2016 EN_{191}	15.7	X	323.72891	304.32651	335.28404	24.24774	0.1447883	0.21555209	2.7548708	21	4 8.5	19.6
473971 2016 EW_{191}	17.9	X	277.75764	94.64879	304.55109	11.75847	0.1718960	0.27253548	2.3560654	21	7 26.1	20.4
473972 2016 EP_{192}	17.2	X	125.59042	308.50129	196.34216	9.22778	0.1495284	0.23721763	2.5844695	21	7 3.8	21.3
473973 2016 EE_{193}	17.1	X	168.59730	292.35457	193.16279	12.74542	0.1196557	0.23735811	2.5834496	21	7 20.0	21.3
473974 2016 EM_{195}	16.6	X	33.17956	123.64817	127.21157	16.78370	0.2388932	0.22077112	2.7112810	21	8 6.2	19.1
473975 2016 EX_{195}	16.1	X	124.52830	57.45890	14.37659	11.02231	0.0323231	0.18314556	3.0709432	21	3 22.9	20.4
473976 2016 EB_{196}	16.1	X	323.66898	57.63656	127.17564	10.20834	0.0416330	0.17530912	3.1617901	21	1 13.9	20.6
473977 2016 EG_{196}	16.3	X	340.86177	39.85722	149.75556	18.28873	0.1764788	0.18106403	3.0944343	21	1 22.8	20.4
473978 2016 EK_{196}	15.5	X	336.45889	188.92378	16.07189	17.95315	0.1517261	0.18136459	3.0910146	21	2 17.4	19.7
473979 2016 ER_{196}	15.5	X	312.09618	154.12118	52.92713	23.45185	0.1429043	0.17309724	3.1886679	21	1 15.1	20.4
473980 2016 ES_{196}	15.9	X	329.38777	90.65604	105.30291	19.69555	0.1452305	0.17590909	3.1545968	21	1 21.2	20.1
473981 2016 ET_{196}	15.6	X	344.31454	181.73100	26.57361	18.47302	0.0782855	0.18610664	3.0382824	21	3 12.9	19.8
473982 2016 EH_{197}	16.4	X	130.55060	294.64545	167.54798	24.61085	0.1625121	0.21827734	2.7318925	21	5 21.9	21.1
473983 2016 EA_{198}	17.2	X	337.36740	273.30070	356.64749	2.10447	0.1340668	0.21933405	2.7231110	21	5 3.0	20.3
473984 2016 ER_{198}	18.0	X	101.87220	133.62061	160.75181	3.29019	0.1466412	0.29040844	2.2583776	21	12 25.1	21.3
473985 2016 EE_{201}	17.7	X	143.39084	98.71876	121.47495	7.04743	0.0561113	0.28038671	2.3118754	21	11 2.6	20.9
473986 2016 EM_{201}	17.7	X	231.92782	335.30253	105.58089	5.68012	0.1361215	0.26454294	2.4032849	21	7 31.4	21.1
473987 2016 EU_{201}	16.6	X	119.96224	0.30771	102.26535	7.56115	0.0403262	0.21327855	2.7744140	21	4 24.7	20.5
473988 2016 EY_{201}	18.3	X	197.25496	47.65210	153.70011	2.85714	0.0504907	0.30524678	2.1845835	21	12 15.6	20.8
473989 2016 EC_{202}	17.0	X	312.24990	265.66108	359.42323	6.09477	0.0507494	0.21139602	2.7908608	21	3 31.9	20.7
473990 2016 EM_{202}	15.5	X	102.77626	4.16538	40.41254	13.99750	0.0366925	0.16905680	3.2392736	21	1 28.5	20.3
473991 2016 EU_{202}	16.0	X	358.73138	80.75179	90.53311	6.07706	0.1252146	0.18052334	3.1006099	21	2 5.2	19.7
473992 2016 FH_{17}	17.5	X	187.72359	58.34808	155.48981	5.49194	0.0815166	0.29446145	2.2376067	21	12 14.6	20.4
473993 2016 FT_{17}	16.2	X	336.28949	152.63528	59.03935	5.79970	0.0891018	0.18269565	3.0759829	21	2 27.7	20.2
473994 2016 FV_{19}	16.2	X	346.21881	354.42236	199.55103	15.84874	0.1813293	0.18119477	3.0929456	21	2 1.6	20.3
473995 2016 FX_{19}	16.5	X	330.92311	91.19595	111.79229	10.72314	0.1698374	0.17696282	3.1420616	21	1 28.4	20.5
473996 2016 FY_{19}	15.9	X	299.28162	175.53346	96.80852	10.69163	0.0270611	0.19641251	2.9310504	21	4 5.2	20.1
473997 2016 FH_{21}	17.5	X	130.11111	114.21493	126.29838	5.84412	0.1639820	0.27317152	2.3524069	21	11 14.6	21.2
473998 2016 FM_{23}	17.5	X	45.42480	83.94383	173.12002	5.42219	0.2042830	0.23472449	2.6027380	21	8 31.4	20.5
473999 2016 FW_{23}	17.3	X	32.42688	226.29750	41.65939	3.15648	0.1429261	0.23597693	2.5935205	21	8 17.4	20.1
474000 2016 FW_{32}	16.8	X	65.81517	285.40473	203.12746	10.16520	0.0608477	0.19213187	2.9744256	21	3 17.7	20.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
474001 2016 FN_{35}	16.7	X	2.01384	145.09055	51.78582	2.73090	0.2298273	0.18791719	3.0187354	21	3 5.0	19.7
474002 2016 FP_{35}	17.9	X	165.48388	135.24852	60.78432	2.24071	0.1477773	0.27319571	2.3522680	21	10 21.4	21.6
474003 2016 FU_{35}	18.1	X	125.78528	211.39286	354.76545	2.46805	0.1486613	0.25773146	2.4454442	21	9 23.9	21.6
474004 2016 FB_{41}	16.5	X	356.29761	164.87327	127.59912	13.19756	0.1749135	0.23025913	2.6362796	21	7 11.6	19.0
474005 2016 FE_{41}	16.3	X	11.19296	91.38448	159.26215	12.92444	0.1003738	0.21897380	2.7260969	21	6 9.9	19.7
474006 2016 FH_{41}	15.6	X	256.16615	295.94798	3.39265	9.42094	0.0812112	0.18457023	3.0551200	21	3 8.6	20.0
474007 2016 FB_{42}	16.5	X	90.68953	95.63976	53.83325	5.19026	0.0148643	0.21495162	2.7599989	21	5 10.8	20.2
474008 2016 FS_{46}	16.5	X	335.82097	99.30114	209.19832	7.99293	0.1367543	0.22730453	2.6590754	21	6 25.1	19.4
474009 2016 FJ_{50}	17.9	X	183.93463	6.75754	234.26763	4.33475	0.1369707	0.30328397	2.1939989	21	—	—
474010 2016 FP_{50}	16.1	X	334.49494	207.55815	345.07585	12.22950	0.0740993	0.17420327	3.1751568	21	2 5.5	20.4
474011 2016 FG_{52}	16.9	X	61.84552	64.15163	209.52599	11.41663	0.0795846	0.25569988	2.4583801	21	9 28.1	20.1
474012 2016 FB_{54}	16.5	X	53.68583	57.44743	156.76184	13.84813	0.0935295	0.22285091	2.6943858	21	6 27.1	20.1
474013 2016 FO_{54}	16.8	X	9.12332	158.91718	18.54060	19.75580	0.2306400	0.18530406	3.0470489	21	3 2.9	20.1
474014 2016 GO_{1}	17.6	X	146.45644	83.30969	108.34087	7.26413	0.1232751	0.26258977	2.4151875	21	9 29.2	21.3
474015 2016 GU_{3}	16.2	X	351.60068	94.88594	129.44305	10.88265	0.0455308	0.19702572	2.9249656	21	4 10.4	20.2
474016 2016 GB_{8}	15.7	X	295.97471	329.22137	251.56619	17.55904	0.0432905	0.17938250	3.1137423	21	1 17.8	20.4
474017 2016 GP_{10}	17.2	X	5.74695	95.05949	177.98331	8.62352	0.1603405	0.22105265	2.7089786	21	7 1.4	20.1
474018 2016 GO_{15}	17.7	X	116.09669	279.07453	333.28409	5.76263	0.1670306	0.27352380	2.3503866	21	11 12.6	21.4
474019 2016 GH_{28}	18.1	X	103.15673	56.82524	207.02321	2.75396	0.2155743	0.26830898	2.3807433	21	11 19.7	22.0
474020 2016 GU_{29}	17.9	X	129.85115	84.02297	153.72937	1.67585	0.1516362	0.27428652	2.3460274	21	11 9.3	21.5
474021 2016 GL_{48}	18.1	X	234.26663	163.11661	9.27329	2.32279	0.0852918	0.30088739	2.2056337	21	12 19.3	20.6
474022 2016 GD_{65}	16.2	X	90.36154	50.12763	35.77522	14.71233	0.2607070	0.19026841	2.9938147	21	4 1.9	20.3
474023 2016 GW_{110}	17.5	X	205.25932	140.78812	45.81943	6.82617	0.0472646	0.28781164	2.2719415	21	12 1.8	20.4
474024 2016 GM_{119}	17.2	X	109.29899	91.71880	86.85987	5.80792	0.1394809	0.23576410	2.5950811	21	7 31.6	21.0
474025 2016 GO_{125}	17.9	X	21.77912	97.01862	316.63899	3.84672	0.0103961	0.31460937	2.1410244	21	—	—
474026 2016 GX_{125}	16.5	X	58.18455	12.81426	203.66653	12.75700	0.2086530	0.22289311	2.6940457	21	7 22.2	20.1
474027 2016 GX_{131}	16.1	X	297.71877	116.59918	136.43754	16.32064	0.2329450	0.17623942	3.1506537	21	2 7.8	20.7
474028 2016 GD_{132}	17.2	X	120.76851	143.10115	119.87884	7.31785	0.0973553	0.28147095	2.3059347	21	12 2.3	20.5
474029 2016 GV_{132}	16.4	X	115.18228	31.38324	136.86447	15.46349	0.0450918	0.23503680	2.6004319	21	7 11.7	20.1
474030 2016 GD_{151}	15.8	X	250.86921	187.89969	155.72310	20.98160	0.1707859	0.17525476	3.1624439	21	4 21.1	21.1
474031 2016 GV_{161}	16.1	X	351.59203	72.79214	202.98122	12.41514	0.1629240	0.21533690	2.7567057	21	6 6.6	19.1
474032 2016 GX_{179}	17.1	X	110.99701	130.62388	93.09245	6.86970	0.0894702	0.25316185	2.4747835	21	9 29.9	20.7
474033 2016 GQ_{181}	16.3	X	312.93056	230.03970	97.90295	10.89676	0.2004931	0.21355215	2.7720438	21	6 4.9	19.7
474034 2016 GT_{185}	16.4	X	326.76483	77.86939	169.97611	11.87248	0.1672341	0.18301076	3.0724510	21	3 18.8	20.1
474035 2016 GW_{191}	16.2	X	315.95339	176.52272	202.42296	13.45479	0.2684924	0.22586347	2.6703737	21	8 7.9	19.1
474036 2016 GH_{208}	15.9	X	33.10375	44.19876	78.95840	11.68626	0.0693165	0.17728447	3.1382600	21	1 31.8	20.1
474037 2016 GX_{216}	17.8	X	128.51356	66.10697	151.68138	2.59853	0.1538656	0.26689255	2.3891592	21	10 13.6	21.3
474038 2016 GE_{217}	17.2	X	61.18183	138.01676	49.28182	10.11223	0.1623116	0.21804259	2.7338530	21	6 10.3	20.5
474039 2016 GT_{217}	17.0	X	68.48547	233.40563	27.88744	5.04227	0.1585420	0.25539800	2.4603169	21	10 5.0	20.1
474040 2016 GG_{218}	16.8	X	40.27480	162.78871	82.73958	12.20961	0.1307256	0.22559074	2.6725256	21	7 27.1	20.0
474041 2016 GL_{225}	16.9	X	37.07668	248.48995	24.19886	3.88689	0.2037330	0.23172194	2.6251731	21	9 10.8	19.8
474042 2016 GF_{237}	13.5	X	355.96976	309.65008	90.12612	15.42920	0.0312730	0.08011308	5.3292621	21	11 13.1	20.5
474043 2016 GJ_{237}	16.1	X	261.54319	252.45692	81.99955	14.74816	0.0895007	0.18327810	3.0694625	21	4 29.7	20.8
474044 2016 GG_{238}	16.5	X	39.36720	49.22553	148.47450	10.37984	0.0581884	0.19054579	2.9909086	21	5 14.1	20.6
474045 2016 GK_{238}	16.8	X	357.65849	175.42878	167.10400	10.99862	0.0993844	0.23649185	2.5897545	21	9 28.8	19.6
474046 2016 GV_{238}	17.9	X	180.35603	88.22516	83.62982	7.97332	0.1101436	0.25949071	2.4343789	21	10 9.1	21.6
474047 2016 GP_{242}	18.2	X	155.48797	294.78756	307.73687	1.11458	0.1710868	0.28564686	2.2834057	21	12 9.4	21.8
474048 2016 GU_{242}	16.3	X	318.79061	1.87440	219.81785	14.60244	0.2096415	0.17392140	3.1785865	21	1 24.7	21.0
474049 2016 GR_{243}	15.8	X	286.84986	327.28261	299.48661	4.24064	0.1071918	0.17811062	3.1285481	21	2 26.3	20.3
474050 2016 GL_{244}	15.3	X	321.72160	213.90241	5.15178	9.11735	0.0339998	0.17522241	3.1628332	21	2 25.4	19.7
474051 2016 GU_{246}	16.4	X	56.75954	348.77095	222.65182	8.76856	0.1345518	0.21984440	2.7188951	21	7 2.8	19.9
474052 2016 GJ_{249}	17.3	X	71.35953	35.87399	193.37262	2.63367	0.1903469	0.23369332	2.6103887	21	8 27.6	20.7
474053 2016 GW_{250}	17.1	X	49.94295	268.26567	316.32718	2.54513	0.0601969	0.22316981	2.6918184	21	7 1.2	20.5
474054 2016 HE_{1}	17.3	X	107.21109	54.99956	205.58987	7.29768	0.0966541	0.26790043	2.3831631	21	11 11.9	20.7
474055 2016 HS_{1}	17.4	X	109.35691	34.50666	220.18037	5.48260	0.0924936	0.26627247	2.3928669	21	11 5.4	20.7
474056 2016 HJ_{6}	16.4	X	7.68326	244.68870	66.47220	12.99054	0.1801418	0.23240338	2.6200390	21	9 14.9	19.3
474057 2016 HF_{8}	17.3	X	131.05526	55.07386	170.31439	1.44651	0.1436987	0.26229742	2.4169817	21	10 24.2	20.8
474058 2016 HL_{16}	18.0	X	198.54300	110.80517	64.98662	2.84402	0.1586639	0.27854763	2.3220402	21	10 28.1	21.3
474059 2016 HY_{16}	16.6	X	353.35454	133.94370	63.10602	13.72942	0.1146294	0.17686321	3.1432413	21	3 9.5	20.8
474060 2016 HB_{21}	18.2	X	207.77104	198.68388	16.53658	3.39892	0.1062872	0.29905989	2.2146101	21	—	—
474061 2016 HE_{21}	17.6	X	121.95660	271.41956	319.06697	1.56239	0.1565269	0.25997106	2.4313793	21	10 21.1	21.4
474062 2016 HU_{23}	16.1	X	304.83451	191.00832	52.62455	7.06046	0.1307582	0.17097311	3.2150237	21	2 22.3	20.7
474063 2016 JH_{3}	16.2	X	101.27310	179.79157	38.30824	14.16222	0.1188370	0.23960121	2.5673006	21	9 16.6	20.1
474064 2016 JM_{7}	16.5	X	79.35551	340.55893	225.92342	14.01780	0.0360227	0.22576352	2.6711619	21	7 11.2	20.3
474065 2016 JJ_{10}	16.7	X	127.91454	22.18478	94.44704	9.69907	0.0637598	0.20227362	2.8741530	21	5 24.9	20.9
474066 2016 JV_{11}	16.7	X	80.70491	311.33116	202.03177	11.15882	0.1632494	0.21242237	2.7818639	21	5 26.5	20.4
474067 2016 JB_{12}	18.5	X	165.63784	8.32343	69.81633	23.39253	0.0813352	0.39216610	1.8485138	21	5 12.6	20.6
474068 2016 JC_{16}	17.7	X	40.52816	268.91335	74.41305	2.50131	0.1967285	0.26329119	2.4108961	21	12 23.2	20.6
474069 2016 JV_{18}	17.3	X	347.85145	254.83225	86.62163	4.41851	0.1669222	0.23864636	2.5741440	21	9 12.4	19.7
474070 2016 JP_{20}	17.8	X	96.76881	70.68837	209.86680	1.86989	0.1363270	0.26547302	2.3976684	21	11 28.4	21.3
474071 2016 JQ_{22}	17.4	X	26.74743	213.40625	88.53664	1.76154	0.1567355	0.23477176	2.6023886	21	9 27.3	20.2
474072 2016 JD_{23}	16.8	X	55.51327	1.86662	199.42560	4.26505	0.0450596	0.20891258	2.8129347	21	6 5.9	20.4
474073 2016 JF_{25}	17.0	X	11.16516	304.71037	350.88374	2.20172	0.0541969	0.22950394	2.6420596	21	8 10.5	20.2
474074 2016 JO_{29}	16.4	X	76.67079	332.24313	245.64101	12.60656	0.1780752	0.23254638	2.6189648	21	8 12.0	20.3
474075 2016 JS_{29}	17.5	X	151.59551	48.06830	207.66906	5.99168	0.1565738	0.28586886	2.2822234	21	12 22.6	21.0
474076 2016 JN_{32}	17.2	X	92.82268	37.90135	195.57775	5.02665	0.1934957	0.23764337	2.5813818	21	9 27.6	21.0
474077 2016 JP_{32}	16.5	X	26.85976	214.84847	104.26016	15.03717	0.2702088	0.22986188	2.6393162	21	11 13.3	19.8
474078 2016 JZ_{34}	17.4	X	192.07940	252.24077	87.33335	23.60066	0.0832853	0.35661341	1.9694166	21	1 19.3	19.9
474079 2016 JG_{35}	16.3	X	52.85868	95.97395	123.25975	25.54221	0.1196273	0.21309899	2.7759723	21	7 7.6	19.9
474080 2016 JH_{35}	16.0	X	208.39393	318.11212	273.77164	23.89058	0.2417505	0.28837157	2.2689996	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
474081 2016 JN_{35}	17.4	X	111.57144	200.58041	97.48242	4.73796	0.1713769	0.27736727	2.3286233	21	—	—
474082 2016 JW_{35}	16.4	X	44.90303	77.65869	226.95813	11.82661	0.1822270	0.24160422	2.5530915	21	11 1.5	19.7
474083 2016 JZ_{35}	16.9	X	44.42755	136.17179	169.30006	7.67039	0.2025461	0.24146178	2.5540954	21	11 7.7	20.2
474084 2016 JD_{36}	16.5	X	70.55130	88.88203	106.92254	11.90176	0.1395153	0.21430710	2.7655298	21	7 3.9	20.1
474085 2016 JE_{36}	16.9	X	30.21222	106.75984	146.28929	8.12024	0.1759107	0.21466291	2.7624730	21	7 23.2	19.9
474086 2016 JM_{36}	16.5	X	26.96386	20.85979	238.84202	11.59990	0.1444915	0.22200562	2.7012207	21	7 20.1	19.7
474087 2016 JS_{36}	17.0	X	74.93829	88.80499	126.46949	7.15795	0.1607955	0.22701689	2.6613211	21	8 9.8	20.5
474088 2016 KB_{2}	16.4	X	31.16452	212.66200	83.61735	12.73289	0.0603746	0.23361707	2.6109567	21	9 19.3	19.9
474089 2016 KE_{2}	17.1	X	75.21363	33.39744	224.01769	13.40453	0.1619135	0.23890960	2.5722528	21	10 2.7	20.9
474090 2016 KF_{2}	16.7	X	41.87336	210.46725	84.01843	13.00104	0.1476406	0.23658002	2.5891110	21	10 16.1	20.1
474091 2016 KG_{2}	16.5	X	325.04331	181.46478	76.77432	14.38612	0.1726078	0.18123193	3.0925228	21	4 5.5	20.7
474092 2016 KP_{2}	16.6	X	343.64871	204.46518	107.23200	8.88886	0.2102482	0.20914486	2.8108516	21	7 10.4	19.1
474093 2016 KY_{3}	16.9	X	56.65435	83.08544	212.02690	11.21099	0.1864341	0.23986527	2.5654160	21	11 5.5	20.3
474094 2016 LB_{4}	17.0	X	6.45824	60.43522	101.02506	22.99291	0.3812265	0.18510871	3.0491923	21	1 1.8	19.5
474095 2016 LE_{4}	17.0	X	41.15313	51.43849	229.27695	10.13992	0.1529552	0.22910337	2.6451384	21	9 14.1	20.3
474096 2016 LR_{6}	17.3	X	27.64260	126.79196	184.69922	12.25715	0.2987942	0.22816342	2.6523981	21	11 5.0	20.4
474097 2016 LA_{7}	16.3	X	303.77959	179.89749	141.89726	12.01911	0.0882984	0.19797095	2.9156479	21	6 2.2	20.4
474098 2016 LE_{7}	16.5	X	302.67216	173.62501	116.23973	14.62212	0.1792370	0.17858717	3.1229801	21	4 12.7	21.1
474099 2016 LR_{7}	16.7	X	15.67753	45.80914	181.69574	12.54752	0.0480414	0.19018688	2.9946703	21	5 17.3	20.8
474100 2016 LX_{7}	17.2	X	16.77949	227.66016	122.56581	14.58788	0.2019040	0.24363417	2.5388902	21	11 29.4	20.3
474101 2016 LE_{12}	17.4	X	90.37035	135.91104	174.96491	6.32197	0.1518132	0.26643123	2.3919162	21	12 30.4	21.1
474102 2016 LL_{12}	15.4	X	236.24294	259.28256	102.75547	13.09230	0.1530019	0.17863524	3.1224198	21	4 30.9	20.5
474103 2016 LH_{13}	17.7	X	102.32551	128.89274	145.56663	5.44437	0.1209783	0.25761949	2.4461527	21	11 25.3	21.3
474104 2016 LB_{18}	16.4	X	247.23122	175.85630	160.80411	13.72574	0.1288534	0.17215706	3.2002666	21	4 11.2	21.4
474105 2016 LP_{19}	17.6	X	107.37682	210.06941	138.23563	9.75985	0.1470873	0.29494516	2.2351596	21	—	—
474106 2016 LZ_{23}	16.4	X	315.47572	200.75149	130.21989	6.06351	0.0894619	0.20953358	2.8073741	21	6 29.0	19.9
474107 2016 LC_{24}	16.0	X	269.86763	165.05426	141.18851	6.27758	0.1413215	0.17013424	3.2255830	21	3 26.9	20.9
474108 2016 LS_{25}	15.8	X	219.02617	288.37392	78.59413	21.21988	0.1198764	0.17637335	3.1490586	21	4 26.4	21.1
474109 2016 LB_{28}	17.3	X	311.51443	329.62000	137.64182	6.87718	0.0503628	0.28717740	2.2752854	21	—	—
474110 2016 LL_{28}	16.0	X	29.98762	294.08728	229.42283	25.07992	0.1989041	0.17514302	3.1637888	21	3 13.9	20.0
474111 2016 LB_{30}	17.0	X	18.38790	154.96621	186.74684	7.15290	0.1747923	0.24170609	2.5523740	21	11 12.9	19.8
474112 2016 LC_{30}	17.8	X	175.00674	155.34244	116.56502	6.39728	0.1325706	0.29643424	2.2276680	21	—	—
474113 2016 LX_{31}	16.4	X	23.04029	56.28813	226.52676	10.45679	0.1444148	0.21835173	2.7312721	21	8 14.4	19.6
474114 2016 LD_{41}	16.0	X	265.47539	234.47614	109.07385	13.18485	0.0760983	0.18846820	3.0128487	21	5 15.7	20.5
474115 2016 LW_{41}	16.2	X	221.65584	273.37770	101.21772	11.26159	0.0595546	0.18448595	3.0560504	21	5 5.9	20.9
474116 2016 LR_{43}	15.8	X	258.04568	266.89920	74.26181	13.44682	0.0819299	0.18595195	3.0399672	21	5 2.9	20.3
474117 2016 LS_{47}	15.7	X	258.21338	163.19490	164.26613	18.83388	0.1688325	0.17442380	3.1724800	21	4 7.2	20.8
474118 2016 LP_{50}	17.0	X	101.92819	344.27671	204.51541	9.13201	0.1623069	0.22125322	2.7073411	21	8 3.8	21.2
474119 2016 LT_{50}	16.5	X	88.75889	53.14422	234.07356	12.46717	0.1478951	0.23644368	2.5901062	21	11 25.2	20.3
474120 4504 P–L	16.4	X	332.09551	338.18392	0.77029	10.95882	0.2433091	0.17779392	3.1322623	21	7 24.5	19.8
474121 1993 TC_{8}	17.2	X	16.27307	127.75568	242.25868	3.82911	0.1215560	0.21397392	2.7683999	21	12 2.3	20.3
474122 1994 RP_{24}	17.3	X	50.99369	19.91214	318.49031	5.65677	0.2956490	0.22561602	2.6723259	21	—	—
474123 1995 BL_{14}	17.3	X	332.67243	139.72419	306.20929	7.42849	0.2753384	0.21845010	2.7304520	21	—	—
474124 1995 MR_{4}	17.7	X	95.06115	103.11600	228.73872	4.86894	0.2534456	0.23946165	2.5682979	21	—	—
474125 1995 QL_{8}	16.7	X	5.92766	41.13385	299.37554	9.87661	0.0826582	0.19262572	2.9693395	21	9 24.9	20.6
474126 1995 QG_{13}	17.2	X	314.21948	129.87131	229.41413	9.42412	0.1195354	0.18751145	3.0230885	21	7 28.4	21.1
474127 1995 QP_{13}	16.4	X	47.81290	33.53028	255.11971	8.62757	0.0924261	0.19108824	2.9852457	21	9 20.8	20.6
474128 1995 SV_{28}	17.5	X	67.55832	38.55485	345.96741	2.69605	0.1529880	0.23950697	2.5679739	21	—	—
474129 1995 SM_{30}	17.6	X	31.33262	100.11840	347.97064	32.62536	0.4350526	0.23825684	2.5769488	21	—	—
474130 1995 SA_{41}	16.7	X	287.92343	69.32093	22.14750	9.29236	0.1160938	0.19095935	2.9865888	21	10 21.8	20.6
474131 1995 SO_{44}	18.7	X	82.50103	66.94388	357.76019	1.51079	0.1516209	0.28053988	2.3110339	21	1 9.3	20.6
474132 1995 SA_{45}	17.5	X	43.99070	197.48786	193.46586	4.93765	0.2421793	0.23506002	2.6002606	21	—	—
474133 1995 SN_{61}	18.6	X	116.42876	270.83673	138.77537	2.52484	0.2185757	0.28297927	2.2977334	21	2 22.6	21.4
474134 1995 SW_{63}	16.7	X	228.52435	85.58522	15.14314	9.99993	0.0704623	0.18548972	3.0450154	21	8 29.5	21.2
474135 1995 SX_{73}	17.8	X	336.57790	64.61396	3.31071	2.08354	0.1978176	0.23102497	2.6304503	21	12 24.7	20.0
474136 1995 SC_{75}	17.8	X	40.94061	312.45981	67.44733	3.00362	0.0750553	0.23494299	2.6011240	21	—	—
474137 1995 TZ_{8}	18.8	X	160.63905	150.77843	166.94368	3.88941	0.1721644	0.28224540	2.3017146	21	—	—
474138 1995 TF_{10}	17.2	X	237.02584	75.52987	9.91052	11.99538	0.1851422	0.18246106	3.0786188	21	8 8.2	22.2
474139 1995 UH_{31}	17.6	X	20.04359	4.40275	20.88226	8.01958	0.1935389	0.23226457	2.6210828	21	—	—
474140 1995 UQ_{52}	16.4	X	295.63185	340.59043	20.09848	16.27664	0.0924173	0.18286288	3.0741073	21	7 12.7	20.9
474141 1995 XF_{4}	17.1	X	314.92436	225.43813	149.55873	3.76509	0.2731976	0.18445957	3.0563418	21	7 31.6	20.4
474142 1996 XK_{35}	18.0	X	61.35554	66.17781	58.87896	7.47821	0.0533071	0.29382053	2.2408595	21	2 21.1	20.5
474143 1997 MX_{6}	17.6	X	310.61402	130.07817	240.85121	23.89307	0.1341724	0.37460925	1.9058281	21	8 7.9	19.8
474144 1997 UA	17.2	X	73.00412	353.89822	17.58700	15.44966	0.1781450	0.25728393	2.4482792	21	—	—
474145 1998 RD_{10}	18.1	X	30.35661	94.22827	349.92776	2.81393	0.2599586	0.27045950	2.3681065	21	—	—
474146 1998 RF_{13}	18.5	X	98.08804	212.44907	174.14781	2.15085	0.1991469	0.27279781	2.3545548	21	—	—
474147 1998 RF_{14}	18.1	X	147.27208	149.98308	170.52670	2.29821	0.2252642	0.27514729	2.3411320	21	—	—
474148 1998 SA_{16}	17.7	X	60.29814	170.39697	177.17602	6.30759	0.0712468	0.22277280	2.6950155	21	12 26.3	21.5
474149 1998 SW_{16}	17.9	X	47.52577	69.28578	25.10344	2.21768	0.1497271	0.27403415	2.3474675	21	—	—
474150 1998 SQ_{34}	16.6	X	51.35711	316.79782	11.44981	14.64924	0.2539823	0.22006604	2.7170691	21	12 14.4	20.8
474151 1998 SC_{151}	17.2	X	350.68369	18.23766	355.69248	3.27203	0.2964778	0.21572521	2.7533966	21	11 9.9	19.2
474152 1998 SD_{174}	17.7	X	334.44735	20.62656	6.64181	3.71752	0.2088930	0.21515054	2.7582974	21	10 14.5	20.0
474153 1998 TD_{20}	16.8	X	17.22305	323.85502	27.19271	13.35467	0.1150754	0.21529711	2.7570454	21	11 5.8	20.1
474154 1998 UU_{50}	18.0	X	107.69640	341.10057	49.87735	8.64587	0.1042908	0.27281485	2.3544567	21	—	—
474155 1998 WC_{36}	18.4	X	96.39713	344.21107	55.63949	3.76521	0.2040690	0.27236629	2.3570411	21	1 9.4	20.6
474156 1998 XQ_{16}	18.1	X	48.35330	152.05688	315.06790	9.04476	0.4317016	0.26963015	2.3729600	21	1 13.1	17.3
474157 1998 XL_{25}	17.1	X	343.64908	167.91586	235.69682	6.99388	0.2158259	0.21477564	2.7615063	21	11 30.5	19.6
474158 1999 FA	20.7	X	28.80638	297.02781	166.08858	12.02931	0.1327806	0.88029694	1.0782429	21	—	—
474159 1999 RJ	16.2	X	354.83315	28.20711	307.89252	15.48207	0.1962192	0.17870308	3.1216295	21	9 2.1	19.7
474160 1999 RH_{5}	16.2	X	291.16485	15.85429	341.44588	10.42315	0.1410796	0.17320582	3.1873351	21	6 22.0	20.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
474161 1999 RH_{114}	16.6	X	61.58479	142.32629	186.49301	11.75798	0.2635797	0.23274269	2.6174919	21	12 29.3	20.9
474162 1999 RQ_{128}	17.0	X	77.24883	42.06131	298.08638	3.89526	0.3308100	0.23572505	2.5953676	21	—	—
474163 1999 SO_{5}	20.9	X	249.63616	359.68028	196.07199	13.36562	0.0652773	0.87101237	1.0858917	21	—	—
474164 1999 TU_{53}	17.4	X	35.10267	10.47090	4.44669	5.46608	0.2063394	0.23055319	2.6340376	21	—	—
474165 1999 TU_{61}	17.9	X	67.52276	117.92524	220.77135	1.09143	0.3391378	0.23216533	2.6218296	21	—	—
474166 1999 TE_{65}	18.4	X	168.53755	157.08286	194.00629	1.16393	0.1916598	0.29216820	2.2493002	21	1 29.8	21.6
474167 1999 TO_{68}	16.7	X	37.08005	25.35508	358.35853	13.40896	0.1963629	0.23307035	2.6150382	21	—	—
474168 1999 TD_{80}	16.0	X	227.19949	88.74339	23.15361	11.24024	0.0832902	0.17494150	3.1662180	21	9 9.4	20.8
474169 1999 TT_{87}	17.5	X	334.96265	20.41654	65.76323	7.55851	0.1824121	0.22769956	2.6559991	21	—	—
474170 1999 TE_{167}	17.0	X	62.54974	34.21596	332.26967	3.91338	0.2072198	0.23386661	2.6090991	21	—	—
474171 1999 TY_{193}	17.4	X	10.06726	86.80793	17.10355	7.12662	0.4286346	0.23249836	2.6193254	21	—	—
474172 1999 TL_{226}	18.6	X	194.54458	9.85213	324.12973	0.94989	0.1496670	0.29365159	2.2417189	21	1 30.5	21.8
474173 1999 TT_{262}	16.8	X	319.24791	158.76259	210.56626	14.75053	0.2853213	0.17474424	3.1686004	21	7 25.4	20.5
474174 1999 TV_{299}	16.3	X	306.40366	358.18035	37.54598	10.78913	0.0777436	0.17373368	3.1808758	21	9 15.4	20.6
474175 1999 TG_{304}	16.6	X	350.09474	351.78108	4.65323	9.72584	0.1073829	0.17699798	3.1416455	21	9 25.7	20.3
474176 1999 UW_{18}	18.3	X	120.95539	6.49644	34.90200	3.84531	0.1584584	0.28876060	2.2669612	21	2 8.3	20.9
474177 1999 US_{36}	17.5	X	4.63174	247.50274	194.80203	8.21746	0.1913598	0.23498384	2.6008225	21	—	—
474178 1999 UC_{41}	17.9	X	174.50308	316.79297	28.00057	7.72433	0.2298644	0.29163997	2.2520154	21	2 3.0	21.5
474179 1999 VS_{6}	19.0	X	126.57747	89.34101	35.29422	27.96990	0.2231273	0.75202239	1.1976103	21	5 11.4	18.0
474180 1999 VA_{76}	16.0	X	241.29829	56.40593	58.46656	12.73909	0.0870045	0.17375891	3.1805678	21	9 30.5	20.8
474181 1999 VP_{79}	17.3	X	80.94116	113.78712	219.50283	28.15291	0.3797110	0.23384012	2.6092961	21	—	—
474182 1999 VK_{118}	16.3	X	311.00810	183.04753	227.88222	17.14777	0.0230591	0.17568692	3.1572558	21	10 8.0	20.8
474183 1999 VD_{136}	17.2	X	29.95057	158.01199	228.13048	13.41767	0.2561162	0.22957972	2.6414782	21	—	—
474184 1999 VH_{158}	17.4	X	15.73567	174.44934	233.26718	13.23218	0.2423574	0.22954096	2.6417755	21	—	—
474185 1999 VP_{175}	18.4	X	146.19233	339.39322	10.43053	2.97856	0.2362738	0.28766632	2.2727066	21	1 11.9	21.5
474186 1999 VO_{179}	16.8	X	30.68463	202.27014	194.22689	13.69467	0.2646050	0.23047778	2.6346120	21	—	—
474187 1999 VS_{222}	17.5	X	37.64480	175.97583	219.19740	6.08195	0.2293856	0.23100292	2.6306177	21	—	—
474188 1999 VL_{226}	17.5	X	67.36008	283.84337	113.05547	6.86218	0.3534811	0.23509485	2.6000037	21	—	—
474189 1999 XW_{8}	16.2	X	45.70268	285.37521	70.71608	28.75500	0.4124006	0.23055064	2.6340570	21	—	—
474190 1999 XX_{14}	16.9	X	81.33590	51.08882	87.56276	24.82867	0.3329872	0.28867686	2.2673996	21	6 2.3	19.7
474191 1999 XN_{238}	17.1	X	49.22504	111.11914	274.81121	5.21944	0.3238650	0.23260965	2.6184899	21	—	—
474192 1999 YS_{18}	17.9	X	4.50850	309.80184	114.38898	2.80341	0.2170195	0.22574742	2.6712888	21	—	—
474193 1999 YN_{25}	17.1	X	314.39133	180.08179	267.46499	9.33710	0.3241148	0.22342771	2.6897465	21	11 18.7	18.9
474194 2000 AA_{131}	16.9	X	325.58626	29.52101	118.25798	10.52632	0.3260759	0.22743275	2.6580759	21	—	—
474195 2000 AU_{216}	16.7	X	29.61377	162.51285	258.44366	12.03259	0.2278149	0.23181388	2.6244789	21	—	—
474196 2000 AH_{221}	17.9	X	20.76015	329.71700	88.98501	3.45444	0.1693370	0.22698943	2.6615357	21	—	—
474197 2000 BR_{9}	18.7	X	109.72079	295.52572	140.38987	2.18023	0.1934464	0.28511100	2.2862659	21	3 18.0	21.2
474198 2000 CH_{55}	16.7	X	313.72974	117.38667	357.68226	12.84581	0.2163924	0.22289103	2.6940624	21	—	—
474199 2000 CA_{141}	17.7	X	110.13164	59.99779	311.31333	6.46880	0.1210402	0.27676803	2.3319833	21	—	—
474200 2000 DT_{17}	16.5	X	255.75722	172.46668	347.22840	17.43490	0.1892757	0.21678462	2.7444189	21	11 21.9	20.7
474201 2000 HV_{27}	16.3	X	1.53458	299.96516	229.01746	21.80416	0.2257000	0.27507059	2.3415671	21	—	—
474202 2000 KO_{6}	18.1	X	240.33651	78.41989	215.41354	4.38074	0.3433565	0.31437078	2.1421075	21	1 16.9	22.0
474203 2000 QR_{199}	18.3	X	208.35074	200.03152	148.40884	3.54922	0.2492621	0.31183346	2.1537117	21	3 3.0	21.9
474204 2000 QE_{203}	18.4	X	207.62739	162.85406	146.18776	6.07127	0.3123347	0.30873769	2.1680849	21	1 14.8	22.4
474205 2000 SJ_{35}	18.5	X	234.87833	173.69962	149.95399	2.94891	0.2493074	0.31267431	2.1498488	21	2 20.3	22.1
474206 2000 SK_{95}	16.6	X	324.21239	151.33623	234.17539	6.46454	0.2633419	0.18608656	3.0385010	21	9 3.8	19.6
474207 2000 SR_{159}	17.0	X	271.71833	12.49441	45.84472	2.23548	0.1626070	0.18121050	3.0927666	21	8 11.7	21.4
474208 2000 SJ_{298}	18.3	X	194.40400	133.23163	223.47590	5.20624	0.2071238	0.30936480	2.1651540	21	2 26.4	21.7
474209 2000 SE_{302}	16.4	X	309.23029	340.83662	13.25799	17.84765	0.2926432	0.18161713	3.0881485	21	6 17.7	20.6
474210 2000 SW_{309}	16.0	X	301.77649	152.09171	254.03680	22.25433	0.2673877	0.18332766	3.0689093	21	8 9.8	20.3
474211 2000 SO_{320}	17.6	X	54.11856	336.96454	72.08967	4.08401	0.1662761	0.24733582	2.5134951	21	—	—
474212 2000 SH_{344}	18.4	X	34.70328	343.68883	89.94934	6.44051	0.3184276	0.24116126	2.5562168	21	—	—
474213 2000 TT_{6}	17.0	X	334.61399	206.76652	191.04498	2.36242	0.2236615	0.18821285	3.0155732	21	10 24.5	19.6
474214 2000 UA_{16}	16.1	X	297.90767	341.01015	53.75129	17.91197	0.2814925	0.18154647	3.0889497	21	8 2.7	20.4
474215 2000 UD_{30}	17.4	X	175.24389	63.53394	32.78920	20.52304	0.1073827	0.36402879	1.9425799	21	6 15.2	20.3
474216 2000 UF_{56}	15.6	X	330.37819	309.33385	67.82833	21.67983	0.3515421	0.18373000	3.0644273	21	9 14.8	18.6
474217 2000 UO_{70}	16.9	X	117.00185	120.69911	255.65169	3.13469	0.2625325	0.25177382	2.4838708	21	1 21.8	20.1
474218 2000 UW_{96}	15.9	X	297.58404	4.53704	34.54755	17.86131	0.1944162	0.18114847	3.0934725	21	8 26.9	20.1
474219 2000 VT_{64}	17.4	X	33.98489	126.16599	286.03861	3.65328	0.2425742	0.24359210	2.5391825	21	—	—
474220 2000 WM_{113}	15.8	X	242.51558	187.22902	262.42412	14.81715	0.2302250	0.17548207	3.1597123	21	8 3.9	21.1
474221 2001 AX_{35}	16.4	X	255.36667	64.72414	65.04388	8.15579	0.2826231	0.18104489	3.0946524	21	10 7.4	21.1
474222 2001 BO_{56}	16.1	X	239.86019	132.05567	306.93505	15.46974	0.1857246	0.17191751	3.2032387	21	7 29.2	21.1
474223 2001 CC_{32}	19.0	X	206.04182	251.95581	318.22578	39.97671	0.3476549	0.46782389	1.6434170	21	—	—
474224 2001 CR_{36}	17.1	X	241.91519	225.37214	306.95072	12.55494	0.1922760	0.23032153	2.6358035	21	11 26.5	21.0
474225 2001 DB_{4}	16.8	X	63.41336	77.00700	334.33353	26.03197	0.3787387	0.24356634	2.5393615	21	—	—
474226 2001 DQ_{6}	17.0	X	18.29651	185.07174	335.90549	22.97211	0.2479838	0.29305616	2.2447543	21	1 15.0	19.2
474227 2001 DS_{89}	16.0	X	294.59358	163.88387	306.77802	24.28029	0.1709591	0.22981917	2.6396431	21	11 26.2	19.4
474228 2001 DK_{108}	16.3	X	334.79813	129.63286	347.53691	31.95090	0.1792334	0.23406969	2.6075897	21	—	—
474229 2001 FR_{107}	17.4	X	355.05310	187.03012	335.28167	6.77675	0.1516680	0.28983323	2.2613646	21	—	—
474230 2001 FF_{220}	18.2	X	214.25928	71.08755	189.84062	3.90365	0.1694294	0.27975209	2.3153705	21	—	—
474231 2001 HZ_{7}	20.0	X	168.53170	312.86915	156.29646	5.42551	0.4985325	0.55324324	1.4695757	21	7 6.9	22.4
474232 2001 PO_{53}	17.9	X	115.75792	262.99049	76.52225	5.67530	0.2465520	0.26510744	2.3998721	21	—	—
474233 2001 QV_{122}	17.5	X	140.00519	206.88903	130.05486	8.47268	0.2433038	0.26796536	2.3827782	21	—	—
474234 2001 QM_{123}	17.4	X	114.40316	334.99522	13.97475	3.72129	0.2244629	0.26545070	2.3978028	21	—	—
474235 2001 QC_{207}	18.0	X	141.03246	20.20671	314.19240	1.68519	0.2380120	0.26770627	2.3843153	21	—	—
474236 2001 QW_{317}	17.9	X	80.33399	31.85281	335.60183	3.90711	0.1985168	0.26280211	2.4138863	21	—	—
474237 2001 RN_{13}	18.2	X	111.88218	47.16428	299.42021	2.91827	0.2146815	0.26366796	2.4085988	21	—	—
474238 2001 RU_{17}	21.5	X	266.26244	330.32952	170.68298	13.88294	0.2408840	1.05021331	0.9585565	21	—	—
474239 2001 RH_{30}	17.9	X	151.03541	312.29380	3.91233	4.68070	0.2115492	0.26683472	2.3895043	21	—	—
474240 2001 RK_{89}	17.6	X	88.06680	243.82789	169.42951	8.35094	0.2895572	0.26527349	2.3988706	21	1 28.8	19.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
474241 2001 RX_{112}	18.4	X	124.48626	47.87632	292.90368	0.34513	0.1981337	0.26517059	2.3994911	21	—	—
474242 2001 RJ_{131}	17.4	X	107.95720	32.19834	12.85873	6.60253	0.1128218	0.26923632	2.3752734	21	1 23.2	20.2
474243 2001 ST_{5}	18.0	X	283.31751	6.54402	5.33847	21.43660	0.0557159	0.38908632	1.8582554	21	7 27.6	20.2
474244 2001 ST_{16}	17.9	X	100.78361	274.99161	107.86833	1.89372	0.2351112	0.26475946	2.4019745	21	—	—
474245 2001 SY_{17}	18.0	X	122.44516	218.65898	142.02762	3.18244	0.2156554	0.26591437	2.3950147	21	—	—
474246 2001 SK_{27}	18.1	X	121.01808	213.41163	147.18582	1.29572	0.2455564	0.26536584	2.3983140	21	1 1.4	20.9
474247 2001 SH_{61}	16.9	X	67.93850	180.78727	194.01257	8.59621	0.2833797	0.25806490	2.4433373	21	—	—
474248 2001 SR_{103}	16.6	X	280.05896	46.93819	355.43035	5.19037	0.1718157	0.19180418	2.9778125	21	8 1.5	20.7
474249 2001 SU_{113}	18.6	X	359.74861	149.68326	189.23211	20.98450	0.0950986	0.39551739	1.8380571	21	10 27.3	19.8
474250 2001 SC_{130}	17.7	X	86.24455	211.70059	191.09755	4.88472	0.2249116	0.26470671	2.4022936	21	—	—
474251 2001 SL_{156}	17.5	X	99.72788	26.43293	307.31277	4.46126	0.2813582	0.26097714	2.4251266	21	—	—
474252 2001 SO_{196}	18.3	X	113.85398	206.34216	167.41865	2.42778	0.1533373	0.26641813	2.3919946	21	—	—
474253 2001 SH_{217}	18.0	X	64.48741	219.66789	179.30563	2.10144	0.2121598	0.26126059	2.4233721	21	—	—
474254 2001 SE_{231}	18.1	X	100.96490	324.53086	44.53235	3.38455	0.2221181	0.26279244	2.4139456	21	—	—
474255 2001 ST_{244}	17.3	X	43.26646	46.80003	28.93808	6.01310	0.2406801	0.26098694	2.4250658	21	—	—
474256 2001 SK_{255}	17.5	X	129.13678	310.73378	22.60776	11.96502	0.2077701	0.26293578	2.4130681	21	—	—
474257 2001 SR_{275}	17.9	X	77.65841	202.13207	180.62937	6.42915	0.1202986	0.26155959	2.4215249	21	—	—
474258 2001 SG_{285}	18.1	X	95.96055	33.63886	7.67671	5.04856	0.2207669	0.26459626	2.4029621	21	1 16.9	20.5
474259 2001 SV_{307}	17.9	X	139.29460	295.06904	32.96416	1.89779	0.2139307	0.26528187	2.3988201	21	—	—
474260 2001 SA_{321}	17.2	X	351.37994	319.88836	72.87180	0.77722	0.2086077	0.20068278	2.8893222	21	11 26.4	20.0
474261 2001 SQ_{326}	18.1	X	125.84224	84.33714	256.17688	1.79332	0.2408237	0.26543038	2.3979252	21	—	—
474262 2001 SC_{331}	18.4	X	31.53585	52.62657	343.68866	1.81261	0.1847716	0.25711906	2.4493257	21	—	—
474263 2001 TO_{46}	16.8	X	92.05870	303.96749	138.62704	23.15882	0.3613392	0.26575465	2.3959742	21	4 9.1	20.3
474264 2001 TV_{84}	18.2	X	106.90015	319.48406	33.59255	3.63438	0.2353407	0.26206389	2.4184174	21	—	—
474265 2001 TV_{112}	16.4	X	289.11811	183.33858	224.52015	11.01228	0.2066600	0.19104654	2.9856801	21	8 9.8	20.6
474266 2001 TL_{120}	16.9	X	313.77834	123.48821	296.87128	10.33376	0.2786370	0.19508411	2.9443411	21	9 27.2	20.0
474267 2001 TY_{155}	17.3	X	8.65528	179.02701	191.29192	5.64234	0.1350670	0.20072719	2.8888960	21	11 20.6	20.8
474268 2001 TK_{157}	18.0	X	55.21756	233.36546	195.46277	4.50479	0.2152065	0.26047058	2.4282697	21	—	—
474269 2001 TT_{160}	16.4	X	197.76025	252.21415	222.32693	11.85750	0.1753127	0.18407038	3.0606484	21	7 30.7	21.7
474270 2001 TQ_{179}	16.8	X	353.45746	7.77889	8.28694	6.61510	0.2284994	0.19795391	2.9158152	21	11 6.2	19.6
474271 2001 TS_{183}	17.6	X	356.71544	152.79568	208.18659	15.02814	0.2432706	0.19728295	2.9224226	21	10 26.5	20.1
474272 2001 TR_{188}	17.6	X	123.76148	17.76611	336.98660	2.30981	0.2491429	0.26351162	2.4095514	21	—	—
474273 2001 TT_{193}	17.9	X	58.85376	177.98413	214.10792	4.63893	0.2246569	0.25900046	2.4374499	21	—	—
474274 2001 TY_{207}	18.6	X	84.82060	242.72009	157.93046	1.45202	0.1790462	0.26360487	2.4089832	21	—	—
474275 2001 TL_{251}	18.2	X	342.26249	223.62602	170.41382	6.79663	0.2221142	0.19860785	2.9094112	21	11 10.5	21.0
474276 2001 TQ_{257}	16.9	X	287.27699	52.27465	339.69365	3.18189	0.1317485	0.19006208	2.9959811	21	8 2.9	20.9
474277 2001 UD_{1}	15.8	X	49.64766	123.59614	327.50422	21.83980	0.3547043	0.26346118	2.4098590	21	—	—
474278 2001 UT_{17}	18.7	X	329.14198	342.16452	48.17772	30.39902	0.2525858	0.39635655	1.8354618	21	12 7.8	19.5
474279 2001 UK_{31}	17.6	X	73.86555	357.65405	61.78362	2.23942	0.1723698	0.26391639	2.4070871	21	—	—
474280 2001 UM_{40}	17.6	X	95.26411	329.00937	65.26631	3.24760	0.2215799	0.26359072	2.4090694	21	1 4.8	19.9
474281 2001 UQ_{49}	17.4	X	87.76334	317.75222	79.10708	9.76335	0.2438621	0.26184050	2.4197928	21	—	—
474282 2001 UV_{55}	18.0	X	126.51784	336.49092	6.59314	2.77031	0.2081020	0.26417109	2.4055397	21	—	—
474283 2001 UM_{106}	17.9	X	39.65064	263.72142	148.71455	2.77717	0.1831942	0.25715994	2.4490661	21	—	—
474284 2001 UY_{225}	17.9	X	91.16141	287.32854	70.71666	5.99687	0.1493927	0.26037514	2.4288631	21	—	—
474285 2001 UC_{230}	17.9	X	31.55493	321.66135	102.70685	5.43557	0.1768155	0.25722444	2.4486567	21	—	—
474286 2001 VG_{79}	17.4	X	68.29818	149.23299	239.95236	8.91760	0.2155368	0.25807387	2.4432807	21	—	—
474287 2001 WD_{26}	17.7	X	53.15167	320.62579	72.45737	4.14329	0.2015893	0.25690005	2.4507176	21	—	—
474288 2001 WE_{62}	17.8	X	66.48481	150.45873	262.65236	1.59760	0.1787252	0.26009280	2.4306205	21	—	—
474289 2001 WC_{86}	16.2	X	280.88205	310.86412	69.24055	11.79838	0.0698242	0.18353990	3.0665430	21	7 19.6	20.5
474290 2001 WH_{86}	17.8	X	43.20316	329.81391	90.57665	2.33556	0.1764602	0.25644495	2.4536161	21	—	—
474291 2001 WA_{88}	16.3	X	296.05892	135.53046	248.01493	10.55998	0.1186298	0.18782799	3.0196910	21	8 1.6	20.5
474292 2001 WL_{100}	17.9	X	303.38182	149.63685	246.69685	5.80105	0.2398899	0.19057010	2.9906543	21	8 13.0	21.6
474293 2001 WR_{101}	18.1	X	65.04436	231.48075	215.99157	2.35024	0.2020896	0.26224177	2.4173237	21	1 19.4	19.9
474294 2001 XC_{1}	18.7	X	261.17433	27.04498	89.89093	31.15388	0.2096225	0.39303056	1.8458023	21	11 24.5	20.2
474295 2001 XX_{10}	18.0	X	198.85586	345.64322	88.80745	38.36378	0.0090473	0.53006057	1.5121181	21	6 15.4	18.0
474296 2001 XX_{27}	15.5	X	198.83706	191.76364	326.12554	17.03052	0.3581847	0.18147975	3.0897068	21	9 12.4	21.5
474297 2001 XD_{32}	17.7	X	97.14344	110.09685	249.75196	5.03372	0.1853744	0.25890561	2.4380451	21	—	—
474298 2001 XN_{122}	17.5	X	48.73334	318.70450	74.52578	2.28001	0.1858012	0.25546559	2.4598829	21	—	—
474299 2001 XM_{124}	17.4	X	59.65376	349.46508	85.97967	9.29276	0.1514440	0.26111393	2.4242795	21	—	—
474300 2001 XS_{128}	17.8	X	86.29344	195.83050	221.04130	4.14559	0.1913125	0.26259408	2.4151610	21	1 15.1	20.2
474301 2001 XM_{187}	16.8	X	305.95393	321.42702	117.69038	10.16569	0.2427251	0.19213939	2.9743480	21	10 24.0	20.1
474302 2001 XK_{229}	18.0	X	95.26764	334.74265	47.72460	2.71163	0.2376983	0.26037479	2.4288653	21	—	—
474303 2001 XL_{248}	16.0	X	318.63407	324.17826	105.34390	11.18485	0.0828398	0.19174983	2.9783750	21	11 16.4	19.9
474304 2001 XN_{253}	16.0	X	231.89385	330.24028	108.86697	2.49056	0.0713968	0.17997053	3.1069562	21	8 2.1	20.6
474305 2001 YN_{15}	15.6	X	314.89047	259.14352	82.60079	11.92214	0.1066581	0.18263584	3.0766544	21	7 10.9	19.6
474306 2001 YT_{31}	15.6	X	171.42509	178.26669	257.93822	1.62341	0.1856555	0.12505495	3.9603672	21	5 28.2	21.9
474307 2001 YR_{57}	16.5	X	261.28467	197.34055	281.41964	4.27100	0.2082835	0.19137786	2.9822331	21	10 5.4	20.7
474308 2001 YX_{156}	16.3	X	208.70249	192.99698	288.58826	10.12041	0.1700503	0.17992733	3.1074534	21	8 18.7	21.4
474309 2002 AB_{26}	15.7	X	158.82370	209.17165	294.94315	15.92509	0.1330218	0.17610769	3.1522247	21	8 2.1	20.8
474310 2002 AN_{50}	16.9	X	276.70632	286.18446	157.93770	2.14396	0.2481841	0.18655407	3.0334224	21	9 6.9	21.0
474311 2002 AG_{65}	16.5	X	271.28841	327.27352	137.90798	7.01875	0.3329736	0.18881164	3.0091941	21	9 16.6	20.8
474312 2002 AW_{139}	17.2	X	88.58592	331.30862	89.60885	14.95370	0.1549276	0.26372511	2.4082509	21	1 21.5	19.8
474313 2002 AO_{142}	16.1	X	162.67629	206.63972	287.66180	18.54687	0.1220941	0.17643871	3.1482809	21	7 24.4	21.2
474314 2002 AQ_{172}	16.1	X	185.08390	175.30131	311.30725	10.41782	0.1213665	0.17744906	3.1363191	21	8 7.6	21.0
474315 2002 AT_{172}	16.7	X	204.19838	184.36665	308.51856	20.89320	0.2064482	0.18098016	3.0953902	21	8 23.6	22.1
474316 2002 BK_{28}	16.2	X	292.60116	139.27571	298.97585	17.33722	0.1354488	0.18836635	3.0139346	21	9 28.7	20.5
474317 2002 CX_{54}	15.7	X	204.01922	183.11394	324.82268	16.81392	0.1945895	0.18114333	3.0935310	21	9 11.8	21.0
474318 2002 CB_{72}	16.2	X	209.15679	245.55033	325.22480	17.15801	0.2095051	0.23987670	2.5653345	21	12 9.7	20.5
474319 2002 CQ_{187}	16.7	X	210.69568	338.75872	130.57459	11.38772	0.2238774	0.17779155	3.1322901	21	8 6.0	21.9
474320 2002 CQ_{204}	16.3	X	246.75248	306.95830	141.26917	11.64919	0.1636657	0.17977141	3.1092499	21	8 19.6	21.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
474321 2002 CK_{218}	15.8	X	215.48876	102.95739	346.49262	25.93338	0.2201830	0.17568963	3.1572233	21	7 26.8	21.4
474322 2002 CH_{229}	16.7	X	230.25425	128.40057	309.15780	13.87181	0.1598380	0.17874087	3.1211894	21	7 21.5	21.6
474323 2002 CE_{258}	18.1	X	69.72086	289.88800	132.99015	4.78025	0.2131202	0.25685027	2.4510342	21	—	—
474324 2002 CY_{261}	16.7	X	216.53414	355.99895	134.82551	13.99401	0.2603447	0.18315715	3.0708137	21	9 5.4	22.0
474325 2002 CS_{286}	17.0	X	197.52069	272.24685	320.57795	8.20389	0.1457880	0.24198049	2.5504441	21	—	—
474326 2002 CJ_{297}	16.6	X	253.21176	92.31647	304.59920	14.62138	0.2207754	0.17886038	3.1197990	21	6 17.7	21.6
474327 2002 DV_{18}	16.9	X	269.18555	116.31247	41.26015	13.11730	0.2317313	0.24306717	2.5428369	21	12 11.7	19.9
474328 2002 EK_{4}	17.0	X	192.63812	238.99172	349.46331	12.33863	0.1212412	0.23825969	2.5769283	21	12 24.4	21.0
474329 2002 ET_{25}	16.7	X	197.66436	219.78029	352.67525	13.83120	0.1276858	0.23671339	2.5881385	21	12 6.2	20.9
474330 2002 ED_{90}	15.7	X	168.77916	330.64200	164.87771	28.20246	0.1639701	0.17263777	3.1943231	21	8 2.2	21.3
474331 2002 EE_{141}	17.0	X	286.12197	328.91887	147.66341	6.29843	0.2406245	0.18996564	2.9969950	21	11 5.0	20.6
474332 2002 FC_{30}	16.4	X	192.28064	180.77565	67.56407	12.47142	0.1310696	0.24136031	2.5548112	21	—	—
474333 2002 GU_{9}	18.3	X	155.55760	296.30381	204.02633	21.40884	0.0729984	0.37351389	1.9095523	21	7 24.2	21.2
474334 2002 GZ_{64}	16.5	X	233.61660	108.91895	43.87555	13.33110	0.1891456	0.23279179	2.6171239	21	10 27.7	20.3
474335 2002 GK_{65}	16.9	X	139.17331	66.54265	199.48275	12.66720	0.2368912	0.23148219	2.6269854	21	12 16.3	21.7
474336 2002 GG_{71}	16.8	X	249.43904	102.24473	44.14224	12.63589	0.1376935	0.23497686	2.6008740	21	11 12.6	20.0
474337 2002 HM_{6}	17.1	X	162.60990	207.50374	21.86822	14.02690	0.2130346	0.23142591	2.6274113	21	11 18.4	21.8
474338 2002 JT_{56}	17.6	X	101.63115	337.24168	232.84512	19.12759	0.0473612	0.37221186	1.9140028	21	8 20.1	20.2
474339 2002 NH_{64}	17.5	X	66.05837	330.43675	3.75724	1.89770	0.1772354	0.22120162	2.7077621	21	12 29.7	21.6
474340 2002 OM_{5}	17.0	X	20.59644	75.82603	264.66639	6.17023	0.2387082	0.21395214	2.7685877	21	11 16.6	20.1
474341 2002 ON_{32}	17.3	X	150.42766	238.73245	19.70403	3.99602	0.1604348	0.22476065	2.6791017	21	12 15.5	21.7
474342 2002 OL_{33}	18.4	X	205.86609	71.16454	229.53548	4.50091	0.1355259	0.28915391	2.2649051	21	—	—
474343 2002 PJ	16.7	X	84.92643	341.34644	301.24591	8.63575	0.2029899	0.21842298	2.7306781	21	11 16.4	21.1
474344 2002 PO_{80}	17.7	X	246.82068	147.04372	114.04030	8.10533	0.2267370	0.29124155	2.2540688	21	—	—
474345 2002 PQ_{173}	18.2	X	146.88392	202.78025	172.81466	4.65439	0.2378225	0.28674823	2.2775551	21	2 13.5	21.6
474346 2002 PH_{185}	16.4	X	314.80145	73.26678	328.52543	8.06215	0.1932308	0.20958198	2.8069419	21	9 20.4	19.4
474347 2002 PH_{187}	17.5	X	141.72517	37.97685	4.00152	6.87721	0.1571846	0.29041829	2.2583266	21	3 6.6	20.6
474348 2002 QR_{3}	18.4	X	161.04166	43.78215	286.74221	5.02672	0.2790610	0.28445072	2.2898025	21	1 6.9	21.7
474349 2002 QG_{27}	18.2	X	199.89827	229.12558	101.59758	2.21622	0.1926111	0.29024871	2.2592061	21	2 3.2	21.8
474350 2002 QN_{52}	19.0	X	168.74957	167.61016	148.97423	6.44494	0.2746379	0.28442487	2.2899412	21	—	—
474351 2002 QT_{55}	17.0	X	58.69369	321.73592	342.90324	7.48402	0.2120862	0.21504384	2.7592097	21	11 16.6	21.0
474352 2002 QH_{63}	17.3	X	35.36932	79.91943	284.67196	2.11665	0.2068123	0.21740569	2.7391897	21	—	—
474353 2002 QC_{68}	18.8	X	142.70290	349.99136	1.59333	1.09692	0.2249085	0.28362905	2.2942227	21	1 9.3	21.7
474354 2002 QK_{71}	18.1	X	162.34356	7.12177	328.63589	3.54603	0.2182549	0.28516372	2.2859841	21	1 8.9	21.3
474355 2002 QV_{88}	18.4	X	133.96332	99.13941	281.98615	0.62078	0.1523594	0.28583530	2.2824020	21	1 26.8	21.0
474356 2002 QO_{95}	17.1	X	29.80784	343.10949	5.00699	6.12170	0.1086584	0.21549235	2.7553799	21	11 20.3	20.7
474357 2002 QU_{106}	16.8	X	15.55572	69.67662	320.46964	8.27197	0.1118812	0.21888332	2.7268480	21	12 27.8	20.3
474358 2002 QO_{111}	17.1	X	13.76056	114.32949	272.74046	3.91652	0.1213467	0.21769878	2.7367306	21	12 21.5	20.5
474359 2002 QX_{111}	17.0	X	33.05367	172.21909	193.23311	5.40151	0.1403317	0.21775954	2.7362215	21	12 23.6	20.6
474360 2002 QV_{121}	18.4	X	105.40110	197.13569	182.02894	4.36181	0.2260007	0.28070596	2.3101222	21	—	—
474361 2002 QJ_{124}	18.1	X	170.99932	125.25265	161.78875	6.66927	0.1207232	0.28203762	2.3028449	21	—	—
474362 2002 QN_{127}	18.3	X	217.39324	245.51419	29.52871	3.24575	0.2081276	0.28707844	2.2758082	21	—	—
474363 2002 QZ_{131}	18.0	X	131.69232	4.35507	32.46112	2.98257	0.2458359	0.28649582	2.2788926	21	2 28.2	21.0
474364 2002 RJ_{16}	17.9	X	130.98440	150.81801	170.37600	4.04879	0.2707109	0.27885700	2.3203225	21	—	—
474365 2002 RR_{58}	17.7	X	160.60873	351.96126	318.59788	4.52345	0.2619025	0.28158100	2.3053338	21	—	—
474366 2002 RO_{85}	17.8	X	146.26914	358.54572	356.21342	5.64906	0.2941917	0.28305433	2.2973272	21	1 26.8	21.2
474367 2002 RA_{116}	16.5	X	78.31126	355.36587	324.70200	13.16395	0.1785723	0.21834965	2.7312894	21	12 25.7	20.9
474368 2002 RQ_{138}	17.7	X	112.46787	21.14970	3.30455	29.24349	0.2149887	0.28170210	2.3046731	21	1 27.4	21.1
474369 2002 RJ_{142}	17.0	X	352.87311	48.00350	320.69122	6.94764	0.2407594	0.21008379	2.8024703	21	10 27.9	19.6
474370 2002 RT_{157}	17.6	X	326.58827	78.78894	344.37933	6.88018	0.4335557	0.20781041	2.8228720	21	10 28.8	18.5
474371 2002 RL_{177}	17.9	X	131.34859	63.99831	307.37900	3.32355	0.1608604	0.28291451	2.2980840	21	1 12.6	20.6
474372 2002 RE_{207}	16.9	X	348.30326	212.23054	174.38803	8.17331	0.2247037	0.21068540	2.7971329	21	11 17.5	19.5
474373 2002 RB_{235}	18.3	X	198.16872	339.40337	314.20071	3.98673	0.1174297	0.28394988	2.2924942	21	—	—
474374 2002 RP_{254}	17.8	X	25.89979	66.44698	315.10098	2.34248	0.2041157	0.21658403	2.7461131	21	—	—
474375 2002 RK_{261}	18.6	X	131.31963	159.43670	202.33954	5.47385	0.1853257	0.28207391	2.3026474	21	1 2.6	21.5
474376 2002 RJ_{269}	18.1	X	32.01547	357.32049	344.64660	2.95054	0.2024260	0.21458550	2.7631373	21	11 30.5	21.6
474377 2002 RE_{270}	18.4	X	170.84919	350.65694	337.88294	1.28653	0.2099782	0.28549282	2.2842270	21	1 6.9	21.6
474378 2002 RT_{279}	18.3	X	141.95645	191.39834	179.42129	6.66570	0.1247888	0.28402369	2.2920971	21	1 18.2	21.2
474379 2002 SK_{25}	17.3	X	203.92117	297.82375	16.98326	23.42206	0.1638279	0.28641323	2.2793307	21	1 26.0	21.4
474380 2002 SK_{26}	18.0	X	166.44041	175.61831	179.31491	4.84711	0.2209455	0.28616414	2.2806532	21	2 4.3	21.6
474381 2002 SW_{59}	16.7	X	13.03805	332.88408	26.36565	14.19732	0.1997081	0.21212203	2.7844892	21	11 19.8	20.0
474382 2002 SX_{69}	19.1	X	159.71626	350.90373	338.73216	1.19098	0.2090527	0.28243004	2.3007113	21	—	—
474383 2002 SN_{70}	17.1	X	3.58964	18.95790	9.16007	6.33137	0.0499314	0.21374168	2.7704048	21	11 27.4	20.7
474384 2002 TB_{22}	16.5	X	356.10297	23.90747	20.21594	8.03250	0.2281330	0.21220687	2.7837470	21	12 28.2	19.4
474385 2002 TC_{43}	16.6	X	11.36031	32.21881	25.82494	24.13724	0.2765047	0.21429212	2.7656587	21	—	—
474386 2002 TT_{60}	17.0	X	129.96944	206.59778	180.92277	24.60446	0.2653802	0.28140116	2.3063159	21	2 13.1	20.6
474387 2002 TJ_{120}	17.7	X	166.02938	341.54432	354.07354	11.35779	0.2363530	0.28301767	2.2975255	21	1 16.9	21.4
474388 2002 TC_{124}	17.6	X	10.70330	104.31318	270.45170	6.24563	0.3242042	0.21233807	2.7826002	21	12 30.5	20.6
474389 2002 TP_{131}	18.2	X	149.11966	134.54490	219.38020	6.35456	0.2241665	0.28293581	2.2979687	21	1 17.4	21.5
474390 2002 TS_{141}	16.2	X	86.81279	270.65955	12.55620	29.66062	0.2215136	0.21443842	2.7644006	21	11 9.9	21.1
474391 2002 TC_{151}	17.2	X	7.92907	51.15426	325.18262	3.11943	0.2074905	0.21185271	2.7868485	21	12 8.3	20.2
474392 2002 TF_{157}	17.7	X	109.45074	272.98121	116.38464	7.59634	0.2821191	0.27966964	2.3158255	21	1 27.2	20.0
474393 2002 TU_{190}	16.4	X	36.84438	91.48065	304.44744	12.44952	0.3047916	0.21614960	2.7497915	21	—	—
474394 2002 TK_{224}	16.7	X	14.44579	187.60222	207.10247	7.71822	0.2266762	0.21320348	2.7750652	21	—	—
474395 2002 TB_{233}	17.5	X	170.66468	75.69510	272.42713	7.60112	0.2533089	0.28545804	2.2844125	21	2 1.3	21.2
474396 2002 TZ_{325}	18.2	X	76.71317	271.68053	182.65972	5.95704	0.0865484	0.28532408	2.2851275	21	1 31.7	20.6
474397 2002 TK_{327}	16.9	X	6.90677	358.54639	24.71198	5.85837	0.1062212	0.21320768	2.7750287	21	12 2.2	20.2
474398 2002 TO_{340}	17.2	X	340.89116	11.82371	47.29378	8.49227	0.2050475	0.21161566	2.7889294	21	12 13.9	19.8
474399 2002 TB_{368}	18.4	X	122.99793	247.07053	156.22383	7.92270	0.2676122	0.28266261	2.2994491	21	3 1.3	21.3
474400 2002 UF_{13}	16.6	X	344.58437	351.35662	77.67151	10.75098	0.2986509	0.21108532	2.7935987	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
474401 2002 UY_{13}	18.9	X	119.60172	341.38208	61.57370	9.81615	0.2831480	0.28205268	2.3027629	21	3 4.5	22.1
474402 2002 UG_{22}	16.8	X	11.79616	342.47543	55.07937	8.97368	0.2241651	0.21156389	2.7893843	21	—	—
474403 2002 UH_{23}	16.8	X	164.95746	340.11064	36.29748	26.56617	0.2226871	0.28653956	2.2786607	21	3 18.6	20.9
474404 2002 UY_{31}	17.7	X	123.14530	121.84766	282.91668	6.35701	0.2060171	0.28289629	2.2981827	21	2 19.7	20.7
474405 2002 UX_{41}	17.5	X	169.26905	58.71147	33.29736	21.11821	0.0717919	0.34891912	1.9982640	21	5 28.6	20.2
474406 2002 VH_{8}	16.2	X	323.97754	61.75548	18.50101	16.76305	0.1777476	0.21008432	2.8024656	21	12 3.2	19.3
474407 2002 VF_{65}	17.6	X	126.73722	331.76855	58.37372	9.51039	0.1881646	0.28137634	2.3064515	21	2 8.9	20.7
474408 2002 VR_{92}	18.0	X	117.16917	246.07158	146.16640	2.75151	0.2386232	0.27971424	2.3155793	21	2 3.2	20.8
474409 2002 VM_{126}	17.7	X	92.48102	38.49815	44.03859	7.40265	0.2152694	0.28042449	2.3116678	21	3 9.5	20.1
474410 2002 VY_{143}	16.4	X	319.39434	191.12402	219.02118	12.25396	0.0710640	0.20560178	2.8430520	21	10 22.1	20.1
474411 2002 VH_{145}	18.3	X	139.38046	248.49065	113.98528	2.83010	0.2315953	0.28046575	2.3114411	21	1 21.0	21.4
474412 2002 WT	16.6	X	113.42839	94.28316	311.18912	23.06407	0.3007139	0.27936562	2.3175053	21	2 18.9	19.7
474413 2002 WU_{6}	17.6	X	173.56345	82.05375	57.33944	19.30495	0.1552228	0.35221190	1.9857902	21	8 31.3	20.9
474414 2002 WY_{8}	17.6	X	84.07992	57.60447	20.27986	6.65481	0.1735155	0.27985843	2.3147839	21	2 7.5	19.8
474415 2002 WY_{26}	18.8	X	120.71393	330.20840	49.68234	4.06899	0.2644807	0.27999993	2.3140040	21	1 27.8	21.6
474416 2002 WJ_{28}	16.3	X	48.92183	272.87113	68.93143	20.76445	0.2159701	0.21102069	2.7941692	21	12 21.7	20.4
474417 2002 XS_{1}	17.8	X	79.34477	289.79153	103.99688	3.41917	0.2828328	0.27402172	2.3475385	21	—	—
474418 2002 XZ_{37}	16.9	X	357.70733	158.35302	283.95028	12.27819	0.3502771	0.21374148	2.7704066	21	—	—
474419 2002 XO_{38}	16.3	X	143.04840	134.43336	262.07752	23.19594	0.2692268	0.28334257	2.2957689	21	2 27.9	20.4
474420 2002 XT_{72}	17.8	X	161.52527	356.65555	43.63396	5.10116	0.2045390	0.28609292	2.2810316	21	3 30.6	21.2
474421 2002 XR_{117}	18.0	X	126.34659	291.92186	95.48648	5.30172	0.2470077	0.28054630	2.3109986	21	2 11.1	21.0
474422 2002 XX_{117}	18.3	X	106.18275	260.36608	140.32920	6.26405	0.2431622	0.27816352	2.3241773	21	1 31.2	20.7
474423 2002 XD_{120}	18.4	X	90.89973	305.22975	123.08712	3.04545	0.1806131	0.27843157	2.3226854	21	2 4.4	20.7
474424 2002 YZ_{1}	17.2	X	89.93264	82.29835	27.79856	21.62906	0.2945065	0.28009323	2.3134901	21	4 22.6	19.8
474425 2002 YF_{4}	18.8	X	318.46174	93.56542	61.68936	33.67433	0.3341947	0.42403706	1.7546891	21	—	—
474426 2003 AV_{80}	16.2	X	1.50314	90.97892	75.75537	22.07116	0.2920242	0.26917762	2.3756188	21	—	—
474427 2003 BR_{11}	16.7	X	14.39662	173.48087	315.06342	21.22711	0.0905909	0.26864124	2.3787799	21	—	—
474428 2003 DC_{10}	17.5	X	69.58210	84.16977	44.01555	23.22883	0.2485845	0.27687234	2.3313975	21	4 16.5	19.8
474429 2003 ER_{13}	16.3	X	191.42118	170.10422	339.68578	9.87417	0.2132487	0.18901093	3.0070785	21	9 7.8	21.4
474430 2003 EC_{29}	17.4	X	295.78560	138.39135	8.79074	11.10404	0.1835682	0.25670731	2.4519441	21	—	—
474431 2003 FT_{130}	15.7	X	75.65699	199.26325	27.49525	24.86372	0.1856777	0.17661471	3.1461890	21	9 9.1	20.6
474432 2003 FF_{133}	16.4	X	125.61804	20.08586	186.99872	13.19666	0.1170479	0.18311235	3.0713145	21	9 15.9	21.1
474433 2003 GJ_{2}	16.0	X	83.63485	351.05370	192.32654	27.57702	0.1073703	0.17358720	3.1826649	21	6 27.9	21.0
474434 2003 GS_{26}	16.0	X	57.17876	248.88585	15.62485	17.26006	0.2102560	0.17823769	3.1270610	21	9 26.5	20.2
474435 2003 GB_{32}	15.8	X	83.08832	155.54478	24.66591	15.22578	0.1951467	0.17270621	3.1934791	21	7 10.7	20.6
474436 2003 GF_{53}	16.8	X	78.84893	103.55153	202.68597	27.50127	0.3946159	0.23552225	2.5968573	21	12 25.3	22.0
474437 2003 GZ_{56}	16.3	X	125.02143	164.66869	26.72666	16.77051	0.0608472	0.17963407	3.1108345	21	8 31.7	21.1
474438 2003 HU_{23}	18.9	X	58.40136	61.39294	203.17473	22.22452	0.0639206	0.39628949	1.8356689	21	9 23.2	20.6
474439 2003 HK_{52}	15.7	X	52.77742	19.93578	211.21490	30.18406	0.2389544	0.17192415	3.2031563	21	7 31.7	20.5
474440 2003 NH_{5}	18.4	X	268.22446	80.90145	195.92273	4.89118	0.2748316	0.31443452	2.1418180	21	1 17.3	22.0
474441 2003 OE_{13}	17.1	X	84.49804	353.29937	312.35884	5.83127	0.4354350	0.23216918	2.6218007	21	—	—
474442 2003 PQ_{9}	17.6	X	28.31554	215.51409	154.78788	9.19693	0.4287612	0.22707083	2.6608996	21	—	—
474443 2003 QJ_{5}	17.0	X	89.94013	120.96545	184.12140	28.28988	0.3963374	0.23316086	2.6143613	21	—	—
474444 2003 QD_{14}	16.9	X	65.09927	172.13299	175.81602	13.63363	0.2132513	0.23227039	2.6210390	21	—	—
474445 2003 QO_{76}	17.2	X	71.54065	37.80478	313.54827	4.43114	0.3348258	0.23228011	2.6209659	21	—	—
474446 2003 QH_{99}	17.2	X	77.66427	78.96639	255.60951	2.56172	0.2443390	0.23266299	2.6180896	21	—	—
474447 2003 QL_{109}	17.1	X	43.78044	3.08353	358.56385	6.21124	0.1830244	0.23023472	2.6364659	21	—	—
474448 2003 QN_{109}	16.1	X	357.36783	82.97542	275.26210	10.05128	0.2066270	0.22210665	2.7004015	21	10 21.2	18.9
474449 2003 RU_{20}	16.6	X	28.16777	32.86128	3.07507	12.26241	0.2951149	0.22917997	2.6445490	21	—	—
474450 2003 SU_{10}	18.4	X	179.81631	43.54012	352.07866	3.38001	0.1061871	0.30890884	2.1672840	21	3 31.7	21.3
474451 2003 SR_{15}	21.6	X	65.49706	255.60541	176.19886	14.08495	0.2782444	0.68253754	1.2775709	21	—	—
474452 2003 SF_{31}	18.3	X	310.27309	151.52084	190.93837	24.58653	0.1522724	0.37702500	1.8976784	21	6 22.8	20.6
474453 2003 SY_{36}	16.7	X	45.26583	5.76655	12.05176	12.12521	0.1820050	0.22983744	2.6395032	21	—	—
474454 2003 SU_{41}	16.4	X	96.13973	326.45441	357.48784	33.27475	0.2323488	0.23175117	2.6249523	21	—	—
474455 2003 SL_{53}	17.3	X	56.34600	68.61247	296.13039	11.31641	0.2784185	0.23193227	2.6235858	21	—	—
474456 2003 SH_{55}	17.2	X	35.70254	152.63125	241.75224	3.80182	0.3129966	0.22984190	2.6394691	21	—	—
474457 2003 SS_{57}	16.8	X	20.61483	20.14916	11.08035	8.17722	0.3349669	0.22617246	2.6679411	21	—	—
474458 2003 SF_{61}	17.2	X	47.53539	358.48444	23.26850	5.16310	0.2920739	0.23107294	2.6300863	21	—	—
474459 2003 SK_{77}	17.6	X	25.68370	109.35499	267.38913	5.19576	0.2785237	0.22698218	2.6615923	21	—	—
474460 2003 SA_{82}	17.2	X	108.70915	309.25374	15.82323	4.70573	0.1981480	0.23451987	2.6042517	21	—	—
474461 2003 SP_{85}	16.4	X	2.13658	95.32802	296.14808	11.25619	0.2733930	0.22462061	2.6802151	21	—	—
474462 2003 SR_{94}	18.2	X	11.42956	255.20541	206.61475	2.44732	0.2449434	0.23625123	2.5915127	21	—	—
474463 2003 SG_{105}	17.6	X	130.26099	284.55712	358.95925	1.64373	0.2039767	0.23246114	2.6196050	21	12 29.7	22.1
474464 2003 SE_{108}	17.0	X	359.39880	115.58974	273.55727	4.29717	0.1899232	0.22315718	2.6919200	21	12 11.5	19.9
474465 2003 SB_{133}	17.3	X	15.54155	38.17324	17.47087	7.46203	0.2448779	0.22787612	2.6546270	21	—	—
474466 2003 SJ_{160}	18.1	X	179.59052	68.17970	309.98639	4.49477	0.1945866	0.30743177	2.1742203	21	3 12.6	21.4
474467 2003 SJ_{174}	16.9	X	7.62545	5.03818	346.99201	6.16940	0.2190656	0.22215486	2.7000108	21	11 6.2	19.7
474468 2003 SX_{183}	17.6	X	40.05697	156.39962	212.34266	1.74076	0.2700461	0.22796364	2.6539475	21	—	—
474469 2003 SW_{197}	17.0	X	51.73151	348.28575	22.34705	7.87832	0.1937267	0.23023153	2.6364903	21	—	—
474470 2003 SA_{201}	17.1	X	69.24518	44.89607	308.06031	2.41122	0.2152312	0.23154090	2.6265413	21	—	—
474471 2003 SS_{206}	16.7	X	42.71557	344.80213	1.21234	11.69562	0.1820121	0.22737222	2.6585476	21	12 19.4	20.5
474472 2003 SH_{211}	17.1	X	24.65516	260.60261	120.05789	7.32350	0.2740130	0.22751763	2.6574148	21	—	—
474473 2003 SE_{215}	17.9	X	7.50759	263.69410	359.33358	19.03635	0.0529815	0.37507168	1.9042613	21	6 9.5	20.0
474474 2003 SJ_{215}	19.4	X	122.64536	155.53408	269.76934	6.17641	0.4250045	0.30115867	2.2043090	21	4 11.9	23.0
474475 2003 SA_{221}	17.1	X	79.50985	142.75569	208.39327	11.49882	0.2364292	0.23217943	2.6217235	21	—	—
474476 2003 SB_{235}	17.5	X	10.23447	96.03527	309.11497	6.35379	0.2834388	0.22708280	2.6608061	21	—	—
474477 2003 SD_{243}	17.8	X	58.58363	339.54861	348.74011	3.00057	0.2075314	0.22777447	2.6554167	21	12 19.3	21.7
474478 2003 SA_{251}	18.1	X	9.72394	317.05187	15.39840	19.49123	0.1122067	0.38440177	1.8733221	21	10 26.9	19.5
474479 2003 SA_{276}	17.3	X	317.16408	58.69118	336.17574	3.85936	0.1173186	0.21692805	2.7432091	21	9 25.8	20.3
474480 2003 SB_{288}	18.4	X	163.88744	122.01811	267.41324	5.87653	0.1778600	0.30378124	2.1916040	21	3 9.7	21.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
474481 2003 SY_{299}	17.3	X	76.45815	185.55599	161.12663	3.18684	0.2451445	0.23105257	2.6302408	21	—	—
474482 2003 SP_{321}	17.1	X	344.20396	308.92231	90.72235	2.81215	0.0964533	0.22337389	2.6901786	21	11 20.9	20.2
474483 2003 SL_{323}	18.0	X	7.49647	145.45352	244.39883	2.08767	0.2018589	0.22621436	2.6676116	21	12 29.3	20.9
474484 2003 SA_{324}	18.5	X	106.57394	73.75621	316.82033	2.62285	0.1801744	0.29542940	2.2327165	21	1 2.0	20.5
474485 2003 SD_{324}	18.3	X	205.98023	173.28228	173.61517	2.88272	0.1855838	0.30627919	2.1796716	21	2 25.7	21.5
474486 2003 SB_{330}	17.2	X	323.29476	114.50458	351.84094	10.97006	0.1480285	0.23041815	2.6350666	21	—	—
474487 2003 SL_{337}	17.4	X	5.91609	43.53875	324.76559	5.67167	0.0334011	0.22458448	2.6805025	21	11 4.6	20.9
474488 2003 SW_{337}	17.6	X	28.46957	307.61950	59.02081	5.82445	0.1620364	0.22573014	2.6714252	21	12 24.0	20.9
474489 2003 SU_{338}	18.1	X	69.22616	281.06721	51.47775	5.16389	0.1170087	0.22803448	2.6533979	21	12 25.2	21.9
474490 2003 SQ_{366}	17.2	X	27.78736	118.75971	258.85886	1.60842	0.1235465	0.22878344	2.6476038	21	—	—
474491 2003 SM_{369}	17.4	X	188.71037	230.76391	348.77149	11.30188	0.0254596	0.22999267	2.6383154	21	12 15.3	21.2
474492 2003 SC_{402}	17.2	X	47.34570	252.16146	115.81006	11.92720	0.1416734	0.22637404	2.6663570	21	—	—
474493 2003 TR_{4}	17.3	X	329.86327	88.79164	322.98124	5.44940	0.1382422	0.22330125	2.6907620	21	11 10.9	20.3
474494 2003 TP_{55}	16.9	X	124.97325	236.06498	41.70103	15.45599	0.1084685	0.22787626	2.6546259	21	12 13.3	21.1
474495 2003 UH_{4}	17.5	X	5.85424	86.36083	312.44681	11.58518	0.2774132	0.22420012	2.6835652	21	—	—
474496 2003 UX_{9}	16.5	X	17.06934	12.08504	38.84261	12.43764	0.1837545	0.22666849	2.6640474	21	—	—
474497 2003 UU_{32}	17.0	X	129.81577	263.32217	29.86443	12.02655	0.1846232	0.23154578	2.6265044	21	—	—
474498 2003 UJ_{42}	17.0	X	343.06381	26.57104	26.11732	4.96260	0.1946833	0.22362673	2.6881505	21	12 12.8	19.5
474499 2003 UU_{47}	18.3	X	242.90885	42.32162	53.11671	25.04686	0.1498517	0.37780440	1.8950676	21	9 29.3	20.9
474500 2003 UC_{49}	17.1	X	11.81882	347.56921	72.89259	5.71458	0.2591721	0.22673177	2.6635517	21	—	—
474501 2003 UN_{53}	16.4	X	83.45833	348.46405	342.34044	13.83294	0.2667105	0.22950183	2.6420758	21	—	—
474502 2003 UN_{59}	16.9	X	95.59585	353.21799	348.69947	3.46635	0.2203584	0.23338386	2.6126957	21	—	—
474503 2003 UA_{60}	16.8	X	108.58727	65.97654	252.93393	12.05702	0.2694576	0.23337867	2.6127345	21	—	—
474504 2003 UM_{75}	17.3	X	51.45658	128.62646	254.93037	3.63424	0.1145447	0.23104648	2.6302870	21	—	—
474505 2003 UE_{76}	16.7	X	70.88706	334.18945	12.49157	18.12040	0.2166541	0.22934541	2.6432770	21	—	—
474506 2003 UP_{80}	18.4	X	175.99711	306.55688	56.83653	2.73595	0.2028122	0.30343198	2.1932854	21	2 22.5	21.7
474507 2003 UP_{83}	17.1	X	16.02694	41.20949	348.92666	6.24613	0.2103725	0.22493927	2.6776832	21	—	—
474508 2003 UT_{87}	16.7	X	51.72419	90.59255	284.07431	12.41816	0.1730085	0.23106071	2.6301790	21	—	—
474509 2003 UN_{89}	17.4	X	27.07113	149.60081	220.90777	4.50554	0.1892946	0.22606802	2.6687627	21	12 30.9	20.8
474510 2003 UM_{119}	16.9	X	350.76653	170.23910	223.78133	7.64429	0.1837488	0.22219873	2.6996554	21	12 1.3	19.6
474511 2003 UD_{123}	17.3	X	30.65409	114.73077	236.72808	1.19609	0.2203599	0.22274119	2.6952705	21	12 15.9	20.6
474512 2003 UF_{125}	16.9	X	349.93545	308.73223	114.23837	3.66759	0.2019770	0.22489791	2.6780115	21	—	—
474513 2003 UF_{134}	16.9	X	87.73408	122.77172	259.72892	7.90379	0.2630953	0.23556183	2.5965664	21	—	—
474514 2003 UO_{177}	18.2	X	148.43721	16.02548	11.77839	5.14053	0.1309792	0.30184344	2.2009739	21	2 18.8	20.9
474515 2003 UU_{179}	17.0	X	43.88647	219.92232	167.67872	6.06586	0.2277929	0.22878349	2.6476034	21	—	—
474516 2003 UW_{180}	16.8	X	16.22648	154.66101	242.20468	10.88129	0.1847462	0.22567770	2.6718390	21	—	—
474517 2003 UV_{204}	16.8	X	38.05347	329.97332	29.41418	13.97790	0.1755339	0.22594588	2.6697244	21	12 29.8	20.6
474518 2003 UD_{210}	18.0	X	172.87592	320.85214	21.71546	3.87874	0.2616885	0.29979297	2.2109984	21	1 29.5	21.4
474519 2003 US_{230}	17.1	X	33.49323	129.82610	240.04218	6.55580	0.3140268	0.22542502	2.6738352	21	—	—
474520 2003 UA_{231}	17.8	X	61.30136	84.55426	327.00181	2.34995	0.2460001	0.23465723	2.6032353	21	—	—
474521 2003 UZ_{239}	16.6	X	8.88223	44.28174	27.84694	23.23273	0.0860362	0.23038385	2.6353281	21	—	—
474522 2003 UQ_{271}	16.8	X	349.82141	208.93163	214.62480	15.16183	0.1882237	0.22432818	2.6825438	21	—	—
474523 2003 UG_{279}	16.8	X	10.61801	0.65399	51.96334	9.26834	0.2274551	0.22718553	2.6600039	21	—	—
474524 2003 UN_{305}	17.2	X	16.24678	6.26705	316.07739	5.90740	0.0851245	0.21663729	2.7456631	21	9 22.9	20.7
474525 2003 UA_{318}	17.6	X	21.74388	133.58761	208.01067	5.57243	0.1251372	0.22311549	2.6922553	21	11 5.9	20.7
474526 2003 UD_{330}	17.1	X	333.17925	87.33874	317.97323	7.22744	0.1769130	0.22002762	2.7173855	21	11 6.3	19.9
474527 2003 UM_{332}	17.6	X	25.14896	91.37515	311.35186	3.10060	0.2110821	0.23015661	2.6370625	21	—	—
474528 2003 UH_{341}	16.5	X	336.00303	204.87723	245.05491	12.65169	0.1188054	0.23444305	2.6048205	21	—	—
474529 2003 UY_{342}	16.9	X	329.06726	271.06719	195.35427	15.20500	0.1265388	0.22920134	2.6443846	21	—	—
474530 2003 UY_{351}	17.3	X	87.72474	287.37930	66.04753	4.26109	0.1915283	0.23338723	2.6126706	21	—	—
474531 2003 UJ_{365}	17.0	X	89.59589	210.30504	72.86113	9.54234	0.1521872	0.22333232	2.6905124	21	11 20.5	21.1
474532 2003 VG_{1}	18.8	X	341.56930	135.98784	331.25942	8.88151	0.5800694	0.22344885	2.6895769	21	—	—
474533 2003 VU_{4}	18.3	X	171.84623	351.65039	29.09056	3.06518	0.1249884	0.30226651	2.1989196	21	3 6.8	21.4
474534 2003 WF	16.6	X	342.83305	199.57610	229.25266	13.50183	0.1970462	0.22328829	2.6908661	21	—	—
474535 2003 WK_{12}	17.7	X	174.15679	280.29197	235.20478	20.46147	0.0524234	0.37776717	1.8951921	21	9 9.2	20.4
474536 2003 WS_{12}	18.2	X	187.08785	302.21376	49.93336	8.54090	0.3292555	0.30312835	2.1947498	21	2 27.2	22.2
474537 2003 WF_{13}	17.3	X	15.61807	148.89987	253.20303	3.04772	0.2241022	0.22476650	2.6790552	21	—	—
474538 2003 WT_{21}	16.6	X	199.92860	103.09568	241.45613	38.86177	0.2494606	0.30345570	2.1931711	21	2 2.1	21.3
474539 2003 WZ_{26}	16.6	X	54.36359	140.28947	251.99168	13.55623	0.0765427	0.22955082	2.6416999	21	—	—
474540 2003 WU_{34}	17.1	X	51.99884	88.35317	258.89259	6.39361	0.3153334	0.22546533	2.6735165	21	—	—
474541 2003 WY_{60}	17.0	X	326.93124	175.10704	238.43546	14.01997	0.1625353	0.21791026	2.7349597	21	11 7.4	19.8
474542 2003 WA_{68}	16.1	X	258.42866	255.35240	244.48155	24.14291	0.1075663	0.21783663	2.7355760	21	11 18.1	19.8
474543 2003 WF_{69}	16.6	X	68.01660	283.97516	69.35204	14.10889	0.1444973	0.22558385	2.6725800	21	—	—
474544 2003 WC_{88}	18.4	X	141.00808	243.31652	246.12287	18.71740	0.0570628	0.36694246	1.9322830	21	6 19.5	20.5
474545 2003 WK_{109}	18.5	X	132.92522	359.59769	30.24090	6.70656	0.1869471	0.29764775	2.2216091	21	2 12.3	21.3
474546 2003 WP_{115}	18.1	X	175.14704	78.88832	291.83706	4.13780	0.2071960	0.30133285	2.2034594	21	2 28.6	21.5
474547 2003 WY_{122}	17.2	X	302.63363	47.01781	18.40987	4.46409	0.2347953	0.21428089	2.7657553	21	9 28.8	20.0
474548 2003 WJ_{145}	17.6	X	352.57169	183.90156	235.46056	0.78732	0.2169838	0.22258161	2.6965586	21	—	—
474549 2003 WX_{153}	17.8	X	136.12122	62.90640	91.61375	32.57401	0.6023217	0.30460173	2.1876666	21	8 24.7	23.2
474550 2003 WB_{171}	17.0	X	23.43231	213.16768	188.64130	13.37346	0.2492659	0.22575279	2.6712465	21	—	—
474551 2003 XV_{20}	17.8	X	40.33870	45.80049	350.41369	2.09173	0.3073384	0.22752053	2.6573922	21	—	—
474552 2003 YC_{4}	17.0	X	34.16280	300.73787	97.37150	13.84988	0.2639026	0.22668732	2.6638998	21	—	—
474553 2003 YK_{30}	17.2	X	54.36373	343.83372	72.95067	7.71890	0.2630211	0.23097257	2.6308481	21	—	—
474554 2003 YQ_{94}	17.5	X	58.00134	85.75247	272.41064	8.53254	0.6182054	0.22812760	2.6526757	21	—	—
474555 2003 YM_{140}	17.4	X	352.25098	120.44784	307.77263	12.23905	0.3228754	0.22224263	2.6992999	21	—	—
474556 2003 YJ_{147}	16.6	X	1.17594	23.89260	21.35284	10.23515	0.2478357	0.22096919	2.7096606	21	—	—
474557 2003 YF_{160}	16.6	X	273.66787	14.71757	67.41885	10.57385	0.1914520	0.20979986	2.8049982	21	9 17.1	20.5
474558 2004 AZ_{2}	16.7	X	7.76970	6.21754	110.73106	14.85846	0.1918332	0.22626507	2.6672131	21	—	—
474559 2004 AK_{18}	17.5	X	295.12300	279.90253	148.09836	3.19919	0.1650475	0.20977951	2.8051796	21	9 29.5	20.8
474560 2004 BT_{1}	15.2	X	192.76638	211.43904	240.65169	14.57592	0.4939242	0.14053433	3.6639350	21	6 27.1	22.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
474561 2004 BU_{35}	16.6	X	320.36483	128.99015	318.27224	11.97454	0.1075511	0.21481242	2.7611910	21	12 12.9	20.0
474562 2004 BK_{39}	17.0	X	307.71793	318.48257	146.19795	7.43820	0.2949969	0.21642942	2.7474208	21	11 30.9	19.3
474563 2004 BK_{92}	17.8	X	214.80655	182.47937	292.11072	17.27988	0.0968123	0.37094626	1.9183539	21	8 27.8	20.3
474564 2004 BO_{107}	17.0	X	289.78467	114.06168	13.20658	7.43877	0.2257831	0.21467622	2.7623588	21	11 29.6	20.1
474565 2004 CJ_{25}	17.1	X	267.87485	128.27696	327.75078	7.49335	0.0686244	0.20692038	2.8309609	21	10 6.3	21.0
474566 2004 CC_{31}	17.0	X	344.86365	122.46910	296.95225	5.22221	0.1047569	0.21483761	2.7609752	21	12 16.3	20.2
474567 2004 CY_{56}	18.1	X	237.97014	111.15602	4.90940	19.70340	0.1148472	0.37350963	1.9095668	21	10 7.2	19.8
474568 2004 CJ_{119}	17.4	X	319.37256	122.36137	325.86303	7.00900	0.1966612	0.21499077	2.7596638	21	12 9.8	20.2
474569 2004 EB_{10}	18.0	X	358.85435	189.98821	332.38860	3.68249	0.1464981	0.28359751	2.2943928	21	—	—
474570 2004 EB_{32}	16.5	X	293.19689	187.94069	14.98171	24.79705	0.1604268	0.27498139	2.3420735	21	—	—
474571 2004 EP_{40}	17.7	X	271.60561	221.92386	350.90107	10.47013	0.1986108	0.27472375	2.3435375	21	—	—
474572 2004 EW_{72}	18.1	X	359.69963	164.90465	352.96567	6.94328	0.1519490	0.28314760	2.2968226	21	—	—
474573 2004 ER_{81}	16.9	X	252.68361	158.30923	109.80138	5.41906	0.1700641	0.27893040	2.3199154	21	1 4.5	20.6
474574 2004 FG_{1}	19.4	X	141.58687	21.76795	187.36401	24.18220	0.2852181	0.42531381	1.7511757	21	10 31.4	22.3
474575 2004 FF_{18}	17.0	X	353.99598	66.90466	181.71802	23.93854	0.4571244	0.17295477	3.1904188	21	3 28.5	19.0
474576 2004 FU_{78}	16.9	X	258.73370	285.58938	182.63443	5.71467	0.0924043	0.20149587	2.8815442	21	10 9.7	20.8
474577 2004 FM_{91}	17.3	X	223.68901	147.80973	99.04587	8.74690	0.1857282	0.26954334	2.3734694	21	—	—
474578 2004 FP_{111}	18.1	X	198.64359	213.06188	21.79334	2.37032	0.1504935	0.26560901	2.3968500	21	—	—
474579 2004 FA_{116}	16.7	X	286.65941	120.86741	30.72108	17.35727	0.1873771	0.21265620	2.7798243	21	—	—
474580 2004 FL_{117}	16.5	X	99.81444	190.95995	23.17172	15.39080	0.2045835	0.19059442	2.9903998	21	9 14.6	21.3
474581 2004 FG_{132}	18.0	X	348.91865	343.12834	183.82355	6.02722	0.1043328	0.28209830	2.3025146	21	—	—
474582 2004 FP_{141}	16.1	X	102.48132	331.53924	194.87302	16.83466	0.1797368	0.18392783	3.0622296	21	7 8.6	21.0
474583 2004 GC_{18}	16.3	X	347.54641	94.95570	161.62095	17.92022	0.3549238	0.17393853	3.1783778	21	4 14.7	19.4
474584 2004 GM_{31}	16.4	X	12.37676	208.50422	40.64445	6.43665	0.1930881	0.17828383	3.1265214	21	6 12.2	19.7
474585 2004 HC_{2}	19.5	X	224.27564	303.15075	190.33379	55.02870	0.3113955	0.60334005	1.3870580	21	10 16.5	19.6
474586 2004 HL_{8}	17.6	X	257.98090	33.34813	189.52363	9.54642	0.1601149	0.27143371	2.3624368	21	—	—
474587 2004 HD_{25}	16.4	X	50.37422	172.49513	38.83661	13.87243	0.1406729	0.17978117	3.1091374	21	6 24.3	20.5
474588 2004 LX_{20}	16.4	X	0.16843	177.08010	121.05963	12.31920	0.1306464	0.17966684	3.1104562	21	7 26.6	19.8
474589 2004 LZ_{29}	18.2	X	273.78553	44.36936	254.57777	3.72288	0.1485742	0.33463211	2.0547436	21	2 24.7	21.1
474590 2004 NA_{14}	16.5	X	347.41953	202.97817	125.39573	16.57154	0.2710395	0.17510946	3.1641930	21	8 10.5	19.2
474591 2004 NN_{29}	15.9	X	356.62606	28.22237	280.15602	12.24315	0.1897636	0.17452776	3.1712200	21	7 31.3	19.4
474592 2004 PG_{30}	17.3	X	148.58565	333.35796	333.01665	4.55556	0.2252762	0.25462422	2.4652989	21	—	—
474593 2004 PU_{62}	16.5	X	316.35469	35.05296	342.80876	7.61190	0.3314769	0.17200740	3.2021226	21	7 30.1	19.9
474594 2004 PE_{84}	15.3	X	11.95025	303.02917	344.70459	33.66808	0.1718847	0.17038669	3.2223963	21	8 18.5	19.3
474595 2004 PH_{93}	16.5	X	321.11609	89.29648	293.98434	10.61096	0.3604453	0.17131295	3.2107704	21	8 7.5	19.6
474596 2004 RS_{40}	17.2	X	73.94435	275.27638	39.94586	14.61480	0.2889933	0.24326673	2.5414461	21	12 28.3	21.6
474597 2004 RW_{40}	17.7	X	101.57312	193.31971	170.98422	7.89544	0.1590367	0.25286644	2.4767105	21	—	—
474598 2004 RL_{42}	17.2	X	153.69036	167.79080	169.94572	15.01120	0.1606781	0.25744177	2.4472784	21	—	—
474599 2004 RY_{49}	18.4	X	62.26903	178.33644	168.70260	14.41588	0.2773614	0.24445601	2.5331967	21	—	—
474600 2004 RG_{110}	15.2	X	317.34784	107.73237	259.15094	20.04989	0.2011941	0.17132765	3.2105868	21	7 27.9	19.3
474601 2004 RS_{149}	17.7	X	40.81985	44.22558	325.12315	7.58598	0.2753718	0.24371925	2.5382993	21	—	—
474602 2004 RH_{158}	18.2	X	62.50270	151.63582	204.79535	7.01511	0.2587740	0.24515521	2.5283777	21	—	—
474603 2004 RL_{232}	17.7	X	46.49590	349.57387	9.78736	5.79222	0.1934872	0.24091334	2.5579702	21	—	—
474604 2004 RR_{236}	18.0	X	52.99276	153.77998	206.36513	3.49584	0.2116232	0.24394422	2.5367385	21	—	—
474605 2004 RD_{237}	15.9	X	19.78341	306.00975	346.21863	16.30804	0.1335260	0.17082985	3.2168208	21	8 24.9	19.8
474606 2004 RR_{242}	15.9	X	118.31821	239.59122	359.53737	8.88184	0.0672005	0.17808371	3.1288633	21	10 12.0	20.7
474607 2004 RG_{245}	18.1	X	61.58407	22.95749	38.24381	1.98316	0.2231592	0.25226874	2.4806210	21	—	—
474608 2004 RE_{327}	17.3	X	42.03689	162.56504	211.10890	6.92516	0.1455017	0.24375677	2.5380388	21	—	—
474609 2004 SY_{43}	17.9	X	66.93740	359.72057	332.76809	3.89785	0.3325778	0.24338210	2.5406429	21	—	—
474610 2004 SX_{49}	16.1	X	14.33816	279.57433	338.96270	25.16402	0.2763845	0.17111508	3.2132452	21	7 17.2	19.6
474611 2004 SB_{56}	19.2	X	129.36824	233.54527	302.05273	18.69363	0.2377075	1.22345303	0.8657872	21	—	—
474612 2004 TX_{18}	18.5	X	359.74562	152.43102	221.16199	19.01057	0.0659047	0.41043942	1.7932328	21	12 20.2	20.2
474613 2004 TL_{19}	20.9	X	56.58733	195.14905	209.57184	12.53412	0.5303294	0.24536356	2.5269463	21	—	—
474614 2004 TZ_{27}	17.1	X	154.94666	231.62122	14.92997	16.86467	0.0893442	0.24177562	2.5518847	21	12 6.2	21.2
474615 2004 TX_{42}	17.5	X	74.55426	100.94051	213.10766	15.87123	0.1944653	0.23912462	2.5707106	21	12 17.8	21.7
474616 2004 TV_{44}	17.2	X	64.72902	1.67906	22.75803	11.81394	0.1353972	0.24554376	2.5257098	21	—	—
474617 2004 TY_{57}	17.0	X	62.75890	346.20649	11.10789	15.57583	0.1377370	0.24371548	2.5383254	21	—	—
474618 2004 TT_{78}	17.6	X	30.88119	271.89625	201.33409	5.86226	0.0955807	0.25473538	2.4645816	21	—	—
474619 2004 TD_{98}	18.3	X	43.65513	195.41376	191.12527	5.10147	0.2623232	0.24289748	2.5440211	21	—	—
474620 2004 TH_{149}	17.4	X	14.55834	133.67836	264.48541	1.62829	0.2284698	0.23973768	2.5663261	21	—	—
474621 2004 TG_{159}	18.9	X	62.47472	349.53399	23.60582	12.28104	0.3243400	0.24427925	2.5344185	21	—	—
474622 2004 TL_{163}	17.2	X	86.75824	263.87330	40.38696	12.19083	0.2955481	0.24095479	2.5576768	21	12 25.4	21.7
474623 2004 TF_{177}	16.2	X	114.13749	219.96825	22.55826	10.94648	0.0265707	0.17333131	3.1857965	21	10 9.7	20.8
474624 2004 TL_{188}	16.1	X	156.57539	164.12210	13.07615	9.99579	0.0740452	0.16865345	3.2444361	21	9 12.1	21.1
474625 2004 TU_{196}	18.2	X	11.32953	207.99349	238.11724	1.20344	0.2147475	0.24431520	2.5341699	21	—	—
474626 2004 TR_{220}	18.0	X	100.18974	285.89681	32.85596	11.88838	0.2036813	0.24376721	2.5379663	21	—	—
474627 2004 TN_{230}	17.5	X	33.57048	174.96020	189.82559	4.75249	0.1187884	0.23890203	2.5723071	21	12 24.9	20.8
474628 2004 TX_{232}	17.9	X	49.58765	325.77185	24.04566	4.81820	0.2403472	0.24000034	2.5644534	21	—	—
474629 2004 TQ_{265}	19.5	X	58.42062	171.46549	208.09251	7.46121	0.3251972	0.24432483	2.5341033	21	—	—
474630 2004 TF_{269}	18.4	X	23.18232	199.58474	199.99906	4.30806	0.2563871	0.24026439	2.5625742	21	—	—
474631 2004 TG_{336}	17.1	X	339.51872	238.34771	220.37855	14.92571	0.0936100	0.24032328	2.5621555	21	—	—
474632 2004 TO_{342}	17.4	X	43.29734	164.67985	218.52401	6.57347	0.1961637	0.24114885	2.5563045	21	—	—
474633 2004 UT	16.0	X	285.37224	259.85996	126.36581	9.89022	0.3185366	0.16311723	3.3174380	21	6 25.4	20.8
474634 2004 UY	17.2	X	349.91763	232.86469	218.62610	30.54142	0.3737045	0.23867762	2.5739192	21	—	—
474635 2004 VN_{29}	18.1	X	351.24166	5.84163	62.69718	5.15452	0.2260045	0.23750533	2.5823820	21	—	—
474636 2004 VE_{63}	17.8	X	12.20754	141.15828	266.45290	3.16708	0.2570817	0.23901210	2.5715173	21	—	—
474637 2004 VG_{74}	17.8	X	18.65898	270.47688	145.48426	3.32711	0.2438026	0.24036317	2.5618721	21	—	—
474638 2004 VD_{75}	16.9	X	55.05651	302.00206	59.34081	15.18377	0.2879438	0.24155971	2.5534051	21	—	—
474639 2004 VH_{80}	17.3	X	51.81693	319.15258	80.78266	3.70430	0.0722351	0.24419626	2.5349927	21	—	—
474640 2004 VN_{112}	6.5	X	0.69776	326.74053	66.00545	25.55722	0.8599783	0.00015880	337.7268834	21	11 16.6	23.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
474641 2004 WL_8	17.2	X	16.65841	324.85778	63.52420	10.72483	0.2069715	0.23673346	2.5879921	21	—	—
474642 2004 XN_3	17.6	X	50.96404	1.60966	45.29289	2.96493	0.1594299	0.24363276	2.5389000	21	—	—
474643 2004 XX_{15}	18.0	X	3.32769	138.24052	267.14864	2.78280	0.2144598	0.23508564	2.6000716	21	—	—
474644 2004 XF_{21}	17.4	X	31.50889	345.41702	78.26255	14.26037	0.2403455	0.24216830	2.5491253	21	—	—
474645 2004 XS_{32}	17.0	X	83.15668	145.17853	245.20689	4.21492	0.2037644	0.24649968	2.5191758	21	—	—
474646 2004 XZ_{58}	16.7	X	281.57290	190.64507	294.59603	12.80633	0.1940387	0.22846753	2.6500438	21	11 19.9	20.0
474647 2004 XA_{59}	17.2	X	40.98397	101.95433	301.52436	8.33153	0.2075347	0.23871836	2.5736264	21	—	—
474648 2004 XW_{66}	17.6	X	305.41408	12.40673	79.73348	3.93631	0.0965917	0.23019750	2.6367501	21	11 29.6	20.6
474649 2004 XK_{93}	16.5	X	117.31509	43.08236	282.00622	8.66494	0.0638280	0.23801633	2.5786845	21	—	—
474650 2004 XK_{103}	16.5	X	13.05545	51.88452	73.67998	31.19575	0.2571368	0.24283831	2.5444343	21	—	—
474651 2004 XT_{108}	17.4	X	48.05846	351.24212	75.76045	6.46523	0.2698918	0.24363393	2.5388918	21	—	—
474652 2004 XO_{109}	16.9	X	330.73324	206.15876	254.18348	12.18846	0.1831595	0.23828010	2.5767811	21	—	—
474653 2004 XC_{119}	16.6	X	39.76927	128.20123	284.72796	7.76726	0.1568528	0.23903021	2.5713875	21	—	—
474654 2004 XF_{119}	17.5	X	10.09565	8.14572	54.86551	1.19576	0.1890429	0.23574630	2.5952117	21	—	—
474655 2004 XF_{133}	16.5	X	39.33246	346.56920	55.43731	8.78065	0.1908437	0.24045304	2.5612337	21	—	—
474656 2004 XS_{147}	17.4	X	56.67460	125.90481	288.56812	5.66181	0.2884797	0.24195328	2.5506354	21	—	—
474657 2004 YB_{13}	16.8	X	72.21487	66.81245	288.48100	13.88720	0.3011024	0.23760221	2.5816799	21	—	—
474658 2004 YG_{17}	17.1	X	61.01266	99.66222	297.97438	1.84737	0.2142836	0.24032788	2.5621228	21	—	—
474659 2004 YN_{25}	17.5	X	336.05120	213.08085	281.71701	3.83598	0.1742332	0.23706011	2.5856142	21	—	—
474660 2005 AT_1	16.3	X	337.64205	138.89100	297.35806	12.27319	0.2255403	0.23087656	2.6315775	21	—	—
474661 2005 AN_3	17.6	X	48.84881	293.27818	118.44439	6.75800	0.3002213	0.24208309	2.5497234	21	—	—
474662 2005 AL_4	17.7	X	28.11656	46.66404	15.00497	4.67350	0.2456129	0.23920415	2.5701407	21	—	—
474663 2005 AG_6	16.8	X	38.07039	348.02689	73.71682	5.82063	0.2454498	0.23995418	2.5647823	21	—	—
474664 2005 AC_{17}	16.9	X	55.40464	287.03748	124.57265	7.78137	0.1871876	0.24143789	2.5542639	21	—	—
474665 2005 AP_{21}	17.4	X	353.85007	38.07254	49.68961	3.83971	0.2596497	0.23549757	2.5970388	21	—	—
474666 2005 AE_{27}	16.5	X	32.43569	96.64077	303.40240	27.42933	0.2455273	0.23566643	2.5957980	21	—	—
474667 2005 AK_{42}	16.8	X	36.60395	1.03844	55.91411	9.19830	0.3172997	0.24023063	2.5628142	21	—	—
474668 2005 AO_{65}	17.3	X	55.63087	262.62156	126.89577	5.65498	0.3301501	0.23975443	2.5662066	21	—	—
474669 2005 AY_{77}	16.7	X	350.97448	100.51145	323.90287	15.26104	0.1448968	0.22940698	2.6428040	21	—	—
474670 2005 BP_9	16.5	X	53.58919	25.66668	20.60279	4.87008	0.2720944	0.23984396	2.5655680	21	—	—
474671 2005 BA_{14}	18.5	X	142.26875	230.00927	304.49221	17.96731	0.0467058	0.38974762	1.8561528	21	8 26.9	20.6
474672 2005 BQ_{14}	17.3	X	311.35686	183.48574	281.33425	10.79541	0.1406541	0.23003500	2.6379918	21	12 25.1	19.9
474673 2005 CF	17.0	X	352.51805	271.99031	208.23753	5.63140	0.2710614	0.23710509	2.5852872	21	—	—
474674 2005 CZ_6	19.1	X	31.59507	104.68179	326.93625	26.64543	0.4913892	0.24157421	2.5533029	21	—	—
474675 2005 CK_{22}	16.8	X	7.17258	100.21946	339.31728	11.76323	0.2756943	0.23648073	2.5898357	21	—	—
474676 2005 CL_{64}	16.9	X	252.88383	179.26868	333.80871	13.57854	0.1858960	0.22406853	2.6846158	21	11 12.1	20.8
474677 2005 EJ_{12}	16.7	X	290.92551	143.55886	7.49966	8.36921	0.1595314	0.22885436	2.6470568	21	—	—
474678 2005 ED_{31}	17.2	X	297.55101	107.77038	24.93175	4.47122	0.2664284	0.22736336	2.6586167	21	12 24.4	19.3
474679 2005 EX_{37}	16.3	X	249.46004	165.85258	334.22360	8.12734	0.1325272	0.21899493	2.7259215	21	10 30.9	20.2
474680 2005 EK_{62}	16.9	X	268.24035	137.27429	340.22640	7.20047	0.0313086	0.21981598	2.7191294	21	11 11.3	20.7
474681 2005 EY_{72}	16.7	X	293.08338	10.85216	131.62923	12.71775	0.1185017	0.22808440	2.6530106	21	—	—
474682 2005 EK_{73}	18.0	X	354.62841	307.55947	160.71048	4.99716	0.2409188	0.23676800	2.5877405	21	—	—
474683 2005 EB_{86}	17.2	X	3.92563	357.26699	131.07121	5.50351	0.2791426	0.23811322	2.5779849	21	—	—
474684 2005 EZ_{90}	18.7	X	229.60363	86.54959	340.79071	19.35145	0.0923004	0.38662493	1.8661340	21	7 23.4	21.0
474685 2005 ED_{94}	16.5	X	342.14094	114.49260	45.67671	30.75679	0.3197988	0.23558379	2.5964050	21	—	—
474686 2005 EJ_{114}	18.1	X	122.86060	232.08833	164.02726	6.42750	0.0546206	0.30072071	2.2064486	21	1 12.5	20.7
474687 2005 EL_{118}	16.6	X	334.68041	281.67989	180.45555	28.18649	0.3458404	0.23210926	2.6222519	21	—	—
474688 2005 ER_{141}	16.8	X	338.58840	294.81211	164.59023	7.28227	0.1613190	0.23147152	2.6270662	21	—	—
474689 2005 EL_{208}	18.7	X	219.81823	58.68402	184.32290	1.84361	0.1700866	0.28782471	2.2718727	21	—	—
474690 2005 EU_{212}	17.5	X	348.25758	82.87148	1.22238	5.00954	0.3216489	0.23064308	2.6333531	21	—	—
474691 2005 EL_{214}	17.3	X	335.38397	120.59846	21.93112	6.20551	0.2572184	0.23525061	2.5988560	21	—	—
474692 2005 EW_{240}	17.0	X	5.19313	354.03391	125.89856	7.78437	0.2417406	0.23831195	2.5765516	21	—	—
474693 2005 ED_{244}	16.9	X	73.41455	171.95682	178.26037	13.98773	0.0874764	0.22321201	2.6914791	21	—	—
474694 2005 EG_{294}	16.6	X	309.93055	135.43120	354.78103	15.23273	0.1985117	0.23015702	2.6370593	21	—	—
474695 2005 EQ_{294}	17.1	X	85.59859	74.63273	207.64688	3.72752	0.0331732	0.21076231	2.7964523	21	10 29.7	21.0
474696 2005 EC_{316}	17.3	X	20.93029	341.28437	61.18856	3.22763	0.1458039	0.22414753	2.6839849	21	—	—
474697 2005 ET_{330}	16.6	X	290.67657	181.99655	341.93471	12.82422	0.0948575	0.22785693	2.6547760	21	—	—
474698 2005 GT_1	16.9	X	323.77159	68.83569	26.41029	14.00567	0.0929274	0.22119853	2.7077874	21	12 31.9	20.4
474699 2005 GV_{34}	16.2	X	28.48738	87.87157	143.15097	13.57835	0.4117304	0.18770766	3.0209814	21	7 26.1	18.7
474700 2005 GD_{41}	16.6	X	205.94502	37.26445	160.13447	15.73619	0.2235378	0.21562319	2.7542651	21	11 20.6	21.4
474701 2005 GW_{79}	18.2	X	19.58465	81.04177	197.49177	21.48758	0.0755924	0.37945423	1.8895706	21	8 1.9	20.4
474702 2005 GA_{87}	16.9	X	187.88153	178.30086	31.54219	7.34222	0.1206334	0.21412505	2.7670971	21	11 21.5	21.3
474703 2005 GW_{100}	18.0	X	16.25225	330.93925	194.72407	5.24397	0.1035211	0.30121609	2.2040288	21	1 25.4	20.2
474704 2005 GU_{111}	17.6	X	118.33096	198.84734	40.13405	22.83768	0.0706294	0.38871224	1.8594474	21	11 9.3	19.6
474705 2005 GG_{117}	17.0	X	280.05883	144.10267	21.58496	13.26814	0.1315942	0.22391065	2.6858776	21	—	—
474706 2005 GC_{141}	19.5	X	324.09094	40.56707	185.95564	28.27917	0.1989845	0.54200681	1.4898169	21	—	—
474707 2005 GJ_{150}	16.8	X	138.21320	195.24818	68.01652	9.15042	0.1779349	0.21145270	2.7903621	21	12 9.1	21.5
474708 2005 GV_{156}	17.0	X	220.61179	153.47165	40.63171	10.74770	0.1483528	0.21739491	2.7392802	21	12 3.3	21.1
474709 2005 GF_{170}	15.0	X	28.25032	342.69293	215.76573	13.16280	0.1932834	0.12500382	3.9614470	21	5 11.6	19.6
474710 2005 GF_{178}	18.0	X	294.15006	127.85565	98.48756	4.29753	0.0557360	0.29511022	2.2343260	21	1 1.1	20.7
474711 2005 GC_{216}	17.1	X	30.63186	342.20634	33.47533	5.92049	0.0073347	0.21825569	2.7320732	21	12 14.1	20.8
474712 2005 GA_{221}	17.0	X	302.97289	298.13617	218.94180	11.15907	0.1429281	0.22747676	2.6577330	21	—	—
474713 2005 GC_{223}	17.2	X	305.51790	269.66915	178.61397	3.83219	0.0677481	0.21439317	2.7647896	21	11 23.8	20.6
474714 2005 HY	18.0	X	218.49514	219.65166	40.07902	3.00056	0.2109803	0.28539549	2.2847463	21	—	—
474715 2005 JK_{11}	17.3	X	5.78841	309.82271	54.96371	0.67405	0.0844491	0.20893874	2.8126999	21	11 4.2	20.6
474716 2005 JS_{34}	18.2	X	193.38969	135.05180	140.77288	5.38297	0.2128839	0.28102410	2.3083784	21	—	—
474717 2005 JA_{55}	18.1	X	48.37636	33.44580	116.66433	6.35519	0.1317909	0.30139272	2.2031677	21	3 9.8	19.8
474718 2005 JQ_{98}	18.0	X	68.69392	8.38679	222.60315	20.34515	0.0538179	0.37668688	1.8988138	21	8 3.6	20.5
474719 2005 JM_{119}	17.8	X	263.66940	38.42578	198.91587	6.08318	0.1120068	0.28895161	2.2659621	21	—	—
474720 2005 JO_{177}	16.6	X	147.48772	4.69644	223.46243	8.26954	0.1254975	0.20920895	2.8102775	21	11 5.4	21.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
474721 2005 KJ_1	18.2	X	203.32673	93.40284	205.56782	9.59549	0.1949979	0.28633806	2.2797296	21	—	—
474722 2005 LW_{41}	17.7	X	165.13067	76.03023	249.43694	4.59648	0.2571812	0.28113168	2.3077895	21	1 2.5	21.3
474723 2005 LM_{44}	17.6	X	202.17913	191.49976	97.40241	10.71301	0.1925387	0.28482410	2.2878009	21	—	—
474724 2005 LM_{48}	18.2	X	162.08474	55.86774	280.25539	5.98437	0.3093573	0.27802338	2.3249583	21	1 17.7	21.9
474725 2005 MP_{21}	16.4	X	353.71693	215.03664	126.39337	13.68046	0.1514008	0.18803892	3.0174324	21	9 18.8	19.9
474726 2005 MM_{28}	15.9	X	49.39643	16.81026	277.45479	12.41934	0.1440763	0.19250755	2.9705546	21	10 6.0	20.1
474727 2005 MG_{29}	16.2	X	320.62004	75.41845	268.25940	9.61605	0.0265573	0.18365851	3.0652226	21	7 27.9	20.4
474728 2005 MJ_{33}	16.5	X	66.81646	345.51226	287.31505	14.50076	0.1111948	0.19280765	2.9674714	21	9 24.6	20.9
474729 2005 ML_{33}	16.3	X	8.34030	179.21326	132.93612	11.78726	0.1171688	0.18789258	3.0189989	21	8 31.2	19.9
474730 2005 MA_{34}	17.4	X	137.94073	0.55829	299.35986	6.13185	0.2450997	0.27041509	2.3683657	21	—	—
474731 2005 ML_{40}	17.7	X	150.03644	203.73353	141.21343	6.35334	0.2546012	0.27719167	2.3296067	21	1 12.8	21.1
474732 2005 NT_1	16.1	X	44.13557	224.69148	114.49077	16.12018	0.1529195	0.20329476	2.8645205	21	12 6.9	20.2
474733 2005 NH_{17}	18.4	X	127.96319	209.84279	128.71662	3.10077	0.2216329	0.27265900	2.3553539	21	—	—
474734 2005 NZ_{17}	16.6	X	61.56021	345.81202	290.86026	4.86922	0.1870579	0.19306966	2.9647861	21	10 9.7	20.8
474735 2005 NU_{25}	16.1	X	56.17525	315.17528	289.96004	11.42533	0.1148850	0.18538544	3.0461572	21	8 10.9	20.2
474736 2005 NT_{28}	18.2	X	161.81244	152.91789	153.60791	6.51691	0.2341209	0.27477227	2.3432616	21	—	—
474737 2005 NF_{30}	18.0	X	135.61743	38.80762	316.54319	1.62238	0.2308556	0.27617475	2.3353218	21	1 8.3	20.9
474738 2005 NE_{35}	16.9	X	300.11023	258.64885	96.37377	2.97307	0.1888086	0.18117514	3.0931690	21	6 23.7	21.0
474739 2005 NK_{54}	18.4	X	131.03455	123.94613	241.63141	2.14796	0.2199322	0.27626647	2.3348049	21	1 14.1	21.4
474740 2005 NG_{71}	18.3	X	174.92534	7.32306	310.27901	4.83131	0.1937357	0.27762917	2.3271586	21	—	—
474741 2005 NB_{78}	16.9	X	318.15701	225.92236	132.67804	4.26582	0.2431834	0.18322094	3.0701009	21	7 19.7	20.2
474742 2005 NM_{107}	17.6	X	296.22048	249.35240	153.46058	1.49989	0.1932948	0.18806139	3.0171921	21	8 20.1	21.4
474743 2005 ON_8	18.2	X	155.41830	163.83874	146.41503	9.64285	0.2441755	0.27418388	2.3466128	21	—	—
474744 2005 OU_{12}	15.6	X	335.79149	232.98524	139.52031	16.57860	0.1738120	0.18588818	3.0406624	21	9 26.7	19.1
474745 2005 OR_{17}	18.0	X	118.28821	123.45866	223.23013	4.02565	0.2519909	0.27040418	2.3684294	21	—	—
474746 2005 OC_{23}	18.5	X	211.63821	12.45816	249.62298	4.01944	0.2093406	0.27840194	2.3228503	21	—	—
474747 2005 OW_{28}	16.7	X	26.49997	309.24040	355.03435	12.79085	0.2965885	0.18955310	3.0013417	21	10 10.7	20.1
474748 2005 PB_4	17.5	X	166.52477	337.28330	328.79128	3.37134	0.3366826	0.27570027	2.3380004	21	—	—
474749 2005 PN_9	18.0	X	157.20307	182.62957	119.86217	2.10928	0.1795259	0.27248680	2.3563461	21	—	—
474750 2005 PV_{28}	16.5	X	328.92480	39.58570	323.22584	9.52704	0.0815064	0.18384935	3.0631010	21	8 30.8	20.4
474751 2005 QE_{12}	16.1	X	282.25682	50.45454	321.41013	16.15796	0.1603271	0.17806305	3.1291053	21	6 27.9	20.7
474752 2005 QV_{23}	17.7	X	99.42953	300.83032	32.69607	1.86635	0.2011596	0.26399066	2.4066356	21	—	—
474753 2005 QM_{25}	16.5	X	3.27383	268.01462	6.46266	13.42160	0.3011915	0.17936234	3.1139756	21	7 3.8	19.3
474754 2005 QC_{33}	17.9	X	156.50341	345.59950	329.13321	4.68123	0.2208067	0.27358619	2.3500293	21	—	—
474755 2005 QO_{34}	18.3	X	189.08930	135.66647	160.95161	3.37357	0.2337670	0.27669823	2.3323755	21	—	—
474756 2005 QR_{36}	16.6	X	336.62376	212.07048	178.00194	8.10438	0.4102892	0.18443693	3.0565919	21	10 10.0	17.9
474757 2005 QD_{44}	18.2	X	103.47334	230.07415	143.01051	1.73524	0.1988594	0.27037209	2.3686169	21	—	—
474758 2005 QU_{48}	18.0	X	132.07302	218.77831	107.31780	3.53996	0.1984996	0.26938297	2.3744113	21	—	—
474759 2005 QK_{50}	16.0	X	339.83812	6.45298	6.46784	12.59468	0.1345953	0.18527444	3.0473736	21	9 30.9	19.5
474760 2005 QR_{54}	16.2	X	3.85858	178.43324	158.93361	5.18965	0.2114760	0.18637832	3.0353291	21	10 3.8	19.2
474761 2005 QU_{57}	15.8	X	338.51988	3.26637	345.16614	20.91858	0.1911456	0.18275987	3.0752623	21	8 27.1	19.0
474762 2005 QQ_{66}	17.3	X	195.96774	336.30586	13.69468	6.03144	0.1877655	0.28275400	2.2989536	21	2 25.9	20.9
474763 2005 QQ_{75}	17.1	X	129.10125	9.36142	2.07213	6.68961	0.4373902	0.27391456	2.3481507	21	2 17.8	20.8
474764 2005 QS_{81}	17.9	X	146.11680	286.46973	37.28386	1.72496	0.2049792	0.27255177	2.3559716	21	—	—
474765 2005 QT_{83}	16.3	X	352.07733	175.02057	177.31400	25.29394	0.2777404	0.18447873	3.0561301	21	10 2.2	18.9
474766 2005 QS_{91}	18.1	X	153.82040	77.14717	259.45612	1.41834	0.2347971	0.27424854	2.3462439	21	1 4.7	21.6
474767 2005 QB_{94}	17.9	X	124.47858	317.44125	32.20832	2.68581	0.2161046	0.27024983	2.3693311	21	—	—
474768 2005 QD_{107}	16.4	X	331.06925	19.38071	7.45727	14.05662	0.2928390	0.18496991	3.0507175	21	9 24.9	18.7
474769 2005 QK_{109}	16.1	X	267.08800	243.82453	172.16242	16.52665	0.2290403	0.17760511	3.1344818	21	7 21.9	21.0
474770 2005 QE_{111}	17.2	X	47.16817	32.81588	350.07868	6.59124	0.1330170	0.26149624	2.4219160	21	—	—
474771 2005 QE_{117}	18.0	X	131.90551	205.07521	140.67536	1.82841	0.2007766	0.27215551	2.3582579	21	—	—
474772 2005 QZ_{118}	16.7	X	267.00819	252.20962	150.61452	4.07634	0.1835615	0.17810629	3.1285989	21	7 12.9	21.4
474773 2005 QP_{119}	17.2	X	340.11016	215.83439	135.37054	1.75904	0.1540520	0.18432618	3.0578161	21	9 1.4	20.6
474774 2005 QN_{122}	17.0	X	342.36242	90.18034	270.40101	0.65193	0.2134123	0.18504788	3.0498605	21	9 17.1	19.9
474775 2005 QK_{123}	16.4	X	317.60994	43.42897	344.03219	9.11032	0.0288815	0.18589977	3.0405360	21	9 19.6	20.6
474776 2005 QQ_{123}	17.1	X	293.22483	129.51624	248.96093	0.25631	0.1824533	0.17877820	3.1207550	21	7 15.7	21.0
474777 2005 QL_{126}	17.0	X	346.67886	341.66743	33.61120	1.01884	0.0641541	0.18884242	3.0088671	21	10 15.7	20.7
474778 2005 QN_{128}	16.2	X	222.19574	322.27168	149.36207	9.76950	0.0583280	0.18248428	3.0783577	21	9 2.7	20.8
474779 2005 QK_{131}	17.6	X	331.25336	197.90590	14.57146	6.73114	0.0289270	0.28362414	2.2942492	21	2 10.5	20.3
474780 2005 QN_{132}	16.1	X	353.45237	335.31375	1.55293	10.30554	0.2370767	0.18461418	3.0546351	21	9 11.0	18.9
474781 2005 QS_{133}	16.6	X	354.87881	206.49263	147.24953	0.49765	0.1691547	0.18565528	3.0432048	21	10 3.9	19.7
474782 2005 QQ_{136}	18.0	X	85.52739	321.64081	89.63477	2.39036	0.1857135	0.27102107	2.3648341	21	1 2.8	20.0
474783 2005 QR_{138}	17.4	X	306.05322	275.31456	105.64997	2.15508	0.1819913	0.18000528	3.1065562	21	8 8.2	21.1
474784 2005 QW_{139}	17.0	X	331.38922	270.50417	74.73302	1.86403	0.1722675	0.18064213	3.0992506	21	8 5.9	20.3
474785 2005 QX_{139}	16.6	X	268.98911	41.39537	5.01424	6.03493	0.1378343	0.17768729	3.1335152	21	7 28.5	21.1
474786 2005 QJ_{141}	16.0	X	340.29877	138.18904	230.42495	16.59283	0.3215390	0.18450324	3.0558595	21	9 12.6	18.8
474787 2005 QK_{147}	15.8	X	290.95549	25.98758	352.00204	18.75513	0.2613779	0.17937407	3.1138399	21	7 2.7	20.4
474788 2005 QE_{151}	16.3	X	310.31387	352.65323	2.43552	9.42050	0.1687973	0.17771763	3.1331586	21	7 14.9	20.4
474789 2005 QH_{159}	15.5	X	292.58966	328.83217	12.00951	15.03420	0.2828586	0.17510095	3.1642956	21	5 7.7	20.2
474790 2005 QV_{167}	17.6	X	266.29550	145.73643	176.24615	22.79888	0.0785386	0.35510494	1.9749900	21	3 28.3	19.7
474791 2005 QF_{179}	18.6	X	156.93244	246.51767	84.89982	2.39242	0.2048223	0.27396025	2.3478897	21	—	—
474792 2005 QV_{186}	16.6	X	343.10871	193.54111	168.31022	13.76540	0.2526774	0.18410676	3.0602452	21	9 21.3	19.3
474793 2005 QD_{187}	17.9	X	43.36905	15.27842	24.12087	2.70455	0.2170639	0.26233984	2.4167212	21	—	—
474794 2005 QX_{188}	16.6	X	323.92722	186.54526	186.52277	6.27517	0.1807456	0.18210765	3.0826005	21	8 27.6	20.0
474795 2005 QE_{190}	16.3	X	45.41741	107.11266	172.42517	8.83862	0.0575945	0.18360434	3.0658254	21	9 3.9	20.3
474796 2005 RW_5	17.9	X	147.33092	92.27623	263.63506	1.12351	0.2368628	0.27563864	2.3383489	21	1 22.3	21.2
474797 2005 RO_{22}	17.4	X	109.21872	36.93125	343.18622	10.03555	0.2179040	0.27032991	2.3688632	21	1 7.2	20.1
474798 2005 RD_{28}	15.6	X	5.32733	333.35535	342.54162	17.04733	0.2840539	0.18246428	3.0785826	21	9 9.8	18.3
474799 2005 RL_{29}	16.7	X	329.41079	18.91299	348.96576	3.85768	0.1653316	0.18350572	3.0669238	21	9 3.4	19.9
474800 2005 RA_{41}	18.3	X	83.84171	242.94171	127.53433	2.18357	0.1981776	0.26618215	2.3934081	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
474801 2005 RD_{42}	18.0	X	133.64258	104.89367	203.49070	3.16146	0.1999975	0.26749260	2.3855849	21	—	—
474802 2005 RB_{43}	16.6	X	8.51611	4.97974	347.59213	10.14810	0.0938917	0.18816817	3.0160505	21	10 16.7	20.5
474803 2005 RD_{44}	16.5	X	2.04066	114.83904	236.88993	10.04139	0.2261923	0.18515832	3.0486476	21	10 17.6	19.7
474804 2005 SB_{6}	17.3	X	84.94201	176.65459	247.97490	3.44738	0.1153041	0.27096854	2.3651397	21	1 11.1	19.7
474805 2005 SQ_{11}	16.8	X	309.05916	340.79452	32.81794	1.76441	0.2080805	0.17809775	3.1286989	21	7 30.3	20.5
474806 2005 SV_{11}	16.5	X	279.05392	231.77720	180.71259	5.76027	0.1762384	0.17683533	3.1435716	21	8 9.1	20.9
474807 2005 SZ_{11}	18.2	X	131.42432	201.27718	144.73872	1.70676	0.2093130	0.26966311	2.3727666	21	—	—
474808 2005 SW_{13}	18.2	X	131.62748	132.47092	188.19243	12.98894	0.2946168	0.26802799	2.3824070	21	—	—
474809 2005 SE_{14}	16.7	X	286.42155	32.53306	11.41815	9.08241	0.0889661	0.17872046	3.1214271	21	8 26.1	20.9
474810 2005 SA_{16}	18.1	X	137.30922	114.54193	217.77885	2.32667	0.2645303	0.27030956	2.3689821	21	—	—
474811 2005 SY_{16}	16.3	X	352.21748	340.66935	0.12728	9.60191	0.0757044	0.18134195	3.0912718	21	9 9.8	20.2
474812 2005 SR_{17}	16.0	X	337.22533	309.14930	10.72389	21.45101	0.1701785	0.17729439	3.1381429	21	7 18.8	20.1
474813 2005 SH_{18}	18.4	X	109.54079	172.42955	222.81816	0.73897	0.1839068	0.27225324	2.3576935	21	1 20.3	20.9
474814 2005 SQ_{23}	15.6	X	279.61364	36.92257	10.58373	28.12607	0.1804700	0.17882325	3.1202309	21	8 20.0	20.4
474815 2005 SO_{25}	17.0	X	286.69464	257.68413	118.76614	2.13094	0.1920151	0.17603979	3.1530352	21	7 2.6	21.4
474816 2005 SZ_{33}	17.6	X	70.87483	329.65419	78.80796	3.55119	0.1877230	0.26612710	2.3937382	21	—	—
474817 2005 SU_{37}	15.8	X	300.98924	7.39721	12.36035	15.20003	0.0654755	0.17818424	3.1276864	21	8 21.6	20.2
474818 2005 SZ_{38}	18.2	X	64.93148	232.93490	190.44068	1.00415	0.1654639	0.26809658	2.3820006	21	—	—
474819 2005 SK_{39}	17.4	X	301.24447	250.34042	147.04339	0.25646	0.2217905	0.17913340	3.1166283	21	8 15.7	21.0
474820 2005 SN_{39}	16.8	X	327.89002	224.65221	142.69923	0.52556	0.1394779	0.18067733	3.0988480	21	9 1.4	20.5
474821 2005 SW_{40}	17.8	X	240.43182	249.17866	15.18864	5.23911	0.0897685	0.27506300	2.3416102	21	—	—
474822 2005 SZ_{41}	17.8	X	58.64046	221.58425	246.16124	3.36020	0.0844176	0.27460456	2.3442156	21	1 23.8	20.3
474823 2005 SS_{42}	16.4	X	300.73833	143.69445	206.98662	14.06287	0.0943796	0.17330384	3.1861332	21	7 1.4	21.0
474824 2005 SK_{43}	16.6	X	246.26684	197.48536	211.59454	9.09111	0.1589760	0.17137649	3.2099768	21	6 30.5	21.7
474825 2005 SX_{43}	17.9	X	110.36865	104.65654	253.06467	1.67530	0.1841764	0.26702282	2.3883820	21	—	—
474826 2005 SY_{48}	18.1	X	155.00419	142.32802	195.36237	5.34885	0.2873287	0.27311094	2.3527547	21	1 11.9	21.8
474827 2005 SA_{50}	16.8	X	324.72129	185.27348	199.62813	2.18568	0.1767618	0.18120419	3.0928384	21	9 15.9	20.1
474828 2005 SH_{51}	18.0	X	351.80753	62.18090	200.20981	20.88434	0.0342288	0.35376229	1.9799841	21	5 17.2	20.1
474829 2005 ST_{55}	18.0	X	104.45853	225.82741	124.10120	0.39125	0.2434538	0.26533701	2.3984877	21	—	—
474830 2005 SP_{56}	15.7	X	346.12319	286.71122	26.67242	17.32136	0.1125860	0.17460416	3.1702949	21	7 29.2	19.9
474831 2005 SJ_{59}	16.5	X	318.83895	327.47220	22.93951	3.25334	0.1225819	0.17627955	3.1501756	21	7 27.5	20.4
474832 2005 SQ_{59}	16.5	X	35.91504	89.12798	199.04209	20.31308	0.2135853	0.18232345	3.0801677	21	9 21.9	20.4
474833 2005 SB_{63}	18.0	X	134.06020	3.05581	356.40736	3.52048	0.2601271	0.27272433	2.3549777	21	1 17.2	21.1
474834 2005 SF_{63}	18.4	X	125.29821	123.49260	217.93701	0.86898	0.1994526	0.26899117	2.3767164	21	—	—
474835 2005 SV_{63}	17.6	X	350.88964	266.13407	193.87120	2.11133	0.1643899	0.26035464	2.4289906	21	—	—
474836 2005 SA_{64}	17.9	X	204.07647	87.60083	190.42425	3.79099	0.1771577	0.27223658	2.3577897	21	—	—
474837 2005 SA_{67}	16.5	X	320.18744	199.34902	187.24029	8.74609	0.0948477	0.18237998	3.0795312	21	9 17.3	20.3
474838 2005 SD_{67}	16.7	X	349.29018	146.75481	189.38216	8.93201	0.0825686	0.18004612	3.1060865	21	8 26.3	20.6
474839 2005 SM_{67}	16.7	X	219.42571	255.70500	188.79268	8.58884	0.0603289	0.17429857	3.1739993	21	7 24.3	21.6
474840 2005 SM_{68}	16.6	X	291.89753	34.52902	333.02681	3.64152	0.1602117	0.17478105	3.1681555	21	7 3.4	20.9
474841 2005 SB_{73}	16.0	X	310.10659	129.98377	236.52288	4.92379	0.2633942	0.17739889	3.1369104	21	7 11.8	19.8
474842 2005 SX_{74}	18.1	X	105.21987	166.65061	187.12595	2.54839	0.1844693	0.26681857	2.3896008	21	—	—
474843 2005 SR_{75}	17.8	X	95.04011	12.04608	10.11427	1.26700	0.2000187	0.26824007	2.3811510	21	—	—
474844 2005 SC_{76}	16.8	X	237.47671	232.67857	183.68761	9.29862	0.0758532	0.17330201	3.1861556	21	7 8.8	21.6
474845 2005 SK_{76}	17.7	X	93.49145	72.78214	7.21574	6.93597	0.1720906	0.27591785	2.3367711	21	2 27.0	20.1
474846 2005 SR_{76}	16.2	X	341.05525	200.01685	148.73554	1.41197	0.1922047	0.18166880	3.0875630	21	8 28.7	19.3
474847 2005 SG_{77}	17.8	X	119.12176	339.55577	17.61600	3.05668	0.1905394	0.26943573	2.3741014	21	—	—
474848 2005 SX_{80}	17.1	X	333.54305	150.16560	181.71141	13.47748	0.2003096	0.17881805	3.1202914	21	7 16.3	20.8
474849 2005 SK_{82}	16.5	X	317.00006	348.35313	0.01623	4.86199	0.1382349	0.17700519	3.1415602	21	7 20.0	20.4
474850 2005 SN_{83}	17.8	X	82.37409	25.21229	5.09454	4.78455	0.1959184	0.26662597	2.3907514	21	—	—
474851 2005 SX_{84}	16.9	X	322.93940	86.24024	287.64272	0.35331	0.1170217	0.18058355	3.0999207	21	9 3.4	20.4
474852 2005 SN_{87}	16.8	X	342.93275	190.07645	160.20101	1.84223	0.1211648	0.18129910	3.0917588	21	9 5.6	20.3
474853 2005 SL_{90}	16.4	X	281.26859	14.58224	20.76059	10.73603	0.2182438	0.17468602	3.1693043	21	7 18.7	21.0
474854 2005 SD_{91}	17.9	X	99.25500	16.23037	11.32957	2.44303	0.2381797	0.26823149	2.3812018	21	1 3.6	20.2
474855 2005 SO_{92}	18.1	X	96.45014	142.74304	208.84902	1.04910	0.1804942	0.26378961	2.4078583	21	—	—
474856 2005 SQ_{93}	16.0	X	250.94608	75.83133	24.34835	11.56759	0.0573150	0.18001190	3.1064800	21	9 25.1	20.4
474857 2005 SY_{97}	16.3	X	341.08220	154.31418	222.09384	10.79556	0.2572652	0.18376963	3.0639868	21	10 4.1	19.0
474858 2005 SO_{101}	18.2	X	161.20914	50.18534	256.20981	3.27644	0.2209286	0.26958649	2.3732162	21	—	—
474859 2005 SR_{101}	16.5	X	270.17226	170.88297	228.38334	8.20771	0.0977428	0.17437945	3.1730179	21	7 22.3	21.2
474860 2005 SZ_{114}	17.8	X	124.97075	112.01305	222.64421	1.54285	0.2263819	0.26754205	2.3852909	21	—	—
474861 2005 SW_{129}	16.5	X	357.03987	264.63334	58.68631	1.08602	0.1757191	0.17924349	3.1153519	21	8 26.3	19.7
474862 2005 SR_{131}	16.3	X	276.51033	188.63917	204.20884	7.11561	0.1667915	0.17418583	3.1753687	21	7 12.9	21.0
474863 2005 SS_{131}	18.6	X	172.05656	322.39034	358.33846	1.17563	0.2064423	0.27319881	2.3522502	21	—	—
474864 2005 SQ_{136}	18.2	X	156.67420	127.40776	179.24001	3.33291	0.1720669	0.26970135	2.3725423	21	—	—
474865 2005 SH_{137}	18.5	X	77.61521	258.27699	162.22438	1.26986	0.1694053	0.26982261	2.3718315	21	—	—
474866 2005 SB_{138}	17.0	X	322.12335	110.26554	234.45892	14.31541	0.3001045	0.17972872	3.1097422	21	6 26.6	20.5
474867 2005 SO_{138}	16.4	X	351.83899	274.86449	16.18020	15.95501	0.0558486	0.17337897	3.1852126	21	7 5.6	20.9
474868 2005 SE_{139}	18.1	X	18.12539	282.92142	150.20791	2.76151	0.1834724	0.26121580	2.4236491	21	—	—
474869 2005 SN_{142}	16.8	X	359.05528	212.94224	102.03709	3.96729	0.1740277	0.18031700	3.1029750	21	8 19.4	20.1
474870 2005 SU_{142}	16.3	X	31.73994	185.45371	82.88313	4.58608	0.1438048	0.17806895	3.1290362	21	8 12.9	20.1
474871 2005 SH_{143}	16.3	X	347.37093	331.70229	24.94941	11.80589	0.0730580	0.18287687	3.0739504	21	9 25.3	20.2
474872 2005 SO_{144}	16.9	X	291.21218	177.83789	176.60274	10.17389	0.1276930	0.17353157	3.1833450	21	6 20.1	21.4
474873 2005 ST_{144}	16.7	X	243.77715	24.29035	23.85422	11.23740	0.1025476	0.17254015	3.1955278	21	7 4.9	21.7
474874 2005 SG_{147}	16.2	X	7.95705	127.35994	192.54135	7.05181	0.2215612	0.18184887	3.0855243	21	9 15.2	19.3
474875 2005 SZ_{147}	18.2	X	78.98809	346.96418	51.40105	2.45757	0.1672968	0.26609321	2.3939414	21	—	—
474876 2005 SC_{148}	16.8	X	330.97559	302.56478	68.20462	1.84452	0.1901841	0.18058575	3.0998956	21	9 8.9	20.1
474877 2005 SM_{148}	17.4	X	97.75224	317.91767	45.29267	2.91545	0.2176943	0.26525335	2.3989920	21	—	—
474878 2005 SJ_{149}	16.3	X	328.58451	297.69805	38.51913	9.73131	0.1010265	0.17513145	3.1639282	21	7 28.5	20.4
474879 2005 SM_{150}	16.4	X	327.00085	229.19339	113.50958	2.12914	0.1842447	0.17699657	3.1416621	21	7 22.8	20.0
474880 2005 SO_{150}	16.7	X	337.28447	236.85403	125.00410	2.77399	0.1506541	0.17994842	3.1072106	21	9 11.1	20.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
474881 2005 SK_{152}	16.0	X	315.12388	15.49678	40.30779	12.82651	0.2142058	0.18245087	3.0787334	21	10 10.6	19.4
474882 2005 SQ_{153}	16.5	X	253.03347	49.80373	353.52605	9.91567	0.0537252	0.17427536	3.1742812	21	7 17.2	21.1
474883 2005 SO_{160}	17.3	X	297.98160	75.50582	356.91499	5.14779	0.1970138	0.18375998	3.0640941	21	9 30.0	21.0
474884 2005 SD_{161}	16.7	X	212.30093	267.52958	190.45633	15.21429	0.2095494	0.17230434	3.1984427	21	7 22.5	22.3
474885 2005 SU_{168}	16.6	X	288.39540	177.28459	214.49577	10.46642	0.1222072	0.17760095	3.1345306	21	7 31.9	21.1
474886 2005 SJ_{169}	16.2	X	265.09850	133.09055	261.65059	3.35228	0.1721961	0.17374808	3.1807000	21	7 2.3	20.9
474887 2005 SJ_{170}	17.8	X	81.88278	64.10402	325.66754	3.37980	0.2028166	0.26640496	2.3920734	21	—	—
474888 2005 SR_{170}	17.7	X	63.83254	105.94268	344.41337	5.81647	0.1162631	0.27261021	2.3556348	21	1 12.5	20.0
474889 2005 SA_{171}	18.0	X	117.54929	62.05956	308.72421	2.09163	0.1787425	0.27059044	2.3673424	21	—	—
474890 2005 SJ_{173}	16.4	X	303.48705	147.61408	202.31357	11.58327	0.1589023	0.17548063	3.1597296	21	6 25.7	20.7
474891 2005 SL_{173}	17.5	X	213.09427	318.14215	342.58969	6.55326	0.1288365	0.27753993	2.3276574	21	1 9.6	21.0
474892 2005 SH_{175}	16.7	X	246.82105	121.56153	354.21602	12.86162	0.1530127	0.18231487	3.0802643	21	9 22.9	21.4
474893 2005 SK_{176}	16.1	X	263.96943	247.20330	217.99200	7.12363	0.1195973	0.18438338	3.0571837	21	10 4.5	20.3
474894 2005 ST_{177}	16.8	X	303.31168	101.23330	210.12109	12.62967	0.1856479	0.17054813	3.2203624	21	5 4.2	21.2
474895 2005 SV_{182}	16.5	X	302.62772	143.00547	207.72875	15.40749	0.0906715	0.17319910	3.1874176	21	7 4.1	21.1
474896 2005 SH_{183}	16.2	X	312.50897	332.21841	15.73161	27.91816	0.0771681	0.17447999	3.1717988	21	7 31.4	21.0
474897 2005 SG_{184}	16.7	X	278.92915	193.28464	208.49824	10.14050	0.0915768	0.17621437	3.1509524	21	8 5.8	21.2
474898 2005 SJ_{184}	17.6	X	60.63996	181.18412	238.14736	2.28486	0.1930304	0.26586864	2.3952893	21	—	—
474899 2005 ST_{184}	17.8	X	134.99659	107.91535	210.41326	5.29240	0.1610210	0.26622189	2.3931700	21	—	—
474900 2005 SW_{187}	18.1	X	60.19985	18.80845	49.52661	1.11425	0.1942179	0.26692006	2.3889950	21	—	—
474901 2005 SD_{188}	16.3	X	68.81652	265.46448	22.82395	10.34733	0.1080021	0.18594084	3.0400883	21	10 22.7	20.7
474902 2005 SM_{188}	16.2	X	23.94323	243.61662	20.28005	12.53269	0.0655012	0.17249040	3.1961422	21	7 19.2	20.6
474903 2005 SH_{196}	18.3	X	135.27392	143.74689	160.02271	1.28652	0.1905393	0.26561505	2.3968136	21	—	—
474904 2005 SH_{197}	18.2	X	129.41976	222.88990	152.08109	1.85010	0.1960635	0.27338579	2.3511775	21	1 21.7	21.1
474905 2005 SP_{197}	17.8	X	117.78543	10.41095	21.38743	3.80454	0.1514925	0.27383613	2.3485991	21	1 23.4	20.6
474906 2005 SC_{199}	17.7	X	98.31365	0.87114	355.29435	2.41066	0.2098880	0.26559790	2.3969168	21	—	—
474907 2005 SZ_{209}	15.9	X	4.33890	5.14967	346.21028	13.77001	0.1601593	0.18646687	3.0343680	21	10 12.1	19.6
474908 2005 SU_{210}	16.0	X	299.15816	19.47144	5.91564	18.67676	0.2058217	0.17795342	3.1303904	21	8 7.3	20.3
474909 2005 SY_{210}	17.5	X	144.02605	336.14030	29.36598	6.70812	0.1545587	0.27436877	2.3455585	21	1 23.3	20.7
474910 2005 SV_{211}	18.2	X	74.93448	204.86054	201.00917	1.72352	0.1719292	0.26628243	2.3928072	21	—	—
474911 2005 SC_{213}	18.1	X	52.63415	50.97990	11.38139	2.82159	0.1999383	0.26379498	2.4078256	21	—	—
474912 2005 SQ_{213}	16.8	X	336.93056	48.08399	309.94713	0.28119	0.1742816	0.17996088	3.1070672	21	9 2.9	20.3
474913 2005 SR_{214}	15.5	X	335.41579	136.93675	226.50177	15.33285	0.1733330	0.18024748	3.1037728	21	8 31.9	19.3
474914 2005 SU_{215}	17.7	X	110.89364	165.52224	219.30408	8.12660	0.2238579	0.26950532	2.3736927	21	1 13.4	20.5
474915 2005 SX_{215}	17.8	X	128.90882	11.46884	346.55228	10.46608	0.2471642	0.27112099	2.3642530	21	1 9.3	21.0
474916 2005 SU_{218}	16.0	X	295.02267	9.14508	40.06416	18.51010	0.2141721	0.17656082	3.1468291	21	9 2.6	20.4
474917 2005 SB_{224}	18.0	X	73.58544	190.54867	195.07995	2.11057	0.2293617	0.26440594	2.4041150	21	—	—
474918 2005 SB_{226}	16.6	X	328.98831	173.25386	206.49209	3.09434	0.2311684	0.18251197	3.0780463	21	9 12.0	19.8
474919 2005 SG_{232}	16.0	X	276.32001	48.39337	30.97544	10.94162	0.1627375	0.17834107	3.1258524	21	9 16.9	20.3
474920 2005 SX_{232}	16.6	X	209.31407	249.25910	212.83611	13.29024	0.1739525	0.16918012	3.2376992	21	7 25.8	22.1
474921 2005 SD_{234}	16.7	X	40.13821	112.30307	187.34355	14.38222	0.2076593	0.18610724	3.0382759	21	10 16.4	20.5
474922 2005 SC_{235}	17.8	X	110.54163	297.87495	96.58924	2.37950	0.1743161	0.27162386	2.3613341	21	1 19.7	20.3
474923 2005 SS_{236}	16.3	X	258.56399	227.99179	235.14688	4.47725	0.1326196	0.18046024	3.1013327	21	9 22.5	20.9
474924 2005 SA_{238}	16.1	X	313.60833	354.00188	23.89029	16.47656	0.0661599	0.17710731	3.1403524	21	9 7.0	20.4
474925 2005 SK_{238}	16.2	X	208.96206	73.82984	26.87656	20.86432	0.1374554	0.17017149	3.2251123	21	8 7.4	21.7
474926 2005 SA_{240}	15.9	X	347.48721	95.63240	229.18059	11.95017	0.0183751	0.17592812	3.1543694	21	8 6.7	20.5
474927 2005 SB_{240}	17.8	X	33.75589	201.28239	282.91875	5.06890	0.1630360	0.27152347	2.3619161	21	1 2.1	19.7
474928 2005 SG_{241}	16.9	X	316.72081	133.92213	219.77683	9.21565	0.2390876	0.17720215	3.1392318	21	7 9.0	20.7
474929 2005 SL_{247}	16.9	X	304.22082	5.99452	17.29510	0.54863	0.1713699	0.17733181	3.1377014	21	8 9.6	20.8
474930 2005 ST_{256}	17.9	X	148.93971	38.94824	302.29483	1.12244	0.1399034	0.27297015	2.3535636	21	—	—
474931 2005 SM_{257}	16.4	X	0.71492	158.56668	182.79374	2.04658	0.2260272	0.18450067	3.0558879	21	10 2.3	19.5
474932 2005 SN_{261}	17.7	X	118.20148	332.24880	13.20912	3.81273	0.2118001	0.26928187	2.3750056	21	—	—
474933 2005 SS_{263}	18.0	X	66.54667	247.37486	134.18979	1.80344	0.1829595	0.26161481	2.4211842	21	—	—
474934 2005 SB_{264}	18.1	X	119.93989	271.85190	68.52478	3.43478	0.1970592	0.26623713	2.3930786	21	—	—
474935 2005 SW_{271}	17.7	X	42.51145	96.77242	355.51843	6.13970	0.0625745	0.27067681	2.3668388	21	—	—
474936 2005 SE_{273}	16.5	X	206.25458	286.00615	240.64523	8.07269	0.0336087	0.18652708	3.0337150	21	10 22.9	21.0
474937 2005 SZ_{279}	17.4	X	74.49513	7.76008	52.32056	7.37860	0.0992132	0.26837895	2.3803295	21	—	—
474938 2005 SO_{280}	16.5	X	332.82791	110.56263	216.97427	8.24641	0.0907354	0.17456530	3.1707654	21	7 19.0	20.7
474939 2005 SX_{282}	16.4	X	321.76766	189.67139	160.22594	11.35317	0.2262203	0.17770676	3.1332864	21	7 15.9	20.0
474940 2005 SR_{284}	16.7	X	354.03643	180.41964	133.79797	10.31451	0.0778120	0.17496079	3.1659854	21	8 6.4	20.6
474941 2005 SD_{285}	16.3	X	298.87197	223.50777	143.88404	12.26418	0.1104693	0.17341982	3.1847125	21	7 19.4	20.6
474942 2005 SG_{285}	16.7	X	327.79456	219.79609	136.94953	11.06629	0.2305271	0.17819580	3.1275510	21	8 7.6	19.8
474943 2005 SE_{287}	16.4	X	45.18478	140.81445	125.45173	10.43339	0.2734922	0.18012544	3.1051745	21	9 23.1	20.5
474944 2005 SJ_{288}	18.3	X	171.19268	172.39937	132.73486	7.57019	0.2245532	0.27112189	2.3642478	21	—	—
474945 2005 SN_{291}	16.3	X	270.65191	188.71648	191.12466	8.98221	0.1399847	0.17137377	3.2100107	21	6 24.2	21.1
474946 2005 SE_{292}	16.6	X	215.04918	221.85324	227.33991	5.00460	0.0710635	0.17246085	3.1965073	21	7 24.8	21.5
474947 2005 SW_{292}	18.3	X	72.13932	15.15700	11.80485	1.29878	0.1896218	0.26473543	2.4021198	21	—	—
474948 2005 TR_{5}	16.2	X	298.21936	49.23259	342.36449	9.65736	0.2545115	0.17757748	3.1348069	21	7 31.4	20.2
474949 2005 TH_{12}	16.6	X	306.99206	322.67785	74.88258	2.49088	0.1462405	0.17919441	3.1159208	21	9 6.9	20.4
474950 2005 TJ_{13}	17.0	X	244.21469	98.64442	346.10457	1.34713	0.1893010	0.17307351	3.1889593	21	8 9.4	21.9
474951 2005 TD_{18}	16.0	X	351.16993	272.78549	66.78779	4.39890	0.2215675	0.18181668	3.0858885	21	9 9.4	19.0
474952 2005 TX_{21}	16.5	X	310.90791	2.38420	30.66036	7.57999	0.1630052	0.18058412	3.0999142	21	9 7.5	20.2
474953 2005 TD_{23}	17.9	X	91.96384	349.56494	42.83716	1.53728	0.2160386	0.26805131	2.3822688	21	—	—
474954 2005 TU_{24}	16.6	X	317.26055	349.96481	32.53464	17.94550	0.1979631	0.17861324	3.1226762	21	9 6.7	20.5
474955 2005 TD_{26}	16.6	X	314.47482	6.27109	37.70207	6.89700	0.1550650	0.18049872	3.1008920	21	9 28.3	20.2
474956 2005 TH_{26}	16.9	X	309.60489	291.75398	59.38419	1.51496	0.1915722	0.17379773	3.1800942	21	7 2.8	20.9
474957 2005 TY_{33}	16.5	X	258.16991	231.53058	175.82903	9.10322	0.0852114	0.17474896	3.1685434	21	7 20.4	21.2
474958 2005 TU_{34}	17.0	X	348.01244	226.37313	107.95420	2.50819	0.1856527	0.18111026	3.0939076	21	8 23.7	20.3
474959 2005 TP_{39}	16.6	X	356.29536	160.99317	192.44912	11.76534	0.0807689	0.18208265	3.0828828	21	9 30.9	20.5
474960 2005 TU_{41}	16.2	X	245.63550	220.31566	207.94529	28.37574	0.2675845	0.17240788	3.1971620	21	7 8.0	22.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
474961 2005 TJ_{46}	16.5	X	277.20662	208.86781	190.28588	17.36781	0.2074482	0.17508160	3.1645288	21	7 14.6	21.4
474962 2005 TW_{47}	16.0	X	312.85990	334.52738	20.83493	14.12147	0.1310285	0.17613848	3.1518573	21	7 27.5	20.2
474963 2005 TZ_{50}	16.0	X	283.37435	169.76793	226.81760	10.05418	0.2195832	0.17671443	3.1450052	21	7 17.5	20.5
474964 2005 TC_{58}	16.2	X	173.59036	103.50577	31.33035	16.40443	0.1777486	0.16935130	3.2355170	21	8 14.0	21.8
474965 2005 TW_{58}	17.8	X	172.04480	270.94876	33.45107	6.56442	0.1203528	0.26827220	2.3809610	21	—	—
474966 2005 TD_{59}	16.4	X	340.97845	316.53355	35.66104	12.21790	0.0943761	0.17868069	3.1218903	21	9 11.5	20.4
474967 2005 TT_{59}	16.8	X	281.80024	16.08425	19.49789	9.10031	0.0860575	0.17496440	3.1659417	21	8 9.5	21.3
474968 2005 TL_{61}	17.4	X	45.10420	86.65453	0.05825	4.56976	0.2085434	0.26707380	2.3880781	21	—	—
474969 2005 TH_{63}	18.0	X	124.83481	314.44146	40.98487	4.77314	0.1216819	0.26795431	2.3828437	21	—	—
474970 2005 TK_{63}	17.6	X	165.05015	297.48993	28.31554	15.28837	0.1063554	0.27062637	2.3671329	21	—	—
474971 2005 TP_{64}	17.0	X	292.50296	167.22123	16.42801	24.86569	0.1611892	0.26673666	2.3900899	21	—	—
474972 2005 TV_{64}	16.7	X	287.11961	49.03670	344.50560	11.02237	0.1004067	0.17986261	3.1081988	21	8 11.2	20.9
474973 2005 TL_{72}	16.5	X	303.42258	273.62359	106.84940	3.79775	0.2479409	0.17709091	3.1405464	21	7 23.4	20.4
474974 2005 TF_{77}	18.3	X	98.83414	281.22028	100.93864	2.47394	0.1847507	0.26806066	2.3822134	21	—	—
474975 2005 TC_{80}	16.3	X	222.43654	67.48789	350.91969	13.25268	0.0580650	0.17063898	3.2192192	21	6 28.4	21.3
474976 2005 TZ_{85}	18.1	X	151.17097	223.02148	103.85814	3.64695	0.2361345	0.27194466	2.3594767	21	—	—
474977 2005 TF_{86}	16.6	X	318.88566	159.52740	212.93355	9.44553	0.0840841	0.17784347	3.1316804	21	8 25.5	20.8
474978 2005 TC_{87}	18.3	X	74.64074	182.65321	208.01646	0.25282	0.2084723	0.26511689	2.3998151	21	—	—
474979 2005 TL_{96}	16.1	X	1.21071	302.59146	20.51096	14.07364	0.1648560	0.17919127	3.1159572	21	9 8.7	19.7
474980 2005 TQ_{97}	16.2	X	325.38838	303.31098	20.75597	10.70071	0.0908482	0.17160970	3.2070679	21	7 6.4	20.5
474981 2005 TL_{101}	15.9	X	317.00595	354.03612	31.75316	17.22662	0.0627273	0.18029518	3.1032253	21	9 22.4	20.2
474982 2005 TS_{102}	16.1	X	275.90250	178.59338	212.19830	9.64520	0.1335066	0.17319795	3.1874317	21	7 13.7	20.8
474983 2005 TV_{103}	17.5	X	132.99791	149.45545	226.22419	9.51667	0.2254370	0.27282374	2.3544056	21	1 27.9	20.9
474984 2005 TV_{112}	16.3	X	290.67321	177.23995	203.22609	14.85857	0.0719014	0.17598362	3.1537061	21	7 27.3	20.9
474985 2005 TA_{113}	18.3	X	51.33604	109.91471	292.92964	1.41230	0.1758183	0.26260305	2.4151060	21	—	—
474986 2005 TE_{121}	16.3	X	341.43203	289.86040	34.70198	4.87578	0.1179715	0.17641968	3.1485072	21	7 31.5	20.1
474987 2005 TW_{122}	16.8	X	271.28513	254.98254	192.74753	7.88840	0.2459101	0.17876859	3.1208669	21	9 2.6	21.4
474988 2005 TE_{123}	16.3	X	235.39114	85.64208	17.24958	10.93565	0.1899142	0.17578858	3.1560384	21	8 27.0	21.3
474989 2005 TE_{127}	16.9	X	338.39875	316.69914	2.52046	0.68006	0.1599009	0.17572579	3.1567902	21	7 14.2	20.6
474990 2005 TN_{128}	16.6	X	313.07476	305.41344	27.96198	5.14560	0.1417056	0.17258575	3.1949650	21	6 21.8	20.7
474991 2005 TU_{128}	16.4	X	314.44124	151.15084	207.41899	8.81723	0.1394057	0.17582357	3.1556196	21	7 25.5	20.5
474992 2005 TR_{129}	17.8	X	105.02609	175.49709	214.61905	0.91218	0.1745173	0.26930097	2.3748933	21	1 5.4	20.4
474993 2005 TP_{130}	17.0	X	295.82813	314.60318	128.84517	1.51858	0.1498877	0.18378464	3.0638199	21	10 19.0	20.8
474994 2005 TZ_{130}	16.6	X	299.37003	179.32133	182.81335	4.90065	0.1863348	0.17387907	3.1791023	21	7 1.9	20.8
474995 2005 TA_{132}	16.6	X	272.65782	70.20944	29.24361	18.37254	0.2237692	0.18098576	3.0953264	21	9 30.1	21.0
474996 2005 TE_{134}	16.3	X	345.53349	316.32027	31.30243	11.35135	0.1055746	0.17955235	3.1117784	21	9 11.9	20.2
474997 2005 TF_{136}	16.9	X	339.38054	228.36137	108.17502	1.76698	0.1956140	0.17968131	3.1102892	21	8 7.4	20.0
474998 2005 TZ_{145}	17.9	X	61.91678	309.20936	99.59238	3.42102	0.1744688	0.26452402	2.4033996	21	—	—
474999 2005 TU_{154}	16.4	X	266.48109	197.05741	205.47704	26.76573	0.1377795	0.17495518	3.1660530	21	7 12.9	21.6
475000 2005 TC_{155}	16.1	X	53.65498	54.80157	210.28116	17.39719	0.2043520	0.18201344	3.0836642	21	9 14.9	20.4
475001 2005 TX_{155}	16.6	X	233.82820	89.18707	357.78630	9.37114	0.2142025	0.17309833	3.1886545	21	8 2.4	21.8
475002 2005 TN_{157}	16.6	X	349.60221	149.90578	212.81157	11.60402	0.1413615	0.18327460	3.0695016	21	10 2.7	20.3
475003 2005 TO_{160}	16.3	X	310.95378	89.39980	259.13000	3.30255	0.1702689	0.17475671	3.1684497	21	7 4.4	20.3
475004 2005 TK_{161}	16.6	X	250.43815	59.92852	6.93613	6.77306	0.1594009	0.17299416	3.1899345	21	7 30.1	21.4
475005 2005 TX_{161}	17.0	X	268.22289	184.73942	215.71118	10.31869	0.1488881	0.17332555	3.1858671	21	7 14.1	21.8
475006 2005 TE_{162}	16.9	X	311.36477	42.67060	357.02658	4.02083	0.1749772	0.18022012	3.1040869	21	9 12.5	20.6
475007 2005 TF_{163}	16.4	X	338.38694	154.67600	210.91411	16.67624	0.1376803	0.18120279	3.0928543	21	9 13.6	20.2
475008 2005 TG_{165}	16.7	X	304.99996	344.77205	24.31243	9.54492	0.0974206	0.17468704	3.1692921	21	8 6.0	21.0
475009 2005 TV_{167}	16.7	X	334.00551	162.37579	216.97663	4.28214	0.1362770	0.18142585	3.0903187	21	9 27.5	20.3
475010 2005 TX_{168}	18.0	X	47.94822	205.99561	266.70076	1.41523	0.1733648	0.27070358	2.3666828	21	1 15.3	19.9
475011 2005 TG_{176}	18.2	X	130.26645	316.74326	55.07295	2.44465	0.1878415	0.27303893	2.3531684	21	1 18.3	21.1
475012 2005 TR_{176}	17.0	X	337.99684	86.51572	188.84366	22.97763	0.4256896	0.17597595	3.1537977	21	3 31.9	20.1
475013 2005 TF_{181}	16.6	X	288.71579	57.59726	27.63198	10.75936	0.1345093	0.18392113	3.0623040	21	10 13.0	20.4
475014 2005 TM_{191}	18.0	X	79.80090	6.69895	44.40920	3.01946	0.1746965	0.26565626	2.3965658	21	—	—
475015 2005 TN_{191}	16.8	X	295.80150	334.45133	64.09009	1.82081	0.1910182	0.17470674	3.1690537	21	8 14.2	20.7
475016 2005 UO	22.1	X	41.37163	258.57644	19.17273	7.70882	0.5823570	0.62795952	1.3505633	21	12 18.0	24.4
475017 2005 UC_{8}	16.2	X	276.76342	56.93703	31.90102	13.98131	0.2363348	0.17889730	3.1193698	21	9 19.9	20.6
475018 2005 UU_{8}	15.5	X	300.22712	341.01232	18.96501	27.27784	0.3150713	0.17695661	3.1421351	21	6 1.9	20.3
475019 2005 UB_{9}	17.6	X	118.02776	358.06554	31.91615	11.83612	0.2490011	0.27220192	2.3579898	21	2 10.2	20.8
475020 2005 UN_{10}	17.8	X	86.22228	239.96934	144.55114	5.99473	0.1959838	0.26518476	2.3994057	21	—	—
475021 2005 UA_{15}	16.1	X	330.58916	298.90111	42.57686	15.20705	0.0576783	0.17400445	3.1775750	21	8 14.8	20.6
475022 2005 UD_{17}	17.8	X	109.21013	107.41448	284.78600	2.76408	0.2000456	0.26934566	2.3746306	21	1 18.9	20.3
475023 2005 UY_{17}	18.4	X	84.84822	178.76578	227.87503	1.63981	0.2115383	0.26798396	2.3826679	21	—	—
475024 2005 UX_{20}	16.7	X	304.07159	81.97199	314.80329	2.00945	0.1912079	0.17786470	3.1314311	21	8 23.9	20.6
475025 2005 UB_{23}	16.4	X	235.83595	211.26626	221.88950	22.34355	0.1258137	0.17117382	3.2125099	21	7 17.5	21.7
475026 2005 UX_{24}	17.0	X	322.04338	2.96574	29.25557	5.59722	0.1418718	0.18043756	3.1015926	21	9 26.1	20.5
475027 2005 US_{25}	18.0	X	102.69034	184.82961	217.48546	4.81364	0.2280835	0.26974364	2.3722943	21	1 26.1	20.5
475028 2005 UF_{27}	17.9	X	104.19076	305.36496	41.11929	1.82916	0.2062662	0.26330372	2.4108196	21	—	—
475029 2005 UN_{27}	16.2	X	299.35472	21.75027	30.79934	14.34668	0.1161119	0.17950338	3.1123442	21	9 23.2	20.3
475030 2005 UY_{27}	17.5	X	153.10426	306.15858	36.55980	7.05590	0.1550181	0.27055179	2.3675679	21	1 3.7	20.8
475031 2005 UM_{28}	16.7	X	238.38389	97.49166	11.47105	0.33032	0.1072544	0.17667926	3.1454226	21	9 11.3	21.4
475032 2005 UP_{33}	17.0	X	280.66769	341.77525	43.00587	19.76641	0.1307709	0.17378545	3.1802439	21	7 17.7	21.8
475033 2005 UN_{37}	17.6	X	355.35622	61.44334	62.03178	7.28665	0.1168005	0.26106394	2.4245890	21	—	—
475034 2005 UW_{38}	18.4	X	104.53565	213.90325	193.64748	2.07116	0.1712630	0.26945990	2.3739594	21	1 27.9	20.9
475035 2005 UH_{39}	16.3	X	0.78712	288.97359	55.91067	17.43403	0.1905048	0.17974360	3.1095706	21	10 12.1	19.9
475036 2005 UH_{47}	17.7	X	66.88813	323.05138	56.75204	3.25217	0.2094123	0.26166578	2.4208698	21	—	—
475037 2005 UY_{47}	17.6	X	133.40179	286.97841	79.46372	3.76639	0.2483753	0.27100258	2.3649417	21	1 24.1	20.8
475038 2005 UV_{57}	18.1	X	98.43336	127.60957	280.07295	1.51822	0.1927274	0.26920189	2.3754760	21	1 22.5	20.5
475039 2005 UL_{58}	16.6	X	250.12080	220.91151	228.23659	7.11365	0.1371252	0.17415498	3.1757437	21	8 23.9	21.5
475040 2005 UP_{59}	18.0	X	191.76423	153.00200	131.42973	2.16706	0.1792241	0.26866380	2.3786468	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
475041 2005 UH_{62}	18.0	X	29.25196	276.85950	177.99036	0.93724	0.1536987	0.26266514	2.4147254	21	—	—
475042 2005 UO_{62}	18.1	X	17.34638	267.93362	210.97960	2.26680	0.1564865	0.26389117	2.4072405	21	—	—
475043 2005 UK_{67}	17.8	X	110.17093	209.00310	163.16504	1.41284	0.1994897	0.26792580	2.3830127	21	—	—
475044 2005 UD_{70}	16.8	X	285.28626	106.10640	320.15297	9.52257	0.2943124	0.17695292	3.1421788	21	8 17.9	21.0
475045 2005 UG_{70}	16.9	X	131.65360	79.69033	306.19415	10.57381	0.0514337	0.27399875	2.3476697	21	1 18.1	19.6
475046 2005 UF_{72}	16.4	X	282.35290	170.90334	261.07423	9.35499	0.2345284	0.17733275	3.1376904	21	8 26.2	20.8
475047 2005 UK_{85}	17.0	X	262.88171	271.86235	157.59473	1.79899	0.1496082	0.17441219	3.1726207	21	8 15.4	21.4
475048 2005 UT_{86}	16.5	X	300.23494	218.20796	151.07899	1.90816	0.1793888	0.17453770	3.1710996	21	7 14.0	20.7
475049 2005 UC_{92}	16.7	X	297.94635	56.79773	353.46132	4.84719	0.1292548	0.17768326	3.1335626	21	9 10.7	20.7
475050 2005 UR_{96}	16.7	X	276.91113	288.18357	112.44316	2.98891	0.0723134	0.17256052	3.1952763	21	8 8.2	21.1
475051 2005 UU_{97}	18.0	X	45.68132	220.13600	159.31780	2.86948	0.1646631	0.25630806	2.4544897	21	—	—
475052 2005 UD_{98}	16.2	X	356.85848	260.11263	64.18402	9.78102	0.0636050	0.17439610	3.1728159	21	8 28.9	20.5
475053 2005 UV_{101}	16.5	X	348.23808	130.76940	198.13515	8.72870	0.1715101	0.17630439	3.1498797	21	8 12.4	20.2
475054 2005 UA_{102}	18.2	X	43.87314	356.89751	98.64754	3.46934	0.1699515	0.26599315	2.3945417	21	—	—
475055 2005 UV_{103}	16.9	X	288.08163	216.54086	203.47438	3.71910	0.1104151	0.17652625	3.1472399	21	9 10.2	21.1
475056 2005 UH_{104}	16.4	X	314.25562	308.26660	66.59186	6.35367	0.1832175	0.17553873	3.1590324	21	8 15.7	20.2
475057 2005 UR_{106}	16.8	X	327.39287	268.84460	117.50341	3.27918	0.1603240	0.17949881	3.1123971	21	9 26.2	20.2
475058 2005 UD_{114}	18.0	X	43.46205	73.11402	28.70348	2.67154	0.1791172	0.26536150	2.3983401	21	—	—
475059 2005 UW_{115}	15.9	X	330.66840	146.17740	229.15433	18.28723	0.1561730	0.18140321	3.0905758	21	9 8.9	19.9
475060 2005 UM_{118}	15.6	X	63.17454	228.93032	36.21402	15.08876	0.0483837	0.17651453	3.1473793	21	9 15.5	20.2
475061 2005 UN_{118}	17.7	X	32.13346	73.67228	22.21305	2.65036	0.1968274	0.26414092	2.4057229	21	—	—
475062 2005 UE_{122}	16.7	X	270.49239	14.19122	34.19297	6.97148	0.0836740	0.17311536	3.1884454	21	8 10.6	21.2
475063 2005 UV_{123}	16.8	X	267.26416	6.24222	47.55591	1.66125	0.1610424	0.17295256	3.1904459	21	7 31.0	21.4
475064 2005 UK_{126}	18.3	X	64.49703	34.44621	39.98535	3.16067	0.1762439	0.26643981	2.3918649	21	—	—
475065 2005 UW_{126}	17.8	X	29.73479	34.87745	44.08403	4.62232	0.0313472	0.26203500	2.4185952	21	—	—
475066 2005 UH_{128}	18.2	X	27.97862	58.33011	42.90224	2.90366	0.1480315	0.26399586	2.4066040	21	—	—
475067 2005 UC_{129}	16.5	X	219.35845	182.71528	318.80925	0.76370	0.0619955	0.17948794	3.1125227	21	10 4.8	20.9
475068 2005 UB_{133}	16.4	X	250.36867	211.09030	207.29929	20.86734	0.1419927	0.17294695	3.1905150	21	7 14.8	21.7
475069 2005 UP_{133}	16.3	X	359.86140	355.07372	0.22941	10.75576	0.1326118	0.18722221	3.0262012	21	10 10.7	19.9
475070 2005 UC_{136}	18.3	X	118.88260	211.81379	169.83284	1.37057	0.1927538	0.27143061	2.3624548	21	1 16.7	20.9
475071 2005 UZ_{136}	18.3	X	60.70300	25.57042	38.87114	2.00378	0.1707991	0.26590544	2.3950683	21	—	—
475072 2005 US_{139}	16.9	X	320.62137	216.67614	168.30788	0.96855	0.1541955	0.17930101	3.1146857	21	9 10.9	20.6
475073 2005 UY_{139}	16.2	X	15.99211	285.48265	41.55605	16.32916	0.0855173	0.18032011	3.1029393	21	10 3.7	20.3
475074 2005 UC_{143}	16.5	X	296.53143	342.75382	34.41003	2.19683	0.0772355	0.17095400	3.2152632	21	8 3.9	20.9
475075 2005 UO_{147}	17.7	X	77.10640	335.31082	20.66847	5.62468	0.1301049	0.25837474	2.4413835	21	—	—
475076 2005 UA_{152}	16.6	X	300.21050	328.67070	36.24487	0.88245	0.1573810	0.17208426	3.2011691	21	7 11.9	20.8
475077 2005 UO_{155}	16.6	X	299.77776	250.72447	175.31904	12.67402	0.2941640	0.18011304	3.1053171	21	9 8.1	20.2
475078 2005 UZ_{156}	16.4	X	306.24770	335.00641	46.57344	7.72867	0.1692574	0.17633217	3.1495489	21	8 14.2	20.4
475079 2005 UL_{157}	17.8	X	248.22313	329.73049	40.60080	22.25065	0.0926532	0.35447811	1.9773176	21	5 10.2	20.1
475080 2005 UR_{157}	18.1	X	90.20974	5.92713	46.34240	2.15203	0.2205408	0.26726042	2.3869663	21	1 20.8	20.2
475081 2005 UP_{163}	17.7	X	149.16942	284.25925	352.89785	2.33960	0.1728650	0.25977460	2.4326050	21	—	—
475082 2005 UC_{170}	16.1	X	233.33661	175.06641	273.98494	2.27363	0.1757365	0.17018684	3.2249185	21	8 4.4	21.0
475083 2005 UY_{172}	16.2	X	254.81219	87.92312	42.94685	25.67069	0.2399588	0.18088003	3.0965324	21	10 17.6	20.9
475084 2005 UU_{175}	18.3	X	72.10777	94.57137	305.45023	1.75601	0.1760646	0.26279474	2.4139315	21	—	—
475085 2005 UM_{183}	16.1	X	284.18329	8.94293	43.60560	29.00616	0.1787764	0.17559586	3.1583472	21	9 4.7	21.0
475086 2005 UP_{183}	16.7	X	174.13774	217.42162	332.38494	0.11598	0.0594931	0.18086300	3.0967269	21	10 14.3	21.2
475087 2005 UF_{187}	17.8	X	44.65289	54.54332	60.20284	7.57270	0.0671291	0.26924877	2.3752003	21	1 13.9	20.5
475088 2005 UM_{187}	16.5	X	253.31383	195.59655	219.66753	3.56615	0.1712379	0.17377171	3.1804116	21	7 14.5	21.4
475089 2005 UE_{188}	16.2	X	220.89619	66.64818	31.81306	10.98823	0.0917218	0.17254145	3.1955118	21	8 16.3	21.2
475090 2005 UL_{188}	18.3	X	158.34211	10.65882	327.90376	0.98916	0.1907592	0.27183192	2.3601290	21	1 7.5	21.5
475091 2005 UF_{194}	18.0	X	118.21026	149.95735	202.95919	6.08339	0.1381465	0.26600863	2.3944489	21	—	—
475092 2005 UV_{194}	16.4	X	337.32795	304.00795	71.65117	4.48130	0.2179901	0.18038334	3.1022141	21	9 29.5	19.5
475093 2005 UG_{197}	16.9	X	291.72066	245.87721	140.98425	2.20794	0.1846302	0.17283356	3.1919102	21	7 23.9	21.2
475094 2005 UC_{200}	17.9	X	139.87154	255.61181	60.94459	3.20073	0.2077244	0.26437287	2.4043155	21	—	—
475095 2005 UZ_{202}	17.9	X	96.57405	186.46105	202.74647	3.89708	0.0352753	0.26571575	2.3962080	21	—	—
475096 2005 UD_{203}	16.1	X	172.70276	113.85664	49.99086	26.99929	0.1834719	0.17309232	3.1887283	21	9 25.6	21.9
475097 2005 UY_{217}	18.7	X	195.10854	70.41513	32.89395	21.92027	0.0724556	0.35844519	1.9627013	21	8 6.3	21.7
475098 2005 UB_{219}	17.8	X	46.75850	33.01568	10.94909	6.57998	0.1239206	0.26031107	2.4292616	21	—	—
475099 2005 UV_{219}	16.3	X	224.51558	234.93778	244.12571	7.14510	0.1030100	0.17622122	3.1508707	21	9 5.4	21.1
475100 2005 UH_{222}	18.1	X	67.65222	119.28106	317.19018	1.96730	0.1960648	0.26784394	2.3834982	21	1 6.2	19.7
475101 2005 UR_{222}	16.1	X	240.70157	208.84789	223.54626	26.54293	0.1544383	0.17143903	3.2091961	21	7 17.1	21.6
475102 2005 UQ_{231}	17.8	X	163.41620	287.33223	50.22627	2.14985	0.2064338	0.27185138	2.3600164	21	1 13.2	21.3
475103 2005 UV_{231}	17.8	X	43.13655	221.32229	207.84704	1.30093	0.1871262	0.26201963	2.4186897	21	—	—
475104 2005 UO_{233}	16.1	X	256.68629	341.11001	60.61467	16.94604	0.0481336	0.16922765	3.2370929	21	7 19.9	21.0
475105 2005 UP_{234}	18.0	X	8.85840	33.91715	78.55758	5.82159	0.0568406	0.26338655	2.4103142	21	—	—
475106 2005 UA_{237}	18.0	X	40.65211	315.83883	131.67612	3.69625	0.1607783	0.26369146	2.4084557	21	—	—
475107 2005 UB_{237}	16.6	X	268.16862	192.08297	204.21087	10.55799	0.1145757	0.17003881	3.2267898	21	7 13.7	21.5
475108 2005 UN_{245}	16.8	X	296.36115	227.82454	129.57010	1.34108	0.0780818	0.16934728	3.2355682	21	7 8.1	21.1
475109 2005 UC_{252}	16.0	X	317.25496	68.85368	307.35472	12.77220	0.1896464	0.17897580	3.1184576	21	8 17.0	19.6
475110 2005 US_{252}	16.7	X	309.61019	37.51290	22.38974	6.02717	0.1942223	0.18078265	3.0976444	21	10 4.7	20.0
475111 2005 UC_{259}	15.5	X	9.05439	99.03615	215.79473	19.49432	0.1365815	0.17731375	3.1379145	21	8 27.8	19.6
475112 2005 UO_{260}	17.6	X	293.56209	140.44879	69.70156	4.56682	0.0042649	0.26845554	2.3798768	21	—	—
475113 2005 UM_{262}	18.1	X	108.88123	259.35608	136.39999	1.83949	0.1859302	0.27039075	2.3685079	21	1 20.9	20.7
475114 2005 UF_{265}	18.7	X	41.86412	320.36754	150.12135	1.51092	0.1473823	0.26725413	2.3870037	21	—	—
475115 2005 UQ_{269}	16.6	X	198.60942	264.97238	203.82930	8.19974	0.0507545	0.17234873	3.1978935	21	7 31.1	21.5
475116 2005 UT_{270}	16.6	X	6.35807	124.18489	205.46508	16.21092	0.1477843	0.18137219	3.0909282	21	9 16.8	20.3
475117 2005 UN_{274}	15.9	X	314.96231	14.37576	4.51643	13.10661	0.2602492	0.17729715	3.1381104	21	8 14.0	19.5
475118 2005 UO_{275}	15.7	X	352.47960	313.83421	19.17290	15.05988	0.2724394	0.17936368	3.1139601	21	9 8.3	18.6
475119 2005 UY_{279}	16.7	X	315.25251	338.24187	54.23302	3.16984	0.1709714	0.17876180	3.1209459	21	9 11.3	20.4
475120 2005 UW_{280}	16.7	X	270.20258	190.16198	234.62198	10.13987	0.2232086	0.17304516	3.1893077	21	8 4.3	21.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
475121 2005 UT_{284}	16.6	X	71.17495	261.69993	65.87749	9.37204	0.1192601	0.19089628	2.9872466	21	12 14.3	20.9
475122 2005 UD_{287}	16.4	X	308.32070	326.26742	70.56540	6.42510	0.1154812	0.17889106	3.1194423	21	9 14.3	20.4
475123 2005 UH_{289}	16.3	X	313.41485	117.45287	250.58412	8.24803	0.0959325	0.17409751	3.1764426	21	8 9.9	20.6
475124 2005 UN_{289}	16.5	X	335.37221	91.79630	255.16941	7.57296	0.1004468	0.17481610	3.1677320	21	8 16.1	20.5
475125 2005 UG_{294}	16.3	X	2.54661	317.99079	9.00639	4.50811	0.1359166	0.17707623	3.1407199	21	9 9.5	19.9
475126 2005 UJ_{299}	17.0	X	261.70908	253.44133	179.47846	0.51416	0.1604198	0.17289244	3.1911855	21	8 16.9	21.5
475127 2005 UO_{301}	17.3	X	178.49496	202.87874	168.01858	5.80380	0.1757155	0.27786218	2.3258575	21	3 6.1	21.0
475128 2005 UU_{306}	16.6	X	327.76927	113.16446	227.98482	8.57085	0.1092925	0.17388921	3.1789787	21	7 26.9	20.7
475129 2005 UN_{307}	18.1	X	121.88041	324.41192	22.14584	1.77897	0.1922758	0.26517368	2.3994725	21	—	—
475130 2005 UR_{312}	15.7	X	317.85879	115.14748	239.59084	11.00845	0.1169961	0.17354548	3.1831749	21	7 27.4	19.9
475131 2005 UO_{317}	18.0	X	17.97313	215.21231	255.19697	1.75143	0.1463759	0.26739516	2.3861644	21	—	—
475132 2005 UT_{321}	15.9	X	45.15820	46.35701	246.13236	20.46527	0.1332990	0.17689111	3.1429107	21	9 22.8	20.5
475133 2005 UB_{325}	18.1	X	170.84073	109.79818	179.41100	4.04615	0.1120999	0.26682801	2.3895444	21	—	—
475134 2005 UH_{332}	17.4	X	159.62886	245.63933	64.55306	14.95781	0.3060198	0.26840834	2.3801557	21	—	—
475135 2005 UJ_{335}	17.8	X	93.20343	344.16284	71.85798	3.69750	0.1714406	0.26994228	2.3711304	21	1 22.9	20.2
475136 2005 UY_{337}	17.2	X	348.25848	133.91292	215.08076	11.39655	0.1349403	0.17926260	3.1151306	21	9 8.9	21.0
475137 2005 UB_{342}	15.6	X	297.62306	129.17893	245.82879	15.06072	0.0892172	0.17314748	3.1880510	21	7 26.1	20.1
475138 2005 UG_{342}	18.2	X	52.42103	148.61176	269.73436	5.63126	0.1194107	0.26280425	2.4138732	21	—	—
475139 2005 UC_{345}	16.3	X	6.25142	235.21310	61.63407	7.04923	0.2412600	0.17618879	3.1512573	21	8 14.2	19.4
475140 2005 UU_{347}	16.1	X	8.73839	76.01017	205.27481	6.90601	0.1238862	0.17067978	3.2187062	21	7 16.5	20.0
475141 2005 UQ_{348}	16.8	X	299.24074	137.25437	247.93057	9.17622	0.2389479	0.17657142	3.1467031	21	7 21.8	21.0
475142 2005 UD_{349}	15.7	X	296.55339	84.36162	309.06634	14.60857	0.2789732	0.17679214	3.1440836	21	7 25.6	19.6
475143 2005 US_{350}	16.3	X	274.36147	70.65135	352.53941	9.35110	0.2195218	0.17576501	3.1563205	21	8 14.4	20.8
475144 2005 UK_{354}	17.7	X	88.20598	27.65024	355.86813	4.08482	0.2476870	0.26457511	2.4030901	21	—	—
475145 2005 UP_{354}	15.4	X	296.85174	147.06352	243.14705	27.64681	0.2575391	0.17508088	3.1645374	21	7 14.9	20.1
475146 2005 UZ_{358}	16.9	X	299.06942	210.63990	217.53574	9.15249	0.0632070	0.18274289	3.0754527	21	10 12.8	21.1
475147 2005 UX_{362}	18.1	X	43.05061	36.09711	27.09934	5.83610	0.1329063	0.26334195	2.4105863	21	—	—
475148 2005 UR_{364}	17.8	X	151.78597	161.74020	189.48698	3.74493	0.2086918	0.27169328	2.3609318	21	1 17.8	21.2
475149 2005 UY_{366}	18.1	X	122.93290	268.81703	107.22623	3.23879	0.2029676	0.26980423	2.3719392	21	1 17.0	20.8
475150 2005 UC_{370}	16.3	X	329.94774	293.62248	59.10879	17.93941	0.1520362	0.17535304	3.1612621	21	8 23.6	20.4
475151 2005 UF_{374}	16.2	X	311.62319	169.84531	236.86057	16.83969	0.1912111	0.17858431	3.1230134	21	9 12.5	20.3
475152 2005 UY_{375}	15.7	X	243.01633	139.17408	267.53880	7.17928	0.0500241	0.16805306	3.2521590	21	7 6.9	20.3
475153 2005 UO_{379}	17.8	X	19.31916	359.06435	77.49368	2.51040	0.1612664	0.25989117	2.4318775	21	—	—
475154 2005 UL_{380}	16.3	X	339.18096	298.45414	65.14354	11.65398	0.0996794	0.17747403	3.1360250	21	9 24.0	20.4
475155 2005 UA_{381}	16.2	X	337.31939	300.91634	66.43142	10.73221	0.0921218	0.17812643	3.1283630	21	9 25.6	20.3
475156 2005 UJ_{386}	15.9	X	253.10029	74.48321	34.29143	12.57846	0.1374226	0.17994750	3.1072212	21	9 28.5	20.4
475157 2005 UO_{395}	18.3	X	37.88912	299.15483	183.57115	1.31078	0.1298652	0.27146525	2.3622538	21	1 9.9	20.3
475158 2005 US_{395}	15.7	X	299.59926	130.43630	243.62044	14.95086	0.1007095	0.17348192	3.1839524	21	7 26.0	20.2
475159 2005 UP_{396}	16.1	X	309.72164	331.94216	51.93109	18.30341	0.2143027	0.17735299	3.1374516	21	8 22.6	20.2
475160 2005 UQ_{405}	18.1	X	61.92202	268.66564	128.62300	2.00232	0.1918365	0.25979638	2.4324691	21	—	—
475161 2005 UH_{408}	16.5	X	89.50313	216.04588	45.71746	11.23546	0.0182145	0.18136122	3.0910529	21	10 6.9	20.9
475162 2005 UF_{410}	16.1	X	289.74230	340.67956	68.04237	10.59823	0.0809811	0.17518004	3.1633431	21	9 9.0	20.5
475163 2005 UZ_{411}	16.5	X	254.17069	73.44351	68.91431	13.23099	0.2687477	0.18122404	3.0926126	21	10 24.2	21.2
475164 2005 UQ_{417}	16.3	X	304.38716	345.58265	58.26950	10.71263	0.0794724	0.17865788	3.1221560	21	9 23.9	20.5
475165 2005 UK_{424}	16.6	X	318.54205	182.61011	219.12681	8.83685	0.1302218	0.18139773	3.0906381	21	9 30.2	20.4
475166 2005 UT_{432}	16.9	X	295.11014	234.60465	151.50498	1.67050	0.1823183	0.17344257	3.1844340	21	7 28.1	21.0
475167 2005 UO_{433}	18.3	X	46.54647	293.51268	173.38200	0.74834	0.1325393	0.26697777	2.3886507	21	1 4.9	20.5
475168 2005 UL_{434}	16.5	X	340.50289	247.23207	90.94942	2.74511	0.1439202	0.17641348	3.1485810	21	8 15.4	20.0
475169 2005 UW_{440}	17.8	X	17.16526	104.58435	340.30999	4.88603	0.2068062	0.26009767	2.4305902	21	—	—
475170 2005 UW_{444}	16.2	X	322.11542	166.43125	200.35090	27.94668	0.1740939	0.18046231	3.1013090	21	8 11.1	20.5
475171 2005 UC_{445}	17.8	X	89.88818	242.97844	137.95007	4.92728	0.1833631	0.26586124	2.3953337	21	—	—
475172 2005 UC_{450}	16.2	X	319.80576	313.24710	70.09040	7.27330	0.1437222	0.17920521	3.1157956	21	9 12.5	20.0
475173 2005 UL_{457}	15.7	X	324.26152	103.84417	267.93382	14.45446	0.2687447	0.17850819	3.1239012	21	8 9.8	19.2
475174 2005 UX_{459}	17.7	X	51.05375	62.69676	46.53005	4.46920	0.1649545	0.26719611	2.3873493	21	1 19.5	19.6
475175 2005 UJ_{460}	16.5	X	314.58117	333.94603	47.32859	7.79174	0.2488492	0.17609597	3.1523645	21	8 16.5	20.1
475176 2005 UQ_{471}	18.0	X	60.30925	67.49254	3.91415	2.52266	0.0629280	0.26591855	2.3949896	21	—	—
475177 2005 US_{471}	16.3	X	290.91681	18.61494	21.58006	4.95405	0.1621965	0.17470910	3.1690252	21	8 14.9	20.4
475178 2005 UC_{472}	17.5	X	138.86688	352.98645	291.78639	3.03499	0.0774784	0.25564607	2.4587251	21	—	—
475179 2005 UC_{473}	17.9	X	127.45778	50.89319	10.50807	2.64413	0.1849881	0.27474381	2.3434234	21	3 20.4	20.9
475180 2005 UQ_{475}	16.3	X	59.19794	228.55276	59.54119	12.18434	0.0237106	0.17861578	3.1226466	21	10 4.4	20.8
475181 2005 UE_{484}	15.7	X	302.54219	314.97913	51.60867	11.38984	0.1017976	0.17475806	3.1684334	21	7 28.8	20.0
475182 2005 UE_{486}	18.2	X	287.13245	119.57348	221.16148	19.66221	0.1281846	0.35773198	1.9653091	21	5 17.2	20.1
475183 2005 UP_{486}	16.4	X	292.33585	121.50245	257.78991	11.96863	0.3172817	0.17623096	3.1507546	21	6 24.2	20.9
475184 2005 UO_{500}	16.2	X	335.61251	204.32614	179.51753	15.30944	0.2478531	0.18117309	3.0931923	21	10 4.8	18.9
475185 2005 UF_{503}	15.9	X	261.19332	256.30414	237.40719	19.55469	0.3314610	0.18195822	3.0842881	21	10 3.6	20.8
475186 2005 UJ_{510}	18.1	X	45.32655	8.51366	48.05706	5.72027	0.1787021	0.26085223	2.4259006	21	—	—
475187 2005 UM_{510}	16.4	X	249.54512	47.87497	70.14083	10.72958	0.1988684	0.17850197	3.1239737	21	9 29.2	21.2
475188 2005 UO_{510}	16.9	X	265.77989	6.92836	70.85799	2.29435	0.1513358	0.17425133	3.1745730	21	8 30.5	21.4
475189 2005 UB_{512}	16.2	X	193.30312	77.66679	74.52802	9.76217	0.1577206	0.17213137	3.2005850	21	9 19.1	21.5
475190 2005 UL_{514}	16.6	X	348.88280	86.78324	190.14505	30.75732	0.1878760	0.17308775	3.1887844	21	6 3.1	20.8
475191 2005 UP_{516}	16.8	X	340.53603	163.96812	182.36351	7.90430	0.1368859	0.18053769	3.1004457	21	8 24.6	20.4
475192 2005 UK_{517}	16.5	X	328.20525	153.53718	190.15039	21.50254	0.1002492	0.17659387	3.1464364	21	7 30.6	20.9
475193 2005 UG_{518}	16.5	X	239.56407	308.41137	140.91595	10.14840	0.0408745	0.17488020	3.1669579	21	8 28.2	21.0
475194 2005 UR_{518}	16.2	X	355.46316	119.97085	186.64692	21.33371	0.0888694	0.17354125	3.1832267	21	7 25.8	20.6
475195 2005 UC_{521}	17.9	X	293.07559	285.02391	143.46239	1.79545	0.1480216	0.18317701	3.0705917	21	9 25.4	21.6
475196 2005 US_{522}	16.8	X	280.39413	327.49892	121.28701	2.82723	0.0647864	0.18590052	3.0405278	21	10 16.2	20.8
475197 2005 UX_{530}	17.8	X	144.41757	217.02682	130.04546	4.60722	0.2596459	0.27137757	2.3627626	21	1 11.6	21.2
475198 2005 VC_{1}	17.3	X	126.70426	90.93432	246.71754	19.60294	0.3696297	0.26777955	2.3838803	21	—	—
475199 2005 VQ_{2}	15.9	X	324.16050	328.14985	23.31757	28.12421	0.1837675	0.17425799	3.1744921	21	8 15.3	20.2
475200 2005 VR_{3}	18.4	X	233.57579	57.65611	22.79519	17.44086	0.1614690	0.36028304	1.9560209	21	8 10.7	21.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
475201 2005 VR_5	16.8	X	336.85933	322.44280	52.97093	3.74620	0.2236212	0.18022473	3.1040340	21	9 27.0	19.7
475202 2005 VU_{10}	18.3	X	122.27049	190.95702	183.93638	3.31026	0.2426243	0.26930186	2.3748881	21	1 19.9	21.2
475203 2005 VA_{11}	18.1	X	141.10049	255.68715	157.06595	2.77401	0.1808948	0.27674019	2.3321397	21	3 23.9	21.4
475204 2005 VU_{15}	15.9	X	241.42340	249.09878	231.33976	14.83872	0.1871443	0.17956747	3.1116037	21	9 14.1	20.9
475205 2005 VQ_{16}	16.9	X	110.47738	149.50796	262.13553	9.59162	0.1182100	0.27394980	2.3479494	21	1 30.1	19.8
475206 2005 VD_{18}	16.4	X	43.25735	225.61215	40.32655	10.62242	0.0332923	0.17280636	3.1922451	21	8 16.3	20.9
475207 2005 VS_{20}	16.4	X	343.68116	148.68098	216.63550	15.76127	0.1407912	0.18023707	3.1038923	21	9 23.1	20.1
475208 2005 VK_{25}	15.7	X	204.88698	278.03777	215.96118	25.11094	0.2131334	0.17251957	3.1957819	21	8 23.8	21.6
475209 2005 VV_{25}	17.9	X	87.74145	69.22808	12.95460	6.18538	0.2512440	0.27163133	2.3612908	21	3 6.9	20.3
475210 2005 VM_{34}	16.3	X	266.78601	230.39446	166.20634	7.20061	0.1751838	0.17177719	3.2049830	21	7 5.7	21.0
475211 2005 VV_{34}	17.8	X	117.53281	71.31124	301.96800	1.79895	0.2086654	0.26932039	2.3747791	21	1 6.9	20.3
475212 2005 VA_{37}	16.4	X	358.05347	335.73539	17.00528	3.16592	0.1899602	0.18202303	3.0835559	21	10 9.2	19.6
475213 2005 VS_{37}	17.6	X	132.51333	228.36878	118.56129	5.77229	0.2072847	0.26801523	2.3824826	21	—	—
475214 2005 VW_{37}	16.3	X	257.23512	346.74271	76.82989	10.88640	0.1185055	0.17081992	3.2169456	21	8 8.6	21.1
475215 2005 VX_{46}	17.5	X	117.29731	336.71944	26.85740	7.70579	0.1164749	0.26727519	2.3868783	21	—	—
475216 2005 VJ_{62}	16.8	X	235.29490	104.70029	349.02004	8.92297	0.0622734	0.17883452	3.1200997	21	8 26.7	21.2
475217 2005 VC_{71}	18.6	X	86.81266	252.44375	132.62505	1.99353	0.1895769	0.26313948	2.4118227	21	—	—
475218 2005 VP_{72}	16.3	X	321.73358	313.97903	72.09612	11.53340	0.2140883	0.17782820	3.1318596	21	9 14.9	19.9
475219 2005 VD_{79}	16.7	X	273.21232	15.63124	27.22841	9.40694	0.0694155	0.17356962	3.1828799	21	8 10.3	21.3
475220 2005 VG_{87}	18.3	X	152.80217	182.72226	146.67900	0.79857	0.2152548	0.26863772	2.3788007	21	—	—
475221 2005 VN_{89}	16.3	X	215.75964	289.14579	192.82957	7.83570	0.1751824	0.17135188	3.2102841	21	8 26.3	21.5
475222 2005 VC_{90}	15.9	X	2.03991	310.76798	48.08359	12.57336	0.0457020	0.17876646	3.1208916	21	10 17.8	20.1
475223 2005 VU_{96}	16.9	X	330.15830	102.26757	242.00066	8.48827	0.2440769	0.17616012	3.1515992	21	7 21.3	20.3
475224 2005 VC_{98}	16.4	X	292.86065	352.99591	42.51882	11.57146	0.1420943	0.17453634	3.1711160	21	8 18.2	20.8
475225 2005 VL_{101}	15.8	X	54.15244	228.44206	19.39422	14.94259	0.1087284	0.17273702	3.1930994	21	8 20.3	20.3
475226 2005 VX_{109}	18.2	X	37.63615	55.34706	57.29684	3.34043	0.1508261	0.26750068	2.3855368	21	—	—
475227 2005 VU_{110}	18.1	X	82.46830	23.97304	54.38331	2.17484	0.1707400	0.27031773	2.3689344	21	2 5.2	20.2
475228 2005 VJ_{112}	15.9	X	267.99847	209.16391	246.92366	8.58707	0.0628480	0.17977625	3.1091942	21	10 4.0	20.3
475229 2005 VL_{114}	18.3	X	13.74438	212.75276	241.29146	3.16040	0.1695887	0.25868451	2.4394342	21	—	—
475230 2005 VD_{125}	15.7	X	303.33036	111.84699	273.14847	24.01905	0.2147216	0.17498743	3.1656640	21	7 26.6	19.9
475231 2005 VJ_{129}	17.5	X	47.18465	250.28656	164.87576	4.35279	0.1756921	0.26334952	2.4105401	21	—	—
475232 2005 VK_{130}	16.5	X	349.98540	138.09902	173.66190	11.14656	0.0230911	0.17425237	3.1745604	21	7 26.9	21.0
475233 2005 VW_{132}	16.4	X	280.22406	269.93079	162.83699	11.10377	0.1497165	0.17843101	3.1248019	21	9 11.6	20.6
475234 2005 WH	15.6	X	328.67638	126.34500	251.96342	16.14427	0.1730968	0.18033737	3.1027413	21	9 6.1	19.5
475235 2005 WF_2	15.9	X	262.94147	29.18720	80.05218	18.38852	0.1714045	0.17850089	3.1239863	21	10 11.9	20.6
475236 2005 WV_3	15.3	X	314.99878	64.60749	287.28022	25.23747	0.2769735	0.17591195	3.1545627	21	6 30.6	19.0
475237 2005 WL_{10}	16.5	X	189.46256	301.80419	237.20909	9.86335	0.1314573	0.17933219	3.1143246	21	10 11.5	21.6
475238 2005 WO_{12}	15.8	X	327.69675	96.34901	235.13888	20.50234	0.0818053	0.16994079	3.2280305	21	7 13.3	20.4
475239 2005 WD_{16}	18.2	X	54.88149	202.28888	231.74084	0.79127	0.1553027	0.26313950	2.4118225	21	—	—
475240 2005 WK_{17}	18.2	X	120.86551	289.77650	67.96029	5.90588	0.2498500	0.26603504	2.3942904	21	—	—
475241 2005 WU_{20}	17.6	X	285.81953	228.38129	320.34216	2.50481	0.0610187	0.26003866	2.4309579	21	—	—
475242 2005 WB_{21}	17.3	X	323.69468	117.88965	251.77699	14.39038	0.3789744	0.17818255	3.1277061	21	7 19.2	20.5
475243 2005 WP_{24}	17.4	X	328.55447	239.39680	267.38308	5.21471	0.0869388	0.25948583	2.4344094	21	—	—
475244 2005 WU_{28}	17.9	X	116.55464	322.22904	50.27490	5.90413	0.1260875	0.26551142	2.3974372	21	—	—
475245 2005 WL_{30}	16.4	X	232.76358	68.84632	58.11399	10.61615	0.1845597	0.17484844	3.1673414	21	9 23.9	21.5
475246 2005 WL_{31}	18.4	X	66.01265	12.90669	37.93666	2.98742	0.2149522	0.26192205	2.4192904	21	—	—
475247 2005 WX_{32}	18.0	X	99.74905	108.89493	259.21323	2.36692	0.2452998	0.26309357	2.4121033	21	—	—
475248 2005 WH_{33}	15.9	X	219.78573	41.87735	70.85329	26.47245	0.1459711	0.16903521	3.2395493	21	9 4.7	21.5
475249 2005 WM_{37}	18.0	X	99.50824	299.05002	83.09356	5.65129	0.1574838	0.26369261	2.4084488	21	—	—
475250 2005 WP_{40}	17.1	X	110.93545	296.55852	76.74318	7.17710	0.1413880	0.26357385	2.4091721	21	—	—
475251 2005 WZ_{45}	17.2	X	123.09324	217.06844	81.28303	3.33534	0.2117502	0.25539023	2.4603668	21	—	—
475252 2005 WQ_{46}	16.0	X	311.70418	144.05369	237.28176	19.69506	0.0824915	0.17538379	3.1608926	21	8 20.8	20.6
475253 2005 WN_{48}	16.3	X	307.23257	303.03438	72.02382	13.27008	0.2056726	0.17243520	3.1968243	21	7 31.7	20.4
475254 2005 WP_{62}	16.0	X	301.78553	314.27130	92.48694	10.49999	0.2076631	0.17629969	3.1499357	21	9 5.1	20.0
475255 2005 WM_{64}	17.3	X	289.67473	291.23611	235.31090	4.85856	0.1445523	0.25499977	2.4628778	21	—	—
475256 2005 WV_{66}	17.8	X	321.57872	291.74990	226.64030	2.84276	0.0930911	0.26043756	2.4284750	21	—	—
475257 2005 WC_{67}	16.1	X	252.23934	219.91207	246.94997	10.55325	0.0708733	0.17611873	3.1520929	21	9 25.0	20.7
475258 2005 WM_{68}	16.6	X	323.51266	268.12048	87.00832	1.75702	0.1809934	0.17395855	3.1781339	21	8 3.2	20.3
475259 2005 WM_{76}	16.6	X	298.55646	339.11347	63.71849	16.56659	0.2607701	0.17505156	3.1648908	21	8 19.4	20.9
475260 2005 WS_{78}	16.0	X	232.60317	184.71327	265.29863	12.47639	0.0395043	0.16817397	3.2505999	21	8 14.1	20.9
475261 2005 WQ_{85}	15.9	X	349.39271	112.67794	245.66685	25.32543	0.2102955	0.17957671	3.1114970	21	9 17.9	19.8
475262 2005 WR_{90}	15.6	X	257.97304	221.46325	246.33747	16.66285	0.2046236	0.17738545	3.1370689	21	9 11.8	20.6
475263 2005 WE_{91}	17.5	X	108.98446	98.90746	300.50060	4.70705	0.2061136	0.26891220	2.3771817	21	1 29.5	20.1
475264 2005 WY_{92}	16.6	X	281.86264	157.86581	265.26837	0.92785	0.1182198	0.17361659	3.1823057	21	9 4.8	20.8
475265 2005 WG_{101}	16.1	X	251.92845	351.46730	106.82795	17.32071	0.4024686	0.16765626	3.2572884	21	8 13.4	21.8
475266 2005 WC_{103}	17.5	X	264.25329	168.29857	233.24686	19.72935	0.1007287	0.35950656	1.9588364	21	7 16.6	20.0
475267 2005 WO_{103}	15.4	X	348.52188	258.03963	70.17355	26.50552	0.2644441	0.17643665	3.1483054	21	8 26.4	19.0
475268 2005 WN_{121}	17.8	X	48.29516	192.78187	232.96280	4.51962	0.2211839	0.26118651	2.4238304	21	—	—
475269 2005 WF_{124}	17.8	X	103.25517	349.21646	54.65549	2.19246	0.1697550	0.26963306	2.3729429	21	1 21.8	20.3
475270 2005 WX_{124}	17.0	X	265.45915	19.14104	63.03527	2.23243	0.1494087	0.17312319	3.1883492	21	9 4.8	21.4
475271 2005 WB_{125}	16.6	X	298.58468	147.71579	216.82663	1.02703	0.1424919	0.17230570	3.1984258	21	7 11.0	20.8
475272 2005 WK_{125}	15.6	X	69.50961	27.06746	231.30162	27.45595	0.1534078	0.17651651	3.1473557	21	9 14.5	20.5
475273 2005 WR_{126}	17.8	X	184.88818	219.80587	63.25541	4.30794	0.1555288	0.26381906	2.4076791	21	—	—
475274 2005 WF_{127}	16.4	X	222.09962	254.06338	235.72789	9.26629	0.1641427	0.17487763	3.1669889	21	9 9.6	21.6
475275 2005 WJ_{127}	16.2	X	20.18249	63.95021	237.99475	12.14838	0.0326093	0.17242403	3.1969623	21	8 20.7	20.8
475276 2005 WR_{139}	17.0	X	291.15499	152.49860	266.70493	4.17924	0.1187755	0.17474735	3.1685627	21	9 10.9	21.3
475277 2005 WP_{142}	17.1	X	318.19030	181.89579	189.95693	1.02930	0.2202383	0.17627870	3.1501857	21	8 10.5	20.6
475278 2005 WS_{144}	17.9	X	17.78062	66.76320	334.03592	2.44376	0.1410437	0.25211992	2.4815971	21	—	—
475279 2005 WF_{148}	16.0	X	260.06630	260.66819	154.69560	6.73697	0.1490169	0.17045605	3.2215220	21	7 24.8	20.9
475280 2005 WJ_{149}	17.8	X	82.09615	41.35646	332.92004	2.76585	0.1538533	0.25926029	2.4358211	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
475281 2005 WK_{150}	15.9	X	262.35754	174.91107	253.67610	16.29957	0.1929246	0.17173993	3.2054464	21	8 1.7	21.0
475282 2005 WO_{151}	15.5	X	265.08644	164.41689	256.20973	26.08500	0.1583273	0.17161339	3.2070219	21	7 26.4	20.6
475283 2005 WW_{152}	17.7	X	355.11512	98.91965	40.92568	2.25543	0.1103378	0.26212139	2.4180637	21	—	—
475284 2005 WM_{153}	16.1	X	286.80737	348.11566	61.52320	10.18625	0.1684136	0.17277636	3.1926147	21	8 23.1	20.5
475285 2005 WU_{163}	17.6	X	28.18751	15.84427	66.24498	7.13871	0.1116293	0.25873565	2.4391127	21	—	—
475286 2005 WV_{164}	15.4	X	205.61859	240.78846	260.33911	24.84240	0.2085204	0.17031560	3.2232928	21	8 27.1	21.3
475287 2005 WH_{172}	18.4	X	114.06299	252.71117	95.22236	2.78467	0.1442182	0.26187266	2.4195946	21	—	—
475288 2005 WO_{205}	18.3	X	35.89541	26.62003	85.84866	4.67817	0.1266643	0.26586057	2.3953378	21	—	—
475289 2005 XB_{2}	17.9	X	87.39661	126.35966	249.48420	5.77551	0.1891763	0.26172185	2.4205240	21	—	—
475290 2005 XV_{3}	15.9	X	231.77946	53.23524	74.82044	11.01102	0.1670391	0.17539655	3.1607393	21	9 26.6	20.9
475291 2005 XE_{19}	17.5	X	12.06939	64.97253	2.99533	2.44942	0.1709141	0.25463848	2.4652068	21	—	—
475292 2005 XH_{29}	16.0	X	299.96249	129.47336	278.92517	15.62407	0.2274308	0.17623363	3.1507228	21	8 19.8	20.2
475293 2005 XQ_{30}	16.4	X	269.40636	7.03814	98.50947	11.88433	0.1763990	0.17784634	3.1316467	21	10 10.5	20.9
475294 2005 XJ_{32}	18.6	X	72.48371	165.59387	261.50877	1.52925	0.1866135	0.26472170	2.4022029	21	1 2.3	20.5
475295 2005 XS_{32}	15.6	X	25.75607	212.65795	84.57594	15.67432	0.1423228	0.17135155	3.2102882	21	9 16.9	19.9
475296 2005 XT_{33}	16.2	X	302.11814	330.00425	83.14966	14.49230	0.2429660	0.17544574	3.1601485	21	9 11.5	20.3
475297 2005 XS_{48}	17.2	X	114.85890	136.88308	272.51831	10.25885	0.3746529	0.27113934	2.3641464	21	3 9.9	20.8
475298 2005 XM_{50}	17.7	X	26.22314	40.46647	12.26854	3.49627	0.2130570	0.25372146	2.4711432	21	—	—
475299 2005 XQ_{54}	18.3	X	88.04838	51.61464	337.34532	1.46771	0.2178010	0.26345760	2.4098808	21	—	—
475300 2005 XN_{62}	18.3	X	72.12137	60.43512	8.63212	1.48436	0.1682459	0.26495734	2.4007784	21	1 2.7	20.4
475301 2005 XF_{68}	16.8	X	290.24389	7.81200	25.88510	3.63408	0.2018311	0.17214317	3.2004387	21	7 29.4	21.0
475302 2005 XZ_{69}	17.7	X	35.36706	51.70145	22.48362	2.99164	0.1446674	0.25906176	2.4370654	21	—	—
475303 2005 XB_{72}	17.0	X	130.69639	323.60403	285.23191	13.62808	0.0705767	0.24054035	2.5606138	21	11 13.8	20.9
475304 2005 XB_{78}	16.2	X	305.83395	296.94426	89.14502	13.27905	0.1685265	0.17196497	3.2026493	21	8 20.1	20.4
475305 2005 XZ_{79}	17.8	X	208.63542	344.93996	121.62492	22.30033	0.2832114	0.35340368	1.9813233	21	8 2.1	21.0
475306 2005 YR_{1}	16.3	X	292.07452	91.48624	320.26814	24.61462	0.2809984	0.17203041	3.2018371	21	8 11.4	20.5
475307 2005 YP_{13}	17.3	X	334.85567	137.34677	292.52064	13.27273	0.0623222	0.24301917	2.5431717	21	12 20.2	20.4
475308 2005 YR_{15}	18.1	X	356.10002	173.84969	290.90444	1.35829	0.1670914	0.25247504	2.4792695	21	—	—
475309 2005 YB_{23}	18.1	X	31.19021	354.71446	98.75320	2.38179	0.1439404	0.25799892	2.4437539	21	—	—
475310 2005 YU_{29}	17.7	X	66.99384	52.07065	336.66621	4.10703	0.1972076	0.25582055	2.4576070	21	—	—
475311 2005 YA_{31}	18.2	X	355.82182	13.42842	105.07038	3.40227	0.1167805	0.25453904	2.4658488	21	—	—
475312 2005 YU_{45}	18.2	X	21.46789	272.84050	171.26643	1.10219	0.1530594	0.25506596	2.4624517	21	—	—
475313 2005 YC_{57}	18.2	X	63.85368	0.84809	88.77734	3.41653	0.1456879	0.26438476	2.4042434	21	1 15.2	20.4
475314 2005 YD_{82}	17.8	X	75.69787	264.49110	124.16115	2.71983	0.2175348	0.25744036	2.4472873	21	—	—
475315 2005 YW_{100}	18.2	X	43.12729	185.40596	253.67069	1.65707	0.1550223	0.25848951	2.4406609	21	—	—
475316 2005 YL_{107}	16.5	X	292.91363	143.55481	280.47635	13.76868	0.2492360	0.17338859	3.1850948	21	8 26.2	20.8
475317 2005 YX_{113}	17.5	X	43.07359	16.28144	41.72060	3.43919	0.1811883	0.25532736	2.4607707	21	—	—
475318 2005 YZ_{126}	17.8	X	94.12147	63.86592	52.68086	3.44144	0.2007242	0.27171384	2.3608128	21	4 25.2	20.6
475319 2005 YS_{148}	15.9	X	234.65989	160.37463	306.21027	14.12529	0.1564414	0.16737614	3.2609216	21	8 25.2	21.0
475320 2005 YE_{162}	17.8	X	28.75563	10.94827	126.10717	8.67222	0.2845756	0.26239596	2.4163766	21	1 1.9	19.2
475321 2005 YU_{167}	17.8	X	58.66100	238.31322	164.98046	2.78421	0.1655133	0.25533375	2.4607296	21	—	—
475322 2005 YE_{187}	17.2	X	287.39514	191.74950	294.65472	9.05952	0.0313393	0.24433557	2.5340290	21	12 26.9	20.3
475323 2005 YK_{199}	17.3	X	212.21077	239.71332	308.53601	10.94664	0.1222928	0.23963129	2.5670857	21	11 22.9	21.2
475324 2005 YO_{199}	17.0	X	313.04553	189.99634	296.89913	13.32795	0.0200007	0.24733610	2.5134932	21	—	—
475325 2005 YJ_{207}	17.4	X	30.17853	36.71559	23.90086	1.07923	0.2174283	0.25271559	2.4776961	21	—	—
475326 2005 YL_{224}	17.6	X	44.57324	133.00941	264.54631	0.78459	0.1848631	0.25303417	2.4756159	21	—	—
475327 2005 YN_{228}	18.4	X	29.29052	186.13582	266.01456	0.54544	0.1555783	0.25703938	2.4498319	21	—	—
475328 2005 YC_{235}	18.1	X	107.22827	307.57020	61.52467	2.44601	0.2318260	0.26048984	2.4281500	21	—	—
475329 2005 YV_{271}	17.0	X	237.06954	32.44363	135.38696	11.85574	0.1870574	0.23670454	2.5882029	21	11 22.3	20.8
475330 2005 YX_{276}	17.6	X	107.21489	303.37914	64.56102	3.53124	0.2238316	0.25717152	2.4489926	21	—	—
475331 2006 AY_{18}	17.1	X	89.10992	90.06216	290.06523	10.26224	0.0317886	0.25323793	2.4742878	21	—	—
475332 2006 AK_{27}	17.8	X	46.69544	321.86530	120.66363	2.06013	0.1563067	0.25701569	2.4499824	21	—	—
475333 2006 AR_{28}	17.8	X	58.21496	33.72058	11.09747	3.44890	0.1980094	0.25656279	2.4528648	21	—	—
475334 2006 AW_{34}	17.9	X	304.68985	179.00449	291.65108	11.44192	0.1280754	0.24506058	2.5290286	21	12 26.7	20.5
475335 2006 AQ_{42}	15.8	X	272.89571	233.52632	132.28489	20.55655	0.0250413	0.15488631	3.4339505	21	6 27.7	20.9
475336 2006 AN_{82}	17.2	X	34.02476	164.38072	298.95812	10.59780	0.1801779	0.25825194	2.4421574	21	—	—
475337 2006 AT_{104}	17.7	X	327.33019	147.03178	314.10615	5.54504	0.0880582	0.24487438	2.5303105	21	—	—
475338 2006 AV_{104}	17.1	X	128.34071	292.53557	324.81311	10.86507	0.0966524	0.23221416	2.6214621	21	11 21.4	21.3
475339 2006 BF_{1}	17.8	X	19.86304	149.96617	309.56291	5.56044	0.1061628	0.25467134	2.4649948	21	—	—
475340 2006 BR_{28}	18.4	X	59.09622	137.62397	293.68493	1.42855	0.1813688	0.25822993	2.4422962	21	—	—
475341 2006 BF_{48}	17.3	X	146.49986	334.31634	320.79499	7.62502	0.0522717	0.24725279	2.5140577	21	—	—
475342 2006 BP_{66}	18.2	X	21.11410	76.79046	38.28841	1.70625	0.1321739	0.25709380	2.4494861	21	—	—
475343 2006 BX_{69}	17.4	X	37.71072	70.74718	13.53613	4.75486	0.1321108	0.25519893	2.4615962	21	—	—
475344 2006 BO_{98}	17.4	X	122.90859	194.74515	311.02228	19.62122	0.0323984	0.34223316	2.0242058	21	6 19.5	19.9
475345 2006 BJ_{107}	17.4	X	89.69864	249.56682	118.51222	8.32644	0.2042110	0.25365845	2.4715525	21	—	—
475346 2006 BM_{110}	17.7	X	81.19425	349.06809	60.86932	2.43625	0.1727808	0.25810592	2.4430784	21	—	—
475347 2006 BG_{111}	17.1	X	184.77762	250.88209	329.38112	11.08922	0.1231986	0.23678638	2.5876065	21	12 3.8	21.2
475348 2006 BK_{140}	17.7	X	58.90389	288.40433	95.29026	2.37085	0.1868985	0.25347795	2.4727256	21	—	—
475349 2006 BR_{146}	17.8	X	2.28036	54.60425	22.89205	2.76721	0.0699301	0.24728361	2.5138488	21	—	—
475350 2006 BB_{161}	17.3	X	358.01373	151.58033	306.02694	8.61305	0.0495216	0.24752021	2.5122467	21	—	—
475351 2006 BP_{164}	17.0	X	160.18758	231.52837	333.99071	13.62443	0.1079866	0.22805461	2.6532417	21	10 16.9	21.3
475352 2006 BF_{193}	17.7	X	169.67039	87.50908	160.74110	4.00694	0.0614561	0.23927621	2.5696247	21	12 28.3	21.4
475353 2006 BX_{234}	17.5	X	120.23582	345.30952	327.00753	4.69737	0.1124485	0.24509482	2.5287931	21	—	—
475354 2006 CE	18.6	X	138.74363	231.35727	331.90256	44.30996	0.3609592	0.41535912	1.7790448	21	9 16.9	22.6
475355 2006 CP_{2}	17.8	X	197.35151	229.99963	312.78634	4.04631	0.0743109	0.23476021	2.6024739	21	11 4.3	21.5
475356 2006 CQ_{5}	16.9	X	282.66687	198.00638	293.37499	14.30356	0.0543271	0.24192156	2.5508583	21	12 24.6	20.0
475357 2006 CB_{12}	17.9	X	57.40659	5.30645	138.25797	7.98247	0.0699447	0.26696994	2.3886974	21	3 18.7	20.5
475358 2006 CY_{15}	17.9	X	38.85965	110.73641	345.85621	6.54988	0.1020927	0.25619980	2.4551811	21	—	—
475359 2006 CC_{26}	17.1	X	205.08943	258.56309	320.71742	13.82273	0.0283914	0.24282151	2.5445517	21	—	—
475360 2006 CH_{48}	18.2	X	64.96332	277.39355	157.50895	3.43190	0.2433773	0.25988903	2.4318909	21	1 4.9	19.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
475361 2006 CX_{67}	17.2	X	121.07630	289.04161	358.99318	10.05765	0.0434831	0.23610249	2.5926009	21	12 23.1	21.0
475362 2006 CE_{68}	17.2	X	302.05157	330.72562	145.17742	11.08568	0.0773161	0.23929217	2.5695105	21	12 29.8	20.4
475363 2006 DE_{32}	16.3	X	101.21637	1.16798	346.87091	17.05018	0.1673379	0.24232841	2.5480023	21	—	—
475364 2006 DD_{37}	17.3	X	91.50486	76.86073	173.13252	15.07498	0.2881014	0.21690086	2.7434383	21	10 26.9	22.0
475365 2006 DC_{43}	17.5	X	204.33107	105.32625	140.56853	2.91437	0.0908646	0.24277278	2.5448922	21	—	—
475366 2006 DU_{45}	16.8	X	90.57883	340.91271	352.97900	15.08183	0.0731692	0.23757996	2.5818411	21	—	—
475367 2006 DA_{114}	17.0	X	103.01541	355.11879	0.88331	11.02405	0.1385591	0.24402673	2.5361666	21	—	—
475368 2006 DG_{116}	17.3	X	203.42407	213.04715	13.27110	11.18588	0.1169111	0.23562367	2.5961121	21	—	—
475369 2006 DC_{128}	17.2	X	205.67445	196.15871	333.32324	14.15325	0.0366597	0.23310525	2.6147771	21	10 26.5	21.1
475370 2006 DV_{132}	17.1	X	104.20207	247.82390	14.48489	7.72989	0.2178417	0.22434874	2.6823799	21	11 11.7	21.7
475371 2006 DQ_{134}	17.3	X	108.66218	184.31592	103.10100	3.74351	0.1311052	0.23221007	2.6214929	21	12 13.1	21.2
475372 2006 DN_{154}	17.1	X	336.92736	88.71278	351.60743	22.11939	0.0424096	0.23623698	2.5916168	21	—	—
475373 2006 DV_{165}	17.6	X	216.51937	68.48421	145.36262	5.68678	0.0577119	0.23832451	2.5764610	21	—	—
475374 2006 DP_{216}	17.5	X	263.91652	174.51634	357.90186	5.05453	0.0471025	0.24089678	2.5580874	21	—	—
475375 2006 EY_{1}	17.3	X	151.34977	258.61750	24.14990	4.88895	0.1739832	0.23568404	2.5956687	21	—	—
475376 2006 ET_{16}	17.4	X	118.91986	108.96441	120.54921	2.54507	0.1353055	0.22087495	2.7104313	21	10 13.7	21.5
475377 2006 EO_{34}	17.1	X	192.56079	244.06818	19.04106	9.66027	0.0797244	0.24069701	2.5595027	21	—	—
475378 2006 ES_{73}	17.2	X	259.36753	333.38058	185.53639	7.71633	0.1306895	0.23798154	2.5789358	21	12 15.4	20.5
475379 2006 FX_{13}	17.1	X	130.16118	81.19274	187.94183	13.22698	0.1396060	0.22737492	2.6585266	21	12 11.4	21.6
475380 2006 FF_{25}	17.4	X	126.17538	268.08844	16.83259	5.77000	0.1699550	0.22854714	2.6494284	21	12 26.9	21.8
475381 2006 FV_{54}	16.7	X	183.67694	50.35744	198.88272	14.99142	0.0795762	0.23265921	2.6181180	21	—	—
475382 2006 GZ_{3}	17.2	X	261.30877	337.27114	194.09983	6.92869	0.1509339	0.24007532	2.5639194	21	12 31.2	20.4
475383 2006 GP_{5}	16.9	X	164.18373	178.08527	88.55227	4.80595	0.1309898	0.23420420	2.6065912	21	—	—
475384 2006 GN_{19}	15.4	X	270.66959	193.13285	81.42884	4.05273	0.1425726	0.12269461	4.0109976	21	2 24.5	21.4
475385 2006 GH_{20}	17.2	X	128.75567	142.47463	59.24705	4.30378	0.1290402	0.21634891	2.7481024	21	9 19.1	21.4
475386 2006 GT_{21}	16.9	X	167.60988	221.41483	2.89779	11.17471	0.0752618	0.22959137	2.6413889	21	11 20.9	21.0
475387 2006 GA_{28}	17.1	X	229.64993	339.90847	198.59062	11.17212	0.0935427	0.23028764	2.6360621	21	12 5.9	20.9
475388 2006 GK_{38}	16.6	X	151.67098	110.90856	107.81365	13.78101	0.1996718	0.22335836	2.6903033	21	11 5.4	21.4
475389 2006 GR_{51}	17.0	X	239.13568	32.26495	139.77225	14.43426	0.1929620	0.23333529	2.6130583	21	11 28.8	20.9
475390 2006 HN_{7}	18.5	X	243.78609	104.62505	142.50508	0.98424	0.2680466	0.30781390	2.1724205	21	—	—
475391 2006 HW_{30}	17.9	X	137.82021	208.27758	65.69346	25.59388	0.1284992	0.42284610	1.7579823	21	—	—
475392 2006 HY_{32}	16.9	X	263.52255	345.00204	216.30594	25.82383	0.1874588	0.23984468	2.5655628	21	—	—
475393 2006 HW_{35}	17.1	X	166.54717	208.41597	50.18690	5.27776	0.1343262	0.23397548	2.6082897	21	—	—
475394 2006 HJ_{43}	16.7	X	36.45519	68.76240	227.06420	11.38074	0.2355258	0.21006772	2.8026132	21	10 10.3	20.2
475395 2006 HN_{49}	17.0	X	198.47410	354.58218	161.27560	2.83241	0.1183185	0.22386080	2.6862763	21	9 30.1	21.1
475396 2006 HE_{58}	16.7	X	173.61832	53.68987	196.21081	16.65270	0.1640875	0.23017466	2.6369246	21	12 25.6	21.3
475397 2006 HK_{74}	17.0	X	46.92546	217.77812	200.46378	9.74801	0.1712827	0.23861655	2.5743584	21	—	—
475398 2006 HU_{88}	17.2	X	89.61331	166.87691	103.62828	15.06210	0.1774446	0.21645994	2.7471626	21	11 11.4	21.7
475399 2006 HK_{106}	16.9	X	97.74814	264.64658	63.47901	13.44067	0.1789211	0.22852763	2.6495792	21	—	—
475400 2006 HH_{117}	17.0	X	219.88030	17.76328	206.24661	26.79719	0.0944943	0.23581806	2.5946852	21	—	—
475401 2006 HH_{152}	17.2	X	139.61969	138.67956	118.11074	8.62008	0.1379109	0.22415799	2.6839014	21	12 5.6	21.5
475402 2006 JN_{2}	17.2	X	87.14079	140.30157	102.91658	6.07541	0.0984158	0.21246503	2.7814915	21	9 23.6	21.2
475403 2006 JO_{4}	17.1	X	163.98783	8.74725	209.67754	12.18868	0.1350656	0.22423421	2.6832932	21	11 11.7	21.4
475404 2006 JV_{4}	17.4	X	200.47167	68.27278	148.05177	2.86835	0.0669902	0.22902180	2.6457664	21	12 21.3	21.2
475405 2006 JU_{6}	17.3	X	102.90895	200.36380	59.54742	6.11584	0.1256161	0.21879951	2.7275444	21	11 2.6	21.3
475406 2006 JP_{16}	17.1	X	131.82286	221.09616	72.10640	6.37481	0.0880788	0.22920012	2.6443940	21	—	—
475407 2006 JX_{21}	17.1	X	140.12442	27.68100	199.37210	13.17783	0.0855085	0.21972328	2.7198941	21	10 29.3	21.2
475408 2006 JG_{29}	16.9	X	60.44292	228.35790	54.15441	14.28467	0.1837302	0.21375794	2.7702643	21	10 24.3	20.8
475409 2006 JQ_{31}	16.9	X	134.31172	188.01211	72.95880	15.13725	0.0736654	0.22434915	2.6823767	21	12 3.2	20.7
475410 2006 JS_{56}	16.3	X	123.70365	239.10873	73.60889	15.66065	0.1514341	0.23103671	2.6303612	21	—	—
475411 2006 KA_{12}	16.8	X	133.22232	171.66642	135.46453	11.99384	0.1256240	0.23201046	2.6229963	21	—	—
475412 2006 KZ_{12}	16.5	X	273.92046	41.03640	116.51861	14.38233	0.0444519	0.23365992	2.6106375	21	—	—
475413 2006 KY_{13}	17.0	X	145.74833	39.85905	177.17782	11.12452	0.1361330	0.22039060	2.7144010	21	10 24.9	21.3
475414 2006 KZ_{15}	16.9	X	140.75443	168.80602	95.25120	8.01622	0.2553828	0.22421223	2.6834686	21	12 14.7	21.6
475415 2006 KP_{18}	16.7	X	33.26556	191.93914	146.93418	10.30172	0.1649722	0.21921547	2.7240929	21	11 26.7	20.3
475416 2006 KE_{22}	16.8	X	180.73306	193.40815	64.22589	12.50648	0.1371566	0.23079806	2.6321741	21	—	—
475417 2006 KZ_{23}	16.8	X	136.56023	207.06909	63.38242	12.71501	0.0524382	0.22559499	2.6724920	21	12 16.0	20.7
475418 2006 KM_{35}	17.0	X	159.38804	57.45870	191.12050	15.51132	0.1551269	0.22519481	2.6756571	21	12 12.6	21.6
475419 2006 KK_{52}	16.5	X	227.54154	350.36116	229.14023	16.55659	0.1190995	0.23376253	2.6098734	21	—	—
475420 2006 KK_{66}	17.0	X	58.39307	266.18214	59.10077	12.65743	0.1429548	0.22133555	2.7066698	21	12 5.1	20.7
475421 2006 KN_{80}	17.5	X	40.60865	123.65818	207.88555	10.90086	0.1738465	0.21577640	2.7529612	21	11 26.2	21.1
475422 2006 KP_{95}	17.5	X	331.67644	342.80421	169.87448	6.54403	0.1562131	0.24248571	2.5469003	21	—	—
475423 2006 KH_{100}	16.4	X	177.40830	320.34426	249.69107	10.38836	0.2104049	0.22463949	2.6800649	21	11 9.2	21.0
475424 2006 KX_{122}	16.9	X	149.23793	155.92746	97.99554	9.73438	0.1316948	0.22372291	2.6873800	21	12 10.3	21.2
475425 2006 MR_{1}	16.8	X	13.79486	235.25528	129.20839	12.09509	0.1524152	0.21919969	2.7242236	21	11 29.6	20.2
475426 2006 PH	16.4	X	76.40784	38.25600	277.69414	7.78079	0.1409019	0.21222111	2.7836224	21	12 12.7	20.4
475427 2006 PV_{10}	18.4	X	207.82992	159.00307	177.38131	2.54539	0.1827869	0.30435650	2.1888416	21	2 14.1	21.9
475428 2006 PJ_{20}	16.5	X	88.02192	288.13120	44.24598	9.41923	0.2996720	0.21568306	2.7537554	21	—	—
475429 2006 QZ_{4}	17.0	X	3.78206	146.68539	214.97581	1.32556	0.0803107	0.20369654	2.8607524	21	10 26.7	20.4
475430 2006 QW_{11}	17.9	X	199.22664	310.15177	1.20331	4.50498	0.2123460	0.30020222	2.2089885	21	1 9.6	21.4
475431 2006 QG_{17}	18.1	X	181.95107	235.34611	129.59015	8.18490	0.1668590	0.30350179	2.1929491	21	2 28.1	21.3
475432 2006 QA_{87}	18.8	X	144.44452	207.08884	176.75348	4.32937	0.2325669	0.29735096	2.2230871	21	2 19.6	21.9
475433 2006 QW_{98}	18.3	X	199.74686	15.18630	318.12480	3.82662	0.2309647	0.30121301	2.2040439	21	2 5.9	21.7
475434 2006 QR_{121}	16.6	X	355.87253	321.52494	16.67940	6.67497	0.2272551	0.19805300	2.9148425	21	9 20.6	19.2
475435 2006 QR_{130}	16.6	X	49.30771	308.40596	347.51016	18.82171	0.2408900	0.20444395	2.8537760	21	10 21.8	20.8
475436 2006 QZ_{147}	16.6	X	7.30649	31.52932	0.64142	9.61364	0.0919197	0.20651267	2.8346857	21	12 10.9	20.4
475437 2006 QS_{170}	16.4	X	356.85355	43.34905	338.85440	14.71377	0.1530121	0.20430880	2.8550343	21	11 11.9	20.0
475438 2006 QD_{173}	17.0	X	322.15383	83.68323	354.91472	5.70110	0.1821848	0.20634552	2.8362163	21	11 28.8	20.0
475439 2006 QG_{183}	17.5	X	16.26668	131.27143	225.49308	1.88912	0.1732543	0.20233815	2.8735419	21	11 19.5	20.9
475440 2006 QC_{185}	16.8	X	38.61115	309.41632	22.97235	2.19550	0.0720298	0.20320747	2.8653407	21	11 6.2	20.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
475441 2006 RP_{15}	18.0	X	193.42729	65.83122	276.60229	4.72723	0.2006982	0.30097392	2.2052110	21	2 9.1	21.5
475442 2006 RQ_{21}	16.7	X	291.68404	280.42736	139.61645	2.85098	0.0867263	0.19650593	2.9301214	21	9 22.8	20.6
475443 2006 RG_{24}	18.5	X	221.30425	85.47408	221.79089	5.15545	0.2144898	0.30303750	2.1951884	21	1 20.4	22.1
475444 2006 RM_{35}	15.8	X	56.29843	245.64357	30.03112	11.50439	0.0616161	0.19710808	2.9241508	21	9 20.7	19.8
475445 2006 RD_{51}	18.1	X	114.10704	219.98646	187.67843	5.59046	0.1563802	0.29253768	2.2474058	21	2 2.7	20.7
475446 2006 RM_{52}	18.3	X	145.57111	29.48154	20.12511	3.86542	0.0464476	0.29955604	2.2121640	21	3 5.3	21.0
475447 2006 RJ_{54}	18.4	X	263.31494	28.30009	10.13009	20.42762	0.1064185	0.38618694	1.8675446	21	7 27.4	20.8
475448 2006 RG_{55}	16.6	X	271.52463	24.07725	23.24998	10.65799	0.0957674	0.18785307	3.0194223	21	8 11.2	20.9
475449 2006 RB_{56}	17.8	X	33.95996	238.12535	99.31818	1.68849	0.1336681	0.20082445	2.8879633	21	11 15.4	21.4
475450 2006 RF_{59}	17.9	X	178.45003	172.24965	192.14916	7.25328	0.1623088	0.29901022	2.2148553	21	2 20.5	21.2
475451 2006 RL_{65}	17.8	X	177.88385	355.47497	2.83578	6.00736	0.1920673	0.30024036	2.2088014	21	2 17.9	21.1
475452 2006 RR_{66}	16.5	X	278.65814	36.20899	11.48590	12.62199	0.2040758	0.18827891	3.0148678	21	8 5.1	20.8
475453 2006 RL_{68}	16.9	X	299.10317	59.80824	7.82278	6.11811	0.0509974	0.20041937	2.8918533	21	10 16.1	20.6
475454 2006 RD_{74}	17.2	X	338.14733	154.96975	182.04779	13.69754	0.0851578	0.19122387	2.9838339	21	8 9.7	21.1
475455 2006 RB_{76}	16.9	X	292.51793	347.15258	14.34060	3.65925	0.0926117	0.18673052	3.0315112	21	7 6.7	20.9
475456 2006 RT_{78}	17.0	X	41.99412	157.91042	173.82657	6.36980	0.0872781	0.20284018	2.8687986	21	11 13.9	20.8
475457 2006 RQ_{79}	17.1	X	305.50052	353.31643	24.68658	2.68313	0.1197275	0.19144965	2.9814875	21	8 13.7	20.9
475458 2006 RT_{85}	16.5	X	37.83232	332.38706	5.42922	15.26384	0.1490204	0.20305481	2.8667767	21	11 18.3	20.5
475459 2006 RK_{86}	18.7	X	96.77041	67.71801	7.47035	4.24994	0.1027001	0.29543153	2.2327057	21	2 9.0	20.9
475460 2006 RY_{87}	17.9	X	339.37858	169.18681	9.11378	7.56352	0.0472088	0.29426943	2.2385800	21	—	—
475461 2006 RM_{115}	16.1	X	275.31687	113.90999	9.08957	15.04603	0.0987245	0.20327357	2.8647195	21	11 13.3	20.0
475462 2006 SW_{5}	18.9	X	268.87885	129.65661	350.30452	9.01802	0.3950626	0.39696198	1.8335951	21	10 15.4	19.6
475463 2006 SW_{26}	18.0	X	202.96158	334.03514	355.42106	5.26675	0.1811759	0.30058839	2.2070961	21	2 3.6	21.5
475464 2006 SH_{38}	17.9	X	171.73963	45.95089	339.76566	7.27026	0.1303928	0.30136401	2.2033075	21	3 11.7	20.9
475465 2006 SX_{66}	18.6	X	184.01251	179.01450	175.98708	2.06356	0.1069313	0.29949280	2.2124754	21	2 11.4	21.6
475466 2006 SL_{73}	17.3	X	348.72481	259.61915	71.50009	2.98387	0.2263448	0.19185428	2.9772940	21	8 21.9	20.0
475467 2006 SL_{81}	18.2	X	178.06179	178.20406	180.81157	3.80263	0.1469911	0.29847418	2.2175064	21	2 13.1	21.4
475468 2006 SN_{83}	18.2	X	103.88867	51.16484	34.33897	4.89586	0.1578876	0.29697816	2.2249472	21	3 16.8	20.6
475469 2006 SU_{89}	16.6	X	274.60403	207.38696	203.10892	9.55776	0.1000530	0.18814360	3.0163130	21	8 10.9	21.0
475470 2006 ST_{92}	18.7	X	77.30590	241.38650	200.18883	5.62961	0.1307778	0.29029112	2.2589860	21	1 17.3	20.7
475471 2006 SC_{93}	17.2	X	331.38715	346.74879	21.64383	10.27210	0.1136549	0.19223189	2.9733937	21	9 15.6	20.7
475472 2006 SP_{116}	16.5	X	133.37175	172.55867	16.10485	8.36255	0.0573629	0.19128125	2.9832371	21	9 1.9	20.9
475473 2006 SD_{117}	17.3	X	3.13322	284.97527	24.30870	6.70447	0.1433020	0.19003968	2.9962165	21	8 20.9	20.7
475474 2006 SZ_{152}	18.3	X	39.74465	263.37664	204.84625	5.98678	0.1024651	0.29296327	2.2452288	21	—	—
475475 2006 SM_{158}	17.2	X	51.53961	329.31934	13.84688	5.99801	0.0508762	0.20608033	2.8386490	21	12 3.1	21.1
475476 2006 SM_{163}	17.2	X	335.88690	136.59300	198.08542	11.69257	0.1095438	0.18812774	3.0164826	21	7 31.7	21.1
475477 2006 SL_{169}	17.1	X	63.13817	85.65319	198.94946	10.38308	0.1071591	0.19979589	2.8978663	21	10 13.6	20.9
475478 2006 ST_{175}	18.7	X	174.18608	210.49296	173.97981	1.44320	0.1630365	0.30310865	2.1948449	21	3 15.9	21.9
475479 2006 SQ_{176}	16.9	X	151.42990	168.09613	3.83780	9.65380	0.0388387	0.19037846	2.9926608	21	8 31.2	21.3
475480 2006 SE_{185}	18.7	X	206.63447	325.39998	340.73167	0.75186	0.1670353	0.29436001	2.2381207	21	1 7.8	21.9
475481 2006 SR_{185}	17.0	X	342.60356	140.07326	203.71490	9.80589	0.1156522	0.19010844	2.9954940	21	8 24.8	20.6
475482 2006 SQ_{193}	17.5	X	56.21120	298.12525	339.70760	1.37078	0.1363191	0.19791133	2.9162334	21	9 29.7	21.4
475483 2006 SF_{212}	18.3	X	218.33179	265.06096	34.13632	7.85556	0.1303794	0.29369088	2.2415189	21	1 10.2	21.7
475484 2006 SE_{215}	17.9	X	212.49308	157.53115	174.14651	7.21097	0.2515095	0.30172833	2.2015336	21	2 13.0	21.8
475485 2006 SM_{226}	18.9	X	174.10702	49.87364	342.08342	8.34879	0.0978466	0.30321505	2.1943314	21	3 19.1	21.7
475486 2006 SX_{245}	17.0	X	319.06285	7.69251	26.63997	2.05939	0.1091358	0.19713644	2.9238703	21	9 27.8	20.4
475487 2006 SM_{252}	17.0	X	283.31376	42.40541	355.54774	2.74268	0.1148323	0.18940088	3.0029497	21	8 7.9	21.0
475488 2006 SP_{253}	17.4	X	310.06257	234.75558	154.78988	1.80293	0.1909058	0.19304398	2.9650490	21	8 26.1	20.6
475489 2006 SF_{258}	17.7	X	286.44125	30.58449	4.46506	0.77387	0.1874532	0.18818830	3.0158354	21	7 27.7	21.6
475490 2006 SS_{260}	17.0	X	337.30497	348.70663	1.36693	5.96034	0.1930496	0.19274525	2.9681118	21	8 25.5	19.9
475491 2006 SG_{263}	18.0	X	226.12318	339.11901	336.87936	6.71084	0.1403586	0.29956817	2.2121044	21	2 7.1	21.1
475492 2006 SZ_{264}	17.8	X	151.06321	23.97144	344.00759	6.15597	0.1531835	0.29324127	2.2438095	21	1 30.4	20.7
475493 2006 SL_{265}	18.1	X	144.80863	122.42284	270.67069	4.04438	0.1413272	0.29548273	2.2324478	21	2 20.2	21.0
475494 2006 SP_{265}	18.0	X	145.17652	123.81661	295.97737	4.03602	0.1214925	0.29951240	2.2123789	21	3 25.4	21.0
475495 2006 SH_{267}	16.6	X	188.84338	258.11884	236.22846	8.51160	0.0282394	0.18709563	3.0275660	21	8 21.1	21.2
475496 2006 SN_{268}	18.8	X	207.58795	73.43693	252.36721	3.70029	0.1825551	0.29819179	2.2189061	21	1 31.8	22.3
475497 2006 SV_{271}	18.2	X	115.92059	148.74459	278.32191	4.02223	0.1060977	0.29567180	2.2314960	21	2 23.5	20.8
475498 2006 SC_{286}	17.5	X	152.86391	226.67266	109.74789	6.90250	0.1240310	0.29045894	2.2581158	21	—	—
475499 2006 SU_{295}	16.8	X	301.50297	13.84066	0.12859	8.03126	0.0830348	0.19013333	2.9952325	21	8 8.9	20.7
475500 2006 SO_{301}	18.7	X	269.31206	213.92293	204.11551	21.95521	0.0618492	0.39002329	1.8552781	21	9 2.8	20.9
475501 2006 SW_{307}	17.8	X	190.13721	12.42954	340.86527	3.65170	0.1849396	0.29980950	2.2109171	21	2 21.0	21.2
475502 2006 SR_{310}	16.8	X	347.87561	109.34330	211.48725	8.52705	0.0643777	0.18901659	3.0070185	21	8 3.5	20.9
475503 2006 SR_{314}	16.3	X	253.72047	260.06577	180.45159	8.85885	0.0811331	0.19005164	2.9960908	21	8 27.4	20.6
475504 2006 SZ_{315}	18.0	X	59.22843	241.90300	18.41504	21.67999	0.0538473	0.39137027	1.8510188	21	9 25.8	19.7
475505 2006 SU_{325}	16.7	X	219.69277	271.66875	179.29024	3.00190	0.1390084	0.18355957	3.0663239	21	7 27.6	21.4
475506 2006 SV_{327}	17.3	X	337.57673	312.52346	62.68674	3.12404	0.1057287	0.19446985	2.9505379	21	10 3.7	20.7
475507 2006 SB_{329}	16.7	X	232.15111	322.47097	90.26208	2.72481	0.1565160	0.18066247	3.0990180	21	6 21.9	21.6
475508 2006 SW_{330}	18.5	X	138.98659	143.62920	217.61359	4.09987	0.1924079	0.29046967	2.2580602	21	1 10.7	21.3
475509 2006 SB_{336}	18.1	X	144.05680	308.88386	78.19727	3.63015	0.1643884	0.29558993	2.2319080	21	2 17.8	20.9
475510 2006 SY_{337}	18.1	X	179.22490	158.08387	154.81277	5.23349	0.2081495	0.29266329	2.2467627	21	—	—
475511 2006 SW_{342}	16.7	X	47.02570	115.79675	226.39780	9.12363	0.1010219	0.20291997	2.8680465	21	12 4.1	20.5
475512 2006 SJ_{347}	16.6	X	12.55108	61.74516	215.27307	3.68591	0.1889823	0.18720253	3.0264133	21	7 22.5	19.8
475513 2006 SS_{351}	19.2	X	116.20493	87.30424	17.98923	4.93650	0.2975175	0.30012705	2.2093573	21	5 16.5	22.3
475514 2006 ST_{351}	18.4	X	132.51225	350.81957	30.22324	4.90950	0.2445180	0.29279201	2.2461042	21	2 8.0	21.3
475515 2006 SB_{358}	16.8	X	307.98325	20.29663	26.39397	9.78864	0.0711559	0.19199560	2.9758328	21	10 1.6	20.7
475516 2006 SK_{364}	16.3	X	316.14197	333.81309	37.37829	10.14105	0.1254216	0.18591126	3.0404107	21	8 24.7	20.2
475517 2006 SJ_{367}	17.6	X	204.84969	248.17171	82.62695	9.94248	0.2147462	0.30032923	2.2083656	21	2 9.5	21.3
475518 2006 SC_{372}	18.9	X	265.66423	15.68599	37.98439	20.96224	0.0720345	0.38649111	1.8665647	21	9 9.6	21.1
475519 2006 SZ_{374}	16.7	X	214.27996	335.62240	147.71254	12.34560	0.0390086	0.19000683	2.9965618	21	9 11.6	21.0
475520 2006 SA_{382}	16.8	X	299.31755	328.55448	73.61571	10.63998	0.0673728	0.19179315	2.9779266	21	9 17.6	20.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
475521 2006 SJ_{386}	16.9	X	340.48761	230.15812	133.58398	11.77402	0.1039577	0.19201282	2.9756549	21	9 25.4	20.6
475522 2006 SE_{391}	17.1	X	1.09208	300.45904	28.25149	11.07762	0.1150620	0.19301591	2.9653365	21	9 13.9	20.7
475523 2006 ST_{394}	17.2	X	321.36593	184.80681	220.93735	1.16107	0.0607049	0.19947874	2.9009371	21	10 19.5	20.9
475524 2006 SL_{396}	17.2	X	344.61920	13.90253	321.81067	1.57006	0.2045583	0.19308658	2.9646129	21	8 18.1	20.0
475525 2006 SM_{397}	18.4	X	91.05435	82.19541	356.48212	4.40187	0.0977322	0.29265208	2.2468202	21	2 4.5	20.7
475526 2006 SG_{398}	16.5	X	286.40366	350.29537	53.07242	9.89430	0.0957760	0.18654778	3.0334907	21	8 26.5	20.7
475527 2006 SV_{398}	18.4	X	122.67192	185.10730	224.14426	2.91734	0.1585526	0.29509938	2.2343808	21	2 17.2	20.9
475528 2006 SX_{398}	16.8	X	359.27460	305.19717	344.31405	5.13454	0.2526541	0.19089930	2.9872151	21	7 14.8	19.4
475529 2006 SO_{403}	16.5	X	43.49736	274.71853	44.33099	12.36814	0.1817509	0.19622002	2.9329670	21	11 10.6	20.4
475530 2006 SB_{407}	18.2	X	167.81000	279.93509	75.14959	3.58869	0.2190601	0.29677915	2.2259417	21	2 6.5	21.5
475531 2006 SB_{411}	17.1	X	296.37938	25.07131	6.97241	8.68817	0.0966963	0.18891569	3.0080891	21	8 23.8	21.1
475532 2006 SD_{412}	17.1	X	293.79863	198.88083	216.09092	9.20933	0.1661988	0.18962229	3.0006116	21	9 2.5	21.1
475533 2006 SK_{412}	16.8	X	300.60705	7.22948	37.26478	9.70496	0.0572264	0.18939697	3.0029910	21	9 21.4	20.9
475534 2006 TS_{7}	21.2	X	267.50130	300.01694	225.17679	5.50152	0.5803810	1.07046759	0.9464268	21	—	—
475535 2006 TN_{10}	16.8	X	5.41593	79.40493	246.87204	4.86126	0.0772450	0.19392512	2.9560606	21	9 8.1	20.6
475536 2006 TO_{11}	16.5	X	288.15266	84.76549	3.73738	17.25619	0.1318780	0.19859684	2.9095188	21	10 13.8	20.2
475537 2006 TA_{15}	16.8	X	2.86510	138.05104	224.93673	5.37687	0.1117405	0.19831324	2.9122919	21	10 28.3	20.2
475538 2006 TD_{17}	17.8	X	112.58590	1.18509	30.24112	9.38948	0.1694816	0.28920342	2.2646465	21	1 15.3	20.4
475539 2006 TJ_{18}	16.9	X	278.33083	357.91095	45.01667	6.74776	0.1309077	0.18699784	3.0286214	21	8 7.1	21.1
475540 2006 TA_{19}	16.6	X	287.04632	188.77643	222.79689	12.98634	0.1584576	0.18880012	3.0093166	21	8 18.3	20.9
475541 2006 TB_{19}	18.0	X	133.65252	3.17454	18.25468	7.28156	0.1782665	0.29127112	2.2539162	21	2 1.6	20.9
475542 2006 TB_{26}	17.0	X	318.78032	8.66959	13.84499	1.61404	0.1332800	0.19112431	2.9848701	21	9 8.3	20.5
475543 2006 TB_{28}	16.8	X	301.43243	340.72867	41.47094	6.92611	0.2061987	0.18823977	3.0152856	21	8 1.0	20.6
475544 2006 TB_{30}	16.3	X	193.65279	80.26370	40.05255	11.60744	0.0463008	0.18414012	3.0598756	21	8 17.4	21.0
475545 2006 TG_{30}	17.8	X	223.53933	274.87249	40.67481	6.86443	0.0611117	0.29634409	2.2281198	21	2 6.1	20.8
475546 2006 TL_{41}	17.2	X	281.91598	47.34439	29.73957	3.60214	0.1714518	0.19104747	2.9856703	21	9 18.2	21.0
475547 2006 TR_{53}	17.6	X	133.36124	16.26844	53.46950	6.66304	0.1141005	0.29710536	2.2243121	21	3 29.3	20.4
475548 2006 TB_{54}	17.0	X	295.51554	7.19602	55.99194	10.13407	0.0741666	0.19152535	2.9807019	21	10 7.0	21.0
475549 2006 TR_{56}	17.6	X	73.83184	215.11804	218.15756	22.47006	0.2287113	0.28559708	2.2836710	21	1 5.3	19.9
475550 2006 TX_{59}	16.9	X	291.14927	1.71143	9.91267	4.64612	0.1676239	0.18408690	3.0604653	21	7 6.8	21.0
475551 2006 TG_{69}	16.7	X	326.85977	294.89357	115.26221	9.10827	0.2065793	0.19822819	2.9131249	21	11 1.1	19.7
475552 2006 TR_{72}	18.3	X	165.24232	36.66247	359.94260	3.03670	0.2161272	0.29968941	2.2115077	21	3 26.9	21.8
475553 2006 TL_{78}	18.3	X	25.77437	284.01800	37.41836	21.53248	0.0658795	0.39354969	1.8441787	21	11 4.2	19.5
475554 2006 TS_{79}	16.3	X	28.20677	38.24722	248.48509	8.22903	0.0151336	0.18582894	3.0413085	21	8 13.3	20.7
475555 2006 TB_{81}	18.6	X	167.70230	19.19672	351.58462	4.75572	0.1893173	0.29624816	2.2286007	21	2 23.4	21.9
475556 2006 TW_{82}	16.3	X	35.25815	57.86332	239.10921	10.16597	0.1130028	0.19165402	2.9793676	21	9 16.5	20.3
475557 2006 TB_{84}	16.8	X	356.99269	39.74582	326.29402	4.74102	0.0858372	0.19598156	2.9353456	21	10 18.9	20.5
475558 2006 TU_{88}	16.4	X	62.38357	186.74663	21.82314	6.58282	0.0243483	0.17656405	3.1467907	21	6 22.7	20.9
475559 2006 TM_{90}	16.8	X	293.07098	24.85459	35.81804	15.22247	0.1632929	0.18999092	2.9967291	21	9 20.5	20.7
475560 2006 TP_{93}	16.4	X	15.74610	130.44446	228.36892	7.03545	0.1193067	0.19880823	2.9074560	21	11 13.4	19.8
475561 2006 TK_{96}	17.5	X	195.64441	4.71244	334.44861	5.83434	0.2633477	0.29859065	2.2169297	21	2 11.9	21.3
475562 2006 TA_{100}	18.2	X	81.02632	188.07076	261.92743	2.84075	0.1225455	0.29182717	2.2510522	21	2 5.0	20.1
475563 2006 TO_{103}	16.7	X	289.67025	206.60290	209.20865	9.12455	0.1453327	0.18985991	2.9981076	21	9 1.0	20.8
475564 2006 TY_{112}	17.0	X	339.25414	248.81597	155.58338	12.55996	0.0439744	0.19889398	2.9066203	21	11 16.2	21.0
475565 2006 TZ_{121}	17.5	X	294.51254	56.00466	342.00497	0.87866	0.2088100	0.18874453	3.0099074	21	8 8.9	21.2
475566 2006 TE_{122}	18.4	X	120.98179	311.01106	48.07650	4.39472	0.1762871	0.28642879	2.2792481	21	—	—
475567 2006 TH_{123}	17.4	X	313.77435	346.76461	10.84907	0.46226	0.1736603	0.18587785	3.0407751	21	7 21.4	21.0
475568 2006 TF_{126}	17.3	X	310.43825	101.02294	310.44085	3.37774	0.0826756	0.19381476	2.9571827	21	10 6.7	21.0
475569 2006 TZ_{126}	18.0	X	55.52739	13.83438	54.07930	6.39896	0.1283708	0.28319507	2.2965659	21	—	—
475570 2006 TS_{127}	18.2	X	158.93971	102.85726	199.34761	5.15107	0.2237504	0.28602895	2.2813717	21	—	—
475571 2006 TV_{128}	17.2	X	331.51674	256.48154	124.56040	2.67080	0.1021959	0.19494807	2.9457106	21	10 1.5	20.8
475572 2006 UH	17.7	X	150.96492	44.20269	342.70816	9.79280	0.2021283	0.29640326	2.2278233	21	2 28.2	20.7
475573 2006 UC_{10}	18.3	X	126.76882	214.78668	199.53849	5.80645	0.1962617	0.29302914	2.2448923	21	3 7.3	21.1
475574 2006 UJ_{10}	17.4	X	69.67856	81.46521	39.69614	8.29126	0.0409155	0.29685750	2.2255500	21	2 27.5	19.9
475575 2006 UG_{13}	18.6	X	165.43733	161.90466	184.98849	1.66157	0.1984309	0.29231613	2.2485413	21	1 21.9	21.8
475576 2006 UO_{27}	17.2	X	310.04356	36.74541	28.97649	0.64605	0.1271817	0.19658912	2.9292947	21	10 22.8	20.8
475577 2006 UT_{27}	18.4	X	131.25119	178.31500	217.70749	1.64062	0.1630257	0.29325664	2.2437311	21	2 12.0	21.2
475578 2006 UW_{27}	16.9	X	329.54018	359.84572	28.05972	11.16974	0.1094843	0.19452302	2.9500002	21	10 7.7	20.3
475579 2006 UC_{29}	16.8	X	1.92730	331.12750	16.30435	1.72228	0.1090321	0.19474767	2.9477312	21	10 5.7	20.2
475580 2006 UP_{32}	17.3	X	306.87189	143.20614	219.97906	2.49743	0.2325869	0.18738183	3.0244824	21	7 7.6	20.9
475581 2006 UU_{32}	18.2	X	137.14184	168.33320	210.52279	3.61823	0.1506654	0.29148611	2.2528078	21	1 25.3	21.1
475582 2006 UO_{33}	18.3	X	156.03775	279.13314	35.74445	4.18918	0.2407556	0.28734598	2.2743954	21	—	—
475583 2006 UN_{34}	17.1	X	326.86347	16.77718	51.44687	2.64129	0.0426832	0.20094220	2.8868349	21	11 25.9	20.8
475584 2006 UX_{37}	16.8	X	343.38592	66.95703	303.50045	0.84928	0.1363801	0.19329578	2.9624735	21	10 4.9	20.0
475585 2006 UY_{39}	16.9	X	266.35954	184.11737	222.40934	8.80619	0.0930253	0.18439623	3.0570416	21	7 27.3	21.3
475586 2006 UA_{42}	17.0	X	338.55309	172.91233	191.26926	1.09436	0.1005086	0.19042256	2.9921988	21	9 18.3	20.6
475587 2006 UR_{42}	16.9	X	312.68543	245.13171	156.74255	1.94871	0.0773283	0.19140124	2.9819902	21	9 29.9	20.7
475588 2006 UX_{42}	17.3	X	290.20223	279.03629	171.96728	2.09980	0.0542435	0.19616588	2.9335066	21	11 3.3	21.0
475589 2006 UX_{45}	17.9	X	136.64739	356.62766	60.74213	5.84130	0.1036862	0.29534131	2.2331604	21	3 15.3	20.7
475590 2006 UG_{46}	16.5	X	330.18486	94.93981	222.09135	21.26655	0.1007188	0.18069359	3.0986621	21	6 28.4	20.8
475591 2006 UR_{50}	18.0	X	178.47784	315.96578	6.77945	7.76457	0.1617971	0.29202702	2.2500251	21	1 2.3	21.3
475592 2006 UE_{60}	17.9	X	174.12878	21.33748	309.15932	3.91567	0.2137195	0.29263284	2.2469186	21	1 11.8	21.2
475593 2006 UW_{60}	16.9	X	246.75904	58.78177	7.57944	3.85327	0.1244246	0.18223398	3.0811757	21	7 28.8	21.4
475594 2006 UX_{73}	17.9	X	93.44062	182.40412	289.84337	3.28124	0.1052345	0.29893811	2.2152115	21	3 26.3	20.4
475595 2006 UH_{77}	16.7	X	292.48109	159.13139	230.57091	9.71034	0.0836206	0.18755291	3.0226429	21	8 9.7	21.0
475596 2006 UU_{79}	17.4	X	308.14445	290.99777	92.60145	2.17008	0.1353405	0.18990664	2.9976157	21	8 23.0	21.1
475597 2006 UY_{81}	17.8	X	27.68257	94.07316	3.94093	6.27573	0.1367603	0.28241593	2.3007879	21	—	—
475598 2006 UW_{84}	16.8	X	324.61889	298.70634	49.36368	10.08930	0.2500043	0.18737100	3.0245990	21	7 19.0	20.1
475599 2006 UR_{86}	16.7	X	353.17596	322.43738	46.14074	20.72409	0.0410353	0.19286813	2.9668510	21	10 21.7	20.7
475600 2006 UP_{87}	16.6	X	321.01551	317.26533	45.69648	5.84395	0.1552558	0.18674910	3.0313101	21	8 15.8	20.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
475601 2006 UC_{91}	17.7	X	63.97987	33.79800	35.70851	6.41333	0.1384671	0.28313579	2.2968865	21	—	—
475602 2006 UV_{92}	17.7	X	132.43979	348.61620	44.21663	7.58883	0.1186918	0.29277461	2.2461932	21	2 6.7	20.5
475603 2006 UU_{117}	16.9	X	279.63841	182.47265	206.96494	8.94257	0.0282383	0.18551346	3.0447555	21	8 1.0	21.3
475604 2006 UA_{128}	17.1	X	283.59655	165.24560	244.88697	3.39038	0.0153007	0.18866260	3.0107787	21	9 5.1	21.2
475605 2006 UE_{129}	18.2	X	128.94328	198.42676	235.88492	2.63401	0.0622933	0.29864571	2.2166571	21	3 17.2	20.7
475606 2006 UV_{130}	17.4	X	338.67097	15.05968	332.02748	1.39263	0.1905392	0.19089658	2.9872434	21	8 22.2	20.5
475607 2006 UL_{133}	16.8	X	300.92027	151.17087	214.81427	11.31660	0.1069589	0.18483502	3.0522016	21	7 18.9	21.0
475608 2006 UJ_{135}	16.9	X	323.60391	146.04302	203.38667	8.21063	0.2237271	0.18846913	3.0128388	21	7 18.6	20.3
475609 2006 UJ_{136}	16.8	X	245.65982	75.63044	21.93141	10.07566	0.0573507	0.18840064	3.0135690	21	9 16.2	21.1
475610 2006 UX_{137}	16.7	X	35.41509	327.34456	19.36946	11.37423	0.1069021	0.19871545	2.9083609	21	11 21.6	20.7
475611 2006 UC_{139}	17.7	X	70.49474	80.28275	15.93577	7.35087	0.0576080	0.29006600	2.2601547	21	1 24.7	20.2
475612 2006 UN_{144}	16.0	X	350.71135	118.36414	241.18947	10.96557	0.1314783	0.19180990	2.9777532	21	9 28.9	19.6
475613 2006 UV_{154}	17.3	X	334.84556	8.67213	14.90572	7.17298	0.1496458	0.19465933	2.9486229	21	10 7.8	20.5
475614 2006 UZ_{158}	17.0	X	286.13509	7.63090	58.56700	6.03935	0.0531554	0.19344564	2.9609433	21	9 29.2	21.0
475615 2006 UK_{165}	17.7	X	272.07597	116.53962	73.87137	4.19184	0.1052697	0.28055695	2.3109401	21	—	—
475616 2006 UD_{167}	16.4	X	229.36354	21.40977	51.32039	10.48240	0.0267317	0.18380708	3.0635706	21	7 29.8	20.9
475617 2006 UM_{167}	17.1	X	29.37992	236.62851	110.84273	3.22030	0.0593768	0.19958237	2.8999328	21	11 11.9	21.0
475618 2006 UF_{168}	16.2	X	4.75934	271.15795	45.37430	10.56283	0.0990210	0.19019869	2.9945463	21	9 3.4	20.0
475619 2006 UT_{168}	16.9	X	346.36338	271.91616	113.75228	3.20735	0.0787617	0.19788636	2.9164787	21	10 31.9	20.6
475620 2006 UC_{170}	17.2	X	246.04242	249.18829	188.51127	9.12320	0.1331441	0.18543972	3.0455627	21	8 6.9	21.8
475621 2006 UN_{173}	17.0	X	284.01199	289.15742	102.72014	2.54649	0.1631634	0.18382519	3.0633694	21	7 23.8	21.2
475622 2006 UP_{180}	18.0	X	160.99881	261.91497	109.91471	5.37165	0.1778078	0.29541942	2.2327668	21	2 17.7	21.1
475623 2006 US_{186}	16.2	X	22.16163	314.87799	31.78177	15.60622	0.1585694	0.20252217	2.8718010	21	11 10.7	19.8
475624 2006 UO_{192}	16.0	X	311.68987	359.42010	20.40516	16.25961	0.2503797	0.18984097	2.9983069	21	8 14.4	19.7
475625 2006 UF_{198}	17.8	X	155.45823	183.67582	209.44235	4.82413	0.2219821	0.29656953	2.2269905	21	3 12.8	21.2
475626 2006 UF_{199}	18.1	X	71.59244	54.77138	48.13745	4.30851	0.1420239	0.29013739	2.2597839	21	2 13.4	20.1
475627 2006 UN_{199}	18.7	X	335.11453	179.06128	189.87399	21.42725	0.0720782	0.39796913	1.8305003	21	10 28.1	19.8
475628 2006 UD_{213}	16.9	X	312.57396	50.30286	337.26884	2.14973	0.1925386	0.18880329	3.0092829	21	8 27.3	20.2
475629 2006 UC_{216}	18.3	X	157.70665	134.63905	256.64425	0.97136	0.2143652	0.29766320	2.2215322	21	3 12.7	21.6
475630 2006 UL_{219}	15.9	X	210.66713	269.78555	215.21262	25.41500	0.2069130	0.18520255	3.0481622	21	8 18.5	21.5
475631 2006 UW_{223}	15.5	X	54.67426	53.58115	242.71324	11.05226	0.1344138	0.19712682	2.9239655	21	10 18.6	19.6
475632 2006 UZ_{235}	17.2	X	358.79652	319.79389	35.28706	2.33935	0.0803691	0.19539883	2.9411787	21	10 9.6	20.8
475633 2006 UX_{236}	16.9	X	184.94395	303.27940	181.04299	3.89975	0.0057241	0.18504589	3.0498823	21	8 7.0	21.1
475634 2006 UD_{240}	16.0	X	11.92715	9.15457	256.04733	2.75974	0.0747834	0.18013079	3.1051130	21	6 29.7	19.9
475635 2006 UD_{241}	16.5	X	237.75003	214.57376	220.54800	12.60075	0.1313440	0.18017131	3.1046475	21	7 24.1	21.5
475636 2006 UQ_{241}	16.8	X	352.23468	322.01011	19.31007	3.09807	0.1262415	0.18843685	3.0131829	21	9 11.6	20.3
475637 2006 UY_{241}	16.7	X	320.17698	169.22652	214.59057	9.08189	0.1037253	0.19294864	2.9660256	21	9 11.8	20.5
475638 2006 UN_{252}	17.4	X	288.06485	173.17128	216.30624	5.11214	0.1281036	0.18629831	3.0361982	21	7 29.8	21.5
475639 2006 UH_{254}	16.9	X	329.57075	213.97691	221.97303	15.81129	0.0424292	0.20129653	2.8834462	21	12 9.3	20.8
475640 2006 UV_{254}	16.6	X	319.78358	283.11602	45.26367	10.32645	0.0935651	0.18129773	3.0917745	21	7 2.2	20.7
475641 2006 US_{255}	16.9	X	331.48082	180.12784	224.76075	11.16420	0.0987821	0.19542300	2.9409361	21	10 31.5	20.5
475642 2006 UC_{261}	16.5	X	195.31576	210.79758	224.00253	9.32961	0.0711498	0.17487872	3.1669757	21	6 16.4	21.3
475643 2006 UL_{264}	17.0	X	4.27875	12.96752	16.90816	10.45191	0.0944866	0.20302218	2.8670839	21	12 1.9	20.8
475644 2006 UP_{264}	18.2	X	107.84574	24.49217	38.97862	3.65913	0.1419686	0.29341694	2.2429139	21	2 16.7	20.5
475645 2006 UK_{265}	18.6	X	102.44394	254.64490	174.57295	1.96247	0.1928898	0.29216709	2.2493059	21	2 23.3	20.9
475646 2006 UN_{266}	16.4	X	193.08361	55.60885	51.42949	14.83405	0.0362966	0.18131488	3.0915794	21	7 29.8	21.2
475647 2006 UA_{270}	16.1	X	240.28485	188.54914	247.50384	8.89163	0.1301938	0.18221518	3.0813877	21	7 29.1	20.9
475648 2006 UJ_{279}	16.7	X	239.28013	211.88427	217.40330	9.62976	0.0850970	0.18227609	3.0807012	21	7 24.6	21.5
475649 2006 UF_{282}	18.4	X	82.65650	26.54745	65.71864	3.76484	0.1304681	0.29058158	2.2574804	21	2 15.9	20.5
475650 2006 UH_{284}	18.2	X	112.19597	47.68418	36.60368	3.59995	0.0753812	0.29638443	2.2279176	21	3 13.1	20.7
475651 2006 UN_{285}	17.1	X	0.95863	341.22088	27.66143	2.00943	0.1039403	0.19608663	2.9342969	21	11 1.1	20.7
475652 2006 UH_{289}	16.9	X	14.94836	300.97044	15.67441	12.51350	0.1592436	0.19208877	2.9748705	21	9 23.2	20.3
475653 2006 UP_{289}	17.2	X	306.23154	148.35465	252.65402	3.08472	0.2028028	0.18994780	2.9971827	21	8 31.4	20.8
475654 2006 UL_{334}	16.7	X	300.44668	17.61615	52.47662	18.38091	0.1804938	0.19198062	2.9759877	21	10 13.5	20.4
475655 2006 UD_{337}	16.7	X	6.08197	94.79023	233.97767	11.29103	0.1145215	0.18797050	3.0181646	21	9 11.8	20.6
475656 2006 UW_{339}	16.7	X	195.24116	74.22670	37.26348	5.17917	0.0852941	0.18095530	3.0956738	21	8 2.7	21.5
475657 2006 UX_{339}	18.4	X	193.55890	86.37151	231.28405	3.40004	0.2132922	0.29331265	2.2434455	21	1 12.1	22.0
475658 2006 UR_{341}	17.3	X	267.72898	93.28377	23.72746	2.16294	0.0532518	0.19707179	2.9245098	21	11 5.6	21.2
475659 2006 UU_{346}	16.2	X	3.69831	287.06716	56.19557	9.99320	0.0847792	0.19024168	2.9940952	21	10 5.3	20.0
475660 2006 UJ_{360}	17.9	X	56.62594	56.24453	18.12647	5.66902	0.1265664	0.28285173	2.2984241	21	—	—
475661 2006 VG_{9}	16.9	X	280.22553	332.08099	62.46220	6.68996	0.2481236	0.18516910	3.0485292	21	7 9.9	21.2
475662 2006 VA_{10}	16.5	X	35.40387	90.32646	233.13627	7.74661	0.1826218	0.19696023	2.9256140	21	11 5.3	20.1
475663 2006 VF_{10}	16.6	X	325.56087	301.21500	56.05726	2.74852	0.2355707	0.18918720	3.0052104	21	8 4.8	19.5
475664 2006 VH_{12}	18.1	X	84.45422	245.23666	188.01376	2.06629	0.1551189	0.28707850	2.2758079	21	1 23.4	20.1
475665 2006 VY_{13}	17.1	X	317.01839	17.61238	139.86876	4.67268	0.6136481	0.19738255	2.9214394	21	—	—
475666 2006 VQ_{16}	16.5	X	29.25250	284.92203	46.49569	10.67079	0.0715862	0.19366391	2.9587180	21	10 23.8	20.3
475667 2006 VU_{16}	16.9	X	284.83315	15.46354	40.82149	3.71030	0.1298610	0.18752263	3.0229683	21	9 1.8	20.9
475668 2006 VR_{18}	18.3	X	199.27387	317.04265	4.99762	2.87488	0.1951183	0.29419625	2.2389512	21	1 22.9	21.8
475669 2006 VV_{23}	16.8	X	315.82787	174.19153	220.09036	5.60828	0.1429678	0.19035441	2.9929130	21	9 15.5	20.3
475670 2006 VQ_{27}	16.2	X	10.19859	87.77243	240.82841	8.86653	0.1138913	0.18956261	3.0012414	21	9 19.5	20.0
475671 2006 VK_{28}	16.8	X	277.79152	55.15457	48.08598	10.82499	0.0680121	0.19346758	2.9607194	21	10 31.4	20.8
475672 2006 VE_{41}	16.5	X	346.19792	248.13352	59.60763	10.03018	0.1586654	0.18303806	3.0721455	21	7 14.3	20.1
475673 2006 VQ_{44}	16.2	X	275.60841	314.34049	58.34005	13.75007	0.1754341	0.18132913	3.0914175	21	6 15.1	20.7
475674 2006 VE_{46}	17.3	X	294.57555	162.45996	280.39108	2.54304	0.1317499	0.19409160	2.9543700	21	10 18.4	21.0
475675 2006 VF_{46}	18.7	X	164.98157	47.61772	303.17019	1.60528	0.1769378	0.29168672	2.2517747	21	1 24.8	21.9
475676 2006 VH_{53}	18.3	X	83.93302	143.74074	313.67226	3.69471	0.0656712	0.29212910	2.2495009	21	2 14.1	20.7
475677 2006 VA_{55}	17.2	X	304.63072	290.14426	63.08211	9.85931	0.1416881	0.18212747	3.0823769	21	7 5.6	21.2
475678 2006 VO_{58}	17.4	X	331.72717	147.03961	81.40496	6.72042	0.0482933	0.29557821	2.2319670	21	3 1.0	20.0
475679 2006 VH_{59}	16.9	X	276.83668	0.34488	74.31050	6.40812	0.1308844	0.18813237	3.0164331	21	9 16.3	21.0
475680 2006 VZ_{63}	18.2	X	197.22655	325.52845	64.34677	3.68372	0.1656509	0.30215534	2.1994590	21	4 15.8	21.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
475681 2006 VY_{64}	17.0	X	279.11830	231.29722	188.17340	0.78906	0.1428228	0.18546862	3.0452462	21	8 24.9	20.9
475682 2006 VC_{72}	18.2	X	89.46676	15.67371	65.27479	3.85830	0.1154743	0.28931302	2.2640746	21	2 8.9	20.4
475683 2006 VE_{79}	17.7	X	137.26305	306.67546	74.86623	7.47070	0.1133411	0.28975524	2.2617704	21	1 26.8	20.5
475684 2006 VL_{80}	18.1	X	76.56375	352.61357	93.47205	5.00891	0.0923427	0.28805718	2.2706503	21	1 21.6	20.3
475685 2006 VG_{81}	15.9	X	342.08386	261.20050	75.99859	12.04280	0.1756192	0.18562687	3.0435153	21	8 20.6	19.4
475686 2006 VA_{88}	16.3	X	336.43218	34.43881	254.32761	8.51677	0.0715226	0.17600257	3.1534797	21	6 6.8	20.2
475687 2006 VB_{91}	18.3	X	40.74548	177.41294	277.06746	3.82221	0.1748569	0.28260533	2.2997598	21	—	—
475688 2006 VD_{93}	16.6	X	226.82849	14.91570	72.39306	18.25698	0.1757525	0.18022633	3.1040155	21	7 30.8	21.8
475689 2006 VP_{93}	16.0	X	148.25365	75.66017	67.64782	14.20862	0.0174977	0.17815968	3.1279737	21	7 18.8	20.6
475690 2006 VD_{97}	18.3	X	129.09021	143.95951	272.97048	0.69333	0.1179757	0.29633947	2.2281430	21	3 2.9	20.9
475691 2006 VD_{98}	17.6	X	92.26258	349.71588	63.02801	8.22355	0.1845953	0.28598364	2.2816127	21	1 13.9	19.7
475692 2006 VQ_{102}	16.1	X	245.14378	192.41662	232.78125	16.89998	0.2024571	0.18041095	3.1018976	21	7 11.8	21.3
475693 2006 VV_{105}	16.7	X	350.87288	304.59332	50.83640	10.86810	0.1151903	0.19089623	2.9872471	21	10 2.7	20.4
475694 2006 VB_{108}	18.4	X	149.40457	323.94129	30.85045	4.03338	0.2620716	0.28991604	2.2609340	21	1 24.9	21.7
475695 2006 VO_{112}	17.0	X	264.25723	106.15078	302.18022	6.62309	0.3269667	0.18297155	3.0728900	21	6 30.4	21.9
475696 2006 VY_{113}	17.7	X	65.83361	89.65674	26.85486	3.73889	0.0767770	0.29305061	2.2447826	21	2 15.5	19.8
475697 2006 VN_{115}	18.5	X	105.17160	25.57900	64.67945	3.79957	0.0756018	0.29484887	2.2356462	21	3 12.3	20.9
475698 2006 VK_{117}	16.4	X	328.78139	300.02576	53.19779	10.19983	0.1432245	0.18632026	3.0359596	21	8 19.8	20.1
475699 2006 VV_{117}	18.3	X	206.38890	62.77062	254.68945	2.11347	0.2235357	0.29393652	2.2402699	21	1 23.1	22.0
475700 2006 VR_{118}	16.5	X	181.28068	63.77105	57.04532	16.96291	0.1544303	0.17640268	3.1487095	21	8 1.1	21.9
475701 2006 VU_{120}	17.2	X	279.32489	207.92765	239.83819	8.93345	0.0725280	0.19182614	2.9775851	21	10 9.1	21.3
475702 2006 VS_{124}	16.6	X	257.16420	352.08310	53.61205	10.75658	0.1603371	0.18002954	3.1062771	21	7 9.6	21.3
475703 2006 VS_{128}	18.1	X	171.29394	13.31904	302.40536	3.89133	0.1810888	0.28639771	2.2794130	21	—	—
475704 2006 VN_{130}	18.6	X	181.40396	118.81673	223.38602	3.89434	0.1788907	0.29267237	2.2467163	21	1 28.9	22.0
475705 2006 VU_{133}	16.4	X	344.68202	76.89697	265.28478	7.39065	0.1087921	0.18559104	3.0439070	21	8 25.4	20.1
475706 2006 VB_{137}	16.7	X	70.29203	175.99629	63.86119	19.21744	0.0349353	0.18024926	3.1037523	21	8 22.8	21.4
475707 2006 VG_{142}	19.3	X	345.04098	154.38782	226.46976	6.70908	0.3683579	0.19669889	2.9282048	21	11 4.1	20.6
475708 2006 VC_{161}	17.7	X	353.84599	203.77089	184.16747	1.89563	0.0768996	0.20248687	2.8721347	21	11 14.9	21.1
475709 2006 VF_{170}	17.5	X	163.31853	100.71295	248.63841	5.53230	0.1586811	0.28878327	2.2668426	21	1 18.5	20.6
475710 2006 VL_{170}	17.9	X	33.29622	13.44651	89.07194	6.19117	0.1863934	0.27821001	2.3239184	21	—	—
475711 2006 VN_{171}	18.1	X	137.31017	298.12860	48.59875	7.04780	0.1442690	0.28410313	2.2916698	21	—	—
475712 2006 VR_{171}	17.6	X	61.26537	358.02932	118.35484	4.58282	0.1290668	0.28893498	2.2660490	21	2 11.4	19.5
475713 2006 VN_{173}	16.8	X	222.14922	4.88440	75.42983	12.17630	0.0489718	0.17929707	3.1147313	21	7 27.2	21.4
475714 2006 WB_{4}	17.6	X	99.49910	81.41357	351.90022	8.05315	0.0843152	0.29211651	2.2495655	21	2 9.4	20.0
475715 2006 WL_{4}	18.4	X	3.69521	266.32630	54.57655	22.80751	0.0920057	0.38849201	1.8601501	21	10 13.7	20.2
475716 2006 WF_{10}	16.3	X	9.78916	112.23632	224.64793	15.19875	0.2057569	0.19194827	2.9763220	21	10 11.6	19.7
475717 2006 WG_{10}	17.0	X	283.40445	318.80780	122.59628	5.39926	0.1462523	0.19009379	2.9956479	21	10 1.0	20.9
475718 2006 WJ_{10}	17.0	X	291.81074	165.64054	213.44593	9.06560	0.1909210	0.18342879	3.0677812	21	7 11.4	21.3
475719 2006 WV_{10}	18.0	X	178.38356	245.45048	248.89606	18.27984	0.0674877	0.38282789	1.8784530	21	8 11.6	20.7
475720 2006 WK_{29}	17.4	X	118.71395	119.27154	241.63967	45.77887	0.1402262	0.28356464	2.2945701	21	—	—
475721 2006 WW_{30}	18.5	X	114.65365	4.83174	20.50528	3.46148	0.1687250	0.28668013	2.2779157	21	1 8.8	20.8
475722 2006 WQ_{31}	18.5	X	94.69670	323.82335	109.74596	2.61334	0.1710962	0.28945346	2.2633422	21	2 14.8	20.7
475723 2006 WG_{33}	17.1	X	300.92577	358.06155	74.61277	11.00269	0.0749670	0.19344259	2.9609744	21	10 26.9	21.0
475724 2006 WR_{36}	16.7	X	343.59113	132.44438	211.31091	10.07327	0.0652695	0.18575074	3.0421621	21	8 26.7	20.8
475725 2006 WD_{38}	16.4	X	320.90876	356.00163	75.99995	12.52021	0.0765739	0.19714050	2.9238302	21	11 22.2	20.0
475726 2006 WN_{38}	17.9	X	46.98196	197.87963	250.12271	4.31186	0.1935672	0.28234535	2.3011713	21	—	—
475727 2006 WT_{38}	16.9	X	357.14909	302.31555	75.20401	9.90730	0.1969146	0.19546471	2.9405178	21	11 16.1	19.9
475728 2006 WS_{39}	17.1	X	264.23578	281.80833	127.92673	2.20948	0.1804503	0.18160524	3.0882833	21	7 19.2	21.6
475729 2006 WB_{44}	18.5	X	70.85810	346.76129	127.69810	3.21781	0.1749634	0.29067120	2.2570164	21	3 5.4	20.3
475730 2006 WV_{46}	16.2	X	99.50193	308.83451	269.79674	7.32015	0.0073419	0.18101705	3.0949697	21	8 17.4	20.6
475731 2006 WC_{47}	17.2	X	343.71562	115.88390	254.48355	12.59608	0.2868218	0.19283045	2.9672375	21	9 30.3	19.9
475732 2006 WQ_{54}	18.0	X	144.09014	303.68910	67.98777	6.18533	0.1228832	0.28758834	2.2731174	21	1 23.8	20.9
475733 2006 WJ_{67}	18.2	X	161.75858	174.21409	204.66245	5.31288	0.1647084	0.29370330	2.2414557	21	2 23.3	21.5
475734 2006 WG_{71}	17.0	X	37.15350	69.17247	248.21401	7.40817	0.0559923	0.19176159	2.9782533	21	10 9.9	21.1
475735 2006 WZ_{74}	16.8	X	17.80466	96.24675	247.75650	9.45803	0.0690079	0.19257095	2.9699026	21	10 18.9	20.8
475736 2006 WO_{77}	16.7	X	281.71522	11.76368	55.16112	2.92251	0.1587187	0.18763694	3.0217404	21	9 6.6	20.6
475737 2006 WC_{79}	16.9	X	296.12642	121.50752	273.84158	4.96164	0.1889219	0.18593998	3.0400976	21	8 9.0	20.8
475738 2006 WN_{83}	16.5	X	297.02122	295.56372	91.07968	10.41793	0.0750844	0.18298396	3.0727510	21	8 20.5	20.7
475739 2006 WX_{88}	17.7	X	145.03904	312.82533	101.51779	5.22298	0.1650033	0.29515933	2.2340782	21	3 28.7	20.8
475740 2006 WK_{89}	16.8	X	297.61999	117.90953	287.65282	5.94114	0.1775114	0.18576023	3.0420585	21	8 25.9	20.6
475741 2006 WV_{93}	17.7	X	309.98359	320.84349	95.77737	2.95080	0.2726324	0.19152775	2.9806770	21	9 22.2	20.8
475742 2006 WX_{96}	17.4	X	292.71538	75.54946	337.87539	0.71945	0.2934883	0.18770331	3.0210281	21	8 12.8	21.3
475743 2006 WK_{97}	18.3	X	146.92577	325.96349	48.73114	1.47560	0.1382428	0.29022675	2.2593201	21	2 1.1	21.2
475744 2006 WD_{99}	17.2	X	294.97073	178.31246	231.96793	3.81452	0.2145512	0.18753341	3.0228524	21	8 22.9	21.1
475745 2006 WM_{99}	18.4	X	115.00895	289.78835	66.88275	5.98025	0.1815842	0.28194855	2.3033299	21	—	—
475746 2006 WN_{102}	18.8	X	137.47168	129.26460	240.56671	4.05176	0.2210178	0.28854563	2.2680870	21	1 24.2	21.8
475747 2006 WR_{105}	17.0	X	279.74512	285.90382	84.53799	4.11015	0.1727186	0.17962722	3.1109135	21	6 18.8	21.3
475748 2006 WT_{111}	18.3	X	139.61891	153.70049	203.98585	1.38113	0.2428002	0.28708894	2.2757528	21	1 14.9	21.4
475749 2006 WG_{127}	15.8	X	250.53334	113.76565	296.48270	15.68035	0.1414386	0.17125634	3.2114779	21	7 10.3	20.6
475750 2006 WU_{128}	17.3	X	331.35012	117.37659	255.21728	7.20859	0.2760034	0.19075876	2.9886821	21	8 31.4	20.1
475751 2006 WS_{132}	16.6	X	35.58016	56.44350	236.05329	0.56403	0.0599983	0.18562927	3.0434890	21	9 7.9	20.6
475752 2006 WG_{134}	16.7	X	354.26124	317.66437	23.06210	10.16480	0.1147881	0.19068541	2.9894485	21	9 16.9	20.2
475753 2006 WL_{137}	17.9	X	349.89781	316.83829	235.88284	3.55846	0.0708997	0.29073774	2.2566720	21	1 28.9	20.3
475754 2006 WJ_{141}	18.2	X	200.85321	230.05530	99.74088	3.79893	0.1645942	0.29395301	2.2401861	21	2 1.5	21.6
475755 2006 WX_{152}	16.4	X	351.63500	301.83231	89.20714	15.84814	0.2004805	0.19639439	2.9312307	21	11 25.8	19.5
475756 2006 WB_{153}	15.9	X	294.10297	123.63462	290.60721	20.18664	0.0262555	0.18071498	3.0984176	21	9 11.6	20.7
475757 2006 WO_{153}	15.9	X	268.76136	284.39666	100.96111	17.72166	0.1485869	0.17246384	3.1964703	21	6 28.2	20.5
475758 2006 WY_{160}	16.6	X	338.31928	103.43242	227.66060	10.31662	0.1099833	0.18730693	3.0252886	21	7 30.4	20.5
475759 2006 WJ_{161}	17.1	X	326.37902	114.77098	228.86289	3.29996	0.1774984	0.18527946	3.0473186	21	7 22.9	20.6
475760 2006 WB_{163}	18.6	X	129.38391	296.91118	105.08090	2.81864	0.1546289	0.29142381	2.2531288	21	2 18.5	21.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
475761 2006 WF_{163}	16.0	X	119.60342	315.25166	225.67444	8.71137	0.0238355	0.17863456	3.1224277	21	7 27.7	20.6
475762 2006 WW_{163}	16.7	X	264.76402	315.70770	86.47814	6.32972	0.1259046	0.18140197	3.0905900	21	7 18.3	21.1
475763 2006 WE_{171}	17.1	X	233.01150	329.36156	104.32597	2.43983	0.1405954	0.17867408	3.1219673	21	7 20.3	21.9
475764 2006 WM_{171}	16.3	X	281.52875	118.38806	237.03579	8.40493	0.0963012	0.17574403	3.1565717	21	6 13.1	20.8
475765 2006 WS_{173}	16.4	X	175.96266	284.12978	238.69124	10.08533	0.0626153	0.18486960	3.0518209	21	9 9.1	21.2
475766 2006 WG_{182}	16.4	X	6.51646	261.33669	72.64594	10.65925	0.1217180	0.18816353	3.0161001	21	10 1.4	20.2
475767 2006 WV_{183}	17.5	X	45.71166	1.62276	88.76703	7.75926	0.1371533	0.27766818	2.3269406	21	—	—
475768 2006 WZ_{188}	16.4	X	249.45293	179.81460	241.16685	8.71380	0.0538289	0.17928806	3.1148357	21	7 29.9	21.0
475769 2006 WC_{189}	16.3	X	324.03812	143.11338	243.79648	9.26746	0.1310455	0.18932851	3.0037149	21	9 18.3	20.0
475770 2006 WE_{192}	18.1	X	38.38774	231.80662	240.66217	1.49507	0.1834853	0.28289978	2.2981638	21	—	—
475771 2006 WQ_{192}	17.5	X	259.24297	268.15598	134.72770	0.10708	0.1936902	0.17959022	3.1113409	21	7 3.5	22.3
475772 2006 WT_{193}	16.6	X	291.86511	337.99175	89.38090	11.82113	0.1123399	0.18531193	3.0469627	21	10 3.6	20.8
475773 2006 WC_{195}	15.9	X	176.91135	230.41936	234.14460	15.17018	0.2116090	0.17218659	3.1999007	21	7 2.3	21.5
475774 2006 WY_{199}	18.3	X	144.39110	147.75528	257.70818	2.72859	0.1905505	0.29369631	2.2414913	21	3 14.8	21.5
475775 2006 WS_{200}	16.2	X	279.27035	170.12464	287.71350	8.18102	0.0353622	0.18782877	3.0196826	21	10 25.4	20.5
475776 2006 WA_{201}	18.1	X	131.24872	123.06396	282.67221	2.68307	0.2104366	0.28733716	2.2744419	21	3 4.1	21.2
475777 2006 WJ_{201}	15.9	X	117.87406	283.52929	259.56787	14.50803	0.0572956	0.17597015	3.1538670	21	7 30.1	20.7
475778 2006 WA_{203}	16.3	X	178.20984	39.58335	87.83796	18.10213	0.1437741	0.17437435	3.1730798	21	8 4.7	21.6
475779 2006 WR_{203}	18.2	X	59.31681	172.77835	257.66964	6.09958	0.0839342	0.28105171	2.3082272	21	—	—
475780 2006 WZ_{204}	18.0	X	165.81253	270.90492	83.36959	7.45115	0.1501743	0.28903299	2.2655367	21	1 29.4	21.2
475781 2006 XU_{1}	16.8	X	255.25915	234.17219	225.10804	10.22237	0.3245874	0.18377146	3.0639665	21	8 19.1	21.9
475782 2006 XN_{2}	15.6	X	171.35286	268.70746	257.95336	24.93719	0.1708696	0.18033384	3.1027817	21	8 30.5	21.3
475783 2006 XR_{2}	16.7	X	281.07545	326.47077	61.34102	12.62481	0.0759410	0.18121494	3.0927161	21	7 30.7	21.1
475784 2006 XA_{13}	16.0	X	103.91569	301.30524	262.15888	17.09295	0.1145181	0.17587590	3.1549937	21	8 12.3	21.0
475785 2006 XV_{15}	17.0	X	243.13494	238.01344	205.74744	0.58623	0.1657932	0.17893438	3.1189388	21	8 9.4	21.7
475786 2006 XJ_{16}	17.5	X	44.33139	179.28706	298.43076	6.30485	0.0705840	0.28248494	2.3004132	21	1 12.9	19.8
475787 2006 XP_{20}	16.7	X	281.09921	335.09589	103.62531	6.95594	0.1628268	0.18483918	3.0521557	21	9 22.2	20.8
475788 2006 XR_{20}	16.0	X	256.75120	187.19792	275.89268	23.49089	0.2221960	0.18392398	3.0622723	21	8 28.1	21.1
475789 2006 XL_{23}	15.7	X	24.92806	26.22113	237.81381	22.50702	0.0777413	0.17613910	3.1518499	21	7 11.9	20.2
475790 2006 XV_{24}	15.9	X	253.26805	177.40108	260.45712	16.09219	0.2138778	0.18170974	3.0870992	21	8 1.6	20.9
475791 2006 XQ_{29}	17.0	X	326.52196	139.99900	243.80392	8.71666	0.1597061	0.18848691	3.0126494	21	9 16.3	20.5
475792 2006 XN_{31}	16.5	X	325.66357	316.37341	70.54420	10.75886	0.1453460	0.18838240	3.0137635	21	9 30.9	20.1
475793 2006 XW_{34}	18.2	X	51.77318	165.14043	295.88114	4.72443	0.1263426	0.28235007	2.3011457	21	1 1.1	20.1
475794 2006 XD_{35}	16.3	X	248.08515	171.16234	268.37501	4.33399	0.1468922	0.17886469	3.1197489	21	8 10.4	21.0
475795 2006 XU_{36}	15.9	X	114.89599	81.06130	99.40566	19.89692	0.1056974	0.16901261	3.2398381	21	8 4.1	20.9
475796 2006 XW_{38}	16.0	X	257.43248	126.13546	286.98215	16.95891	0.1419620	0.17564206	3.1577934	21	7 19.4	20.6
475797 2006 XP_{43}	16.7	X	305.33475	117.68517	299.62960	9.39176	0.3079709	0.18821279	3.0155738	21	9 1.4	20.2
475798 2006 XH_{54}	16.2	X	266.20482	21.02576	78.00715	16.56897	0.1433137	0.18623724	3.0368618	21	10 7.2	20.7
475799 2006 XM_{56}	16.5	X	176.50457	36.38766	106.36876	14.12689	0.1511277	0.17328189	3.1864023	21	8 22.0	21.8
475800 2006 XJ_{62}	16.3	X	304.59852	71.33232	289.64934	14.35568	0.2573414	0.17882972	3.1201556	21	6 28.1	20.2
475801 2006 XM_{62}	18.3	X	105.32584	316.25788	90.33098	4.51398	0.1623305	0.28328012	2.2961063	21	1 24.3	20.7
475802 Zurek	16.6	X	295.59824	138.21704	246.75616	8.65410	0.1391273	0.17284222	3.1918036	21	7 31.1	21.0
475803 2006 XV_{69}	16.0	X	209.90322	211.96570	292.72178	11.06102	0.1659800	0.18102473	3.0948821	21	9 14.6	21.1
475804 2006 XT_{72}	17.6	X	277.85606	6.04778	66.06155	2.16980	0.2389720	0.18282244	3.0745605	21	8 26.0	21.7
475805 2006 YJ_{1}	17.7	X	111.35082	337.21088	72.74242	6.73609	0.1730954	0.28636830	2.2795691	21	2 10.4	20.3
475806 2006 YV_{4}	16.3	X	266.47364	191.30823	232.28574	10.89865	0.0736928	0.18511556	3.0491171	21	8 19.3	20.8
475807 2006 YZ_{15}	18.4	X	335.82805	248.36574	83.53724	23.44534	0.0848002	0.38207593	1.8809168	21	8 27.3	20.4
475808 2006 YU_{18}	16.0	X	251.52980	98.59848	318.35130	18.72446	0.1598041	0.17242862	3.1969056	21	7 19.9	20.9
475809 2006 YH_{27}	16.6	X	223.53471	187.92308	291.75477	6.47690	0.1048266	0.18028943	3.1032913	21	9 5.7	21.3
475810 2006 YN_{28}	16.6	X	208.72235	152.63521	300.79600	10.53032	0.1830483	0.17287663	3.1913800	21	7 18.5	21.8
475811 2006 YZ_{28}	18.0	X	49.43017	71.05367	26.91808	3.10549	0.1534352	0.28004049	2.3137805	21	—	—
475812 2006 YK_{30}	17.9	X	92.58190	94.42349	308.31114	5.71453	0.1170530	0.27923837	2.3182094	21	—	—
475813 2006 YH_{52}	18.1	X	25.54021	119.68646	319.02808	6.04886	0.1016704	0.27196596	2.3593535	21	—	—
475814 2006 YL_{52}	18.3	X	54.41439	354.95507	95.80124	4.12782	0.1381908	0.27874308	2.3209546	21	—	—
475815 2006 YB_{54}	16.2	X	267.41554	112.89360	305.51388	9.00530	0.0571810	0.17683767	3.1435438	21	8 18.8	20.6
475816 2006 YT_{55}	17.1	X	6.12711	171.57998	315.45503	24.29428	0.1935929	0.27222871	2.3578351	21	—	—
475817 2007 AX_{6}	15.2	X	152.26490	220.75828	304.01974	16.87425	0.1679718	0.17190668	3.2033733	21	8 19.7	20.6
475818 2007 AS_{9}	15.8	X	201.03377	154.12071	300.56209	6.64058	0.1559093	0.17089566	3.2159949	21	7 14.2	21.1
475819 2007 AR_{11}	17.6	X	293.81452	256.03600	299.04312	5.45706	0.0676068	0.27295919	2.3536266	21	—	—
475820 2007 AB_{13}	17.7	X	78.94937	315.38984	85.50340	5.33058	0.2294377	0.28061142	2.3106411	21	—	—
475821 2007 AY_{16}	16.2	X	225.92705	349.88989	111.98143	17.11645	0.1132676	0.17600511	3.1534494	21	8 22.1	21.1
475822 2007 AS_{20}	16.6	X	265.86245	25.50106	63.89627	4.22594	0.2084477	0.18108228	3.0942264	21	9 7.6	21.0
475823 2007 AF_{21}	17.6	X	83.57070	314.00476	136.14567	5.91113	0.1046447	0.28148045	2.3058828	21	2 11.3	19.9
475824 2007 AC_{23}	16.6	X	324.72985	213.39621	190.17227	2.33866	0.2325921	0.18786986	3.0192423	21	10 8.9	19.5
475825 2007 AF_{26}	18.1	X	182.98913	329.14533	120.36399	24.00393	0.0774694	0.37047847	1.9199683	21	6 21.6	20.7
475826 2007 AU_{30}	17.8	X	62.67606	318.22656	110.47290	8.73231	0.0827851	0.27744298	2.3281996	21	—	—
475827 2007 BM	15.8	X	172.86192	65.31044	112.26731	27.20644	0.2366172	0.17786683	3.1314062	21	10 6.5	21.7
475828 2007 BU_{3}	16.0	X	251.13676	144.03667	296.42081	27.39247	0.1678122	0.17812460	3.1283844	21	8 6.8	20.9
475829 2007 BF_{4}	16.0	X	221.55257	188.66200	324.28083	10.55677	0.0787824	0.18420161	3.0591946	21	10 15.1	20.7
475830 2007 BS_{6}	17.7	X	111.92678	248.10488	303.28808	17.84171	0.0828803	0.37311554	1.9109111	21	8 15.5	19.8
475831 2007 BB_{12}	17.2	X	166.20207	310.46917	329.69371	14.20824	0.1312960	0.26269016	2.4145721	21	—	—
475832 2007 BE_{12}	17.9	X	96.48276	55.57925	351.41266	6.02939	0.1628240	0.27872382	2.3210616	21	1 12.1	20.2
475833 2007 BU_{12}	17.4	X	282.55849	30.74963	46.07159	1.80142	0.2534186	0.18281512	3.0746426	21	9 4.9	21.3
475834 2007 BY_{13}	16.9	X	196.19026	86.32185	45.98227	1.76256	0.1173459	0.17358283	3.1827183	21	8 26.5	21.8
475835 2007 BG_{14}	16.0	X	350.38346	27.13126	323.16231	10.09953	0.1428512	0.17858156	3.1230454	21	9 14.9	19.6
475836 2007 BB_{18}	15.7	X	290.04064	276.17677	132.73785	23.74855	0.2021476	0.17991815	3.1075591	21	8 17.9	19.7
475837 2007 BF_{24}	17.8	X	201.71120	291.82577	300.75610	1.07101	0.1186614	0.26113836	2.4241283	21	—	—
475838 2007 BM_{26}	16.4	X	175.25890	220.50258	308.88556	6.47344	0.1377851	0.17711000	3.1403206	21	9 16.4	21.5
475839 2007 BN_{34}	17.9	X	342.12040	40.18659	127.13154	2.77777	0.1494570	0.27622280	2.3350510	21	—	—
475840 2007 BX_{40}	16.1	X	271.15533	291.46019	132.10997	16.53875	0.2230789	0.17711361	3.1402780	21	8 8.1	20.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
475841 2007 BV_{42}	16.5	X	256.78232	326.38645	124.55894	11.81675	0.0965368	0.17912538	3.1167213	21	9 15.7	21.0
475842 2007 BS_{43}	17.7	X	19.56241	148.58127	327.80030	2.83427	0.1902939	0.27399741	2.3476773	21	—	—
475843 2007 BS_{44}	18.2	X	52.26429	114.21199	330.21704	2.97234	0.0715034	0.27672374	2.3322321	21	—	—
475844 2007 BT_{44}	18.5	X	37.08985	325.84121	307.62193	14.98073	0.0993350	0.37581972	1.9017336	21	8 31.7	20.2
475845 2007 BZ_{46}	16.4	X	284.33177	86.60173	345.02781	8.08577	0.1639826	0.17967310	3.1103840	21	9 12.8	20.6
475846 2007 BY_{47}	18.0	X	56.23165	8.59117	93.11343	3.69734	0.0575804	0.27682567	2.3316596	21	1 10.9	20.4
475847 2007 BG_{48}	17.7	X	352.08773	28.90401	121.00383	8.89417	0.0975698	0.27276214	2.3547600	21	—	—
475848 2007 BK_{48}	18.0	X	88.76912	333.51298	92.00858	4.33664	0.1752954	0.27898588	2.3196079	21	1 26.9	20.0
475849 2007 BC_{55}	15.9	X	343.77446	51.62440	290.54281	14.43837	0.1915639	0.17811620	3.1284828	21	8 18.6	19.4
475850 2007 BR_{55}	16.1	X	150.24067	218.42225	319.09752	14.93272	0.1598424	0.17263074	3.1944098	21	9 2.5	21.5
475851 2007 BD_{56}	15.9	X	254.92183	126.05033	324.24897	9.62855	0.1783871	0.17873632	3.1212425	21	8 27.8	20.5
475852 2007 BE_{57}	15.8	X	267.45697	347.21366	119.99367	14.88641	0.0985400	0.18366039	3.0652016	21	10 22.7	20.3
475853 2007 BO_{57}	17.7	X	111.84555	90.85932	337.46089	6.83907	0.1474044	0.28587515	2.2821899	21	3 1.7	20.2
475854 2007 BD_{60}	16.4	X	262.17669	144.04041	337.76221	11.52962	0.1500524	0.18488819	3.0516164	21	10 14.9	20.8
475855 2007 BZ_{60}	16.0	X	19.41632	42.47760	298.67451	14.92081	0.0494951	0.18418250	3.0594061	21	10 8.5	20.5
475856 2007 BZ_{64}	17.9	X	106.11961	256.22547	149.79017	5.94316	0.1605491	0.27843871	2.3226457	21	1 24.2	20.5
475857 2007 BJ_{68}	16.4	X	213.92435	316.63723	151.06825	14.73795	0.0375655	0.17020791	3.2246523	21	8 19.4	21.1
475858 2007 BQ_{76}	16.0	X	210.60668	149.75805	299.75239	10.32827	0.0278679	0.17173283	3.2055349	21	7 24.6	20.7
475859 2007 BB_{77}	16.1	X	237.75250	160.52133	312.00350	13.12762	0.0181737	0.17757305	3.1348590	21	9 19.9	20.8
475860 2007 BT_{79}	16.1	X	212.53133	178.19931	307.63504	8.23283	0.0406946	0.17350023	3.1837284	21	9 6.5	20.8
475861 2007 BU_{86}	16.3	X	295.39269	92.12220	311.41182	9.41547	0.1611934	0.17942638	3.1132347	21	8 22.4	20.4
475862 2007 BH_{100}	18.5	X	99.56207	55.85346	2.08552	2.22417	0.1562493	0.28104611	2.3082579	21	1 30.8	20.8
475863 2007 CG_{1}	15.7	X	198.96253	45.83484	140.04462	17.88539	0.1550499	0.18176084	3.0865205	21	11 4.6	20.9
475864 2007 CA_{3}	18.3	X	93.22793	229.00788	186.48910	2.08741	0.1923643	0.27955949	2.3164338	21	1 21.4	20.4
475865 2007 CU_{3}	16.3	X	219.40575	144.44156	326.95689	11.50496	0.0917815	0.17521094	3.1629712	21	8 25.2	20.9
475866 2007 CM_{7}	18.1	X	31.97137	144.18448	331.13865	5.19283	0.1030843	0.27821624	2.3238837	21	—	—
475867 2007 CU_{12}	17.4	X	92.21113	124.53700	323.28560	6.14250	0.0701121	0.28323697	2.2963395	21	2 15.9	19.7
475868 2007 CZ_{12}	17.4	X	76.40617	244.78696	311.49484	18.49825	0.0371402	0.36647876	1.9339126	21	6 27.9	19.4
475869 2007 CB_{16}	17.7	X	6.56410	106.61630	78.99893	4.66982	0.1392484	0.28202357	2.3029214	21	2 11.5	19.8
475870 2007 CJ_{26}	17.9	X	17.73069	43.02049	74.85215	4.65128	0.1832536	0.27514720	2.3411325	21	—	—
475871 2007 CA_{29}	17.6	X	70.67496	300.13793	128.95155	8.40575	0.1629581	0.27843546	2.3226638	21	—	—
475872 2007 CO_{31}	18.3	X	66.28563	146.17423	314.22837	0.59731	0.1382910	0.28109051	2.3080148	21	1 29.9	20.2
475873 2007 CJ_{34}	16.0	X	352.82570	46.42848	319.33162	8.66456	0.0645772	0.17920688	3.1157763	21	10 6.7	20.2
475874 2007 CB_{35}	16.2	X	197.28655	159.09419	330.97340	14.72530	0.1971956	0.17141284	3.2095229	21	8 21.1	21.6
475875 2007 CT_{35}	17.9	X	350.82977	165.83985	320.99215	3.30194	0.1299040	0.27058454	2.3673769	21	—	—
475876 2007 CD_{36}	16.9	X	227.70127	15.46222	123.08144	3.04424	0.1422911	0.18128349	3.0919364	21	10 3.6	21.5
475877 2007 CN_{43}	18.5	X	77.78296	298.48473	170.38590	2.13991	0.1715566	0.28415180	2.2914081	21	3 10.1	20.4
475878 2007 CN_{45}	16.4	X	274.40715	128.05722	327.42268	12.11632	0.2025327	0.18400127	3.0614147	21	9 20.4	20.8
475879 2007 CP_{45}	17.2	X	347.49829	164.01691	334.77449	6.59259	0.0606476	0.27135469	2.3628954	21	—	—
475880 2007 CC_{49}	16.2	X	200.07555	201.87553	292.62359	8.10304	0.0384141	0.17341256	3.1848014	21	9 2.5	21.0
475881 2007 CV_{50}	16.4	X	227.88365	359.37578	134.78993	6.64208	0.1948102	0.18015465	3.1048389	21	9 24.1	21.3
475882 2007 CB_{57}	16.5	X	258.32173	110.71209	346.36137	14.83429	0.2779822	0.18181867	3.0858660	21	8 30.4	21.2
475883 2007 CH_{57}	15.9	X	172.02816	192.12353	337.80274	16.46653	0.1709301	0.17555156	3.1588784	21	9 13.5	21.1
475884 2007 CB_{62}	17.2	X	91.35743	244.29997	304.89513	18.57543	0.0989565	0.36673536	1.9330104	21	7 21.2	19.0
475885 2007 CK_{63}	15.8	X	245.30444	332.11452	150.24526	18.96193	0.1784577	0.18034609	3.1026413	21	9 30.7	20.6
475886 2007 CP_{65}	16.2	X	241.76852	98.08647	49.98780	6.41459	0.1996747	0.18324464	3.0698361	21	10 23.1	20.7
475887 2007 CE_{66}	18.0	X	27.42077	349.51606	152.66681	5.10776	0.0838782	0.27599534	2.3363337	21	1 20.1	20.4
475888 2007 DM_{2}	16.6	X	258.66783	96.27490	30.62269	3.41405	0.2304122	0.18497762	3.0506327	21	10 11.3	21.1
475889 2007 DR_{4}	16.6	X	273.00560	71.68194	67.94196	9.15174	0.3662819	0.19025585	2.9939465	21	10 27.6	20.7
475890 2007 DF_{26}	16.6	X	258.65109	89.80817	346.48120	23.48435	0.2319086	0.17437574	3.1730629	21	8 16.1	21.6
475891 2007 DT_{27}	17.7	X	335.56496	25.48868	108.38051	2.87108	0.1439117	0.26594920	2.3948055	21	—	—
475892 2007 DA_{28}	16.3	X	232.39390	112.99970	354.91380	15.48837	0.0687114	0.17205835	3.2014905	21	9 9.1	21.0
475893 2007 DJ_{31}	17.9	X	12.72353	349.82774	136.07782	2.45537	0.1682989	0.27240877	2.3567960	21	—	—
475894 2007 DH_{34}	17.8	X	44.44516	80.43500	356.40120	4.61337	0.1899645	0.27018408	2.3697155	21	—	—
475895 2007 DU_{39}	15.7	X	152.91826	213.23137	294.16374	14.87766	0.0543406	0.16985620	3.2291022	21	7 28.6	20.5
475896 2007 DV_{40}	16.5	X	207.55068	184.02805	318.66040	11.67682	0.0905711	0.17585076	3.1552944	21	9 16.2	21.4
475897 2007 DF_{45}	16.5	X	303.72650	86.12931	325.60900	11.75178	0.1611530	0.17970028	3.1100703	21	9 13.4	20.3
475898 2007 DM_{49}	17.2	X	357.57176	305.07182	164.78549	22.85542	0.2928720	0.26968453	2.3726410	21	—	—
475899 2007 DF_{50}	17.6	X	332.11550	41.19127	127.11694	2.93199	0.1353295	0.27158835	2.3615399	21	—	—
475900 2007 DA_{54}	16.1	X	297.66066	267.42857	123.47691	26.50857	0.2205047	0.17957311	3.1115385	21	8 1.8	20.1
475901 2007 DU_{59}	16.8	X	249.42989	150.67504	355.85226	4.40992	0.2463383	0.18496789	3.0507397	21	10 21.4	21.5
475902 2007 DG_{60}	16.1	X	233.71584	141.67761	321.40318	5.28431	0.1197372	0.17360050	3.1825023	21	8 27.5	20.8
475903 2007 DK_{63}	18.3	X	38.16036	84.55555	145.88615	25.00395	0.0514497	0.36445981	1.9410481	21	6 20.9	20.7
475904 2007 DN_{70}	18.1	X	41.87199	285.58893	147.49280	2.92125	0.1658129	0.26873843	2.3782063	21	—	—
475905 2007 DO_{76}	17.5	X	249.62602	34.36534	201.50461	1.77255	0.1390879	0.26504255	2.4002638	21	—	—
475906 2007 DQ_{80}	18.5	X	57.74634	313.21519	136.99539	3.21914	0.1449235	0.27588795	2.3369400	21	—	—
475907 2007 DS_{81}	17.4	X	322.94260	205.14381	335.55744	14.49277	0.1659107	0.27028177	2.3691445	21	—	—
475908 2007 DW_{82}	17.1	X	257.46627	297.54231	168.94736	11.61393	0.3054908	0.18016508	3.1047190	21	9 4.4	21.8
475909 2007 DP_{88}	17.1	X	269.72532	108.08901	356.21620	9.78351	0.2348511	0.18250553	3.0781187	21	9 24.5	21.3
475910 2007 DQ_{92}	18.9	X	199.44842	116.23851	339.91536	20.01626	0.0893192	0.37128344	1.9171922	21	7 27.8	21.4
475911 2007 DZ_{94}	15.8	X	213.00125	105.40542	11.35352	12.15549	0.1194134	0.16992426	3.2282398	21	8 27.8	20.9
475912 2007 DJ_{95}	17.5	X	110.05653	71.78364	6.18243	8.49257	0.1796408	0.28310893	2.2970318	21	3 19.5	20.1
475913 2007 DK_{104}	16.8	X	31.60543	97.43233	62.88212	22.75455	0.2360963	0.28204505	2.3028045	21	3 8.5	19.1
475914 2007 DR_{110}	15.7	X	293.36109	345.86009	349.12924	8.94541	0.0669545	0.15686477	3.4050156	21	6 6.1	20.5
475915 2007 DR_{116}	17.4	X	53.83684	110.01686	8.97112	23.70407	0.1985569	0.27919032	2.3184753	21	2 21.9	19.7
475916 2007 DO_{117}	15.8	X	271.87127	65.13810	16.71588	18.39175	0.1850864	0.17240130	3.1972434	21	9 12.9	20.4
475917 2007 EG_{1}	16.4	X	230.17518	321.91131	146.17261	12.81786	0.1252132	0.17561601	3.1581056	21	8 30.9	21.2
475918 2007 EG_{4}	16.3	X	324.89854	244.29419	148.34094	14.29033	0.1637777	0.18078061	3.0976677	21	10 2.3	19.9
475919 2007 EE_{15}	18.0	X	50.73099	235.30465	218.76570	0.51240	0.1482143	0.27504696	2.3417012	21	—	—
475920 2007 EG_{17}	17.3	X	355.50850	152.77489	350.40274	4.68967	0.1911295	0.27075309	2.3663943	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
475921 2007 EV_{29}	17.7	X	294.30894	173.47256	25.50437	5.49869	0.0582129	0.26699052	2.3885747	21	—	—
475922 2007 EZ_{41}	17.7	X	235.55982	36.16183	173.78998	1.58893	0.1258306	0.25610654	2.4557770	21	—	—
475923 2007 ET_{43}	18.3	X	251.86358	219.25777	308.22458	0.79318	0.1466446	0.25305507	2.4754796	21	12 16.7	21.2
475924 2007 EM_{45}	18.1	X	42.63750	122.05837	15.65821	2.41174	0.1311713	0.27613833	2.3355271	21	2 10.9	20.1
475925 2007 EB_{46}	18.1	X	257.50552	226.80460	357.00877	0.54502	0.1369333	0.26213679	2.4179690	21	—	—
475926 2007 EA_{51}	16.2	X	228.76577	137.41221	348.86450	14.27186	0.1725530	0.17555034	3.1588931	21	9 14.5	21.0
475927 2007 EH_{51}	17.1	X	337.98088	178.44670	321.25700	5.55608	0.1678177	0.26612981	2.3937220	21	—	—
475928 2007 EK_{65}	17.4	X	51.79817	81.17476	16.41762	8.84842	0.2086616	0.27455049	2.3445234	21	—	—
475929 2007 EN_{68}	16.2	X	244.09801	126.43537	354.29552	13.81860	0.1474499	0.17821926	3.1272766	21	9 25.7	20.8
475930 2007 EQ_{72}	18.1	X	42.44576	311.41100	163.27529	4.09364	0.1099894	0.27311606	2.3527253	21	1 6.5	20.3
475931 2007 EL_{80}	16.4	X	248.71455	112.85541	326.10507	12.58645	0.1704707	0.17408614	3.1765809	21	8 9.9	21.2
475932 2007 ET_{87}	17.9	X	122.47635	21.48612	182.02407	26.49630	0.0614735	0.37247305	1.9131079	21	9 20.8	20.0
475933 2007 EL_{92}	17.9	X	197.32279	127.15434	91.17874	2.53503	0.1259047	0.25364320	2.4716515	21	12 18.5	21.5
475934 2007 EC_{93}	16.5	X	277.20550	85.27526	327.62598	9.20465	0.0810368	0.17244431	3.1967117	21	8 22.3	21.0
475935 2007 ER_{112}	16.4	X	219.93644	296.49693	192.70009	13.18328	0.2540405	0.17234650	3.1979211	21	9 1.4	22.0
475936 2007 EO_{115}	18.0	X	203.41880	25.56261	23.12565	20.56805	0.0878280	0.35665284	1.9692715	21	5 6.9	20.6
475937 2007 EQ_{122}	18.1	X	3.82121	217.03369	348.08921	8.80808	0.2533163	0.34822781	2.0009078	21	1 29.3	19.4
475938 2007 EA_{128}	17.6	X	116.26058	239.38351	174.62794	4.06301	0.2035806	0.27960854	2.3161629	21	2 25.7	20.2
475939 2007 EB_{132}	17.7	X	78.33124	104.55468	1.95856	2.37689	0.1951074	0.28051831	2.3111524	21	3 12.6	19.7
475940 2007 EL_{148}	17.7	X	185.97472	129.73346	130.23405	4.82260	0.1069634	0.25571451	2.4582863	21	—	—
475941 2007 ES_{162}	17.7	X	75.10607	215.60371	174.96916	6.27588	0.1122926	0.26787262	2.3833281	21	—	—
475942 2007 EX_{170}	18.7	X	250.13394	87.85400	341.49154	17.33414	0.0930728	0.37644459	1.8996285	21	8 22.6	20.5
475943 2007 EV_{173}	16.2	X	260.23403	283.99855	190.33952	19.46917	0.2918437	0.18019307	3.1043975	21	9 17.3	21.0
475944 2007 EG_{179}	18.1	X	308.98682	219.03664	328.52001	1.70583	0.1582059	0.26493123	2.4009361	21	—	—
475945 2007 EN_{189}	17.9	X	337.72636	318.65405	188.45230	5.87129	0.0771956	0.26703499	2.3883095	21	—	—
475946 2007 EK_{192}	17.5	X	276.37951	167.08653	30.91548	2.52566	0.1583218	0.26241462	2.4162620	21	—	—
475947 2007 ER_{218}	16.2	X	209.80498	126.76536	8.13667	17.01294	0.1785058	0.17223625	3.1992856	21	9 11.5	21.5
475948 2007 EV_{219}	16.2	X	218.57913	289.97361	190.27408	9.16317	0.2381162	0.16939622	3.2349450	21	8 22.1	21.8
475949 2007 EA_{224}	17.7	X	131.54773	85.19137	158.70995	4.42441	0.1844920	0.23773130	2.5807452	21	11 15.7	21.9
475950 2007 FE_{1}	18.7	X	326.42021	193.23589	44.74795	9.84266	0.5474132	0.34354048	2.0190672	21	—	—
475951 2007 FG_{32}	16.1	X	195.95861	312.48952	199.98518	13.83370	0.1763630	0.17040863	3.2221196	21	9 13.4	21.4
475952 2007 FU_{35}	17.1	X	324.81604	205.88101	338.70086	23.89689	0.2341537	0.26837064	2.3803786	21	—	—
475953 2007 GR_{4}	17.0	X	96.93123	188.90904	63.40871	14.36794	0.3138872	0.23169728	2.6253594	21	11 5.9	21.6
475954 2007 GV_{13}	16.4	X	259.05145	77.26648	13.49570	15.28195	0.2051536	0.17359565	3.1825617	21	9 5.0	21.2
475955 2007 GL_{17}	17.6	X	137.13735	11.82348	227.78596	9.15364	0.1528205	0.23794697	2.5791856	21	11 13.6	21.6
475956 2007 GF_{19}	17.9	X	336.55930	64.88772	213.77202	20.58899	0.0738532	0.35275777	1.9837411	21	5 10.9	19.5
475957 2007 GD_{30}	18.0	X	308.05987	147.73418	12.40940	6.76880	0.0877700	0.26118409	2.4238454	21	—	—
475958 2007 GQ_{64}	17.8	X	273.46966	316.93499	246.77255	1.71213	0.1439804	0.25859227	2.4400142	21	—	—
475959 2007 GX_{68}	17.2	X	85.84453	341.75679	15.37450	6.27176	0.0792351	0.25578301	2.4578474	21	—	—
475960 2007 HP_{3}	16.1	X	62.83721	275.55777	32.36765	28.75294	0.3463852	0.23209432	2.6223644	21	12 7.4	20.8
475961 2007 HV_{16}	17.7	X	289.80107	207.33558	9.47785	7.88965	0.0392207	0.26731603	2.3866352	21	—	—
475962 2007 HR_{59}	17.7	X	178.11345	172.86780	43.47976	5.71896	0.1115180	0.24281804	2.5445760	21	11 24.9	21.4
475963 2007 HG_{63}	15.6	X	136.35964	113.60868	49.37542	10.62505	0.0916129	0.15604438	3.4169395	21	8 5.8	20.9
475964 2007 HW_{70}	17.4	X	120.39903	203.10262	48.10572	14.29841	0.1887981	0.23566090	2.5958387	21	11 13.3	21.5
475965 2007 HQ_{71}	17.6	X	135.61090	204.34278	62.98814	1.88889	0.0700159	0.24305236	2.5429402	21	12 15.3	21.2
475966 2007 JV	16.9	X	84.23034	228.19240	100.88079	17.95008	0.1702051	0.23928355	2.5695722	21	—	—
475967 2007 JF_{22}	16.2	X	220.47713	125.38803	47.70885	25.36270	0.5864248	0.18316790	3.0706935	21	10 15.1	22.6
475968 2007 JV_{28}	17.2	X	90.08771	217.54292	56.54597	14.47298	0.2456946	0.23109226	2.6299397	21	11 18.4	21.5
475969 2007 JC_{36}	17.4	X	117.53166	182.48901	83.49335	9.76619	0.2249105	0.23571808	2.5954189	21	11 30.9	21.9
475970 2007 JM_{36}	17.3	X	120.75210	305.47924	357.95813	3.97028	0.2249461	0.24146684	2.5540598	21	—	—
475971 2007 KR_{1}	17.2	X	158.23862	86.19666	176.07775	12.06436	0.2602508	0.24182872	2.5515111	21	12 26.4	21.9
475972 2007 LP_{22}	17.5	X	147.06226	11.76331	217.91388	6.85084	0.1269488	0.23613032	2.5923972	21	11 10.4	21.6
475973 2007 LZ_{27}	17.9	X	83.95848	121.14734	165.78102	12.72226	0.2171298	0.23123248	2.6288763	21	11 28.2	22.3
475974 2007 NM_{2}	17.1	X	72.25662	54.26721	268.31101	10.97962	0.2730074	0.22831295	2.6512398	21	12 31.8	21.5
475975 2007 NK_{3}	16.2	X	69.81834	21.65839	305.67088	12.85239	0.2556807	0.22725006	2.6595003	21	—	—
475976 2007 NL_{6}	16.9	X	44.16342	335.59159	358.51817	13.27088	0.2662700	0.22465288	2.6799584	21	12 17.1	20.9
475977 2007 OO_{6}	16.8	X	82.75795	188.83144	119.89907	14.72166	0.2524544	0.22930161	2.6436136	21	12 24.0	21.2
475978 2007 OE_{11}	17.4	X	9.25005	27.38399	14.15433	6.78952	0.3154753	0.21612022	2.7500406	21	—	—
475979 2007 PM_{4}	17.4	X	70.51037	256.71599	55.94479	27.98226	0.4029399	0.22512023	2.6762481	21	12 26.3	22.5
475980 2007 PG_{16}	16.9	X	76.24480	195.41313	145.00155	14.34177	0.2668267	0.22826421	2.6516173	21	—	—
475981 2007 PR_{18}	17.4	X	40.95732	213.44523	152.34100	8.41978	0.3854860	0.22441523	2.6818501	21	—	—
475982 2007 PN_{19}	16.8	X	84.93935	174.28889	140.91594	8.72962	0.2179374	0.22934614	2.6432714	21	12 29.9	21.2
475983 2007 PN_{21}	16.3	X	55.50431	337.55744	330.66129	12.62183	0.1681424	0.22020906	2.7158926	21	11 9.6	20.3
475984 2007 PO_{23}	16.4	X	67.97338	63.55949	285.43060	11.50166	0.2869370	0.22890429	2.6466718	21	—	—
475985 2007 PR_{27}	17.2	X	17.61018	130.35755	237.74767	5.47663	0.0478335	0.22285341	2.6943656	21	11 24.2	20.5
475986 2007 PZ_{33}	16.8	X	36.51470	22.00791	340.31355	7.34822	0.2473823	0.22308628	2.6924903	21	—	—
475987 2007 PC_{36}	16.7	X	35.11525	233.16544	155.58422	9.64384	0.3776605	0.22511310	2.6763046	21	—	—
475988 2007 PB_{37}	16.7	X	113.06487	351.00349	305.88720	13.84831	0.2427501	0.23210911	2.6222530	21	—	—
475989 2007 PZ_{42}	16.8	X	69.45290	193.71152	145.64690	13.41268	0.1797591	0.22761593	2.6566496	21	—	—
475990 2007 PD_{43}	17.0	X	95.54214	336.05981	324.08195	12.84624	0.2521933	0.22859930	2.6490254	21	12 24.4	21.6
475991 2007 PF_{47}	17.6	X	36.77641	246.29345	153.92575	13.43022	0.2874222	0.22721489	2.6597747	21	—	—
475992 2007 QU_{8}	16.8	X	36.19542	175.95253	160.84069	10.22484	0.2280759	0.22107415	2.7088029	21	12 6.9	20.5
475993 2007 RF	16.9	X	326.00168	134.10882	337.94096	16.86269	0.1015664	0.23424653	2.6062772	21	—	—
475994 2007 RS_{3}	17.2	X	45.81473	102.65119	233.17853	11.21962	0.2919583	0.22249829	2.6972318	21	12 23.9	21.2
475995 2007 RR_{8}	17.2	X	16.37936	183.04536	178.36222	3.62854	0.2069343	0.21803905	2.7338826	21	12 4.9	20.2
475996 2007 RJ_{21}	17.2	X	68.63254	26.82705	327.93129	4.75923	0.2130758	0.22934599	2.6432726	21	—	—
475997 2007 RM_{25}	17.8	X	38.74552	260.13091	160.90712	4.00575	0.1409937	0.23572037	2.5954020	21	—	—
475998 2007 RY_{34}	17.3	X	24.31071	232.19135	138.12266	3.02177	0.3039040	0.22165368	2.7040793	21	—	—
475999 2007 RR_{46}	16.4	X	103.43940	278.77565	343.88036	12.43496	0.1056410	0.21788504	2.7351708	21	10 29.3	20.7
476000 2007 RY_{47}	17.4	X	144.91084	85.67214	186.19812	11.20593	0.1571794	0.22747900	2.6577156	21	12 26.7	21.9