Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
440001 2002 CS_{149}	17.9	X	35.33599	317.33616	113.72703	3.89708	0.1771015	0.26661604	2.3908107	20	—	—
440002 2002 CJ_{191}	17.9	X	124.72293	260.11072	138.46891	7.04822	0.2815357	0.27788215	2.3257460	20	3 10.6	21.4
440003 2002 DE_{15}	16.0	X	186.72174	178.95341	313.59643	9.71787	0.0505903	0.18766389	3.0214511	20	8 24.7	20.5
440004 2002 EQ_{53}	15.6	X	31.51750	246.76456	340.63772	16.01814	0.1815371	0.17429429	3.1740513	20	7 4.2	19.6
440005 2002 ER_{62}	16.2	X	148.69559	156.97037	338.95486	11.58764	0.1533777	0.18011905	3.1052480	20	7 24.9	21.3
440006 2002 EU_{113}	17.8	X	319.82306	105.29658	12.08873	3.07083	0.1467833	0.25825032	2.4421676	20	—	—
440007 2002 GS_{174}	17.3	X	111.11208	120.53184	133.91121	5.64538	0.2410261	0.23996057	2.5647367	20	11 20.6	21.7
440008 2002 HT_{10}	17.3	X	92.14655	63.52422	155.93477	13.75451	0.2348068	0.23300769	2.6155070	20	9 23.2	21.5
440009 2002 JP_{2}	16.4	X	96.58532	103.19055	153.18907	28.48921	0.3609264	0.23464122	2.6033537	20	11 22.1	21.8
440010 2002 JZ_{144}	17.2	X	127.31665	111.24468	121.01347	12.57044	0.2088159	0.23772383	2.5807994	20	11 8.9	21.8
440011 2002 KL_{16}	16.7	X	129.55142	283.02552	299.13207	14.77980	0.2511070	0.23339167	2.6126375	20	10 18.6	21.6
440012 2002 LE_{27}	19.3	X	188.28874	83.62048	226.24254	3.09814	0.4543924	0.30627116	2.1797097	20	1 15.9	23.6
440013 2002 LF_{36}	16.8	X	71.07251	154.87953	122.65145	14.73810	0.2403116	0.23036630	2.6354620	20	11 16.9	21.2
440014 2002 LE_{48}	16.2	X	56.70218	59.26353	288.67699	30.34879	0.2198281	0.23421524	2.6065094	20	—	—
440015 2002 MK_{6}	17.6	X	71.71272	103.06902	171.75937	11.43130	0.2896443	0.23007287	2.6377023	20	11 16.3	22.0
440016 2002 NR_{1}	17.1	X	18.60609	168.31578	194.03849	12.61914	0.3015461	0.22799330	2.6537173	20	—	—
440017 2002 NP_{7}	16.5	X	48.93476	86.65795	267.89851	26.31894	0.4287335	0.23230384	2.6207874	20	—	—
440018 2002 NP_{58}	17.8	X	43.03194	115.20888	220.63789	4.76727	0.3303943	0.22969744	2.6405757	20	—	—
440019 2002 NG_{69}	18.1	X	158.39141	73.24650	263.94068	5.87051	0.1897942	0.30354765	2.1927282	20	1 10.8	21.2
440020 2002 NO_{73}	19.1	X	166.16816	314.89179	3.22246	4.08739	0.1702734	0.30341199	2.1933817	20	—	—
440021 2002 OL_{12}	16.3	X	56.60206	71.20958	284.82341	25.50644	0.3379046	0.23202456	2.6228900	20	—	—
440022 2002 OZ_{16}	17.4	X	30.16636	105.88927	264.78140	8.43898	0.4083947	0.22947573	2.6422762	20	—	—
440023 2002 OZ_{17}	17.5	X	32.73005	197.85856	142.80269	13.59515	0.2738656	0.22896239	2.6462240	20	12 24.3	21.4
440024 2002 OS_{25}	18.0	X	192.10567	22.51019	275.37474	5.22563	0.1926944	0.30357248	2.1926086	20	—	—
440025 2002 OF_{27}	18.7	X	201.97900	130.89833	150.46941	2.45619	0.1515088	0.30356149	2.1926615	20	—	—
440026 2002 PP_{1}	16.9	X	51.98662	2.35836	325.54524	12.10237	0.3111405	0.23111556	2.6297629	20	—	—
440027 2002 PP_{7}	17.3	X	20.43476	52.60691	316.27262	12.59514	0.2845117	0.22870678	2.6481954	20	—	—
440028 2002 PG_{19}	18.3	X	45.27884	158.83158	153.23393	7.33627	0.2811320	0.22840720	2.6505104	20	12 4.1	22.3
440029 2002 PT_{25}	17.1	X	0.17189	73.94379	303.54165	15.42909	0.2439848	0.22715270	2.6602602	20	12 21.6	20.1
440030 2002 PB_{43}	17.2	X	354.86118	86.81097	274.33144	6.90141	0.2689408	0.22413298	2.6841011	20	11 18.6	19.6
440031 2002 PM_{93}	15.6	X	327.09049	95.96142	281.66641	15.40741	0.2036660	0.22012319	2.7165989	20	9 21.0	18.6
440032 2002 PO_{108}	17.9	X	173.24870	21.82852	342.87236	7.79653	0.1977296	0.30847420	2.1693193	20	3 1.2	21.3
440033 2002 PZ_{121}	16.7	X	5.35219	104.04487	301.15408	10.32024	0.3032424	0.22930233	2.6436081	20	—	—
440034 2002 PW_{122}	17.3	X	35.58796	93.93324	224.21648	5.23442	0.1454650	0.22685385	2.6625960	20	11 9.5	20.6
440035 2002 PV_{139}	16.8	X	36.85338	349.86489	347.67500	13.80214	0.2698936	0.22822370	2.6519310	20	12 24.5	20.8
440036 2002 PX_{141}	17.1	X	50.35493	354.01894	323.23970	11.88297	0.2641278	0.22832978	2.6511096	20	12 11.8	21.3
440037 2002 PF_{142}	16.8	X	18.08950	76.25753	316.67583	14.59177	0.2510872	0.22952127	2.6419267	20	—	—
440038 2002 PX_{151}	17.2	X	352.55032	235.46043	102.91316	5.38669	0.2641817	0.22251802	2.6970723	20	10 12.6	19.4
440039 2002 PL_{158}	17.0	X	80.76278	146.22902	133.46937	14.77971	0.2552289	0.23060833	2.6336177	20	11 28.0	21.6
440040 2002 PX_{183}	17.3	X	27.00284	239.20619	140.62494	14.02953	0.2842594	0.23188155	2.6239683	20	—	—
440041 2002 QN_{15}	16.5	X	73.70479	331.19477	331.74698	13.35101	0.0888020	0.22957011	2.6415520	20	11 26.3	20.6
440042 2002 QW_{18}	16.9	X	25.94252	333.49752	60.36037	3.64439	0.1972859	0.23227721	2.6209877	20	—	—
440043 2002 QF_{24}	17.3	X	156.31410	46.81105	320.87971	27.81549	0.2698644	0.30629375	2.1796025	20	2 19.4	20.9
440044 2002 QM_{56}	17.5	X	49.21984	192.18767	113.98637	5.35008	0.1513443	0.22636549	2.6664242	20	11 14.0	21.2
440045 2002 QR_{69}	18.4	X	167.94336	296.54003	155.51445	23.86586	0.0958514	0.37595957	1.9012619	20	6 21.9	21.3
440046 2002 QY_{78}	18.5	X	152.03450	350.67442	350.26490	1.59744	0.1560619	0.30121642	2.2040272	20	1 6.2	21.3
440047 2002 QZ_{80}	17.5	X	319.20009	258.24368	140.52858	14.83251	0.2094130	0.22228724	2.6989387	20	10 23.1	20.2
440048 2002 QX_{107}	16.5	X	255.64285	237.30997	154.74262	16.62601	0.2746915	0.21179289	2.7873733	20	6 15.5	21.2
440049 2002 QH_{112}	17.1	X	359.75496	95.68511	313.82838	10.30553	0.3029153	0.22941511	2.6427416	20	—	—
440050 2002 QU_{113}	17.1	X	71.38267	353.88701	302.34463	11.40670	0.1739937	0.22886194	2.6469983	20	11 26.2	21.3
440051 2002 QZ_{119}	18.8	X	116.94986	291.35635	33.45476	1.97227	0.1801503	0.29416137	2.2391282	20	—	—
440052 2002 QL_{139}	17.3	X	14.25603	27.56727	346.92645	4.57908	0.2431200	0.23027768	2.6361381	20	—	—
440053 2002 QL_{140}	16.9	X	53.16038	343.21998	359.87023	14.13431	0.0766563	0.23063587	2.6334079	20	12 24.6	20.8
440054 2002 RY_{16}	17.0	X	51.34159	218.42605	170.44645	13.46022	0.2446554	0.23423237	2.6063822	20	—	—
440055 2002 RE_{34}	16.5	X	38.38201	8.81731	4.85612	8.16723	0.1954831	0.23042528	2.6350122	20	—	—
440056 2002 RM_{57}	16.7	X	351.52821	80.32545	311.40312	3.37644	0.3201428	0.22399584	2.6851965	20	—	—
440057 2002 RL_{70}	16.7	X	343.39629	146.45126	260.70672	7.40171	0.2862557	0.22592619	2.6698795	20	—	—
440058 2002 RM_{70}	16.9	X	59.66017	62.37321	252.06196	6.49385	0.2154531	0.22902757	2.6457219	20	12 12.6	20.9
440059 2002 RX_{99}	17.0	X	353.24334	209.75673	184.42571	4.90492	0.3179284	0.22331398	2.6906597	20	—	—
440060 2002 RH_{103}	17.8	X	188.20943	339.30131	0.80938	5.55589	0.2234635	0.30513483	2.1851178	20	2 15.1	21.3
440061 2002 RB_{111}	17.1	X	314.37045	85.05633	329.44608	8.34384	0.2578001	0.22094217	2.7098816	20	10 19.9	19.4
440062 2002 RO_{112}	18.3	X	280.52152	9.63788	334.77086	14.89668	0.1021150	0.37662123	1.8990345	20	6 3.3	20.4
440063 2002 RQ_{116}	16.9	X	316.94939	172.53879	196.36341	7.34393	0.2841680	0.21763191	2.7372912	20	8 11.1	19.3
440064 2002 RW_{184}	17.7	X	150.24352	73.02826	289.98417	5.98083	0.1770323	0.30244438	2.1980575	20	2 3.1	20.6
440065 2002 RC_{191}	16.3	X	27.36747	54.83300	355.67296	27.30104	0.1199019	0.23466632	2.6031680	20	—	—
440066 2002 RK_{239}	18.3	X	168.90552	294.74995	171.01149	22.94877	0.0576172	0.37752892	1.8959894	20	7 10.9	21.0
440067 2002 RP_{241}	16.8	X	63.07697	323.93008	330.00610	12.52561	0.1611139	0.22657030	2.6648170	20	11 9.5	20.9
440068 2002 RS_{250}	17.2	X	6.99339	171.42062	197.39673	5.91278	0.1659961	0.22762821	2.6565541	20	12 8.3	20.3
440069 2002 RY_{260}	16.6	X	322.46227	315.61615	100.86069	13.28898	0.1454904	0.22563951	2.6721404	20	11 24.5	19.5
440070 2002 RB_{279}	18.1	X	132.61764	115.26160	265.54577	5.96122	0.1919297	0.30275555	2.1965511	20	2 7.6	21.0
440071 2002 SV_{1}	18.2	X	133.83102	157.08636	195.40160	2.97840	0.2012223	0.29831047	2.2183176	20	1 6.1	20.9
440072 2002 SG_{14}	17.9	X	324.72663	4.19666	26.97079	3.70929	0.2735629	0.21986848	2.7186965	20	10 15.2	19.7
440073 2002 SG_{17}	16.9	X	25.16006	26.19115	5.80790	12.63758	0.2955433	0.22910059	2.6451598	20	—	—
440074 2002 SZ_{19}	18.8	X	119.88370	171.01214	180.10098	8.81563	0.2740159	0.29628297	2.2284262	20	—	—
440075 2002 SV_{24}	16.8	X	355.36381	186.31804	179.21884	8.72133	0.2748142	0.22215041	2.7000469	20	11 29.1	19.4
440076 2002 SX_{67}	18.6	X	48.08462	68.92343	14.50920	4.08243	0.1371295	0.29624587	2.2286122	20	—	—
440077 2002 SL_{69}	17.6	X	49.81066	176.96800	137.61422	14.41638	0.2037606	0.22620354	2.6676967	20	12 3.6	21.7
440078 2002 TP_{18}	16.6	X	348.61580	188.85118	192.76325	13.45530	0.1363735	0.22299877	2.6931946	20	11 20.9	19.7
440079 2002 TK_{22}	17.4	X	319.69302	58.53203	359.38136	5.44956	0.2672532	0.22107413	2.7088031	20	11 11.9	19.4
440080 2002 TC_{61}	17.1	X	338.62210	81.67784	334.95171	11.48642	0.2640515	0.22439684	2.6819966	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
440081 2002 TA_{68}	17.6	X	356.72270	288.99448	349.97379	20.09944	0.0609603	0.37620197	1.9004451	20	7 29.0	19.5
440082 2002 TL_{99}	17.2	X	43.12747	44.52170	282.15616	6.80906	0.2226510	0.22621133	2.6676355	20	12 10.4	20.9
440083 2002 TL_{156}	16.8	X	16.25873	31.75660	328.88753	12.52490	0.1790414	0.22585625	2.6704306	20	12 12.1	20.3
440084 2002 TE_{167}	17.4	X	330.17627	120.29357	285.47622	11.76677	0.2604167	0.22224914	2.6992472	20	11 23.2	19.6
440085 2002 TM_{174}	16.2	X	348.41657	247.06202	182.50527	27.64591	0.2914587	0.22651829	2.6652249	20	—	—
440086 2002 TK_{189}	18.0	X	140.84467	60.35563	289.89929	4.39561	0.2166057	0.29948342	2.2125217	20	1 13.4	20.7
440087 2002 TT_{203}	17.7	X	49.23297	329.49424	56.48526	7.43381	0.2642977	0.23188806	2.6239192	20	—	—
440088 2002 TG_{223}	17.4	X	343.12771	36.93796	17.43349	6.00049	0.2771671	0.22365856	2.6878954	20	—	—
440089 2002 TO_{232}	16.8	X	67.99569	79.10256	249.78807	10.29635	0.3180911	0.23019108	2.6367992	20	—	—
440090 2002 TP_{285}	16.8	X	356.67700	22.51105	6.30397	8.62205	0.2858173	0.22238741	2.6981282	20	—	—
440091 2002 TC_{319}	17.7	X	4.63558	27.78805	310.27989	2.01247	0.0963294	0.22136229	2.7064518	20	10 11.5	20.8
440092 2002 TH_{350}	17.1	X	58.55147	152.90744	203.96098	12.73178	0.1924470	0.23318025	2.6142164	20	—	—
440093 2002 TE_{353}	16.0	X	291.75325	87.89373	218.11998	5.86008	0.0649200	0.15029049	3.5036043	20	5 7.6	20.9
440094 2002 UR_{51}	16.7	X	21.00080	20.40177	305.40256	14.18480	0.0655973	0.22413275	2.6841029	20	10 9.1	20.4
440095 2002 VC_{46}	17.2	X	357.65064	228.33434	177.41294	8.73841	0.2390963	0.22370709	2.6875067	20	—	—
440096 2002 WK_{5}	18.1	X	91.10869	337.84861	54.19479	6.53993	0.1826223	0.29212653	2.2495141	20	—	—
440097 2002 XW	17.0	X	359.47643	127.97765	252.01628	11.72985	0.2324687	0.22177635	2.7030821	20	12 18.4	19.8
440098 2002 XC_{50}	16.5	X	320.41709	83.17587	281.19350	9.32290	0.3294009	0.21330340	2.7741985	20	8 4.3	18.7
440099 2002 XO_{69}	17.1	X	334.01785	162.26528	249.19595	3.57246	0.2501212	0.21989598	2.7184699	20	12 11.9	19.2
440100 2002 XP_{120}	18.2	X	81.45852	259.59817	128.93126	3.73423	0.1240870	0.28924505	2.2644293	20	—	—
440101 2003 AJ_{17}	16.8	X	345.70227	13.12787	118.07275	26.02818	0.2394469	0.28382538	2.2931646	20	—	—
440102 2003 AK_{23}	17.3	X	246.41433	99.36642	283.76443	19.18991	0.1357414	0.36745887	1.9304722	20	6 11.4	19.5
440103 2003 AP_{67}	17.1	X	281.79402	0.75121	92.26868	8.24663	0.2797804	0.21388464	2.7691702	20	10 9.4	20.3
440104 2003 BL_{11}	16.5	X	296.60755	109.03364	317.42680	25.63098	0.3111176	0.21142558	2.7906007	20	9 5.5	19.9
440105 2003 BY_{37}	17.5	X	90.66718	161.83790	325.93101	17.84616	0.0809257	0.35412247	1.9786412	20	4 12.3	19.9
440106 2003 GJ_{37}	17.8	X	187.30594	220.58225	349.53668	1.76933	0.1600902	0.26103367	2.4247764	20	12 4.5	21.5
440107 2003 HC_{14}	17.1	X	164.15775	68.35105	157.57117	11.38239	0.2141271	0.25766106	2.4458896	20	11 30.9	21.3
440108 2003 KG_{1}	15.7	X	355.89952	212.35564	121.17823	15.90097	0.2376640	0.18336713	3.0684688	20	10 2.6	19.0
440109 2003 KR_{5}	16.3	X	32.71987	100.70253	102.86612	10.78998	0.1572013	0.17528149	3.1621224	20	5 30.4	20.2
440110 2003 QT_{13}	17.7	X	18.54727	166.83385	187.76975	12.60454	0.2954489	0.23956810	2.5675371	20	12 28.9	21.2
440111 2003 RK_{27}	17.9	X	12.42995	189.46086	179.31252	2.85194	0.2431688	0.23790206	2.5795102	20	12 31.2	20.9
440112 2003 SL_{24}	17.9	X	43.38441	36.29820	347.46539	5.42186	0.2714152	0.24493122	2.5299190	20	—	—
440113 2003 SK_{46}	17.2	X	336.94767	356.56135	12.89622	4.07985	0.2143181	0.23331557	2.6132055	20	10 17.2	19.4
440114 2003 SV_{54}	18.0	X	32.44194	63.73540	298.60471	4.35795	0.2739348	0.24177848	2.5518646	20	—	—
440115 2003 SH_{58}	16.2	X	11.65971	107.38645	222.66064	12.48016	0.1252673	0.23608530	2.5927268	20	10 18.3	19.1
440116 2003 SZ_{75}	17.2	X	58.18578	343.40287	4.86772	13.39280	0.2217757	0.24428963	2.5343467	20	—	—
440117 2003 SP_{78}	17.2	X	57.49079	307.89499	290.97728	4.99793	0.1134533	0.22767711	2.6561737	20	8 19.2	20.6
440118 2003 SX_{82}	17.5	X	36.19979	170.25844	180.44635	10.84156	0.1370947	0.24063972	2.5599088	20	12 23.9	21.1
440119 2003 SC_{107}	18.1	X	10.10620	103.74766	310.78685	4.97658	0.3130666	0.24196973	2.5505198	20	—	—
440120 2003 SX_{108}	17.4	X	6.39685	148.38526	209.58705	13.11894	0.2668558	0.23588590	2.5941877	20	12 11.1	20.4
440121 2003 SD_{133}	17.5	X	351.96828	161.84340	198.46218	15.11391	0.2650820	0.23329777	2.6133384	20	11 16.8	19.9
440122 2003 SX_{156}	17.6	X	35.37653	175.54845	183.72840	11.13696	0.2004917	0.24117049	2.5561516	20	—	—
440123 2003 SF_{183}	17.8	X	49.81128	313.23345	20.68433	5.86992	0.2334152	0.24203919	2.5500317	20	12 31.6	21.7
440124 2003 SH_{224}	18.3	X	13.41500	87.46503	326.57398	2.86302	0.3096809	0.24101455	2.5572540	20	—	—
440125 2003 SE_{254}	15.5	X	290.48561	51.25580	266.73715	9.07105	0.0963454	0.15613839	3.4155679	20	5 14.9	20.3
440126 2003 SV_{274}	17.9	X	75.61616	155.76197	160.68013	2.32847	0.0985121	0.24068942	2.5595565	20	12 21.6	21.5
440127 2003 SG_{281}	17.3	X	48.06737	204.57290	128.72459	4.55207	0.2174155	0.24032963	2.5621104	20	12 26.4	21.1
440128 2003 SX_{297}	16.9	X	69.91050	57.44936	269.18907	11.39826	0.1953700	0.24399107	2.5364137	20	—	—
440129 2003 SN_{302}	16.5	X	183.70971	246.77275	324.26454	12.46564	0.1135469	0.24284299	2.5444017	20	12 1.1	20.5
440130 2003 SE_{327}	17.6	X	301.50854	86.60856	3.43732	9.69037	0.0423079	0.24040854	2.5615497	20	12 6.7	21.0
440131 2003 SR_{329}	18.2	X	345.39328	21.30768	20.52381	2.17504	0.2191500	0.23631297	2.5910612	20	12 26.6	20.7
440132 2003 SS_{332}	18.1	X	14.80573	162.47745	251.32721	2.98031	0.3007798	0.24443081	2.5333708	20	—	—
440133 2003 SC_{420}	17.1	X	6.33559	272.85641	107.86944	12.75649	0.0585881	0.23615936	2.5921847	20	12 11.5	20.4
440134 2003 TG_{9}	16.9	X	321.09251	76.01949	338.04609	10.71426	0.1912342	0.23364057	2.6107816	20	11 12.9	19.5
440135 2003 UJ	18.0	X	27.63785	303.44178	78.90361	9.22376	0.3562364	0.24152860	2.5536243	20	—	—
440136 2003 UH_{10}	17.7	X	6.51442	34.45309	28.51341	12.95662	0.2871498	0.24200433	2.5502766	20	—	—
440137 2003 UG_{33}	18.3	X	47.14255	193.73462	170.98255	3.32807	0.1211947	0.24313115	2.5423909	20	—	—
440138 2003 UR_{60}	17.5	X	39.39352	264.35262	91.72106	6.80552	0.2790188	0.24148770	2.5539126	20	—	—
440139 2003 UD_{79}	17.6	X	64.05693	57.14309	287.23907	3.19131	0.2310905	0.24416785	2.5351893	20	—	—
440140 2003 UQ_{117}	17.1	X	344.13753	299.24135	114.57661	8.48034	0.1756179	0.23851669	2.5750769	20	—	—
440141 2003 UE_{122}	17.9	X	47.18917	91.13064	288.49705	7.23837	0.2620771	0.24508622	2.5288522	20	—	—
440142 2003 UE_{125}	17.6	X	55.32228	186.70155	158.49292	4.87645	0.2556653	0.24246290	2.5470600	20	—	—
440143 2003 UN_{154}	17.3	X	66.22544	284.68737	50.49170	7.00660	0.2715147	0.24349915	2.5398287	20	—	—
440144 2003 UT_{155}	17.2	X	324.94525	356.00376	77.53088	5.68568	0.1089186	0.23844553	2.5755892	20	12 22.6	19.9
440145 2003 UV_{177}	18.9	X	145.91761	353.25851	348.35940	0.92704	0.1925755	0.31581697	2.1355631	20	1 2.1	21.3
440146 2003 UP_{178}	18.2	X	38.17469	34.07626	313.94818	1.49488	0.2195612	0.23970446	2.5665633	20	—	—
440147 2003 UB_{180}	17.9	X	33.14567	188.76805	176.00293	5.03892	0.3136255	0.24021858	2.5628999	20	—	—
440148 2003 UH_{211}	17.4	X	346.63695	10.53893	34.28651	5.44547	0.2456300	0.23576431	2.5950795	20	—	—
440149 2003 UE_{261}	17.2	X	36.94855	341.45932	28.30580	14.61951	0.1823835	0.24175819	2.5520073	20	—	—
440150 2003 UK_{268}	18.1	X	39.47115	330.31710	35.34007	4.96733	0.3136905	0.24092813	2.5578655	20	—	—
440151 2003 UK_{305}	17.2	X	41.58828	0.18812	358.98954	11.69033	0.0541776	0.24019470	2.5630698	20	12 30.8	20.8
440152 2003 UG_{316}	18.1	X	343.59284	206.48615	240.95940	5.59804	0.2966136	0.23899984	2.5716053	20	—	—
440153 2003 UC_{332}	17.9	X	74.10348	68.48974	225.38557	4.50818	0.1605297	0.24078538	2.5588764	20	11 28.7	21.6
440154 2003 UC_{338}	18.1	X	6.56593	337.21417	60.05910	0.97314	0.1473063	0.24146343	2.5540838	20	—	—
440155 2003 VJ_{4}	17.8	X	11.68551	68.87754	337.39793	3.67529	0.2729809	0.23993288	2.5649340	20	—	—
440156 2003 VM_{4}	18.4	X	10.70534	139.03444	282.53126	5.34174	0.2756613	0.24132205	2.5550812	20	—	—
440157 2003 WM_{26}	16.3	X	338.77368	109.62529	260.35640	27.94530	0.3463946	0.22979836	2.6398025	20	10 29.2	18.4
440158 2003 WH_{28}	17.8	X	46.46495	344.98697	17.42312	4.11401	0.2684747	0.24107606	2.5568191	20	—	—
440159 2003 WW_{32}	17.5	X	332.34488	35.35885	18.49273	5.39977	0.2369927	0.23450065	2.6043940	20	12 16.8	19.7
440160 2003 WE_{33}	17.4	X	74.96566	321.10198	17.21259	5.34184	0.2953549	0.24382755	2.5375476	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
440161 2003 WA_{39}	17.0	X	274.23552	193.57821	255.47009	12.88843	0.1450196	0.22929312	2.6436789	20	10 6.7	20.6
440162 2003 WH_{56}	16.0	X	166.38626	308.17671	251.86971	21.15029	0.0521085	0.22861577	2.6488981	20	10 30.3	20.0
440163 2003 WR_{66}	16.5	X	249.21416	165.58752	250.00673	8.89119	0.1942454	0.21904724	2.7254875	20	7 15.2	20.6
440164 2003 WV_{67}	17.7	X	23.59481	153.32300	242.11432	4.59098	0.2797061	0.24015207	2.5633731	20	—	—
440165 2003 WU_{108}	17.5	X	40.47634	9.54306	9.42341	4.54273	0.2542922	0.24230574	2.5481613	20	—	—
440166 2003 WG_{114}	17.9	X	4.12710	131.65378	254.28251	7.92516	0.2285238	0.23581835	2.5946831	20	—	—
440167 2003 WP_{122}	17.9	X	330.52664	43.75031	29.80586	5.87162	0.2431332	0.23477582	2.6023586	20	—	—
440168 2003 WD_{143}	16.8	X	292.83692	36.05660	71.68983	9.44311	0.1533146	0.23288997	2.6163883	20	12 8.9	19.3
440169 2003 WL_{186}	17.6	X	82.87865	121.28183	157.78306	5.53617	0.1333032	0.23888856	2.5724038	20	11 17.7	21.4
440170 2003 XW_{3}	17.1	X	10.76777	169.36988	228.74081	9.07213	0.2794589	0.23750776	2.5823644	20	—	—
440171 2003 YQ_{63}	16.8	X	16.49919	306.41100	102.31504	6.34523	0.3056925	0.23868302	2.5738804	20	—	—
440172 2003 YN_{89}	16.9	X	338.25554	329.45186	97.64826	7.99891	0.3203565	0.23205966	2.6226255	20	—	—
440173 2003 YB_{133}	16.2	X	146.27494	214.34563	315.26888	12.68702	0.1425144	0.21198560	2.7856837	20	8 29.2	20.7
440174 2003 YF_{136}	18.5	X	132.13717	99.24783	265.33231	3.51246	0.2808070	0.31174678	2.1541109	20	1 28.2	21.4
440175 2003 YH_{145}	16.9	X	350.83255	100.08524	333.15444	12.52769	0.2053756	0.23418069	2.6067657	20	—	—
440176 2003 YB_{163}	17.2	X	17.41163	345.05901	45.63483	6.15938	0.3320246	0.23691512	2.5866691	20	—	—
440177 2004 BM_{8}	16.9	X	272.57015	256.33893	150.48821	5.57975	0.0448241	0.21427704	2.7657884	20	8 26.4	20.6
440178 2004 BZ_{33}	17.4	X	8.48367	287.24585	114.11648	5.25130	0.3192789	0.23455727	2.6039748	20	—	—
440179 2004 BF_{41}	16.6	X	349.71948	113.22551	330.31552	26.75832	0.4118285	0.23473213	2.6026815	20	—	—
440180 2004 BY_{64}	17.5	X	326.94758	344.49564	92.77854	4.16627	0.1808441	0.23052249	2.6342714	20	—	—
440181 2004 BM_{113}	17.1	X	227.37452	59.86922	158.05856	23.39363	0.2136868	0.28768262	2.2726208	20	—	—
440182 2004 CR_{6}	18.1	X	8.88709	118.61361	148.83170	22.94022	0.0746595	0.38283191	1.8784399	20	7 23.7	19.6
440183 2004 CU_{37}	16.1	X	236.07100	354.89745	148.23791	22.71612	0.1388090	0.22146876	2.7055843	20	11 6.5	20.4
440184 2004 CZ_{85}	16.8	X	328.95781	294.62631	142.52831	14.46404	0.2559881	0.22897227	2.6461480	20	—	—
440185 2004 CP_{87}	17.1	X	235.37697	8.96592	96.47382	10.44848	0.1620952	0.21733229	2.7398064	20	9 12.9	21.3
440186 2004 CE_{93}	16.7	X	178.89821	172.90024	338.26516	8.81820	0.2030418	0.21312928	2.7757092	20	9 6.7	21.5
440187 2004 CD_{103}	15.8	X	140.77718	212.54199	308.12905	14.21742	0.0778298	0.20597324	2.8396328	20	8 10.9	20.0
440188 2004 CL_{107}	16.9	X	165.69090	188.39674	341.57956	7.46555	0.1509412	0.21177426	2.7875368	20	9 18.6	21.3
440189 2004 DA_{72}	16.7	X	180.92594	174.88435	342.01222	8.85445	0.1003042	0.21327063	2.7744826	20	9 18.7	20.8
440190 2004 EH_{38}	16.4	X	218.13639	115.05086	27.45989	8.48633	0.2511255	0.21463846	2.7626828	20	9 29.1	20.8
440191 2004 FP	18.1	X	129.24398	317.48786	174.75741	20.98849	0.0593670	0.37909563	1.8907620	20	6 27.3	20.8
440192 2004 FV_{5}	17.6	X	306.83542	325.00907	3.80750	18.98946	0.0543305	0.38200737	1.8811419	20	7 15.7	19.7
440193 2004 FW_{28}	17.6	X	133.45379	333.20325	150.60130	22.84266	0.0787422	0.37937096	1.8898471	20	6 24.6	20.3
440194 2004 FW_{43}	16.0	X	111.66302	220.73893	329.57828	15.26527	0.1752256	0.20315854	2.8658008	20	8 25.7	20.6
440195 2004 FL_{110}	17.4	X	179.50373	116.53025	88.86563	7.96804	0.2001588	0.27684060	2.3315757	20	11 22.2	21.0
440196 2004 FK_{158}	15.2	X	56.68293	133.76777	357.09665	9.02789	0.1983443	0.12509407	3.9595416	20	4 9.3	20.3
440197 2004 GX	18.5	X	197.66836	16.98655	194.44855	1.56247	0.2209816	0.27935507	2.3175637	20	12 14.3	21.9
440198 2004 GS_{2}	17.7	X	89.71906	44.85442	136.95001	23.89775	0.0757375	0.37857639	1.8924905	20	7 21.5	19.6
440199 2004 GP_{39}	16.2	X	12.79859	321.31661	234.94914	13.87682	0.2521184	0.18387765	3.0627867	20	4 9.3	19.2
440200 2004 HV_{35}	17.7	X	195.00228	148.52136	75.82958	5.85849	0.2102172	0.28013754	2.3132461	20	12 29.2	20.9
440201 2004 HM_{41}	17.5	X	167.32061	160.67636	109.32306	8.47634	0.2079468	0.27790802	2.3256017	20	—	—
440202 2004 HN_{63}	17.7	X	76.43443	240.54588	248.02889	18.35068	0.0811508	0.36891564	1.9253869	20	3 20.9	20.0
440203 2004 HH_{64}	16.8	X	79.73784	148.05135	51.99291	6.27582	0.1770030	0.19787241	2.9166158	20	8 7.0	21.1
440204 2004 JA_{31}	16.9	X	28.30208	173.84688	67.90374	7.77399	0.2549040	0.19075427	2.9887290	20	7 29.8	20.2
440205 2004 LL_{30}	17.3	X	129.08824	88.67525	228.71267	11.09675	0.2227440	0.27188330	2.3598317	20	—	—
440206 2004 NX_{9}	17.4	X	129.37347	189.88842	108.82749	10.89520	0.2574682	0.27086687	2.3657315	20	—	—
440207 2004 NY_{12}	17.1	X	344.41203	19.25509	274.86270	6.56794	0.2798233	0.18371173	3.0646305	20	6 25.5	19.6
440208 2004 NQ_{17}	15.9	X	316.82615	33.50490	340.38419	9.03616	0.4263732	0.18114124	3.0935548	20	7 21.1	18.7
440209 2004 NV_{22}	17.7	X	101.16795	35.22487	299.12026	8.70648	0.2638687	0.26803750	2.3823506	20	—	—
440210 2004 ND_{31}	15.4	X	293.15816	28.93372	308.07349	16.68262	0.1747272	0.17702193	3.1413621	20	5 30.5	20.0
440211 2004 NZ_{32}	17.0	X	147.21752	319.41012	346.50788	23.88251	0.1899167	0.27305544	2.3530735	20	—	—
440212 2004 OB	18.8	X	51.66293	223.33909	174.53566	3.44155	0.4301030	0.45224404	1.6809475	20	—	—
440213 2004 OD_{6}	17.5	X	83.56291	327.97074	349.38959	4.76621	0.2476678	0.26524935	2.3990161	20	—	—
440214 2004 OJ_{10}	15.7	X	323.32186	357.75918	322.26138	18.56623	0.1958166	0.18165323	3.0877393	20	6 27.2	19.5
440215 2004 PY_{4}	17.6	X	145.14310	99.48664	222.70345	3.88672	0.2527408	0.27533861	2.3400473	20	—	—
440216 2004 PQ_{6}	17.0	X	110.45984	35.79296	301.91423	5.81182	0.1409891	0.27049908	2.3678755	20	—	—
440217 2004 PT_{10}	17.8	X	131.26487	191.15407	145.79359	12.16991	0.2455759	0.27432926	2.3457837	20	—	—
440218 2004 PR_{21}	16.8	X	351.54789	349.31137	327.99701	3.98243	0.2399015	0.18552652	3.0446127	20	8 21.7	19.4
440219 2004 PY_{34}	17.5	X	119.36824	5.01354	329.38828	1.52772	0.2356626	0.27075774	2.3663671	20	—	—
440220 2004 PO_{38}	17.8	X	99.13294	217.56644	128.32670	5.97149	0.2628094	0.26763237	2.3847542	20	—	—
440221 2004 PQ_{48}	17.4	X	135.38130	337.59973	334.34822	5.85568	0.2479510	0.27287767	2.3540953	20	—	—
440222 2004 PC_{56}	16.5	X	62.29047	342.82863	340.88576	11.50107	0.2575986	0.25811781	2.4430034	20	—	—
440223 2004 PW_{57}	17.9	X	308.64620	324.20413	315.49364	17.63799	0.0661721	0.35891947	1.9609719	20	3 31.9	20.4
440224 2004 PE_{65}	18.1	X	105.09033	289.97408	56.24852	3.77940	0.2165511	0.27026658	2.3692333	20	—	—
440225 2004 PK_{65}	15.8	X	271.22079	55.76193	323.88180	9.07559	0.1456834	0.17745454	3.1362545	20	7 2.5	20.3
440226 2004 PN_{66}	16.0	X	264.13836	228.31708	142.80528	12.69570	0.0848864	0.17880823	3.1204056	20	6 21.3	20.6
440227 2004 PJ_{74}	17.7	X	64.88893	306.39449	67.45062	3.03995	0.2294612	0.26652068	2.3913810	20	—	—
440228 2004 PU_{82}	16.0	X	350.29598	314.34937	338.05326	17.66941	0.2619569	0.18144707	3.0900777	20	7 16.1	19.1
440229 2004 PE_{104}	16.4	X	318.92902	308.21129	43.98712	17.86057	0.2821596	0.18408477	3.0604889	20	7 23.8	19.9
440230 2004 PQ_{111}	15.9	X	2.08092	281.34604	335.48421	24.76365	0.2352874	0.17854293	3.1234959	20	6 17.9	19.6
440231 2004 QG_{15}	16.3	X	263.60410	69.25257	308.43650	9.90117	0.0300831	0.17525246	3.1624716	20	7 7.0	20.8
440232 2004 QQ_{15}	17.6	X	100.37045	174.39382	193.22015	5.70345	0.2508733	0.27031110	2.3689731	20	—	—
440233 2004 QS_{15}	15.7	X	182.28382	143.93081	317.63039	10.11003	0.0404023	0.17520993	3.1629834	20	7 14.2	20.3
440234 2004 QE_{19}	17.8	X	120.84197	342.32269	328.80597	3.22667	0.2203809	0.26838614	2.3802870	20	—	—
440235 2004 QR_{19}	15.3	X	283.95833	75.74954	290.47489	24.78817	0.2723168	0.17484744	3.1673535	20	6 13.6	20.0
440236 2004 QK_{20}	15.4	X	344.81963	50.84002	264.16408	22.03936	0.2470171	0.18186969	3.0852889	20	7 22.8	18.6
440237 2004 QB_{26}	17.6	X	92.98560	195.04677	153.11068	1.60791	0.1924061	0.26739410	2.3861707	20	—	—
440238 2004 QV_{28}	17.6	X	287.00066	322.18084	179.07822	18.89148	0.0403000	0.26473199	2.4021406	20	—	—
440239 2004 RB_{2}	15.5	X	274.99426	98.23221	298.29550	24.82107	0.2690359	0.17630127	3.1499169	20	7 11.7	20.0
440240 2004 RF_{2}	15.2	X	314.86759	33.80222	313.64114	26.61642	0.1414672	0.17693379	3.1424053	20	7 26.9	19.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
440241 2004 RG_9	16.5	X	323.81824	232.33135	126.13717	3.94816	0.1841118	0.18301246	3.0724320	20	8 21.0	19.7
440242 2004 RX_9	18.0	X	63.76205	59.34352	5.12900	5.88113	0.4220064	0.26877840	2.3779705	20	2 13.5	19.2
440243 2004 RF_{10}	17.2	X	28.81312	291.69649	85.23873	9.62759	0.3530377	0.25719043	2.4488725	20	—	—
440244 2004 RG_{13}	17.6	X	111.17387	323.38503	22.15878	2.92645	0.2007141	0.26940073	2.3743070	20	—	—
440245 2004 RM_{14}	17.9	X	47.01627	209.41765	183.09908	5.98745	0.2444971	0.26451489	2.4034548	20	—	—
440246 2004 RY_{14}	17.8	X	77.05821	42.90894	339.95552	8.68730	0.2172943	0.26864438	2.3787613	20	—	—
440247 2004 RT_{15}	17.7	X	70.05085	330.83081	33.79086	2.83692	0.1809881	0.26547271	2.3976703	20	—	—
440248 2004 RF_{22}	17.9	X	120.24916	311.34360	346.17564	2.64071	0.1773693	0.26560608	2.3968676	20	—	—
440249 2004 RM_{22}	17.9	X	79.45550	5.98704	5.96685	2.23795	0.2356173	0.26714042	2.3876810	20	—	—
440250 2004 RN_{22}	17.7	X	102.37872	174.89787	160.59485	2.78151	0.2175921	0.26719623	2.3873486	20	—	—
440251 2004 RW_{41}	15.6	X	336.37346	1.58407	317.99671	16.20103	0.1852562	0.17887666	3.1196097	20	7 23.5	19.0
440252 2004 RJ_{46}	17.8	X	103.17092	182.50214	156.44993	2.58521	0.2279683	0.26767474	2.3845026	20	—	—
440253 2004 RR_{64}	15.9	X	330.84192	14.79758	351.23049	11.03167	0.1452759	0.18395083	3.0619744	20	9 15.9	19.4
440254 2004 RV_{68}	17.2	X	46.39476	239.14198	175.14446	8.43670	0.3212070	0.26440288	2.4041336	20	—	—
440255 2004 RD_{71}	18.3	X	102.53948	87.64738	225.98809	2.17833	0.2352705	0.26515959	2.3995575	20	—	—
440256 2004 RR_{80}	16.4	X	293.47923	324.43950	12.66737	5.63875	0.2030466	0.17458223	3.1705604	20	5 26.9	20.7
440257 2004 RG_{81}	17.7	X	60.12074	72.01737	309.42602	2.80095	0.1768991	0.26482382	2.4015853	20	—	—
440258 2004 RR_{82}	18.2	X	71.64271	20.58989	6.98000	2.98264	0.1867697	0.26763672	2.3847284	20	—	—
440259 2004 RB_{88}	18.1	X	36.66133	136.49662	261.08729	1.56271	0.1937790	0.26322454	2.4113031	20	—	—
440260 2004 RQ_{91}	17.9	X	67.14125	111.06748	262.23760	2.15682	0.2089857	0.26580316	2.3956827	20	—	—
440261 2004 RG_{94}	17.6	X	68.89712	71.94947	324.18184	8.34200	0.2213624	0.26876033	2.3780771	20	—	—
440262 2004 RY_{99}	17.7	X	112.26841	25.49535	298.12754	4.43056	0.1935184	0.26723084	2.3871424	20	—	—
440263 2004 RO_{100}	17.4	X	120.82118	311.74631	332.89094	5.34486	0.2376384	0.26440571	2.4041165	20	—	—
440264 2004 RX_{101}	18.1	X	86.61364	137.28867	228.18521	1.70743	0.2511462	0.26706279	2.3881438	20	—	—
440265 2004 RD_{103}	15.7	X	261.84870	53.14233	336.87160	22.31200	0.1773295	0.17446956	3.1719253	20	7 3.5	20.7
440266 2004 RR_{107}	17.2	X	110.05004	317.86494	351.37032	7.47783	0.2484370	0.26480490	2.4016997	20	—	—
440267 2004 RQ_{112}	16.1	X	289.24360	91.44142	281.42615	14.58964	0.2742575	0.17565562	3.1576308	20	6 26.9	20.4
440268 2004 RY_{113}	15.4	X	322.31710	68.44593	264.55946	14.84361	0.2358497	0.17889070	3.1194464	20	7 3.6	18.7
440269 2004 RO_{114}	16.2	X	56.71986	249.03914	333.02935	9.71549	0.0216620	0.17639758	3.1487702	20	7 12.1	20.6
440270 2004 RG_{126}	16.8	X	323.87525	125.05963	174.90988	9.54531	0.1203716	0.17494497	3.1661761	20	6 7.6	20.9
440271 2004 RS_{131}	16.2	X	295.50774	341.48585	351.90157	9.10979	0.0922162	0.17479282	3.1680132	20	6 11.0	20.6
440272 2004 RR_{138}	18.2	X	101.16094	93.16459	257.81681	6.52360	0.2713135	0.26924718	2.3752096	20	—	—
440273 2004 RO_{143}	17.6	X	66.65672	309.79580	86.59877	3.17207	0.2108997	0.26677832	2.3898411	20	—	—
440274 2004 RQ_{143}	17.7	X	104.02528	215.53509	130.22389	3.39858	0.2032739	0.26735213	2.3864204	20	—	—
440275 2004 RP_{155}	17.8	X	65.33168	126.40510	261.76755	3.35530	0.2357366	0.26626493	2.3929120	20	—	—
440276 2004 RX_{159}	17.7	X	101.41878	119.04071	221.24481	4.39581	0.2283319	0.26634767	2.3924165	20	—	—
440277 2004 RF_{164}	16.0	X	295.81245	22.59675	322.07790	13.70290	0.0452468	0.17419094	3.1753066	20	7 5.8	20.5
440278 2004 RL_{169}	18.1	X	119.38293	211.15388	104.58254	1.99900	0.2414012	0.26788360	2.3832630	20	—	—
440279 2004 RW_{170}	16.0	X	300.75134	60.25287	291.45522	8.82932	0.1927961	0.17756913	3.1349051	20	6 29.1	20.0
440280 2004 RE_{179}	16.2	X	265.59022	60.08893	326.83916	14.80542	0.2369875	0.17394912	3.1782487	20	6 22.6	21.2
440281 2004 RZ_{186}	15.9	X	268.88811	173.99126	223.51037	9.76174	0.1950904	0.17544264	3.1601857	20	7 12.0	20.6
440282 2004 RB_{188}	17.2	X	98.40540	24.04036	299.04903	6.15963	0.1549222	0.26323861	2.4112171	20	—	—
440283 2004 RY_{203}	17.4	X	113.05330	28.23953	311.37200	6.42359	0.1580108	0.26905501	2.3763405	20	—	—
440284 2004 RR_{204}	17.2	X	35.83603	157.11436	242.62676	4.36138	0.1853823	0.26302572	2.4125180	20	—	—
440285 2004 RQ_{213}	15.9	X	298.20815	65.62067	305.45535	15.73547	0.2352484	0.17676614	3.1443919	20	7 15.3	19.8
440286 2004 RF_{214}	16.0	X	313.74317	34.34017	308.64658	12.00459	0.2415986	0.17790087	3.1310068	20	7 2.6	19.6
440287 2004 RY_{216}	16.2	X	279.12721	91.84725	314.27234	10.81137	0.2502664	0.17695457	3.1421592	20	7 30.6	20.3
440288 2004 RJ_{217}	16.6	X	219.70751	123.48604	299.58511	10.79000	0.3821593	0.16623889	3.2757768	20	6 15.2	22.7
440289 2004 RY_{217}	16.9	X	50.29172	107.35485	344.75308	20.31765	0.3717477	0.26709165	2.3879717	20	2 13.8	17.9
440290 2004 RS_{220}	16.1	X	264.49710	62.89674	348.96849	20.51398	0.3332153	0.17257864	3.1950527	20	7 14.9	21.4
440291 2004 RR_{224}	17.2	X	117.60760	48.03805	257.07418	1.58196	0.2383894	0.26455683	2.4032008	20	—	—
440292 2004 RY_{224}	16.2	X	307.24503	18.30930	356.43846	7.67190	0.1582134	0.18105668	3.0945180	20	8 17.4	20.0
440293 2004 RV_{227}	17.6	X	34.24123	45.92654	346.24422	4.77520	0.1452069	0.25938518	2.4350391	20	—	—
440294 2004 RB_{232}	17.8	X	51.85809	355.54410	12.82512	6.40145	0.1491556	0.25965453	2.4333548	20	—	—
440295 2004 RL_{235}	16.1	X	268.37866	43.63400	339.76524	11.47958	0.2562101	0.17363804	3.1820437	20	6 17.5	21.1
440296 2004 RP_{235}	18.4	X	60.81299	229.62116	100.45967	1.66773	0.2259059	0.26061079	2.4273987	20	—	—
440297 2004 RN_{247}	15.6	X	275.29081	120.34384	257.39546	17.76873	0.1946696	0.17646773	3.1479357	20	6 25.6	20.1
440298 2004 RA_{258}	16.0	X	281.40676	66.69720	327.80676	10.82323	0.0822786	0.18041654	3.1018335	20	8 13.7	20.1
440299 2004 RA_{270}	16.5	X	246.79474	46.75249	350.80236	6.05103	0.1582666	0.17363864	3.1820363	20	6 24.2	21.4
440300 2004 RX_{272}	18.3	X	37.66272	10.07612	13.97320	2.32716	0.1410442	0.26183940	2.4197995	20	—	—
440301 2004 RP_{280}	18.1	X	31.23999	131.32645	264.85763	1.07444	0.2161862	0.26125314	2.4234182	20	—	—
440302 2004 RY_{285}	18.3	X	120.01997	176.40283	131.92581	3.11099	0.2427706	0.26706755	2.3881154	20	—	—
440303 2004 RX_{307}	17.4	X	98.36159	99.44681	243.10924	3.97744	0.2371347	0.26557356	2.3970633	20	—	—
440304 2004 RN_{318}	16.8	X	321.60427	66.06218	258.29995	5.42205	0.2276070	0.17812880	3.1283352	20	6 22.3	20.1
440305 2004 RO_{320}	17.6	X	44.47646	72.05763	322.24256	4.12822	0.2274099	0.26279330	2.4139403	20	—	—
440306 2004 RM_{326}	17.3	X	97.83534	115.85721	227.13672	5.58141	0.1496752	0.26620020	2.3932999	20	—	—
440307 2004 RB_{328}	16.5	X	287.90825	51.62657	324.83469	9.33742	0.2530220	0.17562711	3.1579725	20	7 4.1	20.8
440308 2004 RU_{337}	18.3	X	33.99443	221.38411	189.87919	2.32061	0.1740098	0.26178130	2.4201576	20	—	—
440309 2004 SC_3	16.4	X	325.97268	166.62440	168.05988	10.96959	0.2017657	0.18106500	3.0944233	20	7 18.0	20.0
440310 2004 SR_3	15.3	X	243.79122	85.33232	308.69908	14.40870	0.0578368	0.17484375	3.1673980	20	6 29.9	20.0
440311 2004 SO_{34}	17.6	X	169.89602	354.35701	272.42032	5.58276	0.1033727	0.26822022	2.3812685	20	—	—
440312 2004 SE_{42}	16.4	X	260.66729	83.75676	319.03089	8.46108	0.2260478	0.17443444	3.1723509	20	7 8.2	21.2
440313 2004 SG_{50}	17.6	X	99.17389	329.89152	15.26120	2.76122	0.2274114	0.26598389	2.3945974	20	—	—
440314 2004 ST_{50}	16.3	X	293.31288	341.42204	12.82044	8.05481	0.0546364	0.17244703	3.1966781	20	7 12.9	20.8
440315 2004 SR_{56}	16.4	X	284.98661	200.33270	167.65420	11.07250	0.2260647	0.17550051	3.1594911	20	6 22.2	20.9
440316 2004 TF_{26}	16.4	X	239.91044	46.65385	1.29089	5.13092	0.0882597	0.17221793	3.1995125	20	7 8.2	21.2
440317 2004 TE_{33}	18.1	X	101.87802	5.01244	325.03584	1.70909	0.2194759	0.26396131	2.4068140	20	—	—
440318 2004 TN_{33}	18.1	X	30.20302	206.92541	230.49491	4.00650	0.1549416	0.26471110	2.4022670	20	—	—
440319 2004 TN_{45}	15.6	X	293.39815	330.23990	25.65255	16.19847	0.1493948	0.17245196	3.1966171	20	6 30.2	20.1
440320 2004 TC_{46}	18.0	X	108.74691	354.29171	353.63331	1.13086	0.2019025	0.26644980	2.3918051	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
440321 2004 TS_{59}	17.2	X	62.94679	349.39564	24.82504	5.86907	0.1088205	0.26298073	2.4127932	20	—	—
440322 2004 TK_{60}	18.0	X	67.08759	86.41750	302.64792	1.03938	0.2287826	0.26583538	2.3954891	20	—	—
440323 2004 TR_{65}	16.1	X	254.14056	343.62049	46.16491	5.44945	0.2026383	0.17131479	3.2107474	20	6 16.6	21.1
440324 2004 TH_{90}	17.7	X	101.66502	308.98912	3.29153	6.34386	0.1675951	0.26025597	2.4296045	20	—	—
440325 2004 TV_{96}	17.9	X	49.84612	215.38065	182.32860	2.85743	0.1734254	0.26269662	2.4145325	20	—	—
440326 2004 TS_{103}	17.8	X	100.61212	148.24932	206.29116	1.35847	0.2097178	0.26781946	2.3836435	20	—	—
440327 2004 TB_{108}	17.6	X	73.08935	230.95848	153.12048	7.43088	0.2141787	0.26561482	2.3968150	20	—	—
440328 2004 TC_{112}	16.0	X	306.60734	50.26319	297.34947	13.25341	0.2961577	0.17559969	3.1583012	20	6 16.2	19.9
440329 2004 TW_{115}	17.7	X	83.00521	279.16716	78.03841	3.78781	0.2241962	0.26410550	2.4059380	20	—	—
440330 2004 TP_{118}	16.6	X	58.85423	10.81879	0.82863	8.50786	0.0929735	0.26165421	2.4209411	20	—	—
440331 2004 TA_{124}	17.5	X	75.84075	254.23188	99.16233	2.54039	0.2029412	0.26359317	2.4090544	20	—	—
440332 2004 TX_{124}	16.3	X	251.23943	255.83853	148.16967	8.21186	0.2691514	0.17207296	3.2013092	20	6 24.4	21.5
440333 2004 TM_{125}	17.7	X	97.34029	320.96297	29.24893	1.82563	0.2014437	0.26640678	2.3920626	20	—	—
440334 2004 TQ_{126}	17.3	X	76.83122	312.44457	51.43921	6.77998	0.2748038	0.26445090	2.4038425	20	—	—
440335 2004 TD_{129}	18.0	X	69.79004	298.20926	78.24714	3.76215	0.2247549	0.26411247	2.4058956	20	—	—
440336 2004 TR_{162}	17.9	X	100.92648	192.25844	167.00648	1.40159	0.2089874	0.26603312	2.3943019	20	—	—
440337 2004 TW_{181}	15.8	X	318.95375	327.29137	12.36684	27.47748	0.1335912	0.17779736	3.1322219	20	8 3.8	20.2
440338 2004 TJ_{187}	16.2	X	334.14790	312.61074	13.12570	11.11791	0.1298535	0.17687370	3.1431170	20	8 1.9	20.1
440339 2004 TL_{196}	17.9	X	60.22977	162.24006	211.41434	5.01417	0.2506538	0.26148426	2.4219900	20	—	—
440340 2004 TM_{197}	17.5	X	38.37023	198.67236	199.77969	4.60773	0.1075929	0.26068195	2.4269570	20	—	—
440341 2004 TJ_{209}	18.3	X	103.98936	338.45573	4.75868	1.05563	0.2216706	0.26680592	2.3896763	20	—	—
440342 2004 TN_{213}	16.1	X	293.30033	130.99053	206.17471	16.44947	0.1804028	0.17253875	3.1955451	20	6 1.0	20.6
440343 2004 TB_{224}	17.7	X	59.83846	123.67071	283.01712	1.54275	0.1905865	0.26659460	2.3909389	20	—	—
440344 2004 TG_{226}	16.2	X	299.58838	317.63827	28.09373	9.30320	0.0977957	0.17394024	3.1783570	20	7 3.8	20.5
440345 2004 TU_{227}	18.4	X	25.31497	41.79615	359.42400	4.54434	0.1821540	0.25875817	2.4389712	20	—	—
440346 2004 TN_{244}	16.0	X	259.09827	2.31542	356.93309	7.34185	0.0640443	0.16819748	3.2502970	20	5 31.5	20.7
440347 2004 TH_{265}	17.8	X	36.68002	10.77590	9.35334	2.54159	0.1944570	0.25731507	2.4480817	20	—	—
440348 2004 TZ_{275}	17.7	X	30.13495	175.93094	222.43093	5.25016	0.1132541	0.25744755	2.4472418	20	—	—
440349 2004 TL_{295}	15.6	X	319.58943	358.83295	35.11819	10.99903	0.0901035	0.18050136	3.1008617	20	10 8.9	19.4
440350 2004 TC_{296}	18.3	X	62.14587	157.51506	225.60883	6.00384	0.2388538	0.26144831	2.4222120	20	—	—
440351 2004 TE_{297}	16.8	X	68.23202	328.03757	34.25513	8.03125	0.2045603	0.26128514	2.4232204	20	—	—
440352 2004 TC_{298}	15.5	X	264.56805	122.15554	255.01604	12.24637	0.1639897	0.17103518	3.2142458	20	6 17.2	20.2
440353 2004 TR_{298}	17.0	X	252.90454	28.98699	9.17989	5.98809	0.2311207	0.17101623	3.2144832	20	6 22.7	22.0
440354 2004 TR_{350}	17.4	X	49.16697	340.82672	31.10426	2.97922	0.2225048	0.25794498	2.4440945	20	—	—
440355 2004 TB_{354}	18.4	X	41.98183	357.78854	26.59037	1.07955	0.1802092	0.25733166	2.4479765	20	—	—
440356 2004 TW_{361}	17.9	X	44.25805	28.18366	2.07572	2.64929	0.1758381	0.25979272	2.4324919	20	—	—
440357 2004 VO_{2}	16.2	X	257.39093	210.66966	223.63220	7.77732	0.1610523	0.17631625	3.1497385	20	8 17.5	21.0
440358 2004 VY_{10}	15.5	X	310.43010	9.48806	359.98762	17.42297	0.2112657	0.17640571	3.1486735	20	8 13.1	19.3
440359 2004 VC_{77}	15.9	X	237.37900	19.11105	43.73339	6.81408	0.1464819	0.16936167	3.2353850	20	7 17.8	20.9
440360 2004 XC_{18}	16.4	X	327.77152	247.02039	175.37586	13.84227	0.1249815	0.24716203	2.5146731	20	12 16.8	19.4
440361 2004 XA_{36}	16.2	X	131.41453	71.70974	108.20168	32.18018	0.1512938	0.22417161	2.6837927	20	9 9.7	21.1
440362 2004 XX_{39}	17.7	X	35.10960	353.43617	78.38886	2.76553	0.1558298	0.26010849	2.4305228	20	—	—
440363 2004 XU_{51}	15.5	X	327.42805	89.20377	248.24208	24.40063	0.2965192	0.17435149	3.1733571	20	7 7.2	19.0
440364 2004 XR_{57}	17.0	X	12.22152	97.80673	256.61485	2.55015	0.2290359	0.24389190	2.5371012	20	12 11.5	19.8
440365 2004 XP_{58}	16.5	X	54.64933	276.32988	83.69925	14.38817	0.1581920	0.24985899	2.4965450	20	—	—
440366 2004 XS_{80}	15.5	X	247.24996	169.48308	267.33601	33.60019	0.1897810	0.23360524	2.6110448	20	7 28.4	20.0
440367 2004 XL_{87}	16.3	X	324.23617	106.51092	243.11782	11.68640	0.1719382	0.23860351	2.5744522	20	8 12.0	19.1
440368 2004 XP_{103}	16.7	X	322.90814	152.58277	234.99656	8.21680	0.1200219	0.24263905	2.5458272	20	10 13.9	19.4
440369 2005 AZ_{12}	17.4	X	287.95715	35.10312	70.20002	4.17102	0.1574468	0.24256327	2.5463574	20	11 29.5	19.8
440370 2005 AJ_{18}	15.9	X	160.23710	239.43698	314.11958	29.93606	0.2277509	0.22727684	2.6592914	20	9 24.9	21.2
440371 2005 AG_{23}	16.8	X	325.36036	307.64065	91.23066	8.26106	0.3150318	0.24137108	2.5547352	20	11 14.5	18.0
440372 2005 AJ_{30}	16.3	X	324.59917	68.84150	9.02562	14.26051	0.2849904	0.24491622	2.5300223	20	—	—
440373 2005 AE_{74}	17.4	X	286.51118	146.04638	308.17820	7.26643	0.1068589	0.23924031	2.5698818	20	11 13.3	20.5
440374 2005 BY_{28}	17.4	X	302.16316	63.77882	38.70019	4.81583	0.1804037	0.24365380	2.5387538	20	12 22.9	19.6
440375 2005 BD_{49}	16.9	X	324.28013	184.90537	253.43363	12.48112	0.1342612	0.24448294	2.5330106	20	12 30.7	19.5
440376 2005 CN_{18}	16.5	X	208.27398	2.20656	135.41615	15.09321	0.0801138	0.23064021	2.6333749	20	10 5.1	20.5
440377 2005 CC_{36}	17.0	X	175.85766	40.37145	118.65895	8.43303	0.2015807	0.22748173	2.6576943	20	9 18.9	21.5
440378 2005 CN_{47}	16.6	X	347.48360	264.01090	146.44235	28.28334	0.1781095	0.24158131	2.5532529	20	—	—
440379 2005 CS_{47}	16.6	X	212.86386	203.86538	321.81891	14.51302	0.0709494	0.23439647	2.6051656	20	11 5.9	20.6
440380 2005 CD_{61}	17.0	X	196.74431	185.63302	338.88256	14.11381	0.0708512	0.23148117	2.6269931	20	10 15.4	21.0
440381 2005 EN_{91}	16.6	X	44.51301	21.37445	347.60622	30.02348	0.1724193	0.23714352	2.5850079	20	—	—
440382 2005 ET_{122}	17.2	X	311.67493	93.96110	334.58252	13.55184	0.1439726	0.23698843	2.5861356	20	11 15.8	20.2
440383 2005 EK_{126}	16.6	X	86.20439	58.80711	185.57417	7.55141	0.1749467	0.21710083	2.7417534	20	10 9.1	20.6
440384 2005 EO_{238}	16.5	X	143.70565	176.87323	6.27566	13.80146	0.0689022	0.22093925	2.7099054	20	9 16.9	20.5
440385 2005 ED_{243}	16.5	X	85.99475	259.29826	9.09912	11.24340	0.1813292	0.22260469	2.6963722	20	11 4.9	20.8
440386 2005 EP_{251}	16.8	X	119.39134	143.82010	52.70743	5.52552	0.2419486	0.21790376	2.7350141	20	9 17.9	21.5
440387 2005 GO_{36}	18.5	X	253.58991	142.31795	94.33584	0.39292	0.1246548	0.31096250	2.1577314	20	—	—
440388 2005 GM_{57}	17.1	X	75.19978	239.11300	31.22395	7.99712	0.0709875	0.21984043	2.7189277	20	10 17.5	20.9
440389 2005 GP_{68}	16.9	X	152.02665	69.35482	97.21578	14.42881	0.2025509	0.21931956	2.7232309	20	9 10.3	21.8
440390 2005 GG_{176}	17.1	X	16.63357	166.53160	102.52177	6.60367	0.2270116	0.20514528	2.8472681	20	8 11.8	19.9
440391 2005 GF_{198}	17.1	X	359.63483	213.98467	204.39427	4.43087	0.2186977	0.23568642	2.5956513	20	—	—
440392 2005 GO_{200}	17.9	X	61.09654	272.82508	346.18815	14.22447	0.2987992	0.21773641	2.7364153	20	10 10.3	22.2
440393 2005 JQ_{20}	17.1	X	114.75953	83.18644	108.05848	9.28424	0.3162737	0.21382070	2.7697223	20	9 12.9	22.1
440394 2005 JN_{32}	17.4	X	66.82407	72.36683	209.80876	1.82340	0.1576139	0.21622251	2.7491733	20	11 1.7	21.3
440395 2005 JH_{120}	17.2	X	110.44055	123.88660	105.17604	5.20073	0.1487925	0.21606388	2.7505187	20	10 13.7	21.5
440396 2005 JO_{156}	16.2	X	289.54670	107.50741	234.95398	8.58371	0.0621148	0.20143081	2.8821646	20	6 20.3	20.0
440397 2005 LU_{20}	17.0	X	144.80736	95.24200	99.95412	9.62320	0.1382277	0.21668049	2.7452981	20	10 6.8	21.5
440398 2005 MN_{14}	18.0	X	167.75767	178.64535	138.22232	7.55028	0.2021543	0.29757820	2.2219553	20	—	—
440399 2005 NW_{3}	16.7	X	66.19359	115.31626	126.39314	16.14085	0.2194295	0.20395754	2.8583113	20	9 22.8	21.1
440400 2005 NQ_{19}	18.1	X	228.68219	323.22637	293.60097	5.95197	0.1477453	0.30057213	2.2071757	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
440401 2005 NS_{28}	18.2	X	182.59372	171.77052	147.88019	6.96042	0.2043752	0.30049129	2.2075715	20	1 13.4	21.6
440402 2005 NO_{41}	18.4	X	122.79336	188.00950	192.03865	1.03573	0.1729945	0.29883477	2.2157222	20	1 25.3	20.9
440403 2005 ND_{45}	18.5	X	161.76733	171.37654	176.54252	4.58431	0.2120685	0.30059104	2.2070831	20	1 29.9	21.9
440404 2005 NT_{64}	18.8	X	151.41107	131.77117	210.45474	2.33558	0.2216371	0.29758009	2.2219458	20	1 14.5	21.9
440405 2005 NW_{67}	16.5	X	346.34834	38.28769	286.58298	7.26194	0.0949834	0.20023498	2.8936284	20	8 18.5	20.1
440406 2005 OK_{1}	17.5	X	1.01716	266.73617	70.08952	8.18642	0.3610024	0.20100789	2.8862059	20	11 7.5	19.9
440407 2005 OU_{21}	17.7	X	148.74702	228.76267	143.14795	4.93205	0.1867420	0.29998125	2.2100731	20	2 15.6	20.7
440408 2005 PM_{3}	16.7	X	326.51122	108.61582	265.63501	11.18722	0.2520139	0.19862886	2.9092061	20	9 8.9	19.5
440409 2005 QZ_{4}	17.8	X	233.12834	234.38558	145.23866	22.98616	0.0934635	0.38536763	1.8701907	20	5 30.3	20.6
440410 2005 QA_{25}	18.0	X	52.22351	358.48764	57.63955	2.58751	0.1657319	0.28574342	2.2828912	20	—	—
440411 2005 QS_{28}	16.4	X	358.82697	359.66783	315.25896	9.72700	0.1037092	0.19857306	2.9097510	20	8 26.4	19.9
440412 2005 QG_{32}	17.0	X	319.60690	53.31902	332.54071	11.62496	0.2929629	0.19691000	2.9261115	20	9 8.8	19.3
440413 2005 QD_{34}	16.5	X	329.47707	28.90779	331.78825	7.83400	0.1633522	0.19715356	2.9237010	20	9 6.7	19.7
440414 2005 QY_{62}	17.0	X	344.90560	30.83760	348.37381	12.49816	0.1342555	0.20268588	2.8702544	20	10 28.6	20.4
440415 2005 QR_{68}	16.1	X	357.24389	22.98456	349.49550	23.63770	0.2614171	0.20457758	2.8525331	20	11 24.1	19.6
440416 2005 QR_{80}	17.7	X	109.03209	204.20012	125.98946	4.50956	0.1842912	0.28631127	2.2798718	20	—	—
440417 2005 QS_{80}	17.7	X	87.67266	36.68537	5.44007	5.93914	0.1830296	0.29199649	2.2501819	20	1 6.7	19.7
440418 2005 QL_{83}	18.2	X	167.55880	85.62533	233.52832	2.40461	0.1999997	0.29483998	2.2356911	20	—	—
440419 2005 QE_{114}	17.9	X	161.31095	314.48651	26.36927	4.44043	0.1736116	0.29582456	2.2307277	20	1 19.8	21.1
440420 2005 QW_{129}	16.4	X	276.51243	225.32377	144.76473	8.72686	0.0722138	0.18786266	3.0193194	20	7 6.9	20.6
440421 2005 QT_{170}	17.4	X	128.26958	73.29865	299.12712	6.44600	0.2144052	0.29426159	2.2386197	20	1 28.4	20.3
440422 2005 QX_{180}	18.1	X	171.65303	141.03122	184.48983	7.53073	0.1868184	0.29610960	2.2292959	20	1 9.4	21.6
440423 2005 RB_{15}	16.6	X	226.71524	80.96384	341.52934	3.74668	0.1352259	0.18624811	3.0367436	20	7 7.2	21.3
440424 2005 RM_{22}	17.6	X	139.42713	92.50585	276.42506	4.63838	0.1990793	0.29514498	2.2341506	20	2 2.5	20.6
440425 2005 RG_{33}	17.5	X	97.23466	195.97711	194.68072	5.53128	0.2186485	0.28997482	2.2606285	20	1 11.2	19.8
440426 2005 RC_{45}	16.7	X	332.01171	352.65472	346.58653	3.29166	0.2471966	0.19059431	2.9904010	20	8 6.7	19.4
440427 2005 RF_{48}	16.5	X	272.36245	333.66385	64.29287	10.25201	0.0781182	0.18790986	3.0188138	20	8 10.2	20.8
440428 2005 RU_{51}	16.5	X	229.37864	188.83496	187.43489	4.63833	0.1608154	0.18077482	3.0977337	20	5 11.9	21.4
440429 2005 SK_{8}	17.1	X	324.08248	159.28857	202.86400	8.72100	0.1285574	0.19293299	2.9661861	20	8 29.2	20.6
440430 2005 SO_{8}	17.6	X	70.74499	163.41074	195.61000	5.11308	0.1862512	0.27980646	2.3150705	20	—	—
440431 2005 SF_{21}	16.6	X	261.65341	94.41032	291.27889	3.77022	0.1402659	0.18309245	3.0715371	20	6 28.5	21.1
440432 2005 SR_{21}	15.7	X	271.58735	219.37255	144.56810	25.31363	0.3163556	0.18225931	3.0808903	20	5 26.9	21.0
440433 2005 SA_{22}	18.1	X	125.57609	199.91415	145.31217	3.80202	0.1695910	0.28931116	2.2640843	20	—	—
440434 2005 SL_{22}	16.6	X	253.30335	259.05293	92.92787	3.07997	0.2321377	0.18002953	3.1062772	20	4 28.9	21.6
440435 2005 SZ_{22}	18.1	X	76.17185	7.36082	24.37670	6.35780	0.1537762	0.28662878	2.2781878	20	—	—
440436 2005 SB_{31}	18.0	X	94.03353	239.10004	137.00428	2.15591	0.1640282	0.28676886	2.2774458	20	—	—
440437 2005 SM_{32}	17.3	X	308.36192	288.66846	87.04932	3.41502	0.1928667	0.19091565	2.9870445	20	8 16.3	20.7
440438 2005 SS_{38}	16.5	X	260.39164	179.66815	191.34721	9.78019	0.0813652	0.18244709	3.0787759	20	6 16.4	21.0
440439 2005 SA_{40}	16.2	X	263.80422	38.62100	13.29418	7.98874	0.1154291	0.18873302	3.0100298	20	8 10.9	20.4
440440 2005 SO_{43}	17.9	X	202.89637	285.14068	353.70486	6.62929	0.1210524	0.29080581	2.2563198	20	—	—
440441 2005 SJ_{45}	18.1	X	92.12858	134.72742	207.91304	4.25871	0.2152670	0.28181164	2.3040758	20	—	—
440442 2005 SP_{45}	16.3	X	316.38719	306.45060	9.73693	10.74826	0.0995683	0.18331996	3.0689952	20	6 18.5	20.4
440443 2005 SN_{47}	16.3	X	183.35330	119.60009	4.94332	11.59729	0.0836667	0.18667942	3.0320644	20	8 15.7	21.0
440444 2005 SU_{48}	17.0	X	332.61176	104.40881	195.86879	3.65976	0.2799911	0.18695908	3.0290400	20	6 4.1	19.8
440445 2005 SG_{59}	16.9	X	297.54936	322.63721	25.24767	0.96741	0.1930855	0.18580398	3.0415809	20	6 18.9	20.9
440446 2005 SS_{74}	16.7	X	246.36743	155.05044	186.37455	11.40685	0.0806618	0.17645213	3.1481212	20	4 25.3	21.4
440447 2005 SD_{75}	18.2	X	69.10218	221.77261	184.65168	5.89087	0.0963665	0.28788816	2.2715389	20	—	—
440448 2005 SH_{76}	18.1	X	147.33526	330.51835	7.99147	5.53075	0.1811099	0.29253523	2.2474184	20	1 2.7	21.1
440449 2005 SJ_{76}	17.1	X	338.92396	144.36811	187.23929	6.17627	0.1969453	0.19276757	2.9678827	20	8 12.3	20.1
440450 2005 SE_{88}	16.3	X	199.17843	113.53665	358.40775	10.41698	0.0780216	0.18700535	3.0285403	20	8 16.4	20.9
440451 2005 SD_{92}	16.1	X	298.58628	337.05570	16.58506	9.73213	0.0729517	0.18503019	3.0500549	20	7 18.7	20.3
440452 2005 SL_{92}	18.3	X	137.20405	133.34385	201.93165	3.80676	0.1603364	0.28871021	2.2672250	20	—	—
440453 2005 SP_{97}	16.1	X	297.77027	340.18202	20.26492	10.87083	0.1128673	0.18816463	3.0160883	20	7 21.9	20.2
440454 2005 SO_{98}	17.5	X	29.33256	191.10417	243.42032	6.01602	0.1429448	0.28276015	2.2989203	20	—	—
440455 2005 SZ_{132}	16.5	X	289.00063	140.85735	211.08666	10.97087	0.0888100	0.18245721	3.0786622	20	6 26.8	20.9
440456 2005 SR_{149}	16.8	X	304.17108	277.24178	82.49003	2.13124	0.1529518	0.18776841	3.0203298	20	7 22.2	20.3
440457 2005 SG_{151}	16.6	X	287.37889	286.42843	75.18525	2.21472	0.1288471	0.18485402	3.0519924	20	7 2.4	20.5
440458 2005 SW_{158}	16.2	X	329.90203	317.13144	0.00445	9.79469	0.1183622	0.18577776	3.0418671	20	7 13.1	20.0
440459 2005 SB_{160}	16.0	X	243.49629	185.85991	166.30692	23.16024	0.0811632	0.18043193	3.1016571	20	5 8.0	21.0
440460 2005 ST_{174}	16.3	X	311.49946	129.42396	223.31006	9.97774	0.1140634	0.18915215	3.0055817	20	7 26.2	20.3
440461 2005 SY_{175}	18.1	X	161.23331	87.37455	245.48595	3.82194	0.1498306	0.29324060	2.2438129	20	1 5.8	21.1
440462 2005 SC_{176}	18.4	X	65.48552	50.40729	357.85803	10.44737	0.1028145	0.28627131	2.2800839	20	—	—
440463 2005 SN_{182}	18.2	X	160.27344	79.74096	216.40037	5.52398	0.1882499	0.28734851	2.2743821	20	—	—
440464 2005 SH_{198}	16.1	X	275.18050	33.13121	347.89652	9.39840	0.1184143	0.18898793	3.0073225	20	7 15.2	20.3
440465 2005 ST_{200}	18.2	X	172.05280	236.47509	36.14544	2.10554	0.1454362	0.28554409	2.2839536	20	—	—
440466 2005 SH_{208}	16.4	X	328.04784	336.33822	357.14006	15.50361	0.1020106	0.18918507	3.0052329	20	8 6.9	20.3
440467 2005 SS_{221}	16.8	X	296.80148	82.98165	303.48177	12.51837	0.2850295	0.18866514	3.0107517	20	7 25.1	20.4
440468 2005 SM_{240}	16.1	X	124.03202	313.87721	225.49209	12.07821	0.0625805	0.18671218	3.0317097	20	8 9.9	20.8
440469 2005 SU_{241}	17.4	X	184.69585	23.41804	249.02321	4.24600	0.1313718	0.28606952	2.2811560	20	—	—
440470 2005 SF_{242}	16.3	X	239.33444	211.45390	210.31046	17.00317	0.2144173	0.18360224	3.0658487	20	7 7.5	21.5
440471 2005 SA_{243}	18.1	X	146.85758	83.41326	203.21308	9.52380	0.1322294	0.28100282	2.3084949	20	—	—
440472 2005 SA_{257}	16.7	X	335.79995	16.69354	317.46471	2.52428	0.1705809	0.19265995	2.9689879	20	8 12.3	19.7
440473 2005 SO_{263}	18.1	X	63.80966	324.56148	85.95267	3.14949	0.1952247	0.28482151	2.2878148	20	—	—
440474 2005 SU_{263}	17.8	X	139.92646	199.29108	142.92258	3.42209	0.2059968	0.29014700	2.2597341	20	1 1.9	20.9
440475 2005 SB_{269}	16.9	X	303.42139	317.06736	66.59798	2.97414	0.0820617	0.19126146	2.9834429	20	9 2.3	20.6
440476 2005 SQ_{271}	15.7	X	297.44070	353.25984	342.17338	19.98684	0.1139795	0.18361262	3.0657332	20	6 13.8	20.2
440477 2005 SK_{288}	16.3	X	247.76009	21.64096	63.73246	12.24812	0.0574151	0.19159950	2.9799327	20	9 15.3	20.7
440478 2005 ST_{288}	16.1	X	31.42908	120.46113	144.40703	12.73225	0.0647885	0.18491964	3.0512704	20	8 5.9	20.2
440479 2005 TX_{6}	18.3	X	245.83072	54.84940	4.24287	20.13891	0.1326263	0.38790463	1.8620274	20	8 21.5	20.3
440480 2005 TU_{13}	16.8	X	281.37895	183.35473	214.49733	7.21035	0.2373404	0.18850747	3.0124303	20	7 22.9	20.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
440481 2005 TX_{13}	18.1	X	157.05971	129.56283	180.08222	5.22990	0.1630598	0.29035926	2.2586326	20	—	—
440482 2005 TY_{16}	17.9	X	141.78978	302.68961	57.38558	0.98867	0.2529725	0.29474964	2.2361479	20	2 1.3	20.9
440483 2005 TY_{45}	17.3	X	106.37898	162.71730	184.60506	6.23011	0.1294114	0.28323867	2.2963303	20	—	—
440484 2005 TO_{47}	17.1	X	288.76237	164.45519	215.48365	5.29851	0.2227420	0.18653288	3.0336521	20	7 12.9	21.1
440485 2005 TR_{47}	17.9	X	13.23158	173.59754	213.80010	4.33322	0.1468167	0.27153878	2.3618273	20	—	—
440486 2005 TB_{50}	18.0	X	146.00716	33.87153	298.79576	2.30794	0.2540190	0.29057570	2.2575109	20	1 2.2	21.0
440487 2005 TS_{60}	17.0	X	295.27762	9.46529	0.38285	9.44801	0.1164250	0.18852735	3.0122185	20	7 30.3	21.0
440488 2005 TE_{84}	18.5	X	17.89697	98.75257	337.94385	3.31953	0.1302750	0.28107204	2.3081159	20	—	—
440489 2005 TT_{85}	17.1	X	326.10074	134.60620	204.11235	15.64455	0.2475192	0.19082577	2.9879824	20	7 17.2	20.5
440490 2005 TM_{101}	17.8	X	108.36844	283.05277	90.44678	4.16688	0.1842436	0.28841760	2.2687582	20	—	—
440491 2005 TA_{102}	17.2	X	347.06535	353.78930	307.75430	2.63238	0.2857780	0.18956816	3.0011828	20	7 16.2	19.5
440492 2005 TK_{106}	16.9	X	296.27170	152.75841	226.45585	2.11566	0.1458615	0.18806458	3.0171579	20	8 4.9	20.7
440493 2005 TU_{110}	17.8	X	168.96753	357.12844	281.44356	2.88069	0.1717275	0.28712819	2.2755453	20	—	—
440494 2005 TW_{111}	16.7	X	303.75394	352.07299	5.15824	10.37307	0.0947600	0.18809611	3.0168208	20	7 29.6	20.8
440495 2005 TZ_{112}	16.6	X	267.86706	100.20540	207.40233	9.08537	0.0743688	0.17342328	3.1846701	20	4 7.1	21.2
440496 2005 TA_{134}	16.4	X	312.35351	92.73588	260.24901	8.02851	0.1510691	0.18916573	3.0054378	20	7 24.6	20.0
440497 2005 TX_{141}	18.5	X	97.18079	247.59986	117.24143	2.76050	0.1242241	0.28504868	2.2865991	20	—	—
440498 2005 TO_{144}	17.8	X	95.00089	318.09995	69.81691	4.40598	0.1620521	0.28798516	2.2710288	20	—	—
440499 2005 TZ_{146}	16.7	X	230.14450	357.60577	84.14383	4.53730	0.0658937	0.18726760	3.0257122	20	8 12.9	21.0
440500 2005 TP_{162}	16.5	X	148.79212	251.28220	218.99605	10.31580	0.0252579	0.17710100	3.1404270	20	6 13.6	21.1
440501 2005 TX_{166}	17.8	X	0.09779	103.34748	18.20964	5.46903	0.1383576	0.28338877	2.2955194	20	—	—
440502 2005 TG_{187}	16.9	X	297.05209	175.66085	114.91408	2.23311	0.1597210	0.17832447	3.1260464	20	4 11.1	21.0
440503 2005 TW_{193}	16.4	X	75.09917	191.35589	34.87184	10.02997	0.0400660	0.18587824	3.0407707	20	8 16.7	20.8
440504 2005 TY_{193}	16.6	X	301.12899	70.87155	250.18126	4.18237	0.1748746	0.18117368	3.0931856	20	5 22.2	20.4
440505 2005 TC_{194}	17.3	X	314.81170	272.83335	89.59000	3.72067	0.2278647	0.19021249	2.9944015	20	8 4.4	20.4
440506 2005 TC_{196}	17.0	X	293.88380	172.26931	209.62154	12.79825	0.1190967	0.19047167	2.9916845	20	8 5.5	21.2
440507 2005 UF_{25}	16.6	X	288.27400	109.14949	229.52447	5.88472	0.1227811	0.17983914	3.1084693	20	6 4.5	20.8
440508 2005 UW_{27}	16.5	X	358.51376	69.52701	238.79792	1.51274	0.1786129	0.18874145	3.0099401	20	8 20.9	19.6
440509 2005 UW_{30}	17.1	X	335.24693	126.71035	212.02758	3.63034	0.2053917	0.18974499	2.9993179	20	8 13.9	20.1
440510 2005 UD_{35}	16.3	X	295.79771	159.86849	225.93823	11.15919	0.0793122	0.18668943	3.0319561	20	8 18.1	20.6
440511 2005 UM_{35}	17.6	X	252.29870	3.05972	50.61220	1.77625	0.2014595	0.18216634	3.0819384	20	7 15.5	22.2
440512 2005 UZ_{35}	17.8	X	260.90253	123.73956	49.62240	7.84228	0.0869423	0.27390055	2.3482308	20	—	—
440513 2005 UB_{36}	16.9	X	212.97111	35.81971	30.07614	0.54634	0.1660492	0.17660021	3.1463612	20	6 24.8	21.9
440514 2005 US_{39}	16.9	X	275.80391	312.55192	66.38891	1.67092	0.1789138	0.18158993	3.0884569	20	7 1.7	21.0
440515 2005 UT_{41}	18.9	X	83.78542	26.13916	21.63333	4.34987	0.2438369	0.28707927	2.2758039	20	1 20.1	20.8
440516 2005 US_{56}	17.9	X	68.15425	46.08981	355.56227	5.55435	0.1608625	0.28361176	2.2943159	20	—	—
440517 2005 UQ_{60}	16.6	X	286.33801	291.95230	55.01460	2.40102	0.0889520	0.17840574	3.1250970	20	6 17.5	20.9
440518 2005 UQ_{70}	15.7	X	255.12363	159.29493	249.02293	8.56894	0.0580223	0.18524347	3.0477133	20	7 28.5	20.2
440519 2005 UT_{72}	17.0	X	283.35705	206.39317	209.90707	4.30514	0.3275598	0.18870470	3.0103309	20	8 5.2	21.1
440520 2005 UP_{82}	18.6	X	63.76789	12.23894	44.63842	1.18052	0.1948452	0.28501576	2.2867751	20	—	—
440521 2005 UW_{84}	16.6	X	312.66669	127.26000	209.16587	8.53053	0.1044506	0.18346478	3.0673800	20	7 8.4	20.7
440522 2005 UQ_{87}	16.9	X	305.63327	303.05996	44.98401	10.51053	0.1131422	0.18452951	3.0555695	20	7 15.4	20.9
440523 2005 UH_{88}	17.6	X	141.20544	272.16573	55.69005	3.00905	0.1871642	0.28757126	2.2732074	20	—	—
440524 2005 UA_{89}	16.7	X	312.67762	342.85127	344.11372	6.28503	0.1195200	0.18201379	3.0836603	20	6 25.7	20.7
440525 2005 UX_{89}	17.8	X	40.45673	104.61941	317.40652	4.28677	0.1184999	0.28105563	2.3082058	20	—	—
440526 2005 UD_{92}	15.7	X	108.07765	284.63615	250.09232	9.74731	0.0791486	0.17807657	3.1289469	20	7 20.1	20.4
440527 2005 UJ_{95}	16.8	X	232.99109	312.86787	99.40984	2.60482	0.1861539	0.17900041	3.1181718	20	6 25.4	21.7
440528 2005 UN_{99}	16.2	X	257.83046	335.46974	74.01391	10.53323	0.0545588	0.18349461	3.0670475	20	8 8.7	20.7
440529 2005 UB_{100}	16.6	X	253.87039	196.34120	204.65783	10.97902	0.2086840	0.18129345	3.0918232	20	6 28.9	21.5
440530 2005 UU_{101}	17.8	X	57.56103	269.87460	87.31526	3.27676	0.2339397	0.27581779	2.3373363	20	—	—
440531 2005 UX_{105}	18.0	X	85.34229	222.70827	164.83079	2.57270	0.2168680	0.28412560	2.2915489	20	—	—
440532 2005 UE_{120}	18.4	X	67.04783	15.00063	21.28258	2.08159	0.1409631	0.28285204	2.2984224	20	—	—
440533 2005 UD_{129}	16.9	X	237.53318	162.15633	236.02249	0.28421	0.1443234	0.17795385	3.1303853	20	6 16.5	21.7
440534 2005 UA_{136}	16.4	X	253.94345	23.38406	28.78224	11.97041	0.0703016	0.18686237	3.0300850	20	8 7.1	20.9
440535 2005 UA_{147}	16.4	X	268.38364	121.67132	255.33952	4.27657	0.1466526	0.18115447	3.0934043	20	6 24.4	20.7
440536 2005 UL_{152}	17.7	X	181.43357	52.86336	239.27558	5.49924	0.0771601	0.28396634	2.2924057	20	—	—
440537 2005 UK_{158}	17.7	X	93.16388	248.48600	232.66500	19.56064	0.0784010	0.36947684	1.9234367	20	4 13.0	19.6
440538 2005 UJ_{165}	17.3	X	275.94919	148.73346	208.32517	0.56772	0.0917131	0.18002498	3.1063296	20	6 16.5	21.6
440539 2005 UA_{177}	16.9	X	293.62348	357.23938	8.16582	2.06719	0.1917190	0.18392013	3.0623151	20	7 6.9	20.8
440540 2005 UR_{180}	16.0	X	265.60378	150.29504	223.20617	12.79308	0.0528764	0.17736188	3.1373468	20	6 28.4	20.6
440541 2005 UH_{186}	16.3	X	225.51472	8.20679	59.32567	9.21337	0.1619120	0.17794500	3.1304890	20	7 9.7	21.4
440542 2005 UW_{195}	16.9	X	299.89184	171.67163	195.91586	4.97330	0.1816831	0.18801529	3.0176852	20	7 20.0	20.6
440543 2005 UQ_{196}	16.6	X	318.69531	231.15974	72.93125	2.13798	0.1754510	0.18055062	3.1002976	20	5 27.5	20.3
440544 2005 UU_{218}	16.4	X	280.58744	108.12169	231.52428	16.40931	0.2576574	0.18106858	3.0943824	20	5 6.9	20.9
440545 2005 UQ_{222}	16.6	X	198.31772	232.75820	239.99206	5.29949	0.0592839	0.18476894	3.0529292	20	8 11.9	21.2
440546 2005 UT_{224}	16.9	X	311.30656	82.97060	260.11913	4.61906	0.1476769	0.18536855	3.0463422	20	7 10.9	20.5
440547 2005 UJ_{225}	17.0	X	335.05832	44.94404	296.46518	3.32538	0.1609074	0.18980732	2.9986612	20	8 20.3	20.1
440548 2005 UD_{236}	17.5	X	326.45956	338.85286	77.98263	7.02909	0.1017891	0.26560397	2.3968803	20	12 10.7	19.8
440549 2005 UN_{237}	16.9	X	316.26801	141.71088	209.33299	11.15433	0.1269017	0.18490875	3.0513902	20	7 29.6	20.9
440550 2005 UX_{253}	16.3	X	260.43516	344.42684	35.68430	5.71805	0.1666490	0.18199257	3.0839000	20	6 15.9	20.9
440551 2005 US_{254}	16.6	X	338.00491	223.58953	70.74677	7.47794	0.0315592	0.17738860	3.1370317	20	6 27.6	20.9
440552 2005 UF_{261}	16.7	X	272.01503	154.98108	215.47391	5.12080	0.1672636	0.17865294	3.1222136	20	6 17.5	21.2
440553 2005 UH_{261}	16.4	X	263.28893	187.94095	228.13213	10.81050	0.2237119	0.18320458	3.0702837	20	7 24.2	21.1
440554 2005 UP_{263}	17.0	X	184.20951	318.96161	118.62320	2.03521	0.0635015	0.17581301	3.1557460	20	6 14.5	21.7
440555 2005 UX_{264}	16.6	X	223.43629	2.61686	56.08081	0.74631	0.1855069	0.17938711	3.1136889	20	6 24.4	21.6
440556 2005 UD_{265}	17.1	X	188.03571	345.26853	109.17735	2.58380	0.1763202	0.17509366	3.1643834	20	7 6.6	22.3
440557 2005 UG_{278}	18.2	X	107.14947	344.51874	36.38360	2.26147	0.2187033	0.28807074	2.2705790	20	1 14.9	20.5
440558 2005 UN_{297}	16.7	X	230.05972	202.74957	211.88628	0.43143	0.1619434	0.17776180	3.1326395	20	6 27.6	21.6
440559 2005 UO_{299}	16.5	X	296.48224	270.88229	53.66222	10.87234	0.1014244	0.17669181	3.1452737	20	5 30.5	20.8
440560 2005 UA_{311}	17.1	X	206.26767	345.04145	94.02963	2.17323	0.1495376	0.17979211	3.1090113	20	7 5.7	22.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
440561 2005 UM_{324}	18.1	X	76.37064	280.33798	75.55328	3.23744	0.2250647	0.27887889	2.3202011	20	—	—
440562 2005 UD_{325}	17.0	X	258.40707	326.74950	60.60484	3.49003	0.1307462	0.18346985	3.0673234	20	6 27.9	21.5
440563 2005 US_{327}	18.3	X	153.67091	332.17767	5.38243	3.40541	0.1853886	0.28810414	2.2704035	20	1 9.5	21.5
440564 2005 UX_{329}	17.2	X	256.97378	271.79721	115.66673	2.26975	0.1948583	0.17963228	3.1108552	20	6 18.1	21.9
440565 2005 UX_{331}	16.2	X	296.78853	278.90972	69.59586	11.48644	0.0907102	0.18083116	3.0970903	20	7 4.0	20.4
440566 2005 UG_{332}	16.6	X	328.89801	344.62097	354.57624	2.63911	0.2873999	0.19003021	2.9963160	20	7 24.6	19.1
440567 2005 UK_{355}	17.6	X	59.26093	110.01537	261.85493	5.84536	0.2449054	0.27702169	2.3305595	20	—	—
440568 2005 UP_{360}	16.6	X	59.89054	215.81411	36.51555	12.43191	0.0597551	0.18795752	3.0183035	20	9 4.6	20.9
440569 2005 UX_{382}	17.6	X	136.72729	263.51130	73.98350	7.34362	0.1845066	0.28699697	2.2762389	20	—	—
440570 2005 UJ_{385}	16.3	X	290.48542	55.37628	291.66601	3.78670	0.1357438	0.18134496	3.0912376	20	6 16.3	20.4
440571 2005 UX_{395}	18.4	X	100.21002	37.48892	342.44508	5.00073	0.2402508	0.28660338	2.2783224	20	1 7.2	20.6
440572 2005 UG_{404}	16.9	X	231.00028	299.17124	113.29828	2.27810	0.1850783	0.17999436	3.1066819	20	6 23.9	21.8
440573 2005 UL_{407}	18.8	X	76.53990	284.98247	118.76826	2.03403	0.1032283	0.28650342	2.2788523	20	—	—
440574 2005 UE_{422}	16.3	X	248.09715	200.17813	221.45340	10.53583	0.0577515	0.18491216	3.0513527	20	8 4.6	20.9
440575 2005 UG_{424}	17.3	X	328.72414	106.81649	231.33516	2.66712	0.1770590	0.18838514	3.0137343	20	8 1.5	20.5
440576 2005 UN_{427}	17.8	X	133.56510	307.20835	26.23508	5.02628	0.2409186	0.28588938	2.2821142	20	—	—
440577 2005 UL_{446}	15.7	X	256.98709	179.20271	243.32304	10.21846	0.0913372	0.18755811	3.0225870	20	8 11.8	20.1
440578 2005 UT_{467}	17.9	X	82.96382	10.95504	20.89081	7.54054	0.1219346	0.28372095	2.2937273	20	—	—
440579 2005 UW_{467}	16.9	X	316.42919	334.83670	14.46051	6.72992	0.1947942	0.18617421	3.0375472	20	7 25.2	20.4
440580 2005 UG_{473}	17.8	X	85.71074	139.65858	251.45730	6.41991	0.1462234	0.28313211	2.2969064	20	—	—
440581 2005 UM_{477}	15.8	X	215.46027	126.39519	295.88327	7.91231	0.0986524	0.17973237	3.1097002	20	6 27.9	20.6
440582 2005 UU_{484}	16.3	X	254.61914	270.58979	135.50894	8.28729	0.2215774	0.18315591	3.0708275	20	7 5.5	21.0
440583 2005 UA_{489}	16.7	X	302.95304	124.72208	244.56575	10.59505	0.1366875	0.18796484	3.0182252	20	7 31.2	20.6
440584 2005 UH_{501}	16.2	X	219.05029	347.40381	97.63903	13.26657	0.2372236	0.17934044	3.1142291	20	7 19.2	21.5
440585 2005 UT_{502}	16.4	X	281.71908	252.37642	135.58493	11.81741	0.2543839	0.18483538	3.0521976	20	7 9.4	20.7
440586 2005 UN_{508}	17.5	X	128.69575	191.45744	137.03990	6.66747	0.2336506	0.28551900	2.2840873	20	—	—
440587 2005 UU_{510}	16.6	X	267.12231	273.23570	108.98328	2.73536	0.1120916	0.17860150	3.1228130	20	7 4.5	20.9
440588 2005 UV_{511}	16.1	X	331.77982	62.90335	249.65425	10.95518	0.0692392	0.17826601	3.1267298	20	7 8.8	20.3
440589 2005 UM_{519}	16.9	X	283.98974	239.26412	171.90923	9.37660	0.2190756	0.19090841	2.9871200	20	8 17.1	20.9
440590 2005 UQ_{523}	16.7	X	279.92326	174.69633	182.06593	8.62377	0.1075904	0.18390491	3.0624841	20	6 19.1	21.1
440591 2005 UP_{525}	16.7	X	280.39722	324.77774	54.50279	11.30929	0.1528723	0.18263135	3.0767048	20	7 13.3	21.0
440592 2005 UE_{526}	16.9	X	316.56515	283.99739	56.65201	23.16607	0.2303800	0.18572717	3.0424195	20	7 4.5	20.7
440593 2005 UW_{526}	17.9	X	278.61867	129.47938	54.02573	9.49322	0.0520776	0.27736360	2.3286438	20	—	—
440594 2005 UH_{529}	16.5	X	243.24410	221.60630	240.96007	9.26729	0.0761472	0.18956985	3.0011650	20	9 17.4	21.0
440595 2005 VG_{8}	17.2	X	333.03625	129.85505	217.99191	1.34792	0.1217743	0.18994247	2.9972387	20	8 27.4	20.8
440596 2005 VY_{10}	16.4	X	231.35189	326.64244	90.16818	5.08134	0.2051156	0.17820489	3.1274447	20	6 27.7	21.5
440597 2005 VY_{25}	17.6	X	158.26534	21.44679	264.98093	4.99916	0.1289931	0.28160253	2.3052163	20	—	—
440598 2005 VR_{31}	17.0	X	290.12406	121.62147	230.94010	5.92529	0.1870605	0.18018054	3.1045414	20	6 15.1	21.1
440599 2005 VC_{32}	16.5	X	307.93477	289.43181	71.76276	6.71946	0.0965217	0.18322318	3.0700759	20	8 8.1	20.5
440600 2005 VD_{32}	18.4	X	43.87112	196.03857	221.06440	3.61099	0.2092907	0.27913811	2.3187644	20	—	—
440601 2005 VC_{33}	17.8	X	335.86346	32.81575	68.51737	5.61172	0.1757346	0.27199224	2.3592015	20	—	—
440602 2005 VT_{54}	16.3	X	306.36464	242.00490	66.32142	12.05123	0.0912780	0.17575491	3.1564415	20	5 25.9	20.4
440603 2005 VQ_{62}	18.5	X	146.57537	95.19984	223.73857	6.74119	0.1848259	0.28973886	2.2618557	20	—	—
440604 2005 VC_{66}	17.5	X	217.14385	144.93367	56.66359	7.70865	0.0744730	0.27324808	2.3519674	20	—	—
440605 2005 VS_{67}	16.5	X	288.98393	101.73486	238.15932	9.90218	0.0850098	0.17764569	3.1340044	20	6 12.4	20.7
440606 2005 VK_{72}	16.3	X	299.02834	306.77766	79.30818	4.49554	0.2132908	0.18691454	3.0295212	20	8 10.7	19.8
440607 2005 VB_{76}	17.6	X	122.63521	289.34155	72.18395	6.60184	0.1817677	0.28930555	2.2641136	20	1 3.4	20.2
440608 2005 VM_{80}	17.0	X	273.75203	263.94562	105.85671	2.17594	0.2271856	0.18255383	3.0775758	20	6 10.5	21.3
440609 2005 VQ_{95}	18.3	X	24.38734	338.98206	96.18079	3.06834	0.1979163	0.27746737	2.3280632	20	—	—
440610 2005 VJ_{101}	15.7	X	15.69403	237.44315	19.64577	14.29668	0.1059334	0.18064374	3.0992322	20	7 8.8	19.8
440611 2005 VO_{112}	15.5	X	231.08913	170.42064	243.93410	16.72101	0.1740913	0.17737729	3.1371650	20	6 25.5	20.6
440612 2005 VJ_{114}	18.2	X	6.92494	210.13216	243.22503	6.27413	0.0896529	0.27735969	2.3286657	20	—	—
440613 2005 VD_{117}	18.0	X	110.05900	118.88697	246.05921	3.50213	0.1825495	0.28524779	2.2855349	20	—	—
440614 2005 VM_{117}	16.6	X	249.45548	6.57449	32.65848	1.20008	0.1746156	0.17946925	3.1127389	20	6 27.2	21.3
440615 2005 VW_{117}	16.0	X	260.32195	277.06758	137.74353	12.29571	0.1799671	0.18328397	3.0693970	20	7 28.0	20.5
440616 2005 VA_{130}	17.9	X	156.31764	122.40165	176.40793	7.11173	0.1494581	0.28651203	2.2788066	20	—	—
440617 2005 WQ_{2}	16.1	X	230.96857	83.62276	12.29163	23.57920	0.2969563	0.18093509	3.0959042	20	8 17.6	21.7
440618 2005 WJ_{3}	16.1	X	187.23519	331.15924	116.87609	5.43509	0.2516829	0.17219902	3.1997467	20	6 26.8	21.7
440619 2005 WS_{9}	17.9	X	67.70306	165.80827	243.03844	5.82421	0.2214560	0.28277557	2.2988367	20	—	—
440620 2005 WG_{10}	15.9	X	280.10871	331.24514	63.12355	14.05417	0.1955339	0.18429371	3.0581753	20	7 28.0	20.2
440621 2005 WV_{12}	18.0	X	66.78388	93.53574	245.57772	5.03147	0.2269651	0.27269034	2.3551733	20	—	—
440622 2005 WV_{22}	16.0	X	61.51599	340.40455	253.66924	10.67939	0.0846430	0.17892285	3.1190728	20	8 6.1	20.5
440623 2005 WH_{27}	18.6	X	148.50770	318.55611	40.53180	2.57721	0.2918324	0.29213231	2.2494844	20	2 10.8	22.2
440624 2005 WS_{33}	15.9	X	298.22037	103.89796	268.95886	9.22245	0.1471013	0.18203475	3.0834235	20	7 28.1	19.9
440625 2005 WA_{34}	17.2	X	66.04654	330.73014	67.22663	10.27814	0.1913778	0.27931211	2.3178013	20	—	—
440626 2005 WG_{38}	18.2	X	71.26180	175.39400	209.06092	1.63427	0.2000674	0.27898497	2.3196129	20	—	—
440627 2005 WS_{45}	16.4	X	286.10232	289.35638	65.66106	10.48256	0.1073074	0.17760469	3.1344867	20	6 24.6	20.7
440628 2005 WL_{48}	15.6	X	318.01918	251.25828	71.86942	11.19575	0.1330924	0.17701534	3.1414401	20	6 26.5	19.5
440629 2005 WC_{51}	18.4	X	61.07373	130.12498	270.92416	1.42159	0.2141641	0.27933501	2.3176746	20	—	—
440630 2005 WH_{59}	15.6	X	236.25715	333.22965	93.73385	19.07858	0.1825641	0.17945616	3.1128902	20	7 17.3	20.5
440631 2005 WD_{65}	16.6	X	50.52764	180.31595	258.19357	23.45990	0.1742830	0.28870050	2.2672758	20	—	—
440632 2005 WN_{69}	16.5	X	247.12600	319.66237	79.11334	3.99444	0.0923980	0.17620756	3.1510335	20	7 4.0	21.0
440633 2005 WC_{71}	17.9	X	124.24178	58.66994	301.94665	3.80887	0.2986642	0.28841629	2.2687650	20	1 21.0	21.0
440634 2005 WN_{71}	16.1	X	256.28333	153.86596	272.00105	9.14608	0.1770666	0.18376069	3.0640862	20	8 4.5	20.7
440635 2005 WM_{72}	15.2	X	239.28397	165.60770	253.87071	16.21352	0.1044703	0.17909009	3.1171307	20	7 15.8	20.0
440636 2005 WM_{75}	18.3	X	47.80148	11.46180	33.31678	5.52366	0.1251820	0.27880484	2.3206119	20	—	—
440637 2005 WJ_{82}	17.8	X	135.00972	129.08110	218.11809	2.66474	0.2270574	0.28826728	2.2695468	20	1 5.8	20.7
440638 2005 WS_{83}	18.2	X	27.89799	66.72526	32.52641	1.74100	0.2025146	0.28161318	2.3051582	20	—	—
440639 2005 WP_{87}	15.7	X	247.54835	124.34599	273.37586	25.71294	0.1565703	0.17394249	3.1783296	20	6 25.1	20.5
440640 2005 WM_{90}	16.4	X	292.13045	136.91664	266.56060	6.97648	0.4414558	0.18720871	3.0263467	20	7 13.5	20.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
440641 2005 WK_{106}	17.2	X	285.76695	167.12926	217.50958	4.85926	0.1560299	0.18476529	3.0529694	20	7 24.8	21.3
440642 2005 WP_{107}	16.1	X	275.78251	311.12394	80.52612	10.26835	0.1125359	0.18235359	3.0798283	20	7 30.0	20.4
440643 2005 WL_{108}	18.3	X	31.81633	344.18499	77.59244	2.71673	0.1644479	0.27792496	2.3255072	20	—	—
440644 2005 WT_{116}	16.1	X	293.69061	283.03629	85.59084	11.76260	0.0796770	0.18006932	3.1058197	20	7 29.3	20.4
440645 2005 WB_{117}	17.7	X	59.27370	50.56763	350.75430	6.51031	0.1674033	0.28013614	2.3132538	20	—	—
440646 2005 WM_{127}	17.2	X	224.06649	184.43960	226.27582	0.93868	0.1784106	0.17613749	3.1518691	20	6 15.7	22.3
440647 2005 WY_{135}	16.4	X	324.46458	60.45204	256.15591	6.52817	0.1757563	0.17891529	3.1191607	20	6 23.8	19.9
440648 2005 WB_{164}	18.0	X	44.72157	300.89474	63.10904	4.37285	0.0358427	0.26721956	2.3872096	20	—	—
440649 2005 WO_{164}	17.4	X	316.40692	252.03189	86.97911	2.58975	0.2492596	0.18538920	3.0461159	20	6 29.9	20.8
440650 2005 WL_{166}	16.5	X	272.28198	1.70334	92.17241	11.59503	0.1214627	0.18824675	3.0152111	20	10 17.3	20.7
440651 2005 WN_{177}	17.7	X	88.15683	78.03385	283.95608	6.13319	0.1207558	0.27443849	2.3451612	20	—	—
440652 2005 WE_{178}	15.4	X	297.62274	243.92453	90.58817	28.19549	0.2893399	0.17567473	3.1574018	20	5 24.9	19.9
440653 2005 WK_{178}	17.6	X	41.47215	342.43937	82.48649	8.76501	0.1152072	0.27641493	2.3339688	20	—	—
440654 2005 WB_{184}	15.1	X	171.23767	211.20746	271.54807	25.04230	0.1383906	0.17316261	3.1878653	20	7 20.2	20.4
440655 2005 WQ_{207}	15.6	X	314.12143	61.98691	258.64021	25.64971	0.1355280	0.17634311	3.1494185	20	6 15.9	19.5
440656 2005 WJ_{208}	16.1	X	165.84232	41.11004	83.20667	11.16085	0.0775690	0.17436579	3.1731835	20	7 23.9	21.0
440657 2005 XM_{1}	16.0	X	344.27382	67.62577	253.76588	8.06819	0.0602586	0.18195838	3.0842862	20	8 7.6	20.2
440658 2005 XN_{14}	16.2	X	297.70374	263.28977	96.50426	15.80272	0.0273019	0.17685808	3.1433020	20	7 29.5	20.6
440659 2005 XF_{25}	17.3	X	280.88049	141.41780	265.79849	2.01668	0.1166005	0.18792485	3.0186533	20	8 23.6	21.3
440660 2005 XM_{28}	17.8	X	101.47292	240.13457	155.15031	5.26882	0.1995352	0.28713479	2.2755105	20	1 22.3	20.1
440661 2005 XG_{34}	17.1	X	253.24314	125.18792	242.39652	5.36178	0.1597044	0.17267344	3.1938831	20	5 24.5	21.9
440662 2005 XB_{36}	18.0	X	55.55775	322.80178	67.01920	3.83913	0.1514246	0.27425709	2.3461952	20	—	—
440663 2005 XO_{58}	16.7	X	310.63817	109.69443	258.21497	4.39370	0.2425688	0.18613928	3.0379272	20	7 29.8	20.2
440664 2005 XV_{61}	18.6	X	17.63538	268.38058	167.92392	1.08348	0.1535040	0.27829769	2.3234303	20	—	—
440665 2005 XT_{62}	16.4	X	300.16054	299.95464	56.29881	3.81067	0.0549374	0.17808125	3.1288921	20	7 24.6	20.6
440666 2005 XH_{63}	17.3	X	284.54112	223.01519	271.60710	6.25983	0.0446808	0.26778370	2.3838557	20	—	—
440667 2005 XV_{67}	16.3	X	246.58500	319.92850	62.33487	5.69225	0.1428367	0.17430475	3.1739243	20	6 6.2	21.1
440668 2005 XU_{81}	16.1	X	290.31836	242.58629	85.25676	15.60245	0.2018791	0.17260953	3.1946714	20	5 16.1	20.6
440669 2005 XJ_{82}	16.9	X	287.16640	321.84850	61.59420	10.31553	0.0989391	0.18252390	3.0779122	20	8 7.9	21.2
440670 2005 YL_{4}	17.9	X	88.74776	128.68303	282.22085	3.42094	0.2315909	0.28377074	2.2934590	20	1 30.4	20.1
440671 2005 YV_{16}	18.5	X	60.43066	139.08430	270.63198	1.53038	0.1973331	0.27669373	2.3324007	20	—	—
440672 2005 YU_{17}	18.0	X	261.37678	131.90028	51.69931	6.89434	0.0272068	0.27430905	2.3458989	20	—	—
440673 2005 YC_{19}	16.2	X	76.71422	295.82501	266.75796	6.58358	0.1282642	0.17163421	3.2067626	20	7 25.1	20.8
440674 2005 YJ_{19}	17.2	X	192.71566	173.12179	83.14151	8.33313	0.0849089	0.27367130	2.3495420	20	—	—
440675 2005 YP_{20}	17.1	X	135.96858	68.36035	96.98585	5.05640	0.1666946	0.23929624	2.5694813	20	8 21.9	21.2
440676 2005 YE_{27}	17.7	X	319.00140	155.23971	301.00847	5.68398	0.0913721	0.26369789	2.4084166	20	—	—
440677 2005 YJ_{31}	16.4	X	163.13123	359.30354	111.04209	6.73793	0.0959578	0.16744769	3.2599925	20	7 2.6	21.4
440678 2005 YU_{33}	16.5	X	207.95546	152.55982	287.49616	18.83156	0.1148066	0.17094911	3.2153246	20	7 10.2	21.3
440679 2005 YV_{36}	17.4	X	47.60324	102.01795	296.85950	11.38739	0.1662112	0.27178083	2.3604248	20	—	—
440680 2005 YW_{36}	17.9	X	326.53665	208.19854	188.65768	22.81222	0.5311597	0.19811098	2.9142738	20	9 11.8	18.5
440681 2005 YG_{37}	15.3	X	253.60133	114.75535	274.98751	25.35531	0.1968079	0.17768338	3.1335612	20	6 17.9	20.2
440682 2005 YX_{41}	17.6	X	51.56949	129.64664	304.81550	4.00721	0.2111727	0.27897161	2.3196869	20	—	—
440683 2005 YG_{56}	17.8	X	292.51402	101.30574	286.29137	19.42238	0.1086160	0.38539084	1.8701156	20	9 3.3	19.7
440684 2005 YC_{59}	16.0	X	264.23616	318.23352	100.86718	9.50832	0.2256675	0.18099018	3.0952760	20	8 2.2	20.5
440685 2005 YU_{61}	16.8	X	282.57318	323.29037	50.70479	1.49251	0.1815530	0.17635542	3.1492720	20	7 3.6	21.0
440686 2005 YJ_{62}	16.5	X	251.89474	315.31015	76.64076	2.64433	0.1775271	0.17381697	3.1798595	20	6 20.2	21.1
440687 2005 YV_{62}	18.1	X	24.71046	113.41073	293.40894	6.05238	0.1263194	0.26967957	2.3726700	20	—	—
440688 2005 YF_{64}	18.6	X	43.72773	339.23695	81.58744	2.51292	0.1776273	0.27563864	2.3383489	20	—	—
440689 2005 YK_{68}	15.8	X	326.28054	297.77441	98.42718	10.87019	0.0784860	0.18730578	3.0253010	20	10 26.6	19.8
440690 2005 YO_{73}	18.6	X	1.54939	8.28481	68.15737	2.51211	0.1619529	0.27066674	2.3668975	20	—	—
440691 2005 YP_{73}	17.1	X	56.18083	260.09073	84.86540	6.89538	0.1735212	0.26579994	2.3957020	20	—	—
440692 2005 YY_{73}	16.5	X	269.86915	105.08885	297.45055	6.78377	0.1775308	0.17911932	3.1167916	20	7 24.3	20.8
440693 2005 YJ_{81}	16.5	X	211.23609	327.76643	109.53064	6.92664	0.1069511	0.17174263	3.2054129	20	7 10.8	21.2
440694 2005 YF_{82}	17.0	X	134.24089	33.45178	280.54406	5.77769	0.1170753	0.27019861	2.3696305	20	—	—
440695 2005 YV_{83}	17.4	X	87.88739	230.93324	124.33189	7.27293	0.1407577	0.27109270	2.3644175	20	—	—
440696 2005 YM_{93}	17.5	X	95.90497	228.92956	288.92216	17.20982	0.0604757	0.36992098	1.9218968	20	6 19.5	19.5
440697 2005 YD_{94}	17.6	X	29.98403	137.56672	324.08960	5.33121	0.1607211	0.27843428	2.3226704	20	—	—
440698 2005 YK_{94}	17.5	X	107.82644	206.01395	305.88257	17.82054	0.0705988	0.36847062	1.9269368	20	7 1.5	19.6
440699 2005 YD_{96}	16.6	X	224.68902	134.93041	312.46698	9.24318	0.1808613	0.17573480	3.1566823	20	7 31.2	21.5
440700 2005 YV_{100}	16.8	X	257.66666	102.50853	283.93710	14.06878	0.2654705	0.17505185	3.1648873	20	6 9.5	21.9
440701 2005 YW_{123}	16.1	X	269.83599	102.16381	302.28857	15.31029	0.2284616	0.17901096	3.1180492	20	7 20.1	20.4
440702 2005 YO_{125}	18.5	X	66.85881	32.33261	10.00009	2.67890	0.1589729	0.27719948	2.3295629	20	—	—
440703 2005 YF_{132}	17.3	X	85.26864	257.58336	119.91338	5.24298	0.1720034	0.27425536	2.3462051	20	—	—
440704 2005 YZ_{141}	16.2	X	262.35546	291.58938	100.06173	15.70613	0.1898036	0.17487396	3.1670333	20	6 29.8	21.0
440705 2005 YT_{153}	15.6	X	292.92745	257.59757	97.48545	14.04677	0.0933816	0.17171815	3.2057175	20	7 6.2	19.9
440706 2005 YS_{158}	18.1	X	70.78994	185.08880	223.45924	1.95935	0.2060613	0.27972254	2.3155335	20	—	—
440707 2005 YK_{173}	17.9	X	346.96653	122.25047	326.99768	6.95338	0.2033590	0.26962398	2.3729962	20	—	—
440708 2005 YG_{190}	16.3	X	250.82085	291.22242	100.79599	5.20486	0.1609762	0.17188840	3.2036004	20	6 21.1	21.0
440709 2005 YL_{190}	17.8	X	102.50767	267.30768	99.84647	4.84036	0.2147658	0.27789255	2.3256880	20	—	—
440710 2005 YV_{190}	17.7	X	71.55135	293.17317	107.60379	7.45625	0.2093381	0.27839227	2.3229041	20	—	—
440711 2005 YS_{195}	16.5	X	242.21626	305.22257	116.62835	28.29402	0.1598068	0.17558568	3.1584692	20	7 19.2	21.4
440712 2005 YR_{200}	18.1	X	351.64422	352.61579	110.49060	3.70625	0.1721720	0.27079532	2.3661482	20	—	—
440713 2005 YX_{200}	17.4	X	84.02247	253.79270	110.95678	4.58735	0.1658942	0.27169866	2.3609007	20	—	—
440714 2005 YK_{219}	16.8	X	220.39457	29.60849	17.47622	0.18351	0.1658208	0.17072178	3.2181783	20	6 8.7	22.0
440715 2005 YX_{231}	17.6	X	313.69859	210.76545	302.64876	4.24647	0.1734764	0.27097802	2.3650846	20	—	—
440716 2005 YP_{247}	18.4	X	345.29276	63.38051	23.94123	2.05892	0.1430910	0.26622784	2.3931343	20	—	—
440717 2005 YV_{248}	15.6	X	185.89993	187.55169	289.64363	15.86103	0.1559564	0.17518258	3.1633126	20	7 30.3	20.8
440718 2005 YA_{269}	16.1	X	221.87480	128.55747	311.32750	14.73741	0.2066303	0.17115095	3.2127962	20	7 18.4	21.4
440719 2005 YT_{286}	15.9	X	242.15053	296.26819	122.45602	14.03374	0.1277739	0.17204814	3.2016171	20	7 18.6	20.8
440720 2006 AZ_{24}	17.9	X	110.28527	284.36025	103.28955	6.89236	0.2110968	0.28414344	2.2914530	20	1 28.5	20.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
440721 2006 AR_{27}	18.1	X	54.92864	286.23350	142.38622	4.85514	0.1802407	0.27775059	2.3264804	20	—	—
440722 2006 AV_{35}	17.5	X	133.40521	123.56218	116.81715	10.93122	0.1133284	0.25211805	2.4816094	20	11 23.2	21.4
440723 2006 AT_{37}	17.9	X	19.08963	112.53862	296.17352	5.50685	0.0964353	0.26602908	2.3943261	20	—	—
440724 2006 AS_{43}	17.8	X	105.78154	253.45524	105.47350	5.34316	0.2537497	0.27729929	2.3290039	20	—	—
440725 2006 AC_{44}	16.6	X	7.12082	152.15029	306.68487	24.14267	0.1796689	0.27099278	2.3649987	20	—	—
440726 2006 AN_{49}	16.1	X	279.97135	89.38499	300.85392	11.85859	0.1684087	0.17850198	3.1239737	20	7 23.2	20.2
440727 2006 AY_{54}	18.0	X	84.48246	120.88411	275.77827	7.43819	0.1882518	0.27867057	2.3213572	20	—	—
440728 2006 AO_{58}	18.5	X	81.82449	107.13535	302.20380	4.49394	0.1750649	0.28083307	2.3094251	20	1 7.5	20.5
440729 2006 AA_{71}	16.0	X	215.12977	55.13825	308.07100	18.49220	0.0197626	0.15489770	3.4337821	20	4 11.2	21.3
440730 2006 AJ_{88}	17.9	X	92.48257	95.27820	285.55885	6.00176	0.1523147	0.27725442	2.3292552	20	—	—
440731 2006 BA_{6}	15.7	X	217.49592	237.38454	274.37795	9.28347	0.1002788	0.18362309	3.0656168	20	10 14.6	20.5
440732 2006 BP_{8}	17.7	X	302.78804	351.53199	310.70053	18.38566	0.0477181	0.36554511	1.9372042	20	5 5.9	20.1
440733 2006 BS_{34}	15.7	X	306.42836	41.56118	314.14577	15.00573	0.1383373	0.17281065	3.1921923	20	7 22.7	19.7
440734 2006 BC_{35}	17.4	X	305.96687	184.71503	311.55759	6.46135	0.0634401	0.26633798	2.3924745	20	—	—
440735 2006 BY_{48}	18.0	X	194.09250	87.35209	311.78630	17.29646	0.1051337	0.36626043	1.9346811	20	4 22.4	20.9
440736 2006 BF_{52}	17.5	X	13.55729	77.13385	322.07060	6.63522	0.0895240	0.26133267	2.4229265	20	—	—
440737 2006 BA_{57}	17.4	X	89.89057	30.23268	308.17789	7.48445	0.0442778	0.26366254	2.4086319	20	—	—
440738 2006 BK_{59}	17.4	X	121.02313	261.88238	49.76607	2.82150	0.2056801	0.26651823	2.3913957	20	—	—
440739 2006 BT_{88}	17.1	X	63.39099	255.75922	129.22666	8.37373	0.1092830	0.26806430	2.3821918	20	—	—
440740 2006 BL_{118}	17.6	X	35.65104	251.44704	163.38095	6.49596	0.1009832	0.26644053	2.3918606	20	—	—
440741 2006 BM_{135}	16.2	X	274.28741	291.51330	112.95120	2.70051	0.1699828	0.17536780	3.1610847	20	8 2.8	20.5
440742 2006 BN_{146}	17.7	X	42.02579	98.07752	328.23151	8.88593	0.1356644	0.27302512	2.3532477	20	—	—
440743 2006 BF_{153}	17.4	X	74.97364	36.99432	332.23586	5.87447	0.1088653	0.26627714	2.3928389	20	—	—
440744 2006 BS_{228}	17.4	X	167.95376	235.41459	354.43050	4.16631	0.1603543	0.25362461	2.4717722	20	12 8.5	21.2
440745 2006 BQ_{254}	16.2	X	254.98079	269.89330	146.45299	16.31763	0.2671591	0.17425147	3.1745713	20	7 12.7	21.3
440746 2006 BV_{255}	17.0	X	177.16871	264.35997	334.23148	14.17513	0.0725155	0.25615525	2.4554657	20	—	—
440747 2006 BP_{269}	17.6	X	108.69129	145.74304	351.94694	18.81760	0.0816405	0.36322307	1.9454516	20	6 4.0	20.2
440748 2006 DX_{3}	17.9	X	349.52027	305.59238	339.17700	19.77902	0.0357393	0.36657600	1.9335706	20	7 20.7	19.9
440749 2006 DC_{5}	18.2	X	154.60644	69.76204	146.25179	1.12592	0.1230235	0.24558492	2.5254276	20	11 10.1	22.0
440750 2006 DP_{32}	16.8	X	157.13986	314.01642	167.75416	13.26665	0.1667612	0.23064203	2.6333611	20	7 13.7	21.3
440751 2006 DW_{32}	18.0	X	216.61034	253.73981	167.28958	22.71903	0.0958605	0.36855008	1.9266598	20	7 4.2	20.9
440752 2006 DA_{42}	17.5	X	139.82404	127.36999	345.93371	20.99033	0.0482276	0.36350701	1.9444384	20	6 7.9	20.3
440753 2006 DF_{83}	16.1	X	287.35068	263.63408	170.39710	19.46003	0.4216705	0.18498049	3.0506012	20	8 17.8	20.3
440754 2006 DV_{151}	17.8	X	199.41767	193.63318	332.83027	2.72799	0.1236577	0.24446808	2.5331132	20	10 23.1	21.5
440755 2006 DG_{168}	17.4	X	124.48062	98.25675	157.44179	13.80650	0.1397735	0.24453051	2.5326821	20	12 1.9	21.7
440756 2006 DC_{216}	18.1	X	207.39009	39.06632	5.39307	19.94274	0.0995740	0.36159733	1.9512784	20	5 18.5	21.0
440757 2006 DE_{216}	17.9	X	92.26925	100.97305	100.37200	0.71714	0.1037274	0.23063199	2.6334375	20	8 14.5	21.5
440758 2006 EV_{10}	17.4	X	100.16108	206.67658	49.33980	2.91082	0.1065682	0.24051719	2.5607782	20	11 3.7	21.2
440759 2006 ED_{20}	17.9	X	200.80559	81.90055	335.42407	18.49040	0.1058148	0.36918242	1.9244592	20	6 4.3	20.8
440760 2006 EX_{41}	16.4	X	106.07887	265.59334	347.84871	26.81270	0.3974483	0.23506011	2.6002599	20	11 8.1	21.9
440761 2006 EX_{44}	17.7	X	122.76093	245.72160	6.42980	6.50450	0.1528279	0.24453901	2.5326234	20	11 22.2	21.8
440762 2006 FJ_{15}	16.9	X	88.88034	148.56454	172.92482	7.03076	0.1123546	0.25293508	2.4762624	20	—	—
440763 2006 FE_{20}	17.1	X	76.46604	227.44367	31.24756	4.86578	0.1507223	0.23110314	2.6298571	20	10 15.8	20.9
440764 2006 FA_{54}	17.4	X	54.11635	67.19961	194.34995	14.47332	0.1850381	0.22802439	2.6534761	20	9 25.9	21.0
440765 2006 GV	17.8	X	273.49265	226.14007	168.01152	23.68698	0.0841885	0.37098084	1.9182346	20	8 21.4	19.4
440766 2006 GK_{5}	17.6	X	193.95255	57.23476	129.68653	5.04028	0.0849062	0.24550418	2.5259812	20	11 18.8	21.1
440767 2006 GR_{54}	17.8	X	319.14293	2.14069	102.92941	2.23003	0.1417869	0.25419654	2.4680633	20	—	—
440768 2006 HY_{8}	17.6	X	145.88235	268.50356	323.62294	1.44336	0.0960200	0.24409365	2.5357031	20	11 20.9	21.3
440769 2006 HS_{23}	16.8	X	271.89517	273.04683	204.71723	6.36043	0.0531069	0.24368232	2.5385557	20	12 3.2	19.9
440770 2006 HH_{28}	16.9	X	118.72606	107.18258	155.64531	14.70637	0.0956612	0.23726947	2.5840930	20	12 2.8	21.1
440771 2006 HJ_{28}	16.8	X	177.51650	27.52335	150.88760	14.43949	0.0749299	0.23442395	2.6049620	20	10 22.6	20.8
440772 2006 HY_{37}	16.9	X	91.49742	212.59781	72.39845	7.78492	0.0642037	0.24003197	2.5642281	20	11 26.9	20.6
440773 2006 HN_{38}	17.6	X	169.72671	125.53472	82.39194	5.24057	0.2064274	0.24119654	2.5559675	20	11 11.0	21.8
440774 2006 HO_{59}	16.6	X	111.96920	118.75139	130.09725	31.08043	0.3020203	0.23540023	2.5977546	20	11 24.9	21.9
440775 2006 HX_{69}	16.6	X	75.47361	143.05346	152.10888	13.97892	0.1893722	0.23284620	2.6167161	20	12 5.2	20.9
440776 2006 HD_{84}	17.2	X	83.95186	159.28244	126.11711	4.64697	0.1533141	0.23425314	2.6062281	20	11 27.1	21.1
440777 2006 HH_{97}	17.4	X	265.49362	99.60503	27.94536	3.22997	0.0805951	0.24448289	2.5330110	20	12 2.6	20.4
440778 2006 HB_{154}	17.6	X	129.82537	176.27945	65.31940	4.18637	0.1167561	0.23814968	2.5777218	20	11 16.2	21.6
440779 2006 JV_{24}	16.7	X	38.40238	42.09220	234.67450	12.82901	0.2436825	0.22472213	2.6794079	20	9 30.5	20.2
440780 2006 JX_{80}	17.7	X	64.91098	128.25328	144.80349	2.43511	0.1553463	0.22851081	2.6497092	20	10 21.8	21.4
440781 2006 KT_{18}	17.2	X	30.03611	149.53498	153.02199	14.21226	0.2585188	0.22660380	2.6645544	20	11 3.6	20.8
440782 2006 KU_{18}	17.2	X	135.87916	68.20687	133.75235	12.91162	0.1991758	0.23416322	2.6068954	20	10 10.1	21.8
440783 2006 KD_{45}	17.2	X	71.35629	204.27264	123.33930	14.51916	0.1695305	0.24115546	2.5562578	20	—	—
440784 2006 KR_{69}	17.7	X	91.30093	169.99152	169.32700	5.56456	0.3064273	0.24132929	2.5550302	20	—	—
440785 2006 KQ_{73}	16.3	X	229.48240	317.89052	116.59481	13.29548	0.1473911	0.22272559	2.6953964	20	7 25.8	20.3
440786 2006 KO_{75}	16.0	X	41.68346	187.30297	126.05887	15.43699	0.1789528	0.23247142	2.6195277	20	11 22.3	19.8
440787 2006 KF_{83}	17.2	X	229.22036	45.64969	70.89581	2.77730	0.0442913	0.23342017	2.6124248	20	10 4.5	20.7
440788 2006 KX_{91}	17.8	X	53.23665	147.43386	169.22013	2.84743	0.1867010	0.23304191	2.6152509	20	12 6.5	21.6
440789 2006 KK_{92}	17.5	X	52.32094	78.86177	227.27007	15.36533	0.1772323	0.23101795	2.6305036	20	11 20.7	21.1
440790 2006 KP_{123}	17.5	X	59.77732	64.35369	215.49226	12.84613	0.2381056	0.22670231	2.6637825	20	11 3.1	21.4
440791 2006 MV_{7}	16.7	X	344.69241	264.46791	115.78509	13.72151	0.1162735	0.22395666	2.6855097	20	11 14.5	20.0
440792 2006 MA_{11}	16.8	X	79.76035	344.18162	287.83810	13.19066	0.2337878	0.22600816	2.6692339	20	11 8.6	21.3
440793 2006 OK_{10}	17.0	X	4.84079	71.36106	264.40109	7.86512	0.2722095	0.21704180	2.7422505	20	10 30.5	19.7
440794 2006 OO_{14}	17.0	X	34.77106	26.93858	308.02546	7.42814	0.3152626	0.22231388	2.6987231	20	12 23.1	20.9
440795 2006 OK_{16}	17.1	X	14.36159	37.27898	327.57891	8.89541	0.2663894	0.22003621	2.7173148	20	12 28.2	20.5
440796 2006 OB_{22}	16.9	X	351.43385	178.65989	176.08399	14.22125	0.2002258	0.21132542	2.7914823	20	10 23.3	19.7
440797 2006 PO_{6}	16.1	X	3.41487	20.92139	329.86378	26.22902	0.2070012	0.21935599	2.7229294	20	10 25.3	19.8
440798 2006 PZ_{7}	16.9	X	83.92274	288.22978	345.90159	12.18157	0.2519942	0.22588349	2.6702160	20	11 15.4	21.6
440799 2006 PZ_{9}	19.9	X	233.85021	173.33621	134.70051	4.45938	0.2894956	0.33060377	2.0714010	20	2 7.1	23.4
440800 2006 PA_{16}	16.6	X	348.90068	269.74919	131.27580	13.66761	0.2857393	0.22087197	2.7104557	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
440801 2006 PZ_{18}	17.0	X	69.07256	340.59546	305.77428	9.30293	0.1717052	0.22432179	2.6825948	20	11 9.2	21.1
440802 2006 PZ_{24}	16.9	X	14.57392	52.91769	280.70621	17.04751	0.3413443	0.21729459	2.7401233	20	11 27.8	20.2
440803 2006 QL_{4}	17.2	X	303.02837	31.03084	9.81534	6.78963	0.1036027	0.21142922	2.7905687	20	9 24.9	20.5
440804 2006 QO_{15}	17.4	X	359.77494	144.38484	204.92454	2.85837	0.2045292	0.21763418	2.7372721	20	11 1.2	20.1
440805 2006 QE_{50}	17.4	X	18.39101	71.07744	256.42100	2.22422	0.1977214	0.21712263	2.7415699	20	11 1.9	20.5
440806 2006 QF_{56}	17.6	X	337.29391	55.88250	337.78944	7.35714	0.2804431	0.21690325	2.7434181	20	11 21.9	19.8
440807 2006 QV_{57}	15.8	X	19.73244	24.31755	326.42438	9.28594	0.2570254	0.21828434	2.7318342	20	12 14.6	19.3
440808 2006 QC_{62}	17.0	X	7.57642	165.62769	154.98058	10.04802	0.2195570	0.21323128	2.7748240	20	10 10.3	19.9
440809 2006 QM_{83}	17.3	X	358.56980	57.58985	318.83568	2.32434	0.2117164	0.21966087	2.7204093	20	12 7.9	20.0
440810 2006 QK_{90}	16.6	X	331.58372	148.42547	203.74132	7.30845	0.3218105	0.21011747	2.8021708	20	8 19.8	18.4
440811 2006 QE_{104}	17.0	X	16.88308	188.12219	130.93113	4.72123	0.2274149	0.21440617	2.7646779	20	10 25.9	20.1
440812 2006 QB_{108}	17.7	X	355.77487	94.77733	279.33748	2.57741	0.3445714	0.21673107	2.7448709	20	12 20.9	20.1
440813 2006 QN_{119}	16.2	X	4.17372	49.49383	309.79070	12.73413	0.2145650	0.21767204	2.7369548	20	11 21.6	19.4
440814 2006 QX_{122}	17.3	X	335.51039	74.52403	315.93725	6.58236	0.3487049	0.21322729	2.7748586	20	11 16.3	19.0
440815 2006 QE_{125}	17.1	X	15.50312	27.10057	310.69025	11.49901	0.2028930	0.21825760	2.7320572	20	11 8.4	20.5
440816 2006 QF_{134}	16.7	X	33.12217	324.87544	358.38998	9.18051	0.2928299	0.21705064	2.7421761	20	11 30.4	20.5
440817 2006 QK_{149}	17.0	X	336.07361	26.74393	357.22857	12.00844	0.1029931	0.21567301	2.7538409	20	10 23.1	20.3
440818 2006 QS_{152}	17.2	X	311.19227	43.48281	347.95768	4.39916	0.1032997	0.21414081	2.7669613	20	9 24.6	20.4
440819 2006 QD_{177}	17.6	X	322.87465	73.52184	296.39486	1.97179	0.0996668	0.21252768	2.7809449	20	9 13.9	20.8
440820 2006 RY	16.3	X	54.59475	312.79520	7.97081	13.69391	0.2138206	0.22013386	2.7165111	20	12 11.4	20.6
440821 2006 RZ_{3}	16.5	X	335.97175	47.26053	351.25447	7.57349	0.2328611	0.21651995	2.7466550	20	11 21.4	19.0
440822 2006 RZ_{4}	17.6	X	0.69470	140.36562	219.68872	7.18466	0.3073198	0.21659043	2.7460591	20	12 4.5	20.3
440823 2006 RP_{8}	17.2	X	335.90771	17.27719	2.64306	9.52792	0.2284429	0.21400765	2.7681090	20	10 22.1	19.6
440824 2006 RX_{8}	16.7	X	17.68813	46.98033	347.56529	12.63647	0.2676010	0.22340729	2.6899104	20	—	—
440825 2006 RX_{35}	16.2	X	30.46927	359.66548	19.99981	10.81546	0.1692978	0.22283646	2.6945023	20	—	—
440826 2006 RD_{36}	16.3	X	3.26958	73.25540	310.23157	10.57456	0.1546328	0.21903793	2.7255647	20	12 17.5	19.6
440827 2006 RB_{38}	17.3	X	349.81939	2.28735	22.82480	8.41435	0.3212878	0.21550134	2.7553032	20	12 18.5	19.8
440828 2006 RU_{41}	16.2	X	158.45597	223.40669	187.44131	22.68125	0.1358419	0.18201862	3.0836057	20	4 19.8	21.2
440829 2006 RQ_{44}	17.6	X	338.97066	333.52024	28.12714	4.62558	0.1148894	0.21008803	2.8024326	20	10 1.7	20.6
440830 2006 RQ_{62}	17.0	X	319.88364	10.78075	7.68252	4.46634	0.2088556	0.21118204	2.7927457	20	9 14.5	19.6
440831 2006 RM_{70}	16.3	X	63.68191	263.17123	359.29424	9.02224	0.0903754	0.21078174	2.7962805	20	9 23.6	20.1
440832 2006 RG_{76}	16.7	X	16.87408	336.40064	9.44647	9.47462	0.1494188	0.21644307	2.7473053	20	11 14.2	20.2
440833 2006 RB_{116}	17.1	X	271.24831	197.96675	201.37456	1.51605	0.0655291	0.20263127	2.8707700	20	8 9.5	20.8
440834 2006 RJ_{122}	16.8	X	345.52475	15.50919	340.50439	8.33666	0.0671733	0.21354002	2.7721488	20	9 30.4	20.2
440835 2006 SE_{3}	17.1	X	352.09584	20.19644	346.30428	10.85221	0.2802035	0.21540400	2.7561332	20	11 15.4	19.8
440836 2006 SP_{16}	17.3	X	276.61276	74.01643	341.36329	4.68355	0.2543415	0.20458446	2.8524692	20	8 10.4	20.9
440837 2006 SA_{32}	16.7	X	345.04347	142.15993	245.39286	1.54813	0.2077225	0.21567188	2.7538505	20	11 25.5	19.4
440838 2006 SV_{43}	16.4	X	300.28448	69.29007	359.07441	11.75490	0.2482716	0.21032192	2.8003546	20	10 6.9	19.3
440839 2006 SA_{45}	16.9	X	306.02929	149.72101	270.55455	10.12057	0.1495317	0.21804451	2.7338370	20	10 19.0	20.0
440840 2006 SM_{65}	17.0	X	333.16778	89.85799	294.66640	7.94743	0.2469952	0.21471909	2.7619911	20	10 21.6	19.4
440841 2006 SR_{79}	16.6	X	33.44076	78.10887	254.69954	10.92734	0.2347479	0.21824244	2.7321838	20	12 6.7	20.3
440842 2006 SE_{84}	16.7	X	337.80572	9.87491	18.39588	9.69026	0.1653818	0.21417306	2.7666835	20	11 5.4	19.6
440843 2006 SD_{103}	17.3	X	338.71734	135.62946	192.22187	1.89717	0.0374549	0.20422263	2.8558374	20	8 13.4	21.0
440844 2006 SF_{105}	16.1	X	12.90920	29.85167	313.61138	17.03684	0.2982701	0.21583516	2.7524615	20	11 28.9	19.6
440845 2006 SK_{109}	17.1	X	318.04530	187.48125	153.27451	2.43677	0.0834338	0.19997885	2.8960985	20	7 27.6	20.7
440846 2006 SP_{115}	17.2	X	330.87565	4.19509	359.87941	4.19048	0.0824185	0.21127756	2.7919040	20	9 20.6	20.4
440847 2006 SY_{126}	16.9	X	355.46874	61.31386	305.49038	6.96917	0.2664598	0.21472271	2.7619601	20	11 23.8	19.6
440848 2006 SJ_{139}	16.7	X	274.37656	209.11417	161.83049	13.53618	0.1978221	0.19787290	2.9166110	20	6 17.9	21.1
440849 2006 SW_{139}	16.8	X	343.92660	147.91226	225.10580	11.01368	0.1126528	0.21581378	2.7526433	20	10 25.4	20.0
440850 2006 SB_{160}	16.9	X	349.63306	316.21530	40.33553	6.57782	0.0518255	0.20946060	2.8080262	20	10 10.2	20.4
440851 2006 SX_{175}	17.5	X	348.73914	20.16379	335.96947	3.17497	0.1295875	0.21201006	2.7854694	20	10 10.2	20.5
440852 2006 SF_{187}	17.3	X	315.33674	181.46312	216.66765	4.38665	0.0842404	0.21454017	2.7635265	20	10 11.9	20.5
440853 2006 ST_{192}	17.1	X	40.40881	199.33509	134.46711	3.80003	0.0996129	0.21850385	2.7300042	20	11 27.9	20.7
440854 2006 SM_{197}	16.5	X	36.57472	68.74052	284.15176	14.53134	0.3073940	0.22061647	2.7125480	20	—	—
440855 2006 SF_{202}	16.8	X	73.16843	273.78249	5.88608	8.55896	0.1506871	0.21390682	2.7689788	20	11 1.8	20.9
440856 2006 SZ_{213}	16.4	X	36.50339	75.25439	256.30636	9.92835	0.2080568	0.21959256	2.7209734	20	12 5.3	20.1
440857 2006 SC_{260}	16.8	X	318.28966	351.34877	295.10089	1.38166	0.0708042	0.19134983	2.9825244	20	5 16.3	20.7
440858 2006 SS_{277}	16.8	X	213.45468	310.17010	137.66947	2.83416	0.0268375	0.20285715	2.8686386	20	8 4.6	20.8
440859 2006 ST_{286}	16.7	X	348.88940	274.80006	95.40363	8.65039	0.2396263	0.21350203	2.7724776	20	11 14.5	19.3
440860 2006 SK_{290}	16.8	X	18.02616	0.52109	53.49853	9.67126	0.2658323	0.22391287	2.6858599	20	—	—
440861 2006 SF_{296}	17.2	X	19.94921	105.01386	224.64485	1.98163	0.0997804	0.21432930	2.7653389	20	10 23.5	20.6
440862 2006 SM_{329}	17.3	X	308.88998	0.49974	41.96951	4.01309	0.0935150	0.20994284	2.8037245	20	10 7.7	20.7
440863 2006 SN_{342}	16.6	X	285.49513	203.26754	233.68828	7.05917	0.1998461	0.20938391	2.8087118	20	9 28.3	19.9
440864 2006 SC_{355}	16.5	X	336.92540	212.23806	181.41577	12.19282	0.1519362	0.21385016	2.7694679	20	11 15.3	19.6
440865 2006 SF_{378}	17.2	X	349.95051	237.10522	114.74084	8.73074	0.2302026	0.21019340	2.8014960	20	10 20.5	19.9
440866 2006 SA_{385}	16.2	X	10.88205	84.78011	133.21483	11.72891	0.0375315	0.18461356	3.0546419	20	5 9.3	20.5
440867 2006 SV_{394}	17.1	X	349.74212	79.43782	290.26068	11.78245	0.2370970	0.21212842	2.7844333	20	11 8.0	19.9
440868 2006 ST_{405}	17.2	X	209.50674	171.86263	346.33193	4.10314	0.0487114	0.21649154	2.7468952	20	10 27.3	21.2
440869 2006 SE_{411}	17.3	X	315.21764	195.46128	201.59662	3.34339	0.0988997	0.21054899	2.7983408	20	10 9.1	20.4
440870 2006 TB_{12}	17.2	X	27.59841	289.69532	27.75717	8.20167	0.2256470	0.21410878	2.7672373	20	11 5.8	20.7
440871 2006 TM_{12}	17.5	X	24.60722	104.36072	207.97296	12.83058	0.3392361	0.21644215	2.7473131	20	11 15.8	20.9
440872 2006 TL_{25}	16.5	X	320.31422	164.12065	212.66827	12.44232	0.0708494	0.20622343	2.8373356	20	9 17.3	20.3
440873 2006 TB_{29}	17.2	X	334.30976	338.25910	38.46369	6.78451	0.0767743	0.20904719	2.8117270	20	10 14.1	20.6
440874 2006 TR_{34}	16.7	X	330.47025	4.79129	24.46197	7.28011	0.1870781	0.21013001	2.8020594	20	10 23.8	19.4
440875 2006 TX_{40}	17.2	X	290.70979	5.67849	20.84153	1.98451	0.0761025	0.20107731	2.8855415	20	8 19.5	20.8
440876 2006 TD_{46}	17.2	X	291.74894	316.19906	71.95182	3.00538	0.1028419	0.20074614	2.8887142	20	8 20.0	20.8
440877 2006 TF_{56}	18.7	X	88.97080	222.01259	210.39147	1.38201	0.1085160	0.31289663	2.1488303	20	2 5.0	20.6
440878 2006 TC_{62}	16.9	X	335.91265	52.42404	335.57201	8.32796	0.2001815	0.21406619	2.7676043	20	10 31.9	19.7
440879 2006 TP_{74}	17.0	X	308.53537	155.41907	291.57078	9.81822	0.3498882	0.21269314	2.7795024	20	11 12.2	19.0
440880 2006 TY_{76}	16.7	X	17.48436	56.74072	319.79852	6.89357	0.2525583	0.21854474	2.7296637	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
440881 2006 TL_{91}	16.5	X	280.10017	114.35165	230.13841	14.63494	0.1009262	0.19077234	2.9885403	20	6 4.3	20.6
440882 2006 TJ_{103}	17.4	X	19.35942	102.42414	219.07694	16.04768	0.1502195	0.20966491	2.8062017	20	10 16.6	20.9
440883 2006 TX_{110}	17.0	X	359.67313	220.99959	119.55069	4.83557	0.1013517	0.21051855	2.7986106	20	10 8.7	20.3
440884 2006 TQ_{115}	16.6	X	66.58143	356.80799	145.33730	13.47128	0.0598945	0.17712059	3.1401955	20	4 21.6	21.1
440885 2006 TT_{124}	16.8	X	322.17154	82.34431	256.99948	5.22868	0.0999333	0.20009246	2.8950022	20	7 29.6	20.4
440886 2006 US_{16}	16.2	X	211.42437	234.76269	209.20326	14.05350	0.0593575	0.19299312	2.9655699	20	7 20.6	20.8
440887 2006 UV_{49}	17.5	X	349.66901	62.46807	292.58360	4.16145	0.1359990	0.20993850	2.8037631	20	10 9.1	20.6
440888 2006 UA_{70}	17.0	X	313.11447	27.03188	323.06139	1.77183	0.1717448	0.20035657	2.8924575	20	7 22.6	20.1
440889 2006 UL_{72}	17.2	X	345.95691	138.47913	263.27797	2.32327	0.1985373	0.21797662	2.7344046	20	12 17.3	19.6
440890 2006 UO_{84}	18.4	X	126.62420	352.43872	40.91250	6.63981	0.1849058	0.31398516	2.1438610	20	2 20.7	21.1
440891 2006 UM_{113}	17.5	X	292.23460	31.96939	351.86899	1.43419	0.0765952	0.20278229	2.8693445	20	8 17.7	21.3
440892 2006 UE_{114}	16.8	X	46.56707	271.06994	26.90656	13.74349	0.2140789	0.21360261	2.7716072	20	11 3.1	20.7
440893 2006 UE_{144}	16.2	X	190.77366	168.75353	241.76958	11.08860	0.2498301	0.18330069	3.0692103	20	5 16.0	21.6
440894 2006 UM_{166}	17.3	X	29.30789	271.68524	79.34604	4.22452	0.1957411	0.21761803	2.7374076	20	12 18.4	20.7
440895 2006 UL_{170}	17.3	X	244.33344	353.28774	99.41271	3.22104	0.0255943	0.20545596	2.8443971	20	9 21.6	21.1
440896 2006 UN_{187}	16.6	X	288.87199	176.73030	262.13287	12.86957	0.1664318	0.21169074	2.7882699	20	10 9.3	20.1
440897 2006 UF_{221}	16.9	X	319.50027	58.43583	355.01968	7.17559	0.2207550	0.21341876	2.7731987	20	11 1.8	19.4
440898 2006 UQ_{224}	17.0	X	4.74364	108.36470	228.39787	11.99626	0.2022068	0.21120608	2.7925338	20	10 19.9	19.9
440899 2006 UU_{229}	17.2	X	345.18014	311.80605	79.71478	3.16690	0.2006846	0.21626311	2.7488292	20	12 1.1	19.8
440900 2006 UC_{283}	17.1	X	287.02312	103.73355	233.47473	6.10563	0.1606557	0.19330085	2.9624216	20	5 26.1	21.1
440901 2006 UJ_{288}	16.9	X	5.48360	49.26374	315.65935	6.69433	0.2377951	0.21306928	2.7762303	20	12 5.9	20.1
440902 2006 UF_{337}	15.9	X	89.97868	246.80912	236.81110	9.45422	0.0290519	0.17572035	3.1568554	20	4 17.8	20.4
440903 2006 UP_{345}	15.6	X	73.24518	280.34972	276.49453	13.89413	0.0749074	0.17887730	3.1196023	20	7 6.6	19.9
440904 2006 VA	18.8	X	220.74039	14.10230	287.21775	4.11258	0.3544682	0.32320007	2.1029152	20	1 21.2	22.8
440905 2006 VV_{1}	16.8	X	334.50415	118.38291	246.92841	9.50721	0.1513279	0.20564601	2.8426443	20	9 21.8	20.0
440906 2006 VO_{6}	16.2	X	138.20417	21.04083	62.80493	8.56764	0.0193025	0.17905496	3.1175384	20	4 29.6	20.7
440907 2006 VA_{35}	18.7	X	117.65279	160.19658	231.71785	2.54113	0.1376938	0.31178183	2.1539495	20	1 26.4	21.0
440908 2006 VY_{56}	18.7	X	72.41830	339.12118	83.02378	2.27187	0.1102342	0.30643944	2.1789116	20	—	—
440909 2006 VP_{63}	16.4	X	288.90437	126.41736	244.70062	9.05992	0.1104454	0.19459384	2.9492845	20	7 18.3	20.4
440910 2006 VB_{72}	16.7	X	275.64727	150.20280	239.76452	9.17229	0.1076764	0.19564701	2.9386908	20	7 24.6	20.8
440911 2006 VN_{77}	16.3	X	83.52577	43.26912	74.60415	10.03337	0.0567196	0.17369808	3.1813103	20	4 12.9	20.8
440912 2006 VZ_{79}	16.1	X	121.48250	247.97661	226.07000	14.97925	0.0349973	0.18030868	3.1030704	20	5 17.6	20.5
440913 2006 VR_{81}	16.6	X	344.20823	346.38356	19.23616	10.41584	0.1444887	0.21236914	2.7823288	20	10 16.8	19.6
440914 2006 VJ_{85}	17.0	X	286.50254	313.44405	70.14958	8.12940	0.1262711	0.19718113	2.9234286	20	8 3.1	20.8
440915 2006 VK_{113}	16.4	X	253.99620	18.94445	47.57231	11.61648	0.1443090	0.19660432	2.9291437	20	8 16.3	20.8
440916 2006 VD_{129}	16.0	X	330.13099	109.71454	253.59558	13.81885	0.1668423	0.20475775	2.8508595	20	9 6.3	19.4
440917 2006 VM_{141}	17.1	X	268.24807	14.48125	40.91720	6.14930	0.0599302	0.19977888	2.8980308	20	8 30.9	21.0
440918 2006 VH_{154}	16.6	X	265.31235	112.04153	237.36916	9.17327	0.1242725	0.18954270	3.0014515	20	5 19.7	21.0
440919 2006 WG_{59}	15.8	X	107.44642	178.11261	276.69910	7.36303	0.1243065	0.17215934	3.2002383	20	4 15.2	20.6
440920 2006 WF_{70}	17.0	X	279.53078	124.95276	259.81337	4.83613	0.1090134	0.19674418	2.9277554	20	7 24.7	20.9
440921 2006 WO_{79}	17.1	X	330.54769	101.64766	258.77392	7.96042	0.1298279	0.20196964	2.8770362	20	9 7.2	20.6
440922 2006 WO_{81}	16.5	X	248.78933	108.98005	231.07372	9.63349	0.0368617	0.17906692	3.1173996	20	4 29.1	21.0
440923 2006 WF_{88}	16.6	X	149.59825	263.35975	220.21543	11.44151	0.1187728	0.18499376	3.0504553	20	7 4.8	21.6
440924 2006 WT_{200}	16.6	X	92.99585	186.80029	322.55465	4.51729	0.1624477	0.17164267	3.2066573	20	6 13.2	21.3
440925 2006 WO_{205}	16.4	X	20.96214	239.33587	72.48775	15.99101	0.1504087	0.20325576	2.8648869	20	10 14.9	20.2
440926 2006 XM_{6}	16.0	X	191.20390	52.75847	55.55764	13.09322	0.0924760	0.19052845	2.9910901	20	8 3.3	20.8
440927 2006 XY_{6}	15.5	X	72.16168	255.46790	266.67766	24.27233	0.2431644	0.17146133	3.2089178	20	6 16.2	20.0
440928 2006 XE_{16}	15.8	X	105.54332	99.05629	91.88463	17.13060	0.0828702	0.18444479	3.0565051	20	8 13.6	20.5
440929 2006 XD_{18}	15.6	X	128.12593	175.03599	298.31802	12.70047	0.0938907	0.17373308	3.1808830	20	5 29.5	20.6
440930 2006 XA_{21}	16.0	X	319.51679	70.43242	283.23231	8.89499	0.1092907	0.19078105	2.9884493	20	8 10.9	19.7
440931 2006 XK_{39}	15.6	X	193.51166	178.15257	283.90775	12.15971	0.0785477	0.18490783	3.0514003	20	7 23.7	20.2
440932 2006 XE_{51}	15.8	X	308.09929	57.11121	281.40228	15.39744	0.0546216	0.18544801	3.0454720	20	7 11.2	19.7
440933 2006 XG_{52}	16.1	X	220.00337	167.69027	275.63357	10.62753	0.1024149	0.19047541	2.9916453	20	7 26.9	20.7
440934 2006 XB_{70}	16.0	X	157.00224	347.51724	102.73304	15.92343	0.0688207	0.17488418	3.1669098	20	6 3.1	20.9
440935 2006 XP_{70}	16.7	X	229.35830	120.29568	324.66555	8.88866	0.1040046	0.18912297	3.0058908	20	8 10.8	21.0
440936 2006 XB_{71}	17.8	X	60.69203	319.59400	104.84285	6.59828	0.1492891	0.29846776	2.2175382	20	—	—
440937 2006 XW_{71}	15.8	X	162.97638	185.20164	283.20424	14.93608	0.0502027	0.18035528	3.1025358	20	6 29.7	20.5
440938 2006 YE_{4}	16.8	X	185.38956	58.26292	278.50980	23.71974	0.2303341	0.30905911	2.1665814	20	1 30.1	20.7
440939 2006 YA_{11}	15.6	X	149.77294	6.54840	108.35582	28.51592	0.0874918	0.17795032	3.1304267	20	6 26.2	20.5
440940 2006 YG_{25}	18.3	X	103.90122	290.31630	82.08955	6.52210	0.2515266	0.30251870	2.1976974	20	—	—
440941 2006 YO_{33}	16.6	X	206.73852	84.27852	358.52896	4.92631	0.1313988	0.18377227	3.0639574	20	7 12.9	21.4
440942 2006 YK_{35}	16.4	X	291.59867	316.58809	68.62038	5.08352	0.1821331	0.19223846	2.9733260	20	8 2.9	20.1
440943 2006 YE_{53}	15.8	X	260.80028	54.95496	317.33685	26.23273	0.0715272	0.17595007	3.1541070	20	6 24.1	20.7
440944 2007 AH	15.5	X	125.05959	251.64898	266.51693	15.36388	0.1042483	0.17902094	3.1179334	20	7 19.9	20.4
440945 2007 AH_{5}	18.3	X	61.09352	125.28640	290.18062	3.52045	0.0745528	0.29737526	2.2229660	20	—	—
440946 2007 AW_{6}	15.6	X	144.18123	167.57959	298.07555	26.71799	0.1070973	0.17583308	3.1555058	20	6 10.3	20.8
440947 2007 AG_{19}	15.5	X	116.17392	171.94115	317.41121	15.98191	0.0908122	0.17253269	3.1956199	20	6 4.9	20.5
440948 2007 AA_{26}	15.8	X	112.95729	189.56764	317.35554	18.46016	0.0281601	0.17637390	3.1490520	20	6 18.2	20.6
440949 2007 AP_{28}	16.3	X	229.82560	283.28857	124.87388	8.99566	0.1231275	0.18133068	3.0913999	20	6 23.3	21.0
440950 2007 AG_{31}	15.5	X	38.16681	164.60783	98.33433	12.02851	0.0461380	0.18217261	3.0818678	20	8 13.6	19.7
440951 2007 BQ_{11}	16.2	X	74.39881	68.40573	116.02540	16.87619	0.1982072	0.17068319	3.2186632	20	7 10.6	20.7
440952 2007 BX_{12}	16.3	X	254.88973	287.74457	117.32772	9.94054	0.1157815	0.18455437	3.0552950	20	7 18.5	20.8
440953 2007 BH_{14}	16.6	X	24.11371	267.13832	332.48630	4.31278	0.1198729	0.17283367	3.1919089	20	6 27.9	20.6
440954 2007 BF_{15}	15.8	X	286.78751	39.58312	325.57783	9.43524	0.0468627	0.18164506	3.0878319	20	7 19.8	20.1
440955 2007 BH_{22}	17.9	X	258.08046	222.92581	334.70533	4.96311	0.1571014	0.28620089	2.2804579	20	—	—
440956 2007 BV_{23}	16.3	X	75.25270	92.53087	119.29258	11.58436	0.0331033	0.18024507	3.1038004	20	7 23.1	20.5
440957 2007 BL_{27}	15.9	X	180.85771	346.98104	128.54242	18.52057	0.1720609	0.18218209	3.0817609	20	7 26.2	21.0
440958 2007 BU_{27}	16.5	X	275.47878	85.55856	312.40778	9.54043	0.1204846	0.18853446	3.0121428	20	8 4.3	20.5
440959 2007 BN_{32}	16.1	X	289.26790	235.06825	123.79551	11.00458	0.0848832	0.18340601	3.0680352	20	7 7.8	20.3
440960 2007 BF_{36}	18.3	X	188.85581	107.73218	70.85160	0.22286	0.1726958	0.26915373	2.3757593	20	10 28.1	21.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
440961 2007 BC_{45}	17.8	X	39.65691	142.33848	312.70154	7.06634	0.0707990	0.29760885	2.2218027	20	—	—
440962 2007 BJ_{45}	18.3	X	154.71467	273.78255	289.67815	2.02234	0.1717303	0.26511455	2.3998292	20	10 26.0	22.2
440963 2007 BN_{57}	16.4	X	243.31959	350.14183	89.98796	5.97590	0.1684517	0.19116657	2.9844302	20	8 14.0	20.9
440964 2007 BG_{63}	15.6	X	95.05928	244.26849	308.66429	8.18644	0.0238094	0.17810147	3.1286553	20	7 23.1	19.9
440965 2007 BZ_{70}	16.0	X	94.97733	241.81475	312.62406	10.58944	0.1196711	0.17574880	3.1565147	20	8 5.9	20.7
440966 2007 BQ_{78}	15.6	X	47.49276	274.24589	336.08478	10.86425	0.0910890	0.17822090	3.1272573	20	8 14.8	19.8
440967 2007 BV_{78}	16.2	X	263.81505	62.36961	310.59738	15.74944	0.1874066	0.18189915	3.0849558	20	6 8.2	21.0
440968 2007 BG_{79}	16.0	X	306.11122	24.03709	314.45023	8.68449	0.0981064	0.17771837	3.1331499	20	7 4.2	20.1
440969 2007 BR_{94}	16.1	X	239.13402	90.74893	299.79280	9.78685	0.0976781	0.17897204	3.1185013	20	6 13.8	20.8
440970 2007 BG_{102}	15.8	X	81.63607	97.81869	97.51407	9.75462	0.1863043	0.17357069	3.1828667	20	8 1.6	20.5
440971 2007 CB_{3}	16.0	X	33.22691	300.65306	309.12539	8.94990	0.1114817	0.17507143	3.1646512	20	7 25.5	20.0
440972 2007 CU_{7}	17.9	X	2.55835	5.91677	126.81632	6.18771	0.0889371	0.29787528	2.2204777	20	—	—
440973 2007 CH_{8}	15.6	X	345.36278	306.41474	315.00304	14.23210	0.0425884	0.17313322	3.1882261	20	5 22.5	20.1
440974 2007 CX_{14}	18.4	X	72.80289	273.49414	160.94045	4.68140	0.1191816	0.29965484	2.2116777	20	1 14.8	20.3
440975 2007 CY_{20}	17.6	X	181.26836	327.26676	311.54541	7.05215	0.0949892	0.28742859	2.2739596	20	—	—
440976 2007 CV_{22}	15.9	X	108.02683	45.25054	139.46968	16.97767	0.1452637	0.17839126	3.1252660	20	8 10.9	20.6
440977 2007 CL_{28}	16.7	X	136.26481	330.73597	146.03443	8.83306	0.0952810	0.17174749	3.2053524	20	6 13.5	21.7
440978 2007 CP_{30}	15.8	X	33.16968	115.47612	135.95725	10.99987	0.0816153	0.17718277	3.1394607	20	7 23.2	19.9
440979 2007 CN_{31}	16.4	X	248.41726	253.61481	135.12481	1.51813	0.0898041	0.17880717	3.1204179	20	6 23.1	20.8
440980 2007 CQ_{36}	16.7	X	118.35238	195.42270	326.83644	4.45713	0.0976165	0.17672293	3.1449043	20	7 20.9	21.3
440981 2007 CO_{37}	16.7	X	120.69649	353.59631	130.15946	10.01215	0.0505123	0.17067518	3.2187640	20	6 1.4	21.5
440982 2007 CR_{37}	16.4	X	215.07416	325.55501	129.04423	10.65477	0.0584812	0.18471822	3.0534881	20	8 11.1	20.7
440983 2007 CR_{42}	16.7	X	201.46000	314.97333	147.68075	10.42178	0.0825686	0.18226111	3.0808700	20	8 2.5	21.3
440984 2007 CZ_{51}	16.4	X	230.16841	76.66405	11.58688	8.73475	0.2334269	0.18915694	3.0055309	20	8 5.2	21.4
440985 2007 CS_{78}	16.0	X	114.38158	204.49425	337.89648	9.51303	0.0626219	0.17766064	3.1338285	20	8 8.4	20.7
440986 2007 DX_{4}	16.0	X	158.28500	198.44646	300.91265	7.93727	0.0276978	0.18403823	3.0610049	20	8 1.3	20.3
440987 2007 DH_{6}	18.4	X	215.50576	254.10898	353.73970	1.83131	0.0527070	0.28398499	2.2923053	20	—	—
440988 2007 DJ_{6}	16.7	X	341.71101	162.62237	331.26248	24.19672	0.2321612	0.28910809	2.2651444	20	—	—
440989 2007 DO_{10}	16.0	X	238.23344	60.58311	354.26487	15.95274	0.0690198	0.17571181	3.1569576	20	7 21.6	20.8
440990 2007 DZ_{10}	16.4	X	208.19095	95.01470	352.38589	8.25635	0.1505034	0.17792576	3.1307147	20	7 19.6	21.5
440991 2007 DH_{12}	15.6	X	178.21960	173.59941	291.18816	16.39122	0.1598495	0.17810534	3.1286099	20	7 11.2	20.6
440992 2007 DR_{17}	17.5	X	177.55721	298.42075	334.95072	9.52240	0.1740842	0.27962763	2.3160575	20	—	—
440993 2007 DG_{18}	16.0	X	55.56093	68.23821	157.09559	22.36273	0.0350193	0.17324114	3.1869018	20	7 14.1	20.7
440994 2007 DF_{27}	17.6	X	148.69324	316.11723	2.35210	7.54327	0.1285283	0.28438397	2.2901608	20	—	—
440995 2007 DV_{31}	16.3	X	173.23867	112.22779	350.68265	10.33112	0.0650302	0.17262850	3.1944375	20	7 5.5	21.3
440996 2007 DX_{33}	15.5	X	94.87022	24.54852	157.87927	10.81714	0.0562101	0.17039816	3.2222516	20	7 12.2	20.2
440997 2007 DR_{35}	16.3	X	185.53838	128.60536	342.71391	9.29997	0.1350324	0.17794295	3.1305131	20	7 28.3	21.4
440998 2007 DM_{40}	16.7	X	298.50065	243.41726	158.13819	14.29769	0.1939065	0.18933625	3.0036330	20	9 1.9	20.1
440999 2007 DH_{42}	15.6	X	83.87333	221.82973	332.38763	26.18068	0.1286563	0.17239660	3.1973014	20	8 1.3	20.4
441000 2007 DT_{46}	16.9	X	268.40254	275.03538	122.64609	6.38756	0.1462405	0.18799645	3.0178868	20	7 21.5	20.9
441001 2007 DO_{49}	18.7	X	94.29232	26.17350	132.87215	24.04099	0.0424801	0.39495023	1.8398163	20	6 19.8	21.0
441002 2007 DS_{53}	18.0	X	175.38626	39.60386	181.86113	5.44264	0.1525497	0.26693540	2.3889035	20	12 9.4	21.6
441003 2007 DY_{81}	18.1	X	160.73643	161.68627	105.22926	3.96601	0.1491508	0.27423473	2.3463227	20	—	—
441004 2007 DG_{82}	18.1	X	190.16815	126.16723	84.13434	2.57546	0.1304998	0.26994035	2.3711417	20	12 12.9	21.4
441005 2007 DA_{93}	15.1	X	72.99911	199.55894	337.47387	17.79863	0.0604995	0.16855324	3.2457219	20	6 7.4	20.0
441006 2007 DL_{96}	17.7	X	157.88013	279.41214	337.50466	5.46517	0.1880714	0.26958608	2.3732186	20	—	—
441007 2007 DZ_{98}	18.0	X	246.75604	61.42072	133.45142	3.09878	0.1730560	0.27953842	2.3165502	20	—	—
441008 2007 DV_{100}	15.6	X	93.75410	218.09485	340.16388	15.41657	0.0546070	0.17650159	3.1475330	20	8 5.0	20.2
441009 2007 DP_{116}	16.1	X	122.80252	157.67973	13.06510	17.07426	0.1570966	0.17698731	3.1417717	20	8 17.1	21.3
441010 2007 EB_{6}	18.4	X	160.83031	281.02875	345.01060	2.25335	0.0601172	0.27680623	2.3317687	20	—	—
441011 2007 EX_{12}	17.9	X	277.54468	184.01912	1.77819	8.32028	0.1321972	0.28293494	2.2979734	20	—	—
441012 2007 EQ_{15}	18.0	X	241.77985	89.18194	86.86555	2.26180	0.1211887	0.27226176	2.3576443	20	—	—
441013 2007 EM_{69}	18.0	X	155.95515	123.87831	116.27380	2.54567	0.1747926	0.26494349	2.4008621	20	12 12.0	21.8
441014 2007 EK_{72}	15.9	X	256.88305	31.69504	9.15719	16.57069	0.0918257	0.17378283	3.1802760	20	7 23.7	20.7
441015 2007 EM_{82}	17.5	X	144.52662	314.83144	315.31082	6.01389	0.2003432	0.27405305	2.3473596	20	—	—
441016 2007 EY_{83}	15.6	X	188.21958	296.51250	157.99281	15.38215	0.0494398	0.17243580	3.1968169	20	7 9.7	20.6
441017 2007 EG_{115}	17.8	X	319.20284	13.27637	115.23231	3.06159	0.1629157	0.27957835	2.3163296	20	—	—
441018 2007 EO_{131}	17.9	X	163.03186	230.05315	14.29139	1.07357	0.1530900	0.26792227	2.3830336	20	12 25.3	21.6
441019 2007 EE_{135}	16.2	X	200.26662	264.99314	154.59894	10.79990	0.0799976	0.17378728	3.1802216	20	6 10.3	21.2
441020 2007 EC_{147}	18.2	X	331.67472	104.25321	25.65643	5.08089	0.1037579	0.28468495	2.2885463	20	—	—
441021 2007 EE_{147}	17.9	X	68.54425	255.67348	143.00054	5.65263	0.1111141	0.28596855	2.2816930	20	—	—
441022 2007 EM_{160}	17.6	X	173.43826	235.01936	349.40626	2.32263	0.1978607	0.26481438	2.4016424	20	12 6.6	21.5
441023 2007 ET_{170}	16.1	X	143.60516	159.88158	337.49754	17.64551	0.0961838	0.17550340	3.1594564	20	7 20.9	21.1
441024 2007 EX_{173}	17.8	X	155.61972	249.51624	340.40690	4.57818	0.1425954	0.26322951	2.4112727	20	11 29.2	21.5
441025 2007 EN_{185}	17.5	X	135.07287	208.01993	67.76041	7.55846	0.0983277	0.26684881	2.3894202	20	—	—
441026 2007 EB_{193}	16.1	X	203.64860	113.93840	347.55193	16.35647	0.1878985	0.18088136	3.0965173	20	8 2.7	21.3
441027 2007 EN_{196}	18.2	X	230.31472	171.22097	19.85699	1.87680	0.1224656	0.27131631	2.3631182	20	—	—
441028 2007 EW_{210}	17.8	X	233.19835	210.64742	355.22924	3.46635	0.1939030	0.27786648	2.3258335	20	—	—
441029 2007 EX_{217}	17.7	X	137.28397	80.52770	196.79506	1.87330	0.2037634	0.26490253	2.4011096	20	—	—
441030 2007 EB_{221}	18.0	X	176.13308	133.39400	76.38991	2.39605	0.1374004	0.26278615	2.4139841	20	11 25.6	21.7
441031 2007 FW_{2}	17.1	X	197.02569	107.60416	94.71114	12.21654	0.1973969	0.26780393	2.3837356	20	12 3.9	20.7
441032 2007 FS_{7}	16.3	X	274.45934	235.61187	176.51181	10.15829	0.1989823	0.18524601	3.0476854	20	8 7.1	20.6
441033 2007 FD_{13}	17.6	X	179.36644	351.04851	242.09323	5.16969	0.1866496	0.26870545	2.3784009	20	12 24.5	21.3
441034 2007 FR_{20}	17.9	X	227.67181	262.51616	317.85383	4.42104	0.1817482	0.27719716	2.3295759	20	—	—
441035 2007 FF_{25}	18.0	X	142.36431	231.09423	19.14888	1.13017	0.1500155	0.26373314	2.4082020	20	12 12.5	21.7
441036 2007 GC_{11}	17.5	X	254.27923	65.75849	101.47009	3.02607	0.1466917	0.27462426	2.3441035	20	—	—
441037 2007 GG_{21}	18.0	X	131.20018	97.18163	192.00019	2.53098	0.2005870	0.26327058	2.4110219	20	—	—
441038 2007 GW_{21}	17.6	X	127.74108	250.36353	46.32937	6.87259	0.1222285	0.26528570	2.3987969	20	—	—
441039 2007 GB_{51}	18.0	X	220.26325	144.52758	54.62081	3.79093	0.1205492	0.26766007	2.3845897	20	—	—
441040 2007 GG_{59}	17.8	X	152.70887	256.04663	346.52297	1.33688	0.1504120	0.26174808	2.4203623	20	12 12.2	21.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
441041 2007 GZ_{66}	17.7	X	142.82395	239.49218	39.21865	3.79369	0.1116214	0.26479000	2.4017898	20	—	—
441042 2007 HF_{3}	18.0	X	167.42981	40.91909	183.71767	1.46653	0.1229575	0.26237191	2.4165243	20	12 6.3	21.7
441043 2007 HD_{13}	17.4	X	190.55485	122.21513	96.72078	3.12849	0.1575480	0.26605178	2.3941899	20	12 20.5	20.7
441044 2007 HK_{30}	18.1	X	274.48035	102.08309	47.37914	2.09841	0.1272587	0.27376662	2.3489966	20	—	—
441045 2007 HC_{41}	17.3	X	118.50156	153.44623	125.34258	3.26064	0.2128729	0.25965089	2.4333776	20	12 25.5	21.5
441046 2007 HM_{45}	17.8	X	96.72365	183.36050	125.83377	3.55483	0.2067016	0.25848708	2.4406761	20	—	—
441047 2007 HH_{64}	17.5	X	170.33119	162.82584	81.81597	3.22647	0.1490918	0.26568919	2.3963677	20	—	—
441048 2007 HD_{67}	17.2	X	81.08103	223.81397	116.49071	8.09870	0.1786857	0.26068888	2.4269140	20	—	—
441049 2007 HW_{83}	17.6	X	135.84853	183.16430	111.70997	4.52279	0.1439505	0.26490816	2.4010756	20	—	—
441050 2007 JH_{1}	17.9	X	142.59423	123.93497	175.16370	1.04591	0.1933545	0.26895584	2.3769246	20	—	—
441051 2007 JT_{41}	17.9	X	145.77795	206.59204	58.32063	2.37462	0.1561580	0.26439984	2.4041520	20	—	—
441052 2007 JO_{44}	17.2	X	123.19851	217.91798	108.06765	6.32584	0.2458458	0.26467378	2.4024929	20	—	—
441053 2007 LB_{10}	17.2	X	95.94610	141.24108	158.13600	10.48234	0.1515859	0.25632303	2.4543941	20	12 28.4	21.2
441054 2007 LR_{17}	17.3	X	128.79543	154.27390	152.52864	14.35201	0.0818912	0.26507737	2.4000536	20	—	—
441055 2007 LS_{24}	17.7	X	201.70104	124.25640	99.31494	3.38829	0.1167125	0.26624847	2.3930107	20	—	—
441056 2007 LC_{25}	18.0	X	164.25618	139.31833	93.09693	2.33124	0.1419152	0.26004392	2.4309251	20	12 11.0	21.6
441057 2007 PX_{10}	17.4	X	57.61766	350.13773	260.45816	11.01674	0.1367302	0.23137716	2.6277803	20	9 3.8	21.1
441058 2007 PH_{25}	16.5	X	35.28410	331.80970	150.30484	53.23904	0.8128073	0.24327259	2.5414053	20	6 27.4	20.9
441059 2007 PF_{33}	17.5	X	217.69535	46.67064	327.24549	17.90959	0.0870146	0.36176663	1.9506696	20	4 13.2	20.3
441060 2007 PR_{45}	16.4	X	79.69779	244.33804	64.18036	12.38605	0.2058594	0.24554391	2.5257087	20	12 25.8	20.6
441061 2007 QX_{13}	17.4	X	80.13858	135.69197	168.08287	13.12036	0.1244809	0.24231696	2.5480826	20	12 14.7	21.4
441062 2007 QV_{14}	18.2	X	78.24921	279.60981	9.03710	4.01946	0.2318673	0.24092825	2.5578647	20	12 1.8	22.3
441063 2007 RG_{4}	17.6	X	43.20782	16.31925	356.16445	7.97354	0.2069609	0.24551767	2.5258887	20	—	—
441064 2007 RF_{9}	17.8	X	27.56795	79.22956	317.82191	9.17227	0.2923332	0.24355806	2.5394191	20	—	—
441065 2007 RV_{11}	18.5	X	50.95111	347.31744	4.91985	6.64019	0.2989117	0.24275731	2.5450003	20	—	—
441066 2007 RA_{17}	17.8	X	329.49073	307.24152	334.60674	18.56676	0.0672162	0.36623936	1.9347553	20	5 17.8	20.1
441067 2007 RN_{30}	17.3	X	36.48177	41.16283	305.17008	13.81730	0.2755040	0.23978376	2.5659973	20	—	—
441068 2007 RF_{34}	17.7	X	315.38397	135.09910	183.45326	21.85604	0.0795076	0.37042242	1.9201620	20	6 30.3	19.9
441069 2007 RQ_{58}	16.1	X	312.23666	102.04051	272.61183	12.95780	0.1851212	0.22594982	2.6696933	20	8 20.5	19.1
441070 2007 RA_{63}	17.2	X	291.73723	246.61436	160.15875	12.64824	0.2700352	0.22545860	2.6735697	20	8 20.1	20.0
441071 2007 RU_{63}	17.8	X	34.45476	229.39671	157.28035	1.44416	0.1689526	0.24636512	2.5200930	20	—	—
441072 2007 RX_{64}	15.6	X	191.06850	39.72417	347.45076	2.42823	0.2778930	0.12414091	3.9797833	20	4 19.9	22.4
441073 2007 RX_{73}	17.4	X	329.01048	193.67788	159.64491	7.19421	0.1539501	0.22681390	2.6629087	20	9 2.5	19.9
441074 2007 RQ_{87}	18.4	X	43.91010	199.66038	176.01365	9.71890	0.2979069	0.24401724	2.5362323	20	—	—
441075 2007 RQ_{107}	15.0	X	161.38729	79.63609	351.03089	10.54775	0.1917628	0.12446827	3.9728023	20	5 14.0	21.5
441076 2007 RO_{111}	17.5	X	307.45812	262.22974	162.88545	3.67472	0.2023412	0.23088818	2.6314891	20	11 3.3	19.8
441077 2007 RC_{132}	18.1	X	28.83071	216.00402	137.71053	6.41799	0.2860678	0.23651899	2.5895564	20	—	—
441078 2007 RJ_{133}	17.8	X	303.13830	356.17456	305.18370	16.84697	0.0571429	0.36460633	1.9405280	20	5 4.1	20.1
441079 2007 RY_{152}	16.7	X	156.03426	262.39707	332.15982	12.05651	0.0857558	0.24392428	2.5368767	20	12 3.3	20.7
441080 2007 RP_{155}	16.7	X	254.48838	167.72066	344.06205	14.36570	0.1162843	0.24417110	2.5351668	20	12 13.2	20.1
441081 2007 RS_{171}	18.3	X	19.02329	261.62691	114.62351	2.64613	0.2492209	0.23965163	2.5669405	20	—	—
441082 2007 RZ_{171}	18.4	X	23.53328	1.62564	41.75679	3.19947	0.2179029	0.24496949	2.5296555	20	—	—
441083 2007 RZ_{178}	17.6	X	54.63497	293.29177	33.74279	8.99149	0.1836222	0.23879116	2.5731033	20	12 20.7	21.4
441084 2007 RT_{182}	17.9	X	83.38299	314.78833	0.29017	14.33574	0.1329179	0.24474310	2.5312152	20	—	—
441085 2007 RM_{186}	17.7	X	19.45280	23.39613	355.93301	4.06541	0.3207600	0.23802383	2.5786304	20	—	—
441086 2007 RK_{188}	17.0	X	352.53887	134.90257	205.74259	6.70277	0.1790436	0.22938218	2.6429946	20	10 3.9	19.5
441087 2007 RJ_{201}	17.8	X	20.86713	13.81955	333.90933	1.39400	0.1739342	0.23452560	2.6042092	20	12 3.7	21.0
441088 2007 RF_{202}	17.5	X	327.81361	103.24038	291.22746	0.91402	0.1033163	0.23058826	2.6337705	20	10 31.4	20.3
441089 2007 RY_{205}	18.6	X	29.51835	16.30229	348.00029	4.82819	0.2805412	0.24066894	2.5597017	20	—	—
441090 2007 RA_{216}	17.2	X	284.05973	260.19397	190.06887	14.00295	0.2183225	0.22996957	2.6384921	20	10 20.5	19.9
441091 2007 RT_{221}	18.3	X	47.81617	101.77518	222.47524	1.16891	0.2198146	0.23619612	2.5919157	20	12 14.5	22.0
441092 2007 RY_{238}	14.9	X	193.88863	296.71085	99.32072	6.90593	0.3276479	0.12596108	3.9413511	20	5 3.9	21.8
441093 2007 RR_{240}	16.8	X	37.98256	112.31020	252.18188	14.03647	0.1616745	0.24319454	2.5419490	20	—	—
441094 2007 RO_{248}	17.7	X	72.67610	115.29697	171.30221	14.99992	0.2541447	0.23862145	2.5743232	20	11 29.1	22.1
441095 2007 RK_{252}	16.7	X	273.68830	56.87838	328.01324	5.81676	0.0802495	0.21852810	2.7298022	20	7 25.0	20.2
441096 2007 RZ_{280}	17.0	X	26.42447	92.37488	293.46398	9.88335	0.2103686	0.24119897	2.5559504	20	—	—
441097 2007 RL_{281}	17.5	X	347.73432	80.38622	324.78201	11.69941	0.3105317	0.23317497	2.6142559	20	—	—
441098 2007 RT_{312}	17.3	X	53.35440	141.47889	165.96251	4.88393	0.2823683	0.23541241	2.5976650	20	12 7.3	21.3
441099 2007 RK_{321}	18.1	X	27.13039	27.04773	344.01274	6.57433	0.2588606	0.24025599	2.5626339	20	—	—
441100 2007 RF_{325}	17.8	X	5.55208	311.54823	69.02520	2.88430	0.1078476	0.23153369	2.6265958	20	12 13.9	21.0
441101 2007 SB_{3}	18.0	X	13.85997	230.28274	176.90640	6.20253	0.2763729	0.24215149	2.5492433	20	—	—
441102 2007 SD_{5}	16.9	X	30.01729	243.81974	115.11317	3.11689	0.2112670	0.23764679	2.5813570	20	—	—
441103 2007 SP_{6}	18.1	X	26.03561	331.60105	68.26969	14.09490	0.5458440	0.24040640	2.5615649	20	—	—
441104 2007 SB_{11}	17.6	X	74.33433	203.16630	126.84480	5.16260	0.2513870	0.24336519	2.5407606	20	—	—
441105 2007 SE_{24}	17.1	X	6.71069	63.99793	263.10527	5.79841	0.2559879	0.22579113	2.6709441	20	10 21.7	19.7
441106 2007 TF_{4}	16.9	X	43.92087	214.59510	151.76593	6.13810	0.3158057	0.23968049	2.5667344	20	—	—
441107 2007 TG_{5}	18.2	X	56.63770	136.30015	207.64749	5.17459	0.2461730	0.24238090	2.5476345	20	—	—
441108 2007 TZ_{5}	17.5	X	330.74076	45.70328	11.42022	4.63782	0.2739231	0.23254447	2.6189791	20	12 21.3	19.4
441109 2007 TV_{9}	17.5	X	2.12061	138.98848	189.99703	13.73148	0.2390927	0.22802621	2.6534620	20	10 16.4	19.9
441110 2007 TC_{12}	16.6	X	326.52244	36.62833	20.45322	13.62481	0.1235916	0.23185000	2.6242064	20	11 27.2	19.6
441111 2007 TD_{20}	17.8	X	24.18232	182.31478	201.37272	4.17700	0.2220386	0.23936227	2.5690088	20	—	—
441112 2007 TU_{23}	17.8	X	24.25309	10.78909	202.57002	20.63684	0.0371418	0.36093510	1.9536644	20	5 14.8	19.6
441113 2007 TO_{34}	17.2	X	346.88147	338.10226	37.13299	3.19808	0.1859717	0.22852771	2.6495786	20	11 13.4	19.7
441114 2007 TG_{35}	17.6	X	22.35724	4.01550	14.18975	6.09712	0.2659992	0.23638784	2.5905141	20	—	—
441115 2007 TX_{36}	18.1	X	29.91860	206.78265	190.24798	3.76654	0.1951843	0.24387588	2.5372123	20	—	—
441116 2007 TL_{38}	16.8	X	1.73719	197.83064	213.89557	12.18719	0.2621516	0.23587888	2.5942392	20	—	—
441117 2007 TT_{43}	16.9	X	334.54073	148.14388	224.86986	12.90966	0.2659499	0.22656228	2.6648799	20	10 14.5	18.9
441118 2007 TD_{46}	17.3	X	57.44934	335.53763	1.29680	4.94395	0.2732914	0.23878173	2.5731710	20	—	—
441119 2007 TV_{48}	17.7	X	9.44231	40.45382	348.41628	2.50382	0.2578913	0.23648599	2.5897973	20	—	—
441120 2007 TL_{56}	17.8	X	17.90611	199.65752	210.60565	11.32370	0.2386880	0.24052022	2.5607567	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
441121 2007 TL_{62}	18.0	X	329.65151	39.14113	20.06507	1.90966	0.1420849	0.23261282	2.6184660	20	12 10.6	20.6
441122 2007 TK_{64}	17.7	X	290.89629	249.60946	178.87105	2.87093	0.1422884	0.22425762	2.6831065	20	10 10.8	20.6
441123 2007 TK_{76}	17.5	X	352.67647	232.37500	171.64025	14.68261	0.1654913	0.23981282	2.5657901	20	—	—
441124 2007 TN_{76}	17.8	X	359.31292	225.33105	153.85860	3.97673	0.1308185	0.23770661	2.5809239	20	12 8.2	20.7
441125 2007 TJ_{78}	17.8	X	7.50613	19.27006	357.29119	3.51824	0.1611922	0.23315285	2.6144212	20	12 19.9	20.8
441126 2007 TU_{86}	18.2	X	17.78844	193.30769	170.13945	3.67531	0.2432264	0.23396820	2.6083438	20	12 30.5	21.4
441127 2007 TW_{86}	17.6	X	300.42199	352.16040	87.69737	3.42641	0.1848156	0.22830002	2.6513399	20	11 10.4	20.0
441128 2007 TB_{88}	17.7	X	19.17830	244.39512	177.67384	4.54905	0.2288325	0.24215176	2.5492414	20	—	—
441129 2007 TM_{93}	18.0	X	18.28381	213.41610	171.69002	2.58197	0.2448054	0.23702016	2.5859047	20	—	—
441130 2007 TG_{95}	17.5	X	63.96217	247.34971	83.11536	5.96905	0.3214784	0.24116902	2.5561620	20	—	—
441131 2007 TG_{108}	16.5	X	303.78874	183.34752	196.34386	15.69511	0.1364524	0.22298539	2.6933024	20	8 20.4	19.8
441132 2007 TN_{111}	18.2	X	359.72046	115.29818	286.67089	3.83933	0.3121759	0.23664079	2.5886677	20	—	—
441133 2007 TZ_{114}	18.1	X	48.86820	235.95383	140.80013	3.30304	0.2803763	0.24310209	2.5425934	20	—	—
441134 2007 TM_{121}	15.6	X	200.18750	26.36642	359.83956	3.72675	0.2003620	0.12571767	3.9464370	20	4 26.2	22.0
441135 2007 TP_{125}	17.3	X	308.24352	339.18997	79.12415	3.08134	0.1227886	0.22765858	2.6563178	20	10 30.5	20.0
441136 2007 TA_{129}	17.6	X	24.57987	136.92387	227.10553	1.26959	0.1886712	0.23445511	2.6047312	20	—	—
441137 2007 TC_{132}	18.0	X	47.97354	174.40499	176.41834	1.84526	0.2380684	0.23887214	2.5725217	20	—	—
441138 2007 TS_{138}	16.7	X	356.96216	128.51866	285.71912	10.58305	0.1799035	0.23877769	2.5732000	20	—	—
441139 2007 TG_{142}	17.3	X	16.43486	235.07173	159.50895	6.58125	0.3425169	0.23693018	2.5865594	20	—	—
441140 2007 TC_{143}	16.3	X	342.57905	195.69692	144.35993	37.66360	0.3023660	0.22514505	2.6760514	20	9 21.5	18.6
441141 2007 TO_{146}	17.6	X	30.80780	327.61614	33.93920	5.76192	0.3343433	0.23735256	2.5834899	20	—	—
441142 2007 TV_{148}	16.5	X	334.69528	358.67870	18.15309	8.69356	0.0946799	0.22739078	2.6584030	20	10 17.3	19.6
441143 2007 TO_{170}	17.8	X	15.25175	145.57316	266.84015	3.48908	0.3416162	0.23865615	2.5740736	20	—	—
441144 2007 TV_{180}	17.9	X	51.64515	283.32881	63.61152	6.47521	0.3483698	0.24134438	2.5549236	20	—	—
441145 2007 TM_{194}	17.7	X	309.19839	60.30406	29.90341	2.26057	0.1355729	0.23379309	2.6096461	20	12 16.3	20.5
441146 2007 TU_{197}	17.0	X	122.34618	207.97156	15.94254	16.76056	0.1268918	0.22640970	2.6660770	20	10 15.1	21.2
441147 2007 TT_{200}	18.6	X	42.06306	95.17948	249.93242	0.84766	0.3178886	0.23834012	2.5763486	20	—	—
441148 2007 TE_{201}	17.6	X	51.95097	95.51096	230.16294	1.57842	0.1232678	0.23376411	2.6098617	20	12 7.9	21.0
441149 2007 TT_{204}	17.2	X	15.35429	239.11122	94.57190	4.12956	0.0964859	0.22540121	2.6740235	20	10 26.1	20.5
441150 2007 TZ_{207}	16.7	X	322.28651	342.29352	67.58560	12.41807	0.1928325	0.23008102	2.6376400	20	11 14.7	19.1
441151 2007 TC_{218}	17.6	X	18.01407	349.57903	28.42731	5.89179	0.2105146	0.23468718	2.6030138	20	—	—
441152 2007 TV_{221}	18.6	X	35.02987	338.16460	16.67127	4.99955	0.3145710	0.24070589	2.5594397	20	—	—
441153 2007 TD_{222}	17.8	X	65.62053	238.04720	78.15955	1.64912	0.1977666	0.23778655	2.5803455	20	12 20.4	21.6
441154 2007 TU_{226}	17.9	X	19.73089	336.28191	42.47253	5.99382	0.0827842	0.23586355	2.5943516	20	12 29.5	21.2
441155 2007 TZ_{226}	16.8	X	58.76110	295.08741	27.61245	15.27478	0.1506216	0.23472483	2.6027354	20	12 13.3	20.8
441156 2007 TR_{229}	17.4	X	68.13924	58.09260	215.32001	7.57613	0.0871174	0.22393326	2.6856968	20	10 14.3	21.1
441157 2007 TY_{232}	17.5	X	355.84621	196.75968	194.37813	2.01280	0.1008960	0.23094135	2.6310853	20	12 12.5	20.6
441158 2007 TM_{238}	17.3	X	358.03185	98.03218	287.88603	3.69082	0.2727306	0.23315316	2.6144189	20	—	—
441159 2007 TC_{248}	17.4	X	11.20525	52.10491	349.07995	13.57165	0.2877509	0.23898533	2.5717093	20	—	—
441160 2007 TN_{262}	17.1	X	30.86625	86.30143	221.87116	11.70055	0.2782155	0.22774386	2.6556547	20	11 11.0	20.4
441161 2007 TG_{271}	17.4	X	347.81972	4.17872	0.50686	2.85818	0.0942792	0.22690502	2.6621957	20	10 22.1	20.4
441162 2007 TB_{275}	17.3	X	40.18885	289.57550	40.26831	5.17327	0.1875538	0.23589176	2.5941447	20	12 7.9	20.7
441163 2007 TX_{277}	18.1	X	68.98635	78.86057	229.75788	2.63612	0.1639221	0.23714951	2.5849644	20	12 11.1	21.9
441164 2007 TK_{278}	17.2	X	266.92143	148.16590	247.84085	2.11639	0.1831818	0.21547082	2.7555634	20	7 13.3	20.9
441165 2007 TD_{286}	17.8	X	48.16369	301.08105	40.43144	6.54134	0.1926173	0.23890174	2.5723092	20	—	—
441166 2007 TQ_{312}	17.7	X	6.80991	318.57586	50.60291	6.55557	0.2105823	0.23333188	2.6130837	20	12 16.3	20.7
441167 2007 TB_{316}	17.7	X	59.50814	234.99620	72.87334	3.37471	0.1706898	0.23158522	2.6262062	20	11 29.9	21.4
441168 2007 TE_{319}	17.5	X	7.97545	240.95704	160.80746	2.35642	0.1208028	0.23594016	2.5937900	20	—	—
441169 2007 TZ_{330}	17.8	X	18.02218	121.86273	264.10664	2.93177	0.2824726	0.23693193	2.5865467	20	—	—
441170 2007 TX_{332}	18.0	X	50.79685	16.35589	1.73732	2.30152	0.2583591	0.24288267	2.5441245	20	—	—
441171 2007 TF_{350}	17.5	X	17.49272	239.20698	155.56516	7.19826	0.2305664	0.24368529	2.5385351	20	—	—
441172 2007 TD_{365}	17.1	X	10.93484	84.73279	315.46423	10.26201	0.2091097	0.23837826	2.5760737	20	—	—
441173 2007 TG_{367}	17.6	X	19.26138	64.69091	324.35867	3.23086	0.2136728	0.23723842	2.5843185	20	—	—
441174 2007 TZ_{377}	17.6	X	13.84306	242.24486	122.32597	4.37174	0.2514595	0.23433666	2.6056088	20	12 28.1	20.6
441175 2007 TY_{387}	17.5	X	49.84800	290.81690	40.54465	4.51323	0.1733786	0.23807158	2.5782856	20	12 19.8	21.1
441176 2007 TX_{395}	16.7	X	223.09756	251.33793	274.90749	6.10004	0.1555500	0.23032696	2.6357621	20	11 11.6	20.5
441177 2007 TM_{403}	17.4	X	30.87643	84.66151	301.60056	2.24469	0.1348033	0.23876163	2.5733155	20	—	—
441178 2007 TK_{411}	17.8	X	1.00317	33.11490	203.11010	21.39202	0.0599768	0.35950324	1.9588485	20	5 10.6	19.4
441179 2007 TH_{412}	17.4	X	58.62778	3.17136	343.57379	7.31317	0.2015048	0.24012148	2.5635908	20	—	—
441180 2007 TW_{423}	17.2	X	332.19427	219.54487	199.43945	9.40903	0.1052958	0.23487905	2.6015960	20	12 13.8	20.2
441181 2007 TF_{424}	17.7	X	82.91653	253.39554	28.16914	4.90555	0.1786944	0.23324278	2.6137492	20	11 21.7	21.7
441182 2007 TD_{425}	17.9	X	26.35167	56.05316	3.55946	12.50420	0.2680381	0.24415297	2.5352923	20	—	—
441183 2007 TC_{427}	17.9	X	16.06618	329.71285	34.19221	5.01716	0.1323162	0.23357078	2.6113017	20	12 11.1	21.1
441184 2007 TB_{429}	17.2	X	40.56113	277.86027	34.78296	2.06582	0.0876427	0.22796858	2.6539091	20	10 31.3	20.5
441185 2007 TO_{430}	17.2	X	41.76575	186.01271	107.45363	6.12014	0.0895543	0.22107792	2.7087721	20	10 10.1	20.8
441186 2007 TO_{434}	15.6	X	206.54628	323.69219	65.83787	10.09762	0.2393090	0.12355672	3.9923180	20	5 6.2	22.2
441187 2007 TW_{438}	18.1	X	2.43120	326.48292	78.25706	2.24629	0.1435324	0.23793988	2.5792369	20	—	—
441188 2007 TC_{441}	17.0	X	340.42156	283.28791	95.42358	10.17053	0.1953671	0.22814687	2.6525264	20	11 10.1	19.6
441189 2007 TN_{444}	17.7	X	37.46956	261.93624	134.50885	4.87623	0.2596566	0.24274567	2.5450817	20	—	—
441190 2007 TD_{453}	17.1	X	5.26383	245.69761	66.68241	5.02987	0.0415092	0.21421279	2.7663414	20	9 5.1	20.7
441191 2007 UC_{7}	17.1	X	348.40314	94.90393	287.77997	15.33232	0.2458582	0.23231651	2.6206921	20	12 7.2	19.6
441192 2007 UR_{7}	16.9	X	6.28426	61.56599	327.34710	16.75667	0.3058566	0.23591799	2.5939525	20	—	—
441193 2007 UQ_{8}	17.4	X	33.68745	21.72003	315.82271	11.32949	0.2395975	0.23414016	2.6070665	20	12 17.7	21.1
441194 2007 UU_{15}	17.8	X	55.41088	118.00094	186.23510	4.21041	0.2416864	0.23594568	2.5937495	20	11 30.9	21.6
441195 2007 UL_{21}	17.8	X	318.45762	214.15661	189.12492	1.38216	0.0816854	0.22767515	2.6561890	20	10 28.0	20.6
441196 2007 UO_{42}	17.4	X	338.74043	52.68001	356.89097	4.22178	0.1675369	0.23123753	2.6288381	20	12 15.7	20.1
441197 2007 UZ_{58}	17.6	X	2.87402	356.49737	41.68336	6.62716	0.0923891	0.23478145	2.6023170	20	—	—
441198 2007 UL_{62}	17.6	X	29.38800	336.39370	26.49676	2.09930	0.1549194	0.23808745	2.5781710	20	—	—
441199 2007 UU_{64}	17.3	X	290.63877	152.59464	210.10621	4.92345	0.0927550	0.21330452	2.7741887	20	7 14.6	20.9
441200 2007 UB_{68}	17.6	X	340.24921	352.10139	73.53986	6.01464	0.2570817	0.23472922	2.6027030	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
441201 2007 UK_{77}	17.2	X	353.19822	291.39394	130.67380	10.09956	0.1956691	0.23698213	2.5861814	20	—	—
441202 2007 UB_{82}	17.9	X	63.19155	104.92601	229.12445	2.13751	0.2077214	0.23891889	2.5721861	20	—	—
441203 2007 UT_{83}	17.9	X	39.34356	114.49036	212.32731	1.31238	0.2148485	0.23108761	2.6299749	20	12 6.5	21.5
441204 2007 UG_{88}	16.4	X	77.93767	34.58767	238.44995	13.15214	0.1788683	0.22413077	2.6841188	20	11 4.9	20.6
441205 2007 UR_{91}	17.5	X	27.08592	123.27507	229.70348	5.92571	0.1914056	0.23216360	2.6218427	20	12 21.0	20.9
441206 2007 UU_{103}	16.3	X	68.83374	147.06305	86.20372	4.85809	0.0425069	0.20879259	2.8140123	20	8 17.4	20.2
441207 2007 UM_{106}	17.5	X	328.78204	8.42165	35.51299	7.44976	0.0849780	0.22760124	2.6567639	20	11 13.4	20.6
441208 2007 UH_{123}	17.2	X	67.76730	230.96586	103.68144	5.96940	0.2916865	0.24226109	2.5484744	20	—	—
441209 2007 UU_{131}	17.6	X	59.42622	238.05394	77.64784	12.09818	0.3024080	0.23453281	2.6041559	20	12 23.3	21.8
441210 2007 VX_{5}	17.0	X	30.32699	256.81488	147.62296	4.86118	0.2609600	0.24119029	2.5560117	20	—	—
441211 2007 VX_{10}	17.2	X	29.79063	283.79549	72.44875	7.10789	0.3087832	0.23486276	2.6017163	20	—	—
441212 2007 VZ_{10}	17.7	X	0.03429	296.49377	93.26372	5.56486	0.2856376	0.23250797	2.6192532	20	—	—
441213 2007 VC_{12}	16.8	X	296.99968	197.61826	241.12208	13.90703	0.0752417	0.22637456	2.6663530	20	11 10.3	20.0
441214 2007 VS_{40}	17.1	X	26.88953	184.19324	165.60871	4.85525	0.2210195	0.23351543	2.6117143	20	12 21.7	20.5
441215 2007 VP_{42}	17.2	X	355.85407	74.03744	296.07673	12.82075	0.2171006	0.22094144	2.7098875	20	11 23.6	20.2
441216 2007 VL_{45}	17.8	X	0.37782	52.34898	349.38314	4.44239	0.2082326	0.23500496	2.6006667	20	—	—
441217 2007 VN_{46}	18.0	X	16.75486	0.43019	0.47091	5.15661	0.2587941	0.23293551	2.6160473	20	12 28.6	21.2
441218 2007 VU_{46}	16.7	X	250.74224	219.48798	273.70905	4.69061	0.1206263	0.22733651	2.6588260	20	11 8.2	20.1
441219 2007 VN_{56}	17.1	X	10.96442	238.43401	116.55804	4.18642	0.1375687	0.22792931	2.6542140	20	11 22.5	20.2
441220 2007 VL_{63}	18.2	X	255.18208	211.30947	235.75608	21.25836	0.1357781	0.37420456	1.9072019	20	10 4.4	20.2
441221 2007 VK_{72}	16.9	X	356.90565	337.16084	56.45613	11.93894	0.2231772	0.23108546	2.6299913	20	—	—
441222 2007 VL_{72}	17.5	X	36.32783	296.78581	64.36742	3.23783	0.2487005	0.23505137	2.6003243	20	—	—
441223 2007 VW_{79}	17.6	X	38.12587	99.90821	235.15689	1.72346	0.2737440	0.23179495	2.6246219	20	12 23.2	21.3
441224 2007 VH_{84}	17.6	X	353.07529	352.28163	359.13399	5.55877	0.0514662	0.22374623	2.6871933	20	10 8.4	20.8
441225 2007 VA_{87}	17.0	X	356.07773	144.71552	248.71823	11.10447	0.1192413	0.23259750	2.6185811	20	12 18.2	19.9
441226 2007 VS_{111}	16.6	X	202.30755	239.59404	235.38192	7.46622	0.1612594	0.21044193	2.7992899	20	8 13.2	21.2
441227 2007 VN_{112}	17.0	X	87.30513	164.99057	67.66355	1.50835	0.0154533	0.21377684	2.7701010	20	9 5.5	20.8
441228 2007 VM_{117}	16.6	X	348.59580	276.94895	76.36627	11.66485	0.2850960	0.22606651	2.6687746	20	10 31.9	18.7
441229 2007 VE_{125}	17.2	X	38.15293	186.63239	188.81176	9.89738	0.2104243	0.23843386	2.5756732	20	—	—
441230 2007 VN_{126}	17.3	X	17.80640	172.51523	235.97010	3.20288	0.2333067	0.23909508	2.5709223	20	—	—
441231 2007 VJ_{160}	17.7	X	46.52612	170.39578	178.72123	4.78373	0.2387747	0.23637920	2.5905772	20	—	—
441232 2007 VT_{162}	18.0	X	326.14905	20.04465	20.73323	2.95509	0.1140871	0.22511252	2.6763092	20	11 4.8	21.0
441233 2007 VF_{163}	16.8	X	90.38527	65.87806	257.01279	5.84386	0.3012161	0.24155975	2.5534048	20	—	—
441234 2007 VV_{167}	16.9	X	48.01576	98.36873	256.36339	10.55889	0.1984602	0.23466966	2.6031434	20	—	—
441235 2007 VH_{188}	17.0	X	1.95936	334.01250	58.32489	14.54048	0.1255722	0.23204544	2.6227326	20	12 26.1	20.3
441236 2007 VN_{188}	17.4	X	343.68454	269.15888	120.38856	3.24485	0.2133459	0.22911097	2.6450799	20	12 1.9	19.8
441237 2007 VS_{208}	16.3	X	241.90932	19.11355	107.95086	17.51286	0.1849964	0.21362479	2.7714153	20	10 18.4	20.6
441238 2007 VF_{214}	17.1	X	52.33695	153.84063	117.61986	5.38866	0.0162104	0.21584434	2.7523835	20	9 12.4	20.8
441239 2007 VA_{220}	16.9	X	321.05397	321.89283	79.87041	6.46153	0.0799544	0.22160211	2.7044988	20	10 30.8	20.1
441240 2007 VK_{221}	18.2	X	24.79028	89.76111	250.35587	1.18958	0.2211442	0.23149118	2.6269174	20	12 5.9	21.5
441241 2007 VS_{221}	17.5	X	3.55002	238.52086	193.75711	4.99647	0.3050517	0.23839913	2.5759233	20	—	—
441242 2007 VW_{223}	17.7	X	340.94543	271.61126	137.05258	4.21684	0.2602906	0.23168396	2.6254600	20	12 31.1	19.9
441243 2007 VJ_{233}	17.8	X	358.02089	278.68835	71.30307	2.23679	0.1031254	0.22306442	2.6926661	20	10 20.2	20.8
441244 2007 VS_{240}	16.4	X	346.15290	306.97259	89.05511	14.28168	0.1879544	0.22901312	2.6458332	20	12 13.1	19.0
441245 2007 VW_{240}	17.3	X	42.18058	274.84320	93.25912	12.53061	0.3072251	0.23912510	2.5707071	20	—	—
441246 2007 VV_{246}	16.8	X	64.15923	39.44145	263.12431	12.52169	0.1718949	0.23004114	2.6379449	20	11 27.7	20.6
441247 2007 VU_{250}	16.4	X	201.35093	208.29850	288.95626	7.89076	0.0414010	0.22011808	2.7166409	20	9 19.1	20.3
441248 2007 VA_{252}	17.7	X	335.35524	263.58771	130.58270	3.50347	0.1757922	0.22782016	2.6550617	20	11 17.7	20.1
441249 2007 VW_{252}	17.6	X	337.03680	259.26555	147.86870	4.28971	0.2536636	0.23051835	2.6343029	20	12 18.6	19.7
441250 2007 VY_{255}	17.9	X	25.72656	329.80279	22.09716	3.82421	0.1674554	0.23031731	2.6358357	20	12 13.6	21.3
441251 2007 VF_{264}	17.1	X	40.02427	338.15848	32.98900	3.29371	0.0661736	0.23457414	2.6038500	20	—	—
441252 2007 VO_{266}	16.5	X	108.07409	219.46536	83.78423	10.14036	0.1187778	0.23283473	2.6168020	20	—	—
441253 2007 VX_{268}	16.8	X	3.86186	337.26086	93.80387	8.71080	0.1262380	0.23795937	2.5790960	20	—	—
441254 2007 VZ_{275}	17.0	X	317.53271	329.57638	72.73356	6.15976	0.1107395	0.22248806	2.6973144	20	10 25.0	20.0
441255 2007 VG_{280}	18.1	X	39.30989	105.04499	238.23284	3.33900	0.2234521	0.23359854	2.6110947	20	12 28.3	21.7
441256 2007 VY_{287}	17.2	X	344.66905	353.89627	14.43722	6.29358	0.0411946	0.22193927	2.7017590	20	10 18.1	20.4
441257 2007 VY_{292}	16.6	X	346.68547	261.80998	130.77884	12.97635	0.2127728	0.23017661	2.6369097	20	12 14.2	19.4
441258 2007 VR_{300}	17.2	X	359.32302	199.87464	217.37585	12.57618	0.2552595	0.23529142	2.5985554	20	—	—
441259 2007 VP_{303}	16.9	X	32.82726	24.85861	338.69741	14.72178	0.1051564	0.23542304	2.5975868	20	—	—
441260 2007 VD_{309}	17.3	X	324.69925	71.51287	312.19434	5.72278	0.0514227	0.22203239	2.7010036	20	10 7.2	20.8
441261 2007 VG_{309}	17.9	X	33.98272	10.98244	359.60549	5.19452	0.2659913	0.23754446	2.5820983	20	—	—
441262 2007 VL_{311}	16.9	X	329.95459	191.41155	233.27067	12.27897	0.2685399	0.22922103	2.6442331	20	12 27.2	19.0
441263 2007 VE_{312}	16.7	X	231.20489	237.62979	256.63465	12.50201	0.1569454	0.22015588	2.7163300	20	10 5.9	21.0
441264 2007 VP_{314}	17.0	X	308.52789	319.77399	94.35551	7.06953	0.1290897	0.22501551	2.6770783	20	10 26.4	20.0
441265 2007 VF_{315}	17.7	X	25.23300	141.03894	235.76859	10.77684	0.1989723	0.23456038	2.6039518	20	—	—
441266 2007 VE_{323}	17.0	X	313.29018	130.79726	308.48974	5.83288	0.3844932	0.22728434	2.6592329	20	11 25.8	18.0
441267 2007 VH_{328}	17.0	X	5.92729	85.51886	269.84107	9.96291	0.2083436	0.22780466	2.6551821	20	11 23.5	19.9
441268 2007 VA_{329}	16.9	X	343.95856	340.80784	77.57210	12.62768	0.1669024	0.23191760	2.6236964	20	—	—
441269 2007 VB_{330}	15.9	X	28.21608	91.52458	86.68755	15.66027	0.1393054	0.17815421	3.1280378	20	4 22.4	19.9
441270 2007 VE_{330}	16.4	X	6.74434	101.18511	260.18486	25.94809	0.3100906	0.23143313	2.6273566	20	12 20.8	19.3
441271 2007 VL_{333}	17.2	X	4.91234	228.61174	143.07621	6.52798	0.3087216	0.23074435	2.6325825	20	—	—
441272 2007 VB_{334}	17.1	X	321.19519	5.65626	47.85076	5.76764	0.1761686	0.22213779	2.7001491	20	11 12.8	19.6
441273 2007 WF_{1}	17.8	X	14.21057	79.86274	265.90381	1.14047	0.1377860	0.22740347	2.6583041	20	11 13.7	20.9
441274 2007 WJ_{6}	16.0	X	50.77116	72.93895	270.55633	15.60037	0.2629838	0.23485573	2.6017682	20	—	—
441275 2007 WF_{7}	17.5	X	24.44178	355.74702	23.47291	5.35451	0.2564871	0.23593007	2.5938639	20	—	—
441276 2007 WR_{12}	17.4	X	0.29366	90.36301	315.63065	3.22026	0.2934771	0.23145636	2.6271809	20	—	—
441277 2007 WK_{29}	16.9	X	309.87280	142.59952	271.05586	8.76454	0.0825814	0.22358229	2.6885067	20	10 23.7	20.3
441278 2007 WB_{44}	16.1	X	116.34303	221.12344	304.00104	9.65140	0.1039065	0.19059841	2.9903581	20	7 23.3	20.5
441279 2007 WL_{58}	16.6	X	334.62660	123.00106	262.35620	5.05471	0.0416246	0.22232164	2.6986603	20	10 25.3	20.1
441280 2007 XK_{6}	17.6	X	307.98774	308.90451	106.80704	5.93990	0.2472375	0.22423115	2.6833176	20	10 16.3	19.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
441281 2007 XQ_{11}	17.5	X	22.78435	284.57748	85.12490	4.08539	0.2597573	0.23428813	2.6059687	20	—	—
441282 2007 XY_{11}	16.6	X	344.51056	312.22127	57.12606	10.74682	0.0965068	0.22429319	2.6828228	20	10 26.3	19.7
441283 2007 XL_{16}	16.9	X	359.07609	326.60411	48.01939	6.88505	0.2079984	0.22740781	2.6582702	20	12 8.1	19.6
441284 2007 XJ_{17}	16.7	X	298.30007	348.89708	88.71820	14.85480	0.2528319	0.22167837	2.7038785	20	10 29.7	19.5
441285 2007 XO_{19}	16.7	X	6.57023	88.10287	269.26388	10.91844	0.2870607	0.22912598	2.6449644	20	12 11.8	19.5
441286 2007 XZ_{31}	16.5	X	329.13350	56.20633	261.08036	12.73292	0.2155236	0.21058535	2.7980187	20	6 30.4	19.1
441287 2007 XX_{33}	17.3	X	20.90840	90.33630	310.84200	2.84143	0.2510012	0.23706350	2.5855896	20	—	—
441288 2007 XP_{39}	17.4	X	321.37738	133.65479	292.36759	12.26743	0.2332249	0.22487325	2.6782073	20	12 2.7	19.8
441289 2007 XH_{53}	17.8	X	1.75277	14.34151	22.04440	1.70930	0.3171266	0.22858033	2.6491720	20	—	—
441290 2007 XC_{56}	16.9	X	323.52262	18.98108	56.47384	14.81407	0.2291024	0.22654760	2.6649950	20	12 22.9	19.3
441291 2007 YY_{4}	16.6	X	348.08580	2.31036	54.46673	10.10506	0.1611594	0.23198007	2.6232254	20	—	—
441292 2007 YM_{13}	16.8	X	329.37341	292.29598	88.73214	14.72961	0.1159031	0.21489885	2.7604506	20	10 20.2	20.2
441293 2007 YZ_{14}	16.1	X	5.48865	127.73615	272.08723	30.83080	0.2151223	0.23314956	2.6144459	20	—	—
441294 2007 YO_{15}	17.2	X	25.66036	63.07573	282.58157	4.96260	0.0815673	0.22382803	2.6865385	20	11 20.4	20.6
441295 2007 YG_{35}	17.3	X	303.16070	147.37494	294.48702	7.41137	0.1433204	0.22203776	2.7009601	20	11 17.2	20.2
441296 2007 YV_{38}	16.9	X	317.27532	344.68528	78.07373	6.05509	0.1013246	0.22103504	2.7091224	20	11 20.0	19.9
441297 2007 YL_{40}	17.5	X	352.83286	305.53586	45.28899	6.75833	0.0692663	0.21370467	2.7707247	20	10 9.6	20.8
441298 2007 YP_{53}	16.9	X	340.94847	118.81190	307.31865	29.79767	0.3124940	0.22774751	2.6556262	20	—	—
441299 2007 YB_{55}	16.8	X	223.55093	331.86121	101.50700	11.97094	0.0927377	0.19954646	2.9002807	20	7 22.4	21.0
441300 2007 YC_{57}	16.7	X	290.84091	129.42579	290.31001	6.17546	0.0610113	0.21210259	2.7846593	20	10 2.3	20.4
441301 2007 YC_{63}	16.1	X	289.82204	202.56336	110.25911	11.09272	0.0990145	0.18704715	3.0280891	20	5 11.5	20.4
441302 2007 YG_{72}	16.8	X	6.69153	334.21554	98.10801	13.03338	0.1700624	0.23172263	2.6251679	20	—	—
441303 2008 AL_{4}	17.1	X	333.58551	110.29764	297.99629	11.62847	0.3540944	0.22432784	2.6825466	20	12 22.6	18.7
441304 2008 AU_{26}	20.9	X	230.08955	128.65029	299.51842	2.66459	0.1023292	0.59823625	1.3949358	20	9 8.7	19.8
441305 2008 AG_{38}	17.4	X	272.25865	287.45730	140.46798	8.25845	0.2171156	0.21182619	2.7870811	20	8 27.9	21.1
441306 2008 AK_{39}	16.7	X	19.98595	298.36764	117.16562	9.31434	0.2344486	0.23248157	2.6194515	20	—	—
441307 2008 AA_{41}	16.4	X	1.48618	80.20328	119.45013	14.28345	0.0823362	0.17213075	3.2005927	20	4 4.7	20.7
441308 2008 AS_{52}	16.8	X	76.93427	339.42929	291.59583	3.49048	0.0693953	0.20974323	2.8055030	20	10 16.2	20.9
441309 2008 AO_{59}	16.7	X	276.18742	144.47024	295.43118	6.54071	0.1161208	0.21306105	2.7763018	20	9 30.2	20.3
441310 2008 AQ_{67}	17.0	X	201.12543	147.50719	307.59247	5.08779	0.0287870	0.19619071	2.9332591	20	7 29.1	21.2
441311 2008 AM_{72}	15.4	X	6.28061	268.18949	304.30208	21.28792	0.3634789	0.17305331	3.1892075	20	4 3.8	18.3
441312 2008 AZ_{76}	16.8	X	340.81971	19.12062	14.79812	3.58348	0.1849824	0.21970168	2.7200724	20	11 24.3	19.5
441313 2008 AX_{83}	17.6	X	155.58763	145.96635	302.13497	15.97605	0.1004324	0.34833390	2.0005015	20	5 26.3	20.5
441314 2008 AG_{91}	17.2	X	315.55779	111.41177	286.15117	5.52036	0.0782043	0.21353267	2.7722123	20	10 9.2	20.6
441315 2008 AJ_{91}	17.0	X	298.54131	302.34662	113.36794	4.88912	0.0868163	0.21560592	2.7544121	20	10 12.5	20.3
441316 2008 AV_{125}	17.8	X	311.96852	274.14591	118.95160	8.63967	0.2359828	0.21417443	2.7666717	20	9 19.7	20.4
441317 2008 AF_{127}	16.0	X	167.98346	215.30036	329.78920	14.07400	0.0897845	0.21047035	2.7990379	20	10 5.3	20.5
441318 2008 AJ_{134}	17.5	X	330.36229	327.77891	54.74615	3.62571	0.1890403	0.21625049	2.7489361	20	10 17.2	20.1
441319 2008 AH_{136}	17.0	X	233.67029	85.21313	30.34577	8.42732	0.1713138	0.20982619	2.8047635	20	9 19.9	21.1
441320 2008 AF_{138}	16.8	X	285.91475	293.94181	140.92273	14.05666	0.1295567	0.21497559	2.7597937	20	10 16.0	20.3
441321 2008 BE_{4}	16.8	X	234.10781	133.81058	314.92954	14.50023	0.1055382	0.20518370	2.8469126	20	8 19.7	20.9
441322 2008 BK_{39}	17.0	X	311.25307	106.31182	325.09275	12.59764	0.2293072	0.22137126	2.7063786	20	11 8.7	19.7
441323 2008 BK_{50}	16.5	X	268.42284	199.58246	273.76151	13.19601	0.0517110	0.22488311	2.6781290	20	11 15.5	20.2
441324 2008 CR_{3}	16.6	X	312.83075	287.29460	137.48037	8.31345	0.2091906	0.21574896	2.7531946	20	11 11.1	19.3
441325 2008 CO_{8}	16.4	X	245.53128	338.78185	136.99709	11.50196	0.2580527	0.21186950	2.7867013	20	9 22.8	20.6
441326 2008 CE_{36}	16.4	X	302.79490	38.98238	312.79623	8.78036	0.0772075	0.19248846	2.9707510	20	7 20.5	20.1
441327 2008 CQ_{55}	16.9	X	248.33153	341.98645	132.54764	10.27629	0.2408054	0.21087595	2.7954475	20	9 26.7	21.1
441328 2008 CE_{61}	16.5	X	231.35308	61.38854	356.77717	10.28548	0.0604281	0.19084868	2.9877433	20	7 17.2	21.0
441329 2008 CJ_{61}	16.8	X	259.41372	89.18657	351.27210	14.47091	0.1246923	0.20398025	2.8580992	20	9 9.5	20.5
441330 2008 CL_{79}	17.0	X	246.80076	88.04568	346.69560	9.00708	0.1046912	0.20157920	2.8807500	20	8 20.6	21.0
441331 2008 CQ_{84}	16.9	X	336.98370	287.24812	154.38416	13.41957	0.2458000	0.22638972	2.6662339	20	—	—
441332 2008 CA_{110}	15.9	X	22.82909	246.48781	338.17353	14.80643	0.1928007	0.17513242	3.1639165	20	6 11.4	19.7
441333 2008 CB_{120}	16.6	X	152.36180	170.12493	317.15685	9.47971	0.0578936	0.19044815	2.9919308	20	7 13.1	21.0
441334 2008 CC_{120}	17.2	X	318.28651	89.15313	322.30730	12.62996	0.2517143	0.21719174	2.7409883	20	10 21.5	19.8
441335 2008 CG_{125}	16.2	X	9.43832	330.12113	309.97727	7.43433	0.0377460	0.19914783	2.9041497	20	7 25.2	19.9
441336 2008 CM_{130}	16.2	X	11.60117	313.52071	322.93643	7.84618	0.1053058	0.18837699	3.0138212	20	7 27.9	19.9
441337 2008 CZ_{132}	16.1	X	118.99933	296.08106	152.06496	11.04445	0.1363023	0.17509993	3.1643079	20	4 27.7	21.0
441338 2008 CD_{137}	16.7	X	352.03413	110.78034	157.68619	3.07064	0.1967282	0.18269363	3.0760056	20	6 10.1	19.7
441339 2008 CT_{138}	16.5	X	348.25189	128.33160	148.69585	12.68150	0.1159098	0.18142684	3.0903075	20	6 18.2	20.5
441340 2008 CG_{141}	16.0	X	8.50162	275.72369	331.48808	16.49895	0.0780354	0.17965910	3.1105456	20	6 9.0	20.3
441341 2008 CA_{150}	16.0	X	349.46495	311.46503	324.02633	10.33483	0.0499089	0.18305962	3.0719042	20	6 19.1	20.2
441342 2008 CD_{152}	15.8	X	20.43248	297.53675	327.28103	16.89764	0.2132878	0.18312562	3.0711661	20	8 9.1	19.1
441343 2008 CM_{155}	16.5	X	252.63296	351.90591	98.71635	7.29335	0.0280955	0.20363524	2.8613266	20	10 1.3	20.5
441344 2008 CD_{191}	17.8	X	235.42926	137.78418	139.51382	7.44691	0.2570746	0.31579548	2.1356600	20	1 3.6	21.4
441345 2008 CH_{192}	16.5	X	21.37792	36.20341	166.83003	15.02305	0.1918437	0.17124489	3.2116210	20	5 13.7	20.3
441346 2008 CS_{199}	16.8	X	232.53777	74.50437	347.19567	5.13130	0.0246632	0.18842935	3.0132629	20	7 26.1	21.1
441347 2008 CL_{206}	16.9	X	120.70736	337.36698	171.08328	9.71360	0.0862717	0.18494231	3.0510211	20	7 4.1	21.6
441348 2008 CO_{210}	16.2	X	92.67660	318.44125	161.93388	11.70167	0.1329608	0.17667846	3.1454321	20	5 6.9	20.8
441349 2008 CG_{212}	16.2	X	264.49468	74.78226	353.41897	10.00616	0.0538385	0.20101616	2.8861268	20	9 10.3	20.0
441350 2008 DL_{3}	16.5	X	41.52719	265.29635	328.37697	13.86487	0.0745114	0.18646798	3.0343560	20	7 15.1	20.6
441351 2008 DR_{4}	15.8	X	358.04458	254.70102	344.31239	24.77268	0.2560065	0.17381168	3.1799240	20	4 23.9	19.4
441352 2008 DS_{5}	16.5	X	297.31375	127.69127	303.62611	11.00127	0.0686674	0.21623694	2.7490509	20	10 25.4	20.2
441353 2008 DG_{14}	16.3	X	33.17797	119.15039	137.90869	12.15256	0.0929166	0.18875192	3.0098288	20	8 2.2	20.1
441354 2008 DL_{17}	16.6	X	94.70273	5.52045	160.42968	10.22338	0.0902436	0.18222779	3.0812456	20	6 26.9	21.2
441355 2008 DD_{34}	15.9	X	16.45123	63.84910	166.20020	27.57961	0.1606160	0.17759581	3.1345912	20	6 8.2	20.2
441356 2008 DF_{39}	16.3	X	9.58053	261.46114	357.16916	15.11197	0.2028162	0.17595584	3.1540380	20	7 7.5	20.0
441357 2008 DF_{52}	15.7	X	164.76682	305.59289	121.22736	11.51825	0.1156256	0.18091734	3.0961067	20	5 16.2	20.7
441358 2008 DC_{63}	16.6	X	301.25233	321.76367	130.85718	5.65697	0.0828424	0.21438849	2.7648298	20	12 3.2	20.0
441359 2008 DH_{72}	16.2	X	29.66973	260.42095	337.69958	10.08532	0.0503701	0.18415747	3.0596834	20	6 29.1	20.4
441360 2008 DV_{75}	16.7	X	27.07034	275.37668	0.85933	5.17904	0.1453618	0.18894145	3.0078157	20	8 27.2	20.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
441361 2008 DR_{77}	16.4	X	332.97593	134.84327	135.57824	11.65742	0.2015110	0.17485315	3.1672845	20	5 8.3	20.2
441362 2008 DC_{79}	16.5	X	37.67919	288.00014	336.07923	6.99916	0.0261586	0.18864319	3.0109852	20	8 11.1	20.5
441363 2008 DC_{81}	16.2	X	282.72101	262.21727	167.48747	15.07207	0.1327375	0.20439816	2.8542021	20	9 27.8	19.8
441364 2008 DY_{81}	16.1	X	17.16403	224.29827	9.88742	14.18541	0.2311637	0.17371925	3.1810519	20	6 16.7	19.7
441365 2008 DK_{86}	16.6	X	304.96860	196.34742	147.26661	7.67255	0.0930846	0.18893903	3.0078413	20	7 9.1	20.6
441366 2008 DN_{86}	16.3	X	53.22055	322.47625	266.52185	5.18249	0.1568735	0.18160389	3.0882987	20	8 2.1	20.4
441367 2008 EN_{5}	15.5	X	346.66468	109.43728	160.61017	24.05178	0.1380675	0.17768223	3.1335747	20	6 7.5	19.8
441368 2008 EB_{11}	16.7	X	14.15864	145.82694	94.34200	6.08181	0.1048794	0.17756065	3.1350050	20	6 11.0	20.4
441369 2008 EH_{11}	16.2	X	267.26782	12.10870	25.75207	10.03901	0.0732495	0.19180249	2.9778299	20	8 4.7	20.5
441370 2008 EP_{17}	16.7	X	172.41807	133.01506	327.44908	7.19358	0.1240388	0.18228491	3.0806018	20	7 1.3	21.6
441371 2008 EH_{21}	17.9	X	194.43155	307.85242	278.45479	1.63660	0.1562227	0.29238899	2.2481677	20	—	—
441372 2008 EJ_{25}	15.7	X	137.52826	159.85844	322.44535	9.31480	0.0512092	0.18157478	3.0886286	20	6 17.8	20.4
441373 2008 EW_{34}	16.0	X	47.62930	29.83265	190.52288	16.12096	0.1262187	0.17835991	3.1256323	20	7 7.9	20.4
441374 2008 EL_{43}	15.8	X	52.30605	45.54602	158.52961	27.93597	0.1410996	0.17769928	3.1333742	20	6 29.6	20.5
441375 2008 ET_{59}	16.5	X	26.78198	234.55435	352.74642	11.05574	0.0360330	0.17652050	3.1473083	20	6 6.5	21.0
441376 2008 EG_{62}	16.4	X	136.88261	310.41809	193.22587	11.15066	0.0453429	0.18756955	3.0224641	20	7 11.9	21.0
441377 2008 EU_{64}	16.7	X	325.40168	109.65715	188.72668	16.36335	0.0999721	0.17853024	3.1236440	20	6 9.8	21.0
441378 2008 EG_{78}	16.9	X	285.51510	327.12084	104.98428	3.22663	0.0585714	0.20102487	2.8860434	20	10 14.4	20.7
441379 2008 EJ_{92}	16.2	X	77.43028	178.14639	27.23124	14.56194	0.2717128	0.18374362	3.0642759	20	8 26.9	21.1
441380 2008 EE_{94}	15.9	X	327.19525	347.07741	18.64939	9.38802	0.0812651	0.19983630	2.8974757	20	9 17.7	19.5
441381 2008 EL_{97}	15.9	X	7.31166	322.75001	325.82132	14.79389	0.0586807	0.18891650	3.0080805	20	8 4.5	19.8
441382 2008 EE_{119}	15.6	X	54.92331	299.00228	307.82183	10.85833	0.1033418	0.19003043	2.9963137	20	8 19.8	19.6
441383 2008 EB_{158}	16.6	X	9.22840	240.56142	7.07656	12.92276	0.1520355	0.17780251	3.1321614	20	6 13.3	20.4
441384 2008 ES_{168}	18.2	X	202.00733	113.05078	166.56642	7.81900	0.2402637	0.30174950	2.2014306	20	—	—
441385 2008 FU	15.5	X	325.00381	318.42664	341.43231	15.76078	0.0795342	0.18146751	3.0898457	20	6 11.6	19.8
441386 2008 FD_{13}	16.8	X	42.06994	49.74450	183.47412	17.09248	0.2047532	0.17858303	3.1230283	20	7 27.5	21.0
441387 2008 FT_{17}	16.5	X	307.76586	233.85223	123.25221	3.09076	0.0227628	0.19110040	2.9851191	20	8 9.2	20.3
441388 2008 FD_{22}	16.5	X	36.10145	75.61056	135.00514	8.02984	0.0825122	0.17268395	3.1937536	20	6 5.4	20.7
441389 2008 FJ_{24}	16.0	X	201.49354	294.71219	174.61704	15.27287	0.0358490	0.18774023	3.0206320	20	8 13.2	20.5
441390 2008 FK_{24}	16.4	X	324.03960	188.22955	89.34925	6.93238	0.0955852	0.16937953	3.2351575	20	5 12.9	20.6
441391 2008 FD_{30}	16.5	X	309.46390	359.73749	337.18880	10.50340	0.0183208	0.18795753	3.0183034	20	7 18.4	20.8
441392 2008 FQ_{38}	18.3	X	198.37043	220.56334	75.10438	4.60513	0.1914981	0.30462724	2.1875445	20	—	—
441393 2008 FU_{44}	16.2	X	175.08817	106.95293	359.29577	14.52650	0.1048619	0.18777767	3.0202305	20	7 14.1	21.1
441394 2008 FR_{53}	16.7	X	24.79330	185.43801	38.30183	5.69680	0.1213571	0.17221540	3.1995438	20	6 6.8	20.7
441395 2008 FT_{55}	16.5	X	356.18999	246.25095	23.78638	4.60547	0.1309619	0.17395761	3.1781454	20	6 20.9	20.2
441396 2008 FT_{59}	17.2	X	39.62046	135.86898	60.64669	4.03815	0.1921742	0.17151356	3.2082663	20	6 4.3	20.9
441397 2008 FS_{85}	16.7	X	345.42636	92.77806	173.34428	11.51964	0.1854265	0.17344060	3.1844581	20	5 26.2	20.4
441398 2008 FX_{93}	16.3	X	202.84609	28.01156	56.26653	10.84969	0.0473474	0.18069515	3.0986443	20	7 16.3	21.0
441399 2008 FA_{102}	18.8	X	210.82909	98.39589	133.94288	4.79376	0.1861000	0.29440557	2.2378898	20	—	—
441400 2008 FQ_{102}	18.2	X	248.86114	107.05826	110.22647	4.93995	0.1086692	0.30059239	2.2070765	20	—	—
441401 2008 FT_{110}	18.2	X	186.02187	261.94894	14.87979	3.27861	0.1681170	0.29652275	2.2272247	20	—	—
441402 2008 FO_{112}	16.4	X	356.42875	84.09552	172.42826	9.22104	0.0186119	0.17424934	3.1745971	20	6 5.2	20.9
441403 2008 FG_{128}	18.6	X	294.65101	167.32956	37.37382	4.90536	0.0765711	0.30914834	2.1661645	20	—	—
441404 2008 FJ_{129}	16.4	X	58.04555	125.93746	98.12731	8.08126	0.0772139	0.17825444	3.1268651	20	7 23.2	20.6
441405 2008 FJ_{130}	16.5	X	272.22125	180.17819	204.79982	17.32404	0.0173064	0.18055327	3.1002673	20	7 24.3	21.2
441406 2008 FS_{136}	17.8	X	226.12670	223.58276	29.71384	7.08300	0.1425537	0.30289002	2.1959009	20	—	—
441407 2008 FV_{137}	15.8	X	20.43694	100.46818	135.28172	16.79491	0.1865436	0.17259769	3.1948176	20	6 23.8	19.6
441408 2008 GA	15.9	X	348.16075	115.65844	202.45051	25.49177	0.2382373	0.17798645	3.1300030	20	8 5.6	19.6
441409 2008 GY_{1}	15.7	X	103.68367	330.26618	211.17422	14.76328	0.2980645	0.18419867	3.0592271	20	8 12.4	21.1
441410 2008 GT_{11}	17.6	X	278.98464	338.24228	196.94443	3.80413	0.1262934	0.29853605	2.2171999	20	—	—
441411 2008 GP_{17}	18.6	X	269.31721	150.04137	80.66796	5.62788	0.0291566	0.31089730	2.1580330	20	—	—
441412 2008 GH_{24}	16.4	X	342.61707	97.09596	183.73733	18.29431	0.1403272	0.17403795	3.1771672	20	6 11.7	20.5
441413 2008 GH_{26}	16.7	X	125.70779	119.96670	41.59325	6.72836	0.1370431	0.18481264	3.0524479	20	8 2.4	21.5
441414 2008 GU_{36}	15.7	X	233.46803	136.48807	177.65101	10.07191	0.0771936	0.15385793	3.4492351	20	3 9.4	20.9
441415 2008 GQ_{38}	18.2	X	218.21635	133.88100	149.19817	3.02594	0.1928629	0.30273554	2.1966479	20	—	—
441416 2008 GK_{46}	18.4	X	185.93011	140.20153	84.75094	6.87275	0.1480875	0.28714749	2.2754434	20	12 28.9	21.4
441417 2008 GL_{47}	15.8	X	359.34091	199.39056	89.47765	11.94969	0.0780730	0.17402081	3.1773759	20	7 22.0	19.9
441418 2008 GG_{50}	16.2	X	329.12173	289.16367	20.82960	15.81471	0.0633088	0.17952792	3.1120606	20	7 5.4	20.6
441419 2008 GS_{50}	16.4	X	103.83874	143.74262	31.27136	6.17488	0.0264378	0.18105522	3.0945346	20	7 12.3	20.8
441420 2008 GZ_{54}	18.2	X	334.12053	303.81355	164.03859	3.98004	0.0556255	0.29962694	2.2118150	20	—	—
441421 2008 GL_{60}	18.5	X	187.14657	210.78991	93.81329	4.53979	0.0968665	0.30931778	2.1653734	20	—	—
441422 2008 GN_{62}	15.3	X	29.38452	240.74182	21.13248	16.92957	0.0922735	0.17992036	3.1075336	20	8 10.4	19.7
441423 2008 GV_{62}	15.6	X	331.88114	264.97289	37.23897	18.22099	0.0924795	0.17249835	3.1960441	20	6 23.5	20.0
441424 2008 GE_{84}	16.5	X	142.94373	37.17296	95.06975	6.23572	0.0886786	0.17847918	3.1242397	20	7 8.9	21.3
441425 2008 GD_{89}	18.6	X	224.07386	88.58101	164.17774	1.99685	0.1777487	0.30185356	2.2009247	20	—	—
441426 2008 GV_{96}	15.9	X	323.66878	281.77628	27.67735	11.37953	0.1297164	0.17816862	3.1278692	20	6 16.9	19.9
441427 2008 GT_{99}	16.1	X	340.96740	253.05643	49.02311	11.74867	0.0741277	0.17600337	3.1534701	20	7 11.5	20.3
441428 2008 GJ_{100}	18.1	X	208.35374	178.27965	66.84906	2.38543	0.1874134	0.29616917	2.2289970	20	—	—
441429 2008 GC_{127}	15.7	X	21.52009	130.48787	102.01723	13.72943	0.0641147	0.16936947	3.2352856	20	6 10.7	19.9
441430 2008 GT_{132}	16.2	X	31.84627	71.75131	174.46222	15.06327	0.0531088	0.17358948	3.1826371	20	7 9.9	20.8
441431 2008 GC_{138}	15.9	X	126.65860	89.96320	65.77674	16.82651	0.0729021	0.17575458	3.1564454	20	7 20.9	20.8
441432 2008 GG_{139}	16.3	X	19.13548	89.27443	166.65701	11.52850	0.0284541	0.17644976	3.1481494	20	7 3.7	20.8
441433 2008 HN	18.8	X	233.14343	27.69506	223.20716	2.39320	0.1581543	0.30437335	2.1887608	20	—	—
441434 2008 HE_{4}	16.1	X	99.24570	110.63568	70.71206	17.70847	0.1801903	0.18162991	3.0880037	20	8 5.9	21.1
441435 2008 HE_{8}	16.8	X	61.50053	64.35304	124.32807	9.98492	0.0715655	0.17159943	3.2071959	20	6 11.5	21.2
441436 2008 HG_{9}	16.2	X	69.49559	87.07593	120.01655	10.68088	0.1732590	0.17694532	3.1422688	20	7 30.4	20.4
441437 2008 HM_{15}	15.5	X	300.05879	278.57517	76.10712	17.09403	0.1231656	0.17481511	3.1677440	20	7 12.3	19.7
441438 2008 HP_{17}	18.1	X	238.35635	145.90977	106.99571	6.85927	0.1275195	0.30450929	2.1881093	20	—	—
441439 2008 HL_{21}	16.5	X	92.26020	22.83515	185.24475	8.97428	0.0241326	0.18273895	3.0754969	20	8 5.8	21.0
441440 2008 HU_{21}	15.9	X	18.03765	61.10117	225.54964	11.63482	0.1666292	0.17678969	3.1441127	20	8 20.4	19.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
441441 2008 HG_{24}	16.1	X	12.79494	181.58009	141.32334	10.50625	0.0982336	0.18695558	3.0290778	20	10 1.9	20.0
441442 2008 HW_{43}	18.3	X	201.23360	237.85591	71.76451	2.83681	0.1303989	0.30817549	2.1707209	20	1 14.4	21.3
441443 2008 HH_{46}	18.1	X	187.99024	226.02724	67.27500	6.32643	0.2430517	0.29701615	2.2247574	20	—	—
441444 2008 HX_{48}	16.3	X	349.63649	230.44366	41.20826	11.74164	0.1099468	0.17461525	3.1701606	20	6 10.5	20.2
441445 2008 HY_{54}	18.3	X	288.35288	80.97862	97.13179	4.08548	0.1834353	0.30157565	2.2022766	20	—	—
441446 2008 HS_{57}	16.3	X	84.70983	84.23524	119.70371	11.73914	0.0527147	0.17823786	3.1270590	20	7 28.0	20.7
441447 2008 HM_{67}	18.3	X	326.68998	92.34932	72.25238	5.23726	0.0661113	0.30562800	2.1827665	20	—	—
441448 2008 HF_{68}	17.4	X	160.82893	249.59530	73.15529	6.04860	0.1875351	0.29602670	2.2297121	20	—	—
441449 2008 JJ_{9}	15.6	X	284.81199	245.08320	102.65506	13.29402	0.0697369	0.17273891	3.1930761	20	6 19.7	20.1
441450 2008 KY_{4}	18.6	X	195.50328	117.84855	145.82600	6.46251	0.1163792	0.29426712	2.2385917	20	—	—
441451 2008 KK_{9}	18.4	X	116.25140	210.15407	112.65845	2.39482	0.2278926	0.28589464	2.2820862	20	—	—
441452 2008 KV_{33}	16.1	X	350.89403	144.53969	193.93761	16.31020	0.2408609	0.17711838	3.1402216	20	9 16.6	19.3
441453 2008 MO_{3}	18.5	X	109.38233	92.23859	263.74306	2.49274	0.2361028	0.28190054	2.3035914	20	—	—
441454 2008 OS_{2}	17.9	X	139.75535	56.66645	296.36271	4.23834	0.2226212	0.28871039	2.2672241	20	1 18.2	21.0
441455 2008 OO_{3}	17.0	X	96.56386	50.33975	308.44501	24.20424	0.2754279	0.27723724	2.3293514	20	—	—
441456 2008 OT_{3}	18.1	X	149.05855	129.81903	171.33480	6.62901	0.2393766	0.28220976	2.3019084	20	—	—
441457 2008 OE_{22}	18.2	X	127.45814	345.66476	335.03317	6.89396	0.1369514	0.27823813	2.3237619	20	—	—
441458 2008 PN_{2}	17.7	X	138.67675	57.21844	287.07404	5.57752	0.2128465	0.28724331	2.2749373	20	1 4.9	20.6
441459 2008 PF_{11}	18.0	X	140.34797	212.47545	117.30343	2.24321	0.2187173	0.28485902	2.2876139	20	—	—
441460 2008 PN_{14}	17.7	X	79.22724	174.42031	155.27415	3.33173	0.1885141	0.26908680	2.3761533	20	—	—
441461 2008 PA_{19}	18.0	X	129.86639	144.74110	212.07714	1.29236	0.2232096	0.28460336	2.2889837	20	1 12.6	20.8
441462 2008 PD_{22}	18.8	X	70.31408	230.79669	142.85346	1.79194	0.1874753	0.27348985	2.3505811	20	—	—
441463 2008 QQ_{5}	17.9	X	125.95729	151.33253	153.66266	2.35708	0.2019721	0.27316351	2.3524528	20	—	—
441464 2008 QE_{21}	17.5	X	99.72939	115.30847	238.52174	6.20457	0.1583303	0.27765369	2.3270216	20	—	—
441465 2008 QU_{23}	18.2	X	97.88034	1.03396	333.17032	0.79282	0.2016926	0.27363616	2.3497431	20	—	—
441466 2008 QD_{34}	17.6	X	17.90011	197.13396	172.54701	2.63931	0.1881036	0.25855096	2.4402741	20	—	—
441467 2008 QE_{36}	18.1	X	137.75494	174.27363	160.67116	3.43248	0.1946216	0.28228253	2.3015127	20	—	—
441468 2008 RS_{1}	18.1	X	117.63941	146.99438	164.77959	2.44323	0.1837299	0.27264753	2.3554199	20	—	—
441469 2008 RL_{58}	18.4	X	89.30994	54.48047	321.74538	3.90528	0.2363503	0.27529693	2.3402835	20	—	—
441470 2008 RC_{70}	18.4	X	119.06224	32.77661	317.62835	2.95075	0.1713815	0.28036713	2.3119831	20	—	—
441471 2008 RS_{73}	17.2	X	90.18867	81.27025	345.37990	22.53014	0.2310455	0.28585942	2.2822736	20	2 27.9	19.6
441472 2008 RV_{86}	17.4	X	135.26338	54.90217	263.72878	5.10597	0.1296644	0.27581492	2.3373525	20	—	—
441473 2008 RJ_{94}	18.1	X	74.29495	195.82062	183.25478	2.48376	0.2084108	0.26919241	2.3755318	20	—	—
441474 2008 RD_{106}	17.6	X	139.72286	323.79700	355.72027	6.62734	0.2051457	0.27745242	2.3281469	20	—	—
441475 2008 RY_{114}	17.8	X	142.56510	200.87415	130.36464	0.47457	0.2251236	0.27830595	2.3233843	20	—	—
441476 2008 RK_{118}	17.0	X	169.45464	237.43554	4.72261	7.14570	0.0820873	0.26230069	2.4169617	20	—	—
441477 2008 RQ_{119}	18.4	X	117.21767	313.17056	21.67136	1.58494	0.2028251	0.27574701	2.3377362	20	—	—
441478 2008 RP_{128}	17.1	X	227.94970	211.41590	316.80397	5.64846	0.0933984	0.26542470	2.3979594	20	12 7.6	20.1
441479 2008 RD_{129}	16.8	X	118.56473	42.64382	260.12391	6.05494	0.1483727	0.25744560	2.4472541	20	—	—
441480 2008 RQ_{131}	17.7	X	78.78957	182.90688	224.44034	4.89236	0.1462440	0.28035612	2.3120436	20	—	—
441481 2008 RB_{142}	18.2	X	102.32168	37.11816	298.19199	3.92202	0.1696403	0.27268247	2.3552187	20	—	—
441482 2008 SJ_{6}	17.6	X	111.56364	184.99148	127.33217	3.29407	0.1777153	0.27043849	2.3682291	20	—	—
441483 2008 SB_{15}	17.9	X	68.52800	214.87523	179.50025	5.55396	0.2164519	0.27696004	2.3309053	20	—	—
441484 2008 SG_{26}	18.0	X	128.22973	190.48117	134.03174	2.64766	0.2110147	0.27707864	2.3302402	20	—	—
441485 2008 SL_{32}	17.6	X	150.17309	337.78509	305.81226	4.95019	0.2162236	0.27408145	2.3471975	20	—	—
441486 2008 SS_{46}	18.0	X	113.65249	286.48532	29.77240	4.37591	0.2203271	0.27023432	2.3694218	20	—	—
441487 2008 SX_{49}	18.4	X	107.94567	132.85362	217.31908	0.73429	0.1583407	0.27607758	2.3358698	20	—	—
441488 2008 SA_{58}	17.5	X	149.80994	274.54125	36.09484	4.92149	0.1967524	0.27628922	2.3346767	20	—	—
441489 2008 ST_{58}	17.8	X	132.83147	218.82655	116.24498	1.82573	0.2351679	0.27796043	2.3253093	20	—	—
441490 2008 SB_{63}	17.6	X	73.39984	354.32736	333.85694	2.26598	0.2241586	0.26478874	2.4017974	20	—	—
441491 2008 SL_{71}	17.4	X	356.17395	35.50501	27.27183	6.53981	0.1004111	0.26120601	2.4237097	20	—	—
441492 2008 SQ_{71}	17.6	X	146.42965	218.28833	62.71739	2.94729	0.2103189	0.27001348	2.3707136	20	—	—
441493 2008 SN_{72}	18.2	X	103.87563	140.89452	233.44219	3.14627	0.1800920	0.27647290	2.3336426	20	—	—
441494 2008 SE_{77}	18.2	X	87.37511	32.12605	331.31741	2.30562	0.2032431	0.27347914	2.3506425	20	—	—
441495 2008 SF_{81}	18.1	X	85.54323	251.85380	131.91701	4.71541	0.2491302	0.27427406	2.3460984	20	—	—
441496 2008 SF_{89}	18.2	X	138.62740	4.68956	301.09447	1.80618	0.2163355	0.27916660	2.3186066	20	—	—
441497 2008 SA_{90}	17.1	X	98.75641	151.75111	207.46929	7.25804	0.2084384	0.27452632	2.3446610	20	—	—
441498 2008 SN_{97}	17.9	X	81.85055	119.93692	222.66024	3.46112	0.1746686	0.26686523	2.3893222	20	—	—
441499 2008 SQ_{97}	17.9	X	49.73979	47.84984	0.52457	6.01399	0.0558984	0.27132271	2.3630811	20	—	—
441500 2008 SR_{98}	18.0	X	102.13440	243.30819	99.27659	3.00389	0.2297525	0.27187800	2.3598623	20	—	—
441501 2008 SY_{99}	17.9	X	56.92151	243.06552	131.05746	3.24919	0.2073199	0.26607229	2.3940669	20	—	—
441502 2008 SV_{111}	18.2	X	135.19602	156.24439	131.42312	2.26709	0.1791054	0.27281560	2.3544524	20	—	—
441503 2008 SH_{117}	17.7	X	107.51354	18.47003	336.85852	1.11848	0.2052246	0.27502353	2.3418342	20	—	—
441504 2008 SS_{125}	18.2	X	41.17078	158.86526	278.05802	0.71769	0.1585175	0.27254988	2.3559825	20	—	—
441505 2008 SG_{126}	17.5	X	77.14917	4.78730	8.25473	2.90883	0.1834516	0.27046712	2.3680620	20	—	—
441506 2008 SW_{126}	17.6	X	66.92930	182.33015	220.20678	2.90430	0.1511837	0.27314229	2.3525747	20	—	—
441507 2008 SG_{129}	17.9	X	98.10003	4.00953	0.54581	4.52117	0.0400569	0.27150062	2.3620486	20	—	—
441508 2008 SL_{131}	18.4	X	41.43055	49.02918	357.63839	3.57594	0.1824556	0.26679215	2.3897585	20	—	—
441509 2008 SO_{136}	15.3	X	132.25122	92.74300	333.29946	7.70114	0.1460830	0.12466094	3.9687077	20	4 11.3	21.4
441510 2008 SY_{139}	18.1	X	76.98921	69.97732	299.47873	2.65420	0.2314030	0.27199463	2.3591877	20	—	—
441511 2008 SZ_{139}	17.3	X	127.56316	339.85714	325.07179	4.30278	0.2253236	0.27393207	2.3480507	20	—	—
441512 2008 SZ_{141}	17.9	X	130.54325	193.54082	127.05114	2.06691	0.1989643	0.27296499	2.3535933	20	—	—
441513 2008 SH_{146}	17.9	X	88.73270	109.80827	283.58857	4.47325	0.1464760	0.27878071	2.3207458	20	—	—
441514 2008 SP_{149}	18.0	X	96.66201	78.42213	284.13121	3.73709	0.1946715	0.27592488	2.3367315	20	—	—
441515 2008 SJ_{152}	18.2	X	108.74522	85.37920	268.01907	3.26251	0.2337349	0.27590702	2.3368323	20	—	—
441516 2008 SR_{159}	18.0	X	130.46886	130.32645	186.33187	5.98865	0.2673157	0.27667901	2.3324835	20	—	—
441517 2008 SB_{160}	18.3	X	112.71926	50.22017	295.48427	0.43428	0.2017279	0.27574717	2.3377353	20	—	—
441518 2008 SM_{164}	17.5	X	89.81766	221.94409	129.17624	2.12862	0.2022555	0.27127933	2.3633329	20	—	—
441519 2008 SC_{168}	17.3	X	125.21498	115.41434	199.76405	21.71331	0.2801125	0.27293125	2.3537872	20	—	—
441520 2008 SE_{175}	18.2	X	14.60781	131.16042	285.45468	3.58142	0.1868658	0.26504310	2.4002605	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
441521 2008 SF_{181}	18.6	X	131.42772	126.20609	180.08402	2.48994	0.2227765	0.27203589	2.3589491	20	—	—
441522 2008 SX_{181}	18.0	X	73.72572	196.73107	141.78560	2.08262	0.1516951	0.26200100	2.4188044	20	—	—
441523 2008 SC_{183}	17.8	X	48.92054	182.36050	180.29635	4.34266	0.0917150	0.25944844	2.4346433	20	—	—
441524 2008 SP_{185}	16.6	X	118.27091	194.51685	148.11269	27.27544	0.2125694	0.27631183	2.3345494	20	—	—
441525 2008 SK_{220}	15.3	X	181.70083	195.75615	205.91115	8.21934	0.2418176	0.13157723	3.8283846	20	4 30.9	21.8
441526 2008 SQ_{221}	18.3	X	74.61163	45.73682	345.21151	2.27460	0.1837996	0.27567284	2.3381555	20	—	—
441527 2008 SV_{242}	18.3	X	53.25442	194.07368	141.13724	1.88418	0.2014635	0.25795186	2.4440510	20	—	—
441528 2008 SC_{243}	17.7	X	91.59655	201.81401	168.39902	2.05674	0.2243870	0.27281903	2.3544327	20	—	—
441529 2008 SQ_{256}	18.3	X	75.01683	32.37082	290.65164	1.67709	0.2158780	0.26418293	2.4054678	20	—	—
441530 2008 SD_{258}	17.5	X	148.55218	58.12830	234.78585	3.70581	0.1497371	0.27017080	2.3697932	20	—	—
441531 2008 SH_{282}	18.1	X	110.21681	272.16366	61.43319	9.17865	0.3209855	0.27008295	2.3703070	20	—	—
441532 2008 SU_{283}	17.4	X	101.58272	93.61836	225.84856	7.23650	0.1275563	0.26641671	2.3920031	20	—	—
441533 2008 SV_{283}	16.7	X	129.39433	239.10574	288.82626	4.17701	0.1471345	0.22995195	2.6386269	20	8 14.4	20.8
441534 2008 SP_{286}	18.5	X	119.64322	56.12515	253.05580	2.12227	0.2143204	0.26892425	2.3771107	20	—	—
441535 2008 SA_{300}	17.7	X	123.89493	101.61510	203.96078	9.74304	0.2714823	0.27185428	2.3599996	20	—	—
441536 2008 SG_{307}	17.8	X	18.33558	281.95242	68.57416	5.32635	0.2176931	0.25312055	2.4750527	20	12 15.8	20.8
441537 2008 SX_{307}	17.8	X	105.47885	239.76789	65.70710	2.18158	0.1864465	0.26372812	2.4082326	20	—	—
441538 2008 SA_{308}	17.7	X	95.54202	173.96697	163.90874	3.06416	0.2173008	0.26806706	2.3821755	20	—	—
441539 2008 SP_{309}	17.9	X	11.33849	356.04326	48.00103	2.31969	0.1837686	0.25740282	2.4475252	20	—	—
441540 2008 TF_{5}	17.7	X	119.77179	280.19185	25.74065	2.62198	0.2205438	0.27088382	2.3656328	20	—	—
441541 2008 TJ_{9}	18.3	X	66.69436	355.12298	30.33792	2.77838	0.2142223	0.27020719	2.3695804	20	—	—
441542 2008 TP_{17}	18.7	X	61.75206	33.32409	10.76600	2.84938	0.1802676	0.27037984	2.3685715	20	—	—
441543 2008 TC_{20}	17.8	X	25.02280	175.90482	213.27421	6.40622	0.1373304	0.25915037	2.4365098	20	—	—
441544 2008 TK_{22}	17.5	X	114.33062	286.11569	49.76132	7.75751	0.1331685	0.27040470	2.3684264	20	—	—
441545 2008 TV_{35}	18.3	X	35.37415	35.96097	355.88900	3.22984	0.1306781	0.26586047	2.3953384	20	—	—
441546 2008 TH_{43}	17.8	X	93.94432	39.13642	337.77563	9.77925	0.2391478	0.27557385	2.3387154	20	—	—
441547 2008 TY_{47}	17.3	X	91.20238	185.65204	178.35970	7.09599	0.1627052	0.27072415	2.3665629	20	—	—
441548 2008 TD_{67}	15.1	X	171.36726	346.03607	55.50809	5.97339	0.2715779	0.12657166	3.9286657	20	4 24.6	21.7
441549 2008 TM_{68}	17.5	X	127.26400	202.75595	126.80883	1.95924	0.1894606	0.27393718	2.3480215	20	—	—
441550 2008 TT_{69}	15.4	X	135.54758	300.35142	131.08224	3.53955	0.1105166	0.12425113	3.9774294	20	4 22.1	21.3
441551 2008 TC_{77}	17.9	X	64.20437	204.26940	170.19449	2.04871	0.1373822	0.26906795	2.3762643	20	—	—
441552 2008 TR_{83}	18.2	X	44.23497	49.58585	333.36311	2.81782	0.1346829	0.26535873	2.3983568	20	—	—
441553 2008 TC_{91}	17.6	X	87.79039	298.36341	50.31111	7.30540	0.1361143	0.26650274	2.3914883	20	—	—
441554 2008 TS_{120}	18.0	X	88.14714	268.09283	105.27601	4.22777	0.2297482	0.27413900	2.3468689	20	—	—
441555 2008 TP_{125}	17.3	X	120.50208	348.90647	354.62113	6.46346	0.1150164	0.27568791	2.3380703	20	—	—
441556 2008 TD_{136}	18.1	X	20.29754	198.00592	235.75093	2.23703	0.1679069	0.26663257	2.3907119	20	—	—
441557 2008 TO_{138}	16.7	X	136.35889	4.54046	231.44703	8.36258	0.0948771	0.25175478	2.4839960	20	11 17.7	20.2
441558 2008 TW_{157}	17.2	X	91.34627	60.48434	257.05020	13.68242	0.2357891	0.26687754	2.3892487	20	—	—
441559 2008 TF_{167}	17.6	X	111.71190	20.52682	282.48101	4.04112	0.1777771	0.26537824	2.3982393	20	—	—
441560 2008 TP_{176}	18.4	X	12.14137	23.86124	28.19407	0.79967	0.1984300	0.26172517	2.4205035	20	—	—
441561 2008 TM_{177}	17.7	X	46.21284	246.23371	153.82752	12.21366	0.2476371	0.26655665	2.3911658	20	—	—
441562 2008 TD_{188}	17.3	X	284.94051	217.19234	213.00980	14.37954	0.0836447	0.24526115	2.5276497	20	10 13.9	20.3
441563 2008 UK	15.1	X	170.88740	236.99263	154.79697	2.78500	0.2314181	0.12347879	3.9939977	20	4 12.6	21.6
441564 2008 UN_{7}	15.7	X	159.50637	188.88802	237.36877	6.31414	0.3331905	0.12516239	3.9581004	20	5 14.8	22.5
441565 2008 UJ_{23}	18.2	X	122.51446	106.23126	199.00151	1.68071	0.2142232	0.27124275	2.3635455	20	—	—
441566 2008 UR_{24}	18.3	X	9.09043	299.62915	147.28419	1.28440	0.1528277	0.26619004	2.3933608	20	—	—
441567 2008 UJ_{30}	17.2	X	84.77964	319.07304	51.17874	7.99018	0.1205741	0.26900557	2.3766316	20	—	—
441568 2008 UT_{31}	17.5	X	122.84397	211.79907	82.36002	3.57188	0.1986740	0.26407388	2.4061300	20	—	—
441569 2008 UJ_{33}	17.2	X	326.66747	38.27418	61.23249	7.78183	0.0700658	0.25918503	2.4362926	20	—	—
441570 2008 UJ_{36}	17.4	X	82.07125	321.82479	28.95714	6.75981	0.1333226	0.26437092	2.4043273	20	—	—
441571 2008 UX_{41}	17.7	X	63.36557	302.61611	39.97822	5.61542	0.1258377	0.25763546	2.4460516	20	—	—
441572 2008 UJ_{42}	18.4	X	78.41916	300.74053	42.31903	3.02696	0.1971107	0.26274312	2.4142476	20	—	—
441573 2008 UP_{43}	18.0	X	120.12541	130.52950	218.82788	1.73385	0.2282712	0.27758459	2.3274078	20	—	—
441574 2008 UG_{46}	18.4	X	20.88196	106.97224	321.12335	2.41910	0.1655910	0.26284698	2.4136116	20	—	—
441575 2008 UD_{48}	18.0	X	144.77757	49.85768	231.82454	1.72682	0.1467462	0.26757415	2.3851001	20	—	—
441576 2008 UH_{54}	17.9	X	88.55289	145.03286	219.93248	3.59692	0.1228446	0.26633717	2.3924793	20	—	—
441577 2008 UU_{57}	17.7	X	131.70769	218.33062	120.67773	2.73111	0.2196665	0.27666487	2.3325629	20	—	—
441578 2008 UN_{65}	16.8	X	261.09276	181.77837	242.72798	12.35020	0.1407194	0.23466868	2.6031506	20	8 15.6	20.6
441579 2008 UB_{74}	17.8	X	60.32461	143.85610	267.13450	4.62331	0.2186209	0.26964004	2.3729020	20	—	—
441580 2008 UH_{80}	17.7	X	101.88511	144.08590	262.05883	7.16302	0.1031681	0.27992077	2.3144402	20	1 22.7	20.3
441581 2008 UU_{83}	16.4	X	319.69807	166.18317	227.67214	11.64078	0.1720380	0.24135183	2.5548711	20	10 15.3	18.9
441582 2008 UW_{94}	17.8	X	62.38272	359.47735	57.48821	5.86099	0.1147244	0.27604041	2.3360795	20	—	—
441583 2008 UM_{96}	17.5	X	21.54440	0.43734	79.33239	7.72769	0.0959413	0.26934237	2.3746499	20	—	—
441584 2008 US_{97}	16.8	X	345.10307	2.48996	65.05770	7.67330	0.1084115	0.25701646	2.4499775	20	—	—
441585 2008 UO_{98}	16.6	X	284.67906	246.01406	167.64354	5.13346	0.3175874	0.23768548	2.5810769	20	8 10.9	19.5
441586 2008 UW_{98}	16.8	X	64.12448	307.01182	72.50233	9.33556	0.2398596	0.26572039	2.3961801	20	—	—
441587 2008 UL_{113}	17.6	X	130.04584	6.99000	293.29390	2.32521	0.1447841	0.26615920	2.3935457	20	—	—
441588 2008 UA_{114}	17.9	X	108.81457	327.14812	359.21639	2.76661	0.1891824	0.26796542	2.3827778	20	—	—
441589 2008 UT_{114}	17.9	X	121.91704	336.54157	335.23186	5.19550	0.1770007	0.26707593	2.3880654	20	—	—
441590 2008 UK_{119}	17.7	X	105.28192	344.77117	357.95657	3.94845	0.2468023	0.27076114	2.3663473	20	—	—
441591 2008 UT_{122}	18.1	X	34.42808	61.38302	319.72600	4.74691	0.1346540	0.25849361	2.4406350	20	—	—
441592 2008 UC_{128}	16.8	X	6.08541	251.92707	64.74383	16.66488	0.0451282	0.23316764	2.6143107	20	9 23.2	20.5
441593 2008 UA_{157}	17.4	X	313.60288	299.20382	82.24941	0.96263	0.1033131	0.23846910	2.5754195	20	9 20.6	20.0
441594 2008 UA_{167}	17.1	X	292.87859	210.36530	216.97443	15.83082	0.1208743	0.24383757	2.5374781	20	10 18.3	19.7
441595 2008 UH_{176}	17.8	X	118.36297	304.96997	4.03723	2.46761	0.1901517	0.26750318	2.3855219	20	—	—
441596 2008 UL_{178}	17.3	X	152.03608	12.99921	241.46053	5.92891	0.0880466	0.25938700	2.4350277	20	12 28.4	20.7
441597 2008 UC_{180}	15.7	X	178.60334	121.89215	280.05324	2.83048	0.2153818	0.12576318	3.9454849	20	4 27.5	22.2
441598 2008 UJ_{186}	17.4	X	129.14169	288.76574	60.78973	5.62761	0.2533612	0.27591947	2.3367620	20	1 8.6	20.6
441599 2008 UW_{195}	18.2	X	103.25701	312.58328	59.62713	3.78482	0.1925837	0.27247552	2.3564111	20	—	—
441600 2008 UC_{201}	17.7	X	149.15455	57.39350	276.83531	4.88270	0.2835276	0.28162910	2.3050713	20	1 10.9	21.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
441601 2008 UC_{208}	17.5	X	99.59859	284.41639	25.46458	6.57122	0.1423093	0.26130123	2.4231209	20	—	—
441602 2008 UK_{213}	17.7	X	58.17731	79.15379	289.77671	3.65476	0.2008667	0.26595813	2.3947520	20	—	—
441603 2008 UD_{219}	17.6	X	75.91908	13.74350	359.32365	1.96646	0.2222262	0.26885627	2.3775114	20	—	—
441604 2008 UR_{232}	17.7	X	108.20552	338.41905	5.72402	2.09205	0.2419614	0.27275351	2.3548097	20	—	—
441605 2008 UT_{234}	17.5	X	117.70850	85.79916	235.91357	6.64444	0.0289353	0.26808392	2.3820756	20	—	—
441606 2008 UV_{237}	17.3	X	43.93772	194.20488	255.66027	6.09728	0.0732789	0.27492882	2.3423720	20	—	—
441607 2008 UR_{239}	15.5	X	167.90219	117.12311	295.68805	7.73257	0.2306183	0.12530327	3.9551332	20	4 30.4	22.2
441608 2008 UQ_{271}	18.2	X	58.44497	41.97851	336.53235	1.72918	0.2127777	0.26503301	2.4003215	20	—	—
441609 2008 UF_{272}	17.2	X	150.42347	237.37883	33.25998	6.39768	0.1044529	0.26011509	2.4304817	20	—	—
441610 2008 UZ_{290}	18.0	X	85.96513	235.11279	172.15394	2.88499	0.2490561	0.27449367	2.3448469	20	1 25.4	20.1
441611 2008 UX_{292}	17.1	X	307.02909	228.37087	251.98237	5.80633	0.0682049	0.25936879	2.4351417	20	—	—
441612 2008 UL_{300}	17.6	X	48.27269	74.52602	301.51469	5.67698	0.1381972	0.26588064	2.3952172	20	—	—
441613 2008 UO_{300}	17.7	X	107.88017	208.53095	129.30503	6.01444	0.2531561	0.27269014	2.3551745	20	—	—
441614 2008 UF_{309}	17.5	X	5.40989	164.02171	296.00718	5.46596	0.0937500	0.26771609	2.3842570	20	—	—
441615 2008 US_{315}	18.2	X	65.89852	174.82796	230.13216	1.98759	0.1938262	0.26908812	2.3761455	20	—	—
441616 2008 UU_{315}	18.2	X	65.03950	272.62839	76.76842	2.38461	0.2008894	0.25894736	2.4377831	20	—	—
441617 2008 UB_{316}	18.3	X	52.83484	320.94827	63.36591	2.88682	0.2393570	0.26304438	2.4124040	20	—	—
441618 2008 UN_{320}	17.6	X	62.41050	52.65414	333.06915	5.46767	0.2676333	0.26780302	2.3837410	20	—	—
441619 2008 US_{342}	18.0	X	22.67275	38.36983	23.68237	4.93757	0.0930308	0.26094462	2.4253280	20	—	—
441620 2008 UQ_{345}	16.8	X	267.88288	0.25540	99.48399	15.02460	0.2019817	0.23446632	2.6046482	20	10 17.6	20.3
441621 2008 US_{365}	17.9	X	31.57800	271.84961	163.16740	5.66976	0.1973103	0.26912854	2.3759076	20	—	—
441622 2008 UP_{366}	17.7	X	127.83658	283.14185	65.74651	3.55012	0.2911532	0.27635514	2.3343055	20	1 11.0	21.0
441623 2008 US_{369}	17.7	X	92.57779	13.74063	291.74763	4.98162	0.1775388	0.25398634	2.4694248	20	—	—
441624 2008 VH_{1}	15.6	X	309.20652	125.60613	264.79439	27.18494	0.2354184	0.23589369	2.5941306	20	8 21.4	18.9
441625 2008 VP_{1}	17.5	X	19.41480	167.14244	248.49668	9.73962	0.2438446	0.26168928	2.4207248	20	—	—
441626 2008 VG_{5}	17.8	X	112.07429	85.97003	253.69138	9.33117	0.2595665	0.27211915	2.3584679	20	—	—
441627 2008 VD_{18}	17.5	X	77.66392	332.88104	61.24567	6.09061	0.2063519	0.27266195	2.3553368	20	—	—
441628 2008 VN_{18}	17.7	X	17.65942	9.44514	63.51140	6.08219	0.2087249	0.26439968	2.4041530	20	—	—
441629 2008 VJ_{33}	17.8	X	11.64785	302.53989	113.37536	3.66826	0.0792456	0.25958702	2.4337767	20	—	—
441630 2008 VA_{40}	18.1	X	86.50589	5.49464	334.15993	1.97717	0.2115302	0.26734086	2.3864875	20	—	—
441631 2008 VE_{51}	18.0	X	84.67084	335.81719	43.19071	3.37341	0.2056718	0.26944641	2.3740387	20	—	—
441632 2008 VS_{58}	17.6	X	108.44898	266.06788	42.33581	3.59083	0.2059726	0.26602862	2.3943289	20	—	—
441633 2008 VB_{68}	17.5	X	49.05671	310.24221	117.08970	23.56282	0.2643855	0.27054169	2.3676268	20	—	—
441634 2008 VT_{71}	16.9	X	322.36765	302.24066	80.62965	5.20918	0.2007862	0.23581481	2.5947090	20	10 7.1	19.1
441635 2008 VW_{72}	17.7	X	50.71801	335.92859	80.88682	5.37983	0.1651182	0.26847268	2.3797755	20	—	—
441636 2008 VY_{74}	17.7	X	2.95587	123.43335	314.78768	5.99970	0.1656867	0.26291018	2.4132248	20	—	—
441637 2008 VZ_{76}	17.7	X	16.90691	324.42155	107.37272	4.93448	0.1557552	0.26295440	2.4129543	20	—	—
441638 2008 VA_{78}	18.3	X	63.33840	293.99451	96.37392	3.94499	0.2346330	0.26622775	2.3931349	20	—	—
441639 2008 VC_{78}	18.0	X	43.77047	298.35218	98.66556	3.36479	0.1884697	0.26292348	2.4131434	20	—	—
441640 2008 WG_{13}	17.0	X	42.94802	295.77586	83.27685	12.97198	0.2399507	0.25953102	2.4341268	20	—	—
441641 2008 WZ_{13}	18.6	X	326.77671	133.65044	51.94932	8.17833	0.5605442	0.34917259	1.9972969	20	—	—
441642 2008 WF_{24}	17.9	X	58.73343	356.88381	21.30945	1.37750	0.1958258	0.26390816	2.4071372	20	—	—
441643 2008 WQ_{24}	18.0	X	63.12692	350.91628	46.87449	3.23415	0.2051111	0.26849764	2.3796280	20	—	—
441644 2008 WL_{27}	17.5	X	114.38357	71.97042	244.76459	6.73545	0.1017945	0.26309550	2.4120914	20	—	—
441645 2008 WZ_{28}	17.8	X	123.87158	145.14934	161.83556	2.21504	0.2242855	0.26619640	2.3933227	20	—	—
441646 2008 WO_{31}	17.0	X	26.68429	14.69755	308.27120	1.67805	0.1456465	0.24076317	2.5590337	20	11 5.8	20.2
441647 2008 WQ_{43}	18.0	X	43.13020	16.37999	35.63729	1.59274	0.1723089	0.26467153	2.4025065	20	—	—
441648 2008 WM_{44}	17.3	X	136.00462	199.89142	62.15273	7.59879	0.0753707	0.25086033	2.4898970	20	12 19.4	20.8
441649 2008 WY_{45}	17.9	X	12.15649	349.00577	55.32706	5.75009	0.1610172	0.25574750	2.4580749	20	—	—
441650 2008 WC_{66}	17.7	X	127.32332	175.78032	176.69411	2.14943	0.2374532	0.27739952	2.3284428	20	1 7.1	20.7
441651 2008 WZ_{68}	18.3	X	38.31950	222.90370	156.58250	2.03221	0.1930051	0.25775289	2.4453087	20	—	—
441652 2008 WB_{72}	18.1	X	115.70938	351.31229	12.18649	4.46926	0.2214182	0.27473770	2.3434582	20	1 6.4	20.9
441653 2008 WZ_{73}	17.6	X	64.23613	312.35851	81.42456	5.14654	0.2303742	0.26396011	2.4068213	20	—	—
441654 2008 WQ_{74}	17.9	X	53.50464	9.45995	37.19091	2.99431	0.1780165	0.26920818	2.3754390	20	—	—
441655 2008 WD_{80}	17.4	X	266.02759	22.08410	100.48961	7.24468	0.1540064	0.24458607	2.5322985	20	11 18.7	20.3
441656 2008 WZ_{87}	17.8	X	106.91493	214.67838	88.48838	2.89361	0.1895759	0.26080550	2.4261904	20	—	—
441657 2008 WH_{90}	18.0	X	1.15460	13.48040	59.03685	4.03028	0.2100213	0.25474143	2.4645426	20	—	—
441658 2008 WQ_{91}	16.5	X	278.00357	314.47751	116.49500	22.83457	0.0714530	0.22829981	2.6513416	20	10 15.2	20.4
441659 2008 WV_{95}	17.6	X	82.67812	238.44115	245.41621	20.81396	0.0735486	0.37308322	1.9110215	20	3 22.4	19.8
441660 2008 WS_{108}	17.1	X	69.53076	352.02859	345.50812	5.97772	0.1559325	0.25809350	2.4431568	20	—	—
441661 2008 WE_{112}	17.5	X	50.94882	309.69933	57.15341	3.42294	0.1816400	0.25803234	2.4435428	20	—	—
441662 2008 WJ_{124}	16.3	X	12.63825	68.14001	270.44074	14.43379	0.1452154	0.24072505	2.5593039	20	11 2.6	19.5
441663 2008 WL_{134}	16.8	X	266.92242	322.52467	110.62081	22.98157	0.0289737	0.22682286	2.6628385	20	10 8.5	20.9
441664 2008 WW_{134}	16.1	X	255.55094	328.67132	92.45043	15.27730	0.1672343	0.22864806	2.6486487	20	8 8.0	19.9
441665 2008 WE_{135}	17.9	X	47.04155	279.77254	112.87647	2.20903	0.1893690	0.26221864	2.4174658	20	—	—
441666 2008 WU_{137}	17.8	X	57.88008	148.29501	266.74230	3.98812	0.1862021	0.26811288	2.3819041	20	—	—
441667 2008 WR_{138}	15.8	X	190.32508	12.71753	26.89779	2.87811	0.2836845	0.12632567	3.9337641	20	5 3.6	22.5
441668 2008 XE_{11}	16.2	X	245.66823	341.49496	88.95262	22.74715	0.0389830	0.22947777	2.6422605	20	9 2.6	20.3
441669 2008 XP_{14}	18.8	X	67.58454	115.33176	266.99305	3.55279	0.1955593	0.26662914	2.3907325	20	—	—
441670 2008 XO_{36}	18.6	X	41.47031	12.43390	38.79835	3.16085	0.1697222	0.26376420	2.4080130	20	—	—
441671 2008 XX_{37}	17.3	X	125.65327	280.01983	44.50173	5.99142	0.2178862	0.26662101	2.3907811	20	—	—
441672 2008 XU_{38}	17.6	X	302.11479	41.35715	44.46372	3.07220	0.0260626	0.24617823	2.5213683	20	12 5.5	20.8
441673 2008 XU_{43}	17.1	X	316.90134	326.95515	129.33058	8.68155	0.1494739	0.24076365	2.5590303	20	—	—
441674 2008 XK_{48}	18.0	X	43.71517	168.23709	226.47222	0.79808	0.1983122	0.25683650	2.4511218	20	—	—
441675 2008 XP_{52}	17.1	X	338.71462	113.56514	330.80354	4.44981	0.1620486	0.25438131	2.4668680	20	—	—
441676 2008 YB_{6}	17.7	X	18.29322	353.65400	77.61980	3.39844	0.1572320	0.26157147	2.4214517	20	—	—
441677 2008 YO_{6}	17.9	X	73.11080	244.72048	129.97509	7.32001	0.1833245	0.26487138	2.4012978	20	—	—
441678 2008 YR_{15}	17.8	X	56.44287	284.01143	112.13164	6.91995	0.1206515	0.25861662	2.4398611	20	—	—
441679 2008 YB_{18}	17.8	X	26.78534	72.24858	289.52926	8.33706	0.0763095	0.24013125	2.5635213	20	12 17.1	21.0
441680 2008 YE_{22}	17.2	X	4.81191	271.51219	119.90445	15.83294	0.1658475	0.24320441	2.5418803	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
441681 2008 YK_{30}	18.3	X	98.54307	247.30247	129.43489	2.16768	0.1574413	0.27189735	2.3597504	20	—	—
441682 2008 YM_{45}	17.4	X	251.35880	33.91801	86.55656	4.36024	0.1905289	0.23526549	2.5987464	20	10 17.6	20.9
441683 2008 YW_{47}	17.5	X	89.05083	36.78179	310.93292	4.55141	0.2014016	0.25624833	2.4548711	20	—	—
441684 2008 YE_{53}	18.1	X	18.89496	17.02194	11.43957	3.00543	0.1990515	0.24696996	2.5159767	20	—	—
441685 2008 YW_{89}	17.9	X	7.04856	309.72707	112.02633	2.32828	0.1702198	0.25370705	2.4712368	20	—	—
441686 2008 YG_{93}	16.8	X	215.01923	191.43981	293.92700	10.95827	0.0073694	0.22811173	2.6527987	20	9 24.1	20.6
441687 2008 YK_{96}	16.3	X	139.46068	298.12565	299.41063	13.15959	0.0567513	0.23392792	2.6086432	20	11 16.6	20.4
441688 2008 YL_{99}	17.4	X	345.20533	277.12619	115.35744	8.44724	0.1629989	0.24071624	2.5593663	20	12 8.1	20.0
441689 2008 YC_{100}	17.0	X	73.21934	178.37964	114.33001	15.70889	0.1006237	0.23298754	2.6156578	20	11 22.8	21.0
441690 2008 YP_{107}	18.0	X	45.59855	319.49399	113.56774	7.77512	0.1615132	0.26226423	2.4171857	20	—	—
441691 2008 YK_{108}	16.2	X	103.10420	315.83303	303.56786	28.23475	0.0999684	0.22867441	2.6484453	20	10 27.5	20.9
441692 2008 YS_{113}	17.6	X	320.96163	328.61277	98.24346	4.37510	0.1592284	0.24314559	2.5422902	20	12 9.9	19.8
441693 2008 YD_{124}	17.5	X	250.80816	34.81186	121.05822	8.40265	0.0943001	0.24220818	2.5488455	20	12 17.5	20.6
441694 2008 YN_{124}	17.4	X	62.95809	275.62099	86.59709	3.45534	0.2261798	0.25385827	2.4702553	20	—	—
441695 2008 YG_{135}	17.4	X	58.23003	232.84088	119.05972	2.98488	0.1882643	0.25677177	2.4515337	20	—	—
441696 2008 YT_{139}	17.5	X	78.06818	185.21876	170.15989	3.22666	0.2352278	0.25701574	2.4499821	20	—	—
441697 2008 YF_{148}	18.0	X	19.41069	308.20745	281.85067	19.18433	0.0579007	0.37700749	1.8977372	20	6 4.4	19.6
441698 2008 YF_{158}	16.7	X	97.64891	6.85017	138.52646	15.22818	0.0584576	0.19762340	2.9190653	20	6 3.2	21.1
441699 2008 YR_{159}	17.7	X	13.67871	258.12343	132.25297	1.63254	0.1420689	0.24496584	2.5296806	20	—	—
441700 2008 YU_{165}	18.3	X	323.37868	98.40962	346.35966	4.00486	0.1832899	0.24508931	2.5288310	20	—	—
441701 2008 YH_{171}	18.0	X	95.22864	71.99766	110.77901	24.07257	0.0442109	0.38521112	1.8706972	20	7 27.7	19.7
441702 2009 AY	17.8	X	298.15890	158.46152	284.55323	2.96721	0.1583269	0.24013780	2.5634746	20	11 15.1	20.4
441703 2009 AV_{6}	16.8	X	200.70491	237.21379	277.90683	13.29627	0.0834943	0.23030102	2.6359599	20	10 6.2	21.0
441704 2009 AP_{9}	17.5	X	359.58479	147.91988	289.27910	10.36703	0.1984788	0.25387944	2.4701180	20	—	—
441705 2009 AT_{12}	17.5	X	17.77288	280.07446	96.51212	1.52168	0.1352523	0.24399026	2.5364194	20	—	—
441706 2009 AB_{31}	17.5	X	116.61664	337.12887	265.07873	1.20707	0.0645681	0.22984104	2.6394757	20	10 30.0	21.2
441707 2009 AK_{31}	17.7	X	27.08810	256.18275	151.62890	2.38313	0.1710773	0.25400816	2.4692834	20	—	—
441708 2009 AB_{32}	17.1	X	110.95817	283.11678	307.43204	9.53898	0.1664740	0.22119147	2.7078450	20	10 10.3	21.6
441709 2009 AM_{42}	18.2	X	321.18309	182.50888	262.45962	4.69240	0.1144823	0.24244771	2.5471664	20	—	—
441710 2009 AT_{46}	17.0	X	251.03357	271.03087	130.06236	5.29979	0.0660528	0.21520082	2.7578678	20	7 17.1	20.8
441711 2009 BW	17.4	X	39.17734	87.50549	329.91929	11.61235	0.2099422	0.26099559	2.4250122	20	—	—
441712 2009 BW_{3}	16.3	X	35.93998	74.20757	267.81072	11.15422	0.0264411	0.23628442	2.5912700	20	11 24.5	19.8
441713 2009 BB_{5}	16.7	X	173.49614	45.35864	100.22027	22.52623	0.0423386	0.22057005	2.7129285	20	9 9.1	21.0
441714 2009 BQ_{6}	17.1	X	290.34909	184.31091	282.28603	11.44945	0.1057732	0.24023218	2.5628032	20	12 9.7	19.9
441715 2009 BO_{9}	16.4	X	204.39291	205.85801	309.86247	13.15213	0.1476821	0.22634795	2.6665619	20	10 3.8	20.8
441716 2009 BR_{16}	17.1	X	322.39213	294.52741	146.00582	12.96415	0.1492690	0.24043604	2.5613544	20	12 30.9	19.8
441717 2009 BN_{19}	18.1	X	279.11970	182.84784	115.23835	24.88016	0.0755754	0.37054201	1.9197488	20	4 7.7	20.9
441718 2009 BO_{33}	17.3	X	142.73184	232.08155	329.84276	5.83680	0.0309134	0.22469095	2.6796557	20	10 4.9	21.1
441719 2009 BC_{34}	17.3	X	129.86630	146.65270	91.40302	3.56409	0.0805852	0.22878437	2.6475966	20	11 10.1	21.1
441720 2009 BC_{37}	17.5	X	321.01678	297.18429	106.44312	3.02528	0.1376949	0.23364355	2.6107594	20	11 3.6	20.1
441721 2009 BK_{37}	17.9	X	19.06639	296.73986	108.12387	3.08282	0.1245008	0.24737550	2.5132263	20	—	—
441722 2009 BB_{51}	17.4	X	138.70204	120.19544	110.60298	5.21972	0.0449978	0.23023157	2.6364900	20	11 11.3	21.1
441723 2009 BU_{51}	17.1	X	211.57058	168.02692	318.78595	5.67312	0.0458198	0.22411646	2.6842330	20	9 20.4	20.8
441724 2009 BA_{52}	17.5	X	21.83948	75.17932	311.71122	13.78248	0.1346798	0.24490328	2.5301114	20	—	—
441725 2009 BJ_{52}	17.1	X	293.78671	263.64675	119.38771	6.61738	0.1437905	0.22245204	2.6976056	20	8 12.1	20.1
441726 2009 BT_{52}	17.5	X	297.05497	102.78614	316.48651	13.16585	0.0451085	0.22905625	2.6455011	20	10 11.5	21.1
441727 2009 BL_{53}	17.2	X	74.32025	115.07055	121.71859	8.86450	0.1557775	0.21230840	2.7828594	20	9 16.4	21.3
441728 2009 BT_{60}	16.8	X	310.75410	141.76385	309.05262	12.99485	0.1235497	0.23971069	2.5665188	20	12 23.7	19.6
441729 2009 BL_{66}	17.2	X	320.78666	83.70993	290.98895	4.79261	0.0766394	0.22229665	2.6988625	20	9 18.3	20.4
441730 2009 BT_{68}	16.9	X	67.18466	302.96584	144.50153	6.99722	0.1069581	0.26877374	2.3779980	20	1 29.9	19.4
441731 2009 BD_{69}	17.5	X	276.56228	359.29522	116.86905	14.54986	0.0996745	0.23950947	2.5679560	20	12 4.0	20.7
441732 2009 BZ_{74}	16.7	X	315.86424	86.81647	352.97133	8.93349	0.1413066	0.24213502	2.5493589	20	12 17.1	19.4
441733 2009 BV_{77}	17.6	X	25.69142	244.36046	329.17332	17.92062	0.0355168	0.37182697	1.9153235	20	5 4.9	19.9
441734 2009 BR_{81}	16.9	X	220.39008	178.51280	309.19126	11.18982	0.1104621	0.22561696	2.6723185	20	9 21.1	20.9
441735 2009 BC_{89}	17.3	X	143.06014	49.11279	137.45783	5.13320	0.0485559	0.22040737	2.7142633	20	9 19.3	21.1
441736 2009 BO_{90}	17.0	X	184.42793	246.75820	305.52286	3.34828	0.1357777	0.22947354	2.6422930	20	11 5.3	21.2
441737 2009 BB_{99}	16.8	X	159.51096	187.28128	9.67665	7.62439	0.1718680	0.22166819	2.7039613	20	10 16.6	21.3
441738 2009 BL_{102}	18.0	X	316.41281	124.49174	165.95036	21.71470	0.0765419	0.36550211	1.9373561	20	5 20.1	20.3
441739 2009 BP_{103}	16.9	X	25.34346	335.88943	232.75591	1.22080	0.1590476	0.19196106	2.9761898	20	5 22.1	20.0
441740 2009 BN_{107}	17.7	X	22.72116	226.99682	153.30529	6.19106	0.2604309	0.24484601	2.5305059	20	—	—
441741 2009 BN_{110}	17.3	X	116.01236	89.54611	98.49524	3.42060	0.0893387	0.20891923	2.8128751	20	8 22.2	21.4
441742 2009 BR_{111}	18.0	X	25.59750	79.60968	307.40535	3.91647	0.0951743	0.24688143	2.5165782	20	—	—
441743 2009 BH_{134}	17.1	X	285.35724	122.07968	312.75752	5.69530	0.0620938	0.23063078	2.6334467	20	10 18.5	20.4
441744 2009 BA_{136}	16.7	X	333.18513	173.40534	147.83926	5.33363	0.1104301	0.21365988	2.7711119	20	7 24.6	19.8
441745 2009 BM_{139}	17.0	X	58.08445	181.87611	142.45148	4.54613	0.0446240	0.23418060	2.6067664	20	12 3.7	20.6
441746 2009 BJ_{141}	16.8	X	119.20953	57.50887	130.53449	13.23087	0.1332593	0.21239221	2.7821273	20	8 30.5	21.1
441747 2009 BJ_{150}	17.2	X	330.50401	113.10520	322.91349	7.87550	0.0882001	0.23757307	2.5818910	20	—	—
441748 2009 BF_{157}	16.7	X	32.40737	92.64993	153.67846	19.19379	0.1875272	0.19897754	2.9058064	20	7 30.7	20.2
441749 2009 BB_{159}	17.1	X	286.13872	276.63103	159.33346	9.47338	0.1206348	0.22733895	2.6588070	20	10 19.4	20.3
441750 2009 BG_{169}	16.5	X	89.32000	320.97938	287.84040	7.49909	0.1051871	0.21776426	2.7361820	20	10 5.9	20.7
441751 2009 BL_{175}	16.9	X	26.86024	141.78125	139.18198	9.85914	0.2145746	0.21265014	2.7798771	20	9 18.2	20.1
441752 2009 CG_{2}	16.8	X	276.52625	334.91358	111.08775	6.49965	0.0508316	0.23031781	2.6358319	20	10 28.1	20.2
441753 2009 CY_{3}	17.5	X	301.84177	9.09457	93.85006	5.09202	0.1660696	0.24169685	2.5524391	20	12 22.7	19.8
441754 2009 CG_{4}	17.2	X	339.73681	75.59121	286.10959	4.95440	0.1534291	0.23926442	2.5697092	20	10 7.4	19.9
441755 2009 CU_{5}	17.7	X	271.86423	121.63217	140.86420	37.46781	0.0533658	0.35540040	1.9738953	20	1 27.1	20.1
441756 2009 CU_{14}	17.3	X	199.38841	140.75144	348.28104	4.72284	0.1238588	0.21761825	2.7374058	20	9 3.7	21.5
441757 2009 CK_{21}	17.1	X	330.58001	92.58134	309.28062	12.56973	0.0977592	0.23401962	2.6079617	20	11 12.3	20.4
441758 2009 CN_{22}	16.6	X	75.61622	310.65778	311.85135	9.82784	0.2001177	0.21773377	2.7364375	20	10 18.0	20.9
441759 2009 CO_{28}	17.8	X	29.75169	74.09286	359.10405	1.97575	0.1847790	0.25536648	2.4605194	20	—	—
441760 2009 CS_{30}	16.2	X	322.13100	87.40986	139.95015	17.36470	0.1798145	0.17842372	3.1248870	20	2 23.4	20.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
441761 2009 CU_{34}	17.1	X	111.28413	125.08436	81.81884	5.23521	0.1539286	0.21497240	2.7598209	20	9 17.7	21.5
441762 2009 CD_{39}	17.5	X	49.46336	60.55568	158.03452	23.40711	0.0756998	0.37489458	1.9048609	20	7 15.2	19.7
441763 2009 CS_{41}	17.2	X	41.62003	73.12606	139.97552	11.28904	0.1108913	0.20029511	2.8930492	20	6 20.6	20.9
441764 2009 CZ_{47}	16.7	X	359.17578	305.49198	126.28069	8.05220	0.1841271	0.24529361	2.5274266	20	—	—
441765 2009 CJ_{50}	17.5	X	291.03178	124.39334	330.34583	9.01264	0.1679881	0.23717646	2.5847686	20	11 13.4	20.4
441766 2009 CR_{51}	16.9	X	142.21322	44.53922	127.95192	14.08763	0.1154158	0.21527658	2.7572207	20	9 3.1	21.2
441767 2009 CK_{52}	17.6	X	308.98887	292.02703	140.62134	4.41209	0.2006279	0.23750532	2.5823820	20	11 21.0	19.8
441768 2009 CX_{64}	17.3	X	247.71036	324.97127	131.76330	3.88556	0.1252294	0.22296013	2.6935057	20	9 18.7	20.9
441769 2009 DT_{2}	16.6	X	214.35946	126.28555	11.00316	14.54817	0.0809780	0.22186921	2.7023278	20	10 4.9	20.5
441770 2009 DQ_{3}	16.9	X	336.63615	32.59507	335.65006	5.70246	0.0240051	0.22067300	2.7120847	20	10 4.5	20.5
441771 2009 DU_{3}	18.0	X	77.35236	155.14333	27.41014	6.25079	0.0853966	0.37276495	1.9121091	20	7 5.1	19.8
441772 2009 DE_{4}	16.9	X	289.26848	316.30954	122.31903	5.46002	0.0621951	0.23202598	2.6228793	20	11 4.1	20.2
441773 2009 DU_{7}	16.8	X	274.06044	161.69242	330.71521	13.96361	0.0973579	0.23494739	2.6010916	20	12 18.1	20.1
441774 2009 DM_{31}	16.4	X	23.35707	324.37658	178.32827	14.63986	0.2377498	0.17499960	3.1655172	20	2 19.9	19.7
441775 2009 DS_{34}	17.0	X	278.98992	290.93537	169.38897	12.64630	0.1262296	0.22659149	2.6646509	20	11 9.5	20.3
441776 2009 DM_{41}	16.6	X	239.33870	325.62333	140.40061	14.30430	0.1346469	0.22511776	2.6762676	20	9 21.5	20.4
441777 2009 DF_{45}	15.6	X	130.76530	228.95270	352.56852	24.30325	0.1794424	0.21609023	2.7502951	20	10 12.2	20.4
441778 2009 DZ_{45}	16.6	X	169.86065	354.18941	159.08584	18.02616	0.1694068	0.21551751	2.7551654	20	9 3.2	21.1
441779 2009 DF_{49}	16.6	X	348.65907	61.89611	171.99616	2.71004	0.1441754	0.18323479	3.0699462	20	4 18.8	20.2
441780 2009 DG_{49}	16.8	X	16.37714	236.26429	173.75798	9.13865	0.0867584	0.23754665	2.5820824	20	—	—
441781 2009 DA_{55}	17.6	X	106.97262	214.57636	7.68086	4.60100	0.1008816	0.21353497	2.7721925	20	9 25.3	21.7
441782 2009 DY_{63}	17.0	X	210.82790	6.77601	146.08233	13.30827	0.0972443	0.22261089	2.6963222	20	10 23.7	21.1
441783 2009 DT_{64}	16.4	X	133.24361	276.23870	314.11347	9.06104	0.1504070	0.22164818	2.7041240	20	10 30.8	20.9
441784 2009 DA_{72}	17.1	X	292.79488	325.41860	125.25166	11.52482	0.2278463	0.23576294	2.5950896	20	11 11.7	19.7
441785 2009 DB_{79}	16.9	X	150.09674	232.95620	351.66965	14.32432	0.0568863	0.22458845	2.6804710	20	11 7.9	21.0
441786 2009 DF_{89}	16.7	X	328.22959	345.50614	33.33990	6.57069	0.0579016	0.21665349	2.7455262	20	10 9.2	20.0
441787 2009 DK_{107}	17.8	X	14.42176	36.71923	195.04053	2.56493	0.2359716	0.18852111	3.0122849	20	6 9.1	20.7
441788 2009 DE_{126}	16.9	X	214.37312	129.68146	357.73428	9.00569	0.0288817	0.21470372	2.7621229	20	9 26.9	20.8
441789 2009 DA_{135}	16.5	X	0.89206	140.81383	77.98531	1.67771	0.1035672	0.18278314	3.0750013	20	4 21.3	20.0
441790 2009 EQ_{12}	16.6	X	323.89477	3.91914	67.81132	7.81895	0.2466589	0.24128003	2.5553778	20	12 28.4	18.4
441791 2009 EC_{16}	17.6	X	230.11533	106.59260	18.98105	3.91721	0.1088097	0.22380078	2.6867566	20	10 5.7	21.4
441792 2009 ED_{18}	16.8	X	37.73288	339.60461	335.62941	10.59626	0.0219391	0.22047624	2.7136980	20	10 14.9	20.6
441793 2009 EL_{18}	17.2	X	118.70344	46.38381	174.99138	13.32530	0.1244282	0.21324630	2.7746936	20	10 9.5	21.5
441794 2009 ES_{24}	17.0	X	217.79654	339.54016	107.95184	3.23026	0.0266741	0.20325088	2.8649327	20	8 10.4	20.9
441795 2009 FM_{9}	17.9	X	203.82817	269.02461	177.54916	23.10245	0.0754598	0.38166343	1.8822719	20	7 27.1	20.6
441796 2009 FN_{27}	16.9	X	321.66330	1.91293	93.98421	6.04702	0.1995128	0.24203454	2.5500644	20	—	—
441797 2009 FQ_{27}	16.4	X	313.78457	244.28204	163.92929	14.47336	0.0956491	0.22297672	2.6933722	20	10 29.3	19.7
441798 2009 FV_{27}	16.4	X	4.34131	141.58266	76.37264	4.39674	0.1357619	0.18439331	3.0570740	20	4 26.4	19.9
441799 2009 FJ_{41}	16.8	X	279.81021	35.53533	83.56022	5.43758	0.1365204	0.23374370	2.6100137	20	12 4.1	19.7
441800 2009 FY_{45}	16.6	X	347.91935	98.39776	169.52181	15.25227	0.3488280	0.18436140	3.0574267	20	5 21.2	19.2
441801 2009 FV_{53}	16.9	X	8.93499	270.24005	66.03810	6.94097	0.0544511	0.21305708	2.7763363	20	10 13.6	20.5
441802 2009 FH_{64}	17.1	X	13.98514	69.68692	190.62428	6.34522	0.1832790	0.19134801	2.9825433	20	7 14.2	20.4
441803 2009 FC_{65}	17.1	X	174.34032	137.04780	30.58636	8.74003	0.1132063	0.21165488	2.7885848	20	9 28.5	21.4
441804 2009 FW_{73}	16.1	X	353.09981	152.19901	128.29467	11.61245	0.3274150	0.18527801	3.0473345	20	6 29.1	18.4
441805 2009 HQ_{8}	16.6	X	243.74312	107.00689	31.09227	11.98274	0.1355254	0.22475176	2.6791723	20	11 2.6	20.2
441806 2009 HJ_{24}	16.5	X	2.47898	54.75898	189.63758	17.60078	0.2010245	0.18261102	3.0769331	20	5 30.4	20.0
441807 2009 HE_{34}	16.0	X	345.47440	232.55385	68.58395	14.95408	0.2702135	0.18647952	3.0342309	20	7 11.4	18.8
441808 2009 HV_{39}	16.5	X	71.79711	93.94028	102.01574	12.73449	0.0986962	0.18829141	3.0147343	20	7 8.2	20.7
441809 2009 HV_{48}	16.4	X	45.48315	242.00091	82.47138	7.80476	0.1437317	0.20897585	2.8123669	20	11 26.7	20.3
441810 2009 HD_{99}	17.2	X	93.38211	215.65095	61.11543	2.50337	0.0982205	0.21344118	2.7730045	20	11 16.6	21.4
441811 2009 HF_{102}	16.8	X	330.67295	226.86000	84.42394	2.61602	0.2955017	0.18193425	3.0845589	20	6 13.1	19.5
441812 2009 JH_{8}	16.4	X	18.05871	172.06151	80.27030	13.61850	0.0930040	0.18777236	3.0202875	20	7 3.1	20.1
441813 2009 KH_{5}	17.0	X	350.60510	147.71894	122.29544	9.95314	0.2097528	0.18261232	3.0769186	20	6 9.8	20.3
441814 2009 KP_{23}	16.1	X	326.58271	222.59349	93.88960	11.31413	0.0930952	0.18818029	3.0159210	20	7 6.6	19.8
441815 2009 KU_{23}	15.4	X	65.27857	270.79251	224.72018	31.10379	0.0078595	0.16995438	3.2278584	20	3 27.6	20.4
441816 2009 KC_{24}	16.2	X	177.37711	253.41692	165.91210	15.18224	0.1168802	0.18013124	3.1051079	20	5 18.9	21.4
441817 2009 LM_{4}	15.5	X	345.87287	139.34219	110.90143	23.34738	0.1774825	0.17754070	3.1352398	20	5 13.7	19.5
441818 2009 MW_{8}	15.3	X	5.07423	315.95790	292.26103	25.96445	0.2091895	0.17411939	3.1761765	20	6 11.9	18.9
441819 2009 NW_{1}	15.9	X	326.61090	266.03216	65.03894	25.80545	0.3694976	0.17506674	3.1647079	20	6 15.8	19.0
441820 2009 OD_{10}	15.6	X	317.49096	30.27824	305.87638	19.32147	0.1484184	0.17236385	3.1977064	20	7 13.7	19.5
441821 2009 OW_{12}	15.8	X	267.82799	117.19889	298.16377	21.24944	0.2890285	0.17256098	3.1952706	20	7 22.1	20.4
441822 2009 OC_{17}	15.9	X	344.65250	115.02912	234.24627	10.06204	0.0919958	0.18261316	3.0769091	20	9 13.2	19.9
441823 2009 QO_{5}	22.1	X	126.00644	188.79964	145.77027	8.55466	0.2381500	0.48898928	1.5956458	20	—	—
441824 2009 RO_{61}	15.9	X	2.64744	82.37125	210.17446	16.12207	0.2308989	0.17418306	3.1754024	20	8 3.3	19.5
441825 2009 SK_{1}	18.4	X	151.82617	104.47188	184.38717	30.81572	0.2227831	0.48197670	1.6110859	20	—	—
441826 2009 SR_{64}	16.3	X	235.61738	271.69047	175.39747	9.41871	0.0528713	0.17486333	3.1671616	20	8 23.8	20.9
441827 2009 SA_{88}	18.4	X	65.99466	322.28335	110.16701	3.52862	0.1216844	0.30504745	2.1855351	20	—	—
441828 2009 SF_{97}	16.8	X	285.28852	347.62617	22.71179	0.77944	0.2417499	0.16699156	3.2659263	20	6 22.8	21.2
441829 2009 SQ_{241}	15.5	X	335.12977	138.56007	221.53651	25.79262	0.2029090	0.17512612	3.1639924	20	9 4.1	19.5
441830 2009 SJ_{244}	18.0	X	334.16875	27.18815	102.86014	3.93890	0.0978064	0.29509505	2.2344026	20	—	—
441831 2009 SB_{286}	18.9	X	197.66176	127.96223	175.12213	2.52438	0.1128683	0.31512664	2.1386808	20	—	—
441832 2009 SK_{343}	18.8	X	202.10111	132.74818	156.68214	5.14254	0.2125050	0.31288241	2.1488954	20	—	—
441833 2009 TU_{19}	15.7	X	169.24271	323.57856	49.02402	3.76777	0.0199371	0.13066034	3.8462738	20	3 14.3	21.2
441834 2009 TW_{47}	17.6	X	23.32210	321.21484	73.97803	7.11625	0.1130465	0.28604653	2.2812783	20	—	—
441835 2009 UH_{53}	15.8	X	271.56167	303.98101	28.67902	10.04615	0.0803780	0.15014005	3.5059443	20	5 11.2	20.8
441836 2009 UC_{82}	18.1	X	22.90140	63.81546	30.25570	5.09103	0.0844979	0.29757225	2.2219849	20	—	—
441837 2009 UZ_{125}	18.4	X	137.69352	44.04128	324.50841	4.65064	0.1602879	0.30963065	2.1639144	20	1 25.8	21.0
441838 2009 VJ_{5}	17.4	X	162.53261	267.09428	327.37155	1.59162	0.0865459	0.27707895	2.3302385	20	12 19.0	20.5
441839 2009 VU_{28}	15.6	X	115.69375	199.37605	228.82741	2.97930	0.1749579	0.12383778	3.9862752	20	4 3.1	21.5
441840 2009 VK_{31}	18.4	X	66.64135	62.83704	10.47140	4.58539	0.0816385	0.30159545	2.2021802	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
441841 2009 VB_{35}	18.7	X	191.76098	32.64955	277.11571	2.86753	0.1691031	0.30875555	2.1680013	20	1 6.7	21.8
441842 2009 VJ_{35}	17.4	X	269.84898	200.55667	271.68422	4.10578	0.0745195	0.27080033	2.3661190	20	11 26.4	20.1
441843 2009 VK_{53}	17.9	X	236.57069	335.18019	238.95629	5.23339	0.1272968	0.29175615	2.2514175	20	—	—
441844 2009 VK_{58}	17.6	X	306.36028	51.88991	81.69656	6.44561	0.1315956	0.28361350	2.2943066	20	—	—
441845 2009 VU_{73}	15.9	X	161.25372	310.98935	58.32087	3.05976	0.0385051	0.12806121	3.8981419	20	3 2.9	21.5
441846 2009 VX_{98}	17.9	X	226.92396	24.76628	107.83780	3.81714	0.1237867	0.26211971	2.4180741	20	10 16.9	21.2
441847 2009 VG_{114}	17.6	X	128.57403	41.33933	264.46083	6.81961	0.2088031	0.28616583	2.2806442	20	—	—
441848 2009 WN_{10}	14.8	X	111.01930	240.35160	206.25552	10.08207	0.2106846	0.12607024	3.9390756	20	4 24.5	20.7
441849 2009 WO_{20}	18.0	X	92.48704	120.10210	301.20804	3.31477	0.1231312	0.30302938	2.1952276	20	1 30.1	20.2
441850 2009 WJ_{23}	17.8	X	53.25812	37.81953	17.91383	3.92579	0.1708201	0.29205607	2.2498759	20	—	—
441851 2009 WK_{33}	15.3	X	135.33258	338.26696	81.70410	4.86782	0.1993449	0.12664800	3.9270868	20	4 16.1	21.5
441852 2009 WC_{42}	18.3	X	118.79637	276.19939	71.82280	5.70331	0.1320948	0.29353987	2.2422876	20	—	—
441853 2009 WD_{71}	18.7	X	147.92747	289.64638	71.14987	4.53094	0.2064926	0.30877431	2.1679134	20	2 2.7	21.6
441854 2009 WR_{96}	18.0	X	355.97155	40.31325	65.96390	3.45600	0.1083373	0.29014810	2.2597283	20	—	—
441855 2009 WY_{96}	18.8	X	169.48403	141.16180	220.32766	4.06515	0.2173503	0.31511085	2.1387522	20	2 21.4	22.0
441856 2009 WD_{101}	17.4	X	226.96939	75.11751	77.07781	7.58533	0.0564583	0.26879066	2.3778983	20	11 22.7	20.3
441857 2009 WP_{162}	18.4	X	75.25707	134.36008	249.91395	7.85930	0.2385384	0.29418024	2.2390324	20	—	—
441858 2009 WS_{169}	18.2	X	326.62773	262.63625	239.17728	6.55094	0.0600512	0.29418971	2.2389844	20	—	—
441859 2009 WU_{171}	18.4	X	136.26942	79.86727	285.62315	4.34948	0.1590872	0.30644845	2.1788689	20	1 19.3	21.1
441860 2009 WH_{190}	17.5	X	191.55500	28.44097	250.34406	4.45119	0.2366704	0.29570240	2.2313420	20	—	—
441861 2009 WF_{219}	18.4	X	115.04112	318.52809	64.82845	4.72175	0.1695649	0.30326706	2.1940805	20	1 19.2	20.8
441862 2009 WX_{260}	18.8	X	127.96410	330.46953	63.89619	2.83139	0.1528691	0.30693520	2.1765647	20	2 18.1	21.4
441863 2009 WE_{262}	17.4	X	339.91721	191.62596	272.53934	6.40075	0.1952130	0.28108979	2.3080188	20	—	—
441864 2009 XG	17.9	X	357.08783	30.16285	86.23080	5.79098	0.1150333	0.29064199	2.2571676	20	—	—
441865 2009 YZ_{2}	17.4	X	122.05987	266.31024	258.00803	3.88332	0.1787834	0.23245251	2.6196698	20	8 4.7	21.6
441866 2009 YM_{11}	18.1	X	62.86753	345.82444	68.72002	3.65247	0.1465342	0.29047268	2.2580447	20	—	—
441867 2009 YA_{15}	17.8	X	259.55446	173.50089	332.93849	4.69150	0.1270451	0.26556160	2.3971352	20	12 19.8	20.3
441868 2009 YC_{17}	17.3	X	275.55510	48.28280	96.62435	7.06337	0.0727563	0.27234868	2.3571426	20	—	—
441869 2009 YG_{23}	17.5	X	355.86011	351.30366	105.61844	8.42558	0.0628632	0.28055205	2.3109670	20	—	—
441870 2009 YF_{25}	18.1	X	257.59038	108.25983	71.74308	2.34869	0.1171218	0.27037952	2.3685735	20	—	—
441871 2010 AX_{38}	17.9	X	305.44955	158.25487	319.99911	6.11851	0.1634103	0.26792250	2.3830323	20	—	—
441872 2010 AC_{40}	17.3	X	12.58337	297.63512	113.79222	22.96064	0.2333367	0.27978919	2.3151658	20	—	—
441873 2010 AB_{55}	18.0	X	244.53193	122.60244	48.17622	3.04721	0.1358618	0.26193515	2.4192098	20	12 27.5	20.6
441874 2010 AC_{60}	18.2	X	49.77087	61.23459	18.92356	5.59735	0.1361439	0.29149496	2.2527622	20	—	—
441875 2010 AX_{128}	16.2	X	78.81848	272.65146	332.42691	21.66961	0.3944849	0.21989371	2.7184885	20	10 11.9	21.3
441876 2010 AV_{133}	17.0	X	30.66377	248.30451	116.89471	12.57563	0.1183961	0.24649429	2.5192125	20	—	—
441877 2010 BS_{6}	17.0	X	100.57090	57.59171	222.64819	13.52938	0.1369750	0.23904929	2.5712506	20	12 5.8	21.1
441878 2010 BK_{13}	17.1	X	29.38461	47.71842	218.69168	18.11789	0.2748099	0.21322045	2.7749180	20	9 3.2	20.6
441879 2010 BC_{74}	17.3	X	112.94204	346.29244	247.10981	6.63514	0.0648608	0.23086876	2.6316367	20	10 13.0	21.2
441880 2010 CX_{9}	16.0	X	65.11315	22.74346	307.78513	30.56635	0.1783296	0.23660906	2.5888992	20	—	—
441881 2010 CW_{31}	17.1	X	346.53143	312.23281	150.65482	22.63239	0.2115331	0.27618949	2.3352387	20	—	—
441882 2010 CC_{51}	16.9	X	217.49233	287.87280	267.60260	9.37316	0.0441066	0.24606725	2.5221263	20	12 31.9	20.2
441883 2010 CM_{70}	17.9	X	245.59996	57.29602	110.16403	4.12321	0.0706895	0.26567083	2.3964781	20	—	—
441884 2010 CX_{73}	17.7	X	45.29014	118.88486	314.48715	5.87015	0.0816418	0.28247432	2.3004709	20	—	—
441885 2010 CH_{79}	17.3	X	104.73164	231.72382	328.32620	1.61911	0.0684006	0.22904492	2.6455884	20	8 23.2	20.9
441886 2010 CZ_{98}	17.0	X	96.78956	121.32410	155.22625	14.05069	0.1881554	0.24144551	2.5542102	20	12 3.7	21.4
441887 2010 CS_{103}	17.3	X	120.86587	257.49515	353.82437	9.63223	0.0567865	0.24466441	2.5317580	20	11 14.7	21.1
441888 2010 CY_{155}	17.3	X	78.50326	283.43722	343.92401	10.75395	0.1977786	0.23572557	2.5953639	20	10 29.7	21.4
441889 2010 CH_{161}	17.6	X	71.85741	111.79658	141.39137	11.89638	0.1566598	0.23360350	2.6110578	20	10 8.5	21.5
441890 2010 CC_{162}	17.4	X	142.88048	300.47881	330.82813	9.25272	0.1288072	0.25826384	2.4420824	20	—	—
441891 2010 CE_{181}	17.4	X	221.31244	26.06862	183.41880	7.48127	0.0687181	0.26273274	2.4143112	20	—	—
441892 2010 CU_{181}	17.1	X	166.01834	11.64560	134.23462	7.34502	0.1042427	0.23411105	2.6072826	20	8 24.5	21.0
441893 2010 CC_{182}	17.5	X	112.09970	258.30056	322.45129	4.60235	0.1774492	0.23522585	2.5990384	20	10 4.7	21.7
441894 2010 DT_{25}	16.8	X	14.78142	51.37293	313.49797	27.11707	0.1487419	0.23163313	2.6258441	20	12 16.0	20.6
441895 2010 EM	16.3	X	221.74590	62.44446	118.92847	24.74233	0.1106356	0.24279223	2.5447562	20	12 13.9	20.1
441896 2010 EF_{29}	17.0	X	119.04223	58.91714	174.39761	15.57725	0.1558506	0.23595523	2.5936795	20	10 30.4	21.3
441897 2010 EG_{32}	17.1	X	121.00732	226.84633	359.32011	12.76282	0.1209325	0.23724903	2.5842415	20	10 15.6	21.2
441898 2010 EP_{33}	16.6	X	99.90610	220.44774	3.62736	13.31746	0.2126357	0.22745677	2.6578888	20	9 30.6	20.8
441899 2010 EU_{66}	17.8	X	140.96034	86.72485	144.93642	4.88373	0.0441758	0.24567740	2.5247938	20	11 17.7	21.3
441900 2010 EC_{68}	17.1	X	144.79461	178.56826	19.78316	12.57916	0.1288229	0.23516499	2.5994867	20	10 8.5	21.0
441901 2010 ES_{73}	17.2	X	144.55876	201.05678	11.16017	12.57780	0.1589676	0.23641677	2.5903028	20	10 22.4	21.4
441902 2010 EX_{77}	17.5	X	124.17248	93.80014	125.25537	4.77336	0.0839978	0.23617093	2.5921000	20	10 13.8	21.3
441903 2010 EH_{97}	17.6	X	150.87556	209.95948	36.30567	4.58276	0.0169835	0.25290209	2.4764778	20	12 19.1	20.8
441904 2010 EZ_{102}	17.7	X	54.40362	24.75397	260.18349	1.25050	0.1874765	0.23088812	2.6314896	20	10 28.0	21.2
441905 2010 EH_{104}	17.1	X	5.31919	156.69839	318.40372	10.39389	0.1497636	0.27841860	2.3227576	20	—	—
441906 2010 EC_{111}	17.0	X	97.63673	219.99619	357.03316	13.31070	0.2034676	0.22396087	2.6854760	20	9 19.5	21.1
441907 2010 EW_{122}	16.9	X	53.80916	77.34455	210.63706	12.17018	0.2631702	0.22384495	2.6864031	20	11 10.0	20.8
441908 2010 EM_{134}	16.9	X	92.01013	22.61965	193.88403	17.46125	0.0690747	0.22354939	2.6887704	20	8 24.9	20.9
441909 2010 EN_{171}	17.4	X	101.39087	123.24545	110.63411	12.79692	0.2540919	0.22984570	2.6394400	20	10 23.6	22.1
441910 2010 FW_{14}	16.6	X	118.59485	118.73580	99.94425	12.95816	0.1298676	0.23406324	2.6076377	20	10 14.2	20.9
441911 2010 FU_{19}	17.2	X	139.03183	75.77805	161.75713	10.79487	0.0771728	0.24408003	2.5357974	20	11 23.5	21.1
441912 2010 FD_{85}	16.7	X	93.08219	142.89719	74.97056	12.85145	0.2446097	0.22243040	2.6977805	20	9 26.9	21.3
441913 2010 FO_{87}	17.8	X	125.19737	259.28346	358.98858	2.55049	0.0723829	0.24253035	2.5465878	20	12 1.1	21.5
441914 2010 FL_{101}	15.8	X	56.74017	81.61933	88.64751	15.75859	0.0912623	0.20443125	2.8538941	20	5 17.1	19.6
441915 2010 GT_{94}	15.5	X	306.15425	195.26083	69.94527	16.41415	0.0179476	0.17770448	3.1333131	20	4 17.6	20.1
441916 2010 GO_{119}	16.9	X	127.24141	228.99829	12.23179	3.90998	0.0377979	0.23597324	2.5935476	20	11 9.3	20.4
441917 2010 GT_{123}	16.5	X	47.73259	133.64782	151.77570	11.51359	0.1549913	0.22179474	2.7029326	20	10 18.2	20.3
441918 2010 GN_{127}	17.5	X	59.84898	137.50922	149.20899	6.70005	0.2397773	0.22349972	2.6891688	20	11 13.1	21.6
441919 2010 GE_{142}	17.2	X	141.43280	326.95951	194.32602	12.95502	0.0985522	0.22598812	2.6693917	20	8 13.1	21.4
441920 2010 GW_{145}	16.9	X	69.28581	91.42708	155.01700	14.06625	0.2196927	0.22056723	2.7129517	20	10 2.1	21.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
441921 2010 HB_5	16.9	X	22.55425	274.96721	94.06955	17.72995	0.3468577	0.21568274	2.7537581	20	—	—
441922 2010 HK_{45}	16.2	X	252.35571	83.40610	260.90482	14.65577	0.1420701	0.17885988	3.1198048	20	4 23.4	21.1
441923 2010 HA_{70}	15.8	X	36.24146	34.29309	131.46784	21.94500	0.1217479	0.17542249	3.1604278	20	4 19.1	20.1
441924 2010 JB_2	17.2	X	8.25674	25.24622	236.32105	2.86636	0.1397246	0.20519637	2.8467955	20	7 3.2	20.2
441925 2010 JK_3	16.6	X	115.81932	344.52573	255.48397	15.78121	0.1885056	0.23040055	2.6352008	20	10 30.8	21.1
441926 2010 JL_{13}	16.6	X	350.20734	175.79735	189.89634	10.83133	0.2867855	0.20523741	2.8464160	20	11 13.1	19.1
441927 2010 JQ_{30}	17.0	X	243.18566	6.81567	128.13885	12.36721	0.1230981	0.23838849	2.5760000	20	11 8.7	20.6
441928 2010 JT_{31}	17.2	X	115.05981	103.42867	139.80805	13.17496	0.2167601	0.23166476	2.6256050	20	11 11.3	21.9
441929 2010 JB_{34}	16.8	X	175.75972	103.02067	88.68866	13.11749	0.2285637	0.23743554	2.5828880	20	10 30.3	21.4
441930 2010 JM_{37}	17.5	X	53.31958	221.80492	80.68886	3.73061	0.1727878	0.22586133	2.6703906	20	11 15.9	21.3
441931 2010 JS_{43}	16.6	X	89.00961	175.27176	88.51313	10.75340	0.0797237	0.22736859	2.6585760	20	10 31.6	20.5
441932 2010 JZ_{43}	17.7	X	131.39068	73.71238	151.83605	4.92381	0.1314400	0.23018394	2.6368537	20	10 29.6	21.8
441933 2010 JU_{45}	17.5	X	38.32453	97.29084	185.23607	4.80603	0.1702985	0.21580414	2.7527252	20	9 28.9	20.7
441934 2010 JB_{77}	17.2	X	22.22000	84.90055	223.20249	6.71406	0.2158418	0.21736098	2.7395654	20	10 15.3	20.4
441935 2010 JZ_{77}	16.4	X	198.66331	119.97383	57.92572	12.46160	0.1208055	0.23872650	2.5735679	20	11 7.7	20.1
441936 2010 JP_{78}	17.3	X	261.87982	88.67631	109.50675	3.49883	0.0421153	0.25899529	2.4374823	20	—	—
441937 2010 JK_{83}	16.9	X	47.96184	115.52628	186.28065	12.13594	0.1228925	0.22445440	2.6815381	20	11 2.6	20.5
441938 2010 JA_{114}	16.8	X	46.09161	164.47991	86.80965	3.31385	0.1935653	0.21326218	2.7745560	20	9 3.2	20.3
441939 2010 JG_{133}	15.9	X	225.58240	233.94152	139.66000	28.45575	0.2116626	0.17369782	3.1813135	20	5 10.3	21.7
441940 2010 JL_{147}	17.0	X	115.81075	357.08753	215.41056	4.83929	0.0961252	0.22522219	2.6754403	20	9 21.9	21.0
441941 2010 JV_{149}	16.9	X	18.63221	107.90866	229.25077	13.07370	0.2245988	0.22064546	2.7123103	20	11 21.3	20.0
441942 2010 KB_{35}	16.4	X	351.28830	27.23106	324.73497	16.56524	0.1668237	0.20344634	2.8630975	20	10 1.3	19.8
441943 2010 KF_{62}	16.8	X	65.91800	171.90175	94.36932	7.78158	0.2675546	0.21802765	2.7339779	20	10 28.7	21.1
441944 2010 KZ_{78}	17.1	X	30.13044	152.34463	130.53581	9.10790	0.1731315	0.19966146	2.8991669	20	9 17.6	20.7
441945 2010 KZ_{79}	15.9	X	227.80214	89.82499	325.34321	17.81401	0.0553758	0.18569384	3.0427835	20	7 10.5	20.5
441946 2010 KR_{95}	15.8	X	298.74427	54.55733	309.06392	9.59771	0.0501894	0.19137347	2.9822787	20	8 1.9	19.6
441947 2010 LE_{12}	16.5	X	343.09841	287.08137	333.79787	5.78303	0.2964449	0.18426779	3.0584621	20	4 25.8	19.3
441948 2010 LD_{17}	16.2	X	320.38730	48.40827	308.64700	10.94018	0.0736964	0.19441348	2.9511082	20	8 20.7	19.9
441949 2010 LZ_{33}	16.8	X	42.95029	76.48426	194.72364	9.45165	0.2483118	0.21274058	2.7790892	20	10 1.8	20.3
441950 2010 LG_{35}	17.9	X	304.67174	182.01052	148.14309	21.39484	0.1156567	0.39703516	1.8333698	20	6 28.6	19.7
441951 2010 LB_{57}	16.6	X	358.99067	3.27346	284.89495	2.77626	0.2295465	0.19126107	2.9834470	20	7 26.9	19.3
441952 2010 LR_{68}	18.3	X	286.87266	299.71713	109.07807	4.71271	0.5878312	0.18086269	3.0967304	20	6 25.4	23.2
441953 2010 LZ_{69}	16.2	X	270.35171	43.62961	328.98122	15.96095	0.1488286	0.18208247	3.0828848	20	6 22.4	20.8
441954 2010 LY_{72}	16.2	X	305.61469	333.24234	355.49214	7.79880	0.1520818	0.18308680	3.0716002	20	6 11.1	20.2
441955 2010 LL_{78}	16.1	X	4.73906	31.02523	259.26026	12.41326	0.1413552	0.19114609	2.9846433	20	8 1.1	19.7
441956 2010 LM_{86}	16.1	X	246.75770	237.85586	167.73535	13.74204	0.1663132	0.18191333	3.0847955	20	7 2.7	21.0
441957 2010 LD_{100}	17.1	X	302.24103	178.81108	187.36215	12.43592	0.2590326	0.18784459	3.0195131	20	7 8.8	21.0
441958 2010 LR_{101}	16.6	X	276.32892	39.34606	331.39935	0.14562	0.1813375	0.18217589	3.0818307	20	6 21.3	20.7
441959 2010 LR_{116}	15.4	X	26.96815	312.77595	276.89967	17.68730	0.0492741	0.17772657	3.1330535	20	6 13.1	19.6
441960 2010 LV_{117}	17.0	X	334.19578	166.30043	169.62463	9.87758	0.1245381	0.19177025	2.9781637	20	8 11.9	20.5
441961 2010 MN_6	15.5	X	247.59796	59.13340	312.37737	15.49942	0.1862674	0.17411392	3.1762430	20	5 16.9	20.8
441962 2010 MJ_{23}	17.1	X	306.55417	310.44659	31.79977	0.87087	0.1925092	0.18459229	3.0548767	20	6 25.7	20.8
441963 2010 MB_{24}	16.3	X	351.60697	322.26179	328.05884	10.31556	0.0958831	0.18478060	3.0528008	20	7 13.6	20.1
441964 2010 MA_{26}	16.4	X	226.41170	106.35583	293.41218	6.18578	0.1619708	0.17380558	3.1799985	20	6 5.4	21.5
441965 2010 MS_{33}	16.7	X	311.77550	338.30751	347.94480	4.83963	0.2198609	0.18322279	3.0700802	20	6 7.5	20.4
441966 2010 MN_{37}	16.0	X	228.78655	272.72646	174.03991	26.09673	0.2145191	0.18445677	3.0563728	20	7 29.2	21.4
441967 2010 MB_{49}	16.6	X	281.98006	199.87504	174.23802	5.38265	0.1769906	0.18289574	3.0737390	20	7 3.3	20.8
441968 2010 MD_{66}	16.5	X	329.82807	3.39578	325.51998	8.16456	0.0969606	0.18655516	3.0334106	20	7 29.6	20.3
441969 2010 MO_{70}	16.6	X	324.96934	357.92979	311.33161	3.44199	0.2132374	0.18305877	3.0719138	20	6 9.5	20.1
441970 2010 MK_{72}	16.1	X	319.11659	6.44736	324.56460	16.47912	0.1791289	0.18479367	3.0526568	20	7 7.6	19.9
441971 2010 MT_{77}	16.4	X	268.30740	34.03320	348.47481	8.64167	0.1624961	0.18039417	3.1020899	20	6 30.1	20.9
441972 2010 MS_{79}	16.7	X	338.33734	123.72654	200.26491	6.97594	0.2193672	0.18937715	3.0032005	20	7 28.5	19.8
441973 2010 MN_{81}	15.6	X	250.06549	108.25913	303.91323	16.33457	0.2152596	0.17987973	3.1080016	20	7 10.8	20.4
441974 2010 MQ_{92}	16.9	X	309.68347	17.34010	342.69339	8.46162	0.1618924	0.18735568	3.0247639	20	8 1.6	20.5
441975 2010 MX_{93}	15.9	X	344.41307	9.17426	288.44691	17.60228	0.0825664	0.18200680	3.0837392	20	7 9.9	19.8
441976 2010 MW_{108}	16.5	X	240.17247	24.43916	20.52057	6.03628	0.2383654	0.17506263	3.1647574	20	6 18.1	21.7
441977 2010 MJ_{110}	16.5	X	318.93935	145.58061	192.31036	17.75365	0.1792697	0.18571776	3.0425222	20	7 10.6	20.4
441978 2010 MC_{111}	16.4	X	294.63664	178.58621	177.71335	18.30631	0.1599249	0.18221243	3.0814188	20	6 30.1	20.8
441979 2010 ND_{22}	15.7	X	257.92442	303.71186	76.82970	9.60854	0.2218732	0.17582316	3.1556246	20	6 7.2	20.6
441980 2010 NT_{23}	15.7	X	344.92551	71.38681	187.07964	18.15723	0.2051002	0.17502489	3.1652123	20	5 13.1	19.3
441981 2010 NV_{31}	16.3	X	301.14918	89.10824	277.71732	7.89387	0.1625707	0.18527732	3.0473421	20	7 23.7	20.0
441982 2010 NJ_{42}	16.5	X	274.02139	98.58972	331.92293	12.93999	0.2600181	0.18945963	3.0023289	20	8 23.7	20.5
441983 2010 NQ_{42}	16.7	X	285.36865	312.55569	60.86179	7.54574	0.1032965	0.18220467	3.0815062	20	7 20.2	20.9
441984 2010 NX_{43}	15.8	X	253.20135	57.02809	357.54919	21.89525	0.0401975	0.18444881	3.0564607	20	8 17.5	20.4
441985 2010 NP_{53}	16.6	X	316.37743	3.13897	343.36927	11.22601	0.2604977	0.18606507	3.0387349	20	7 11.7	20.0
441986 2010 NG_{63}	15.7	X	236.09812	25.74420	15.15389	10.10321	0.0755508	0.17469033	3.1692522	20	6 25.9	20.5
441987 2010 NY_{65}	21.5	X	45.60038	251.64435	268.00022	11.59126	0.3702259	0.98392419	1.0011403	20	—	—
441988 2010 NS_{71}	15.7	X	254.56844	351.88688	28.76420	11.20527	0.0641401	0.17443034	3.1724007	20	6 23.2	20.4
441989 2010 NA_{81}	15.5	X	302.49820	5.29935	359.99144	16.93453	0.1255295	0.18408958	3.0604356	20	8 6.4	19.6
441990 2010 NC_{84}	15.9	X	340.53202	329.86583	334.72431	14.88600	0.1296277	0.18335100	3.0686489	20	7 14.9	19.7
441991 2010 NO_{84}	16.2	X	348.40295	75.87448	248.22676	9.15783	0.0303049	0.18864260	3.0109915	20	8 16.8	20.5
441992 2010 NG_{86}	16.6	X	358.69526	109.15337	176.23097	21.20699	0.2987711	0.18910165	3.0061167	20	7 22.9	19.5
441993 2010 NT_{102}	16.9	X	312.70981	124.22764	212.82765	12.10475	0.1647191	0.18217605	3.0818289	20	7 1.2	20.8
441994 2010 NX_{103}	16.3	X	244.41911	51.00723	321.26990	5.42186	0.1088233	0.17008901	3.2261549	20	5 25.4	21.2
441995 2010 NU_{106}	16.2	X	277.32616	54.77891	329.56879	8.18907	0.1569022	0.18111264	3.0938805	20	7 15.4	20.5
441996 2010 OY_5	15.7	X	275.28866	94.46130	296.14082	15.55121	0.1496236	0.18139339	3.0906874	20	7 20.2	19.7
441997 2010 OZ_5	15.6	X	299.92710	101.03929	268.46038	10.41823	0.0751763	0.18428350	3.0582883	20	8 4.2	19.8
441998 2010 OK_6	15.4	X	292.36830	305.50589	21.02491	16.84336	0.2396040	0.17540990	3.1605790	20	5 3.5	19.9
441999 2010 OQ_{12}	15.7	X	241.70081	232.13283	203.93216	15.28749	0.2449331	0.17989401	3.1078371	20	7 23.5	20.9
442000 2010 OL_{14}	15.8	X	335.06864	327.07552	356.33065	9.44815	0.0855137	0.18270343	3.0758955	20	8 1.9	19.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
442001 2010 OH_{15}	15.7	X	229.78336	187.12972	234.47077	13.91251	0.1693225	0.17461229	3.1701965	20	7 3.0	20.8
442002 2010 OX_{17}	16.0	X	293.66122	76.01163	316.33652	13.61172	0.1284315	0.18726348	3.0257566	20	8 20.0	19.8
442003 2010 ON_{19}	16.0	X	341.92475	70.25348	248.19628	10.89966	0.1240895	0.18441728	3.0568090	20	7 29.2	19.9
442004 2010 OJ_{20}	15.8	X	233.08367	237.31097	201.59285	11.82299	0.1228446	0.18100079	3.0951550	20	7 31.8	20.6
442005 2010 OY_{23}	16.4	X	288.46529	81.64507	302.93693	14.40817	0.2171416	0.18314944	3.0708998	20	7 20.9	20.2
442006 2010 OQ_{26}	15.4	X	206.25130	169.46002	285.54718	14.94986	0.1667271	0.17574951	3.1565061	20	7 22.3	20.5
442007 2010 OS_{38}	16.5	X	271.48100	22.63409	352.14871	12.86966	0.1290682	0.17631377	3.1497679	20	6 29.3	21.2
442008 2010 OF_{40}	16.2	X	315.01060	325.16037	32.41480	15.68904	0.2146410	0.18596985	3.0397720	20	8 5.3	19.9
442009 2010 OB_{42}	15.6	X	325.99228	354.38430	288.75658	16.32823	0.2390787	0.17411853	3.1761869	20	4 26.4	19.7
442010 2010 OE_{43}	16.1	X	304.54230	34.39765	358.29149	13.31836	0.1365384	0.18990154	2.9976693	20	9 10.0	19.6
442011 2010 OK_{55}	15.7	X	313.47529	42.65814	286.33250	13.47484	0.0561574	0.17607289	3.1526400	20	7 6.5	19.9
442012 2010 OL_{67}	16.2	X	265.68585	150.20514	215.13089	15.79308	0.1180249	0.17239246	3.1973527	20	6 9.9	21.0
442013 2010 OR_{68}	16.3	X	227.69460	313.68967	119.91995	6.24011	0.1542971	0.17550965	3.1593813	20	7 19.2	21.3
442014 2010 OC_{70}	16.7	X	308.03821	127.14415	198.46706	9.52302	0.2300522	0.17781141	3.1320568	20	5 31.3	20.6
442015 2010 OS_{73}	16.3	X	286.75765	241.01458	124.05359	11.94678	0.1786283	0.17824011	3.1270327	20	6 28.4	20.6
442016 2010 OG_{81}	16.5	X	305.52369	22.67632	313.40911	9.37189	0.2140072	0.17852325	3.1237255	20	6 11.8	20.4
442017 2010 OQ_{84}	15.9	X	239.71766	344.91440	83.45689	10.47685	0.1289349	0.17840386	3.1251190	20	7 30.1	20.6
442018 2010 OZ_{87}	16.3	X	305.59304	125.96123	215.13383	17.77756	0.0530940	0.17631761	3.1497222	20	7 7.8	20.9
442019 2010 OO_{94}	15.7	X	320.96201	243.88675	49.44977	25.02038	0.2641099	0.17558268	3.1585053	20	5 5.1	19.3
442020 2010 OB_{103}	16.5	X	314.48879	311.95598	39.64673	8.08970	0.2559790	0.18410735	3.0602386	20	7 14.6	19.9
442021 2010 OC_{104}	15.9	X	259.19671	52.61641	344.84555	10.46764	0.1493307	0.17607657	3.1525961	20	7 11.0	20.6
442022 2010 OO_{104}	15.9	X	243.14645	307.58253	99.26905	10.56094	0.0686507	0.17445501	3.1721016	20	7 12.5	20.4
442023 2010 OV_{115}	16.9	X	119.86423	304.81159	292.06354	11.32015	0.0914510	0.23169481	2.6253780	20	10 24.1	21.1
442024 2010 OK_{116}	16.4	X	325.23088	46.87396	265.23273	8.77936	0.1731167	0.17708887	3.1405704	20	6 19.3	20.1
442025 2010 OG_{117}	16.3	X	259.53345	147.01746	227.85216	8.72038	0.1272531	0.17156121	3.2076722	20	6 13.6	21.0
442026 2010 OZ_{119}	16.1	X	310.90542	328.48390	14.41784	17.36319	0.1549559	0.17936975	3.1138899	20	7 13.1	20.3
442027 2010 OH_{127}	16.5	X	281.94381	81.57036	286.33647	9.26138	0.1753042	0.18390142	3.0625227	20	6 26.2	20.7
442028 2010 PA_{4}	15.5	X	328.13179	348.51438	303.48539	14.21772	0.1979164	0.17313182	3.1882432	20	5 22.2	19.4
442029 2010 PZ_{4}	15.8	X	315.67492	85.62189	249.98347	14.93554	0.1079005	0.17801802	3.1296329	20	7 9.8	20.0
442030 2010 PR_{6}	16.4	X	257.72376	93.84061	313.92061	8.63893	0.2264229	0.17643150	3.1483666	20	7 11.2	21.1
442031 2010 PW_{10}	16.1	X	288.03601	326.37831	34.34915	9.57515	0.1772347	0.17676949	3.1443521	20	6 24.1	20.4
442032 2010 PH_{19}	16.1	X	255.69361	198.76410	195.64632	8.93625	0.0782244	0.17433426	3.1735661	20	7 9.1	20.8
442033 2010 PV_{27}	15.9	X	320.15342	337.37484	5.58160	22.72609	0.1465789	0.18137306	3.0909183	20	8 6.7	20.0
442034 2010 PY_{35}	15.9	X	242.65663	296.88043	110.90497	10.35959	0.0779181	0.17348796	3.1838786	20	7 11.7	20.4
442035 2010 PT_{64}	16.0	X	271.46929	69.39937	330.74950	9.27750	0.0935370	0.19031806	2.9932941	20	8 7.4	20.1
442036 2010 PP_{65}	17.5	X	312.14525	24.29052	281.78858	18.14158	0.0646374	0.38409351	1.8743243	20	6 5.4	19.1
442037 2010 PR_{66}	19.3	X	355.25626	319.53387	292.74957	17.59011	0.6869418	0.19678632	2.9273374	20	2 9.9	21.7
442038 2010 PG_{69}	15.8	X	205.25702	94.28566	6.56844	19.06379	0.2657782	0.17091427	3.2157615	20	7 31.9	21.6
442039 2010 PW_{80}	15.8	X	355.61974	0.55920	318.92339	11.19549	0.0322853	0.18770890	3.0209681	20	8 23.5	19.8
442040 2010 RG_{5}	16.5	X	310.23089	294.41180	5.03427	8.32792	0.1503090	0.17785265	3.1315726	20	5 8.7	20.7
442041 2010 RA_{10}	16.9	X	286.99724	29.39256	359.86784	11.73218	0.2044732	0.18869014	3.0104858	20	7 31.2	20.9
442042 2010 RV_{10}	16.1	X	210.06032	249.07119	196.61449	9.68519	0.0716723	0.18051652	3.1006881	20	7 20.9	20.9
442043 2010 RX_{10}	16.8	X	346.44738	332.57644	336.21535	4.42700	0.2653427	0.18965069	3.0003121	20	7 27.6	19.3
442044 2010 RA_{11}	17.4	X	266.99273	104.45497	327.21066	4.67572	0.1540116	0.19156524	2.9802880	20	8 31.6	21.3
442045 2010 RF_{19}	16.4	X	284.27076	57.83046	293.28159	7.11258	0.2069139	0.18281319	3.0746642	20	6 1.8	20.6
442046 2010 RY_{28}	16.7	X	322.98841	230.67639	192.82160	4.64146	0.0286748	0.21333447	2.7739292	20	11 27.8	20.3
442047 2010 RG_{30}	16.6	X	348.53640	11.79965	345.59678	9.22703	0.0635863	0.20090009	2.8872383	20	10 4.1	20.3
442048 2010 RQ_{32}	16.6	X	310.79460	24.91836	327.20727	9.32491	0.0668694	0.19116369	2.9844601	20	8 3.5	20.4
442049 2010 RY_{47}	16.9	X	342.62812	260.55476	185.71068	12.94649	0.1611389	0.21614802	2.7498049	20	—	—
442050 2010 RK_{48}	16.4	X	265.65543	38.58138	355.53145	4.95712	0.1463501	0.18138884	3.0907391	20	7 14.2	20.8
442051 2010 RY_{49}	15.4	X	195.01860	92.84534	8.30173	15.66857	0.2064640	0.17487522	3.1670180	20	7 24.7	21.0
442052 2010 RF_{53}	16.2	X	333.11272	329.11605	325.70949	5.36789	0.2732189	0.18411974	3.0601013	20	5 27.3	19.3
442053 2010 RC_{57}	16.3	X	265.65877	44.34438	328.06040	9.25772	0.0906581	0.17998926	3.1067405	20	6 23.8	20.8
442054 2010 RP_{58}	15.9	X	286.40983	27.56375	341.99948	14.81156	0.0570386	0.18541786	3.0458020	20	7 26.6	20.2
442055 2010 RB_{60}	15.7	X	24.55879	246.72315	356.92491	8.50853	0.0371472	0.17405549	3.1769537	20	6 26.9	20.1
442056 2010 RB_{61}	16.4	X	279.00726	163.02575	195.80364	12.83928	0.1295807	0.17626185	3.1503865	20	6 16.9	21.0
442057 2010 RC_{62}	15.5	X	289.45510	336.47118	345.00180	15.68739	0.0689576	0.17236582	3.1976821	20	5 17.3	20.3
442058 2010 RN_{107}	16.0	X	249.87610	1.09516	17.10443	12.21095	0.0357133	0.17218490	3.1999216	20	6 17.5	20.8
442059 2010 RN_{110}	16.9	X	311.77452	149.48830	182.51217	1.71790	0.0985985	0.18124113	3.0924181	20	7 3.0	20.8
442060 2010 RS_{111}	15.9	X	110.23720	153.54859	11.51191	9.35073	0.0340487	0.17635043	3.1493314	20	7 8.8	20.6
442061 2010 RF_{113}	16.3	X	345.28028	313.95507	337.75604	9.97842	0.1467925	0.18088071	3.0965247	20	7 2.5	19.9
442062 2010 RA_{115}	16.2	X	347.58893	295.05818	346.29163	9.10180	0.0638857	0.17533919	3.1614286	20	6 23.6	20.4
442063 2010 RB_{124}	16.8	X	347.93619	268.33470	353.34737	3.30286	0.1658415	0.18035450	3.1025448	20	5 22.9	20.2
442064 2010 RU_{134}	16.8	X	330.80053	119.22848	179.21348	10.61328	0.2844895	0.18460420	3.0547452	20	5 28.7	20.0
442065 2010 RH_{136}	16.3	X	289.96258	306.08599	35.53604	9.79047	0.1111255	0.17545659	3.1600182	20	6 10.9	20.6
442066 2010 RQ_{142}	16.3	X	292.49180	4.08514	347.34752	10.07168	0.1033394	0.17982562	3.1086250	20	7 1.1	20.6
442067 2010 RD_{144}	15.9	X	25.37585	46.28716	202.96826	16.62518	0.1596269	0.18004509	3.1060983	20	7 14.1	20.0
442068 2010 RE_{144}	16.2	X	298.06117	352.53963	354.35128	8.80261	0.0684969	0.17909141	3.1171154	20	7 8.3	20.5
442069 2010 RP_{149}	16.5	X	111.76063	220.07842	337.68150	8.86895	0.0080543	0.18975601	2.9992018	20	8 19.1	20.6
442070 2010 RC_{150}	16.5	X	264.31252	36.04012	339.69052	8.71743	0.1181169	0.17967376	3.1103763	20	6 22.2	21.0
442071 2010 RV_{151}	17.6	X	297.75744	311.40315	37.04742	0.97529	0.1804258	0.18179686	3.0861128	20	6 21.9	21.4
442072 2010 RX_{154}	15.8	X	96.17362	117.98982	41.30163	9.08563	0.0313996	0.16855536	3.2456948	20	6 10.8	20.4
442073 2010 RA_{155}	16.8	X	305.79672	244.57376	76.46688	3.49329	0.1833223	0.17714559	3.1399001	20	5 28.3	20.8
442074 2010 RL_{158}	16.2	X	271.32704	45.72508	308.21659	9.45142	0.1166965	0.18016628	3.1047052	20	6 1.9	20.7
442075 2010 RX_{164}	16.4	X	274.29061	87.17275	311.82711	9.06863	0.1486974	0.18709734	3.0275475	20	7 30.9	20.3
442076 2010 RX_{175}	16.3	X	286.12601	38.55328	319.04622	4.55181	0.1611283	0.17982699	3.1086092	20	6 20.3	20.4
442077 2010 RE_{176}	16.5	X	276.89839	22.76422	352.42683	8.88303	0.1079966	0.17982762	3.1086020	20	7 10.5	20.9
442078 2010 RB_{178}	16.6	X	304.64059	286.54079	39.00952	9.92930	0.2656915	0.17957068	3.1115665	20	5 17.7	20.6
442079 2010 RA_{180}	16.1	X	313.13449	169.26036	139.66535	1.89400	0.1686536	0.17950622	3.1123114	20	5 26.2	19.9
442080 2010 SD_{8}	16.7	X	40.84290	254.43509	341.17749	9.29303	0.0968777	0.18419064	3.0593160	20	7 18.7	20.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
442081 2010 SO_{15}	16.0	X	277.99271	53.02475	331.61409	8.54294	0.0974847	0.18595934	3.0398867	20	7 26.2	20.1
442082 2010 SF_{20}	16.5	X	297.21642	129.24066	202.60071	10.67544	0.0970343	0.17617337	3.1514412	20	6 11.8	20.8
442083 2010 SQ_{21}	17.0	X	294.24485	173.02538	185.53663	0.27924	0.1734521	0.18172969	3.0868732	20	7 1.2	20.8
442084 2010 SZ_{33}	16.9	X	289.54013	258.97111	117.02243	2.81928	0.1092906	0.18287438	3.0739783	20	7 27.4	21.0
442085 2010 SE_{37}	16.0	X	266.57141	39.06617	357.78104	16.85569	0.2209731	0.17987589	3.1080458	20	7 11.0	20.8
442086 2010 SR_{38}	17.1	X	22.45649	278.47947	288.08395	17.49031	0.0432201	0.36788637	1.9289764	20	4 17.5	19.4
442087 2010 SF_{39}	16.1	X	254.73677	115.92130	289.36904	8.56778	0.1674347	0.18000883	3.1065154	20	7 11.5	20.5
442088 2010 TL_{1}	16.8	X	270.77188	347.87072	37.52377	5.37333	0.1400301	0.17945314	3.1129252	20	7 9.9	21.3
442089 2010 TO_{8}	16.8	X	326.53354	103.25885	196.34337	9.26997	0.0997605	0.17802211	3.1295850	20	6 12.9	20.9
442090 2010 TT_{14}	16.2	X	225.67764	63.87322	358.72759	8.63467	0.1100650	0.17626106	3.1503959	20	7 9.3	21.1
442091 2010 TQ_{26}	16.4	X	271.76164	17.52451	356.51596	9.31619	0.0795534	0.18056286	3.1001575	20	7 6.3	20.9
442092 2010 TK_{28}	16.5	X	16.75051	56.83747	197.63392	16.90732	0.0989268	0.17933908	3.1142448	20	7 1.9	20.7
442093 2010 TR_{28}	17.1	X	249.12284	222.35619	204.62573	8.21848	0.2212635	0.18271608	3.0757536	20	7 23.9	21.9
442094 2010 TA_{34}	16.6	X	226.78450	42.57307	36.00491	8.94190	0.1212697	0.17884696	3.1199550	20	7 30.9	21.4
442095 2010 TP_{39}	16.8	X	299.47593	177.32593	184.00654	2.38762	0.1501161	0.18368951	3.0648777	20	7 16.1	20.7
442096 2010 TG_{53}	17.4	X	252.00904	307.01612	112.33473	2.42661	0.1509261	0.18082933	3.0971112	20	7 28.5	22.0
442097 2010 TX_{65}	16.3	X	276.54490	158.75765	200.76271	10.40117	0.0970287	0.17853883	3.1235438	20	6 19.3	20.9
442098 2010 TQ_{67}	16.3	X	178.48804	163.94154	345.69669	8.69145	0.0618564	0.19097781	2.9863963	20	9 7.7	20.8
442099 2010 TD_{69}	15.7	X	307.99016	316.02042	356.47138	8.77086	0.0780794	0.17477736	3.1682000	20	6 2.6	20.0
442100 2010 TR_{70}	16.5	X	226.23006	238.04963	202.42620	9.35926	0.0735225	0.18277982	3.0750385	20	8 1.2	21.2
442101 2010 TQ_{75}	16.6	X	293.23425	301.73406	50.07632	1.46777	0.1865812	0.17990080	3.1077589	20	6 18.6	20.7
442102 2010 TR_{75}	17.1	X	303.34895	126.85165	186.58537	4.73925	0.1551967	0.17407876	3.1766707	20	5 19.7	21.3
442103 2010 TW_{84}	16.5	X	349.31899	244.18147	24.13249	9.51862	0.2025212	0.17842739	3.1248442	20	6 1.2	19.8
442104 2010 TQ_{98}	17.2	X	268.97699	218.89846	154.60294	1.70216	0.1730151	0.17842101	3.1249186	20	6 16.9	21.7
442105 2010 TR_{98}	17.8	X	302.65447	324.07862	24.80050	3.39948	0.1641790	0.18295550	3.0730697	20	7 2.9	21.6
442106 2010 TS_{99}	16.6	X	283.18753	341.71762	24.63234	9.07289	0.0962550	0.18031885	3.1029537	20	7 8.8	21.0
442107 2010 TX_{99}	16.1	X	265.61364	171.83171	233.79645	9.95812	0.1373728	0.18104839	3.0946125	20	7 25.9	20.7
442108 2010 TC_{135}	16.3	X	262.28567	258.01085	135.64313	6.45806	0.1927097	0.17917954	3.1160932	20	7 1.8	20.8
442109 2010 TR_{144}	17.1	X	312.82824	99.43173	240.38545	5.65327	0.2970280	0.18274220	3.0754604	20	6 15.9	20.5
442110 2010 TM_{154}	16.1	X	227.02570	92.02692	337.79230	9.08859	0.2160441	0.17614487	3.1517811	20	7 10.3	21.3
442111 2010 TS_{157}	16.3	X	195.02400	71.59027	37.37631	9.82118	0.0496560	0.18108096	3.0942414	20	8 10.0	21.0
442112 2010 TH_{159}	16.2	X	114.02418	138.32649	38.20533	5.67298	0.0795847	0.17810532	3.1286102	20	8 2.6	20.8
442113 2010 TE_{161}	17.1	X	302.58355	205.96329	127.90052	2.03305	0.2106420	0.17953606	3.1119665	20	6 5.2	21.0
442114 2010 TG_{161}	16.8	X	298.37256	262.35978	73.42186	2.62671	0.0246791	0.17478001	3.1681680	20	6 28.2	21.2
442115 2010 TE_{166}	15.7	X	328.76438	41.37183	284.73435	8.11535	0.1019106	0.18040482	3.1019679	20	7 21.2	19.4
442116 2010 TA_{169}	16.2	X	312.57490	78.19507	280.32051	9.46483	0.0713971	0.18927488	3.0042822	20	8 9.7	20.1
442117 2010 TK_{173}	16.6	X	288.63697	6.99834	341.12919	8.73056	0.2209619	0.17652049	3.1473084	20	5 31.4	21.0
442118 2010 TP_{174}	16.4	X	253.58958	14.41766	21.89328	6.97348	0.2803189	0.17402879	3.1772787	20	6 15.4	21.6
442119 2010 TR_{174}	15.6	X	244.17951	10.23374	62.94493	18.04184	0.2306874	0.18017417	3.1046146	20	7 31.5	20.7
442120 2010 TA_{177}	15.7	X	324.38041	85.87269	278.38004	14.33099	0.1318272	0.18924145	3.0046360	20	8 26.8	19.6
442121 2010 TR_{177}	15.9	X	254.02871	84.70705	302.18487	8.51943	0.1402910	0.17623838	3.1506662	20	6 21.2	20.5
442122 2010 TL_{178}	16.6	X	222.32069	65.36366	11.87428	6.63980	0.1268664	0.17939499	3.1135978	20	7 22.9	21.4
442123 2010 TT_{178}	15.9	X	6.04396	238.20687	19.30467	11.10740	0.1254025	0.17685044	3.1433925	20	6 20.9	19.8
442124 2010 TQ_{179}	16.0	X	23.99303	242.31332	15.09537	11.79083	0.0273780	0.17857354	3.1231390	20	7 15.8	20.5
442125 2010 TS_{184}	15.5	X	159.80808	264.36469	218.64916	7.95334	0.0324958	0.17375864	3.1805711	20	7 11.8	20.2
442126 2010 TZ_{185}	16.0	X	191.32487	108.12793	336.94426	8.44133	0.0370505	0.17278494	3.1925090	20	7 3.7	20.7
442127 2010 UL_{11}	17.3	X	308.01958	324.42824	43.62717	4.59720	0.2610564	0.18609552	3.0384034	20	7 24.6	20.7
442128 2010 UY_{26}	16.7	X	262.32868	346.37407	49.60503	5.00463	0.2766332	0.17484754	3.1673522	20	6 24.2	21.6
442129 2010 UA_{27}	15.7	X	305.61858	292.87450	49.69438	13.45514	0.1040740	0.17313980	3.1881454	20	7 7.6	20.1
442130 2010 UK_{31}	16.1	X	221.46554	83.26089	0.13137	15.74036	0.2333626	0.17345614	3.1842679	20	7 23.7	21.6
442131 2010 UB_{33}	16.3	X	289.40006	106.62336	254.70424	7.05886	0.1907933	0.17788633	3.1311773	20	6 24.7	20.4
442132 2010 UE_{33}	16.1	X	312.67066	91.47446	235.91428	15.08539	0.1776132	0.17696689	3.1420134	20	6 16.7	20.1
442133 2010 UX_{37}	18.1	X	317.97773	95.28999	222.31296	20.03919	0.0955754	0.38165052	1.8823143	20	6 29.5	19.9
442134 2010 UW_{42}	16.8	X	324.60030	142.75252	187.38972	4.99038	0.1571093	0.18137112	3.0909404	20	7 14.4	20.4
442135 2010 UK_{69}	15.7	X	286.56126	96.08268	247.82532	9.54812	0.0659314	0.17315295	3.1879838	20	6 16.9	20.1
442136 2010 US_{78}	16.0	X	305.26818	331.63402	353.11818	11.19651	0.1346881	0.17203423	3.2017897	20	6 6.8	20.4
442137 2010 UQ_{82}	16.1	X	279.20895	115.96938	242.02976	10.20795	0.1659348	0.17304381	3.1893242	20	6 10.7	20.5
442138 2010 UR_{82}	16.5	X	299.90446	13.75857	3.11242	4.64659	0.2132270	0.18314791	3.0709169	20	7 30.1	20.1
442139 2010 UW_{92}	15.7	X	288.07095	138.30536	234.68816	15.81612	0.1311654	0.17656131	3.1468233	20	7 13.4	20.2
442140 2010 UE_{93}	16.8	X	263.03205	56.38429	341.62702	5.14581	0.1604089	0.17491627	3.1665225	20	7 13.5	21.3
442141 2010 UX_{94}	16.0	X	282.59251	314.32792	68.54125	10.11074	0.1203658	0.17875373	3.1210398	20	7 26.6	20.3
442142 2010 UJ_{98}	16.2	X	279.24859	43.41063	344.31494	10.17426	0.0834379	0.17867776	3.1219244	20	8 3.5	20.5
442143 2010 UF_{99}	16.7	X	303.71503	126.55300	236.93345	4.26504	0.1713176	0.18009506	3.1055237	20	7 21.7	20.5
442144 2010 VA_{31}	16.4	X	270.14818	179.04292	206.69483	9.11141	0.1410767	0.17489153	3.1668211	20	7 6.9	21.1
442145 2010 VZ_{48}	15.4	X	218.68935	162.01371	267.83878	10.04607	0.0578485	0.17030359	3.2234444	20	7 12.5	20.1
442146 2010 VH_{59}	16.0	X	238.69048	111.85739	313.62635	8.46261	0.0444657	0.17740142	3.1368807	20	8 3.2	20.4
442147 2010 VK_{59}	16.4	X	181.03685	112.27578	347.65382	10.43562	0.0532550	0.16949146	3.2337331	20	7 10.9	21.3
442148 2010 VC_{62}	18.7	X	206.76147	104.63502	261.72320	4.71403	0.2181714	0.36038368	1.9556568	20	3 27.2	21.7
442149 2010 VB_{106}	16.1	X	292.43070	131.84587	221.38361	17.29060	0.2006099	0.17455911	3.1708403	20	6 15.9	20.5
442150 2010 VV_{117}	15.7	X	274.17494	96.18513	278.22912	8.19619	0.1430654	0.17084876	3.2165835	20	6 28.6	20.3
442151 2010 VW_{121}	16.4	X	302.39735	323.59297	25.17796	9.69544	0.1008295	0.17430407	3.1739326	20	7 12.5	20.7
442152 2010 VV_{183}	15.9	X	309.91816	289.01505	79.60548	11.58323	0.1870180	0.18277611	3.0750800	20	8 11.3	19.6
442153 2010 VO_{188}	16.1	X	322.96562	339.65473	343.90737	6.68903	0.0777697	0.17168917	3.2060782	20	7 12.1	20.3
442154 2010 VB_{191}	16.3	X	298.42871	75.72705	278.57669	14.84259	0.2465150	0.17870621	3.1215931	20	6 20.4	20.1
442155 2010 VA_{195}	17.2	X	308.58182	59.93688	242.09501	19.55585	0.0727899	0.37128638	1.9171821	20	5 20.2	18.7
442156 2010 VC_{198}	16.7	X	305.81062	93.27589	280.86477	12.05906	0.2462658	0.18251138	3.0780530	20	7 27.3	20.3
442157 2010 VT_{198}	16.0	X	274.55371	331.64225	52.23633	6.26018	0.1390732	0.17472015	3.1688917	20	7 12.8	20.4
442158 2010 VF_{201}	15.5	X	222.15375	4.25979	84.83672	18.69980	0.1640141	0.17455854	3.1708472	20	8 3.6	20.7
442159 2010 VD_{203}	16.0	X	286.10869	32.56893	351.80708	9.66582	0.0903146	0.18104874	3.0946084	20	8 8.1	20.2
442160 2010 VY_{203}	16.0	X	351.76612	315.04418	355.56729	13.87610	0.1297484	0.18264178	3.0765876	20	8 14.1	19.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
442161 2010 VB_{204}	16.1	X	281.95070	41.25640	328.77122	9.70492	0.1041155	0.17830335	3.1262933	20	7 11.0	20.4
442162 2010 VG_{204}	16.2	X	190.19391	273.51187	233.88018	10.26459	0.0620196	0.18636392	3.0354855	20	9 13.0	20.9
442163 2010 VN_{204}	16.7	X	296.09255	92.95538	267.74330	6.74284	0.1526261	0.18102261	3.0949063	20	7 9.4	20.8
442164 2010 VM_{205}	16.2	X	338.03857	342.57618	343.52969	5.84006	0.0709392	0.18186516	3.0853401	20	8 8.8	20.2
442165 2010 VU_{205}	16.9	X	245.41660	17.65803	3.21463	1.79264	0.1243019	0.16831838	3.2487405	20	6 5.3	21.8
442166 2010 VK_{206}	16.1	X	273.07089	130.54093	251.65405	8.41360	0.0863385	0.17812777	3.1283473	20	7 14.4	20.5
442167 2010 VR_{206}	17.0	X	277.90395	100.45422	276.48590	3.91442	0.1974705	0.17624352	3.1506049	20	6 28.7	21.5
442168 2010 VJ_{210}	16.3	X	297.67903	68.07472	287.43866	7.95772	0.1435857	0.17716603	3.1396586	20	7 6.7	20.4
442169 2010 VG_{212}	16.2	X	281.98366	45.21102	51.24675	10.92016	0.0765276	0.19152648	2.9806901	20	11 4.7	20.1
442170 2010 VE_{220}	16.0	X	282.96489	272.36039	132.05498	11.12289	0.2188817	0.18192453	3.0846688	20	8 7.5	20.1
442171 2010 WV_{11}	16.3	X	242.77431	147.59623	277.74188	12.19489	0.0875329	0.17546137	3.1599609	20	7 30.1	20.9
442172 2010 WB_{50}	17.4	X	237.38255	140.63681	257.08189	18.53332	0.1015055	0.37248102	1.9130807	20	6 24.5	19.4
442173 2010 WV_{51}	14.2	X	277.60707	183.23994	264.74786	7.40267	0.0875071	0.08377707	5.1727236	20	9 25.4	21.1
442174 2010 WY_{61}	16.2	X	260.65183	321.84310	69.71065	6.38640	0.1634698	0.16923487	3.2370009	20	7 1.1	20.9
442175 2010 WR_{74}	15.7	X	319.37038	236.23247	120.49835	11.48046	0.1057612	0.18329304	3.0692957	20	8 18.7	19.6
442176 2010 XQ_{1}	16.0	X	268.28587	211.88542	217.17901	8.01168	0.0828266	0.18250390	3.0781370	20	9 5.9	20.4
442177 2010 XC_{24}	20.0	X	321.45585	298.37020	269.40257	38.95134	0.0632089	0.74966503	1.2001197	20	—	—
442178 2010 XH_{40}	15.0	X	275.00309	287.81337	88.19280	18.32420	0.0909304	0.16911946	3.2384733	20	7 9.1	19.6
442179 2010 XG_{45}	16.4	X	293.78226	253.46963	116.15692	16.19584	0.2676051	0.17829643	3.1263742	20	6 30.4	20.4
442180 2010 XM_{83}	15.8	X	211.49083	261.98052	235.30724	14.53707	0.1885636	0.17728028	3.1383094	20	9 10.6	21.1
442181 2011 AC_{16}	17.8	X	158.50806	119.42473	315.75524	16.59320	0.0649507	0.35048288	1.9923158	20	5 1.9	20.6
442182 2011 AL_{75}	16.9	X	228.47705	39.32630	130.37027	22.69763	0.2212479	0.28542588	2.2845841	20	12 2.7	20.3
442183 2011 CX_{117}	15.2	X	82.33674	98.59209	21.44645	8.71400	0.1196916	0.12437560	3.9747755	20	4 20.3	20.8
442184 2011 DB_{23}	17.8	X	190.56728	121.31638	154.09628	6.14692	0.1953140	0.29224464	2.2489080	20	—	—
442185 2011 EY_{9}	18.6	X	270.46411	224.19017	348.32317	7.26332	0.0563120	0.30348272	2.1930410	20	—	—
442186 2011 EP_{45}	18.4	X	255.00227	68.26176	161.10458	8.00703	0.1300486	0.30134163	2.2034167	20	—	—
442187 2011 EB_{50}	17.8	X	231.48743	105.99914	93.89805	6.98051	0.1972520	0.28848266	2.2684171	20	—	—
442188 2011 ED_{53}	18.3	X	228.90832	168.60462	78.42515	6.01319	0.1616423	0.29482783	2.2357525	20	—	—
442189 2011 ER_{54}	17.6	X	173.81690	141.67326	64.41008	2.96445	0.1611598	0.27321338	2.3521666	20	11 18.7	21.0
442190 2011 EC_{72}	17.9	X	143.03551	228.00697	82.42136	4.45289	0.0458086	0.28997740	2.2606151	20	—	—
442191 2011 EG_{74}	17.8	X	289.09210	231.04385	337.65488	5.93913	0.0565537	0.30571213	2.1823661	20	—	—
442192 2011 EG_{78}	17.9	X	256.94577	144.64590	71.77146	6.03036	0.1221717	0.29888507	2.2154735	20	—	—
442193 2011 EB_{82}	18.3	X	268.60343	228.99182	354.10039	6.45025	0.0783719	0.30754574	2.1736832	20	—	—
442194 2011 FP_{7}	17.8	X	215.60688	47.16064	192.71066	7.32523	0.1216266	0.28862835	2.2676537	20	—	—
442195 2011 FP_{13}	18.2	X	103.14290	231.65747	27.08519	6.00274	0.1142983	0.26190382	2.4194027	20	11 13.3	21.8
442196 2011 FP_{56}	17.9	X	145.06461	165.82955	120.11363	3.89501	0.2327999	0.27511578	2.3413107	20	—	—
442197 2011 FS_{56}	17.2	X	212.83550	152.20206	63.52515	7.39615	0.0865470	0.28090722	2.3090187	20	—	—
442198 2011 FW_{56}	18.2	X	166.10669	49.34467	218.64918	1.93489	0.1919479	0.28061419	2.3106258	20	—	—
442199 2011 FH_{67}	18.1	X	161.61741	187.92653	108.58529	6.54284	0.2085666	0.29047810	2.2580165	20	—	—
442200 2011 FZ_{71}	17.7	X	211.11189	118.79497	125.09585	5.05585	0.1709958	0.29195007	2.2504204	20	—	—
442201 2011 FA_{147}	17.7	X	180.06195	292.22359	318.74759	6.82894	0.1243998	0.28293579	2.2979688	20	—	—
442202 2011 GV_{30}	18.0	X	229.86889	234.07934	35.97414	9.08528	0.0596092	0.30188042	2.2007941	20	—	—
442203 2011 GW_{31}	18.2	X	153.78518	336.27485	300.13078	1.79528	0.2048845	0.27591016	2.3368146	20	—	—
442204 2011 GZ_{47}	18.9	X	252.35831	200.80861	350.73227	1.34229	0.1925567	0.28943067	2.2634610	20	—	—
442205 2011 GL_{52}	17.9	X	232.59516	56.82480	192.28680	2.43757	0.2277617	0.29595668	2.2300638	20	—	—
442206 2011 GM_{67}	17.5	X	258.18550	62.53703	103.09017	6.75859	0.1160679	0.28397897	2.2923377	20	—	—
442207 2011 GX_{69}	18.0	X	241.07924	174.01374	20.65533	3.45854	0.1335343	0.28488600	2.2874695	20	—	—
442208 2011 GL_{72}	18.1	X	232.63550	115.23927	127.32073	8.18474	0.0965726	0.29407015	2.2395912	20	—	—
442209 2011 GJ_{77}	18.1	X	176.98268	225.27348	46.25587	4.18571	0.1401590	0.28264204	2.2995607	20	—	—
442210 2011 GK_{85}	17.3	X	195.47283	47.44854	126.67394	6.06687	0.0851967	0.26615049	2.3935980	20	11 8.9	20.6
442211 2011 HP_{5}	17.8	X	151.52945	95.31755	155.13065	9.07587	0.2520168	0.26888484	2.3773430	20	12 18.7	22.0
442212 2011 HN_{12}	18.2	X	207.29333	67.31491	137.40777	4.26656	0.1774890	0.27466638	2.3438639	20	12 20.4	21.3
442213 2011 HR_{14}	18.2	X	182.32233	70.35933	197.76623	6.90276	0.1493474	0.28419419	2.2911802	20	—	—
442214 2011 HS_{17}	17.9	X	158.03087	342.51767	231.00378	1.71611	0.1490301	0.26640235	2.3920891	20	11 12.4	21.6
442215 2011 HZ_{17}	18.4	X	236.73420	343.14214	228.23188	0.90136	0.0874351	0.28960080	2.2625745	20	—	—
442216 2011 HD_{18}	18.1	X	214.97574	81.13878	172.68255	3.21220	0.1494888	0.29239231	2.2481507	20	—	—
442217 2011 HR_{25}	18.1	X	272.01917	97.68088	99.13114	6.39858	0.0354089	0.29266166	2.2467711	20	—	—
442218 2011 HB_{37}	17.8	X	170.85522	238.31855	68.32825	6.12032	0.1305785	0.29049409	2.2579337	20	—	—
442219 2011 HZ_{48}	17.5	X	147.97155	216.30559	117.31556	7.21776	0.1421346	0.29102511	2.2551862	20	—	—
442220 2011 HT_{63}	17.6	X	140.63310	106.76284	189.54112	6.28655	0.1533645	0.28161837	2.3051299	20	—	—
442221 2011 HB_{100}	18.3	X	185.29304	222.45319	48.82707	7.16968	0.0923960	0.28780155	2.2719946	20	—	—
442222 2011 JA_{29}	17.7	X	187.24099	159.33873	88.98288	6.35900	0.1121517	0.27667208	2.3325224	20	—	—
442223 2011 KX	17.9	X	106.25045	219.02273	104.06109	7.24639	0.2589888	0.26765735	2.3846058	20	—	—
442224 2011 KS_{6}	18.0	X	171.00910	225.73721	60.23962	6.78691	0.1661664	0.28153011	2.3056116	20	—	—
442225 2011 KQ_{7}	17.6	X	169.94131	157.52759	84.96972	3.68922	0.1906314	0.27045914	2.3681085	20	12 27.4	21.1
442226 2011 KG_{26}	17.8	X	164.69515	173.42561	65.47335	6.19814	0.1098383	0.26667964	2.3904306	20	12 22.8	21.3
442227 2011 KA_{31}	17.9	X	141.33189	182.61929	108.22600	2.30107	0.1823814	0.27155738	2.3617195	20	—	—
442228 2011 KH_{31}	17.8	X	151.69361	190.41517	68.86618	5.71936	0.2104117	0.26665393	2.3905843	20	12 30.1	21.7
442229 2011 KP_{44}	18.1	X	247.30029	68.89949	104.22243	3.62523	0.1643332	0.27858766	2.3218178	20	—	—
442230 2011 KW_{44}	18.2	X	161.75984	123.83556	156.53793	2.80668	0.1548769	0.27631481	2.3345326	20	—	—
442231 2011 KJ_{46}	18.1	X	245.95810	130.94219	40.78054	6.02345	0.1287098	0.27436297	2.3455915	20	—	—
442232 2011 LQ_{4}	17.3	X	72.95638	229.96260	114.12106	17.09417	0.2651728	0.25937567	2.4350987	20	—	—
442233 2011 LR_{9}	17.2	X	234.94773	111.15391	129.93510	7.35922	0.0675385	0.28743581	2.2739215	20	—	—
442234 2011 LA_{11}	18.1	X	245.20544	38.03691	139.59374	5.86574	0.1359931	0.27724468	2.3293097	20	—	—
442235 2011 LT_{14}	17.9	X	2.22661	47.76295	84.78318	8.61700	0.0217356	0.29689512	2.2253620	20	—	—
442236 2011 LC_{18}	18.3	X	142.39652	234.77521	30.34181	2.87640	0.2109148	0.26743452	2.3859303	20	12 29.7	22.2
442237 2011 LF_{19}	17.3	X	58.48287	54.35901	283.73033	13.05029	0.2120281	0.23918330	2.5702902	20	—	—
442238 2011 LL_{19}	15.8	X	77.57752	127.64755	147.14978	30.00859	0.1980827	0.23680169	2.5874950	20	11 19.7	20.5
442239 2011 LK_{28}	17.8	X	183.98355	200.28725	12.81611	2.15829	0.1578469	0.26850402	2.3795903	20	12 6.5	21.4
442240 2011 MT_{4}	17.1	X	12.09003	60.72116	314.79166	11.65655	0.2902440	0.22934890	2.6432502	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
442241 2011 MM_6	17.1	X	130.03160	162.07838	118.14502	9.07948	0.2009035	0.26528810	2.3987825	20	—	—
442242 2011 MT_{10}	16.7	X	295.55681	228.91367	128.50588	15.89158	0.1244726	0.21329414	2.7742788	20	7 10.9	20.1
442243 2011 MD_{11}	18.1	X	69.01614	333.15321	15.91150	16.15331	0.4960130	0.24888214	2.5030733	20	—	—
442244 2011 OD_2	17.0	X	127.08464	294.46228	291.80050	12.30350	0.1478425	0.23742514	2.5829634	20	10 20.6	21.4
442245 2011 OA_4	17.3	X	68.06804	159.16233	130.18508	4.62875	0.2378140	0.24019624	2.5630588	20	11 25.8	21.4
442246 2011 OG_4	16.5	X	89.15113	186.08985	135.51739	12.28270	0.2020677	0.25376011	2.4708923	20	—	—
442247 2011 OS_{11}	17.3	X	120.79990	177.55201	129.12992	12.95518	0.1368140	0.26074004	2.4265965	20	—	—
442248 2011 OW_{15}	17.4	X	116.16597	15.53959	282.66819	1.89790	0.1628868	0.25458255	2.4655679	20	—	—
442249 2011 OE_{19}	17.2	X	86.54675	17.94065	310.16676	5.28986	0.1190260	0.25193241	2.4828283	20	—	—
442250 2011 OG_{23}	16.3	X	125.91015	243.47564	333.90119	29.79284	0.2878774	0.23426397	2.6061479	20	10 1.8	21.5
442251 2011 ON_{27}	17.3	X	52.65174	316.81565	50.20881	4.99967	0.2350911	0.25212775	2.4815457	20	—	—
442252 2011 OC_{56}	17.8	X	103.44241	67.37749	237.00624	1.61796	0.1941682	0.25525557	2.4612321	20	—	—
442253 2011 PR_1	18.8	X	50.97980	41.63671	270.87282	7.28848	0.3929416	0.23945541	2.5683425	20	12 22.2	23.1
442254 2011 PL_2	17.0	X	139.72923	276.99227	286.66865	10.28469	0.0811492	0.23084943	2.6317836	20	10 2.3	21.1
442255 2011 PL_3	16.1	X	16.92897	163.52149	115.12203	15.56075	0.0475892	0.21670269	2.7451106	20	8 6.3	19.6
442256 2011 PQ_7	18.3	X	44.11025	186.37987	161.22788	14.76963	0.2667123	0.23963660	2.5670477	20	—	—
442257 2011 PF_8	17.9	X	70.45952	333.17618	321.26605	4.54871	0.2720173	0.23863358	2.5742359	20	12 5.2	22.2
442258 2011 PH_8	16.8	X	48.10577	140.48598	162.91721	13.52337	0.0877853	0.22964286	2.6409940	20	11 2.4	20.5
442259 2011 PW_{13}	16.3	X	71.13348	12.21211	284.73062	14.04884	0.1011396	0.24040111	2.5616025	20	11 20.7	20.1
442260 2011 QH_6	18.1	X	20.16666	65.66254	295.65551	13.31466	0.2210104	0.23932828	2.5692520	20	12 30.2	21.3
442261 2011 QA_{13}	16.1	X	75.83547	330.44815	298.83389	12.09895	0.1516097	0.23277512	2.6172488	20	10 22.8	20.2
442262 2011 QR_{19}	17.3	X	23.67200	39.20167	310.01063	13.91512	0.0582465	0.23628419	2.5912716	20	11 19.4	20.9
442263 2011 QN_{25}	17.6	X	23.54422	333.25104	8.10857	2.58910	0.1871241	0.23156419	2.6263652	20	11 30.1	20.8
442264 2011 QP_{35}	16.5	X	340.41049	257.50863	83.24557	8.69254	0.2811976	0.21685470	2.7438276	20	9 12.8	18.5
442265 2011 QF_{38}	17.1	X	101.83864	359.51391	327.38468	9.96950	0.0753501	0.25514810	2.4619232	20	—	—
442266 2011 QS_{39}	17.3	X	64.48290	123.08281	169.18878	6.99857	0.1660724	0.23663684	2.5886966	20	11 17.9	21.1
442267 2011 QD_{40}	17.9	X	78.35857	42.77563	247.87856	3.63341	0.2729042	0.24261558	2.5459913	20	12 8.4	22.0
442268 2011 QL_{45}	17.1	X	37.44614	128.37298	169.78742	13.22762	0.2380134	0.22960482	2.6412857	20	11 3.8	20.7
442269 2011 QO_{51}	17.1	X	49.78937	53.65004	282.36168	12.26118	0.2880055	0.24029915	2.5623270	20	—	—
442270 2011 QK_{54}	17.3	X	63.61747	54.94804	246.22461	4.04414	0.2382048	0.23666129	2.5885183	20	12 4.3	21.3
442271 2011 QJ_{55}	16.4	X	310.81910	85.40206	242.97470	5.08294	0.0962719	0.20542774	2.8446576	20	6 27.9	20.0
442272 2011 QB_{62}	17.0	X	82.71719	283.35150	335.84736	12.30172	0.2535173	0.23144771	2.6272463	20	10 27.2	21.5
442273 2011 QX_{69}	17.9	X	125.96806	349.48425	340.76924	4.58019	0.1808240	0.26475272	2.4020153	20	—	—
442274 2011 QR_{72}	16.9	X	84.12582	196.33505	147.22131	7.24711	0.2017493	0.25339985	2.4732337	20	—	—
442275 2011 QR_{91}	17.6	X	320.27201	113.14700	291.42603	4.84792	0.1674536	0.22585756	2.6704203	20	10 27.8	20.4
442276 2011 QN_{92}	17.5	X	355.43237	120.50861	303.60423	8.01867	0.1552124	0.24312780	2.5424142	20	—	—
442277 2011 QH_{97}	15.8	X	215.09504	87.69413	262.17822	13.39313	0.1600317	0.17821403	3.1273377	20	3 21.6	21.2
442278 2011 RL	17.8	X	77.09685	286.29635	71.39715	2.19485	0.3038705	0.25180499	2.4836659	20	—	—
442279 2011 RS_1	17.2	X	51.99283	6.99850	285.40643	2.23098	0.1359798	0.22841748	2.6504310	20	10 26.3	20.8
442280 2011 RE_2	17.8	X	8.81019	182.77401	173.43180	3.96270	0.2074915	0.22919859	2.6444057	20	12 1.4	20.7
442281 2011 RL_3	16.6	X	279.84467	334.66301	131.54655	14.38652	0.2069124	0.22220092	2.6996376	20	11 8.8	19.9
442282 2011 RJ_{10}	17.2	X	2.02892	23.99958	318.76274	5.35640	0.0183779	0.22431532	2.6826463	20	10 5.6	20.8
442283 2011 RL_{10}	17.2	X	289.79390	80.61024	317.66907	5.38378	0.0701787	0.21682530	2.7440757	20	9 3.7	20.7
442284 2011 RO_{15}	17.9	X	347.27411	178.46672	209.40225	7.61739	0.1475592	0.23303990	2.6152659	20	11 30.5	20.6
442285 2011 SD_1	17.4	X	320.95597	81.30777	346.39446	13.00038	0.1558487	0.23270779	2.6177536	20	12 4.1	20.3
442286 2011 SD_3	18.2	X	77.63723	104.15893	199.66026	4.21961	0.1594569	0.23927411	2.5696398	20	12 13.9	22.1
442287 2011 SK_7	16.5	X	0.17307	9.61901	11.41740	12.69332	0.1804016	0.22918931	2.6444771	20	12 14.4	19.7
442288 2011 SX_8	16.6	X	326.73649	166.24127	179.75955	10.02854	0.1845640	0.21049148	2.7988505	20	8 10.0	19.5
442289 2011 SD_{12}	16.6	X	1.03942	190.92633	172.91532	15.01056	0.1869583	0.22892869	2.6464838	20	11 27.4	19.8
442290 2011 SA_{15}	17.5	X	91.28055	90.51169	282.90730	5.09168	0.1336168	0.26093324	2.4253986	20	—	—
442291 2011 SZ_{20}	17.2	X	353.96226	110.52023	298.28050	11.69190	0.2577859	0.23243603	2.6197937	20	—	—
442292 2011 SB_{21}	16.6	X	95.94701	2.37516	289.48487	11.59912	0.2489304	0.24047856	2.5610524	20	12 22.0	21.0
442293 2011 SL_{23}	17.1	X	6.78659	350.78849	7.19326	12.90143	0.1482129	0.22563984	2.6721379	20	11 15.3	20.4
442294 2011 SU_{24}	16.3	X	178.42275	254.28296	165.84820	18.41994	0.2410790	0.17805714	3.1291745	20	5 21.9	22.1
442295 2011 SY_{25}	17.3	X	124.55638	316.18001	355.97493	5.88065	0.1277095	0.25325284	2.4741907	20	—	—
442296 2011 SJ_{30}	17.8	X	56.42513	176.60614	180.61552	3.87836	0.1743382	0.23863087	2.5742554	20	—	—
442297 2011 SJ_{36}	17.1	X	24.20417	155.98947	182.81792	10.96168	0.1781075	0.22639150	2.6662199	20	11 27.2	20.6
442298 2011 SQ_{40}	16.4	X	276.64242	149.13899	265.07161	7.73339	0.0815875	0.21045685	2.7991575	20	8 31.7	20.2
442299 2011 SR_{45}	17.8	X	119.15415	20.56208	257.40425	3.02365	0.1184110	0.24401751	2.5362305	20	12 20.8	21.6
442300 2011 SX_{51}	17.1	X	21.92458	137.10232	209.50218	11.20914	0.2912804	0.22758236	2.6569109	20	12 19.8	20.7
442301 2011 SF_{54}	16.0	X	271.83309	138.57985	132.51742	6.16547	0.1105752	0.16968021	3.2313345	20	2 25.1	20.7
442302 2011 SB_{57}	16.6	X	291.97987	110.03971	175.97231	10.48237	0.0286725	0.17731918	3.1378504	20	4 18.8	21.0
442303 2011 SO_{57}	17.4	X	51.72083	157.48491	208.30172	3.67548	0.2384291	0.23762114	2.5815428	20	—	—
442304 2011 SS_{59}	17.9	X	25.32084	61.24124	301.85960	2.62660	0.1845553	0.23627788	2.5913178	20	—	—
442305 2011 SF_{60}	17.3	X	51.66254	24.46743	319.97680	14.34922	0.1445446	0.24033675	2.5620598	20	—	—
442306 2011 SN_{62}	16.7	X	54.27070	42.25253	257.95272	12.37581	0.1476489	0.23220868	2.6215034	20	11 9.9	20.4
442307 2011 SC_{67}	16.8	X	348.70489	33.17251	343.91215	3.90216	0.1585512	0.22241377	2.6979150	20	11 13.6	19.7
442308 2011 SC_{72}	16.7	X	60.32502	323.44288	337.76185	10.70979	0.1896125	0.23328732	2.6134165	20	11 22.0	20.7
442309 2011 SC_{73}	17.4	X	84.86069	308.74476	346.07581	8.45371	0.1582633	0.23802224	2.5786418	20	12 8.5	21.5
442310 2011 SX_{78}	17.5	X	42.60250	127.33047	184.43925	3.20319	0.1425710	0.22866331	2.6485310	20	11 11.1	20.9
442311 2011 SK_{79}	17.1	X	43.19771	122.84109	180.63718	13.19188	0.1908030	0.22788832	2.6545323	20	11 9.9	20.8
442312 2011 SL_{96}	16.4	X	2.88030	54.56340	317.28934	12.50987	0.1912853	0.22508493	2.6765279	20	12 7.4	19.6
442313 2011 SG_{97}	17.5	X	338.39957	31.92184	21.89621	9.48746	0.2390723	0.22865908	2.6485636	20	12 29.2	20.0
442314 2011 SS_{100}	17.1	X	74.47867	172.54579	60.66981	1.03623	0.0100932	0.21004322	2.8028311	20	8 18.8	21.0
442315 2011 SO_{105}	18.0	X	59.85109	16.20918	348.78894	7.67329	0.2804012	0.24334648	2.5408908	20	—	—
442316 2011 SM_{111}	16.6	X	334.98635	57.61411	265.20234	3.54310	0.1615203	0.21076720	2.7964090	20	7 26.8	19.5
442317 2011 SA_{115}	17.0	X	342.25550	224.45223	192.51350	12.13350	0.2863658	0.22937324	2.6430632	20	—	—
442318 2011 SW_{118}	16.5	X	71.94732	114.70002	113.22704	11.48896	0.0455469	0.20184133	2.8782554	20	8 14.2	20.5
442319 2011 SF_{121}	17.7	X	350.18188	43.59407	9.97674	8.70243	0.2634131	0.23201488	2.6229629	20	—	—
442320 2011 SH_{126}	16.8	X	322.78185	333.06277	38.10128	4.55698	0.0811646	0.21390556	2.7689897	20	9 19.7	20.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
442321 2011 SA_{129}	17.9	X	72.33787	147.97507	157.35553	4.42867	0.2533484	0.23514739	2.5996164	20	12 18.2	22.1
442322 2011 SZ_{129}	17.3	X	305.07348	350.39535	42.39686	5.45297	0.1296537	0.21290394	2.7776674	20	9 16.6	20.5
442323 2011 SM_{132}	16.9	X	29.73909	275.54422	40.74547	11.71746	0.2052133	0.21985464	2.7188106	20	11 6.2	20.3
442324 2011 SP_{133}	17.6	X	61.85473	264.69073	28.32121	13.67125	0.3168602	0.22955638	2.6416573	20	11 26.7	22.1
442325 2011 SY_{133}	17.3	X	10.10318	256.95307	149.11728	2.68626	0.2125550	0.23561259	2.5961935	20	—	—
442326 2011 SR_{134}	16.9	X	10.46743	212.34409	176.75799	29.37280	0.2268932	0.23388461	2.6089652	20	—	—
442327 2011 SO_{144}	16.8	X	248.33282	60.67225	20.90746	8.86792	0.1508022	0.21030919	2.8004676	20	8 27.9	20.9
442328 2011 SQ_{144}	17.5	X	320.23806	20.42204	32.29029	3.18944	0.1300119	0.22600192	2.6692831	20	11 11.2	20.2
442329 2011 SY_{159}	17.2	X	27.86391	59.16543	295.69149	4.15610	0.1489275	0.23164826	2.6257297	20	12 18.1	20.5
442330 2011 SY_{162}	17.0	X	5.49796	90.71888	275.75423	5.16382	0.0553832	0.22576989	2.6711116	20	11 16.2	20.5
442331 2011 SD_{163}	16.3	X	61.65984	48.96359	220.79378	13.61968	0.1000882	0.21577822	2.7529457	20	9 29.8	20.2
442332 2011 SK_{166}	17.2	X	10.94745	127.51905	218.18692	4.23510	0.1262192	0.22145486	2.7056975	20	11 5.8	20.4
442333 2011 SX_{173}	17.6	X	52.06662	88.34377	264.27166	4.35675	0.2854333	0.24064119	2.5598984	20	—	—
442334 2011 SU_{174}	17.2	X	35.67483	185.04765	184.31530	8.58001	0.1509600	0.23722737	2.5843988	20	—	—
442335 2011 SJ_{175}	17.0	X	359.90174	341.63041	19.01779	6.88589	0.2056008	0.22520678	2.6755623	20	11 17.9	19.7
442336 2011 SN_{177}	17.5	X	32.27199	195.33878	154.51522	5.05426	0.1913669	0.23104888	2.6302688	20	12 23.5	21.1
442337 2011 SN_{178}	17.7	X	68.17882	18.76946	290.43812	3.16543	0.1911461	0.23336073	2.6128684	20	12 12.8	21.7
442338 2011 SK_{179}	16.3	X	215.50507	117.78840	6.58052	5.96613	0.0352300	0.21241688	2.7819118	20	9 24.3	20.2
442339 2011 SR_{179}	17.1	X	333.95508	165.81847	207.40223	7.95236	0.1955708	0.21720187	2.7409030	20	10 9.8	19.5
442340 2011 SP_{183}	16.8	X	275.78253	14.82976	105.53391	2.75740	0.0558216	0.22814255	2.6525599	20	12 7.3	19.9
442341 2011 SB_{193}	17.9	X	51.55074	133.81748	197.80455	6.42631	0.0930520	0.23518991	2.5993031	20	12 11.4	21.5
442342 2011 SR_{202}	17.7	X	55.38334	117.78763	194.83390	12.20248	0.1935728	0.23588232	2.5942139	20	12 5.7	21.7
442343 2011 SR_{207}	17.8	X	359.25519	36.22853	339.91452	6.02965	0.1624466	0.23264283	2.6182409	20	12 5.1	20.8
442344 2011 SW_{207}	17.7	X	22.10162	25.56286	344.90514	8.61236	0.1734485	0.23788096	2.5796627	20	—	—
442345 2011 SZ_{207}	17.6	X	95.21485	58.76232	270.83355	1.67569	0.2046208	0.25327790	2.4740275	20	—	—
442346 2011 SW_{208}	17.8	X	25.33950	241.23680	122.07065	3.31498	0.2378417	0.23227604	2.6209965	20	—	—
442347 2011 SF_{209}	17.5	X	49.05890	256.36576	79.81501	5.08960	0.2421430	0.23742768	2.5829449	20	—	—
442348 2011 ST_{212}	17.4	X	81.27814	5.28652	309.45199	14.18219	0.1048481	0.24180638	2.5516683	20	12 27.9	21.2
442349 2011 SH_{221}	18.0	X	30.20723	220.62169	144.52207	4.72800	0.2413971	0.23617079	2.5921010	20	—	—
442350 2011 SJ_{224}	16.3	X	180.32925	127.73413	18.67692	12.55553	0.0942769	0.20346844	2.8628901	20	9 10.2	20.7
442351 2011 SF_{228}	17.8	X	68.34199	10.21966	299.74809	4.57809	0.1805841	0.23303502	2.6153024	20	12 12.7	21.8
442352 2011 SP_{228}	16.9	X	51.28128	324.17245	358.96927	13.65093	0.0827850	0.22780092	2.6552111	20	11 22.7	20.8
442353 2011 SF_{229}	17.6	X	53.12742	22.95211	299.72206	2.61165	0.2106550	0.22933121	2.6433862	20	12 15.5	21.5
442354 2011 SW_{229}	16.7	X	19.10199	344.65718	4.37606	13.77862	0.1841688	0.23227033	2.6210394	20	11 30.6	20.2
442355 2011 SE_{230}	16.8	X	307.42255	24.36341	37.23812	3.01567	0.2223645	0.22176569	2.7031687	20	10 22.6	19.1
442356 2011 SG_{230}	18.1	X	10.18678	270.43166	132.11930	4.70402	0.2770205	0.23657173	2.5891715	20	—	—
442357 2011 SV_{230}	17.0	X	281.60297	202.43365	226.79842	3.82598	0.0849267	0.21310130	2.7759522	20	9 30.9	20.5
442358 2011 SL_{231}	16.6	X	61.77021	326.58721	356.22880	14.32289	0.1055317	0.23188292	2.6239580	20	12 11.3	20.6
442359 2011 SC_{233}	16.7	X	16.14769	219.15503	182.14675	5.58157	0.2654175	0.23495050	2.6010686	20	—	—
442360 2011 SR_{233}	18.4	X	353.50063	172.87520	241.55455	4.02788	0.2781011	0.23191024	2.6237519	20	—	—
442361 2011 SD_{234}	16.9	X	341.35706	93.70961	318.81215	6.55668	0.1913108	0.23109936	2.6298858	20	12 28.5	19.5
442362 2011 ST_{241}	17.5	X	320.32826	235.12286	158.36887	3.75191	0.1248651	0.22177560	2.7030882	20	10 15.9	20.4
442363 2011 SN_{245}	17.6	X	18.95264	171.94905	191.84405	7.62123	0.2045866	0.23225045	2.6211890	20	12 25.9	21.0
442364 2011 SD_{250}	18.2	X	8.43414	132.27122	271.36519	3.44956	0.2514445	0.23789574	2.5795559	20	—	—
442365 2011 SJ_{250}	17.4	X	44.23352	104.38492	226.96508	7.09815	0.2527423	0.23310696	2.6147644	20	12 22.4	21.3
442366 2011 SP_{250}	17.4	X	333.65442	15.93941	17.10127	4.43927	0.1554083	0.22429759	2.6827877	20	11 8.1	20.0
442367 2011 SD_{256}	17.9	X	37.88067	175.80386	171.47309	2.68496	0.2185620	0.23198023	2.6232242	20	12 30.6	21.5
442368 2011 SO_{256}	17.5	X	60.60754	291.45178	354.99396	3.56145	0.2178566	0.23006948	2.6377282	20	11 8.8	21.3
442369 2011 SB_{257}	17.6	X	272.09399	103.26719	315.97371	4.32504	0.1593743	0.20929020	2.8095501	20	8 23.4	21.2
442370 2011 SJ_{259}	16.1	X	77.78180	30.36941	224.72250	9.01992	0.0758474	0.21219855	2.7838198	20	9 27.3	20.2
442371 2011 SS_{272}	17.5	X	106.70395	324.56499	80.20925	3.50531	0.1774954	0.27079967	2.3661229	20	2 13.3	20.3
442372 2011 SF_{273}	16.8	X	98.01930	171.58710	129.42610	8.00913	0.1864560	0.24255863	2.5463899	20	12 31.3	21.0
442373 2011 SW_{273}	16.7	X	260.75948	301.64758	138.94293	8.49770	0.2070992	0.21201935	2.7853881	20	8 31.2	20.4
442374 2011 TS_{2}	17.5	X	9.44760	69.95019	336.91538	4.51404	0.2264611	0.23607048	2.5928353	20	—	—
442375 2011 TY_{2}	18.1	X	349.70208	321.82060	54.53717	2.97149	0.1473516	0.22452969	2.6809385	20	11 15.3	21.0
442376 2011 TJ_{3}	17.4	X	343.97387	351.98618	84.45352	5.45667	0.2787146	0.23235544	2.6203994	20	—	—
442377 2011 TB_{5}	17.4	X	8.45859	114.71642	271.93481	5.72670	0.2943165	0.23077022	2.6323858	20	—	—
442378 2011 TK_{17}	17.1	X	303.19576	313.91903	76.33173	6.04854	0.1274751	0.21293266	2.7774177	20	9 10.9	20.4
442379 2011 UQ_{1}	16.7	X	354.97763	108.04906	226.33764	11.44165	0.1164308	0.21288420	2.7778391	20	9 16.9	20.2
442380 2011 UH_{3}	17.6	X	330.84213	348.85974	52.86736	4.81002	0.3049946	0.22229796	2.6988520	20	11 23.3	19.2
442381 2011 UA_{9}	17.0	X	50.71821	121.37651	220.40797	3.63507	0.3322666	0.23480395	2.6021507	20	—	—
442382 2011 UF_{13}	16.5	X	249.45587	268.65689	209.83730	8.66269	0.1475091	0.21552233	2.7551243	20	10 12.7	20.2
442383 2011 US_{16}	16.9	X	303.26730	21.97453	49.31129	4.22383	0.1818116	0.21700563	2.7425552	20	10 30.9	19.5
442384 2011 UA_{19}	16.5	X	104.78598	75.51719	88.91542	6.57424	0.1046111	0.18993190	2.9973499	20	7 9.4	21.0
442385 2011 UD_{22}	16.8	X	290.37402	99.14337	320.70754	5.28220	0.0149229	0.21676520	2.7445828	20	10 8.5	20.4
442386 2011 UB_{24}	17.6	X	342.77645	108.35094	313.84308	1.35002	0.2010706	0.22929322	2.6436781	20	—	—
442387 2011 UR_{25}	16.8	X	326.94892	8.23175	47.28912	5.52112	0.0998071	0.22325211	2.6911568	20	11 25.6	19.9
442388 2011 UX_{26}	17.6	X	1.26513	255.52835	134.36860	1.46143	0.0707341	0.22717991	2.6600478	20	12 14.0	20.9
442389 2011 UH_{27}	17.2	X	348.70278	327.59393	63.40775	5.47078	0.0830407	0.22345688	2.6895125	20	11 27.0	20.1
442390 2011 UJ_{30}	16.9	X	298.04452	186.22974	223.27802	9.79286	0.1234818	0.20969793	2.8059071	20	9 22.0	20.4
442391 2011 UY_{35}	17.4	X	344.30774	322.48703	59.32614	5.97839	0.1642050	0.21797952	2.7343803	20	11 12.9	20.2
442392 2011 UL_{37}	17.1	X	41.35401	293.28392	51.11949	6.43854	0.2941717	0.23395345	2.6084534	20	—	—
442393 2011 UT_{39}	17.0	X	43.28135	318.93634	22.71215	13.48480	0.1607730	0.23248305	2.6194404	20	12 21.7	20.9
442394 2011 UR_{41}	16.8	X	67.05903	244.37556	25.23132	10.71356	0.1006348	0.21654534	2.7464402	20	10 10.6	20.5
442395 2011 UC_{42}	16.8	X	61.27454	292.39407	26.94137	14.74731	0.0756292	0.22953082	2.6418534	20	11 30.4	20.6
442396 2011 UK_{44}	16.7	X	272.93270	212.16959	215.77749	7.04116	0.2036010	0.20960865	2.8067038	20	8 26.9	20.5
442397 2011 UV_{44}	17.1	X	335.77449	9.66380	351.97135	2.95857	0.1050711	0.21438357	2.7648722	20	9 25.5	20.3
442398 2011 UA_{48}	17.3	X	348.67274	176.96302	226.62439	7.40274	0.1384019	0.22658084	2.6647344	20	12 20.3	20.3
442399 2011 UL_{49}	17.2	X	311.64820	186.88590	214.76097	4.25781	0.1057156	0.21415001	2.7668821	20	10 9.2	20.3
442400 2011 UQ_{54}	17.3	X	359.36876	331.07139	46.26905	2.41074	0.0999550	0.22083885	2.7107267	20	11 26.2	20.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
442401 2011 UP_{56}	16.5	X	348.44005	157.73048	236.76189	6.98047	0.1295749	0.22282900	2.6945624	20	12 5.8	19.6
442402 2011 UF_{57}	17.3	X	20.15575	287.68335	73.65274	3.48084	0.2985839	0.23005495	2.6378392	20	—	—
442403 2011 UQ_{58}	17.2	X	308.49752	186.61290	190.26184	4.19269	0.0857770	0.20914890	2.8108154	20	8 31.4	20.6
442404 2011 UG_{66}	17.1	X	99.23580	193.17073	73.19519	7.76549	0.0526353	0.22269524	2.6956413	20	11 9.3	20.9
442405 2011 UO_{67}	17.9	X	71.86544	182.43422	148.95535	3.83476	0.2423934	0.23964529	2.5669857	20	—	—
442406 2011 UT_{72}	17.2	X	325.05365	196.75724	225.15102	5.01797	0.0899305	0.22307657	2.6925684	20	12 1.7	20.3
442407 2011 UH_{76}	17.2	X	5.86971	26.82512	315.80951	3.46503	0.0855923	0.21558109	2.7546237	20	10 16.5	20.7
442408 2011 UG_{81}	17.2	X	356.21351	137.11200	209.06306	3.49971	0.1185728	0.21324286	2.7747235	20	10 9.8	20.2
442409 2011 UJ_{81}	16.8	X	348.92327	258.94452	63.34843	2.88379	0.0950772	0.20280019	2.8691757	20	8 23.8	20.1
442410 2011 UF_{88}	16.0	X	304.69946	97.20013	237.88689	11.95947	0.0789848	0.18742654	3.0240015	20	6 28.2	20.1
442411 2011 UL_{98}	15.9	X	351.01925	350.75221	274.53767	8.05073	0.0785470	0.18435884	3.0574549	20	6 6.6	19.8
442412 2011 UL_{102}	17.2	X	22.08187	309.25942	23.98704	6.60835	0.0701751	0.21553616	2.7550065	20	10 27.1	20.8
442413 2011 UJ_{104}	17.1	X	59.36941	309.27310	2.44110	7.58289	0.1676056	0.22945758	2.6424155	20	12 2.1	21.0
442414 2011 UZ_{106}	16.6	X	31.38640	52.87390	313.15984	16.55373	0.1323272	0.23330826	2.6132601	20	—	—
442415 2011 UH_{108}	16.3	X	28.21500	300.14484	46.32144	15.11618	0.1470730	0.22662490	2.6643890	20	12 3.9	19.8
442416 2011 UV_{111}	16.5	X	315.80638	124.91207	263.37892	5.48326	0.0145003	0.21478866	2.7613947	20	9 30.8	20.2
442417 2011 UX_{112}	16.3	X	240.16837	120.68627	230.03653	12.69754	0.1646074	0.17558980	3.1584198	20	4 18.9	21.4
442418 2011 UP_{117}	17.7	X	355.99570	164.57956	261.33301	4.66181	0.3042798	0.23247654	2.6194893	20	—	—
442419 2011 US_{117}	17.6	X	0.42570	182.89079	211.12159	13.42064	0.1421185	0.23205080	2.6226923	20	12 27.5	20.9
442420 2011 UR_{120}	16.0	X	93.85264	12.61572	219.92051	11.17991	0.1084438	0.21028932	2.8006439	20	9 20.6	20.2
442421 2011 UN_{125}	16.9	X	121.25377	202.50717	17.93371	12.42543	0.0951517	0.21493120	2.7601737	20	10 8.2	20.9
442422 2011 UU_{125}	16.0	X	100.58025	294.85165	4.93968	14.24742	0.1169937	0.23609572	2.5926505	20	12 28.5	20.2
442423 2011 UE_{126}	16.6	X	6.20633	38.62044	332.73361	5.39876	0.0209397	0.22149034	2.7054085	20	11 17.9	20.2
442424 2011 UA_{129}	16.6	X	36.39104	244.17077	62.27023	9.84217	0.1291869	0.21331476	2.7741000	20	10 24.1	20.2
442425 2011 UE_{130}	17.2	X	32.40905	256.64828	44.44102	5.65196	0.1537945	0.21689898	2.7434542	20	10 14.1	20.6
442426 2011 US_{130}	16.7	X	348.75639	123.98478	301.22416	14.10138	0.1168432	0.23488540	2.6015491	20	—	—
442427 2011 UV_{131}	17.5	X	45.22622	25.67842	341.15246	5.55436	0.2214564	0.23649908	2.5897017	20	—	—
442428 2011 UW_{135}	18.0	X	33.63039	159.00270	192.00901	2.00913	0.2224521	0.23067214	2.6331319	20	12 30.7	21.5
442429 2011 UX_{138}	17.2	X	354.66418	339.51112	29.82264	3.18998	0.0890910	0.21875388	2.7279236	20	11 6.4	20.5
442430 2011 UE_{139}	17.6	X	333.66314	23.58079	9.23104	2.61620	0.0892184	0.21721998	2.7407507	20	11 3.9	20.8
442431 2011 UJ_{142}	17.2	X	304.74650	310.10677	121.07744	3.22629	0.1374616	0.22065297	2.7122489	20	11 8.5	20.0
442432 2011 UL_{144}	17.6	X	17.04931	331.91762	8.30683	6.68556	0.1598011	0.21640702	2.7476104	20	11 9.5	20.9
442433 2011 UV_{144}	14.8	X	144.09225	197.33077	249.27612	25.80355	0.0975512	0.17308932	3.1887652	20	5 14.7	19.8
442434 2011 UV_{148}	17.2	X	28.79958	103.56267	237.28513	1.77638	0.1991173	0.22475769	2.6791252	20	12 7.3	20.4
442435 2011 UC_{150}	17.3	X	36.06106	106.28189	214.83784	11.74963	0.1844620	0.22777205	2.6554355	20	11 20.7	20.8
442436 2011 UE_{157}	17.2	X	267.00770	341.35820	80.25407	3.28831	0.1383388	0.20140238	2.8824359	20	8 24.0	21.0
442437 2011 US_{157}	17.7	X	27.34840	260.51648	116.60232	2.36815	0.2227189	0.23111633	2.6297570	20	—	—
442438 2011 UC_{158}	15.7	X	267.20052	79.81115	239.50324	31.48313	0.0557709	0.16944060	3.2343802	20	4 22.1	20.6
442439 2011 UU_{159}	17.0	X	27.90140	292.90639	55.95949	6.23361	0.2922073	0.23096110	2.6309352	20	12 31.4	20.6
442440 2011 UO_{162}	17.1	X	26.47963	250.86500	90.15597	5.91473	0.1803056	0.22085280	2.7106125	20	12 1.0	20.5
442441 2011 UC_{164}	17.6	X	353.56164	197.86019	180.11512	10.17852	0.2890256	0.22385303	2.6863385	20	12 15.4	20.3
442442 2011 UD_{169}	17.2	X	66.36443	149.38895	169.81964	5.89531	0.4512020	0.23487697	2.6016114	20	—	—
442443 2011 UZ_{186}	17.3	X	86.96907	185.72451	126.24327	5.72974	0.2976642	0.23936302	2.5690034	20	—	—
442444 2011 UK_{189}	17.7	X	38.80537	286.41708	76.33440	5.56066	0.2688947	0.23508547	2.6000729	20	—	—
442445 2011 UR_{194}	17.4	X	53.30971	67.46406	266.61565	3.27182	0.1519670	0.23512420	2.5997874	20	12 23.8	21.1
442446 2011 UX_{194}	16.3	X	194.08715	211.38744	193.23510	13.21132	0.1851912	0.17831537	3.1261527	20	5 14.4	21.6
442447 2011 UG_{197}	16.4	X	77.45276	187.83232	29.41974	10.66420	0.0387812	0.19277874	2.9677681	20	8 8.4	20.7
442448 2011 UT_{200}	16.2	X	22.02455	276.22360	71.60621	13.47663	0.1169877	0.22383868	2.6864533	20	11 25.1	19.6
442449 2011 UR_{208}	17.4	X	16.75463	39.30053	280.48754	3.12844	0.2079753	0.21832171	2.7315224	20	10 20.7	20.4
442450 2011 UQ_{228}	17.7	X	253.70541	252.31996	162.17182	2.34968	0.0566247	0.20285295	2.8686782	20	8 7.7	21.7
442451 2011 US_{228}	17.6	X	72.30425	131.43218	180.05023	3.72375	0.1083896	0.23183786	2.6242980	20	12 11.3	21.4
442452 2011 UV_{233}	16.7	X	54.50586	353.54099	9.08426	13.01924	0.1696782	0.23815492	2.5776840	20	—	—
442453 2011 UX_{234}	17.0	X	41.32640	319.92655	332.31731	2.74276	0.1593602	0.21274643	2.7790383	20	10 12.6	20.6
442454 2011 UZ_{235}	17.1	X	199.48220	212.34312	231.31586	11.01997	0.0594293	0.18943770	3.0025605	20	7 7.8	21.7
442455 2011 UP_{243}	18.2	X	16.92097	335.88270	67.32063	0.36997	0.2050815	0.23356104	2.6113743	20	—	—
442456 2011 UY_{246}	16.1	X	300.90846	9.91533	56.82779	10.65803	0.0326332	0.21488514	2.7605681	20	11 3.1	19.7
442457 2011 UY_{253}	17.4	X	31.52800	311.82750	72.50335	5.98862	0.2230375	0.23678976	2.5875819	20	—	—
442458 2011 UP_{254}	17.0	X	317.92377	171.74404	207.31161	8.44798	0.1554340	0.21117398	2.7928168	20	9 12.4	20.1
442459 2011 UU_{255}	16.7	X	352.15652	283.34930	119.83696	12.76246	0.1917752	0.23147479	2.6270414	20	—	—
442460 2011 UW_{263}	16.3	X	356.18961	307.32391	77.44028	12.32761	0.1343153	0.22450384	2.6811444	20	12 6.6	19.4
442461 2011 UJ_{266}	17.2	X	52.66098	283.27676	76.29715	3.69644	0.2913674	0.23611554	2.5925054	20	—	—
442462 2011 UO_{268}	16.5	X	354.64030	117.38921	232.99286	12.73112	0.0966157	0.21316872	2.7753669	20	10 8.2	19.9
442463 2011 UJ_{274}	17.0	X	264.45210	183.61890	256.97853	4.70679	0.0666236	0.21221912	2.7836398	20	9 22.9	20.8
442464 2011 US_{274}	17.6	X	24.01985	63.23693	312.03734	2.37081	0.2104512	0.23171972	2.6251899	20	—	—
442465 2011 UA_{281}	15.6	X	188.40466	309.57479	80.81894	20.18976	0.1520978	0.17174238	3.2054160	20	4 29.7	21.1
442466 2011 UW_{285}	17.1	X	356.44037	187.55864	116.29252	3.19247	0.0506054	0.20256411	2.8714046	20	8 8.1	20.8
442467 2011 UY_{290}	17.6	X	327.17990	278.31971	145.48388	5.08939	0.1578555	0.22782386	2.6550329	20	12 12.3	20.3
442468 2011 UK_{296}	16.8	X	22.52794	271.30489	46.85577	8.65221	0.1925703	0.21734404	2.7397077	20	10 27.9	20.1
442469 2011 UZ_{297}	17.0	X	242.69172	340.51842	78.10065	3.12646	0.0961680	0.19595295	2.9356313	20	7 25.2	21.2
442470 2011 UX_{298}	16.2	X	59.30961	146.50541	55.67455	11.70541	0.0294893	0.18123593	3.0924773	20	6 18.2	20.6
442471 2011 UM_{300}	16.5	X	152.96749	75.19047	69.49184	11.75611	0.0400196	0.19021366	2.9943892	20	8 6.5	21.0
442472 2011 UY_{303}	17.1	X	140.08798	109.22329	90.63651	5.79797	0.0118975	0.21315902	2.7754510	20	10 2.3	21.0
442473 2011 US_{305}	15.6	X	175.15865	164.58323	242.12557	10.48859	0.1233236	0.17349536	3.1837880	20	4 27.3	20.7
442474 2011 UD_{309}	17.6	X	324.98551	165.70564	208.07217	2.31596	0.1502479	0.21250064	2.7811807	20	9 21.1	20.4
442475 2011 UR_{309}	16.3	X	0.97584	312.29708	58.65977	18.72615	0.2199740	0.22641491	2.6660361	20	12 6.5	19.2
442476 2011 UE_{314}	16.2	X	203.41978	91.29294	60.36977	9.65289	0.0746494	0.21161692	2.7889183	20	10 13.7	20.3
442477 2011 UG_{314}	16.9	X	280.27524	312.04640	83.48893	4.21473	0.0762923	0.20163920	2.8801785	20	8 17.4	20.7
442478 2011 UU_{320}	16.9	X	354.55257	21.30974	354.69041	13.78021	0.1094524	0.22215112	2.7000411	20	11 12.9	20.4
442479 2011 UH_{321}	16.3	X	252.08587	164.62207	312.29531	10.70873	0.0520581	0.21835257	2.7312650	20	10 24.2	20.2
442480 2011 UM_{326}	16.5	X	300.37876	304.31005	89.11908	16.29591	0.1536172	0.21022069	2.8012535	20	9 11.8	20.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
442481 2011 UA_{336}	17.2	X	334.50937	289.89616	91.84444	4.42264	0.1439898	0.21936216	2.7228783	20	10 25.8	20.1
442482 2011 UH_{347}	16.2	X	233.18023	185.60786	182.22290	10.38942	0.0859919	0.18411538	3.0601496	20	5 12.8	20.8
442483 2011 UO_{351}	17.0	X	336.48267	104.07103	285.04240	4.78134	0.1561786	0.22072809	2.7116334	20	11 6.2	19.9
442484 2011 UN_{362}	16.2	X	153.03821	81.87173	69.59945	9.98480	0.0514199	0.19162819	2.9796354	20	8 16.2	20.7
442485 2011 UW_{369}	17.4	X	321.31894	298.41474	69.97714	5.41207	0.1189747	0.20986396	2.8044270	20	9 11.8	20.6
442486 2011 UH_{387}	16.2	X	352.45361	249.52608	83.40019	13.99589	0.2218302	0.21082505	2.7958975	20	10 1.6	19.2
442487 2011 UJ_{391}	16.7	X	22.26157	256.53542	102.54493	12.56142	0.2674333	0.22794575	2.6540863	20	—	—
442488 2011 UR_{391}	16.8	X	356.67135	289.20170	93.28680	13.67527	0.1925960	0.22390112	2.6859538	20	12 12.6	19.7
442489 2011 UA_{397}	17.3	X	81.63750	67.29129	238.43467	8.26603	0.0831424	0.23932423	2.5692810	20	12 13.1	21.0
442490 2011 VV	17.0	X	349.04848	176.86208	176.70113	6.58366	0.0264331	0.21342178	2.7731725	20	10 3.9	20.6
442491 2011 VT_{1}	16.2	X	208.51363	277.66227	234.85135	12.63367	0.1431831	0.21653216	2.7465517	20	10 7.1	20.6
442492 2011 VY_{3}	16.7	X	56.55935	336.93059	343.17650	11.36450	0.1825819	0.23507148	2.6001761	20	12 13.1	20.7
442493 2011 VB_{9}	17.7	X	50.14125	166.21072	179.29953	14.22185	0.2628768	0.23581186	2.5947307	20	—	—
442494 2011 VL_{12}	16.7	X	265.92235	329.69421	69.01936	10.35895	0.0576950	0.19270908	2.9684832	20	8 5.4	20.9
442495 2011 VN_{18}	16.9	X	12.86366	253.52815	75.88869	12.37865	0.2588328	0.21897808	2.7260613	20	11 9.7	19.9
442496 2011 VY_{18}	17.2	X	322.98834	344.82912	46.98592	4.28464	0.1096907	0.21530294	2.7569956	20	10 16.9	20.4
442497 2011 VK_{19}	17.2	X	19.50877	294.83162	52.09752	9.52018	0.1992384	0.22291959	2.6938323	20	11 30.9	20.4
442498 2011 VJ_{22}	17.0	X	292.47981	72.45973	345.62417	5.00445	0.0760760	0.21004010	2.8028589	20	10 2.6	20.5
442499 2011 VO_{22}	17.5	X	55.06128	201.82765	137.40252	4.78409	0.1346139	0.23042358	2.6350252	20	12 28.8	21.2
442500 2011 WG_{2}	15.4	X	142.30144	307.86352	74.51992	19.13574	0.0791289	0.14775710	3.5435385	20	3 7.1	21.0
442501 2011 WX_{8}	16.6	X	23.36166	39.85015	248.75498	5.12390	0.2049839	0.20341125	2.8634267	20	9 13.9	19.9
442502 2011 WJ_{14}	17.1	X	321.90458	169.17679	207.35988	7.76500	0.1842947	0.21330359	2.7741969	20	9 15.4	20.0
442503 2011 WK_{16}	17.0	X	8.93691	258.93711	82.73392	13.24980	0.2636626	0.21553498	2.7550165	20	11 18.9	20.0
442504 2011 WA_{20}	16.4	X	9.42849	350.31322	248.72239	8.45958	0.0487175	0.17345762	3.1842498	20	5 30.6	20.7
442505 2011 WP_{21}	17.1	X	22.35234	128.26229	247.74121	5.15059	0.0273952	0.22352433	2.6889714	20	12 17.9	20.5
442506 2011 WJ_{22}	17.1	X	245.03322	356.19024	58.50550	1.70549	0.1068457	0.19122938	2.9837766	20	7 21.0	21.3
442507 2011 WN_{29}	17.7	X	276.29232	56.69962	7.68402	8.28163	0.1793560	0.20436464	2.8545142	20	9 4.5	21.4
442508 2011 WA_{42}	16.5	X	41.25935	184.21055	200.15996	13.68696	0.1778877	0.23662439	2.5887873	20	—	—
442509 2011 WH_{47}	17.1	X	1.67342	305.27970	73.80873	9.16938	0.1794197	0.22282552	2.6945904	20	12 13.3	20.1
442510 2011 WB_{48}	17.3	X	309.36618	193.71114	193.60169	2.07051	0.0542356	0.20622669	2.8373057	20	9 19.0	20.7
442511 2011 WF_{61}	17.1	X	338.03339	336.06695	90.03097	3.07842	0.0557629	0.22372384	2.6873725	20	12 25.2	20.5
442512 2011 WQ_{65}	16.1	X	317.16912	48.36856	274.05795	9.57091	0.0247451	0.18039767	3.1020498	20	7 5.9	20.3
442513 2011 WZ_{66}	17.5	X	12.86774	37.72449	355.59610	6.12782	0.3283945	0.23072170	2.6327549	20	—	—
442514 2011 WR_{75}	16.7	X	3.55323	89.42382	251.60574	11.66230	0.1278695	0.21291978	2.7775297	20	10 12.2	20.1
442515 2011 WR_{78}	17.4	X	39.50769	29.74564	11.08637	5.59140	0.3468602	0.23803324	2.5785624	20	—	—
442516 2011 WE_{79}	16.3	X	112.44812	278.56799	249.58549	8.13855	0.0316493	0.18583587	3.0412330	20	7 12.7	20.6
442517 2011 WM_{83}	16.7	X	272.44356	238.11676	87.24392	6.25672	0.1919423	0.17793037	3.1306606	20	4 21.8	21.3
442518 2011 WM_{85}	16.9	X	302.54284	320.89700	99.85799	4.75056	0.0866041	0.21110926	2.7933875	20	10 24.2	20.3
442519 2011 WN_{87}	17.4	X	217.82548	297.91485	133.55790	1.79777	0.1424823	0.18717076	3.0267557	20	7 8.1	22.2
442520 2011 WU_{87}	17.0	X	163.30818	66.91180	81.76198	6.35160	0.0871837	0.19201375	2.9756453	20	8 23.3	21.6
442521 2011 WK_{91}	16.6	X	340.80896	333.56904	64.60074	10.43659	0.2830345	0.21873146	2.7281100	20	12 11.5	18.7
442522 2011 WZ_{91}	17.3	X	344.03812	306.79475	80.50499	9.53092	0.2684371	0.21842310	2.7306771	20	12 2.1	19.5
442523 2011 WU_{95}	19.5	X	62.61064	242.35522	67.70254	6.71617	0.4247461	0.45812064	1.6665415	20	—	—
442524 2011 WV_{97}	16.0	X	10.27920	188.26661	79.69815	10.61178	0.0765078	0.18421134	3.0590868	20	7 11.2	19.9
442525 2011 WR_{103}	16.1	X	268.30268	354.18114	9.11679	8.16094	0.0912376	0.18699079	3.0286976	20	6 14.2	20.5
442526 2011 WG_{104}	16.5	X	217.79664	82.04328	334.58443	7.36741	0.0335187	0.18490916	3.0513856	20	6 29.5	21.0
442527 2011 WH_{106}	16.2	X	118.89937	269.59343	286.20594	5.56380	0.0375959	0.19375505	2.9577902	20	8 25.7	20.5
442528 2011 WB_{109}	16.2	X	285.49018	246.21850	119.37535	11.75505	0.1424305	0.19193853	2.9764227	20	7 3.3	20.1
442529 2011 WT_{121}	16.6	X	205.36837	158.85617	288.70023	4.97243	0.2166580	0.18359602	3.0659181	20	7 11.8	21.6
442530 2011 WM_{125}	16.4	X	267.73665	124.80491	255.13852	14.77604	0.0780853	0.18942553	3.0026892	20	7 5.8	20.7
442531 2011 WG_{126}	16.4	X	101.73237	312.55585	242.58564	9.47353	0.0591883	0.19028388	2.9936524	20	8 4.7	20.9
442532 2011 WC_{127}	17.3	X	320.93368	156.91254	245.91503	3.39825	0.0708839	0.21230655	2.7828756	20	10 26.9	20.8
442533 2011 WO_{133}	16.2	X	55.01346	202.79064	128.02599	19.31991	0.2930706	0.23248313	2.6194398	20	—	—
442534 2011 WG_{134}	16.6	X	341.62437	317.86032	34.03824	3.10814	0.1668851	0.20207822	2.8760055	20	9 22.2	19.5
442535 2011 WA_{138}	17.5	X	229.23734	152.12695	345.28520	3.17343	0.0363590	0.21551552	2.7551824	20	10 27.0	21.4
442536 2011 WB_{146}	17.1	X	71.37651	35.21933	338.00556	2.16460	0.1992767	0.23980756	2.5658276	20	—	—
442537 2011 WE_{151}	16.2	X	228.04600	81.22777	336.14183	11.72620	0.1681591	0.17945183	3.1129402	20	6 29.9	21.3
442538 2011 WJ_{151}	16.0	X	58.10855	13.41759	274.80657	16.74549	0.1300087	0.21524568	2.7574845	20	10 20.0	20.2
442539 2011 YM_{9}	16.1	X	354.52923	216.11594	83.34775	8.78624	0.0412655	0.18777274	3.0202834	20	7 29.9	20.2
442540 2011 YR_{12}	16.6	X	317.38299	261.25660	117.23374	16.91221	0.2362929	0.19919147	2.9037255	20	9 7.8	19.7
442541 2011 YQ_{13}	15.5	X	285.31951	242.43073	106.98534	22.85856	0.1906239	0.17645633	3.1480713	20	6 8.1	20.1
442542 2011 YW_{13}	16.7	X	222.78592	88.77931	345.21028	4.75712	0.1260672	0.18286470	3.0740868	20	7 18.7	21.5
442543 2011 YV_{31}	15.7	X	165.74407	200.30599	290.89525	7.89679	0.0666067	0.17954191	3.1118990	20	7 30.4	20.3
442544 2011 YE_{33}	16.3	X	260.05382	281.38594	122.37054	16.66552	0.1433842	0.18487721	3.0517372	20	7 19.1	20.8
442545 2011 YZ_{33}	15.6	X	110.42995	206.35649	325.85601	9.84730	0.0232853	0.17088106	3.2161781	20	7 16.6	20.2
442546 2011 YE_{34}	16.1	X	187.23228	359.83378	97.26721	10.01135	0.0426621	0.17353849	3.1832604	20	7 12.9	20.7
442547 2011 YQ_{39}	17.7	X	54.58711	81.04410	120.09096	45.28924	0.0230212	0.39780598	1.8310007	20	6 27.7	20.1
442548 2011 YR_{42}	16.5	X	281.46654	49.27945	308.44039	7.69031	0.1156326	0.18020900	3.1042145	20	6 21.3	20.7
442549 2011 YA_{45}	15.7	X	203.22285	162.92048	283.67938	9.87469	0.0814417	0.17465762	3.1696479	20	7 15.2	20.5
442550 2011 YT_{56}	17.0	X	302.10011	80.84923	311.10810	3.23688	0.1246613	0.19426925	2.9525686	20	9 4.1	20.6
442551 2011 YO_{59}	16.2	X	220.26348	291.02356	118.33268	17.94927	0.1311964	0.17109937	3.2134418	20	6 15.9	21.4
442552 2011 YP_{60}	16.9	X	356.36718	253.01550	151.64079	8.42264	0.2234962	0.21734381	2.7397096	20	—	—
442553 2011 YX_{69}	16.2	X	270.25857	254.40552	112.72992	11.03980	0.1079513	0.18055427	3.1002559	20	6 20.3	20.5
442554 2011 YW_{78}	16.2	X	211.71518	126.71087	331.25040	12.14827	0.0798959	0.18002711	3.1063051	20	8 10.3	20.8
442555 2012 AB_{6}	16.5	X	260.85577	276.02677	127.30201	8.47989	0.1989203	0.18502220	3.0501427	20	7 11.8	20.9
442556 2012 AH_{7}	16.1	X	242.71135	283.55214	135.60963	11.52059	0.1166422	0.18001850	3.1064042	20	7 21.3	20.6
442557 2012 AH_{8}	16.4	X	291.41983	267.94704	112.95422	3.03019	0.0696066	0.18332660	3.0689211	20	8 11.7	20.4
442558 2012 AU_{8}	16.2	X	289.11009	231.94289	124.96814	10.26300	0.0917283	0.17454031	3.1710680	20	7 3.7	20.5
442559 2012 AU_{10}	18.2	X	13.01947	307.48431	125.22794	39.13120	0.3158366	0.46174294	1.6578143	20	—	—
442560 2012 AR_{14}	15.8	X	208.05086	188.95304	273.27527	14.81670	0.1294163	0.18175553	3.0865807	20	8 1.9	20.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
442561 2012 AK_{15}	15.8	X	197.89904	126.19802	318.14389	11.95371	0.0516802	0.17465432	3.1696878	20	7 10.4	20.5
442562 2012 AL_{16}	16.2	X	295.81872	288.70573	51.69944	5.80440	0.0378723	0.17294143	3.1905828	20	6 29.1	20.7
442563 2012 AD_{17}	16.0	X	223.05870	308.27115	148.53252	17.27738	0.1896279	0.18044786	3.1014746	20	8 8.6	21.1
442564 2012 AP_{18}	16.4	X	33.23704	306.96280	76.51722	12.26252	0.2039642	0.22493317	2.6777316	20	—	—
442565 2012 AX_{23}	14.6	X	339.06876	189.45749	341.25594	10.06510	0.1219631	0.12381288	3.9868096	20	1 27.8	19.8
442566 2012 BL_{6}	16.4	X	281.45475	52.63190	303.34952	6.84368	0.0838429	0.17204885	3.2016083	20	6 23.6	20.8
442567 2012 BU_{11}	15.3	X	316.92235	19.90050	322.23983	12.04121	0.1290288	0.17604230	3.1530053	20	7 23.2	19.2
442568 2012 BO_{21}	16.0	X	270.27040	102.23402	300.55196	9.46008	0.0857071	0.18077012	3.0977875	20	8 6.9	20.4
442569 2012 BN_{22}	16.1	X	262.47237	145.03773	263.97926	8.14491	0.1335727	0.18459039	3.0548976	20	7 28.2	20.6
442570 2012 BG_{30}	16.2	X	197.99478	322.26760	126.38030	9.96937	0.0750403	0.17501081	3.1653820	20	7 12.7	20.9
442571 2012 BW_{32}	15.6	X	199.70090	272.71735	158.44950	26.44092	0.2379010	0.17116537	3.2126157	20	6 19.2	21.6
442572 2012 BP_{49}	16.9	X	321.16054	251.35580	125.80289	8.33619	0.3233841	0.20153070	2.8812121	20	8 31.9	19.0
442573 2012 BP_{73}	15.7	X	287.79765	244.55129	144.39907	17.42660	0.0986875	0.18392801	3.0622277	20	8 12.3	19.7
442574 2012 BH_{74}	16.4	X	265.78624	266.56578	147.20846	4.33269	0.1841642	0.18725449	3.0258535	20	8 2.1	20.6
442575 2012 BC_{79}	15.2	X	152.49601	198.78971	296.04602	15.77243	0.1560161	0.17469332	3.1692161	20	7 23.5	20.3
442576 2012 BU_{82}	16.2	X	273.74318	56.50128	318.68793	8.36828	0.1029523	0.17393957	3.1783651	20	7 6.1	20.7
442577 2012 BA_{83}	16.9	X	204.99331	7.64242	93.47420	2.59163	0.1497804	0.17871951	3.1214382	20	7 31.9	21.8
442578 2012 BZ_{84}	17.2	X	236.81675	335.32595	75.42123	2.45133	0.1715370	0.17529454	3.1619655	20	6 28.6	22.2
442579 2012 BQ_{87}	15.6	X	243.62868	126.46061	287.73157	15.51356	0.0998741	0.17722268	3.1389894	20	7 17.6	20.3
442580 2012 BV_{90}	16.3	X	228.47984	274.49621	137.34256	6.56639	0.2725077	0.17473717	3.1686858	20	6 14.6	21.7
442581 2012 BU_{93}	16.1	X	282.42574	80.32231	317.04797	11.68334	0.1440263	0.18473766	3.0532738	20	8 9.3	19.9
442582 2012 BL_{98}	16.2	X	184.08315	178.90320	308.21520	11.30296	0.2051614	0.17955550	3.1117419	20	8 10.1	21.4
442583 2012 BE_{102}	15.5	X	247.99151	101.12784	296.49203	9.76444	0.0096702	0.17512848	3.1639640	20	7 14.9	19.9
442584 2012 BB_{103}	15.6	X	281.27919	229.59956	123.24847	28.32571	0.2242676	0.17334313	3.1856517	20	6 6.0	20.6
442585 2012 BH_{103}	15.7	X	236.88999	273.85757	130.35911	15.88726	0.0818262	0.17470735	3.1690464	20	6 30.6	20.5
442586 2012 BX_{150}	16.9	X	27.39844	29.27298	68.29212	13.95207	0.3652488	0.23933368	2.5692133	20	—	—
442587 2012 BP_{151}	16.5	X	243.52348	109.58870	343.61620	5.63601	0.1059483	0.18585215	3.0410554	20	9 5.6	20.9
442588 2012 BK_{152}	15.7	X	267.84561	270.42813	131.18240	10.37317	0.0859414	0.17698638	3.1417827	20	8 3.1	20.0
442589 2012 CZ_{7}	16.0	X	201.43550	289.30472	152.81931	12.15497	0.1169688	0.16899941	3.2400069	20	7 5.7	21.2
442590 2012 CV_{8}	16.6	X	211.84750	127.44079	313.18786	2.60443	0.1433327	0.17308226	3.1888519	20	7 13.3	21.6
442591 2012 CR_{9}	16.8	X	240.48394	228.67849	201.90813	3.16160	0.2007672	0.18115057	3.0934487	20	7 23.2	21.6
442592 2012 CS_{25}	15.7	X	209.97813	278.77190	168.99897	18.86740	0.1395114	0.17251781	3.1958037	20	7 18.6	21.1
442593 2012 CU_{33}	16.5	X	299.18930	221.96943	161.53304	6.13713	0.1346991	0.18090902	3.0962016	20	8 16.2	20.4
442594 2012 CM_{40}	15.7	X	246.90537	241.20577	131.02972	10.75395	0.0392554	0.15674461	3.4067556	20	6 8.3	20.7
442595 2012 CJ_{43}	16.0	X	284.43088	7.54149	11.57519	11.64069	0.0892328	0.17846543	3.1244001	20	7 31.2	20.4
442596 2012 DT_{4}	16.3	X	250.81986	343.74474	111.43479	12.33122	0.2447468	0.19079624	2.9882907	20	9 2.4	20.9
442597 2012 DN_{7}	15.8	X	241.30842	302.24957	130.01028	9.96949	0.1492565	0.17771014	3.1332466	20	8 1.5	20.4
442598 2012 DO_{9}	15.4	X	219.95737	250.54562	145.98304	18.23357	0.1288071	0.15773610	3.3924646	20	6 1.8	21.0
442599 2012 DD_{13}	15.4	X	272.14955	210.99545	187.81511	11.84491	0.0585408	0.17387359	3.1791692	20	8 6.1	20.0
442600 2012 DE_{24}	16.7	X	238.18203	271.23619	176.94816	25.50523	0.2533490	0.17864906	3.1222588	20	8 4.2	22.1
442601 2012 DC_{39}	18.0	X	136.61681	283.12199	159.36104	23.50404	0.1279540	0.37951342	1.8893741	20	5 4.4	20.8
442602 2012 DE_{56}	15.7	X	200.11003	317.89969	131.19785	29.15740	0.1712016	0.17574640	3.1565433	20	7 12.2	21.0
442603 2012 FC_{29}	15.4	X	50.68894	335.86133	144.94725	4.01232	0.1254860	0.12288186	4.0069218	20	3 13.7	20.5
442604 2012 GR_{11}	17.8	X	298.44394	178.37659	119.90329	23.74421	0.0593767	0.37227878	1.9137735	20	5 11.3	20.4
442605 2012 HY_{33}	19.1	X	260.42943	270.75726	63.61885	14.69808	0.5435859	0.34915584	1.9973608	20	3 22.3	23.3
442606 2012 JM_{18}	17.9	X	213.29977	274.53513	111.04218	23.90881	0.1222262	0.36717048	1.9314829	20	5 15.9	21.0
442607 2012 KZ_{8}	17.9	X	312.98547	140.99550	119.23239	24.33463	0.0362780	0.36031567	1.9559029	20	4 8.4	20.6
442608 2012 KD_{9}	18.2	X	43.67026	84.79428	130.05053	24.01280	0.0663810	0.37600263	1.9011168	20	6 29.1	20.2
442609 2012 KU_{42}	17.7	X	143.25336	207.77796	136.19024	18.97802	0.5146093	0.30179984	2.2011858	20	2 4.3	21.7
442610 2012 KS_{44}	17.7	X	347.91998	149.13465	126.81159	23.61844	0.0655169	0.37284391	1.9118391	20	6 26.7	19.5
442611 2012 PC_{5}	17.4	X	207.38464	288.49384	281.81321	5.39971	0.0273605	0.28587011	2.2822167	20	—	—
442612 2012 PY_{12}	18.0	X	183.43092	342.50728	312.14882	7.26498	0.0948972	0.30431976	2.1890177	20	—	—
442613 2012 PE_{20}	18.1	X	185.08988	330.57301	267.14415	4.45683	0.1989703	0.29510714	2.2343416	20	—	—
442614 2012 QZ_{12}	17.7	X	354.89934	222.28892	154.76224	1.74876	0.1905307	0.25838094	2.4413445	20	12 12.9	20.1
442615 2012 QD_{35}	18.2	X	195.13824	62.40871	210.52396	5.26298	0.1889527	0.30393154	2.1908814	20	—	—
442616 2012 QC_{50}	17.3	X	73.10504	232.97576	147.57118	23.97304	0.2193871	0.28928750	2.2642077	20	—	—
442617 2012 RR_{20}	17.4	X	116.17356	27.64132	282.54686	4.92711	0.1046650	0.28565412	2.2833670	20	—	—
442618 2012 RF_{21}	18.1	X	133.19620	60.40409	254.67032	1.57046	0.1999339	0.29283808	2.2458686	20	—	—
442619 2012 RZ_{22}	17.7	X	83.47400	223.93396	94.26019	2.67752	0.1889183	0.27133504	2.3630095	20	—	—
442620 2012 RD_{29}	17.8	X	101.29847	144.90873	194.20868	7.15795	0.1286243	0.28899647	2.2657276	20	—	—
442621 2012 SD	18.7	X	175.57170	309.97779	11.55236	4.64077	0.1099412	0.30756041	2.1736140	20	1 1.3	21.7
442622 2012 SJ_{8}	18.2	X	96.13759	127.65721	204.03195	6.09703	0.1675894	0.28338674	2.2955303	20	—	—
442623 2012 SL_{15}	18.4	X	66.49947	75.28407	344.22295	8.04690	0.1498911	0.29188322	2.2507640	20	—	—
442624 2012 SF_{18}	18.4	X	111.59368	167.28397	226.13613	6.18318	0.0658509	0.30138003	2.2032295	20	1 9.5	20.9
442625 2012 SG_{18}	18.1	X	202.42532	332.64526	312.43863	3.46919	0.1803590	0.30295435	2.1955901	20	—	—
442626 2012 SH_{21}	18.2	X	142.09183	188.26459	189.05078	6.63595	0.1473233	0.30553376	2.1832154	20	2 8.2	21.1
442627 2012 SC_{26}	18.6	X	206.66135	89.51079	212.82698	4.32769	0.0327400	0.30814226	2.1708769	20	1 5.7	21.2
442628 2012 SH_{50}	17.9	X	224.86777	50.51244	231.45571	2.28080	0.2586950	0.31606935	2.1344261	20	1 1.4	21.6
442629 2012 SX_{57}	18.2	X	82.01980	320.35929	14.63348	1.16369	0.2395895	0.27606063	2.3359654	20	—	—
442630 2012 SU_{64}	18.5	X	178.69895	338.72963	352.98912	1.85282	0.1857181	0.31269832	2.1497387	20	1 23.3	21.5
442631 2012 TL_{8}	17.1	X	17.33777	213.94836	228.52064	8.88253	0.0971305	0.28463146	2.2888330	20	—	—
442632 2012 TC_{18}	17.7	X	177.23161	236.54570	28.85746	2.39091	0.2002927	0.28755784	2.2732781	20	—	—
442633 2012 TG_{22}	18.1	X	61.10328	188.60799	220.46995	2.95347	0.1120040	0.28768047	2.2726320	20	—	—
442634 2012 TT_{24}	17.7	X	8.67250	58.07349	323.79441	6.05381	0.1617145	0.26329514	2.4108720	20	—	—
442635 2012 TL_{28}	18.0	X	48.15587	283.87025	178.00543	4.17082	0.1300095	0.30144921	2.2028924	20	1 9.2	19.8
442636 2012 TF_{45}	17.4	X	226.82851	308.78698	260.73897	6.18871	0.0804015	0.28153713	2.3055733	20	—	—
442637 2012 TQ_{49}	18.2	X	162.00925	292.60287	6.29027	2.17746	0.0396623	0.28941977	2.2635179	20	—	—
442638 2012 TY_{53}	17.9	X	115.90291	55.84223	303.34226	3.96568	0.1811794	0.29444091	2.2377108	20	—	—
442639 2012 TB_{69}	18.4	X	148.78646	145.84824	192.68316	2.97693	0.1691319	0.29765061	2.2215949	20	1 1.1	21.4
442640 2012 TD_{73}	18.0	X	10.79955	134.31650	304.40984	2.44184	0.1651314	0.27919376	2.3184563	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
442641 2012 TS_{93}	17.9	X	130.03793	203.58373	86.66462	3.70762	0.1993572	0.28190069	2.3035906	20	—	—
442642 2012 TY_{100}	17.2	X	26.06113	151.65373	211.98026	5.80465	0.1699811	0.25978953	2.4325118	20	—	—
442643 2012 TH_{101}	17.8	X	18.89020	154.12222	299.49421	5.13172	0.0929123	0.28382475	2.2931680	20	—	—
442644 2012 TF_{102}	18.3	X	163.95756	283.27954	0.74742	4.84159	0.1508218	0.28832916	2.2692221	20	—	—
442645 2012 TW_{109}	18.1	X	262.97887	249.91535	323.60393	7.21822	0.0520216	0.29249065	2.2476467	20	—	—
442646 2012 TP_{117}	18.2	X	87.48603	139.13557	269.43288	2.28976	0.1013642	0.29774743	2.2211133	20	—	—
442647 2012 TP_{120}	17.4	X	148.27879	225.36809	286.14839	3.71924	0.0511630	0.22711119	2.6605843	20	8 8.9	21.3
442648 2012 TM_{123}	17.2	X	210.04673	327.94632	254.14135	5.91875	0.0657907	0.27852085	2.3221891	20	—	—
442649 2012 TU_{124}	18.0	X	199.57167	228.87064	78.02610	5.28053	0.2610451	0.31048486	2.1599437	20	1 14.1	21.5
442650 2012 TZ_{125}	17.7	X	123.83609	351.04488	354.48278	2.72574	0.1775397	0.29267770	2.2466890	20	—	—
442651 2012 TR_{132}	18.0	X	124.38516	63.47240	308.24876	8.64531	0.1727049	0.30543443	2.1836887	20	1 15.8	20.4
442652 2012 TF_{136}	17.8	X	127.59276	290.67866	102.13876	5.31406	0.1162470	0.30745035	2.1741327	20	2 9.8	20.4
442653 2012 TJ_{137}	18.7	X	109.73046	131.79323	267.37278	1.30100	0.1511134	0.30100171	2.2050752	20	1 29.9	21.1
442654 2012 TB_{150}	17.9	X	118.14806	348.38692	17.02796	7.22249	0.1093376	0.29339076	2.2430473	20	—	—
442655 2012 TY_{159}	18.5	X	140.46327	196.04077	175.75777	6.45068	0.0844559	0.30655490	2.1783645	20	1 21.4	21.3
442656 2012 TK_{163}	17.9	X	161.39234	125.66903	153.96783	5.74727	0.1583910	0.28460219	2.2889900	20	—	—
442657 2012 TD_{166}	18.2	X	63.17868	332.05331	74.44066	5.36164	0.1433879	0.28684005	2.2770690	20	—	—
442658 2012 TW_{179}	18.4	X	96.98769	47.67847	261.90226	4.97396	0.1528640	0.27396140	2.3478831	20	—	—
442659 2012 TZ_{195}	18.0	X	348.82069	90.11163	354.41110	6.67248	0.1382681	0.26727720	2.3868664	20	—	—
442660 2012 TK_{197}	18.3	X	35.54098	32.75993	11.56921	2.32720	0.1280503	0.27262345	2.3555586	20	—	—
442661 2012 TF_{207}	18.0	X	17.05387	137.44326	294.53529	4.09664	0.1720600	0.27541605	2.3396086	20	—	—
442662 2012 TW_{207}	16.4	X	216.69958	192.51079	246.02764	8.83635	0.1386287	0.21905962	2.7253848	20	7 15.8	20.7
442663 2012 TB_{219}	17.7	X	76.81227	10.70401	35.73867	8.56898	0.1206409	0.28876411	2.2669428	20	—	—
442664 2012 TS_{227}	18.5	X	149.57763	258.61392	111.36183	0.76740	0.1568536	0.30862984	2.1685900	20	2 9.8	21.4
442665 2012 TY_{232}	17.5	X	80.78165	273.67470	87.31268	7.06274	0.2270978	0.28333462	2.2958118	20	—	—
442666 2012 TX_{252}	17.5	X	220.74965	329.17470	277.40080	6.20159	0.0718583	0.28839274	2.2688886	20	—	—
442667 2012 TF_{275}	17.6	X	161.67259	42.83185	246.96701	7.13207	0.1326895	0.28809769	2.2704374	20	—	—
442668 2012 TJ_{280}	17.9	X	349.69746	127.98436	323.56002	4.97882	0.1849723	0.27242468	2.3567042	20	—	—
442669 2012 TS_{285}	17.9	X	105.00181	146.14684	204.59757	6.65432	0.1091435	0.28261582	2.2997029	20	—	—
442670 2012 TT_{291}	17.4	X	105.66128	118.77285	262.19389	5.40367	0.0206195	0.29198748	2.2502282	20	—	—
442671 2012 TD_{294}	17.9	X	310.92958	134.50270	323.05662	3.83475	0.1175278	0.25808862	2.4431876	20	—	—
442672 2012 TL_{296}	16.7	X	136.54787	329.19736	221.45175	21.10298	0.0371708	0.23292341	2.6161379	20	9 9.9	20.8
442673 2012 TO_{301}	17.8	X	107.43263	352.68432	56.02744	8.41909	0.1580137	0.30403691	2.1903752	20	2 14.3	20.3
442674 2012 TJ_{302}	17.1	X	0.64142	164.97219	296.51880	4.33378	0.0996887	0.28500714	2.2868212	20	—	—
442675 2012 TT_{306}	18.1	X	115.46425	308.92159	82.60928	4.93279	0.1852217	0.29964747	2.2117140	20	2 3.9	20.6
442676 2012 TR_{308}	17.1	X	147.20733	16.66158	279.20709	6.06523	0.1206043	0.28187025	2.3037564	20	—	—
442677 2012 TM_{311}	17.9	X	64.26999	64.87517	352.01045	7.38639	0.1339080	0.28866882	2.2674417	20	—	—
442678 2012 TN_{320}	17.0	X	18.71322	273.33051	144.06692	13.64007	0.1292413	0.27052762	2.3677089	20	—	—
442679 2012 UD_{7}	18.2	X	80.80447	270.09982	126.16583	4.46706	0.1950119	0.29065069	2.2571226	20	—	—
442680 2012 UZ_{13}	16.9	X	92.67640	195.97556	34.82756	6.19585	0.0587702	0.23820128	2.5773495	20	9 20.6	20.4
442681 2012 UK_{24}	18.4	X	124.99502	0.90140	334.21059	9.70719	0.1261431	0.28862683	2.2676616	20	—	—
442682 2012 UT_{31}	17.1	X	352.38784	159.21697	285.32866	6.29422	0.0694253	0.27153181	2.3618678	20	—	—
442683 2012 UL_{38}	17.7	X	164.27142	55.31054	256.34080	4.95490	0.2484483	0.29798932	2.2199111	20	—	—
442684 2012 US_{39}	16.3	X	165.05006	29.61403	19.18782	10.78823	0.1065190	0.19227753	2.9729232	20	4 18.9	21.0
442685 2012 UU_{42}	18.6	X	85.82788	268.49862	31.51300	1.52558	0.1861102	0.26455822	2.4031924	20	12 23.6	22.4
442686 2012 UT_{43}	17.7	X	55.67913	212.97955	194.16887	4.66516	0.2129994	0.27958178	2.3163107	20	—	—
442687 2012 UH_{46}	17.4	X	233.23215	35.35652	173.35108	6.00141	0.0613637	0.27516134	2.3410522	20	—	—
442688 2012 UF_{48}	17.5	X	302.22234	221.15061	180.73755	3.89358	0.1454643	0.24031920	2.5621845	20	9 25.7	20.1
442689 2012 UT_{48}	17.9	X	180.40698	227.53048	41.72953	7.16803	0.1039226	0.28296114	2.2978315	20	—	—
442690 2012 UV_{50}	17.9	X	160.29186	151.80387	137.83509	2.87995	0.1686363	0.28449571	2.2895611	20	—	—
442691 2012 UP_{52}	18.1	X	329.06579	73.44654	43.74489	6.21556	0.1064114	0.27209274	2.3586206	20	—	—
442692 2012 UC_{61}	15.8	X	243.03069	72.18024	278.46680	14.98302	0.1070091	0.18210492	3.0826314	20	4 23.4	20.7
442693 2012 UD_{72}	18.1	X	23.76093	79.14723	30.46997	6.11350	0.0984802	0.29286268	2.2457429	20	—	—
442694 2012 UV_{80}	18.2	X	31.04479	102.91641	306.02910	4.45842	0.1044709	0.27281242	2.3544707	20	—	—
442695 2012 UC_{85}	18.3	X	101.93013	76.16154	327.64775	3.89089	0.1943628	0.30277610	2.1964517	20	2 1.6	20.3
442696 2012 UY_{94}	18.1	X	108.33203	190.10174	194.91803	6.60350	0.1678460	0.29705802	2.2245484	20	1 10.3	20.6
442697 2012 UT_{99}	18.1	X	102.39707	206.05066	189.68701	4.64400	0.1322242	0.29539978	2.2328657	20	1 11.2	20.5
442698 2012 UV_{108}	17.8	X	156.84465	337.84619	347.15119	5.25792	0.1520902	0.29650526	2.2273123	20	—	—
442699 2012 UK_{110}	17.0	X	96.00667	110.06595	211.89876	6.32400	0.1283851	0.26815834	2.3816348	20	—	—
442700 2012 UE_{112}	17.8	X	74.49683	274.76193	58.48409	3.04916	0.2285131	0.26722473	2.3871788	20	—	—
442701 2012 UH_{115}	17.7	X	62.19624	47.02950	252.58261	2.22152	0.1620578	0.25629761	2.4545564	20	11 26.1	21.3
442702 2012 UL_{116}	17.9	X	8.21098	97.68556	17.68563	8.23474	0.0601232	0.29042161	2.2583093	20	—	—
442703 2012 UO_{117}	17.8	X	149.44920	264.79753	23.65160	6.62973	0.1050602	0.28065999	2.3103745	20	—	—
442704 2012 UL_{122}	17.7	X	343.75010	200.61408	261.15096	4.18971	0.0507721	0.27183679	2.3601008	20	—	—
442705 2012 UD_{125}	17.5	X	338.45731	103.74848	271.84036	4.76050	0.1843538	0.24348499	2.5399271	20	10 30.4	19.7
442706 2012 UN_{134}	17.3	X	8.00545	99.95273	322.35549	7.42280	0.1432155	0.26942891	2.3741414	20	—	—
442707 2012 UD_{135}	17.7	X	143.84776	349.29343	338.28774	5.81268	0.2286178	0.29514212	2.2341650	20	—	—
442708 2012 UK_{142}	18.3	X	197.22382	186.28770	102.82760	5.40219	0.1929642	0.30040679	2.2079855	20	—	—
442709 2012 UH_{152}	18.0	X	137.92649	117.57188	201.10206	4.66626	0.1825778	0.28400725	2.2921855	20	—	—
442710 2012 UD_{154}	17.6	X	95.92463	79.20260	228.50939	7.87362	0.1205050	0.26986758	2.3715680	20	—	—
442711 2012 UC_{159}	17.9	X	136.74869	325.27403	22.95660	8.06839	0.1004920	0.29253970	2.2473955	20	—	—
442712 2012 UP_{159}	18.0	X	24.69234	331.64436	107.11359	6.92016	0.1231389	0.28111596	2.3078755	20	—	—
442713 2012 UA_{162}	17.1	X	279.80437	164.13136	242.95972	7.69171	0.1630538	0.23107363	2.6300810	20	8 16.9	20.5
442714 2012 UJ_{163}	17.2	X	153.60497	16.02881	283.72243	3.68791	0.1446978	0.28310218	2.2970683	20	—	—
442715 2012 UQ_{166}	17.9	X	179.42666	56.53741	262.65971	7.04586	0.2466878	0.30672958	2.1775373	20	1 11.7	21.5
442716 2012 VH_{11}	18.1	X	134.21817	148.53412	209.84074	5.29068	0.1872640	0.29528432	2.2334477	20	1 12.2	21.0
442717 2012 VQ_{15}	15.5	X	38.74027	253.70988	264.35334	10.04495	0.0765363	0.18001109	3.1064894	20	3 25.6	19.7
442718 2012 VJ_{17}	16.1	X	232.43103	170.82468	249.05506	12.50612	0.0305670	0.21666109	2.7454620	20	7 19.9	20.2
442719 2012 VV_{17}	18.1	X	99.15694	255.56109	124.85215	2.85467	0.1442064	0.28778148	2.2721002	20	—	—
442720 2012 VP_{21}	17.8	X	146.06919	63.94795	231.56109	1.39088	0.2270396	0.28386252	2.2929646	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
442721 2012 VB_{31}	18.0	X	139.77759	315.34725	80.10532	6.05525	0.2453454	0.30835909	2.1698592	20	3 16.7	21.2
442722 2012 VM_{31}	17.1	X	93.52393	48.09103	233.92036	7.50415	0.1308123	0.26001006	2.4311362	20	12 4.5	20.8
442723 2012 VK_{32}	17.5	X	49.87470	252.13407	100.22724	3.37509	0.2299648	0.26450296	2.4035271	20	—	—
442724 2012 VY_{33}	17.9	X	123.29889	230.98699	141.11024	4.74161	0.1663490	0.29510828	2.2343358	20	1 14.6	20.4
442725 2012 VK_{39}	16.4	X	269.74524	23.25420	77.90394	15.50049	0.1269202	0.23681035	2.5874319	20	11 1.6	19.7
442726 2012 VS_{49}	17.4	X	303.99048	48.44433	52.16256	6.35919	0.1193593	0.25913060	2.4366337	20	12 31.9	19.8
442727 2012 VQ_{67}	17.3	X	203.70727	4.54378	225.97112	5.28912	0.0703782	0.27152361	2.3619153	20	—	—
442728 2012 VD_{68}	17.9	X	145.08782	313.06248	47.21427	6.93714	0.1075077	0.30016901	2.2091514	20	1 18.9	20.7
442729 2012 VE_{72}	17.3	X	0.04349	344.95317	64.66871	7.66760	0.0920586	0.25915463	2.4364831	20	—	—
442730 2012 VW_{72}	18.4	X	82.74809	328.07824	84.72807	3.53632	0.1386699	0.29057912	2.2574932	20	1 6.2	20.3
442731 2012 VU_{91}	16.7	X	36.86907	52.99353	220.82907	8.67986	0.0505952	0.22264759	2.6960258	20	8 25.0	20.4
442732 2012 VJ_{92}	17.4	X	78.05705	342.64363	81.75307	6.45420	0.1374921	0.29113660	2.2546104	20	1 15.3	19.4
442733 2012 VW_{93}	17.4	X	283.66440	211.04835	183.88727	4.21239	0.0762032	0.22978640	2.6398941	20	8 22.1	20.6
442734 2012 VT_{95}	17.9	X	99.61835	154.46731	220.59367	6.42534	0.1151110	0.28641238	2.2793352	20	—	—
442735 2012 VC_{99}	17.4	X	27.62496	193.02279	223.51748	5.88755	0.1175198	0.26856925	2.3792050	20	—	—
442736 2012 VN_{99}	17.9	X	132.44454	253.74768	137.61534	4.20417	0.1762653	0.30335210	2.1936704	20	2 22.1	20.5
442737 2012 VP_{99}	17.5	X	68.83306	344.18655	67.22204	5.56448	0.1249273	0.28694018	2.2765392	20	—	—
442738 2012 VK_{101}	18.4	X	133.97323	223.80177	181.75619	2.20689	0.1194803	0.30882512	2.1676757	20	3 5.3	21.0
442739 2012 VO_{104}	18.2	X	140.38282	117.18296	210.15722	6.09698	0.2457392	0.29182553	2.2510606	20	—	—
442740 2012 WT_{1}	16.6	X	323.61096	308.85627	70.99399	6.53780	0.1428663	0.23661107	2.5888845	20	10 7.9	19.3
442741 2012 WY_{1}	17.2	X	17.73577	233.40512	83.71291	4.45677	0.1488983	0.23879374	2.5730847	20	10 17.9	20.2
442742 2012 WP_{3}	17.6	X	200.55656	141.66521	227.18246	22.56699	0.3840785	0.32393267	2.0997434	20	3 24.8	22.0
442743 2012 WF_{9}	17.9	X	106.17263	307.75564	79.88572	6.60805	0.1764211	0.29084242	2.2561305	20	1 15.5	20.2
442744 2012 WW_{13}	18.1	X	122.96058	208.45162	116.33949	3.15341	0.2172941	0.28051044	2.3111956	20	—	—
442745 2012 WG_{15}	18.5	X	37.86787	290.84017	114.19484	2.94168	0.1780222	0.27098028	2.3650714	20	—	—
442746 2012 WH_{15}	17.8	X	2.51609	330.41633	95.29546	4.44763	0.1693475	0.26327118	2.4110183	20	—	—
442747 2012 WO_{15}	17.5	X	53.01083	263.24344	94.69741	4.54556	0.1687520	0.25984810	2.4321462	20	—	—
442748 2012 WJ_{19}	17.0	X	352.72389	73.77511	251.63790	9.83840	0.1304285	0.22985112	2.6393985	20	9 2.6	20.1
442749 2012 WX_{20}	18.5	X	340.93650	151.08348	284.19998	2.32635	0.1736510	0.25858842	2.4400384	20	—	—
442750 2012 WG_{24}	16.1	X	28.49890	39.67463	243.32183	11.15993	0.1449456	0.22585055	2.6704756	20	9 6.2	19.6
442751 2012 WO_{24}	18.0	X	51.56920	44.18225	1.84982	2.82718	0.1571878	0.27659031	2.3329821	20	—	—
442752 2012 WA_{25}	15.7	X	295.48586	130.86739	301.79703	31.47809	0.1962615	0.23206588	2.6225787	20	9 24.3	19.5
442753 2012 WK_{27}	16.5	X	303.72738	132.18500	256.05184	12.58870	0.1981146	0.23173493	2.6250750	20	8 22.6	19.5
442754 2012 WV_{27}	17.8	X	72.91997	154.90319	236.38695	6.44691	0.0984776	0.27440027	2.3453789	20	—	—
442755 2012 WR_{29}	17.5	X	10.87372	4.09302	74.01164	3.85087	0.1401256	0.26735974	2.3863751	20	—	—
442756 2012 WX_{31}	17.3	X	49.65981	169.21088	255.82740	8.34952	0.1076295	0.27941155	2.3172513	20	—	—
442757 2012 WU_{33}	17.2	X	32.66399	246.71293	98.41652	4.95437	0.1005449	0.24590198	2.5232563	20	12 8.6	20.3
442758 2012 XE_{14}	17.5	X	85.80333	83.64742	302.07091	6.02069	0.1159678	0.28442708	2.2899294	20	—	—
442759 2012 XJ_{37}	16.4	X	255.92472	322.72225	80.13919	14.68097	0.1924815	0.21657614	2.7461798	20	7 8.1	20.5
442760 2012 XV_{46}	17.8	X	77.24410	283.07771	103.58271	4.67563	0.2103085	0.28003642	2.3138030	20	—	—
442761 2012 XR_{48}	17.6	X	66.16727	49.87960	294.79620	5.28925	0.1306329	0.26004468	2.4309204	20	—	—
442762 2012 XJ_{51}	17.0	X	232.48501	148.46649	67.20720	13.85119	0.0265122	0.26930013	2.3748982	20	—	—
442763 2012 XG_{53}	13.9	X	156.23553	84.38382	109.95907	22.25662	0.0898717	0.08413945	5.1578607	20	10 4.7	21.4
442764 2012 XL_{62}	17.7	X	76.50364	201.39536	150.26602	6.66948	0.1386988	0.26820689	2.3813474	20	—	—
442765 2012 XH_{77}	17.5	X	347.34041	129.19219	189.58229	2.31113	0.0801692	0.22294192	2.6936524	20	8 16.3	20.7
442766 2012 XE_{81}	17.3	X	275.77801	329.46568	127.33368	5.65312	0.1536834	0.24046573	2.5611435	20	10 29.4	20.2
442767 2012 XM_{82}	17.8	X	60.51055	252.82935	117.45578	5.27928	0.0865220	0.26718461	2.3874178	20	—	—
442768 2012 XV_{92}	18.3	X	52.81338	72.75170	315.50541	1.49800	0.1190486	0.27036255	2.3686726	20	—	—
442769 2012 XL_{93}	16.5	X	195.06546	60.44124	101.97372	13.44262	0.0882085	0.22244631	2.6976519	20	10 21.2	20.7
442770 2012 XQ_{96}	18.0	X	25.00652	14.53495	49.30961	7.42222	0.0880325	0.26920601	2.3754518	20	—	—
442771 2012 XZ_{102}	18.4	X	350.63619	51.56941	47.06852	6.59551	0.1520096	0.27062679	2.3671304	20	—	—
442772 2012 XH_{104}	16.6	X	280.36517	14.36881	84.43843	13.82501	0.1257248	0.23377406	2.6097877	20	11 12.6	19.7
442773 2012 XO_{105}	16.9	X	228.67750	146.18226	317.91419	8.95218	0.1532594	0.21689465	2.7434907	20	8 29.0	20.9
442774 2012 XZ_{105}	16.3	X	139.21484	102.30279	101.09674	18.44583	0.1088575	0.21464578	2.7626199	20	10 15.3	21.0
442775 2012 XH_{107}	18.0	X	65.92106	158.10106	248.67722	3.56730	0.1419468	0.27960352	2.3161906	20	—	—
442776 2012 XB_{117}	17.3	X	43.97141	116.43897	281.87025	8.50730	0.2074209	0.27043680	2.3682390	20	—	—
442777 2012 XE_{120}	17.1	X	176.31189	73.12141	89.47606	9.69449	0.0951855	0.21444376	2.7643547	20	9 28.2	21.5
442778 2012 XE_{124}	16.8	X	120.77842	134.48114	128.76996	9.15409	0.0241356	0.24442362	2.5334204	20	12 3.7	20.4
442779 2012 XO_{125}	17.6	X	22.07538	237.13294	146.18127	6.78746	0.1354285	0.25674935	2.4516764	20	—	—
442780 2012 XT_{131}	16.0	X	12.11390	139.27189	91.13115	11.74663	0.0408166	0.19224591	2.9732492	20	5 24.9	19.9
442781 2012 XL_{135}	16.9	X	356.77002	217.01340	138.31678	3.90104	0.1616527	0.24103295	2.5571239	20	11 6.7	19.6
442782 2012 XY_{135}	17.1	X	314.44816	328.56434	110.02587	14.58963	0.1403469	0.24229512	2.5482358	20	12 14.7	19.8
442783 2012 XU_{136}	18.1	X	117.09610	77.64035	287.54154	3.52579	0.2060068	0.28903061	2.2655491	20	1 4.6	20.5
442784 2012 XB_{140}	18.5	X	46.41458	199.78212	194.13200	0.78056	0.1761894	0.27141335	2.3625549	20	—	—
442785 2012 XM_{144}	16.6	X	320.91883	322.19479	106.52326	5.07373	0.2149865	0.23760887	2.5816317	20	12 12.5	18.6
442786 2012 XN_{144}	16.7	X	275.61258	139.62034	310.13344	32.04201	0.1785805	0.23086272	2.6316826	20	9 16.4	20.8
442787 2012 XQ_{150}	18.5	X	49.94792	16.85133	27.12102	2.45520	0.2235087	0.27557441	2.3387122	20	—	—
442788 2012 XY_{150}	16.7	X	6.46628	287.52176	83.37280	12.48158	0.1469937	0.23759855	2.5817065	20	12 10.2	19.5
442789 2012 XW_{151}	18.0	X	10.61309	314.67538	124.92935	2.77921	0.1498660	0.26248191	2.4158490	20	—	—
442790 2012 XA_{152}	17.7	X	74.87209	309.21176	115.16629	5.32289	0.1993019	0.28310084	2.2970755	20	1 19.8	19.6
442791 2012 XE_{152}	16.8	X	262.62954	118.76767	312.92661	8.07294	0.1181868	0.22065199	2.7122569	20	9 2.0	20.4
442792 2012 XS_{152}	17.6	X	357.25369	75.32284	3.21481	5.31412	0.2010455	0.25789009	2.4444413	20	—	—
442793 2012 XJ_{154}	15.8	X	358.91043	332.24099	295.71138	9.89994	0.0867073	0.17938959	3.1136603	20	6 23.3	19.7
442794 2012 YU_{1}	15.9	X	78.33422	247.69978	274.15944	12.99911	0.2337752	0.17529224	3.1619931	20	6 22.0	20.3
442795 2013 AW_{7}	17.6	X	18.29174	247.19177	174.34742	0.77538	0.1576030	0.25581314	2.4576544	20	—	—
442796 2013 AY_{7}	18.4	X	53.11614	298.33820	121.40028	5.43191	0.2170120	0.27055437	2.3675528	20	—	—
442797 2013 AH_{8}	16.2	X	81.67879	278.24857	294.72816	8.00091	0.2333604	0.18632925	3.0358620	20	8 26.4	20.9
442798 2013 AX_{8}	17.6	X	339.28073	47.05018	20.69173	3.60827	0.1389987	0.24679183	2.5171873	20	—	—
442799 2013 AM_{14}	17.2	X	355.83230	43.26338	16.03213	4.52634	0.2263814	0.25191981	2.4829111	20	—	—
442800 2013 AS_{14}	15.6	X	25.79531	277.14716	315.64813	11.98900	0.2514627	0.17377092	3.1804213	20	7 9.3	19.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
442801 2013 AZ_{18}	17.4	X	273.70413	125.64470	311.97407	4.90351	0.1126778	0.22309624	2.6924101	20	9 27.1	20.9
442802 2013 AN_{19}	17.0	X	227.38519	11.23292	110.69996	10.67915	0.1364196	0.21871686	2.7282314	20	9 28.6	21.1
442803 2013 AZ_{22}	16.7	X	105.20219	30.90471	131.50175	6.76546	0.0971261	0.18193010	3.0846058	20	7 5.7	21.2
442804 2013 AJ_{28}	16.6	X	341.74380	220.14922	143.67396	6.81194	0.0390288	0.21338914	2.7734554	20	10 9.6	20.2
442805 2013 AL_{28}	16.5	X	288.89006	296.06423	136.16339	12.53669	0.1708855	0.22393312	2.6856979	20	10 13.4	19.7
442806 2013 AO_{28}	16.7	X	156.04460	140.22115	348.53099	8.37096	0.1429995	0.19475075	2.9477001	20	7 22.7	21.5
442807 2013 AQ_{28}	16.7	X	236.96620	57.57520	85.16866	14.49258	0.2020183	0.22678232	2.6631559	20	10 29.7	20.7
442808 2013 AH_{33}	16.9	X	309.18541	41.50622	47.65153	8.46644	0.1565990	0.23834999	2.5762774	20	12 15.6	19.5
442809 2013 AY_{38}	18.6	X	106.36464	119.67043	284.13039	1.03656	0.2359358	0.28796799	2.2711191	20	2 16.5	21.2
442810 2013 AH_{41}	17.6	X	48.06971	259.81216	115.59949	2.37284	0.1869406	0.25383278	2.4704207	20	—	—
442811 2013 AV_{41}	17.1	X	318.02609	127.32044	326.45458	13.41559	0.0470503	0.24051104	2.5608219	20	—	—
442812 2013 AQ_{43}	16.9	X	266.70043	343.35208	108.28375	14.80910	0.2134361	0.22421701	2.6834304	20	9 30.1	20.6
442813 2013 AM_{44}	17.2	X	252.45012	331.28376	107.72188	4.76628	0.0749149	0.20988968	2.8041979	20	9 7.9	21.1
442814 2013 AD_{46}	16.7	X	269.03527	74.52388	350.88191	3.74685	0.0900515	0.21191702	2.7862847	20	9 8.3	20.1
442815 2013 AK_{46}	17.8	X	129.86456	263.30508	83.35602	8.57707	0.1896964	0.28328131	2.2960998	20	—	—
442816 2013 AJ_{52}	16.5	X	239.09395	129.49268	333.81692	13.18896	0.1757566	0.21944643	2.7221812	20	9 6.2	20.6
442817 2013 AE_{55}	17.1	X	250.15422	89.51738	359.89383	6.22583	0.0152860	0.21754186	2.7380465	20	9 26.3	20.8
442818 2013 AJ_{55}	16.8	X	345.37354	293.68327	87.78899	12.77151	0.1379768	0.23263506	2.6182992	20	11 19.4	19.7
442819 2013 AN_{58}	16.5	X	247.59265	355.11893	121.68370	13.34037	0.0985036	0.22361674	2.6882305	20	10 23.9	20.4
442820 2013 AF_{61}	17.4	X	23.07063	130.46200	283.23560	12.55479	0.1411573	0.25828573	2.4419444	20	—	—
442821 2013 AR_{63}	14.9	X	56.92659	249.14214	289.24308	21.10660	0.0584208	0.17455235	3.1709222	20	5 17.3	19.6
442822 2013 AL_{64}	17.2	X	314.56103	321.61408	114.29224	10.58787	0.0592096	0.23787388	2.5797139	20	12 9.2	20.3
442823 2013 AR_{68}	16.9	X	319.78226	145.98372	261.02126	11.17157	0.1109943	0.23105114	2.6302517	20	11 1.8	19.9
442824 2013 AP_{73}	17.9	X	0.43817	161.23955	284.69859	1.77368	0.1836246	0.25885384	2.4383702	20	—	—
442825 2013 AY_{75}	16.9	X	203.13161	67.13878	88.27193	4.47600	0.1336379	0.21757599	2.7377602	20	10 11.7	21.0
442826 2013 AE_{78}	16.8	X	246.78623	3.96036	92.69989	10.81015	0.1714612	0.21813233	2.7331032	20	9 14.3	20.8
442827 2013 AV_{78}	17.0	X	8.77739	110.79267	264.85748	9.28964	0.1958325	0.23914846	2.5705398	20	12 27.7	19.8
442828 2013 AT_{81}	16.4	X	51.02115	293.94123	302.14217	10.79481	0.1569171	0.19067141	2.9895948	20	8 9.1	20.2
442829 2013 AU_{81}	18.0	X	4.31177	354.31352	83.41267	2.32893	0.1578956	0.25850792	2.4405450	20	—	—
442830 2013 AE_{82}	16.6	X	53.98770	280.79777	300.01328	9.92590	0.1681625	0.18551925	3.0446922	20	7 26.7	20.6
442831 2013 AD_{83}	17.1	X	63.25374	141.95286	114.23130	5.41697	0.0099521	0.20927525	2.8096839	20	9 4.7	20.9
442832 2013 AG_{85}	17.4	X	72.82006	262.75687	98.60599	7.15012	0.1357131	0.25797184	2.4439249	20	—	—
442833 2013 AP_{87}	16.6	X	47.91223	286.90684	310.69287	8.48068	0.0620779	0.19507292	2.9444537	20	7 25.9	20.5
442834 2013 AP_{88}	17.2	X	296.86492	91.81254	32.91514	8.72314	0.1809775	0.24357666	2.5392898	20	—	—
442835 2013 AC_{93}	16.8	X	269.67156	330.79538	123.84155	34.41895	0.2123117	0.22987801	2.6391926	20	10 16.3	20.9
442836 2013 AE_{94}	17.6	X	60.24455	335.13088	57.59427	2.15645	0.1887088	0.26603497	2.3942908	20	—	—
442837 2013 AZ_{96}	18.2	X	96.32041	254.04069	134.69198	6.36502	0.2097048	0.28078492	2.3096891	20	1 8.3	20.5
442838 2013 AN_{97}	15.9	X	261.13980	94.49328	284.99699	8.00731	0.0163934	0.19155725	2.9803710	20	7 7.9	20.1
442839 2013 AB_{100}	17.4	X	25.22139	34.15150	354.31336	1.08280	0.1880160	0.25481491	2.4640688	20	—	—
442840 2013 AZ_{100}	16.4	X	41.59921	259.68606	307.08261	11.97897	0.2312201	0.17367711	3.1815664	20	6 29.2	20.3
442841 2013 AK_{103}	16.0	X	102.24739	39.31253	116.05596	17.54275	0.0496753	0.18030669	3.1030932	20	6 18.8	20.6
442842 2013 AR_{108}	16.0	X	28.25056	326.12816	291.02637	10.07007	0.0793789	0.19067164	2.9895924	20	7 23.9	19.8
442843 2013 AF_{113}	16.2	X	269.69084	61.82630	280.43794	7.51515	0.1177627	0.18867431	3.0106542	20	5 15.3	20.6
442844 2013 AP_{116}	17.8	X	86.43080	57.00364	339.08050	6.57732	0.2023837	0.27339425	2.3511290	20	1 3.6	20.0
442845 2013 AH_{117}	16.5	X	26.81096	272.70829	322.35125	16.21313	0.0983369	0.18109280	3.0941065	20	6 26.2	20.6
442846 2013 AR_{118}	17.1	X	233.45614	60.17760	61.44554	5.65290	0.1833508	0.22248421	2.6973456	20	9 27.3	21.1
442847 2013 AR_{119}	17.0	X	76.70189	234.71437	106.72972	5.52423	0.2355597	0.25666483	2.4522146	20	—	—
442848 2013 AY_{120}	17.8	X	120.89234	39.37072	278.34417	4.55265	0.1426237	0.26760386	2.3849236	20	—	—
442849 2013 AA_{122}	16.7	X	12.59054	238.94422	103.47674	5.98628	0.0526524	0.22059191	2.7127493	20	10 27.9	20.3
442850 2013 AN_{122}	16.5	X	58.95922	311.54362	335.48119	6.96832	0.2013241	0.21259148	2.7803884	20	10 31.9	20.6
442851 2013 AX_{123}	17.8	X	345.13695	319.89369	88.24993	4.47070	0.1737004	0.24084526	2.5584522	20	12 30.4	20.3
442852 2013 AC_{125}	17.3	X	241.63404	101.74438	9.32811	4.19309	0.0770017	0.21955781	2.7212605	20	10 4.7	21.0
442853 2013 AE_{126}	16.8	X	345.67126	74.17330	331.99337	11.23553	0.1791532	0.24403322	2.5361216	20	—	—
442854 2013 AR_{126}	17.0	X	302.28164	106.58004	286.87721	5.86931	0.0594815	0.22063995	2.7123555	20	9 15.7	20.6
442855 2013 AH_{130}	17.0	X	253.54189	97.85456	348.95903	2.83038	0.0952556	0.21591744	2.7517622	20	9 15.2	20.7
442856 2013 AY_{131}	17.0	X	251.13221	6.55182	121.05122	6.57301	0.1340810	0.22424380	2.6832168	20	11 2.9	20.6
442857 2013 AF_{135}	17.6	X	28.59350	186.45098	200.28635	2.27629	0.2271851	0.25136684	2.4865511	20	—	—
442858 2013 AQ_{136}	18.0	X	25.48530	98.31817	284.73340	1.80734	0.1588634	0.24566612	2.5248710	20	—	—
442859 2013 AZ_{137}	17.2	X	212.97718	225.66103	236.00084	0.79848	0.0348836	0.20873161	2.8145603	20	8 21.5	21.0
442860 2013 AB_{150}	16.5	X	354.59525	116.12401	147.66439	16.56803	0.2137984	0.18103833	3.0947271	20	6 11.1	20.0
442861 2013 AH_{161}	17.6	X	348.79611	167.06370	193.78482	8.68335	0.1271343	0.22455130	2.6807666	20	10 22.0	20.4
442862 2013 AN_{162}	16.3	X	228.92879	193.30247	242.86789	10.68159	0.0110856	0.20258754	2.8711832	20	8 6.6	20.5
442863 2013 AX_{165}	17.1	X	82.49808	135.13133	160.15490	14.36257	0.1871766	0.22867055	2.6484751	20	12 10.3	21.5
442864 2013 AO_{166}	16.7	X	17.64808	101.51900	159.06748	11.87764	0.0518657	0.19109685	2.9851559	20	7 10.0	20.7
442865 2013 AP_{171}	16.8	X	356.84399	86.21438	202.78416	10.73718	0.0806630	0.19431385	2.9521168	20	7 16.4	20.7
442866 2013 AR_{173}	16.6	X	7.22069	74.52077	170.18405	10.25553	0.0906147	0.17989360	3.1078418	20	6 6.3	20.7
442867 2013 AT_{174}	16.8	X	9.82044	220.22707	151.62546	24.53462	0.1332334	0.23703878	2.5857694	20	12 17.7	20.5
442868 2013 AY_{178}	17.0	X	5.48381	141.23483	243.77134	12.03503	0.1498177	0.24128869	2.5553167	20	12 27.8	20.0
442869 2013 BH_{9}	17.4	X	283.87257	354.43528	87.29921	4.06960	0.0795099	0.22828279	2.6514734	20	10 27.7	20.7
442870 2013 BL_{9}	16.1	X	331.95975	323.69233	308.15502	15.67850	0.1985799	0.17680639	3.1439147	20	4 26.5	20.1
442871 2013 BY_{13}	16.6	X	36.01459	96.65519	128.74575	11.52197	0.0401311	0.18366972	3.0650978	20	6 19.9	20.9
442872 2013 BB_{15}	17.7	X	156.46361	275.57924	279.16023	0.70276	0.0131951	0.21920577	2.7241733	20	10 13.7	21.4
442873 2013 BE_{15}	16.8	X	288.96737	137.60638	299.90678	7.70201	0.0583301	0.22707608	2.6608586	20	10 26.4	20.4
442874 2013 BJ_{15}	17.3	X	69.84951	162.26056	133.79270	4.35134	0.0686435	0.22415769	2.6839039	20	11 14.0	21.1
442875 2013 BA_{24}	16.2	X	94.72032	226.65237	290.34562	8.77956	0.0679531	0.18110949	3.0939165	20	6 12.4	20.6
442876 2013 BE_{24}	17.1	X	222.89411	7.49192	121.19019	12.90483	0.0698535	0.21992571	2.7182248	20	10 11.4	21.1
442877 2013 BX_{25}	16.3	X	304.45123	264.51172	131.30938	10.44735	0.1922018	0.21647918	2.7469998	20	9 13.1	19.2
442878 2013 BG_{29}	17.2	X	318.77270	357.39400	73.87443	10.10048	0.1401607	0.23516182	2.5995101	20	12 8.1	19.6
442879 2013 BN_{33}	17.2	X	286.60768	303.53539	143.00787	6.16923	0.2024874	0.23147282	2.6270563	20	10 24.2	20.0
442880 2013 BS_{35}	17.3	X	261.76443	8.38488	120.65651	16.09637	0.0365175	0.23478901	2.6022611	20	12 6.3	20.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
442881 2013 BX_{37}	18.1	X	13.83677	251.27575	176.96643	1.06395	0.1565416	0.25934188	2.4353102	20	—	—
442882 2013 BU_{38}	16.2	X	188.39216	280.12482	122.82375	10.27986	0.0875914	0.17866448	3.1220792	20	5 10.4	21.2
442883 2013 BY_{38}	17.3	X	333.79925	286.46403	133.19138	15.24941	0.0819449	0.23694862	2.5864252	20	12 17.9	20.5
442884 2013 BB_{39}	15.9	X	35.95608	311.11916	297.07205	13.38948	0.1728250	0.18574879	3.0421833	20	8 3.8	19.6
442885 2013 BU_{43}	17.4	X	203.30434	35.70097	77.16780	2.98390	0.0163936	0.20515386	2.8471887	20	8 27.3	21.4
442886 2013 BK_{47}	16.9	X	348.07084	357.86465	340.92992	5.76247	0.0749591	0.21344469	2.7729741	20	9 13.2	20.2
442887 2013 BS_{47}	17.3	X	342.20269	283.34616	90.47503	7.16104	0.0483881	0.22400098	2.6851554	20	10 26.6	20.7
442888 2013 BU_{47}	16.8	X	80.60461	185.57409	351.77996	3.81198	0.0855402	0.18220510	3.0815013	20	6 23.4	21.1
442889 2013 BE_{56}	17.0	X	307.57590	297.96499	128.85142	13.77824	0.1389714	0.23314419	2.6144860	20	11 15.4	20.1
442890 2013 BN_{59}	17.0	X	240.26067	100.55709	342.73458	3.75083	0.0343273	0.21089015	2.7953220	20	9 1.9	20.7
442891 2013 BN_{60}	17.0	X	351.17309	87.41680	321.74362	15.11901	0.0718366	0.23572627	2.5953587	20	12 29.4	20.4
442892 2013 BX_{63}	16.4	X	70.01872	247.43251	329.90719	14.32403	0.0183723	0.18701657	3.0284192	20	7 24.9	20.7
442893 2013 BJ_{69}	17.2	X	321.40957	90.51048	322.26462	9.74572	0.1318482	0.23144026	2.6273027	20	11 11.6	20.2
442894 2013 BL_{72}	16.8	X	299.39638	268.25448	152.31200	14.81501	0.0905188	0.22363688	2.6880692	20	10 24.2	20.2
442895 2013 BR_{73}	16.3	X	233.89465	110.70723	318.57917	14.11227	0.1260618	0.20286282	2.8685852	20	7 26.7	20.6
442896 2013 BQ_{75}	17.5	X	43.32593	325.10173	76.67711	3.85877	0.1669885	0.25832182	2.4417170	20	—	—
442897 2013 BE_{76}	17.9	X	22.35495	81.51561	313.24643	10.20678	0.0970402	0.24524175	2.5277830	20	—	—
442898 2013 CF	17.4	X	11.68076	283.29797	155.73399	5.36491	0.1626446	0.25888710	2.4381613	20	—	—
442899 2013 CE_{3}	15.5	X	92.70127	44.63398	143.52245	28.66226	0.1157006	0.17770042	3.1333608	20	7 26.1	20.3
442900 2013 CH_{9}	17.1	X	263.51472	283.86619	186.24141	9.54817	0.1376761	0.22382235	2.6865840	20	10 26.1	20.5
442901 2013 CJ_{9}	16.4	X	163.32603	61.36247	167.20772	14.55948	0.1150284	0.22244260	2.6976819	20	12 2.1	20.8
442902 2013 CZ_{9}	15.8	X	160.17789	287.80650	132.07388	17.12438	0.1279039	0.17345864	3.1842373	20	5 6.6	21.1
442903 2013 CT_{10}	16.7	X	247.92725	86.27510	104.81693	9.66596	0.0554456	0.24127692	2.5553999	20	—	—
442904 2013 CB_{11}	17.2	X	260.43948	317.95251	87.41003	4.61471	0.0662067	0.19986164	2.8972307	20	8 4.3	21.2
442905 2013 CQ_{12}	16.9	X	345.50063	78.41193	328.32583	25.86380	0.2243390	0.23871153	2.5736755	20	—	—
442906 2013 CV_{12}	16.7	X	53.22217	92.90079	125.92156	7.55946	0.0331500	0.18313161	3.0710992	20	7 3.1	20.9
442907 2013 CK_{15}	17.2	X	338.16902	296.95040	134.86082	9.89630	0.1076246	0.23893600	2.5720633	20	—	—
442908 2013 CC_{16}	16.9	X	342.71446	27.15438	343.45577	5.61508	0.0611647	0.21462068	2.7628353	20	10 16.2	20.4
442909 2013 CS_{19}	16.1	X	38.75256	207.96715	120.54388	33.70081	0.1864578	0.23162301	2.6259206	20	12 12.7	20.3
442910 2013 CR_{20}	17.0	X	271.48944	312.87331	99.13815	2.88106	0.0598211	0.20958939	2.8068758	20	8 30.2	20.6
442911 2013 CH_{25}	17.0	X	22.07118	81.22353	305.24887	14.08499	0.1474809	0.24248128	2.5469313	20	—	—
442912 2013 CR_{26}	16.6	X	62.12736	265.47704	310.02932	12.08062	0.1141239	0.18162880	3.0880163	20	7 23.6	20.7
442913 2013 CA_{31}	16.0	X	296.79900	329.18444	344.36081	8.86106	0.0883451	0.17525974	3.1623840	20	5 16.6	20.5
442914 2013 CA_{33}	15.6	X	307.54310	308.71243	341.32453	8.95821	0.0104666	0.17013278	3.2256016	20	5 11.1	20.2
442915 2013 CU_{36}	16.2	X	105.72424	9.69358	132.40597	17.94498	0.1389470	0.17642080	3.1484940	20	6 17.9	21.2
442916 2013 CL_{39}	17.0	X	338.15813	71.30974	338.43945	14.19101	0.0860353	0.23100774	2.6305811	20	12 6.2	20.5
442917 2013 CU_{39}	17.6	X	307.14451	12.59727	61.03806	2.58185	0.0784174	0.22787996	2.6545971	20	11 20.1	20.6
442918 2013 CZ_{39}	16.7	X	35.90151	29.76415	333.17662	14.05849	0.1102485	0.23433955	2.6055875	20	—	—
442919 2013 CH_{42}	16.3	X	277.35105	56.87497	279.91113	8.66261	0.0327591	0.17499295	3.1655974	20	5 31.4	20.7
442920 2013 CG_{43}	17.3	X	287.71610	326.99407	93.87526	4.65683	0.0812020	0.21641428	2.7475490	20	10 3.8	20.7
442921 2013 CY_{44}	17.9	X	343.73271	321.69184	92.83871	4.33374	0.1207510	0.23475278	2.6025289	20	12 28.0	20.5
442922 2013 CM_{45}	16.4	X	31.33611	286.35275	333.80239	10.40774	0.1145297	0.18488860	3.0516118	20	8 8.1	20.3
442923 2013 CA_{48}	15.9	X	61.86842	208.61084	354.97670	7.76472	0.1048181	0.17219147	3.1998402	20	7 6.2	20.3
442924 2013 CW_{48}	18.1	X	100.18075	165.87042	240.21886	2.37142	0.2290528	0.28711203	2.2756307	20	2 9.3	20.6
442925 2013 CF_{49}	17.1	X	103.45270	289.30224	54.39377	2.26751	0.1975454	0.26263936	2.4148834	20	—	—
442926 2013 CS_{49}	15.9	X	164.48013	164.73001	299.23721	11.83489	0.0558503	0.18315832	3.0708006	20	6 26.5	20.5
442927 2013 CQ_{51}	17.1	X	142.57540	260.95629	321.44150	3.92163	0.0310605	0.21683329	2.7440082	20	10 30.1	21.0
442928 2013 CL_{52}	17.1	X	321.62859	318.57632	121.27440	5.75738	0.1615134	0.23474098	2.6026161	20	12 26.6	19.7
442929 2013 CH_{64}	16.3	X	352.60838	321.85572	294.87992	8.60578	0.0646725	0.17267855	3.1938202	20	5 28.1	20.6
442930 2013 CQ_{64}	16.9	X	352.84337	79.36487	294.74279	4.85450	0.0414278	0.22042533	2.7141158	20	11 4.9	20.5
442931 2013 CW_{64}	16.1	X	159.08415	144.68386	305.97256	9.68220	0.0598726	0.17646547	3.1479626	20	6 2.0	20.9
442932 2013 CY_{64}	15.9	X	353.53224	102.52185	155.20586	17.92927	0.0988955	0.17122333	3.2118907	20	6 3.6	20.3
442933 2013 CA_{66}	16.7	X	292.85993	117.21476	313.35160	5.24342	0.1213494	0.22121360	2.7076644	20	10 15.6	20.0
442934 2013 CE_{66}	16.8	X	289.02174	122.50955	320.90490	12.34895	0.2339449	0.22799154	2.6537309	20	10 8.1	19.8
442935 2013 CR_{70}	17.2	X	279.37583	307.28518	155.30696	12.50928	0.1405445	0.23024344	2.6363994	20	11 12.9	20.5
442936 2013 CL_{71}	16.3	X	331.33589	4.69043	298.10918	15.35207	0.0740011	0.18585275	3.0410488	20	6 28.2	20.3
442937 2013 CN_{72}	17.0	X	16.16823	219.89218	147.25507	14.64680	0.1201252	0.23465013	2.6032878	20	12 16.2	20.5
442938 2013 CG_{74}	16.1	X	111.42398	157.36252	345.99397	9.79791	0.0205206	0.17482456	3.1676298	20	6 8.0	20.8
442939 2013 CO_{74}	17.7	X	92.52006	272.79148	148.19141	22.46333	0.2874732	0.28483372	2.2877494	20	3 2.9	20.2
442940 2013 CZ_{74}	16.6	X	143.15703	31.67183	108.93228	10.87027	0.0466043	0.18813818	3.0163710	20	7 17.6	21.0
442941 2013 CH_{75}	16.5	X	60.26908	59.85877	151.36948	16.37430	0.1373615	0.17646979	3.1479111	20	7 17.0	20.9
442942 2013 CP_{76}	16.0	X	107.34781	56.68421	109.10050	11.96144	0.0089631	0.18192555	3.0846573	20	7 1.5	20.2
442943 2013 CZ_{86}	15.6	X	88.77714	200.74613	337.69443	16.27894	0.1414703	0.17509945	3.1643137	20	7 16.6	20.4
442944 2013 CQ_{87}	16.6	X	16.45166	69.35551	181.12894	10.64017	0.1303548	0.17389051	3.1789629	20	6 29.6	20.7
442945 2013 CL_{90}	16.7	X	294.52609	91.83130	351.07741	12.41197	0.1509029	0.22589569	2.6701198	20	10 30.7	19.8
442946 2013 CM_{90}	15.9	X	105.42605	25.08088	131.28253	14.33710	0.2136174	0.17514346	3.1637835	20	7 11.0	20.9
442947 2013 CM_{95}	16.7	X	175.05160	140.15579	322.51909	8.96317	0.0687998	0.18624899	3.0367341	20	7 7.4	21.3
442948 2013 CH_{99}	16.5	X	24.98441	327.11320	321.92002	10.70397	0.0874418	0.19325323	2.9629083	20	8 30.8	20.2
442949 2013 CJ_{100}	17.7	X	337.44706	91.54241	313.03907	3.30917	0.0957680	0.22825285	2.6517052	20	11 29.2	20.7
442950 2013 CM_{103}	16.8	X	267.92384	331.51696	122.86584	12.21255	0.0444107	0.21833785	2.7313878	20	10 28.2	20.6
442951 2013 CU_{104}	15.9	X	34.85677	247.00105	344.28211	10.25751	0.0429203	0.17897077	3.1185161	20	6 26.2	20.3
442952 2013 CZ_{104}	16.9	X	200.92322	231.70211	313.04313	1.59991	0.0302060	0.22516076	2.6759269	20	11 24.5	20.6
442953 2013 CA_{114}	17.0	X	291.23659	121.60659	325.44453	7.54411	0.1373345	0.22505040	2.6768017	20	11 3.0	20.2
442954 2013 CL_{115}	15.5	X	48.84668	73.13000	160.78029	18.24508	0.1154333	0.17536832	3.1610786	20	7 26.4	19.9
442955 2013 CF_{116}	16.0	X	322.66889	12.15552	353.16779	11.69771	0.0754906	0.20140033	2.8824554	20	9 8.8	19.4
442956 2013 CW_{116}	15.8	X	81.94329	184.83065	359.84847	12.06962	0.1470744	0.17423440	3.1747786	20	7 16.0	20.5
442957 2013 CK_{119}	17.0	X	329.05098	7.32139	80.28055	4.15665	0.0336467	0.23142663	2.6274059	20	—	—
442958 2013 CG_{121}	17.2	X	216.49383	61.39470	71.91018	10.62933	0.1348209	0.21594242	2.7515500	20	10 1.4	21.5
442959 2013 CA_{123}	16.2	X	53.03678	40.26428	133.66962	11.79393	0.1060669	0.16958913	3.2324913	20	5 18.9	20.6
442960 2013 CQ_{123}	16.6	X	116.41842	155.34381	342.05460	9.91074	0.1562073	0.17404561	3.1770740	20	6 23.5	21.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
442961 2013 CS_{124}	15.8	X	340.95289	179.24447	128.32637	10.01513	0.0258471	0.18472892	3.0533702	20	7 19.4	20.0
442962 2013 CG_{125}	16.9	X	336.94748	348.94883	92.22625	5.98435	0.1550336	0.24028126	2.5624542	20	—	—
442963 2013 CN_{125}	16.0	X	81.95727	93.46442	85.77438	6.65523	0.1255729	0.17158683	3.2073529	20	7 2.9	20.5
442964 2013 CB_{126}	16.1	X	89.75748	131.69449	41.36743	4.80500	0.0856684	0.17174289	3.2054096	20	6 29.2	20.8
442965 2013 CP_{130}	16.2	X	116.42978	189.46688	337.10561	10.45584	0.0861859	0.18119190	3.0929783	20	7 25.1	20.8
442966 2013 CC_{131}	16.1	X	304.32910	24.09472	324.07576	10.41312	0.0678370	0.18760245	3.0221107	20	7 19.8	20.2
442967 2013 CF_{131}	16.8	X	165.41834	21.34051	172.85810	5.09964	0.0924206	0.21034570	2.8001435	20	10 21.5	21.0
442968 2013 CG_{134}	15.4	X	37.59816	61.64136	109.55561	14.85450	0.1641846	0.15633438	3.4127126	20	5 1.9	19.8
442969 2013 CV_{135}	16.7	X	255.07513	106.68418	54.46584	13.45044	0.1343945	0.23940445	2.5687070	20	12 22.5	19.9
442970 2013 CH_{136}	16.2	X	253.71491	124.08471	8.96460	14.39265	0.1201440	0.22594492	2.6697319	20	11 8.2	19.8
442971 2013 CK_{136}	16.8	X	346.87811	69.90752	12.84105	13.62364	0.1496969	0.24594310	2.5229750	20	—	—
442972 2013 CB_{137}	16.5	X	16.39918	62.77873	306.62651	5.39656	0.0460728	0.22315862	2.6919083	20	12 3.6	20.1
442973 2013 CZ_{137}	16.7	X	272.30826	92.19837	355.66205	10.21868	0.1666767	0.21557511	2.7546746	20	9 30.0	20.0
442974 2013 CJ_{141}	16.7	X	119.31787	195.38364	340.11311	13.49784	0.0292475	0.19067987	2.9895064	20	8 4.7	21.0
442975 2013 CV_{141}	17.5	X	315.60132	304.15239	93.96291	5.65509	0.1929511	0.22118830	2.7078708	20	10 11.3	20.1
442976 2013 CB_{147}	16.6	X	346.54518	274.58578	98.21411	5.27826	0.1152041	0.21443454	2.7644340	20	11 1.5	19.7
442977 2013 CO_{149}	17.5	X	350.91267	91.01678	352.24737	12.99338	0.1156257	0.24364119	2.5388414	20	—	—
442978 2013 CL_{150}	16.3	X	347.35007	145.48874	148.66025	10.42121	0.0752307	0.17807293	3.1289895	20	7 9.2	20.5
442979 2013 CH_{151}	16.4	X	312.74295	171.42750	147.43958	11.39856	0.0442199	0.17524614	3.1625476	20	6 23.9	20.8
442980 2013 CX_{154}	15.6	X	328.53802	164.12647	148.14727	16.35326	0.0828983	0.18131294	3.0916015	20	7 4.5	19.8
442981 2013 CB_{155}	16.3	X	269.41133	50.39574	339.10110	7.67515	0.0596179	0.19036410	2.9928114	20	7 27.2	20.5
442982 2013 CP_{155}	16.9	X	281.52893	268.35159	142.65726	6.80534	0.0587158	0.20378212	2.8599515	20	9 11.3	20.6
442983 2013 CQ_{158}	16.7	X	349.51817	200.31996	164.87174	11.01303	0.1285501	0.20924435	2.8099605	20	10 27.8	20.0
442984 2013 CP_{159}	16.3	X	262.21150	82.21330	340.33426	9.91740	0.1292424	0.20307988	2.8665407	20	8 20.4	20.1
442985 2013 CK_{161}	16.7	X	211.28874	100.28485	350.92790	8.74570	0.0741632	0.19103131	2.9858387	20	8 3.5	21.2
442986 2013 CK_{165}	16.7	X	311.48514	251.79981	170.54265	6.35798	0.0262761	0.21444673	2.7643292	20	11 12.1	20.3
442987 2013 CN_{165}	17.0	X	144.82432	51.90890	76.97714	3.58948	0.0718269	0.17959477	3.1112883	20	7 5.8	21.6
442988 2013 CK_{166}	16.0	X	229.84242	50.06306	14.02909	10.76208	0.0987560	0.18965303	3.0002875	20	7 18.8	20.7
442989 2013 CB_{170}	16.7	X	153.08843	149.34131	318.21943	7.30514	0.1315337	0.17900802	3.1180834	20	6 20.9	21.7
442990 2013 CV_{173}	17.5	X	64.40610	233.91671	172.78693	2.62760	0.1926043	0.26065781	2.4271068	20	—	—
442991 2013 CO_{174}	16.0	X	268.52274	24.71088	331.86176	10.86299	0.0837168	0.17480339	3.1678855	20	6 6.3	20.7
442992 2013 CT_{176}	17.9	X	58.78866	104.17154	312.00136	5.75213	0.1603885	0.27078984	2.3661801	20	—	—
442993 2013 CQ_{177}	16.9	X	13.27474	58.10713	319.86379	14.09270	0.1439817	0.23196327	2.6233520	20	12 29.2	20.3
442994 2013 CM_{179}	16.8	X	291.55913	342.96402	72.75083	4.53639	0.1892595	0.21809738	2.7333952	20	9 18.0	19.8
442995 2013 CM_{180}	16.5	X	122.49684	191.36292	304.50880	8.62209	0.0973331	0.17764165	3.1340519	20	6 22.2	21.2
442996 2013 CV_{180}	15.7	X	192.10577	98.94903	323.04351	14.94798	0.0265581	0.17585418	3.1552534	20	6 3.3	20.5
442997 2013 CE_{181}	16.5	X	248.85385	11.39798	156.35669	11.89465	0.0712661	0.23050668	2.6343918	20	12 29.6	20.1
442998 2013 CR_{181}	17.4	X	353.36560	92.41381	330.03881	5.36512	0.2226837	0.24604601	2.5222715	20	—	—
442999 2013 CO_{183}	16.9	X	291.78579	55.53355	60.79872	8.55460	0.1551558	0.24042124	2.5614595	20	12 21.7	19.4
443000 2013 CA_{187}	16.2	X	61.13872	61.29141	126.03352	17.52175	0.0187747	0.17350608	3.1836569	20	6 4.7	20.9
443001 2013 CV_{191}	16.2	X	253.73353	79.40123	321.22837	8.45793	0.0630132	0.17924889	3.1152895	20	7 19.7	20.7
443002 2013 CO_{193}	16.4	X	167.76788	8.86169	170.95436	20.30685	0.0786511	0.20655622	2.8342872	20	10 7.2	20.8
443003 2013 CA_{194}	17.3	X	224.66490	91.37757	25.94803	6.88662	0.0830090	0.21130801	2.7916357	20	9 21.9	21.2
443004 2013 CU_{194}	16.3	X	266.28417	34.49572	344.40447	8.86797	0.0966554	0.19064242	2.9898979	20	7 3.2	20.6
443005 2013 CL_{195}	18.2	X	323.61907	83.89629	351.42541	3.22403	0.2055481	0.23773056	2.5807506	20	12 28.4	20.3
443006 2013 CX_{195}	15.7	X	341.30950	148.73268	143.45166	28.30479	0.1833370	0.17592913	3.1543572	20	6 25.7	19.7
443007 2013 CV_{198}	15.9	X	107.03750	272.90410	281.56823	8.40992	0.0279091	0.18867732	3.0106222	20	8 7.8	20.3
443008 2013 CS_{199}	16.7	X	51.09807	151.08240	73.20564	6.09125	0.0761200	0.18181309	3.0859292	20	7 13.9	20.8
443009 2013 CU_{201}	16.8	X	31.75530	20.79334	335.29779	17.80040	0.2081897	0.23135799	2.6279255	20	—	—
443010 2013 CE_{212}	16.9	X	157.55128	155.23892	317.08712	4.45569	0.1212049	0.18129489	3.0918068	20	6 30.9	21.7
443011 2013 CQ_{214}	17.1	X	192.76494	39.79018	161.15065	12.82104	0.0445268	0.22520095	2.6756085	20	12 5.7	21.1
443012 2013 CE_{216}	16.3	X	224.05485	115.59467	297.23151	9.70229	0.0527535	0.18426716	3.0584691	20	6 30.1	20.7
443013 2013 DO_{2}	16.1	X	115.33546	145.83569	348.90382	10.11523	0.0377267	0.17265897	3.1940615	20	6 3.6	20.8
443014 2013 DT_{2}	17.7	X	336.11266	87.88081	350.22031	3.21326	0.1916835	0.24302665	2.5431196	20	—	—
443015 2013 DS_{7}	16.4	X	7.68220	272.01697	127.40176	29.88409	0.1692200	0.24212271	2.5494453	20	—	—
443016 2013 DD_{11}	16.4	X	17.56973	310.58365	348.85589	11.87366	0.0849273	0.19881603	2.9073799	20	9 5.9	20.1
443017 2013 DL_{11}	15.9	X	96.68999	201.31810	341.21076	14.74287	0.1355204	0.18192038	3.0847158	20	7 30.4	20.6
443018 2013 EN_{4}	16.2	X	281.25369	128.72156	232.36508	7.46498	0.0328742	0.18446429	3.0562897	20	7 6.5	20.5
443019 2013 EG_{10}	15.8	X	72.75910	255.93223	331.22472	14.58722	0.0375236	0.18087527	3.0965867	20	8 11.4	20.1
443020 2013 EX_{10}	15.3	X	344.49435	352.29989	319.09138	21.68992	0.1168950	0.18605411	3.0388543	20	7 31.4	18.9
443021 2013 EE_{13}	16.8	X	36.07904	260.92234	352.56483	9.62608	0.0444178	0.18224997	3.0809955	20	7 29.5	21.1
443022 2013 EK_{13}	16.6	X	300.91152	356.25452	24.22251	2.17205	0.0676037	0.19800895	2.9152748	20	8 27.1	20.4
443023 2013 EM_{14}	16.3	X	101.45437	337.23649	160.63585	18.13642	0.0852321	0.16752162	3.2590333	20	6 1.8	21.4
443024 2013 EX_{15}	16.5	X	287.54010	11.09139	358.54939	15.25925	0.0385082	0.18614752	3.0378376	20	8 1.3	20.9
443025 2013 EX_{22}	16.4	X	312.12816	65.15722	275.82470	8.63788	0.1074654	0.18861272	3.0113095	20	7 14.5	20.1
443026 2013 EY_{23}	17.0	X	260.46124	302.32185	150.32361	9.88076	0.1406691	0.21125352	2.7921157	20	9 26.9	20.8
443027 2013 ED_{24}	15.6	X	273.03990	167.87494	79.67447	6.82134	0.1713636	0.12527302	3.9557699	20	1 29.0	21.5
443028 2013 EM_{25}	17.0	X	297.24150	277.88675	166.31640	11.56241	0.1709307	0.22261748	2.6962689	20	11 12.3	20.0
443029 2013 EY_{32}	16.5	X	193.05247	39.29063	149.75327	4.54657	0.0080364	0.21945721	2.7220921	20	11 23.1	20.2
443030 2013 ET_{34}	16.2	X	283.10045	337.93465	93.23105	3.19511	0.0449343	0.20633053	2.8363537	20	10 12.4	19.9
443031 2013 EP_{36}	16.2	X	342.66002	194.96894	120.18622	3.47633	0.0806259	0.18092024	3.0960736	20	7 30.8	19.9
443032 2013 EY_{36}	16.2	X	105.07388	163.16808	4.14245	15.15876	0.1277687	0.17423652	3.1747528	20	7 19.5	21.2
443033 2013 EB_{40}	16.1	X	11.40918	118.86785	141.45827	11.89662	0.0866776	0.18006788	3.1058362	20	7 2.6	20.1
443034 2013 EJ_{43}	16.3	X	81.39609	207.60209	346.10217	10.65317	0.0013282	0.17594955	3.1541132	20	7 4.4	20.9
443035 2013 EJ_{59}	16.9	X	48.88036	162.81791	165.39062	4.93588	0.0666178	0.21290966	2.7776177	20	11 25.8	20.8
443036 2013 EN_{65}	16.1	X	140.64971	128.09932	353.10090	6.75494	0.0797739	0.17328473	3.1863674	20	6 21.9	21.0
443037 2013 EY_{65}	17.7	X	340.46332	258.66781	165.06389	8.89668	0.1522137	0.23923849	2.5698948	20	—	—
443038 2013 EZ_{67}	16.2	X	71.76859	19.55092	176.76387	9.17976	0.1404237	0.17047617	3.2212686	20	7 12.7	20.8
443039 2013 ET_{81}	16.8	X	5.39137	230.75572	154.55982	6.38112	0.0524298	0.21956483	2.7212026	20	12 10.3	20.4
443040 2013 EA_{90}	15.4	X	78.83897	227.61603	346.22378	22.80310	0.1096840	0.17737387	3.1372054	20	8 17.2	20.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
443041 2013 EM_{94}	16.4	X	304.22302	318.74278	106.76429	12.15231	0.1932745	0.22132596	2.7067480	20	10 30.6	19.3
443042 2013 EN_{95}	16.9	X	11.15658	336.79658	24.32208	2.78834	0.0802186	0.21118326	2.7927349	20	11 17.2	20.3
443043 2013 ES_{101}	15.8	X	56.38627	305.42981	311.23522	8.23013	0.0513313	0.18990784	2.9976030	20	8 27.1	20.0
443044 2013 EX_{102}	17.6	X	302.16727	341.74591	127.22569	7.56181	0.2902594	0.23291911	2.6161700	20	12 21.8	19.2
443045 2013 EJ_{104}	15.7	X	64.19804	196.61151	22.23121	10.51052	0.0166669	0.17359734	3.1825410	20	7 17.5	20.3
443046 2013 EX_{104}	15.1	X	311.44660	233.21906	327.19784	10.22739	0.1664354	0.12530055	3.9551904	20	1 18.9	20.5
443047 2013 EX_{106}	15.6	X	90.49750	100.92515	106.98891	10.79055	0.0220576	0.18011277	3.1053201	20	8 6.3	20.0
443048 2013 EK_{109}	15.9	X	166.32380	302.88875	174.30799	5.39673	0.0865572	0.17787413	3.1313205	20	7 13.8	20.7
443049 2013 EK_{110}	16.2	X	2.07565	29.44729	301.02779	0.36807	0.0320766	0.19216662	2.9740670	20	9 17.7	20.3
443050 2013 EV_{111}	15.8	X	247.49719	332.80219	60.54746	8.61331	0.0134367	0.17043569	3.2217786	20	7 8.3	20.4
443051 2013 EA_{114}	17.2	X	317.68050	82.20846	30.25165	12.58310	0.2599422	0.24224166	2.5486106	20	—	—
443052 2013 EN_{119}	16.3	X	74.19944	256.50491	337.86911	8.25745	0.0888405	0.18496322	3.0507911	20	8 28.6	20.7
443053 2013 EP_{119}	16.3	X	332.83912	280.40750	170.55283	22.00021	0.0446550	0.22944949	2.6424776	20	—	—
443054 2013 ES_{126}	16.1	X	174.05862	67.88713	80.23522	15.48310	0.0776764	0.19021686	2.9943556	20	9 7.9	20.9
443055 2013 EP_{138}	17.2	X	246.88930	121.85798	330.38215	4.37860	0.0298905	0.21154591	2.7895423	20	9 21.5	21.0
443056 2013 FG_{6}	15.6	X	282.18215	268.71288	105.63397	23.09867	0.0608499	0.18071863	3.0983759	20	7 21.9	19.8
443057 2013 FU_{7}	15.5	X	304.40284	247.41659	88.04362	13.09053	0.0883178	0.17096707	3.2150994	20	6 27.5	19.8
443058 2013 FK_{11}	16.0	X	70.81914	94.17824	130.38285	11.24017	0.0348284	0.17849381	3.1240689	20	8 2.9	20.3
443059 2013 FP_{13}	16.2	X	122.17277	9.12007	150.39251	12.00832	0.0284025	0.17534066	3.1614110	20	7 13.4	20.8
443060 2013 FN_{15}	16.2	X	195.45051	279.70006	175.12637	12.57922	0.1826241	0.18384619	3.0631361	20	7 12.3	21.5
443061 2013 FB_{16}	16.2	X	164.64549	21.91389	108.23678	3.99644	0.0290002	0.17813271	3.1282894	20	7 28.7	20.8
443062 2013 FM_{16}	15.6	X	123.17405	149.05299	7.67077	8.93888	0.0508989	0.17180246	3.2046686	20	7 16.1	20.4
443063 2013 FQ_{20}	15.8	X	193.44317	88.43604	21.98926	11.70072	0.0430127	0.18291920	3.0734762	20	8 11.5	20.5
443064 2013 FJ_{25}	16.9	X	286.66742	339.40742	150.93952	12.98791	0.1274057	0.22536628	2.6742998	20	12 29.2	20.1
443065 2013 FK_{25}	15.8	X	81.63755	114.03703	101.18553	11.77215	0.0595406	0.18625075	3.0367149	20	8 11.2	20.1
443066 2013 GV_{2}	16.7	X	337.71333	103.79880	317.63190	13.50585	0.0793775	0.23021605	2.6366085	20	12 23.6	20.0
443067 2013 GD_{4}	16.8	X	259.29596	300.15522	183.42975	13.58284	0.1664323	0.21952532	2.7215290	20	11 2.3	20.4
443068 2013 GJ_{4}	16.6	X	305.77085	251.04985	184.43979	4.67857	0.1072824	0.21769018	2.7368027	20	11 17.1	19.7
443069 2013 GC_{11}	16.6	X	338.27840	277.87154	127.95168	6.80369	0.0638192	0.21393069	2.7687728	20	11 28.6	20.1
443070 2013 GO_{11}	16.6	X	209.43848	266.12671	207.39680	9.51839	0.0650492	0.19226252	2.9730779	20	8 24.9	21.1
443071 2013 GO_{13}	15.8	X	117.47576	69.95781	115.60478	10.26179	0.0867279	0.18586490	3.0409162	20	8 18.9	20.4
443072 2013 GX_{14}	16.6	X	325.39916	25.11147	357.84026	5.96929	0.0762394	0.20038630	2.8921714	20	10 4.5	20.2
443073 2013 GC_{20}	15.7	X	308.55575	158.29866	187.04055	15.90316	0.0816321	0.17330686	3.1860962	20	7 15.1	20.2
443074 2013 GQ_{25}	15.5	X	132.18393	214.50843	309.06537	5.02512	0.0499240	0.17750843	3.1356198	20	8 2.3	20.0
443075 2013 GV_{25}	16.1	X	199.99326	21.30783	77.72445	14.88422	0.0893291	0.18184424	3.0855767	20	7 30.0	21.0
443076 2013 GP_{27}	16.0	X	201.19716	49.88077	56.25112	10.57338	0.0298697	0.18667720	3.0320884	20	8 16.1	20.5
443077 2013 GC_{28}	15.8	X	229.07201	333.21966	97.04341	10.81004	0.0918482	0.18381474	3.0634855	20	7 24.1	20.3
443078 2013 GF_{36}	15.5	X	357.26236	298.30687	16.70689	16.58256	0.1078345	0.17635805	3.1492408	20	8 30.9	19.6
443079 2013 GH_{37}	15.8	X	161.78312	71.88199	58.13026	11.56386	0.0365774	0.17495515	3.1660533	20	7 27.4	20.6
443080 2013 GD_{43}	16.5	X	160.12251	93.96614	36.96928	5.39475	0.1012697	0.17597336	3.1538287	20	7 26.9	21.5
443081 2013 GM_{45}	15.6	X	129.79933	348.69745	171.39610	17.28175	0.0595496	0.17260791	3.1946915	20	7 24.6	20.6
443082 2013 GO_{62}	15.6	X	141.65539	104.24778	26.73092	8.73982	0.1052104	0.17032360	3.2231920	20	7 7.6	20.7
443083 2013 GG_{64}	15.7	X	131.28261	22.37857	172.35092	18.29281	0.1095619	0.18719862	3.0264555	20	9 13.8	20.4
443084 2013 GD_{68}	15.9	X	142.57380	359.79318	140.00190	11.52254	0.1555843	0.17560009	3.1582965	20	7 20.6	21.0
443085 2013 GN_{68}	16.0	X	156.65601	345.90711	147.35804	2.33131	0.0684665	0.17516397	3.1635366	20	7 23.5	20.7
443086 2013 GQ_{69}	15.2	X	279.96513	125.14235	121.50891	6.91234	0.1623914	0.12384087	3.9862088	20	2 4.2	20.9
443087 2013 GC_{117}	16.1	X	162.14495	313.44948	172.49917	10.35777	0.0709852	0.17526725	3.1622937	20	7 19.2	21.1
443088 2013 GH_{117}	16.7	X	306.56483	276.88035	135.65204	3.00298	0.0697759	0.20229191	2.8739798	20	10 18.0	20.2
443089 2013 GD_{128}	17.2	X	293.29290	341.60273	129.50984	14.96111	0.1864207	0.23433301	2.6056359	20	12 14.7	20.0
443090 2013 GV_{128}	16.1	X	92.31110	72.64574	126.68909	12.98861	0.0681119	0.17749721	3.1357519	20	8 2.6	20.5
443091 2013 HT_{1}	16.2	X	193.66048	118.55450	70.01090	11.47695	0.0863514	0.20669867	2.8329849	20	11 13.4	20.4
443092 2013 HV_{4}	16.1	X	80.83619	332.77573	45.48390	15.49467	0.1412799	0.24383893	2.5374687	20	—	—
443093 2013 HO_{9}	16.0	X	157.56835	5.05552	140.67028	16.67961	0.0505245	0.18327939	3.0694482	20	8 9.3	20.4
443094 2013 HN_{15}	15.4	X	127.39308	5.31276	161.00493	20.13069	0.0571970	0.17068458	3.2186458	20	7 29.9	20.4
443095 2013 HB_{18}	15.8	X	254.76235	308.91331	163.37363	10.80485	0.1043630	0.20323379	2.8650933	20	10 19.3	19.7
443096 2013 HE_{21}	16.5	X	142.77051	290.44619	203.35087	9.55385	0.1709642	0.17251565	3.1958303	20	7 12.9	21.8
443097 2013 HY_{48}	16.6	X	313.59783	100.95716	264.12247	3.95589	0.1108857	0.17748572	3.1358872	20	8 16.0	20.6
443098 2013 HX_{110}	17.3	X	261.13206	226.89136	169.32243	0.41037	0.1764448	0.17397310	3.1779567	20	7 5.8	21.9
443099 2013 HR_{150}	15.9	X	45.91540	165.96766	39.87777	10.78396	0.0319632	0.15507859	3.4311114	20	6 4.4	20.7
443100 2013 JB_{25}	16.2	X	143.15278	42.90338	113.21759	8.55829	0.1312900	0.17909005	3.1171311	20	8 10.8	21.1
443101 2013 JM_{31}	15.5	X	108.78063	99.49718	77.02234	16.07984	0.0784516	0.17452007	3.1713132	20	7 27.4	20.3
443102 2013 WS	17.8	X	308.28844	347.75011	244.47789	18.34430	0.0528769	0.35197074	1.9866972	20	1 25.4	20.4
443103 2013 WT_{67}	18.0	X	101.24782	99.03998	322.76658	21.46957	0.1921960	0.93607858	1.0349702	20	—	—
443104 2013 XK_{22}	24.3	X	308.32858	265.71915	268.36467	6.99346	0.2032912	0.92179202	1.0456365	20	—	—
443105 2013 YK_{13}	17.4	X	310.71048	192.81756	266.13389	6.13603	0.0648399	0.28341070	2.2954010	20	—	—
443106 2013 YA_{20}	17.7	X	282.47781	224.78390	241.58761	3.43625	0.1345978	0.27363046	2.3497758	20	12 4.1	19.9
443107 2013 YQ_{44}	17.0	X	261.26667	198.96389	271.77234	5.70626	0.0628790	0.26660354	2.3908855	20	11 10.8	19.8
443108 2013 YY_{54}	17.4	X	118.41946	153.31838	120.07568	13.63903	0.1112467	0.27101286	2.3648819	20	12 20.8	21.0
443109 2013 YG_{69}	17.3	X	220.43410	212.69416	314.56143	5.30566	0.1153537	0.26238903	2.4164191	20	11 21.6	20.5
443110 2013 YB_{73}	16.6	X	181.80432	11.91343	114.50555	22.77583	0.0549567	0.23803061	2.5785814	20	8 20.6	20.5
443111 2013 YZ_{73}	16.8	X	192.41181	341.76262	135.98813	10.04759	0.0885794	0.23292679	2.6161126	20	8 16.6	20.7
443112 2013 YV_{84}	18.4	X	335.60823	28.69560	302.66970	19.36278	0.0749213	0.39284369	1.8463876	20	8 31.5	20.0
443113 2013 YQ_{88}	18.0	X	243.00867	221.40018	323.96393	5.21523	0.1181045	0.28000813	2.3139588	20	—	—
443114 2013 YL_{96}	18.0	X	257.09913	139.24970	47.13684	0.35323	0.1430020	0.28694305	2.2765241	20	—	—
443115 2014 AU_{6}	16.5	X	111.64516	36.91836	111.00982	13.61952	0.0470247	0.21483008	2.7610397	20	6 20.4	20.3
443116 2014 AQ_{19}	18.1	X	270.21741	50.29596	130.05192	7.32099	0.0414062	0.29123709	2.2540918	20	—	—
443117 2014 AE_{24}	18.4	X	272.25819	31.04177	150.89850	1.24291	0.1184173	0.29312006	2.2444280	20	—	—
443118 2014 AA_{27}	16.9	X	166.74570	324.46978	142.49432	13.17542	0.1584726	0.21916348	2.7245237	20	7 4.5	21.5
443119 2014 AN_{32}	17.7	X	211.67842	286.46144	138.29660	24.32281	0.0129393	0.37791988	1.8946815	20	7 14.9	19.7
443120 2014 AU_{32}	17.6	X	356.03283	305.90584	311.17862	18.03977	0.0580228	0.36783986	1.9291390	20	6 4.4	19.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
443121 2014 AW_{43}	17.3	X	172.16686	276.91007	131.51079	24.94767	0.1198213	0.35378849	1.9798863	20	5 2.1	20.7
443122 2014 AG_{45}	17.8	X	234.15277	296.74571	285.34494	6.41942	0.0709527	0.29960061	2.2119447	20	—	—
443123 2014 AG_{46}	17.5	X	250.27921	26.92793	313.85091	17.85537	0.0711541	0.36114680	1.9529009	20	4 7.2	20.3
443124 2014 AH_{50}	17.2	X	173.96609	7.40542	253.81201	7.03852	0.1682304	0.27488913	2.3425975	20	—	—
443125 2014 AS_{51}	17.7	X	97.03169	208.96975	334.43650	19.99964	0.0557198	0.37640797	1.8997517	20	8 7.3	19.7
443126 2014 AN_{54}	17.8	X	297.74744	222.69811	307.27852	5.52834	0.0966749	0.30324853	2.1941699	20	—	—
443127 2014 BK_{8}	17.9	X	206.64812	17.70755	64.38409	20.54653	0.0989589	0.38428224	1.8737106	20	7 29.7	20.5
443128 2014 BN_{8}	17.9	X	338.76298	311.26726	329.72793	18.17334	0.0563438	0.36905963	1.9248860	20	6 14.2	20.0
443129 2014 BS_{8}	18.2	X	285.42177	49.30658	321.33007	15.08313	0.0945579	0.38618104	1.8675637	20	8 6.6	19.3
443130 2014 BA_{9}	17.8	X	78.99842	199.47345	354.07902	19.55777	0.0576650	0.37011970	1.9212089	20	7 29.8	20.1
443131 2014 BL_{9}	17.8	X	319.76642	315.83795	337.02155	18.91203	0.0540370	0.36498179	1.9391969	20	5 20.9	20.2
443132 2014 BT_{12}	17.3	X	135.18101	228.23455	319.79305	4.14146	0.1848530	0.23112380	2.6297004	20	9 15.6	21.7
443133 2014 BW_{16}	17.4	X	163.95597	154.59643	73.16378	5.82999	0.1890729	0.26356092	2.4092509	20	12 3.0	21.3
443134 2014 BL_{19}	17.3	X	223.11830	285.35691	298.73671	4.77832	0.1300376	0.28495982	2.2870744	20	—	—
443135 2014 BJ_{21}	16.8	X	159.02989	6.26325	138.47360	14.37516	0.0845736	0.22660300	2.6645607	20	8 14.2	20.7
443136 2014 BP_{21}	16.6	X	166.20316	323.81253	140.84999	14.12057	0.1530380	0.21610061	2.7502071	20	7 1.3	21.2
443137 2014 BB_{22}	17.8	X	211.73565	72.16434	163.54219	2.63835	0.1842364	0.27989464	2.3145843	20	—	—
443138 2014 BE_{25}	17.4	X	216.34963	275.71598	125.78039	23.91260	0.1080478	0.36612315	1.9351647	20	6 8.8	20.3
443139 2014 BV_{27}	18.1	X	219.33055	264.02273	324.71127	0.66578	0.1706733	0.28928956	2.2641970	20	—	—
443140 2014 BG_{29}	17.9	X	263.84446	40.44666	147.67331	3.40222	0.0951641	0.29042783	2.2582771	20	—	—
443141 2014 BN_{34}	18.1	X	138.23005	135.59332	321.69247	17.60248	0.1170963	0.35739182	1.9665560	20	5 15.4	21.0
443142 2014 BA_{35}	18.1	X	248.64593	110.32835	93.11794	2.38720	0.1599345	0.28439335	2.2901104	20	—	—
443143 2014 BB_{37}	17.6	X	164.17184	93.48304	148.94833	5.42543	0.1486423	0.26040494	2.4286778	20	12 22.9	21.4
443144 2014 BM_{38}	16.5	X	306.88078	17.10315	334.72846	5.72778	0.0399771	0.21960237	2.7208924	20	8 2.6	19.9
443145 2014 BB_{40}	17.6	X	229.26714	173.66219	4.43727	5.16513	0.1376685	0.26998868	2.3708588	20	12 17.2	20.5
443146 2014 BY_{44}	17.9	X	195.63351	48.08568	137.12263	3.10909	0.1453575	0.25501497	2.4627799	20	11 13.6	21.5
443147 2014 BG_{45}	17.6	X	230.89398	81.75678	140.35924	4.41167	0.0424034	0.28835714	2.2690753	20	—	—
443148 2014 BS_{47}	17.8	X	224.12695	303.28762	305.08713	0.74583	0.1446048	0.29239022	2.2481614	20	—	—
443149 2014 BU_{57}	18.0	X	195.07424	94.17054	350.15091	20.60662	0.0843566	0.37832207	1.8933385	20	7 22.2	20.6
443150 2014 BC_{63}	17.0	X	142.24007	188.67244	354.12484	12.30702	0.2781314	0.21637502	2.7478813	20	9 17.1	22.0
443151 2014 CB	16.4	X	232.02517	17.67543	53.02220	6.06668	0.0087712	0.22214614	2.7000815	20	8 12.7	20.1
443152 2014 CY_{3}	18.0	X	230.04016	141.58307	52.09016	3.09278	0.1359924	0.27236942	2.3570230	20	—	—
443153 2014 CR_{5}	16.8	X	73.56206	121.36229	113.54854	9.51413	0.0803254	0.22705797	2.6610000	20	9 4.1	20.5
443154 2014 CQ_{6}	17.8	X	177.96499	225.89233	26.10047	2.61052	0.1571011	0.27646247	2.3337013	20	—	—
443155 2014 CU_{7}	16.4	X	72.69884	300.40166	323.69709	29.92040	0.2623791	0.23035639	2.6355375	20	10 11.6	21.2
443156 2014 CF_{8}	18.1	X	248.65756	273.72652	313.60327	2.28854	0.0958994	0.29377564	2.2410877	20	—	—
443157 2014 CF_{9}	17.6	X	93.43865	201.31857	60.33163	2.44922	0.1829077	0.24288470	2.5441103	20	11 10.3	21.5
443158 2014 CX_{9}	18.0	X	92.19193	127.76702	2.87056	8.30573	0.1893090	0.34997321	1.9942496	20	5 18.8	20.3
443159 2014 CV_{15}	17.4	X	173.30399	276.04377	319.22566	1.89750	0.1419780	0.25820773	2.4424362	20	12 23.0	21.1
443160 2014 CA_{17}	17.7	X	259.05455	242.41667	302.32107	6.35439	0.0431056	0.28408853	2.2917483	20	—	—
443161 2014 CH_{17}	17.6	X	243.18786	181.99634	356.10491	2.49124	0.1358846	0.27113165	2.3641910	20	—	—
443162 2014 CQ_{17}	16.3	X	227.29128	270.01655	140.13080	16.51096	0.1945330	0.21961700	2.7207716	20	6 19.1	21.0
443163 2014 CD_{19}	17.5	X	197.22845	177.78438	17.26696	4.85080	0.1644942	0.25296982	2.4760357	20	11 23.2	21.2
443164 2014 CT_{19}	17.9	X	186.96211	107.89881	334.12553	18.41474	0.0895716	0.37432297	1.9067996	20	7 2.5	20.5
443165 2014 CY_{21}	17.3	X	211.97351	43.64327	142.48998	9.21297	0.0898060	0.26332122	2.4107128	20	12 12.2	20.6
443166 2014 CA_{23}	16.9	X	206.17553	127.11872	71.55357	9.58348	0.1758005	0.26018998	2.4300153	20	12 8.1	20.1
443167 2014 DY_{5}	17.9	X	297.88887	24.55384	126.23873	4.38415	0.1258821	0.28402402	2.2920953	20	—	—
443168 2014 DA_{7}	17.0	X	121.93667	189.42436	87.33317	7.79391	0.0993379	0.25691504	2.4506222	20	12 24.4	20.7
443169 2014 DE_{7}	17.6	X	273.77699	60.81749	84.74942	5.55718	0.0994983	0.27163749	2.3612551	20	—	—
443170 2014 DG_{9}	17.7	X	210.90663	243.31702	304.99995	0.72726	0.1296817	0.26184075	2.4197912	20	12 6.6	21.1
443171 2014 DA_{15}	16.5	X	105.91192	172.43825	95.66289	8.08036	0.2045234	0.24711780	2.5149732	20	12 1.5	20.6
443172 2014 DN_{15}	18.0	X	295.99140	124.78212	43.61637	5.30072	0.0716607	0.28987353	2.2611550	20	—	—
443173 2014 DT_{15}	16.9	X	154.06467	116.78583	127.28015	9.39458	0.1785698	0.25217882	2.4812107	20	12 13.6	21.0
443174 2014 DJ_{16}	17.2	X	152.11646	167.40369	110.68591	3.48091	0.1726251	0.26500512	2.4004898	20	—	—
443175 2014 DT_{18}	17.1	X	120.63079	281.51941	311.30869	4.00790	0.1003241	0.24152244	2.5536678	20	10 24.9	21.0
443176 2014 DU_{18}	17.5	X	195.76913	320.78608	253.97604	1.67925	0.1478905	0.26482944	2.4015513	20	12 21.6	20.8
443177 2014 DF_{21}	16.7	X	264.42649	232.29208	110.06591	4.16692	0.0595578	0.19165204	2.9793881	20	5 19.5	21.0
443178 2014 DG_{21}	17.1	X	162.93224	161.06947	26.25288	4.76460	0.0841725	0.23670293	2.5882147	20	10 13.5	20.9
443179 2014 DX_{24}	17.7	X	153.08162	51.47455	137.92142	1.65057	0.1247985	0.23687496	2.5869614	20	10 5.6	21.7
443180 2014 DC_{26}	18.2	X	292.14767	139.12004	30.89203	3.90221	0.0968013	0.28760604	2.2730241	20	—	—
443181 2014 DF_{27}	17.8	X	208.49604	173.18641	34.48629	4.84324	0.1724964	0.26175592	2.4203140	20	12 22.9	21.2
443182 2014 DX_{28}	17.4	X	135.37015	65.18082	150.91716	12.42318	0.1393101	0.24067593	2.5596521	20	10 25.7	21.6
443183 2014 DH_{29}	16.6	X	28.35609	293.80810	324.83307	10.21939	0.3069481	0.20315229	2.8658595	20	8 30.3	19.6
443184 2014 DR_{30}	17.9	X	215.01913	336.83541	277.35014	6.70776	0.0998918	0.28997044	2.2606512	20	—	—
443185 2014 DB_{34}	17.3	X	149.80753	135.02521	125.09684	7.04890	0.0954728	0.26166187	2.4208939	20	—	—
443186 2014 DU_{37}	17.5	X	152.37974	134.19197	116.95929	3.55466	0.1564912	0.25625681	2.4548169	20	12 21.3	21.3
443187 2014 DM_{38}	17.1	X	123.97323	282.18147	293.42028	7.16494	0.1285876	0.23213718	2.6220416	20	10 4.7	21.3
443188 2014 DY_{38}	17.7	X	217.83878	258.46103	325.31719	6.76929	0.0702047	0.28784208	2.2717813	20	—	—
443189 2014 DY_{39}	17.4	X	50.90300	136.65574	119.30641	7.22927	0.1027558	0.22655034	2.6649736	20	9 4.4	20.8
443190 2014 DC_{43}	18.0	X	42.95839	305.18581	126.90407	7.25448	0.0647025	0.29643783	2.2276500	20	—	—
443191 2014 DD_{46}	17.4	X	188.42558	114.34527	110.44458	6.56084	0.0692898	0.26261774	2.4150160	20	—	—
443192 2014 DJ_{47}	17.4	X	253.46765	213.13152	336.78550	6.02133	0.0679994	0.27441532	2.3452932	20	—	—
443193 2014 DA_{48}	17.2	X	202.12529	165.14991	356.63908	5.69495	0.0331053	0.23933128	2.5692305	20	10 28.6	20.6
443194 2014 DJ_{49}	16.8	X	147.12585	233.25443	50.02917	3.37292	0.1694938	0.26346622	2.4098282	20	—	—
443195 2014 DK_{50}	18.0	X	268.79016	77.37023	91.10470	3.45406	0.1065390	0.27506571	2.3415948	20	—	—
443196 2014 DS_{52}	17.7	X	261.28888	92.98261	90.45905	2.22481	0.1015308	0.27671637	2.3322735	20	—	—
443197 2014 DP_{53}	17.3	X	162.02855	103.17292	160.80316	2.14295	0.1634990	0.26056421	2.4276880	20	—	—
443198 2014 DG_{56}	16.4	X	359.67051	74.01095	153.66750	12.68185	0.0571153	0.17925696	3.1151960	20	5 5.7	20.7
443199 2014 DR_{58}	17.2	X	242.53646	61.69690	140.21548	8.04082	0.0487631	0.27620787	2.3351351	20	—	—
443200 2014 DZ_{65}	17.9	X	266.38286	68.53071	115.97550	5.04723	0.1235777	0.27812126	2.3244128	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
443201 2014 DF_{67}	17.5	X	143.90998	102.53883	107.55039	5.96500	0.1562524	0.23199968	2.6230775	20	10 23.9	21.8
443202 2014 DH_{68}	17.2	X	83.14769	217.55176	84.16695	4.28435	0.0659987	0.24562466	2.5251552	20	12 9.6	20.6
443203 2014 DT_{68}	16.9	X	156.41547	164.82323	32.79240	9.66324	0.0722607	0.23450225	2.6043821	20	10 19.8	20.5
443204 2014 DE_{69}	16.9	X	77.18242	278.28746	52.42995	7.12569	0.1522546	0.25409878	2.4686963	20	—	—
443205 2014 DP_{70}	18.3	X	284.29014	352.34220	133.81814	4.46023	0.1594278	0.26603411	2.3942959	20	12 31.9	20.4
443206 2014 DQ_{72}	17.6	X	207.61658	53.31313	112.31280	5.28642	0.0914489	0.24392522	2.5368702	20	11 6.9	21.2
443207 2014 DB_{73}	17.9	X	335.66872	7.40871	117.16085	7.13413	0.1393732	0.28758410	2.2731397	20	—	—
443208 2014 DW_{73}	18.5	X	349.88622	39.03194	100.34976	6.15947	0.1250561	0.29847952	2.2174799	20	—	—
443209 2014 DH_{81}	17.8	X	189.99362	143.72881	133.24195	5.28513	0.0890624	0.28575191	2.2828460	20	—	—
443210 2014 DC_{83}	16.8	X	108.94566	37.45996	224.79400	7.82211	0.1580527	0.24561804	2.5252006	20	11 24.3	20.8
443211 2014 DD_{85}	16.5	X	156.14204	338.05703	119.00912	3.15699	0.0534776	0.19661934	2.9289945	20	6 7.8	20.8
443212 2014 DX_{85}	17.6	X	180.16564	274.45712	341.02202	6.16830	0.0915298	0.27219261	2.3580436	20	—	—
443213 2014 DB_{88}	17.4	X	126.90771	271.15984	358.74404	2.16509	0.1677518	0.25702830	2.4499023	20	12 21.2	21.3
443214 2014 DN_{88}	17.2	X	15.00003	7.60921	311.26428	1.82996	0.0652378	0.23592855	2.5938751	20	9 30.6	20.3
443215 2014 DQ_{90}	17.1	X	26.14996	217.26097	114.05600	3.91526	0.0403232	0.23071691	2.6327913	20	10 31.7	20.5
443216 2014 DL_{93}	18.4	X	354.48281	3.49609	127.08930	1.63226	0.0597562	0.30074113	2.2063488	20	—	—
443217 2014 DF_{95}	17.8	X	53.78876	198.80738	220.04984	5.63861	0.0606770	0.29198219	2.2502554	20	—	—
443218 2014 DT_{96}	17.5	X	175.02699	177.72726	109.63649	3.38446	0.2116027	0.27522506	2.3406909	20	—	—
443219 2014 DQ_{97}	17.3	X	35.43890	115.28568	293.56571	3.85082	0.0859293	0.28362251	2.2942580	20	—	—
443220 2014 DZ_{97}	16.8	X	226.25093	75.41845	0.00185	2.49832	0.0998288	0.22134009	2.7066327	20	7 29.0	20.8
443221 2014 DA_{101}	17.8	X	195.01623	261.80029	331.34519	7.61200	0.0727452	0.27612121	2.3356237	20	—	—
443222 2014 DG_{103}	18.4	X	328.26559	152.74598	20.98833	1.45963	0.0530719	0.31000887	2.1621541	20	—	—
443223 2014 DX_{103}	17.2	X	74.08225	297.35298	353.59992	8.43405	0.1579579	0.23864590	2.5741473	20	11 21.8	21.2
443224 2014 DF_{104}	17.0	X	323.11191	186.04743	168.92690	6.43289	0.0607326	0.22540703	2.6739775	20	8 28.9	20.4
443225 2014 DD_{105}	18.5	X	269.04020	45.08150	158.14233	5.31918	0.0701372	0.29087171	2.2559790	20	—	—
443226 2014 DY_{105}	17.9	X	229.41733	146.76943	24.28236	1.67531	0.1284843	0.26008143	2.4306914	20	12 6.9	21.1
443227 2014 DW_{106}	17.6	X	127.78726	103.73001	186.15585	0.87967	0.1723495	0.26002244	2.4310590	20	—	—
443228 2014 DZ_{108}	17.3	X	95.30607	164.16540	94.38509	4.84578	0.0886035	0.22773209	2.6557462	20	10 30.6	21.1
443229 2014 DV_{111}	18.4	X	335.07629	22.63543	117.52949	4.17089	0.0817678	0.29820127	2.2188591	20	—	—
443230 2014 DN_{113}	17.6	X	233.37760	241.74938	314.68712	1.09498	0.1254152	0.27164135	2.3612327	20	—	—
443231 2014 DO_{115}	17.0	X	63.69176	150.56783	185.83316	9.92454	0.1659961	0.25221012	2.4810054	20	—	—
443232 2014 DZ_{116}	16.5	X	77.92855	302.19681	337.15218	13.05285	0.2735105	0.23148725	2.6269471	20	11 19.3	21.1
443233 2014 DR_{117}	17.2	X	205.39524	236.86604	330.32377	13.04211	0.0942876	0.26460539	2.4029068	20	—	—
443234 2014 DM_{119}	17.4	X	81.88154	85.20865	169.55049	5.49484	0.1144057	0.22696218	2.6617487	20	10 12.8	21.2
443235 2014 DP_{119}	17.4	X	65.74186	198.43336	100.20997	3.64273	0.1888835	0.23353066	2.6116007	20	11 27.9	21.2
443236 2014 DJ_{120}	17.3	X	201.82185	310.09449	286.80375	8.28373	0.1096018	0.28086184	2.3092674	20	—	—
443237 2014 DR_{121}	17.4	X	130.39527	45.61830	175.13802	13.31661	0.2020387	0.23197508	2.6232630	20	10 25.6	21.9
443238 2014 DR_{122}	17.8	X	333.09177	146.28440	5.98647	5.59783	0.0594758	0.29871379	2.2163203	20	—	—
443239 2014 DX_{122}	18.0	X	273.97752	94.16760	50.38101	1.90418	0.1263449	0.27050770	2.3678251	20	—	—
443240 2014 DE_{124}	17.5	X	215.34875	178.08940	17.22613	2.57839	0.1595061	0.26114049	2.4241151	20	12 16.7	20.9
443241 2014 DO_{124}	17.8	X	222.81420	97.28800	104.44637	2.29668	0.1174391	0.26761669	2.3848474	20	—	—
443242 2014 DZ_{127}	16.8	X	293.01170	220.93669	156.13205	6.06032	0.0523213	0.22206165	2.7007663	20	8 14.1	20.2
443243 2014 DE_{132}	16.6	X	58.17905	336.62997	175.73437	9.33982	0.0833129	0.17741527	3.1367173	20	4 23.5	20.8
443244 2014 DE_{133}	17.4	X	269.71875	274.05543	166.98054	11.91595	0.1572345	0.24515223	2.5283983	20	9 26.7	20.4
443245 2014 DG_{135}	17.4	X	103.24885	106.28503	103.99282	4.42254	0.1314891	0.21719906	2.7409267	20	9 11.2	21.5
443246 2014 DL_{137}	16.7	X	80.54112	310.85542	6.10301	8.49765	0.1618157	0.25290732	2.4764436	20	—	—
443247 2014 DH_{141}	18.1	X	222.37304	60.32394	120.84509	2.56492	0.1130138	0.26350531	2.4095899	20	12 14.6	21.2
443248 2014 DW_{141}	17.4	X	236.85271	310.87654	264.98202	5.83973	0.1739198	0.28005515	2.3136998	20	—	—
443249 2014 DC_{142}	17.7	X	252.09542	53.35544	116.30552	5.56178	0.1659622	0.27163219	2.3612858	20	—	—
443250 2014 DG_{142}	16.5	X	100.02666	310.63189	278.07086	8.16909	0.2239020	0.22010507	2.7167480	20	10 2.9	21.1
443251 2014 EU_{1}	17.2	X	181.32048	189.53233	50.24649	5.49484	0.1271534	0.26356487	2.4092269	20	—	—
443252 2014 EJ_{3}	17.6	X	353.09190	227.24421	163.33670	7.00587	0.1210483	0.25889208	2.4381301	20	12 18.9	20.3
443253 2014 ES_{4}	18.1	X	282.17658	5.49912	129.32300	3.05146	0.1575274	0.27003310	2.3705987	20	—	—
443254 2014 ET_{5}	18.8	X	50.63851	12.37919	74.04475	1.35517	0.0987545	0.30808359	2.1711526	20	—	—
443255 2014 EY_{6}	17.0	X	88.94754	130.88833	161.71763	7.91194	0.2596660	0.23793009	2.5793076	20	12 17.7	21.5
443256 2014 EA_{7}	17.4	X	147.20736	204.05862	6.73828	3.00688	0.1379816	0.23603278	2.5931114	20	10 24.9	21.5
443257 2014 EB_{7}	17.5	X	185.30882	112.67158	137.92777	1.86875	0.1508044	0.26664751	2.3906226	20	—	—
443258 2014 ER_{9}	18.1	X	355.18976	9.55242	129.92096	5.59989	0.0560983	0.30429539	2.1891346	20	—	—
443259 2014 EB_{11}	17.0	X	92.72162	280.54305	50.70037	5.66029	0.2300733	0.25698497	2.4501776	20	—	—
443260 2014 EW_{11}	17.2	X	269.01316	67.48801	109.03226	6.57264	0.0834663	0.27747560	2.3280172	20	—	—
443261 2014 EG_{13}	17.4	X	119.39169	173.31362	120.56744	5.67354	0.1848835	0.25799130	2.4438020	20	—	—
443262 2014 EF_{14}	17.4	X	178.72929	234.91854	171.06422	23.74606	0.1092581	0.34585670	2.0100426	20	4 29.5	20.4
443263 2014 EE_{15}	17.7	X	167.99963	193.39144	2.78590	5.03049	0.1968878	0.24030220	2.5623053	20	10 24.4	22.0
443264 2014 EF_{16}	16.8	X	184.61020	18.74537	57.29860	3.07701	0.0398883	0.19957699	2.8999849	20	6 13.5	20.9
443265 2014 EW_{17}	17.7	X	169.30915	204.30766	48.74066	5.90153	0.0861622	0.26666799	2.3905003	20	—	—
443266 2014 EJ_{18}	17.1	X	105.77356	69.38468	143.92306	12.88212	0.1132306	0.22130824	2.7068924	20	9 17.0	21.2
443267 2014 EL_{18}	18.0	X	319.39973	79.67402	96.07817	4.69132	0.0978990	0.30171483	2.2015993	20	—	—
443268 2014 ES_{18}	18.0	X	192.25971	242.84174	11.04058	6.05073	0.0992350	0.27564432	2.3383168	20	—	—
443269 2014 ET_{18}	16.8	X	349.34686	221.08742	133.91981	5.62401	0.1256671	0.23662066	2.5888146	20	10 19.6	19.6
443270 2014 ET_{21}	16.9	X	59.35097	309.54293	313.05299	6.57542	0.1727995	0.21728513	2.7402028	20	9 28.2	20.7
443271 2014 ED_{26}	16.3	X	347.39594	141.59594	131.31998	1.73849	0.1411425	0.18952139	3.0016766	20	6 9.2	19.7
443272 2014 EE_{27}	17.4	X	71.80336	218.73069	93.92392	3.35524	0.1061337	0.24700782	2.5157197	20	12 14.9	21.0
443273 2014 EL_{27}	17.0	X	67.20223	258.20673	244.42300	3.19938	0.0589409	0.17840776	3.1250734	20	4 17.2	21.3
443274 2014 ES_{28}	17.6	X	187.25338	139.97809	71.45376	5.19099	0.0957113	0.25652124	2.4531296	20	12 11.8	21.0
443275 2014 EQ_{30}	16.2	X	262.19007	156.02164	157.28549	10.27632	0.0333249	0.17476744	3.1683200	20	4 16.3	20.8
443276 2014 EF_{32}	16.8	X	212.55933	357.17199	151.48387	14.28423	0.0928800	0.24081029	2.5586999	20	10 23.8	20.6
443277 2014 EY_{33}	17.4	X	134.08833	94.45547	106.37083	5.42198	0.0934454	0.22672214	2.6636272	20	10 1.0	21.4
443278 2014 EQ_{36}	17.4	X	122.72301	199.50653	56.96950	5.76240	0.1541204	0.24139509	2.5545658	20	11 28.3	21.3
443279 2014 ET_{36}	17.7	X	163.68903	244.90492	89.73176	5.43179	0.1264790	0.29759492	2.2218720	20	1 8.2	20.7
443280 2014 EA_{46}	17.4	X	110.50215	196.93071	121.76215	4.55078	0.0400907	0.27170969	2.3608368	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
443281 2014 EB_{46}	17.6	X	203.79702	39.58429	139.99695	6.38506	0.0696016	0.25207778	2.4818737	20	11 24.4	21.1
443282 2014 ER_{46}	17.4	X	189.96992	188.39520	83.03260	6.71774	0.1121742	0.28106936	2.3081306	20	—	—
443283 2014 EZ_{47}	16.5	X	82.05705	243.13136	20.94533	12.82110	0.2409075	0.22289068	2.6940653	20	11 2.2	20.9
443284 2014 EH_{48}	16.5	X	70.49373	265.67873	37.16043	11.25266	0.1311823	0.24240781	2.5474459	20	12 1.2	20.3
443285 2014 EM_{48}	17.5	X	333.85433	23.32451	83.32951	7.53721	0.0562821	0.27970277	2.3156427	20	—	—
443286 2014 EO_{49}	17.1	X	118.43049	130.45106	119.79917	5.38011	0.1104550	0.24006304	2.5640068	20	11 16.9	21.1
443287 2014 ES_{51}	18.0	X	235.94409	251.75174	170.44317	22.87549	0.0875390	0.37091096	1.9184756	20	8 2.4	20.4
443288 2014 FB_{1}	17.0	X	112.35319	164.18851	56.18236	3.70432	0.2003861	0.22066726	2.7121318	20	10 7.6	21.5
443289 2014 FD_{2}	16.7	X	51.24563	224.26290	96.15706	10.80303	0.2106282	0.23810160	2.5780688	20	12 13.1	20.4
443290 2014 FH_{3}	16.0	X	178.00239	327.87155	75.98639	10.20329	0.1348437	0.18499718	3.0504177	20	4 30.7	21.0
443291 2014 FP_{5}	17.2	X	96.85787	186.31387	52.21852	4.75604	0.1491990	0.22639796	2.6661692	20	10 12.3	21.2
443292 2014 FT_{5}	17.3	X	100.56050	183.20076	33.33919	6.13386	0.2147316	0.21548439	2.7554477	20	9 23.6	21.7
443293 2014 FS_{6}	16.2	X	172.78832	303.93308	98.60518	9.89399	0.0211229	0.17707830	3.1406954	20	4 22.8	20.8
443294 2014 FV_{14}	17.7	X	211.18847	136.77816	98.62320	7.03648	0.0623463	0.27605022	2.3360241	20	—	—
443295 2014 FY_{14}	16.3	X	11.99077	166.57177	115.60351	9.55632	0.1349751	0.20464010	2.8519520	20	8 10.1	19.5
443296 2014 FB_{15}	16.8	X	133.22927	111.96131	113.40829	9.77097	0.0608489	0.23753470	2.5821691	20	11 2.2	20.7
443297 2014 FD_{15}	16.8	X	94.16316	0.84262	258.91391	2.79446	0.0845342	0.23211837	2.6221833	20	10 28.5	20.4
443298 2014 FF_{20}	18.0	X	227.87551	319.72355	260.58454	3.68570	0.1773934	0.27775834	2.3264371	20	—	—
443299 2014 FK_{20}	16.8	X	341.18760	68.35316	267.69930	4.82635	0.0633800	0.22923964	2.6440900	20	8 29.6	19.9
443300 2014 FN_{20}	16.4	X	98.44769	273.61510	305.07056	10.61224	0.1130020	0.22430308	2.6827439	20	9 8.9	20.4
443301 2014 FX_{20}	16.8	X	96.21675	141.33008	90.41128	4.93209	0.1292970	0.21548577	2.7554360	20	9 30.9	20.9
443302 2014 FC_{21}	18.0	X	122.06446	85.46977	179.36599	4.83407	0.2330381	0.24254815	2.5464632	20	12 9.9	22.4
443303 2014 FJ_{23}	16.5	X	138.94121	260.36335	324.04932	11.64666	0.1804078	0.23648968	2.5897703	20	10 29.7	21.0
443304 2014 FD_{24}	16.6	X	71.45546	302.49695	319.49884	12.52705	0.1323633	0.22262358	2.6962196	20	10 3.8	20.7
443305 2014 FZ_{26}	18.4	X	307.61613	322.39976	203.92085	5.80573	0.0625119	0.29020795	2.2594176	20	—	—
443306 2014 FX_{27}	17.0	X	78.49775	295.13147	295.35913	4.06454	0.1103246	0.21295023	2.7772649	20	9 2.3	20.9
443307 2014 FQ_{34}	16.2	X	48.45865	118.15652	44.94766	1.90953	0.1122549	0.17853333	3.1236079	20	4 24.8	20.1
443308 2014 FE_{35}	16.8	X	49.16833	117.39439	171.62316	11.22281	0.1884277	0.21668562	2.7452547	20	10 27.5	20.6
443309 2014 FZ_{35}	16.5	X	80.02731	90.41608	162.59846	9.23501	0.1660289	0.21597913	2.7512382	20	10 14.0	20.6
443310 2014 FY_{36}	15.5	X	224.11522	350.74663	52.46435	11.77858	0.0194653	0.18152622	3.0891795	20	6 19.8	20.0
443311 2014 FB_{37}	17.3	X	127.20956	199.14023	46.26071	3.24762	0.1232472	0.23154186	2.6265340	20	11 16.9	21.5
443312 2014 FO_{41}	16.7	X	109.32174	107.03713	106.87608	8.63078	0.1636190	0.20984302	2.8046136	20	9 26.0	21.2
443313 2014 FT_{44}	16.3	X	57.15450	165.06174	106.77211	10.38501	0.1253292	0.21421574	2.7663161	20	10 8.7	20.3
443314 2014 FG_{48}	17.5	X	179.45746	268.40557	328.80427	1.86804	0.1531296	0.25709722	2.4494644	20	12 30.5	21.1
443315 2014 FX_{48}	16.9	X	187.51891	277.43504	328.13094	10.82543	0.1555530	0.26513916	2.3996807	20	—	—
443316 2014 FC_{51}	16.9	X	336.71516	290.60990	65.50642	4.17075	0.1066543	0.23257097	2.6187802	20	9 25.9	19.8
443317 2014 FD_{52}	17.9	X	210.37506	184.49055	354.05432	2.18619	0.1368754	0.26120052	2.4237437	20	11 21.8	21.2
443318 2014 FG_{52}	16.5	X	124.36702	172.70265	48.32691	13.35429	0.1073226	0.22394715	2.6855858	20	10 17.4	20.7
443319 2014 FV_{52}	17.4	X	173.90692	136.04763	36.15609	2.04492	0.0611952	0.23223602	2.6212976	20	10 6.8	21.2
443320 2014 FT_{57}	16.8	X	191.58788	347.64942	253.79982	11.16268	0.2051088	0.25733042	2.4479843	20	—	—
443321 2014 FK_{63}	17.3	X	228.90787	209.60000	350.39199	9.23126	0.1115241	0.26734395	2.3864691	20	—	—
443322 2014 FT_{63}	17.0	X	179.41880	339.85766	274.63741	5.76385	0.0969040	0.26311929	2.4119460	20	—	—
443323 2014 FB_{64}	16.4	X	35.10492	121.44859	230.16498	8.14594	0.0586971	0.24555585	2.5256269	20	12 13.6	19.7
443324 2014 FO_{64}	18.2	X	309.14756	74.85673	54.94073	2.20122	0.1300906	0.27609109	2.3357936	20	—	—
443325 2014 FB_{65}	17.0	X	91.30844	42.18875	223.15097	4.40512	0.1321369	0.22707510	2.6608662	20	11 5.9	21.1
443326 2014 FM_{65}	16.7	X	136.66258	330.45975	236.69049	7.72719	0.0726448	0.22555783	2.6727856	20	10 5.7	20.8
443327 2014 FV_{65}	17.2	X	137.56952	106.08973	179.09908	7.27840	0.1002751	0.25618926	2.4552484	20	—	—
443328 2014 FH_{66}	17.3	X	244.40142	81.64140	104.49088	8.19204	0.1151974	0.26583701	2.3954793	20	—	—
443329 2014 FQ_{66}	17.3	X	253.66853	94.80029	155.70633	6.22017	0.0223444	0.29377476	2.2410922	20	—	—
443330 2014 FD_{67}	16.1	X	357.38341	153.79712	119.51773	14.05718	0.1936827	0.18168837	3.0873413	20	6 29.2	19.4
443331 2014 FO_{68}	16.7	X	203.40222	117.94438	75.69769	12.96356	0.0829678	0.24424522	2.5346539	20	12 6.8	20.3
443332 2014 GB	16.4	X	19.96895	266.72436	337.48733	8.86658	0.1541919	0.18442604	3.0567122	20	7 1.9	20.0
443333 2014 GE_{1}	18.3	X	336.08967	150.42836	195.17232	21.64123	0.0767412	0.37663173	1.8989992	20	10 7.6	19.5
443334 2014 GY_{3}	17.4	X	151.22918	216.07748	338.00480	2.22742	0.0596103	0.22923928	2.6440928	20	10 7.4	21.3
443335 2014 GV_{4}	17.7	X	192.86358	180.49539	353.05072	2.16397	0.0878940	0.23947858	2.5681769	20	10 28.0	21.2
443336 2014 GB_{6}	16.2	X	2.64859	261.40119	6.93867	14.08074	0.3117843	0.18090032	3.0963009	20	7 14.5	19.0
443337 2014 GV_{7}	15.9	X	296.13166	245.49219	75.63191	11.99838	0.0612504	0.17702262	3.1413540	20	6 1.6	20.0
443338 2014 GZ_{7}	15.3	X	295.03684	239.95695	83.39545	10.57024	0.0863567	0.17640153	3.1487233	20	5 30.9	19.7
443339 2014 GN_{8}	17.7	X	264.35771	15.72510	146.88365	7.25770	0.0498557	0.27318671	2.3523196	20	—	—
443340 2014 GA_{9}	16.9	X	157.72631	351.90478	186.35056	17.47445	0.1214578	0.22708605	2.6607807	20	9 23.9	21.1
443341 2014 GD_{10}	16.4	X	17.81577	259.80788	31.53494	15.96997	0.2218480	0.20003964	2.8955118	20	9 20.3	19.8
443342 2014 GM_{13}	17.3	X	137.74876	267.17237	309.86415	0.14436	0.1461138	0.22918910	2.6444787	20	10 23.5	21.5
443343 2014 GA_{14}	17.3	X	19.37782	118.52138	118.64148	4.44627	0.1507791	0.17932143	3.1144492	20	6 19.3	21.0
443344 2014 GB_{14}	17.1	X	18.52816	70.67142	168.85629	4.89361	0.0784381	0.18202209	3.0835664	20	6 15.7	21.1
443345 2014 GZ_{17}	16.5	X	43.34351	302.47340	270.04799	1.83972	0.1488542	0.18548489	3.0450682	20	6 26.6	20.2
443346 2014 GR_{20}	16.6	X	37.35038	25.94848	262.20292	2.67633	0.0648753	0.21519464	2.7579205	20	9 17.4	20.3
443347 2014 GB_{22}	16.1	X	348.18785	252.69669	352.32175	13.49735	0.0716673	0.17499117	3.1656188	20	5 1.2	20.4
443348 2014 GM_{28}	15.5	X	263.74079	154.74452	84.59540	4.00706	0.1575598	0.12557601	3.9494043	20	1 11.6	21.5
443349 2014 GA_{31}	16.8	X	322.40785	213.75085	76.23841	2.05865	0.0931638	0.17606070	3.1527855	20	5 25.2	20.8
443350 2014 GJ_{31}	17.1	X	328.53868	342.61666	36.58368	5.17433	0.0578682	0.22268755	2.6957033	20	10 11.1	20.3
443351 2014 GW_{32}	16.4	X	21.58199	98.76044	158.07868	10.57961	0.0916654	0.17988505	3.1079403	20	7 13.5	20.4
443352 2014 GY_{33}	17.2	X	80.31651	193.47130	74.41046	4.91003	0.0190742	0.22194957	2.7016755	20	10 15.7	20.9
443353 2014 GN_{35}	15.4	X	352.35815	111.19219	119.11673	26.59420	0.2191452	0.17003935	3.2267830	20	4 29.6	19.5
443354 2014 GO_{35}	16.2	X	340.20896	278.66920	15.20220	7.51359	0.2906761	0.18165371	3.0877339	20	6 10.9	19.0
443355 2014 GP_{35}	16.5	X	11.63132	62.36306	204.88585	9.63438	0.0753024	0.18773570	3.0206806	20	7 10.2	20.5
443356 2014 GF_{36}	16.7	X	8.47488	252.61613	59.88003	5.67271	0.0915563	0.21383819	2.7695712	20	9 14.9	20.1
443357 2014 GO_{36}	17.4	X	146.63275	234.87895	65.93917	5.15391	0.1811074	0.26454491	2.4032730	20	—	—
443358 2014 GX_{36}	16.2	X	351.11488	83.33357	173.53284	17.43065	0.2643067	0.17459513	3.1704041	20	5 21.5	19.5
443359 2014 GY_{37}	17.1	X	77.46412	244.27271	62.68186	6.38653	0.1387104	0.23894579	2.5719931	20	12 15.1	21.0
443360 2014 GO_{38}	16.4	X	317.42247	281.02035	11.30948	8.98655	0.0952462	0.17405509	3.1769586	20	5 17.9	20.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
443361 2014 GL_{40}	16.4	X	122.05717	178.83201	52.62869	16.35300	0.1285014	0.22522977	2.6753803	20	10 28.6	20.6
443362 2014 GM_{40}	16.2	X	97.80529	160.99786	94.56948	5.85077	0.1512313	0.22276637	2.6950674	20	11 3.4	20.4
443363 2014 GN_{40}	17.3	X	185.62429	125.80469	38.86150	2.36916	0.1542069	0.23266502	2.6180744	20	10 4.6	21.4
443364 2014 GZ_{42}	16.6	X	54.76140	332.77813	38.02297	8.67685	0.1388279	0.25085801	2.4899124	20	—	—
443365 2014 GC_{44}	16.9	X	172.98562	288.55694	257.16992	7.84612	0.1233367	0.22892754	2.6464926	20	10 16.2	21.2
443366 2014 GK_{46}	16.3	X	147.88920	126.08464	112.09607	6.56408	0.0230400	0.24288035	2.5441407	20	12 3.6	19.8
443367 2014 GO_{50}	16.5	X	153.71947	126.37131	20.31877	10.92919	0.0530470	0.20357304	2.8619094	20	8 12.8	20.8
443368 2014 GK_{53}	16.5	X	164.99160	327.93021	234.09483	1.78965	0.0711615	0.23728468	2.5839826	20	11 3.4	20.2
443369 2014 HG	15.8	X	352.92530	170.08653	103.11287	17.43104	0.0684823	0.17588375	3.1548998	20	6 21.1	19.8
443370 2014 HO	16.9	X	91.19268	215.20260	59.42696	4.62761	0.0336429	0.22888122	2.6468497	20	11 8.3	20.4
443371 2014 HM_{1}	17.1	X	255.29759	304.64321	175.75258	10.92199	0.0756432	0.24395666	2.5366523	20	11 11.9	20.4
443372 2014 HV_{1}	16.0	X	88.68027	104.21578	56.19403	13.52630	0.0958405	0.18520801	3.0481023	20	6 11.9	20.3
443373 2014 HD_{2}	16.7	X	65.39197	225.09185	61.84066	5.66604	0.0459603	0.21573040	2.7533525	20	10 23.4	20.4
443374 2014 HG_{2}	15.8	X	23.70267	29.58049	225.30219	11.55266	0.1149980	0.18099178	3.0952578	20	7 14.6	19.8
443375 2014 HN_{3}	16.4	X	319.06773	187.39061	105.47974	9.70307	0.0436370	0.17924428	3.1153429	20	5 31.1	20.6
443376 2014 HK_{5}	17.3	X	134.87264	106.47988	69.39475	4.07661	0.1041906	0.21318341	2.7752394	20	8 29.5	21.5
443377 2014 HW_{5}	16.5	X	7.06589	276.06980	15.15245	15.40436	0.2248918	0.19552607	2.9399025	20	8 28.5	19.7
443378 2014 HQ_{6}	15.7	X	359.56051	213.57841	70.09408	8.09019	0.1633942	0.18622243	3.0370229	20	7 19.3	19.1
443379 2014 HP_{7}	17.8	X	283.93562	15.63417	111.24938	4.09216	0.1394785	0.25770967	2.4455821	20	12 30.5	20.0
443380 2014 HU_{7}	17.2	X	51.52786	167.46340	110.95419	3.77408	0.0518332	0.21223400	2.7835097	20	9 25.0	20.9
443381 2014 HC_{8}	17.2	X	115.54132	166.96695	70.71601	6.57055	0.0329304	0.22359118	2.6884354	20	10 22.6	20.9
443382 2014 HX_{8}	17.2	X	52.64977	208.62366	68.85792	5.47852	0.0315920	0.21238859	2.7821589	20	9 23.4	21.0
443383 2014 HP_{9}	17.0	X	134.91871	72.01436	97.88312	3.22941	0.0063931	0.20323964	2.8650383	20	8 13.6	20.9
443384 2014 HZ_{11}	16.2	X	52.00325	175.10668	43.76761	9.79326	0.0383020	0.18656230	3.0333333	20	7 2.9	20.4
443385 2014 HD_{12}	16.7	X	1.36779	93.77044	195.53615	8.17907	0.1813007	0.18666112	3.0322625	20	7 28.4	20.1
443386 2014 HO_{12}	17.3	X	35.78373	281.52790	48.24406	4.07350	0.0567666	0.22689351	2.6622858	20	11 11.4	20.7
443387 2014 HD_{15}	16.4	X	353.16243	308.12195	33.73540	4.42879	0.1080558	0.21355834	2.7719902	20	9 29.6	19.4
443388 2014 HS_{16}	17.3	X	241.14862	280.48202	238.31594	0.23581	0.0164215	0.24739322	2.5131063	20	12 20.2	20.4
443389 2014 HU_{17}	17.3	X	48.37760	81.60659	203.13902	3.67830	0.0749727	0.21297092	2.7770851	20	9 30.2	20.9
443390 2014 HD_{20}	18.2	X	330.48769	110.02498	12.90020	3.69324	0.1101650	0.27568957	2.3380610	20	—	—
443391 2014 HW_{21}	18.2	X	73.57142	64.82930	350.92092	2.90209	0.1082753	0.28930488	2.2641170	20	—	—
443392 2014 HD_{22}	16.5	X	340.16695	48.16696	227.23037	9.79307	0.0864401	0.17839874	3.1251787	20	6 3.1	20.4
443393 2014 HN_{22}	15.6	X	325.32894	194.68977	107.88421	18.95576	0.1431961	0.17493319	3.1663183	20	6 12.4	19.6
443394 2014 HU_{24}	17.2	X	111.66998	63.39023	206.34063	14.00967	0.0911512	0.23791706	2.5794017	20	12 1.9	21.2
443395 2014 HC_{29}	16.2	X	349.21574	138.58162	153.00023	3.33333	0.1339768	0.18667141	3.0321511	20	7 8.6	19.7
443396 2014 HZ_{29}	16.9	X	24.12656	123.38411	118.61544	2.85633	0.0579955	0.18456226	3.0552080	20	6 25.7	20.9
443397 2014 HW_{30}	17.3	X	40.84349	172.90521	147.88445	5.02585	0.0171467	0.22640869	2.6660850	20	11 2.5	20.9
443398 2014 HJ_{31}	16.6	X	338.91208	111.09250	184.93622	12.21652	0.0902668	0.18374913	3.0642147	20	6 27.8	20.7
443399 2014 HS_{32}	16.5	X	358.30753	67.57569	196.35188	13.88840	0.1703916	0.17622087	3.1508749	20	6 16.5	20.2
443400 2014 HV_{34}	17.9	X	121.97614	227.18664	159.51595	6.34887	0.1176073	0.29183961	2.2509883	20	1 25.3	20.5
443401 2014 HY_{36}	17.0	X	57.44595	154.10845	76.98076	6.85883	0.2135757	0.19160022	2.9799253	20	8 25.0	21.1
443402 2014 HU_{37}	16.8	X	141.43914	266.68373	77.97584	10.88117	0.1964670	0.27361451	2.3498671	20	1 8.7	20.1
443403 2014 HC_{38}	16.4	X	287.40097	273.18242	72.07805	11.76209	0.0600047	0.18395820	3.0618926	20	6 20.7	20.5
443404 2014 HU_{38}	17.1	X	353.88225	264.72820	95.49492	7.32165	0.0450087	0.22114299	2.7082408	20	10 24.9	20.6
443405 2014 HA_{45}	16.7	X	358.92696	117.04292	167.94885	2.55886	0.0918384	0.19080407	2.9882089	20	7 16.4	20.4
443406 2014 HK_{45}	17.2	X	336.38913	263.36316	118.19661	7.30601	0.0976330	0.22589029	2.6701624	20	10 30.7	20.3
443407 2014 HP_{45}	16.2	X	293.89008	225.05386	115.36637	8.11337	0.1495980	0.18296314	3.0729841	20	6 11.2	20.2
443408 2014 HU_{47}	18.0	X	338.05592	77.83001	68.84804	4.78733	0.0610317	0.28687547	2.2768816	20	—	—
443409 2014 HW_{47}	17.2	X	155.69548	94.12785	79.63833	4.76405	0.0328094	0.21476450	2.7616018	20	9 17.9	21.2
443410 2014 HC_{48}	16.4	X	150.76932	188.60852	55.07412	14.92329	0.0835579	0.23954710	2.5676871	20	12 8.5	20.2
443411 2014 HK_{49}	17.3	X	304.77657	352.09810	40.87942	6.62294	0.0426478	0.21942419	2.7223652	20	9 26.1	20.8
443412 2014 HE_{50}	18.1	X	272.38662	111.02417	47.92694	3.68400	0.1420086	0.26612211	2.3937681	20	—	—
443413 2014 HA_{52}	17.3	X	69.68602	144.89891	132.63669	3.14896	0.0236511	0.22318198	2.6917205	20	10 14.7	20.9
443414 2014 HD_{62}	17.8	X	289.87024	22.17271	94.67606	4.63306	0.1382209	0.25696415	2.4503099	20	12 27.0	19.8
443415 2014 HY_{64}	17.7	X	58.48691	231.60634	181.68919	6.13776	0.1259281	0.28154278	2.3055424	20	—	—
443416 2014 HJ_{70}	17.3	X	42.71103	80.92050	124.50803	2.11999	0.0955521	0.17891491	3.1191651	20	6 8.8	21.4
443417 2014 HL_{73}	17.3	X	203.16114	323.36626	165.96518	3.96683	0.0363652	0.21755786	2.7379123	20	9 15.9	21.2
443418 2014 HM_{73}	17.7	X	78.50677	208.37292	115.27421	2.82058	0.1458869	0.23955333	2.5676426	20	—	—
443419 2014 HY_{73}	16.8	X	349.23833	211.91585	100.54976	3.25257	0.0660489	0.19825665	2.9128461	20	8 8.9	20.5
443420 2014 HC_{78}	16.8	X	328.81408	118.03857	194.36183	10.22791	0.0941923	0.18723177	3.0260982	20	7 3.2	20.7
443421 2014 HJ_{81}	17.0	X	349.63893	200.80562	145.35064	4.44269	0.1199517	0.21235980	2.7824103	20	9 30.2	20.0
443422 2014 HV_{83}	17.5	X	1.55971	185.31333	151.28274	5.04151	0.1127659	0.21253126	2.7809136	20	10 7.1	20.8
443423 2014 HJ_{93}	17.3	X	15.06135	321.52121	60.74494	10.37530	0.0681155	0.24293370	2.5437682	20	12 27.2	20.5
443424 2014 HP_{95}	15.9	X	285.51395	227.83346	106.45263	7.04350	0.1713208	0.17375502	3.1806153	20	5 20.5	20.4
443425 2014 HT_{107}	16.7	X	41.93435	162.95058	103.99895	5.71927	0.0871058	0.20003150	2.8955903	20	8 31.4	20.5
443426 2014 HJ_{111}	17.5	X	0.29839	273.68546	118.27654	6.63627	0.1379395	0.24051579	2.5607882	20	12 28.3	20.3
443427 2014 HH_{118}	17.8	X	78.71948	272.83031	116.48712	5.39247	0.1272047	0.27225026	2.3577107	20	—	—
443428 2014 HW_{118}	16.9	X	2.02106	228.24772	104.75074	7.65361	0.1510460	0.20632318	2.8364211	20	10 8.1	20.2
443429 2014 HJ_{123}	16.8	X	66.99382	6.79383	318.45554	5.15004	0.1216306	0.23683213	2.5872733	20	12 24.9	20.6
443430 2014 HH_{125}	16.8	X	352.55357	347.14179	8.76912	5.66864	0.0575658	0.22177142	2.7031221	20	10 13.9	20.1
443431 2014 HS_{130}	16.7	X	152.74925	220.11995	66.70462	6.99117	0.2083824	0.25984710	2.4321525	20	—	—
443432 2014 HZ_{130}	17.0	X	73.57502	66.68163	203.76107	3.63502	0.0639405	0.21462241	2.7628205	20	10 13.1	20.8
443433 2014 HQ_{133}	17.0	X	86.31869	199.54790	349.06942	4.34874	0.1205467	0.19052748	2.9911003	20	7 21.5	21.2
443434 2014 HO_{136}	17.0	X	347.75976	223.29751	78.90518	2.21818	0.0534995	0.19310356	2.9644391	20	7 22.9	20.7
443435 2014 HG_{138}	17.2	X	76.81561	171.62576	193.51439	6.79227	0.2290913	0.25710387	2.4494221	20	—	—
443436 2014 HH_{140}	17.1	X	42.06173	224.62428	25.37098	1.98069	0.0469832	0.19469318	2.9482811	20	8 1.3	20.9
443437 2014 HX_{140}	15.9	X	236.39800	348.97238	287.90956	1.48277	0.1629770	0.12682576	3.9234165	20	1 27.7	22.0
443438 2014 HF_{141}	16.9	X	207.65426	136.30328	344.91540	3.33075	0.0159575	0.21333628	2.7739134	20	9 12.2	20.6
443439 2014 HY_{146}	17.2	X	44.06785	134.63485	171.20646	6.49808	0.0201520	0.21926358	2.7236944	20	10 17.0	20.9
443440 2014 HG_{149}	16.6	X	316.76486	161.90523	231.01843	5.23063	0.0432268	0.21888135	2.7268644	20	10 9.1	20.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
443441 2014 HP_{151}	17.1	X	247.69863	45.34702	41.74653	4.61171	0.0721303	0.21481826	2.7611410	20	9 13.5	20.8
443442 2014 HT_{152}	16.2	X	162.92290	67.85455	30.74545	10.47945	0.0407248	0.18041479	3.1018535	20	6 15.6	20.9
443443 2014 HX_{156}	17.0	X	98.77011	172.26399	76.24764	6.01698	0.0591922	0.22031005	2.7150626	20	10 18.5	20.9
443444 2014 HA_{160}	16.4	X	325.48921	182.96475	114.74107	6.74209	0.1268730	0.17803706	3.1294098	20	6 6.3	20.3
443445 2014 HF_{160}	16.7	X	335.58573	220.66416	59.02943	6.33946	0.1392510	0.17441893	3.1725390	20	5 27.7	20.5
443446 2014 HG_{160}	17.1	X	106.01578	109.44380	131.01378	5.85151	0.0607351	0.22079492	2.7110862	20	10 16.9	21.1
443447 2014 HA_{161}	16.6	X	64.03452	48.50968	180.27511	11.08865	0.1404604	0.19518841	2.9432921	20	8 14.6	20.8
443448 2014 HJ_{161}	16.7	X	359.74989	242.20962	106.67026	7.62295	0.0855831	0.21582916	2.7525125	20	10 21.3	20.1
443449 2014 HG_{162}	17.0	X	359.58311	122.41244	150.11876	8.34545	0.1636306	0.18008371	3.1056542	20	7 1.4	20.5
443450 2014 HT_{163}	17.2	X	243.04064	73.00706	160.66772	10.05233	0.0814189	0.27625120	2.3348909	20	—	—
443451 2014 HU_{163}	16.8	X	45.95181	353.42686	271.62667	3.55133	0.0806878	0.21006884	2.8026033	20	8 30.9	20.4
443452 2014 HJ_{167}	15.8	X	329.26056	209.03382	88.97291	12.08653	0.0100699	0.18134883	3.0911936	20	6 21.9	19.9
443453 2014 HB_{171}	16.5	X	51.67244	154.17672	143.79445	8.29461	0.1165984	0.21817093	2.7327808	20	11 1.5	20.3
443454 2014 HS_{171}	16.4	X	268.49268	356.98571	85.64992	10.28284	0.0360353	0.22735196	2.6587056	20	10 16.2	20.0
443455 2014 HH_{176}	16.1	X	43.02921	43.57934	259.81778	5.16002	0.0401674	0.21438158	2.7648892	20	10 10.7	19.8
443456 2014 HK_{179}	15.9	X	2.80609	140.62997	119.14519	18.59595	0.1463848	0.17555649	3.1588194	20	6 21.1	19.7
443457 2014 HW_{183}	17.6	X	154.32752	221.72859	100.08764	6.81015	0.1522757	0.27360381	2.3499283	20	—	—
443458 2014 HY_{184}	16.8	X	152.20267	109.08884	77.79761	5.88429	0.0481954	0.21412527	2.7670952	20	10 1.1	20.8
443459 2014 HZ_{184}	17.2	X	160.71240	29.06602	180.56515	5.10195	0.0170770	0.22711858	2.6605266	20	11 9.9	20.8
443460 2014 HE_{188}	15.7	X	356.56195	197.48134	104.23147	12.65412	0.1331383	0.19027690	2.9937257	20	8 8.3	19.2
443461 2014 HV_{188}	16.1	X	7.44516	284.04698	12.13395	11.68300	0.2424131	0.20149771	2.8815267	20	9 5.9	18.9
443462 2014 HH_{189}	16.0	X	345.90302	136.11238	156.18527	9.56181	0.0918253	0.17901819	3.1179653	20	7 4.1	20.0
443463 2014 HD_{190}	16.2	X	18.13802	343.27448	51.83581	14.59890	0.1708026	0.24275523	2.5450149	20	—	—
443464 2014 HL_{190}	17.1	X	47.34589	341.76668	62.73356	7.16659	0.1294252	0.26218169	2.4176930	20	—	—
443465 2014 HA_{191}	17.1	X	2.71856	191.13430	153.05930	6.84834	0.0166050	0.21716876	2.7411816	20	10 11.9	20.7
443466 2014 HK_{192}	16.7	X	8.43226	252.21134	27.25315	10.11068	0.1708549	0.18368538	3.0649236	20	8 3.3	20.3
443467 2014 JM_{1}	17.0	X	21.41052	186.18582	107.83309	3.20639	0.0426858	0.20285563	2.8686530	20	8 31.7	20.7
443468 2014 JO_{1}	17.3	X	120.93899	67.14681	129.34583	3.01717	0.0093813	0.20603113	2.8391008	20	8 30.8	21.1
443469 2014 JZ_{1}	17.8	X	342.73311	26.06468	77.98929	5.64906	0.0617942	0.26684641	2.3894346	20	—	—
443470 2014 JB_{2}	17.3	X	23.74845	209.53593	83.19131	3.21060	0.0402182	0.20311294	2.8662296	20	9 2.5	21.0
443471 2014 JE_{3}	16.4	X	323.57104	294.33677	52.47139	10.54213	0.0821925	0.19625602	2.9326083	20	8 19.1	20.2
443472 2014 JM_{3}	16.5	X	92.89876	32.38595	174.00006	6.60389	0.0516475	0.19336859	2.9617298	20	8 9.9	20.7
443473 2014 JR_{4}	16.9	X	166.73396	109.56807	84.17945	13.45413	0.1678360	0.22953965	2.6417857	20	10 26.9	21.4
443474 2014 JZ_{6}	16.2	X	358.10150	93.13822	212.61970	10.57359	0.0713926	0.19237816	2.9718864	20	8 8.5	20.2
443475 2014 JB_{7}	16.6	X	347.92389	185.61166	130.91391	3.40913	0.0723510	0.19251604	2.9704673	20	8 11.3	20.2
443476 2014 JK_{7}	17.2	X	345.19256	295.90271	78.17987	7.07819	0.0515957	0.22002315	2.7174223	20	10 29.9	20.6
443477 2014 JK_{8}	17.5	X	78.90278	213.41552	114.64485	3.67841	0.1150680	0.23713812	2.5850472	20	—	—
443478 2014 JQ_{9}	16.8	X	25.10616	129.85390	216.55959	13.38944	0.0622901	0.22443097	2.6817247	20	11 19.6	20.2
443479 2014 JG_{11}	16.4	X	328.97475	225.12350	73.94665	9.48795	0.0659062	0.17624467	3.1505912	20	6 18.3	20.6
443480 2014 JK_{13}	16.5	X	212.76116	303.81476	205.22302	12.10665	0.1209567	0.22763631	2.6564911	20	10 14.1	20.4
443481 2014 JC_{14}	16.5	X	24.89396	291.56126	80.54909	10.17583	0.0398675	0.23701765	2.5859230	20	12 21.5	19.8
443482 2014 JC_{19}	17.2	X	90.36943	143.31964	201.79928	5.97647	0.1585334	0.25756897	2.4464726	20	—	—
443483 2014 JC_{21}	17.0	X	187.19353	175.60484	79.68449	7.86421	0.0892530	0.26686230	2.3893397	20	—	—
443484 2014 JE_{21}	16.5	X	22.24257	151.85543	139.07674	2.56839	0.0448933	0.20992149	2.8039146	20	8 29.0	19.9
443485 2014 JH_{21}	15.6	X	347.22142	356.91075	262.48607	15.31000	0.0679003	0.17078794	3.2173470	20	5 24.0	19.8
443486 2014 JR_{21}	15.5	X	313.53422	221.41254	103.92588	11.49795	0.1366273	0.18170931	3.0871040	20	6 22.5	19.2
443487 2014 JT_{21}	17.3	X	152.03746	39.57773	158.59091	9.35474	0.1280338	0.22312383	2.6921882	20	10 15.6	21.6
443488 2014 JY_{21}	16.8	X	150.76487	95.78902	82.78055	7.74999	0.2229342	0.21324736	2.7746845	20	9 21.5	21.7
443489 2014 JC_{22}	16.6	X	6.30149	141.05531	111.96809	14.30979	0.0904776	0.17719699	3.1392928	20	6 15.9	20.6
443490 2014 JW_{22}	16.6	X	71.18875	221.25156	88.42662	9.87109	0.1735518	0.21889164	2.7267789	20	12 12.2	20.7
443491 2014 JW_{23}	16.2	X	309.39388	213.95336	100.21754	6.97484	0.0914952	0.17400832	3.1775279	20	6 7.3	20.4
443492 2014 JE_{24}	16.7	X	245.43956	68.63388	72.79721	15.89497	0.0930126	0.23676424	2.5877678	20	11 21.2	20.0
443493 2014 JB_{26}	15.9	X	5.59577	175.56541	131.09057	15.73720	0.1297030	0.19209054	2.9748522	20	9 1.3	19.4
443494 2014 JN_{26}	16.6	X	116.77042	65.78880	124.99282	12.73588	0.1203254	0.20382913	2.8595117	20	8 29.9	21.0
443495 2014 JS_{26}	16.5	X	37.88123	98.33419	131.28960	14.09772	0.1345511	0.18106320	3.0944437	20	7 8.7	20.5
443496 2014 JG_{27}	16.5	X	7.90013	205.34304	131.19093	14.61190	0.1864749	0.20596181	2.8397379	20	10 30.1	20.0
443497 2014 JR_{32}	16.3	X	304.26207	228.26364	111.65344	19.36419	0.0345913	0.18149933	3.0894846	20	7 10.6	20.3
443498 2014 JG_{33}	16.9	X	63.49562	152.50582	145.59768	4.24307	0.0582968	0.22301821	2.6930381	20	11 7.4	20.5
443499 2014 JK_{35}	17.0	X	266.00202	340.18539	81.41481	4.07729	0.0478422	0.20937809	2.8087638	20	9 7.1	20.8
443500 2014 JS_{35}	16.9	X	19.08033	147.24505	158.96277	2.29048	0.0623618	0.20386741	2.8591538	20	9 14.9	20.6
443501 2014 JU_{35}	16.9	X	29.03381	99.59140	205.26009	6.77712	0.0245779	0.20966720	2.8061813	20	9 21.8	20.6
443502 2014 JV_{37}	17.1	X	65.84071	127.13701	139.54265	2.72706	0.0386166	0.20699572	2.8302740	20	9 24.7	21.0
443503 2014 JF_{39}	16.6	X	326.83326	163.69943	148.24352	1.24607	0.1761519	0.17695349	3.1421721	20	6 21.7	20.0
443504 2014 JM_{39}	16.7	X	34.18424	199.74437	202.81332	11.55253	0.1484692	0.25618432	2.4552800	20	—	—
443505 2014 JU_{39}	15.7	X	356.81672	229.67633	70.52195	11.91435	0.0959662	0.18720394	3.0263981	20	8 6.7	19.6
443506 2014 JD_{41}	16.9	X	209.82817	276.65336	211.81838	5.71203	0.0115882	0.20985706	2.8044885	20	9 23.1	20.8
443507 2014 JE_{41}	16.6	X	5.29620	257.58736	61.45661	6.84398	0.0931404	0.19880960	2.9074425	20	9 17.0	20.2
443508 2014 JN_{43}	16.0	X	120.92822	24.12638	115.83095	9.88281	0.0931071	0.17539429	3.1607666	20	6 24.9	20.7
443509 2014 JJ_{44}	16.8	X	344.43244	129.56669	199.24245	1.55698	0.1054604	0.19693051	2.9259083	20	8 22.4	20.2
443510 2014 JS_{44}	17.6	X	294.95272	57.90443	48.54749	4.84289	0.0184603	0.24340214	2.5405034	20	12 22.5	20.8
443511 2014 JR_{45}	17.3	X	22.69532	313.49268	33.02819	1.51390	0.0920574	0.22363973	2.6880463	20	11 19.6	20.6
443512 2014 JB_{46}	17.3	X	181.31352	137.31556	36.40261	6.15943	0.0270290	0.22331227	2.6906735	20	10 18.6	20.8
443513 2014 JD_{52}	15.9	X	300.39654	292.33394	52.65522	7.46880	0.0990267	0.18209523	3.0827407	20	7 3.8	20.0
443514 2014 JR_{52}	16.4	X	332.39667	221.26957	64.15472	10.71877	0.0918944	0.17015836	3.2252782	20	6 3.0	20.4
443515 2014 JS_{52}	16.8	X	43.34530	15.40231	226.39229	8.76908	0.1012881	0.18510305	3.0492544	20	7 26.2	20.9
443516 2014 JQ_{53}	16.6	X	348.19682	217.10102	70.61156	5.75568	0.0940444	0.17803298	3.1294576	20	7 2.1	20.4
443517 2014 JY_{57}	16.9	X	40.02100	126.57414	125.75902	11.18828	0.2026006	0.18902575	3.0069214	20	8 24.8	20.6
443518 2014 JY_{58}	16.1	X	19.12610	163.88801	110.33478	17.98583	0.1927475	0.18474216	3.0532243	20	8 17.9	19.7
443519 2014 JV_{59}	16.7	X	359.31188	234.90492	130.73175	6.60335	0.0357813	0.22022947	2.7157248	20	11 6.9	20.3
443520 2014 JW_{59}	17.5	X	102.98334	214.41715	128.86625	6.76638	0.0849158	0.25420648	2.4679990	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
443521 2014 JB_{60}	16.2	X	302.70982	145.00616	200.19377	10.02999	0.1329603	0.17899922	3.1181855	20	7 1.1	20.4
443522 2014 JX_{60}	17.2	X	171.70139	73.00365	88.31396	8.69338	0.1606935	0.21487696	2.7606381	20	9 19.3	21.8
443523 2014 JE_{61}	17.3	X	111.95309	221.58292	24.64360	3.67950	0.1476086	0.21711355	2.7416463	20	11 1.9	21.6
443524 2014 JL_{62}	16.6	X	30.97742	180.83491	146.84503	5.69035	0.1051848	0.21262338	2.7801104	20	11 8.3	20.2
443525 2014 JP_{65}	16.5	X	25.91189	41.12956	190.27362	10.32802	0.1621056	0.17515205	3.1636801	20	6 23.6	20.4
443526 2014 JE_{67}	16.5	X	41.93846	167.13949	112.66537	6.78499	0.0390763	0.20046343	2.8914295	20	9 11.2	20.4
443527 2014 JK_{67}	16.5	X	338.59376	77.33358	207.97244	9.58269	0.0560990	0.17331724	3.1859689	20	6 15.2	20.8
443528 2014 JZ_{67}	17.6	X	278.74020	76.71465	93.05145	6.69616	0.1704334	0.26901713	2.3765635	20	—	—
443529 2014 JS_{70}	17.0	X	158.88205	136.48788	35.52438	4.26711	0.1789676	0.21543536	2.7558658	20	9 17.9	21.6
443530 2014 JP_{71}	16.5	X	258.33853	250.49579	239.15180	8.51292	0.0774187	0.23678887	2.5875884	20	11 24.1	19.7
443531 2014 JU_{72}	16.8	X	98.32513	50.24164	212.06286	3.66970	0.0758606	0.21771377	2.7366050	20	11 3.1	20.8
443532 2014 JW_{73}	16.6	X	30.58613	105.08042	143.46264	1.71049	0.1105460	0.18189203	3.0850363	20	7 19.5	20.5
443533 2014 JX_{75}	16.6	X	137.47074	311.34974	252.59274	5.18978	0.0065341	0.21073106	2.7967287	20	9 27.9	20.6
443534 2014 KY	16.6	X	16.19848	62.15530	185.10495	11.21437	0.2354973	0.17613394	3.1519115	20	7 4.2	20.0
443535 2014 KJ_{1}	16.1	X	328.27282	144.95753	153.79971	9.90942	0.0717079	0.17746526	3.1361282	20	6 17.4	20.4
443536 2014 KY_{1}	16.6	X	26.43003	116.01198	111.42278	17.05032	0.1720064	0.17436159	3.1732345	20	6 21.8	20.3
443537 2014 KR_{2}	16.5	X	12.26174	44.40695	199.74348	10.47907	0.1444930	0.17598428	3.1536982	20	6 15.2	20.3
443538 2014 KG_{3}	16.1	X	308.59132	165.81169	151.22211	10.01757	0.0917091	0.17731679	3.1378786	20	6 10.6	20.4
443539 2014 KQ_{3}	16.8	X	163.33185	177.95899	17.02542	3.34345	0.0897366	0.23867135	2.5739643	20	10 22.9	20.6
443540 2014 KT_{3}	16.9	X	151.34058	125.80635	76.13428	10.66454	0.1574118	0.22720190	2.6598761	20	10 21.8	21.3
443541 2014 KT_{4}	16.2	X	53.03817	71.73652	136.09403	17.55583	0.1854535	0.17841246	3.1250185	20	7 10.6	20.3
443542 2014 KU_{7}	16.8	X	50.57089	259.53272	28.44641	4.81515	0.0468556	0.21407291	2.7675464	20	10 4.7	20.5
443543 2014 KM_{9}	17.2	X	84.62247	73.08920	217.87617	4.34388	0.0823311	0.22462078	2.6802137	20	11 25.4	21.1
443544 2014 KO_{9}	16.5	X	351.35082	107.46307	236.10107	4.87191	0.1309509	0.20034603	2.8925590	20	9 23.9	19.8
443545 2014 KK_{10}	16.5	X	349.01753	160.00964	137.43078	0.92682	0.2060079	0.17631735	3.1497253	20	7 14.9	19.6
443546 2014 KX_{11}	17.1	X	46.50012	176.15825	107.78051	3.22472	0.0347690	0.20298504	2.8674336	20	9 21.3	20.9
443547 2014 KE_{13}	16.9	X	20.86689	179.98564	80.94947	5.89008	0.0840079	0.18006297	3.1058927	20	7 18.8	20.9
443548 2014 KO_{13}	16.7	X	12.94704	194.80796	67.24433	7.93021	0.1219512	0.17762648	3.1342304	20	7 10.2	20.5
443549 2014 KM_{14}	15.8	X	324.88026	144.80977	155.86990	8.80450	0.1110040	0.17458597	3.1705151	20	6 11.2	19.9
443550 2014 KX_{14}	16.1	X	3.75678	221.99086	103.04410	13.55128	0.1276561	0.20220217	2.8748301	20	9 30.0	19.8
443551 2014 KZ_{14}	16.2	X	13.48142	131.79818	134.78408	10.79650	0.0792805	0.18379248	3.0637329	20	7 13.7	20.1
443552 2014 KQ_{16}	16.3	X	342.90654	267.57739	74.59421	12.34292	0.1216012	0.19661493	2.9290383	20	9 15.5	19.9
443553 2014 KO_{17}	17.1	X	339.46736	260.13486	204.33944	7.75470	0.0885219	0.25900489	2.4374221	20	—	—
443554 2014 KD_{18}	16.4	X	258.27504	205.23324	213.50180	11.42997	0.0371738	0.19844962	2.9109575	20	8 17.9	20.7
443555 2014 KJ_{18}	17.1	X	191.86473	31.17234	131.19609	4.69768	0.0868273	0.22061444	2.7125646	20	10 12.7	21.1
443556 2014 KU_{23}	16.8	X	325.16266	269.12399	83.28051	4.64851	0.2172640	0.18959214	3.0009297	20	8 14.0	19.8
443557 2014 KA_{24}	16.2	X	326.79942	181.48378	120.35169	14.94965	0.1308403	0.17644831	3.1481667	20	6 14.7	20.2
443558 2014 KQ_{25}	16.5	X	359.05494	160.06458	193.59951	5.61632	0.0049203	0.21507883	2.7589104	20	10 16.2	20.3
443559 2014 KU_{25}	17.4	X	186.03439	257.59380	107.03508	7.65137	0.1604661	0.29724620	2.2236094	20	3 15.6	20.8
443560 2014 KY_{26}	17.3	X	104.20592	266.34932	122.75047	7.70325	0.1213695	0.28556131	2.2838617	20	1 5.7	19.7
443561 2014 KC_{28}	16.8	X	50.00879	225.40018	121.83182	9.95072	0.0221609	0.24264042	2.5458176	20	12 21.4	20.2
443562 2014 KJ_{28}	15.5	X	283.16636	220.16189	107.09786	9.89795	0.0766736	0.17502693	3.1651876	20	5 23.2	20.0
443563 2014 KG_{30}	16.5	X	346.49422	207.91760	96.77027	7.35318	0.0986499	0.18515555	3.0486780	20	7 23.4	20.1
443564 2014 KM_{31}	16.8	X	322.89175	114.12050	204.88193	10.04230	0.1646583	0.17523763	3.1626500	20	6 24.8	20.7
443565 2014 KX_{31}	16.4	X	294.12364	254.78195	90.21346	9.43342	0.0891021	0.17647576	3.1478402	20	6 25.6	20.6
443566 2014 KL_{33}	17.2	X	288.31739	351.34686	105.30820	3.57088	0.0231089	0.23098608	2.6307456	20	11 27.9	20.5
443567 2014 KY_{34}	16.7	X	193.78955	50.57511	91.39628	13.70949	0.1601460	0.22214784	2.7000677	20	9 19.0	21.3
443568 2014 KP_{35}	17.5	X	299.59779	280.66693	168.03208	11.85191	0.0236361	0.23883587	2.5727822	20	12 5.9	21.0
443569 2014 KU_{40}	16.6	X	26.48584	105.84222	213.86522	5.81950	0.0576703	0.21869855	2.7283837	20	10 14.5	20.1
443570 2014 KU_{42}	16.1	X	327.05253	140.74028	173.93064	15.52257	0.1121914	0.17557376	3.1586122	20	7 1.7	20.3
443571 2014 KZ_{42}	16.0	X	223.24513	23.66526	92.45575	17.91624	0.0392651	0.20689218	2.8312181	20	10 1.7	20.4
443572 2014 KL_{51}	16.4	X	20.70185	63.78227	174.53554	17.62791	0.0961304	0.17095184	3.2152904	20	6 18.8	20.9
443573 2014 KW_{53}	16.5	X	60.21390	103.16585	97.25412	11.18846	0.0746444	0.17349554	3.1837858	20	6 24.3	20.8
443574 2014 KQ_{55}	16.6	X	24.58988	77.89005	199.15507	10.06431	0.0702635	0.18795404	3.0183407	20	8 10.5	20.7
443575 2014 KC_{57}	16.1	X	321.19421	187.54844	146.34362	9.43977	0.1572457	0.17727963	3.1383172	20	7 13.4	19.8
443576 2014 KL_{58}	16.2	X	286.72206	189.07375	177.01142	10.14895	0.1902608	0.17386511	3.1792726	20	6 26.9	20.7
443577 2014 KV_{59}	15.9	X	162.12753	292.04742	281.29418	13.80243	0.0397963	0.22817342	2.6523206	20	11 11.6	19.9
443578 2014 KA_{65}	17.7	X	75.01582	10.74215	84.29405	8.00955	0.0555409	0.29505417	2.2346090	20	2 15.2	20.2
443579 2014 KC_{66}	16.5	X	350.50651	102.19892	231.22169	9.67375	0.1171116	0.19349162	2.9604741	20	9 3.9	20.2
443580 2014 KE_{67}	17.1	X	270.07883	358.18351	101.21023	7.08705	0.0265455	0.22213127	2.7002019	20	11 6.8	20.8
443581 2014 KZ_{67}	16.0	X	243.59061	215.22951	205.83953	10.96577	0.1037055	0.18944257	3.0025091	20	7 24.4	20.6
443582 2014 KR_{70}	16.3	X	35.04258	123.34961	118.90051	10.97787	0.0386475	0.17785425	3.1315538	20	7 9.3	20.6
443583 2014 KE_{71}	16.3	X	297.20491	280.50143	92.61440	14.13671	0.1395282	0.18545283	3.0454191	20	8 1.6	20.3
443584 2014 KC_{73}	16.3	X	281.72625	193.99341	169.03310	9.77601	0.0914905	0.17484317	3.1674050	20	7 1.2	20.8
443585 2014 KL_{73}	15.9	X	328.77335	220.01516	104.81805	13.53021	0.0704509	0.18372808	3.0644487	20	7 23.2	19.8
443586 2014 KP_{75}	16.6	X	191.97953	195.43426	12.85830	7.24280	0.1148735	0.23964062	2.5670191	20	12 6.5	20.5
443587 2014 KM_{78}	15.8	X	332.98740	69.37431	233.85898	13.17836	0.1568587	0.17513774	3.1638524	20	6 21.9	19.6
443588 2014 KL_{82}	16.2	X	43.12686	159.09479	65.82721	12.33329	0.0938603	0.17654338	3.1470363	20	7 4.9	20.4
443589 2014 KZ_{85}	15.8	X	5.55799	201.72352	89.19714	6.53259	0.1496840	0.18297742	3.0728242	20	8 9.8	19.3
443590 2014 KG_{87}	16.7	X	49.03940	213.90805	161.03352	8.64446	0.0310718	0.25498455	2.4629758	20	—	—
443591 2014 KK_{88}	17.0	X	336.81280	279.78690	135.12841	15.34407	0.1035114	0.23145574	2.6271856	20	12 16.4	20.3
443592 2014 KU_{89}	16.8	X	63.89508	127.93108	171.94960	9.64987	0.1808967	0.21914369	2.7246877	20	11 25.4	21.0
443593 2014 KJ_{91}	16.1	X	280.45693	254.08480	128.28023	16.63714	0.1142014	0.18247605	3.0784503	20	7 21.9	20.2
443594 2014 KL_{91}	15.8	X	336.16286	212.33681	118.46766	11.51421	0.0904437	0.18794734	3.0184125	20	8 12.1	19.5
443595 2014 KQ_{92}	15.7	X	302.67859	274.80294	82.58677	10.93542	0.1436754	0.18129500	3.0918055	20	7 17.9	19.7
443596 2014 KM_{93}	17.2	X	50.15009	233.62128	188.40052	9.99826	0.0892711	0.26417281	2.4055292	20	—	—
443597 2014 KU_{93}	16.3	X	45.50287	125.44547	87.48044	6.32249	0.0686467	0.17033342	3.2230680	20	6 19.0	20.7
443598 2014 KY_{94}	17.0	X	187.65133	20.34699	116.70502	13.46348	0.0678440	0.20305108	2.8668118	20	9 7.1	21.4
443599 2014 KJ_{96}	15.5	X	154.42735	15.40082	87.87397	14.10749	0.0603373	0.17231073	3.1983636	20	6 13.7	20.2
443600 2014 KC_{97}	15.7	X	337.79797	66.96029	228.22314	14.61919	0.0773941	0.17298030	3.1901048	20	6 24.3	20.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
443601 2014 KA_{98}	16.4	X	39.10479	187.68703	58.33679	6.38619	0.1136059	0.18134578	3.0912283	20	7 31.9	20.4
443602 2014 KE_{98}	15.8	X	334.44094	221.73374	74.08301	9.19201	0.0191767	0.17246311	3.1964794	20	6 24.9	20.2
443603 2014 KM_{100}	16.0	X	332.40524	113.47789	195.87734	10.73638	0.1000026	0.17599455	3.1535755	20	7 3.7	20.1
443604 2014 KP_{101}	15.6	X	74.90740	339.94314	259.84560	11.26721	0.0304121	0.19736947	2.9215685	20	8 23.3	19.9
443605 2014 LZ_{2}	17.1	X	337.25350	321.34755	104.86738	6.02728	0.0960249	0.23947017	2.5682370	20	—	—
443606 2014 LG_{8}	16.2	X	312.07805	254.46836	94.56819	10.61833	0.1120139	0.18519771	3.0482153	20	7 26.4	20.0
443607 2014 LT_{8}	16.8	X	249.00218	30.43122	98.17895	8.70819	0.0353034	0.22770728	2.6559391	20	11 16.4	20.4
443608 2014 LA_{10}	15.9	X	22.16957	134.81721	101.27802	12.83088	0.0622403	0.16944826	3.2342826	20	6 15.6	20.2
443609 2014 LX_{10}	16.1	X	349.35432	141.12353	152.71146	11.17732	0.0307837	0.18046640	3.1012621	20	7 12.2	20.4
443610 2014 LZ_{10}	16.0	X	334.11900	230.52360	85.03690	12.67723	0.0948866	0.18082804	3.0971259	20	7 17.6	19.9
443611 2014 LZ_{14}	16.1	X	325.12552	171.04872	154.28340	20.73533	0.0997310	0.17693815	3.1423536	20	7 14.4	20.4
443612 2014 LA_{22}	17.6	X	320.78823	22.69204	144.60202	6.28914	0.0427368	0.27582907	2.3372726	20	—	—
443613 2014 LC_{22}	15.9	X	2.48156	189.23678	121.02725	16.48778	0.0704053	0.19143623	2.9816269	20	8 28.2	19.8
443614 2014 LT_{22}	15.8	X	32.38827	15.50161	255.40440	9.20798	0.0599984	0.18869858	3.0103960	20	8 11.7	19.9
443615 2014 LA_{25}	16.3	X	38.88831	92.80958	119.00951	23.43792	0.2595375	0.17687124	3.1431461	20	7 5.8	20.0
443616 2014 LG_{25}	15.7	X	305.55118	114.51369	240.75571	14.46153	0.1252326	0.18115724	3.0933728	20	7 17.2	19.9
443617 2014 LJ_{25}	16.2	X	306.36077	251.33318	82.98601	10.59153	0.1034915	0.17448699	3.1717140	20	6 27.0	20.4
443618 2014 MO_{1}	16.1	X	98.19514	319.34692	191.05258	15.40046	0.1476146	0.17351954	3.1834923	20	6 18.5	21.1
443619 2014 MM_{2}	16.2	X	270.78806	229.33834	263.58667	11.39754	0.0708717	0.24332743	2.5410234	20	12 18.9	19.0
443620 2014 MJ_{3}	15.9	X	298.53803	192.19380	157.47599	15.47341	0.1055250	0.17835662	3.1256708	20	7 5.5	20.3
443621 2014 MK_{11}	15.7	X	109.94721	324.79268	249.13409	9.18984	0.0491773	0.18231126	3.0803050	20	9 4.4	20.4
443622 2014 MA_{21}	16.5	X	149.53549	156.83955	90.21577	15.92907	0.0888715	0.21657821	2.7461624	20	12 9.2	20.6
443623 2014 MM_{23}	15.4	X	36.21915	348.56267	259.90752	9.94062	0.0190755	0.17825890	3.1268129	20	7 15.3	19.8
443624 2014 ML_{34}	16.3	X	315.66565	182.82701	155.63873	10.68774	0.1218747	0.18052167	3.1006291	20	7 14.3	20.3
443625 2014 MM_{34}	15.6	X	285.75633	257.38879	103.75771	17.30794	0.0372403	0.18301847	3.0723647	20	7 13.0	19.7
443626 2014 MM_{36}	16.4	X	215.43391	58.60081	118.52061	22.35226	0.0250368	0.23274679	2.6174612	20	12 10.2	20.3
443627 2014 MX_{40}	16.0	X	283.41251	220.98466	142.23122	10.88778	0.1368194	0.17648971	3.1476743	20	6 27.6	20.5
443628 2014 MS_{46}	16.5	X	12.55112	169.79024	196.67246	12.42311	0.0995621	0.19789494	2.9163944	20	11 26.9	20.4
443629 2014 MQ_{47}	16.5	X	46.39063	29.45674	182.38041	5.04570	0.1185408	0.17180680	3.2046146	20	6 25.3	20.7
443630 2014 MM_{54}	16.2	X	74.15762	295.68357	330.95837	11.95870	0.0735229	0.19108421	2.9852876	20	10 1.6	20.6
443631 2014 MD_{58}	15.9	X	248.57834	314.30773	128.38386	6.60475	0.1117451	0.17473760	3.1686806	20	8 28.6	20.5
443632 2014 NA_{1}	17.2	X	27.36460	336.35016	143.54338	7.10809	0.0651482	0.28130314	2.3068516	20	1 4.8	19.6
443633 2014 NH_{17}	16.1	X	176.06027	258.25443	221.03628	9.59412	0.0466861	0.18419739	3.0592413	20	7 25.4	20.8
443634 2014 NR_{55}	16.1	X	116.56061	169.85261	85.68338	10.35828	0.0131190	0.19265923	2.9689952	20	11 8.8	20.3
443635 2014 NW_{61}	16.6	X	118.70853	206.00145	84.61824	12.37350	0.0567862	0.22227295	2.6990544	20	12 29.5	20.4
443636 2014 OE	16.3	X	64.55105	237.08823	120.25419	10.27154	0.0376071	0.22239550	2.6980628	20	—	—
443637 2014 OB_{6}	16.1	X	269.90074	324.72025	121.13011	15.44063	0.0962317	0.21629788	2.7485346	20	10 13.7	20.0
443638 2014 OY_{14}	17.1	X	35.46719	328.10184	128.59776	6.71579	0.1060413	0.25490699	2.4634753	20	—	—
443639 2014 OB_{131}	16.0	X	340.67111	149.08523	177.86814	12.26895	0.1018205	0.18431322	3.0579595	20	8 9.9	19.8
443640 2014 OR_{131}	15.6	X	346.00482	150.23764	135.58161	15.96411	0.0152235	0.17465386	3.1696935	20	6 28.6	20.2
443641 2014 OH_{202}	15.8	X	96.73728	115.43600	115.17479	11.67059	0.0294857	0.17884054	3.1200297	20	9 15.9	20.4
443642 2014 OH_{207}	15.3	X	282.81792	331.54171	66.79893	10.47680	0.0696993	0.17407249	3.1767469	20	8 25.9	19.8
443643 2014 OQ_{211}	15.8	X	240.83524	346.81495	137.21253	13.11794	0.0715955	0.18636910	3.0354293	20	10 20.7	20.3
443644 2014 ON_{212}	16.0	X	327.62018	189.22963	141.29490	14.51390	0.1326113	0.17777683	3.1324630	20	7 22.7	19.8
443645 2014 OO_{212}	15.7	X	146.54124	341.04966	145.92380	16.46137	0.0294675	0.17421502	3.1750141	20	7 2.7	20.5
443646 2014 OB_{240}	16.1	X	26.38003	202.22146	113.39034	10.02890	0.0926698	0.18460994	3.0546820	20	10 12.9	20.2
443647 2014 OX_{281}	15.9	X	62.64921	156.64409	98.56724	11.64387	0.1863231	0.17656100	3.1468270	20	9 28.2	20.6
443648 2014 OO_{316}	16.0	X	234.93095	348.28935	106.78428	11.58278	0.0606089	0.17612365	3.1520342	20	9 6.8	20.7
443649 2014 ON_{343}	15.6	X	332.74358	286.55197	110.04179	10.30887	0.1081755	0.19027163	2.9937810	20	11 5.9	19.4
443650 2014 QU_{189}	16.0	X	271.60098	267.67945	167.80132	10.15514	0.0811845	0.17416363	3.1756386	20	9 21.3	20.2
443651 2015 DS_{211}	16.9	X	122.50956	155.19421	89.43472	7.19686	0.0789819	0.27221094	2.3579377	20	11 18.8	20.2
443652 2015 EU_{64}	17.5	X	151.26900	165.03040	38.65456	3.58924	0.1786729	0.27475647	2.3433514	20	10 25.5	21.3
443653 2015 FO_{32}	17.2	X	148.74247	37.09775	154.70253	5.84110	0.0997813	0.26264255	2.4148639	20	10 8.9	20.7
443654 2015 FT_{43}	17.0	X	70.28679	38.24797	176.91759	9.43382	0.2240942	0.23033135	2.6357286	20	8 20.9	20.7
443655 2015 FP_{76}	16.4	X	307.19075	227.46781	85.94942	5.70728	0.0579640	0.21326896	2.7744972	20	6 7.5	20.0
443656 2015 FB_{77}	14.9	X	201.34985	245.03914	50.00215	18.81217	0.0319112	0.14881852	3.5266693	20	1 20.2	20.4
443657 2015 FK_{77}	15.5	X	233.45655	262.23025	69.65191	9.81590	0.0532224	0.18401792	3.0612301	20	4 4.5	20.1
443658 2015 FY_{115}	15.2	X	320.45732	32.69490	172.05855	22.64557	0.0341552	0.18541988	3.0457799	20	2 8.7	19.7
443659 2015 FM_{213}	15.8	X	208.87590	246.70862	99.20838	10.89490	0.0963668	0.18299439	3.0726343	20	3 24.6	20.7
443660 2015 FH_{294}	15.4	X	33.79820	69.62604	72.28425	16.44537	0.0754265	0.17638820	3.1488818	20	3 12.7	19.8
443661 2015 FF_{301}	16.7	X	26.92744	154.48404	132.71474	11.26740	0.1633747	0.23349906	2.6118363	20	9 23.9	19.8
443662 2015 FC_{302}	16.2	X	323.04482	172.30813	164.53917	15.05351	0.1039109	0.22581240	2.6707764	20	7 29.5	19.5
443663 2015 FY_{314}	16.7	X	90.59374	136.01068	108.97949	7.92381	0.0717762	0.26295435	2.4129545	20	10 14.0	20.1
443664 2015 FX_{315}	15.9	X	198.59768	302.13584	93.92322	8.14658	0.0257215	0.21261672	2.7801684	20	5 12.3	19.8
443665 2015 FO_{335}	17.1	X	97.44696	128.21468	140.93551	5.96859	0.1685351	0.26029840	2.4293405	20	11 26.1	21.0
443666 2015 FV_{337}	15.7	X	302.69216	154.85668	113.40514	9.41957	0.1379812	0.17365350	3.1818547	20	3 28.6	20.1
443667 2015 FE_{338}	17.2	X	1.83847	294.31538	128.43543	6.71564	0.0613895	0.29382343	2.2408447	20	—	—
443668 2015 HX	17.7	X	101.61289	190.93421	96.64561	7.05420	0.2939937	0.28293570	2.2979693	20	12 28.5	21.6
443669 2015 HA_{43}	15.9	X	317.86518	74.58259	184.99157	16.66193	0.1677645	0.18207955	3.0829177	20	3 29.5	19.8
443670 2015 HX_{60}	16.7	X	45.36471	123.69158	166.50850	14.86197	0.1316073	0.23504426	2.6003768	20	10 19.8	20.2
443671 2015 HL_{94}	16.3	X	309.73212	135.66180	158.76887	6.45503	0.0618673	0.20202219	2.8765372	20	5 17.7	20.1
443672 2015 HR_{148}	17.1	X	91.77573	48.43274	258.42666	6.40578	0.1606705	0.28040726	2.3117625	20	—	—
443673 2015 HD_{155}	16.3	X	349.60064	51.71860	236.99164	11.03986	0.2503427	0.22023175	2.7157061	20	7 4.3	18.5
443674 2015 HN_{170}	18.9	X	178.11149	249.87089	39.36724	5.69683	0.3683544	0.30956812	2.1642058	20	—	—
443675 2015 HF_{171}	17.4	X	113.26604	146.48628	140.20510	5.32099	0.2202013	0.27778541	2.3262860	20	—	—
443676 2015 KO_{4}	16.0	X	355.87591	289.19806	249.88889	8.49802	0.0459212	0.18196409	3.0842218	20	2 20.8	20.4
443677 2015 KP_{8}	17.2	X	6.28866	270.44570	39.66049	2.03683	0.1592651	0.22835002	2.6509529	20	9 15.5	19.9
443678 2015 KJ_{13}	16.0	X	264.21639	152.22147	159.70259	12.86271	0.0904029	0.17609029	3.1524324	20	4 9.6	20.7
443679 2015 KP_{13}	17.0	X	354.81220	182.95019	129.29807	12.91865	0.1492238	0.22201681	2.7011299	20	8 25.8	19.8
443680 2015 KZ_{13}	16.9	X	47.90615	111.84952	147.17159	10.08759	0.0293559	0.22895168	2.6463066	20	8 22.1	20.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
443681 2015 KS_{14}	17.1	X	40.34009	107.19658	137.79700	8.63584	0.1593618	0.21795692	2.7345694	20	8 10.0	20.1
443682 2015 KZ_{15}	16.0	X	247.41175	203.80217	165.17518	11.29868	0.1199603	0.19334961	2.9619236	20	5 26.6	20.6
443683 2015 KF_{16}	16.9	X	104.46461	51.90283	150.27673	12.26358	0.0831375	0.23264537	2.6182218	20	8 28.1	20.7
443684 2015 KF_{18}	15.7	X	315.68694	138.59966	129.10901	16.96968	0.1674285	0.18091862	3.0960921	20	4 12.7	20.0
443685 2015 KQ_{19}	17.7	X	126.39747	172.98965	76.62653	3.32949	0.1338578	0.26848199	2.3797204	20	11 27.9	21.1
443686 2015 KK_{22}	16.6	X	56.66177	80.66178	195.69279	12.73101	0.1489041	0.23971721	2.5664723	20	10 16.8	20.1
443687 2015 KE_{36}	17.7	X	117.58108	210.33048	83.09390	4.08988	0.1689014	0.26899619	2.3766868	20	—	—
443688 2015 KN_{38}	17.3	X	41.85871	190.46272	130.01745	5.78963	0.1134556	0.25388247	2.4700983	20	11 23.5	20.5
443689 2015 KM_{39}	17.6	X	59.19638	56.22076	257.85497	5.53952	0.0462923	0.26485020	2.4014258	20	11 28.2	20.5
443690 2015 KB_{41}	17.1	X	194.13856	24.31875	78.00638	6.10357	0.0911788	0.22908330	2.6452929	20	7 29.7	21.1
443691 2015 KL_{41}	18.1	X	255.37223	110.94471	92.76398	3.56441	0.1000361	0.31783941	2.1264943	20	—	—
443692 2015 KD_{47}	15.8	X	89.36298	56.06148	72.55224	19.78848	0.0780660	0.18646962	3.0343382	20	5 7.3	20.2
443693 2015 KF_{64}	16.5	X	12.92067	55.25449	141.39537	5.93612	0.1173947	0.18891127	3.0081360	20	4 13.3	20.0
443694 2015 KA_{101}	17.5	X	111.04369	224.25195	100.08141	6.45534	0.1928330	0.28940193	2.2636108	20	—	—
443695 2015 KJ_{103}	16.1	X	6.46369	54.41606	132.04659	7.80108	0.0916298	0.17235056	3.1978709	20	3 22.5	20.1
443696 2015 KD_{107}	16.7	X	334.54521	211.18901	101.48330	7.71658	0.0307030	0.21563064	2.7542017	20	7 19.8	20.3
443697 2015 KL_{108}	16.8	X	78.88015	72.91387	136.64941	5.77194	0.0981774	0.22184847	2.7024962	20	8 6.8	20.5
443698 2015 KS_{108}	16.4	X	326.59150	270.34421	99.71032	9.81133	0.0600717	0.24132127	2.5550867	20	10 3.8	19.6
443699 2015 KU_{109}	16.8	X	27.44170	82.55089	223.14105	12.59451	0.1918708	0.23280600	2.6170173	20	10 19.5	19.9
443700 2015 KB_{110}	17.1	X	277.78147	328.16203	123.81560	6.40727	0.0684522	0.26357147	2.4091867	20	11 12.1	19.9
443701 2015 KE_{110}	17.1	X	24.34485	159.14553	148.42575	5.45674	0.1606205	0.23328036	2.6134685	20	10 15.9	20.2
443702 2015 KA_{111}	17.1	X	357.87742	235.34255	93.32836	14.24989	0.2762994	0.22255359	2.6967849	20	10 18.3	19.8
443703 2015 KQ_{111}	17.3	X	147.77497	108.84206	143.17033	6.84254	0.0714693	0.27837623	2.3229933	20	12 26.4	20.6
443704 2015 KU_{111}	16.5	X	293.66658	152.61118	136.50968	8.07999	0.1344540	0.17648499	3.1477304	20	4 10.9	21.0
443705 2015 KM_{112}	16.7	X	58.40029	21.30287	208.67784	12.50540	0.1351659	0.21984669	2.7188761	20	8 8.1	20.6
443706 2015 KD_{113}	16.7	X	339.63008	113.40199	96.27020	15.41289	0.2950813	0.17462362	3.1700594	20	2 14.9	20.4
443707 2015 KU_{113}	16.7	X	239.37216	252.92530	147.29887	8.14345	0.0297175	0.21207916	2.7848644	20	7 5.6	20.6
443708 2015 KY_{122}	15.3	X	270.12807	197.31051	112.58331	17.08996	0.2583939	0.17584872	3.1553187	20	3 29.3	20.5
443709 2015 KC_{132}	18.4	X	190.21502	244.09007	34.74063	4.23655	0.1778522	0.30392509	2.1909124	20	—	—
443710 2015 KM_{133}	16.1	X	338.44476	235.28566	124.19268	15.21801	0.1239272	0.23749124	2.5824840	20	10 10.7	19.2
443711 2015 KA_{135}	17.7	X	116.31405	353.91763	272.73758	3.41880	0.1052956	0.27335162	2.3513735	20	12 9.5	21.0
443712 2015 KZ_{136}	17.7	X	209.06994	237.92376	19.15737	0.65227	0.1064661	0.31900381	2.1213165	20	—	—
443713 2015 KO_{142}	16.6	X	359.87432	275.95281	242.65509	21.23847	0.4450238	0.17774358	3.1328536	20	—	—
443714 2015 KR_{144}	17.4	X	178.62778	11.63393	227.14073	5.56955	0.1333530	0.29264129	2.2468753	20	—	—
443715 2015 KX_{146}	17.3	X	118.17262	74.91596	184.86191	11.54564	0.1460975	0.26339895	2.4102385	20	12 3.2	21.2
443716 2015 KC_{148}	17.6	X	110.74394	226.23183	60.51155	6.29018	0.2183036	0.26290304	2.4132685	20	12 29.5	21.6
443717 2015 KA_{157}	17.7	X	125.98682	294.77466	152.60430	23.28798	0.0588837	0.37460661	1.9058370	20	4 17.9	20.1
443718 2015 KB_{160}	17.6	X	214.73903	92.35303	159.28922	6.32882	0.0986623	0.31485560	2.1399080	20	—	—
443719 2015 LC_{1}	15.7	X	126.94596	305.80617	137.67522	16.44543	0.0790350	0.18611066	3.0382386	20	4 26.5	20.5
443720 2015 LF_{1}	16.3	X	300.96809	131.70564	139.46834	16.62804	0.1597751	0.17827634	3.1266090	20	3 26.4	20.7
443721 2015 LL_{2}	17.4	X	123.63064	126.23145	128.79327	12.42094	0.1586428	0.26901298	2.3765880	20	12 4.7	21.4
443722 2015 LM_{9}	17.8	X	83.64511	215.65715	81.00988	2.51443	0.1749250	0.26391240	2.4071114	20	12 16.6	21.6
443723 2015 LT_{9}	15.8	X	80.02918	356.94461	255.65303	14.30531	0.2303163	0.24301859	2.5431758	20	10 17.5	20.1
443724 2015 LH_{12}	17.4	X	24.12720	170.55479	148.78450	4.25589	0.1831874	0.23598281	2.5934774	20	11 4.3	20.5
443725 2015 LK_{13}	17.0	X	134.37819	154.29391	129.83006	12.09112	0.2396836	0.28098561	2.3085892	20	—	—
443726 2015 LS_{15}	15.8	X	334.69010	144.18498	98.76578	13.25171	0.0867720	0.17812477	3.1283824	20	4 19.5	20.1
443727 2015 LT_{15}	15.5	X	60.81953	46.83895	98.36274	13.75601	0.0147758	0.17133285	3.2105218	20	4 15.0	20.2
443728 2015 LK_{19}	17.4	X	10.75944	144.74596	150.60937	3.86485	0.1806566	0.21837009	2.7311189	20	9 2.5	20.1
443729 2015 LF_{20}	16.5	X	252.48442	272.89646	215.92032	14.48153	0.0576100	0.24412807	2.5354647	20	11 20.2	19.7
443730 2015 LL_{20}	16.8	X	358.17058	180.86068	216.43628	11.52157	0.0781159	0.24763914	2.5114422	20	12 25.1	20.0
443731 2015 LX_{21}	16.8	X	15.03047	169.49243	100.46310	10.20626	0.2733041	0.21134004	2.7913536	20	8 19.6	19.5
443732 2015 LD_{22}	15.6	X	4.20598	333.75064	231.74504	16.77520	0.1671511	0.18031580	3.1029887	20	4 3.4	19.2
443733 2015 LE_{22}	16.7	X	56.98118	187.80775	131.50590	9.81576	0.2280261	0.25272736	2.4776191	20	12 22.3	20.5
443734 2015 LH_{22}	17.8	X	151.26274	122.16733	130.48469	0.78959	0.1633132	0.28007497	2.3135907	20	12 26.2	21.4
443735 2015 LC_{23}	15.8	X	290.96408	232.63249	76.95850	29.46208	0.3197626	0.17618154	3.1513438	20	4 20.4	20.9
443736 2015 LK_{23}	15.6	X	31.77676	292.38221	241.22094	10.56232	0.1468941	0.18153378	3.0890937	20	4 11.9	19.3
443737 2015 LT_{29}	16.1	X	310.44572	299.62185	100.74122	14.64847	0.2190843	0.21912204	2.7248672	20	10 5.9	19.0
443738 2015 LP_{30}	16.4	X	283.49237	224.86213	129.64427	4.31012	0.1492669	0.18393381	3.0621633	20	6 14.8	20.6
443739 2015 LP_{31}	17.4	X	40.84885	115.59168	279.13105	5.72702	0.1111864	0.27222469	2.3578583	20	—	—
443740 2015 LF_{32}	16.7	X	337.30884	46.13027	299.41139	5.60230	0.0403584	0.21511324	2.7586163	20	9 3.9	20.3
443741 2015 LZ_{32}	16.6	X	7.18747	182.69483	74.79162	5.58863	0.2117256	0.19112309	2.9848828	20	6 28.9	19.5
443742 2015 LX_{33}	15.4	X	339.71913	155.62229	113.01903	16.90526	0.0502447	0.17301110	3.1897262	20	5 30.6	19.9
443743 2015 LM_{34}	15.7	X	102.38795	81.55809	105.08460	12.68939	0.0585344	0.20021462	2.8938245	20	7 30.9	19.8
443744 2015 LX_{34}	15.8	X	297.90026	236.98966	98.51520	11.73782	0.1437079	0.18145879	3.0899448	20	6 11.4	19.8
443745 2015 LB_{35}	16.4	X	253.65427	17.96189	103.97052	12.50097	0.0567245	0.24354280	2.5395251	20	11 16.1	19.8
443746 2015 LE_{35}	16.6	X	338.62329	188.72898	111.02338	14.84364	0.1165838	0.18964121	3.0004121	20	7 2.2	20.1
443747 2015 LF_{38}	16.0	X	33.97283	197.51935	115.50120	13.21981	0.1190926	0.24133036	2.5550226	20	11 5.5	19.5
443748 2015 LO_{38}	15.7	X	273.38185	213.74370	95.55819	19.29537	0.1430215	0.17329010	3.1863016	20	4 17.3	20.7
443749 2015 LM_{39}	17.5	X	137.79682	1.49955	310.37655	9.95175	0.2690810	0.28328848	2.2960611	20	—	—
443750 2015 MG	16.2	X	267.61160	159.82103	156.78647	5.95101	0.2435468	0.17675533	3.1445200	20	3 30.5	21.2
443751 2015 MU_{6}	16.4	X	308.71646	63.07881	243.33008	8.44619	0.0592175	0.17671472	3.1450018	20	5 30.9	20.7
443752 2015 ML_{7}	16.8	X	333.33482	109.46619	260.68928	5.13339	0.0375088	0.22461757	2.6802393	20	10 2.6	20.3
443753 2015 MW_{7}	16.3	X	196.87928	152.42438	268.85316	8.31509	0.0589711	0.17432714	3.1736525	20	6 8.2	21.1
443754 2015 MK_{8}	15.6	X	304.74116	45.98943	273.12232	16.03871	0.0799881	0.17855545	3.1233499	20	6 8.3	19.9
443755 2015 MV_{8}	17.2	X	349.70411	117.18640	252.00032	8.28784	0.0857830	0.22795565	2.6540095	20	10 29.9	20.3
443756 2015 MB_{9}	15.4	X	278.35351	54.83353	286.95845	22.95702	0.0994339	0.17318637	3.1875738	20	5 29.7	20.2
443757 2015 MF_{9}	15.8	X	328.59474	28.91800	282.52377	13.77509	0.0430658	0.18747693	3.0234595	20	7 6.5	19.8
443758 2015 MB_{11}	16.8	X	5.88993	353.00753	4.36960	6.04336	0.0931711	0.23773009	2.5807541	20	11 11.4	19.9
443759 2015 MU_{23}	16.7	X	288.57559	47.51962	245.25145	3.17562	0.1875302	0.18011802	3.1052598	20	3 27.7	21.2
443760 2015 MC_{24}	17.5	X	101.97346	248.81793	50.91069	7.02031	0.1711342	0.27754521	2.3276279	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
443761 2015 MV_{25}	16.6	X	18.49739	218.52987	344.03011	3.52262	0.0784552	0.19134040	2.9826223	20	4 25.2	20.3
443762 2015 MR_{26}	16.8	X	120.53386	173.42712	332.16671	3.43504	0.0410489	0.21483965	2.7609577	20	6 27.3	20.7
443763 2015 ME_{31}	16.7	X	131.75663	51.95274	154.36753	6.39771	0.0640995	0.25527607	2.4611003	20	10 7.5	20.2
443764 2015 MG_{44}	16.7	X	100.19304	48.12066	185.29965	13.02611	0.1222210	0.24142471	2.5543568	20	10 8.3	20.3
443765 2015 MU_{52}	15.9	X	306.54252	358.53569	288.70693	22.59792	0.1014443	0.17162426	3.2068865	20	4 18.2	20.8
443766 2015 MC_{55}	16.7	X	11.17701	203.20114	123.83217	4.82663	0.1716248	0.23395990	2.6084055	20	10 23.5	19.5
443767 2015 MG_{55}	16.4	X	269.67337	220.50805	176.32709	15.06643	0.0967114	0.22591170	2.6699937	20	7 30.1	20.1
443768 2015 MB_{56}	15.4	X	39.52121	293.61585	273.73187	12.82963	0.1235825	0.18354659	3.0664685	20	6 10.0	19.1
443769 2015 MQ_{56}	16.7	X	140.09129	261.84875	292.38483	10.43074	0.1351068	0.23335601	2.6129036	20	9 22.2	21.0
443770 2015 MW_{56}	17.8	X	176.14387	163.42859	96.15461	2.39812	0.1705256	0.28672137	2.2776973	20	—	—
443771 2015 ME_{57}	15.9	X	341.30623	151.15599	114.33099	18.71043	0.0963377	0.17722893	3.1389156	20	5 27.3	20.1
443772 2015 MU_{57}	17.0	X	18.99262	243.72171	116.91567	11.15897	0.1985002	0.23687925	2.5869302	20	12 23.1	20.3
443773 2015 MB_{59}	15.2	X	319.77334	190.83803	108.16990	21.03510	0.1385284	0.17811864	3.1284542	20	6 1.6	19.3
443774 2015 MK_{65}	16.4	X	323.16623	19.62648	289.34890	9.13046	0.1668276	0.18334081	3.0687626	20	6 12.2	20.0
443775 2015 MW_{65}	15.8	X	322.69651	80.62483	236.97254	7.89714	0.1212498	0.18924771	3.0045698	20	6 28.2	19.5
443776 2015 MC_{67}	16.2	X	330.59000	203.85815	73.99227	7.20486	0.1936442	0.18962835	3.0005477	20	5 11.2	19.4
443777 2015 MS_{67}	17.1	X	110.15282	147.13225	105.49622	11.75760	0.0853223	0.24470752	2.5314606	20	11 13.3	21.0
443778 2015 MX_{67}	15.0	X	191.84371	294.98610	126.51996	19.32755	0.0436445	0.17118287	3.2123967	20	6 7.3	20.0
443779 2015 ML_{68}	16.7	X	325.76267	353.17081	298.60806	3.84015	0.1343625	0.18233624	3.0800236	20	5 27.4	20.5
443780 2015 MO_{68}	17.8	X	88.24112	235.29628	107.76235	7.77057	0.1430618	0.27342157	2.3509724	20	—	—
443781 2015 MW_{71}	16.2	X	317.07610	170.13195	133.14741	21.99551	0.0295213	0.18150074	3.0894686	20	6 14.6	20.8
443782 2015 MN_{73}	16.8	X	24.92134	119.96433	149.33035	4.24217	0.0644856	0.20330082	2.8644635	20	8 4.2	20.4
443783 2015 MB_{74}	15.0	X	187.98930	136.40732	283.36983	15.73219	0.0560557	0.17158394	3.2073889	20	5 26.7	20.0
443784 2015 ML_{74}	16.2	X	288.15281	86.13132	267.58614	8.79167	0.1646975	0.18513662	3.0488858	20	6 17.5	20.3
443785 2015 MH_{78}	15.1	X	88.58959	231.70601	282.48447	23.88556	0.0305121	0.16946480	3.2340722	20	5 26.4	20.0
443786 2015 ME_{89}	16.1	X	252.82850	202.79756	157.29668	10.26967	0.0707993	0.17175427	3.2052680	20	5 27.7	20.9
443787 2015 MD_{91}	15.1	X	62.19090	344.53631	271.97814	13.23959	0.0517486	0.19166893	2.9792131	20	8 29.6	19.5
443788 2015 MF_{92}	16.4	X	72.64344	138.03488	72.77895	14.55103	0.0847463	0.22432939	2.6825342	20	8 1.8	20.2
443789 2015 MZ_{92}	18.0	X	102.52501	145.58082	133.48163	6.06894	0.2145833	0.26377523	2.4079458	20	12 14.4	22.1
443790 2015 MB_{93}	15.7	X	299.07042	198.69649	105.40830	10.27360	0.1002985	0.18879985	3.0093194	20	5 11.9	19.8
443791 2015 MC_{93}	16.8	X	299.65629	142.20784	165.01139	8.88180	0.0915189	0.19083220	2.9879153	20	5 16.9	20.9
443792 2015 ML_{93}	17.8	X	88.56370	152.13430	148.80669	4.64189	0.2184883	0.26256785	2.4153219	20	12 28.4	21.7
443793 2015 MO_{93}	15.4	X	294.62533	204.58616	99.05639	17.80487	0.2424468	0.17827003	3.1266828	20	4 20.3	20.1
443794 2015 MS_{93}	16.2	X	209.47691	222.37119	235.85383	21.11456	0.0509016	0.22661669	2.6644534	20	8 3.9	20.5
443795 1917 $T\text{–}3$	17.0	X	280.63422	148.89911	273.68402	6.95044	0.3189657	0.20415049	2.8565102	20	8 11.7	20.8
443796 1960 SW	17.1	X	50.01634	116.30645	267.19451	1.07387	0.1995251	0.23420349	2.6065965	20	—	—
443797 1994 SQ_{11}	17.0	X	13.46592	9.57635	19.61852	9.93983	0.1256776	0.23353457	2.6115716	20	—	—
443798 1995 CO_{2}	17.1	X	242.88411	117.04582	305.49124	9.07963	0.2108639	0.17482454	3.1676300	20	7 15.7	22.0
443799 1995 UB_{19}	16.8	X	18.48091	194.67970	141.06898	2.98540	0.1164252	0.19877536	2.9077764	20	10 29.6	20.3
443800 1995 VL_{5}	18.2	X	125.30356	276.17753	104.54374	3.74810	0.1712476	0.29341427	2.2429274	20	1 30.9	21.0
443801 1996 LG_{3}	17.0	X	228.92111	326.97292	214.03932	12.90425	0.1939728	0.22684824	2.6626399	20	12 2.7	20.9
443802 1997 RH_{13}	18.4	X	71.85793	242.17268	174.34705	5.05959	0.3393159	0.27351195	2.3504545	20	1 27.8	20.0
443803 1997 SE_{6}	18.0	X	114.31171	2.53244	1.10785	8.06500	0.1266558	0.27540751	2.3396570	20	—	—
443804 1997 SE_{23}	17.3	X	253.30862	214.64861	18.08919	11.14932	0.0678500	0.27367226	2.3495365	20	—	—
443805 1997 WW	16.5	X	271.40690	317.27952	48.75115	13.52996	0.3364379	0.16121405	3.3434958	20	5 19.6	21.8
443806 1998 FL_{3}	22.0	X	157.51144	121.31686	180.11699	26.38521	0.2477228	0.69698048	1.2598601	20	—	—
443807 1998 FG_{48}	16.3	X	281.29981	182.71630	352.07217	13.02477	0.1618839	0.25596831	2.4566611	20	—	—
443808 1998 QP_{36}	17.3	X	66.17775	75.25131	281.72727	3.27975	0.3714589	0.23546901	2.5972488	20	—	—
443809 1998 TP_{38}	17.0	X	37.15116	182.13189	208.73342	4.83509	0.2880779	0.23353160	2.6115937	20	—	—
443810 1998 WF_{40}	17.3	X	351.24049	153.79365	235.15751	13.37611	0.2428800	0.22586791	2.6703388	20	12 18.3	20.0
443811 1998 XJ_{6}	17.7	X	31.73023	153.09063	224.62815	4.61862	0.2774621	0.22998413	2.6383808	20	—	—
443812 1999 RG_{31}	16.3	X	290.86722	33.99148	348.70984	27.49320	0.3477142	0.18170377	3.0871668	20	7 7.6	21.0
443813 1999 TQ_{68}	16.6	X	278.78187	177.08866	217.07945	10.86772	0.0812957	0.18096561	3.0955561	20	8 5.1	21.1
443814 1999 TW_{81}	17.8	X	47.55283	155.88239	186.11697	6.07555	0.0483286	0.24136776	2.5547586	20	12 14.8	21.3
443815 1999 TH_{84}	18.5	X	181.13429	301.19700	28.64354	6.73674	0.2437870	0.30687593	2.1768450	20	1 29.1	22.1
443816 1999 TR_{107}	14.8	X	201.13643	155.24167	237.06156	8.55005	0.2920440	0.12509331	3.9595575	20	5 2.1	21.5
443817 1999 TP_{211}	16.6	X	36.99501	109.25809	230.89236	23.34047	0.2852918	0.24076544	2.5590177	20	12 27.7	20.7
443818 1999 TS_{299}	17.4	X	276.70497	6.39017	32.10236	1.01149	0.1832737	0.17905770	3.1175066	20	7 27.6	21.7
443819 1999 TT_{322}	17.6	X	213.47151	8.19312	53.48212	17.71749	0.2155625	0.36588190	1.9360152	20	6 18.3	20.6
443820 1999 UB_{18}	16.4	X	308.99658	352.23590	30.06090	11.48405	0.1218347	0.18453816	3.0554740	20	9 7.8	20.3
443821 1999 UO_{34}	16.4	X	290.43933	165.80046	213.98896	12.88816	0.1229925	0.18000252	3.1065880	20	7 27.2	20.8
443822 1999 VP_{101}	15.8	X	315.31717	321.37016	52.21784	13.48043	0.1697521	0.18164432	3.0878404	20	9 3.5	19.6
443823 1999 VN_{209}	17.9	X	18.14944	335.06126	84.85333	3.80895	0.2122045	0.24297345	2.5434908	20	—	—
443824 1999 WF_{14}	16.8	X	286.91344	269.08942	138.23446	1.09459	0.2241615	0.18126287	3.0921708	20	8 16.0	20.8
443825 1999 WX_{18}	18.1	X	19.12206	359.38172	62.51144	4.34553	0.2350877	0.24368570	2.5385322	20	—	—
443826 1999 XM_{187}	16.4	X	292.72221	156.94121	308.32467	12.66133	0.1964028	0.23265586	2.6181431	20	11 29.1	19.2
443827 2000 AW_{167}	16.4	X	9.91522	279.15014	151.14654	18.13228	0.2511731	0.23930909	2.5693893	20	—	—
443828 2000 CC_{79}	17.6	X	205.55992	248.63975	274.34790	0.89567	0.1357467	0.22390594	2.6859152	20	10 21.7	21.6
443829 2000 CZ_{123}	15.9	X	322.10584	337.93273	127.10033	22.60818	0.0387187	0.23413475	2.6071066	20	—	—
443830 2000 GP_{131}	17.9	X	164.26596	275.05331	32.92619	4.16359	0.2099338	0.27729329	2.3290375	20	—	—
443831 2000 HV_{80}	17.7	X	139.15465	151.85196	141.52188	7.00052	0.4135432	0.26927915	2.3750216	20	—	—
443832 2000 OP_{60}	17.9	X	119.41972	184.37536	129.85405	4.80407	0.3160053	0.26497678	2.4006610	20	—	—
443833 2000 QP_{110}	17.6	X	88.95215	24.16560	332.97073	5.09100	0.2341888	0.26327984	2.4109654	20	—	—
443834 2000 SO_{174}	17.1	X	94.49573	38.41007	295.50658	7.70224	0.2205983	0.26008053	2.4306970	20	—	—
443835 2000 SR_{229}	17.3	X	56.03385	24.31972	22.24801	9.80868	0.2157330	0.26068428	2.4269425	20	—	—
443836 2000 SM_{232}	17.0	X	128.06112	97.25144	202.03048	22.40963	0.2503345	0.26313333	2.4118603	20	—	—
443837 2000 TJ_{1}	19.5	X	21.32669	52.51980	190.42675	39.53764	0.0809160	0.78834810	1.1605327	20	10 5.1	17.5
443838 2000 UL_{29}	18.0	X	210.27162	228.12860	223.95034	18.77843	0.1229435	0.38701870	1.8648679	20	8 3.5	20.7
443839 2000 WW_{28}	17.4	X	14.81790	27.79935	62.86399	4.55779	0.2371078	0.25738855	2.4476157	20	—	—
443840 2000 WT_{110}	16.9	X	318.70757	7.83984	48.26527	13.15021	0.2848748	0.19568194	2.9383412	20	10 29.1	19.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
443841 2000 WG_{170}	16.9	X	58.54414	344.58444	21.22440	8.18423	0.2113600	0.25618671	2.4552647	20	—	—
443842 2001 FA_{24}	16.8	X	105.77645	236.36794	7.60515	12.48964	0.4249383	0.22551987	2.6730855	20	11 5.5	22.2
443843 2001 FO_{185}	7.3	X	34.84996	336.86856	205.77531	10.62978	0.1190236	0.00309476	46.6356960	20	5 7.4	23.6
443844 2001 HU_{18}	18.6	X	211.26954	60.62977	188.59226	7.64143	0.3109016	0.29025076	2.2591954	20	—	—
443845 2001 OK_{36}	17.9	X	149.97775	155.78709	152.63106	7.20356	0.1461344	0.28240668	2.3008382	20	—	—
443846 2001 OR_{54}	16.4	X	81.99581	355.36777	335.18525	5.08041	0.1715973	0.22355689	2.6887103	20	—	—
443847 2001 OJ_{113}	17.9	X	129.96134	217.07876	139.39769	7.16259	0.2199731	0.28273199	2.2990729	20	1 11.9	21.0
443848 2001 PY_{29}	16.7	X	30.96541	77.29057	248.90803	6.14455	0.3218772	0.21477926	2.7614753	20	12 7.2	20.2
443849 2001 QW_{170}	18.2	X	177.85321	5.51625	312.32963	1.00740	0.2434366	0.28694238	2.2765276	20	1 11.7	22.0
443850 2001 QC_{203}	16.9	X	113.16092	262.78717	27.73280	4.45253	0.1535559	0.22322136	2.6914039	20	12 27.4	21.2
443851 2001 QE_{261}	17.0	X	124.25892	220.20078	167.84141	23.75180	0.2647209	0.28360508	2.2943520	20	2 20.1	20.4
443852 2001 RB_{39}	17.8	X	144.55454	82.01752	262.49316	1.70937	0.1654308	0.28354872	2.2946560	20	1 6.1	20.8
443853 2001 RE_{41}	17.7	X	139.39523	107.64664	242.39641	5.59056	0.1702362	0.28384508	2.2930585	20	1 7.3	20.7
443854 2001 RM_{51}	18.1	X	120.02898	55.08763	353.13735	6.63277	0.4004835	0.28562117	2.2835426	20	3 27.4	21.8
443855 2001 RT_{99}	17.7	X	167.86955	172.18561	141.95577	3.04510	0.2307442	0.28538330	2.2848113	20	—	—
443856 2001 RC_{107}	15.9	X	69.44222	181.18968	169.66937	26.51898	0.1869369	0.22012247	2.7166048	20	—	—
443857 2001 SB_{4}	17.8	X	144.30733	66.28328	276.71065	3.30335	0.1855973	0.28356640	2.2945606	20	1 6.4	20.8
443858 2001 SY_{30}	18.1	X	121.06658	209.72843	149.23916	3.02712	0.1738326	0.28060831	2.3106581	20	—	—
443859 2001 SF_{77}	16.7	X	5.33970	37.04190	332.20364	7.24415	0.2396086	0.21190059	2.7864288	20	12 11.6	19.9
443860 2001 SP_{89}	18.4	X	98.20464	183.60096	209.99087	3.85004	0.2224034	0.28175869	2.3043645	20	1 19.5	20.9
443861 2001 SY_{195}	16.4	X	33.27592	325.75267	355.64982	13.75139	0.0727764	0.21152646	2.7897134	20	10 22.2	20.2
443862 2001 SX_{207}	17.9	X	121.75954	10.98759	6.02298	7.08924	0.1252503	0.28341698	2.2953671	20	1 17.4	20.7
443863 2001 SZ_{246}	18.4	X	126.18028	227.21826	147.52953	2.39456	0.2386037	0.28227696	2.3015430	20	2 3.1	21.4
443864 2001 SL_{267}	16.6	X	299.02870	205.23013	193.63793	14.81395	0.1342159	0.20384717	2.8593431	20	9 7.1	20.3
443865 2001 ST_{278}	16.3	X	7.04700	193.03766	216.79313	14.96061	0.2777806	0.21415542	2.7668355	20	—	—
443866 2001 SB_{293}	18.9	X	117.13884	11.35792	2.60078	5.46879	0.2474768	0.28158854	2.3052926	20	1 25.8	21.8
443867 2001 SM_{304}	16.7	X	306.98461	82.99631	7.89745	12.92745	0.2187702	0.21195879	2.7859187	20	11 26.6	19.6
443868 2001 SX_{339}	18.3	X	132.41041	116.25965	243.33292	4.98114	0.2585170	0.28270902	2.2991975	20	1 22.7	21.5
443869 2001 TO_{24}	17.8	X	152.03401	25.40777	312.71660	4.85010	0.1930102	0.28245251	2.3005892	20	1 9.9	21.1
443870 2001 TB_{25}	15.8	X	75.06651	288.84353	5.90330	12.84266	0.2036032	0.21337337	2.7735920	20	11 26.6	20.4
443871 2001 TU_{50}	17.0	X	357.41497	200.87115	193.86987	17.42825	0.2270648	0.21276081	2.7789131	20	12 29.2	20.5
443872 2001 TK_{95}	16.5	X	312.72027	70.47231	7.87345	7.42144	0.2088419	0.20999725	2.8032402	20	11 22.9	19.2
443873 2001 TW_{99}	17.4	X	149.33865	352.00948	7.26172	10.17103	0.1022526	0.28330190	2.2959886	20	1 26.8	20.6
443874 2001 TV_{141}	18.1	X	126.22472	286.24032	82.67303	4.72864	0.2427488	0.28239323	2.3009112	20	1 28.4	21.2
443875 2001 TZ_{146}	18.1	X	130.77724	175.32976	173.48390	10.46810	0.2501788	0.28088192	2.3091573	20	1 6.7	21.4
443876 2001 TF_{161}	16.9	X	353.22854	44.99546	354.41938	4.73153	0.1243804	0.21392249	2.7688435	20	12 16.4	20.3
443877 2001 TZ_{184}	18.1	X	100.01327	16.93666	356.23667	4.06881	0.1543107	0.27813408	2.3243414	20	—	—
443878 2001 TB_{213}	18.2	X	121.88761	158.11518	230.02382	8.20886	0.2314398	0.28285834	2.2983882	20	2 11.3	21.4
443879 2001 TL_{257}	17.5	X	97.97708	350.24840	59.76471	6.08348	0.1982143	0.28201138	2.3029877	20	2 11.1	20.1
443880 2001 UZ_{16}	19.4	X	4.60764	28.55296	323.13970	12.67673	0.4261529	0.42239505	1.7592336	20	—	—
443881 2001 UX_{43}	18.0	X	117.98678	301.68002	82.30634	2.66944	0.2338155	0.28160819	2.3051854	20	2 6.3	20.9
443882 2001 UO_{87}	17.8	X	194.18192	49.17880	231.99065	5.52198	0.1569788	0.28123145	2.3072437	20	—	—
443883 2001 UB_{101}	17.6	X	23.45997	329.80107	22.94823	9.56765	0.2992951	0.21303932	2.7764905	20	12 27.5	21.4
443884 2001 UZ_{110}	17.4	X	153.73492	93.12983	224.40147	8.87959	0.1617445	0.27896622	2.3197168	20	—	—
443885 2001 UX_{135}	17.6	X	102.23729	349.15638	57.41507	8.62476	0.2835158	0.28054927	2.3109823	20	2 28.4	20.6
443886 2001 UF_{229}	18.3	X	96.53465	261.75721	146.38679	4.99914	0.2225771	0.28162704	2.3050825	20	2 7.4	20.7
443887 2001 VU_{5}	17.9	X	106.80070	322.70144	56.50892	7.02491	0.2613202	0.27924800	2.3181561	20	1 22.0	20.7
443888 2001 VX_{38}	18.0	X	56.09796	191.38877	245.79102	4.62324	0.1851343	0.27605217	2.3360131	20	—	—
443889 2001 VP_{109}	19.0	X	94.04670	94.82216	301.64384	1.87192	0.2767285	0.27832483	2.3232793	20	1 28.2	21.3
443890 2001 VO_{125}	18.2	X	53.53227	35.46873	51.62517	3.34567	0.1884313	0.27712162	2.3299992	20	1 9.2	19.9
443891 2001 WQ_{55}	17.7	X	97.72250	353.62165	50.14297	10.54856	0.1147788	0.27949770	2.3167752	20	1 19.1	20.4
443892 2001 XT_{4}	17.5	X	118.53384	311.25499	49.67263	6.22197	0.4182571	0.27767948	2.3268775	20	2 2.8	21.0
443893 2001 XT_{20}	17.3	X	64.98378	1.91834	56.88272	9.46733	0.2575727	0.27382657	2.3486537	20	—	—
443894 2001 XU_{104}	18.1	X	108.72583	357.73403	357.03610	0.86648	0.1931692	0.27340750	2.3510531	20	—	—
443895 2001 XP_{170}	15.0	X	133.00391	125.09195	307.55289	7.43074	0.2812300	0.12558196	3.9492796	20	4 29.4	21.6
443896 2001 XH_{220}	17.8	X	120.69550	310.50542	44.08823	4.44059	0.2234094	0.27720071	2.3295560	20	—	—
443897 2001 YO_{36}	18.2	X	110.12167	350.18149	32.20215	3.18628	0.2476740	0.27792011	2.3255342	20	1 28.3	21.0
443898 2001 YO_{92}	17.9	X	128.56423	308.45465	63.38425	2.40820	0.2550964	0.28008954	2.3135104	20	2 5.4	21.1
443899 2002 AE_{19}	16.2	X	309.39599	6.98729	59.48214	17.83721	0.2117697	0.20231610	2.8737507	20	11 2.3	19.1
443900 2002 CU_{13}	17.6	X	295.09570	341.14509	154.21137	5.37359	0.3152360	0.25834860	2.4415482	20	—	—
443901 2002 CD_{70}	15.8	X	68.56151	246.26933	327.01690	14.41085	0.1468032	0.18150700	3.0893975	20	8 4.5	20.1
443902 2002 CJ_{235}	18.0	X	281.49562	191.48369	316.20382	6.07609	0.1343546	0.25911906	2.4367061	20	—	—
443903 2002 CJ_{309}	15.6	X	65.10077	261.09918	332.18445	14.12606	0.2247791	0.18297652	3.0728343	20	9 2.4	20.0
443904 2002 DA_{14}	17.8	X	283.76722	86.85820	88.44108	2.59686	0.1086482	0.26097096	2.4251648	20	—	—
443905 2002 EM_{24}	18.4	X	27.85047	283.88860	167.98569	1.36138	0.1536931	0.26521689	2.3992118	20	—	—
443906 2002 EY_{40}	15.0	X	50.24306	242.44400	10.82147	26.31352	0.2499489	0.17607894	3.1525678	20	9 20.3	19.4
443907 2002 EB_{60}	15.7	X	45.62626	61.67006	168.34495	27.10457	0.2568338	0.17575228	3.1564729	20	8 7.2	20.1
443908 2002 GA_{48}	15.8	X	15.98267	271.37565	12.26677	15.82971	0.1780136	0.17565508	3.1576373	20	8 26.4	19.6
443909 2002 GM_{74}	17.2	X	259.12772	334.97193	210.59041	4.43480	0.2016537	0.25527281	2.4611212	20	—	—
443910 2002 GC_{102}	15.6	X	126.68106	4.63460	183.37651	22.80865	0.1179581	0.18015973	3.1047805	20	8 29.4	20.6
443911 2002 GG_{183}	15.7	X	61.58140	24.81810	207.20042	8.33697	0.0401541	0.17477926	3.1681772	20	7 29.4	20.3
443912 2002 NF_{21}	17.3	X	82.67208	25.97152	258.25337	4.52418	0.3046468	0.23246936	2.6195432	20	12 4.9	21.9
443913 2002 PO	17.4	X	63.31095	142.45501	172.64762	4.57177	0.2511437	0.23068116	2.6330633	20	12 20.8	21.6
443914 2002 PW_{72}	17.0	X	37.25113	103.08565	273.58198	11.40688	0.2948856	0.23204238	2.6227557	20	—	—
443915 2002 PG_{112}	16.4	X	53.85068	258.89517	152.49424	27.34505	0.1741866	0.24037847	2.5617633	20	—	—
443916 2002 PO_{157}	17.7	X	239.34760	346.56606	324.29741	7.79348	0.1557317	0.31288560	2.1488808	20	2 20.7	21.0
443917 2002 PE_{179}	17.0	X	25.68697	80.89305	273.99417	11.41880	0.2834117	0.22645868	2.6656926	20	—	—
443918 2002 PZ_{187}	17.3	X	52.51070	47.96351	320.26537	9.71097	0.2172631	0.23516944	2.5994539	20	—	—
443919 2002 QJ_{36}	18.3	X	201.27340	195.38089	107.95532	7.72377	0.2555420	0.30695451	2.1764734	20	1 10.8	22.0
443920 2002 QW_{38}	17.3	X	20.83436	173.18594	168.81617	13.85773	0.2340657	0.22452639	2.6809649	20	12 5.2	20.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
443921 2002 QH_{41}	16.9	X	62.50074	359.36393	328.04054	11.94936	0.2732268	0.23201431	2.6229672	20	—	—
443922 2002 QL_{110}	16.9	X	107.91802	325.15460	319.43323	12.45344	0.0956664	0.23342605	2.6123809	20	12 14.9	21.0
443923 2002 RU_{25}	17.6	X	205.34328	306.34990	5.05342	28.90001	0.4831261	0.30686455	2.1768988	20	2 9.5	22.6
443924 2002 RS_{31}	17.4	X	38.24953	157.62695	215.72613	3.20288	0.3019023	0.23018912	2.6368142	20	—	—
443925 2002 RW_{81}	16.9	X	23.40818	47.18576	346.68006	9.79445	0.2411767	0.22980063	2.6397851	20	—	—
443926 2002 RS_{172}	17.2	X	46.82200	72.79107	316.01198	5.35005	0.2190164	0.23411294	2.6072686	20	—	—
443927 2002 SK_{27}	16.6	X	27.67385	294.31349	87.36072	14.33050	0.2696839	0.22845420	2.6501469	20	—	—
443928 2002 SL_{47}	17.3	X	28.75705	185.15035	183.17210	14.64110	0.2093832	0.22801155	2.6535757	20	—	—
443929 2002 SB_{50}	16.6	X	34.11208	353.74978	18.56320	14.54276	0.2644146	0.22890033	2.6467024	20	—	—
443930 2002 SO_{56}	17.9	X	169.27484	323.39223	44.27304	8.51343	0.2083712	0.30473350	2.1870359	20	3 6.4	21.4
443931 2002 TR_{34}	18.3	X	167.35441	94.20032	272.47365	0.75644	0.1960435	0.30426972	2.1892577	20	2 26.9	21.6
443932 2002 TX_{135}	18.0	X	102.62820	97.09039	297.35833	6.10813	0.1763057	0.29639111	2.2278841	20	1 17.9	20.2
443933 2002 TU_{165}	16.7	X	64.46312	15.18307	300.50286	13.30439	0.2575468	0.22942822	2.6426409	20	12 23.8	21.0
443934 2002 TY_{214}	17.1	X	329.28518	252.16587	172.99215	12.93653	0.2617583	0.22271690	2.6954665	20	12 23.5	19.6
443935 2002 TY_{232}	16.2	X	26.70005	96.68631	278.95974	12.08429	0.0780578	0.22734461	2.6587629	20	12 31.4	19.6
443936 2002 TP_{299}	17.3	X	338.92617	16.64386	46.14551	9.40838	0.2440814	0.22376867	2.6870136	20	—	—
443937 2002 TF_{311}	18.1	X	345.66426	298.31598	140.42856	8.11742	0.1936480	0.22743183	2.6580831	20	—	—
443938 2002 TB_{329}	17.6	X	340.05582	11.06230	47.55000	2.74469	0.1984651	0.22570045	2.6716595	20	—	—
443939 2002 UR_{8}	16.5	X	0.35088	295.98715	86.34235	13.85651	0.2725426	0.22269959	2.6956061	20	12 30.2	19.3
443940 2002 UD_{31}	16.8	X	5.75098	164.08763	249.31127	7.84364	0.2799134	0.22647192	2.6655887	20	—	—
443941 2002 UJ_{66}	17.8	X	12.77411	260.87244	182.38544	6.01759	0.3403948	0.23102925	2.6304178	20	—	—
443942 2002 VG_{14}	17.9	X	324.61947	311.12160	47.89711	21.24343	0.1199349	0.38225369	1.8803337	20	10 21.9	19.0
443943 2002 VT_{23}	17.5	X	345.29627	177.55364	244.29879	5.94559	0.2737969	0.22329823	2.6907862	20	—	—
443944 2002 VE_{71}	18.0	X	161.37507	298.42322	66.81424	4.85657	0.2095903	0.30185796	2.2009033	20	2 23.5	21.3
443945 2002 VL_{87}	17.0	X	34.78056	124.77350	248.85024	10.09040	0.3142500	0.22671009	2.6637215	20	—	—
443946 2002 VF_{96}	16.3	X	36.98736	299.51335	66.85439	12.55096	0.0894780	0.22589789	2.6701025	20	—	—
443947 2002 VY_{116}	16.6	X	1.47746	4.26422	17.61403	12.63254	0.1479914	0.22141710	2.7060051	20	12 9.8	20.0
443948 2002 XO_{32}	16.1	X	274.13256	154.92711	277.10270	24.24708	0.1626987	0.21201593	2.7854181	20	8 28.8	20.4
443949 2002 XR_{32}	16.5	X	335.37600	112.01333	310.92085	11.68675	0.1681725	0.22044922	2.7139197	20	12 25.3	19.4
443950 2002 XZ_{39}	18.2	X	56.74466	10.49266	82.29153	3.23909	0.4174744	0.29087641	2.2559547	20	3 7.3	18.7
443951 2003 AX_{15}	17.7	X	16.64484	65.91682	94.49411	6.70923	0.1163793	0.29299338	2.2450750	20	2 12.1	19.6
443952 2003 BJ_{73}	16.7	X	315.01283	145.59736	332.54043	9.10378	0.4088391	0.22190961	2.7019998	20	—	—
443953 2003 DW_{17}	17.1	X	302.43277	104.41061	113.10485	9.97019	0.1936014	0.28476188	2.2881341	20	—	—
443954 2003 EU_{13}	17.3	X	260.93802	320.80018	172.33567	10.05852	0.2269827	0.21055685	2.7982711	20	11 5.8	21.0
443955 2003 EC_{43}	17.5	X	282.45378	96.96585	109.83253	4.89290	0.1361831	0.27654139	2.3332573	20	—	—
443956 2003 GD_{57}	18.0	X	314.85633	62.77709	120.83914	3.09713	0.1330760	0.27815105	2.3242469	20	—	—
443957 2003 HM_{34}	17.7	X	144.85913	150.38446	141.72367	2.62356	0.2151824	0.26217309	2.4177458	20	—	—
443958 2003 HW_{36}	16.7	X	334.98750	113.50871	182.53496	22.92873	0.2423316	0.17542801	3.1603615	20	6 9.1	20.5
443959 2003 HS_{43}	16.9	X	39.62760	111.76044	171.99922	4.40607	0.1666797	0.18733001	3.0250402	20	9 27.4	20.9
443960 2003 JH_{6}	16.8	X	251.80893	21.11083	219.62359	13.82235	0.1751566	0.27257434	2.3558415	20	—	—
443961 2003 KO_{28}	16.6	X	47.96116	80.37846	145.59930	12.75004	0.1455037	0.17992880	3.1074365	20	7 20.3	20.6
443962 2003 QR_{42}	18.3	X	93.01461	252.43720	66.27152	0.22649	0.3541212	0.24890378	2.5029282	20	—	—
443963 2003 RM_{27}	17.8	X	5.73701	83.39456	331.73096	7.69445	0.2344714	0.24403208	2.5361295	20	—	—
443964 2003 SF_{92}	18.4	X	38.13922	45.34062	355.80874	7.68871	0.1816100	0.24650496	2.5191398	20	—	—
443965 2003 SA_{150}	17.3	X	52.58278	212.61166	115.29382	5.01085	0.3185756	0.24227283	2.5483921	20	—	—
443966 2003 SQ_{174}	18.2	X	27.45112	57.94832	351.18962	4.27437	0.2797751	0.24563067	2.5251140	20	—	—
443967 2003 SA_{241}	18.5	X	68.51128	300.48444	8.90007	2.92622	0.2121921	0.24149939	2.5538302	20	12 16.9	22.6
443968 2003 SX_{273}	17.7	X	27.28485	358.16254	32.09396	6.52483	0.2411135	0.24266903	2.5456175	20	—	—
443969 2003 SX_{304}	17.2	X	73.69793	191.91497	212.33429	11.15679	0.1788093	0.25184982	2.4833710	20	—	—
443970 2003 SB_{312}	18.9	X	53.16043	359.02361	27.06971	4.08760	0.2957131	0.24708505	2.5151955	20	—	—
443971 2003 SR_{318}	18.3	X	51.23558	158.29750	190.63498	6.73806	0.1451578	0.24290459	2.5439715	20	—	—
443972 2003 TN_{1}	19.6	X	220.59114	54.60988	13.67725	19.22820	0.1358007	0.57460756	1.4329196	20	8 20.9	20.5
443973 2003 TX_{26}	17.0	X	205.16550	42.11136	219.58421	13.19394	0.0885285	0.25328198	2.4740009	20	—	—
443974 2003 TK_{54}	17.4	X	354.91614	321.59806	127.41739	4.83775	0.0679258	0.24631925	2.5204058	20	—	—
443975 2003 UF_{104}	16.8	X	317.56914	139.14812	293.28459	6.40854	0.1976414	0.23406820	2.6076008	20	12 7.4	19.0
443976 2003 UY_{196}	17.4	X	38.18250	202.45514	207.60609	10.12336	0.1797262	0.24572887	2.5244412	20	—	—
443977 2003 UE_{234}	18.2	X	45.13234	351.24653	37.17403	6.51432	0.2971691	0.24357679	2.5392889	20	—	—
443978 2003 UV_{277}	16.7	X	17.80403	19.99861	36.41426	18.00018	0.1665035	0.24421690	2.5348498	20	—	—
443979 2003 UJ_{278}	17.9	X	8.81720	139.00900	250.18318	2.49392	0.2660560	0.23873137	2.5735329	20	—	—
443980 2003 UP_{355}	17.7	X	57.29624	49.42763	323.27510	1.97951	0.2107861	0.24485988	2.5304104	20	—	—
443981 2003 UF_{379}	18.3	X	61.40670	122.05867	192.46941	16.71439	0.2411879	0.24108698	2.5567419	20	12 18.9	22.6
443982 2003 VF_{4}	16.8	X	341.76031	172.32381	285.02519	5.37513	0.1973187	0.24033926	2.5620419	20	—	—
443983 2003 WP_{19}	16.9	X	287.96418	207.44199	265.84430	13.10162	0.0986920	0.23434748	2.6055287	20	12 13.7	19.9
443984 2003 WT_{35}	17.5	X	58.92915	81.39938	314.49784	3.85355	0.2046199	0.24712105	2.5149512	20	—	—
443985 2003 WD_{54}	17.5	X	17.86468	2.37344	34.19081	9.47681	0.1590825	0.23897032	2.5718171	20	—	—
443986 2003 WA_{74}	17.5	X	55.16368	359.32969	18.72047	6.04426	0.2412431	0.24303950	2.5430299	20	—	—
443987 2003 WP_{77}	17.2	X	29.83993	304.36345	100.18641	11.14903	0.2536207	0.24146982	2.5540387	20	—	—
443988 2003 WU_{115}	17.0	X	348.61055	139.96237	310.97056	3.18541	0.2163997	0.23947190	2.5682246	20	—	—
443989 2003 WD_{120}	17.2	X	351.46549	169.65499	270.14526	7.45751	0.1964068	0.23826346	2.5769011	20	—	—
443990 2003 WQ_{134}	17.1	X	16.35361	194.12787	240.63764	10.16001	0.2184536	0.24249064	2.5468658	20	—	—
443991 2003 WA_{137}	17.1	X	347.88347	165.70797	250.44097	14.40605	0.2355321	0.23561176	2.5961996	20	—	—
443992 2003 WT_{171}	17.5	X	53.27436	184.98346	202.82075	15.83231	0.3443675	0.24506631	2.5289892	20	—	—
443993 2003 XS_{2}	17.5	X	356.75561	289.83898	161.27902	4.48265	0.2824340	0.24061103	2.5601124	20	—	—
443994 2003 XN_{10}	16.3	X	22.76139	84.10140	346.05094	31.60772	0.2492209	0.23876692	2.5732775	20	—	—
443995 2003 XT_{12}	17.4	X	39.45373	72.05642	333.14599	10.41204	0.3505779	0.24268039	2.5455381	20	—	—
443996 2003 YD_{5}	16.7	X	39.40945	158.85671	240.64073	13.17939	0.1640064	0.24218498	2.5490083	20	—	—
443997 2003 YZ_{19}	17.3	X	345.89038	70.60743	358.92987	2.23576	0.2063025	0.23359561	2.6111166	20	—	—
443998 2003 YO_{27}	17.0	X	330.34768	166.81803	254.59041	11.26485	0.1700979	0.23339155	2.6126383	20	12 17.3	19.3
443999 2003 YH_{33}	17.6	X	23.76984	316.57497	109.57008	11.12457	0.2973182	0.24292113	2.5438560	20	—	—
444000 2003 YV_{36}	17.7	X	24.74764	344.72372	62.56673	3.86269	0.2461477	0.23793644	2.5792617	20	—	—