Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
424001 2006 VP_{152}	18.4	X	346.36836	263.48515	132.31617	1.77203	0.1843236	0.26455117	2.4032351	21	12 7.9	20.4
424002 2006 VH_{170}	17.8	X	292.73458	324.96422	100.16419	3.96006	0.2189260	0.25712136	2.4493110	21	9 20.4	20.2
424003 2006 WD_{3}	16.5	X	8.94729	96.21914	263.62533	19.86256	0.3817029	0.26614001	2.3936608	21	12 31.2	19.1
424004 2006 WU_{52}	17.7	X	188.67004	37.75473	39.28145	3.45105	0.0805152	0.23933935	2.5691728	21	6 10.0	21.4
424005 2006 WK_{56}	17.4	X	236.62253	119.12224	265.02977	8.82559	0.1815951	0.24010301	2.5637223	21	5 16.6	21.4
424006 2006 WZ_{56}	17.8	X	282.07755	56.69795	13.71726	0.90957	0.1661726	0.25455875	2.4657215	21	9 16.2	20.4
424007 2006 WU_{80}	16.9	X	36.31632	351.30611	251.10270	11.17242	0.0725744	0.24248462	2.5469079	21	7 5.0	19.9
424008 2006 WF_{83}	17.6	X	288.55293	211.14540	247.06115	4.53727	0.1876324	0.26149726	2.4219097	21	11 4.3	19.8
424009 2006 WP_{93}	17.1	X	202.91484	7.89456	70.59323	13.11818	0.0612685	0.24330674	2.5411675	21	6 29.1	20.7
424010 2006 WS_{97}	18.0	X	283.70946	148.95066	242.64486	2.63513	0.2803290	0.25213116	2.4815233	21	7 4.9	21.4
424011 2006 WD_{101}	17.3	X	288.15774	357.46655	86.21563	6.58259	0.1770529	0.25961571	2.4335974	21	10 18.6	19.8
424012 2006 WG_{111}	17.4	X	79.16557	281.26277	74.28049	10.52003	0.1658429	0.27406252	2.3473055	21	—	—
424013 2006 WZ_{123}	17.9	X	55.01155	302.76103	17.34664	6.22515	0.1408415	0.26689817	2.3891256	21	12 2.2	21.0
424014 2006 WU_{129}	17.5	X	337.50354	83.46589	297.71918	5.40957	0.1373897	0.26166403	2.4208806	21	10 19.8	19.9
424015 2006 WQ_{133}	17.6	X	234.06889	232.36078	241.28604	9.99153	0.1956131	0.25524680	2.4612885	21	9 2.8	21.6
424016 2006 WR_{146}	17.1	X	130.15340	200.66147	57.98023	6.13662	0.0892695	0.26228745	2.4170430	21	12 1.8	20.7
424017 2006 WF_{191}	17.9	X	297.07936	338.50953	75.21936	6.05028	0.1696606	0.25672588	2.4518258	21	9 21.1	20.5
424018 2006 WZ_{194}	18.0	X	323.20392	298.43064	98.45251	4.54044	0.2543834	0.25971335	2.4329875	21	10 13.8	19.4
424019 2006 XM_{9}	17.3	X	201.35160	50.02070	55.07154	3.21807	0.0808119	0.24291421	2.5439043	21	8 2.6	21.0
424020 2006 XS_{13}	17.4	X	273.61744	43.92107	60.91678	1.90206	0.1404177	0.25821234	2.4424071	21	10 26.9	20.0
424021 2006 XX_{15}	17.1	X	299.84437	137.50810	266.05262	8.63522	0.1403151	0.25251798	2.4789885	21	9 5.4	20.0
424022 2006 XZ_{26}	16.5	X	231.21974	139.45866	281.29664	25.87726	0.3001314	0.24200764	2.5502534	21	6 21.4	21.0
424023 2006 XY_{31}	17.5	X	263.31632	301.68291	81.36698	24.08042	0.1234906	0.37594725	1.9013035	21	6 17.3	19.2
424024 2006 XK_{41}	17.4	X	338.26056	356.31665	101.30369	5.17980	0.0996752	0.26680385	2.3896886	21	—	—
424025 2006 XW_{46}	17.9	X	201.20672	181.94741	270.52858	11.91802	0.2670027	0.24223586	2.5486513	21	7 7.1	22.3
424026 2006 XK_{53}	17.5	X	308.07717	158.91513	288.74350	4.90360	0.1615053	0.25894505	2.4377976	21	11 30.9	19.8
424027 2006 XG_{62}	16.5	X	145.98294	15.95895	116.79245	34.47034	0.1901489	0.23303047	2.6153365	21	7 13.3	20.9
424028 2006 XN_{62}	16.7	X	189.55713	108.13750	97.39746	8.19191	0.0764216	0.25673137	2.4517909	21	11 30.3	20.2
424029 2006 XA_{72}	17.5	X	198.52047	70.90857	119.59413	4.40996	0.0622059	0.25504415	2.4625920	21	11 22.7	20.8
424030 2006 YE_{7}	17.2	X	247.74410	187.29584	215.50764	10.35169	0.2217354	0.24587145	2.5234652	21	6 17.5	21.2
424031 2006 YU_{13}	18.0	X	350.65204	2.57424	13.27583	1.46690	0.2011882	0.26008555	2.4306657	21	11 16.4	19.9
424032 2006 YV_{13}	17.7	X	255.85682	202.54120	348.33196	2.16715	0.1339877	0.26918381	2.3755823	21	—	—
424033 2006 YS_{17}	16.1	X	32.24293	216.68529	298.27091	10.30095	0.2508710	0.21409379	2.7673664	21	3 1.3	18.5
424034 2006 YO_{22}	17.2	X	266.37892	189.96422	310.12808	4.04628	0.1114328	0.26057503	2.4276208	21	12 7.9	20.0
424035 2006 YA_{48}	17.5	X	272.32661	138.70936	358.00312	2.39647	0.1281747	0.25591760	2.4569856	21	12 9.2	20.2
424036 2007 AA_{11}	17.3	X	295.21875	323.78114	116.89177	5.09073	0.1708120	0.25573684	2.4581432	21	10 26.7	19.7
424037 2007 AH_{13}	17.2	X	183.27299	145.51223	302.70094	19.26448	0.0696448	0.36940215	1.9236960	21	6 18.3	19.6
424038 2007 AH_{15}	16.8	X	260.25201	179.07484	325.62995	8.92087	0.1510247	0.25718528	2.4489052	21	11 26.3	19.9
424039 2007 AH_{17}	17.0	X	277.71003	29.66205	112.64436	7.57131	0.1364267	0.26021580	2.4298546	21	12 26.6	19.4
424040 2007 AU_{20}	18.3	X	155.39896	33.47851	125.18791	24.33466	0.0659029	0.37505500	1.9043177	21	9 1.7	20.6
424041 2007 AD_{28}	17.7	X	206.11026	285.54078	300.57408	4.65663	0.1453075	0.26088813	2.4256781	21	—	—
424042 2007 AV_{28}	18.0	X	299.71298	101.57834	4.97812	1.08224	0.1458269	0.25870106	2.4393301	21	12 13.8	20.1
424043 2007 BA_{4}	17.5	X	312.64471	159.72433	285.89479	5.37553	0.1508464	0.25962721	2.4335255	21	12 8.4	19.7
424044 2007 BZ_{5}	16.1	X	207.41365	102.91798	317.01301	21.40181	0.0547879	0.23406084	2.6076555	21	6 11.0	20.3
424045 2007 BC_{7}	17.7	X	228.90569	157.81943	312.20382	13.27644	0.1226820	0.24582093	2.5238109	21	8 31.7	21.5
424046 2007 BU_{11}	17.1	X	216.24971	100.90881	326.98275	11.32440	0.2182156	0.23775317	2.5805870	21	6 22.0	21.6
424047 2007 BE_{25}	17.5	X	275.36058	356.23377	105.53241	4.80217	0.1610870	0.25384427	2.4703461	21	10 23.4	20.3
424048 2007 BH_{35}	17.5	X	257.53518	77.50700	44.38329	3.33717	0.1385421	0.25307814	2.4753292	21	10 25.9	20.4
424049 2007 BW_{40}	17.4	X	313.67675	220.23138	191.00505	2.24458	0.2047381	0.25414058	2.4684256	21	10 12.9	19.5
424050 2007 BE_{42}	17.6	X	154.48574	206.58067	310.00223	18.57527	0.0140243	0.37510376	1.9041527	21	8 17.9	19.4
424051 2007 BE_{43}	17.3	X	221.88119	106.83783	124.47001	6.39076	0.0757876	0.26490508	2.4010941	21	—	—
424052 2007 BT_{55}	17.1	X	242.03521	64.93436	7.59900	3.75823	0.1469428	0.24263052	2.5458868	21	7 30.4	20.8
424053 2007 BE_{63}	17.5	X	282.02473	192.78183	206.41326	1.36904	0.2196873	0.24458798	2.5322854	21	7 22.9	20.8
424054 2007 BP_{63}	17.2	X	188.70536	80.19238	70.49459	4.24256	0.0897049	0.24415435	2.5352828	21	9 18.4	20.9
424055 2007 BG_{71}	17.2	X	147.98793	0.82735	155.80683	6.92924	0.1234021	0.23469246	2.6029748	21	8 10.2	21.2
424056 2007 BV_{80}	17.5	X	208.61606	102.38875	130.84577	3.26172	0.1897731	0.26107118	2.4245441	21	—	—
424057 2007 BZ_{101}	16.7	X	258.61791	14.96780	60.08481	12.89173	0.2152366	0.24600029	2.5225840	21	8 17.9	20.5
424058 2007 BL_{102}	16.9	X	58.28840	191.62212	15.35844	5.57553	0.1370577	0.22207579	2.7006517	21	7 1.1	20.2
424059 2007 CU_{13}	17.4	X	253.02235	305.31931	99.89188	2.19816	0.1996140	0.24006146	2.5640181	21	6 28.8	21.1
424060 2007 CV_{13}	17.1	X	210.83886	228.67493	223.19643	2.68970	0.2186081	0.23954803	2.5676805	21	7 16.4	21.3
424061 2007 CT_{32}	16.3	X	265.56412	170.42906	139.47325	12.43549	0.1171425	0.21966684	2.7203600	21	3 25.7	20.4
424062 2007 CE_{45}	16.8	X	162.44412	175.68456	305.53704	12.46011	0.1325335	0.23342479	2.6123903	21	7 12.2	20.9
424063 2007 CP_{46}	16.4	X	120.57934	235.18764	321.54871	6.52405	0.0859829	0.23732712	2.5836746	21	8 29.8	20.1
424064 2007 CQ_{54}	18.3	X	185.89643	331.90628	150.74687	7.37050	0.2963214	0.23988486	2.5652763	21	8 1.6	23.0
424065 2007 CF_{63}	17.4	X	262.30588	81.00091	334.07152	18.88770	0.1170206	0.37719767	1.8970992	21	8 14.5	19.0
424066 2007 CM_{63}	17.4	X	163.38321	296.38396	146.16858	25.36633	0.0261646	0.36109393	1.9530915	21	5 16.6	20.3
424067 2007 CJ_{65}	16.9	X	25.49757	150.32470	148.51119	10.61976	0.1726343	0.23787892	2.5796774	21	9 25.3	19.7
424068 2007 DL_{1}	17.6	X	267.43717	256.21397	133.93326	3.79815	0.2185668	0.24208909	2.5496813	21	6 22.5	21.3
424069 2007 DV_{1}	17.9	X	212.44070	228.40561	231.93064	2.67979	0.1237790	0.23929039	2.5695232	21	8 3.5	21.9
424070 2007 DB_{2}	17.1	X	133.08034	344.36315	192.23488	4.65923	0.2199050	0.23374489	2.6100047	21	8 25.7	21.4
424071 2007 DA_{11}	16.7	X	124.71996	350.46576	163.08703	13.12336	0.0954681	0.22762114	2.6566091	21	7 9.1	20.8
424072 2007 DF_{16}	17.2	X	29.54596	300.68661	103.28552	5.21093	0.0236144	0.26003785	2.4309629	21	—	—
424073 2007 DY_{18}	17.2	X	159.86637	196.55185	337.43151	12.15520	0.0869153	0.23881181	2.5729549	21	9 12.3	21.1
424074 2007 DA_{21}	16.9	X	139.44668	4.96028	152.49307	9.87056	0.1651972	0.23195936	2.6233815	21	8 4.6	21.0
424075 2007 DZ_{22}	16.8	X	207.34486	145.93566	335.21208	10.53228	0.0772707	0.23910364	2.5708610	21	8 29.8	20.4
424076 2007 DV_{27}	17.5	X	218.26374	19.15653	93.49193	2.60151	0.1644036	0.24020511	2.5629958	21	8 24.3	21.3
424077 2007 DR_{30}	17.4	X	91.74043	99.00848	148.35320	5.00979	0.1639492	0.23601926	2.5932104	21	10 12.9	21.3
424078 2007 DN_{31}	17.3	X	50.20288	101.30901	146.64290	2.56662	0.1245565	0.22903896	2.6456342	21	8 13.0	20.5
424079 2007 DZ_{31}	17.3	X	180.46626	125.24151	155.12502	6.16499	0.1105345	0.26004108	2.4309428	21	—	—
424080 2007 DU_{35}	16.5	X	50.91739	313.19276	345.80064	11.78225	0.0560560	0.24012636	2.5635561	21	10 9.5	20.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
424081 2007 DS_{39}	17.0	X	156.53423	334.68514	160.89348	14.02795	0.2179457	0.23254788	2.6189535	21	7 25.0	21.6
424082 2007 DY_{39}	17.6	X	265.79002	163.16795	310.29750	8.92890	0.1469987	0.25439962	2.4667496	21	10 19.9	20.8
424083 2007 DR_{40}	16.5	X	160.70145	39.22768	113.81816	33.78962	0.2465674	0.23254259	2.6189933	21	8 23.9	21.4
424084 2007 DN_{48}	17.8	X	90.59380	256.07864	336.39197	19.98140	0.0503903	0.37316762	1.9107333	21	9 13.7	19.7
424085 2007 DP_{53}	16.4	X	67.27125	262.72569	345.28445	17.43699	0.1131554	0.23050491	2.6344053	21	9 5.8	19.7
424086 2007 DY_{71}	17.6	X	80.97340	195.63280	24.85486	3.14481	0.0617465	0.23022571	2.6365348	21	8 10.6	21.1
424087 2007 DU_{73}	18.1	X	220.58381	310.66286	160.49460	5.68262	0.1874461	0.24034337	2.5620127	21	8 21.2	22.2
424088 2007 DQ_{82}	17.5	X	3.90073	246.49333	358.90674	18.97797	0.0476627	0.35994697	1.9572383	21	4 26.2	19.5
424089 2007 DU_{103}	17.6	X	196.64318	294.61261	338.25049	23.20263	0.5008237	0.25496430	2.4631062	21	—	—
424090 2007 DH_{104}	17.6	X	115.38218	68.27701	84.46256	23.80791	0.0691367	0.36399663	1.9426943	21	6 21.3	19.4
424091 2007 DO_{109}	17.1	X	237.02029	356.86850	355.00405	7.54687	0.0209867	0.21841536	2.7307416	21	4 18.7	20.9
424092 2007 DW_{109}	17.6	X	81.87938	265.62635	351.55110	4.23647	0.0908643	0.23648177	2.5898281	21	10 2.8	21.2
424093 2007 DF_{112}	17.2	X	151.35374	129.81579	19.78901	9.77457	0.0892356	0.22889513	2.6467424	21	8 7.7	21.3
424094 2007 EC_{9}	17.5	X	156.39316	211.65532	6.37646	8.57488	0.1265694	0.24223575	2.5486521	21	11 3.0	21.5
424095 2007 EP_{10}	17.1	X	174.96052	159.15558	337.41289	10.95024	0.0273015	0.23589608	2.5941130	21	8 15.3	20.6
424096 2007 EJ_{11}	17.7	X	199.39644	212.80909	23.88007	2.98950	0.2052463	0.25521635	2.4614842	21	—	—
424097 2007 EQ_{12}	17.6	X	191.17196	348.57966	170.72332	5.41377	0.1553630	0.24267815	2.5455537	21	9 26.4	21.5
424098 2007 EY_{12}	16.5	X	225.20374	270.67709	170.82243	26.98808	0.1400334	0.23506734	2.6002066	21	7 21.4	21.0
424099 2007 EU_{16}	17.3	X	122.34386	156.46702	66.23180	3.10926	0.0960677	0.23662968	2.5887488	21	10 7.7	21.0
424100 2007 EO_{19}	18.0	X	275.45142	148.41611	330.32079	1.81797	0.1382315	0.25491563	2.4634197	21	11 17.1	20.7
424101 2007 ER_{23}	17.0	X	204.25505	309.15262	151.48169	7.12534	0.0376460	0.22997888	2.6384209	21	7 31.6	20.7
424102 2007 EB_{27}	14.0	X	348.61554	160.59944	126.75264	20.27686	0.1429211	0.08472256	5.1341673	21	6 23.9	20.3
424103 2007 EO_{27}	17.7	X	205.01921	267.93179	160.77078	6.17422	0.2129186	0.23354118	2.6115223	21	6 13.6	22.2
424104 2007 ES_{43}	18.1	X	38.62380	90.76353	179.97156	21.58920	0.0838307	0.36717973	1.9314505	21	8 30.6	19.9
424105 2007 EQ_{46}	17.4	X	127.86077	210.69176	359.80748	3.92607	0.0628423	0.23574654	2.5952099	21	9 24.3	20.9
424106 2007 EU_{60}	16.8	X	20.33639	134.82324	162.43232	14.87986	0.1182825	0.23240534	2.6200243	21	9 2.4	19.8
424107 2007 EH_{66}	17.6	X	166.05043	188.11635	16.49479	7.61521	0.1359350	0.24220157	2.5488919	21	10 27.7	21.6
424108 2007 EB_{72}	17.9	X	173.13402	186.48761	28.13605	4.62736	0.1815460	0.24403145	2.5361339	21	11 14.6	22.0
424109 2007 EM_{83}	17.2	X	174.40238	65.75513	57.56063	4.46161	0.1483847	0.23240233	2.6200469	21	7 26.9	21.3
424110 2007 EF_{91}	17.0	X	0.52551	324.54411	357.85270	2.78828	0.1311869	0.23212430	2.6221386	21	9 4.8	19.5
424111 2007 EZ_{92}	18.3	X	176.41179	220.58264	309.89375	2.92252	0.0955164	0.24234058	2.5479170	21	9 26.4	22.1
424112 2007 EP_{94}	17.3	X	354.51458	347.09694	1.50457	3.92506	0.0754791	0.23884397	2.5727240	21	9 29.3	20.2
424113 2007 ER_{97}	17.6	X	164.20858	153.02334	43.32007	1.68247	0.1274126	0.24369355	2.5384778	21	10 17.6	21.5
424114 2007 EU_{102}	17.8	X	175.36822	177.70679	31.99545	6.86068	0.1511791	0.24434492	2.5339644	21	11 11.8	21.9
424115 2007 EP_{107}	16.6	X	322.92654	307.49869	28.93455	14.54493	0.0655364	0.22691115	2.6621478	21	7 26.7	20.2
424116 2007 EU_{111}	16.4	X	239.05749	48.72910	19.67540	15.70640	0.1365987	0.23135821	2.6279238	21	7 26.8	20.6
424117 2007 EG_{113}	17.5	X	223.23484	317.57287	139.49432	5.54627	0.1295129	0.23982330	2.5657153	21	8 11.4	21.3
424118 2007 EL_{117}	16.8	X	199.14366	56.97512	38.21884	12.93476	0.1354438	0.22731534	2.6589911	21	7 16.4	21.2
424119 2007 EJ_{119}	17.7	X	162.90733	88.98205	80.48501	2.44256	0.2302016	0.23464138	2.6033525	21	9 12.9	22.3
424120 2007 ET_{119}	17.8	X	234.97983	329.76018	170.85908	5.98599	0.2160397	0.24455657	2.5325022	21	10 11.5	21.6
424121 2007 EB_{138}	17.3	X	187.59723	357.55058	111.88160	4.78328	0.1659659	0.22998002	2.6384122	21	7 20.4	21.5
424122 2007 EP_{144}	17.0	X	283.76091	143.02424	161.00816	8.94519	0.1070494	0.21487828	2.7606268	21	4 8.8	20.9
424123 2007 EL_{147}	17.3	X	6.94068	89.09825	124.98063	3.91821	0.1227807	0.21287354	2.7779319	21	4 4.2	20.4
424124 2007 ER_{150}	16.8	X	266.76270	170.98007	120.43633	4.33205	0.0355580	0.21028240	2.8007054	21	3 12.6	20.7
424125 2007 ES_{172}	16.8	X	194.26557	223.41706	189.76782	12.44712	0.0995850	0.21968907	2.7201765	21	5 18.9	21.1
424126 2007 EY_{175}	16.4	X	308.07857	116.26257	196.74209	14.18873	0.2483689	0.21432816	2.7653487	21	4 29.9	19.9
424127 2007 EL_{178}	16.2	X	172.50956	229.35283	205.23964	14.49340	0.0485631	0.21761354	2.7374452	21	5 20.9	20.2
424128 2007 EY_{187}	16.7	X	107.95487	36.26692	195.92883	10.16694	0.2136169	0.23519794	2.5992439	21	10 12.6	21.0
424129 2007 EY_{205}	16.6	X	21.08861	80.73285	169.34906	12.92871	0.2326587	0.22216957	2.6998916	21	7 5.9	19.2
424130 2007 EG_{221}	16.8	X	15.25374	150.00345	112.75506	4.81555	0.1669213	0.21986751	2.7187045	21	7 7.0	19.3
424131 2007 FZ	16.7	X	180.37592	216.30690	296.07788	16.66938	0.1115562	0.24162808	2.5529234	21	8 31.1	20.9
424132 2007 FZ_{5}	17.1	X	254.00504	303.16596	25.65021	6.73730	0.0772099	0.21486054	2.7607788	21	4 7.3	20.9
424133 2007 FA_{13}	16.1	X	35.62126	349.13752	268.12045	10.03072	0.1501540	0.22494097	2.6776697	21	8 2.5	19.3
424134 2007 FK_{22}	17.1	X	35.87159	255.34300	15.24169	8.97828	0.1124518	0.22703908	2.6611477	21	8 24.4	20.3
424135 2007 FV_{23}	17.1	X	37.82963	237.72890	18.86988	7.50428	0.2440985	0.22219678	2.6996712	21	8 27.8	20.1
424136 2007 FS_{27}	18.0	X	150.56079	190.65897	321.55182	2.17203	0.1322114	0.23230612	2.6207702	21	8 8.2	22.0
424137 2007 FU_{36}	17.2	X	296.46800	201.57481	147.11796	6.83780	0.0355660	0.22390057	2.6859582	21	7 2.7	20.8
424138 2007 FN_{38}	17.4	X	130.14851	143.42851	7.29045	20.26291	0.0595756	0.36768803	1.9296701	21	7 17.0	20.1
424139 2007 FC_{41}	16.4	X	7.34421	103.25886	136.09122	9.70132	0.2343589	0.21258095	2.7804802	21	5 18.0	18.9
424140 2007 FL_{46}	17.4	X	155.62351	152.74968	32.06605	11.14124	0.0352373	0.23355200	2.6114416	21	9 26.5	21.1
424141 2007 GN	17.3	X	98.37188	11.48133	215.97939	1.08717	0.1401796	0.22992869	2.6388048	21	9 19.4	21.2
424142 2007 GQ_{1}	16.8	X	145.54244	30.00631	156.08521	8.70595	0.1092122	0.23168163	2.6254776	21	9 15.6	20.7
424143 2007 GV_{2}	17.1	X	332.43017	248.03590	2.28495	8.41781	0.0771205	0.21341323	2.7732466	21	4 5.4	20.7
424144 2007 GM_{6}	16.7	X	50.46907	264.19461	47.53838	14.20947	0.0291068	0.23688953	2.5868553	21	10 27.9	20.0
424145 2007 GY_{14}	16.8	X	76.58734	315.78612	215.42650	9.56865	0.2315223	0.21904575	2.7254998	21	6 22.9	20.5
424146 2007 GC_{16}	16.4	X	37.65703	116.59002	158.57387	12.45302	0.2259847	0.22560110	2.6724438	21	9 18.3	19.4
424147 2007 GU_{16}	16.7	X	138.32366	164.02392	28.50068	13.78303	0.1629391	0.23143223	2.6273634	21	9 22.6	21.0
424148 2007 GY_{22}	17.1	X	317.37849	241.73900	44.79855	5.45601	0.1342951	0.21047735	2.7989758	21	4 25.7	20.7
424149 2007 GR_{23}	16.5	X	151.54535	333.41989	210.21205	13.25215	0.1778793	0.23274942	2.6174414	21	9 15.9	20.9
424150 2007 GH_{28}	16.7	X	85.65383	13.96881	188.56081	12.49054	0.2182262	0.22342129	2.6897981	21	8 10.5	20.8
424151 2007 GF_{35}	16.8	X	117.25946	294.85416	194.36610	12.95457	0.0212355	0.21578480	2.7528897	21	5 21.5	20.7
424152 2007 GH_{41}	16.8	X	68.96027	145.73367	37.06499	7.53845	0.0299146	0.21503830	2.7592571	21	5 26.8	20.4
424153 2007 GY_{41}	17.8	X	157.73040	293.15742	216.53561	3.28067	0.1111675	0.22743541	2.6580552	21	8 10.0	21.9
424154 2007 GW_{42}	17.2	X	138.58267	126.76360	35.97622	5.66277	0.0984028	0.22597488	2.6694960	21	8 9.4	21.2
424155 2007 GT_{45}	16.6	X	149.74229	302.56337	205.47890	10.90058	0.0203434	0.22283313	2.6945291	21	7 23.6	20.6
424156 2007 GP_{57}	17.6	X	132.14386	25.12238	156.54152	5.59039	0.0946138	0.22852332	2.6496125	21	8 24.2	21.3
424157 2007 GY_{67}	17.8	X	186.56330	269.96714	227.46689	3.64587	0.2085559	0.23188943	2.6239088	21	8 21.0	22.3
424158 2007 GX_{74}	16.6	X	125.94054	67.46409	131.67069	17.47572	0.1665901	0.23033001	2.6357388	21	9 18.9	21.0
424159 2007 HO_{5}	16.9	X	335.36622	57.88143	158.11631	2.93535	0.1199378	0.20396622	2.8582303	21	2 20.7	20.5
424160 2007 HP_{5}	17.1	X	212.99310	137.85804	7.89452	13.24216	0.1076436	0.24151079	2.5537498	21	10 4.3	20.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
424161 2007 HG_{6}	17.2	X	104.04121	159.22101	44.94645	5.25409	0.1558880	0.22762499	2.6565791	21	8 31.2	21.2
424162 2007 HL_{14}	17.3	X	82.59065	210.25025	52.28392	1.40339	0.0940783	0.23067406	2.6331173	21	10 11.7	21.0
424163 2007 HX_{21}	16.7	X	6.51945	263.00030	45.18538	13.47599	0.2276398	0.22155287	2.7048995	21	9 11.4	19.4
424164 2007 HG_{23}	17.2	X	158.43662	154.42908	79.72941	3.88169	0.0836714	0.24067450	2.5596623	21	11 28.3	21.0
424165 2007 HX_{36}	17.3	X	187.85026	166.10645	31.46264	4.69117	0.1789889	0.24153078	2.5536089	21	11 7.1	21.4
424166 2007 HB_{40}	16.6	X	123.85233	139.49179	47.41149	12.82143	0.0962034	0.22862001	2.6488654	21	8 29.1	20.7
424167 2007 HR_{43}	17.0	X	264.19547	264.13115	91.57494	5.00079	0.1112386	0.21487173	2.7606830	21	5 20.1	20.9
424168 2007 HY_{43}	16.9	X	175.17572	217.73259	173.77094	5.83489	0.0866819	0.20588212	2.8404706	21	4 1.4	21.1
424169 2007 HO_{44}	17.6	X	212.15966	137.74591	42.33735	2.68613	0.1620885	0.24535702	2.5269912	21	11 11.2	21.4
424170 2007 HJ_{45}	16.7	X	54.93195	50.50202	210.80931	14.35667	0.1475862	0.22377017	2.6870016	21	9 6.6	20.4
424171 2007 HC_{55}	16.4	X	19.02259	44.50712	183.61403	13.21809	0.1375929	0.21326703	2.7745139	21	5 24.4	19.6
424172 2007 HQ_{57}	16.3	X	88.77241	171.03134	63.16426	14.82959	0.1957142	0.22607638	2.6686969	21	10 2.2	20.6
424173 2007 HY_{57}	17.3	X	164.17908	89.69996	152.23734	5.23089	0.0839733	0.24404596	2.5360334	21	12 14.7	21.0
424174 2007 HX_{58}	16.9	X	142.59545	108.68130	172.06439	13.13214	0.3438943	0.24243728	2.5472395	21	—	—
424175 2007 HD_{74}	17.6	X	129.34611	54.47152	201.84988	7.34353	0.1040253	0.23844673	2.5755805	21	11 26.0	21.5
424176 2007 HA_{77}	16.8	X	108.26942	129.78434	99.54276	4.95284	0.1978691	0.23055937	2.6339904	21	10 10.1	21.0
424177 2007 HZ_{85}	16.0	X	239.01177	308.20609	79.57232	12.90255	0.1361705	0.21426926	2.7658554	21	5 30.4	20.2
424178 2007 HZ_{94}	17.3	X	101.30309	34.32568	211.46133	4.43434	0.1201667	0.22977162	2.6400073	21	10 13.8	21.0
424179 2007 HX_{97}	16.4	X	51.08512	96.66346	153.20921	11.83074	0.1409360	0.22039362	2.7143762	21	8 18.7	19.7
424180 2007 JL	16.8	X	85.59169	108.25293	129.59533	12.34663	0.1482008	0.22499942	2.6772060	21	9 23.6	20.8
424181 2007 JP	16.7	X	102.06697	48.01712	168.30930	13.83024	0.0386216	0.22350749	2.6891065	21	8 26.5	20.4
424182 2007 JD_{3}	16.6	X	55.81107	228.69430	43.49508	13.90261	0.1440574	0.22755649	2.6571122	21	10 2.8	20.2
424183 2007 JD_{8}	17.3	X	17.32002	250.76657	52.45272	4.64961	0.1305160	0.22351240	2.6890671	21	9 9.1	20.3
424184 2007 JX_{8}	16.6	X	176.19353	82.99021	218.02253	3.11972	0.1214382	0.18386825	3.0628910	21	—	—
424185 2007 JB_{11}	17.1	X	137.76117	179.74820	46.31588	6.26232	0.2486358	0.23508218	2.6000971	21	10 30.9	21.7
424186 2007 JU_{19}	16.2	X	73.93053	139.48022	82.98169	15.21573	0.1954417	0.22291095	2.6939019	21	8 29.2	20.2
424187 2007 JT_{21}	16.7	X	154.68921	177.07374	53.77542	12.16067	0.1679374	0.23886347	2.5725839	21	11 18.4	20.9
424188 2007 JN_{22}	15.8	X	221.97892	189.64496	77.92759	19.91368	0.1937347	0.18570586	3.0426521	21	—	—
424189 2007 JD_{24}	17.2	X	70.67545	24.72122	162.13249	14.85853	0.1452240	0.21502460	2.7593743	21	6 23.3	21.1
424190 2007 JF_{28}	16.5	X	50.44595	176.63493	65.06762	8.33863	0.1802646	0.21951381	2.7216241	21	8 17.0	19.9
424191 2007 JF_{40}	16.6	X	65.19278	195.01603	51.25888	14.61871	0.1961398	0.22480495	2.6787497	21	9 20.8	20.5
424192 2007 JB_{43}	17.2	X	141.01580	50.38583	211.50869	11.61564	0.2278781	0.24018971	2.5631053	21	12 13.9	21.7
424193 2007 JR_{45}	16.4	X	224.94423	186.50567	90.29297	11.34673	0.0826404	0.18833157	3.0143057	21	1 6.8	20.9
424194 2007 LJ_{2}	16.1	X	288.84667	212.27138	85.70551	16.24407	0.1255730	0.20418701	2.8561695	21	4 12.5	20.4
424195 2007 LN_{12}	16.7	X	89.67989	74.00549	100.90946	3.85189	0.1163266	0.21672861	2.7448917	21	6 28.1	20.3
424196 2007 LX_{15}	17.0	X	39.51997	53.99126	150.07542	10.01481	0.1793473	0.21191992	2.7862592	21	6 2.3	20.2
424197 2007 LG_{32}	16.3	X	40.01365	169.77217	67.01762	15.41256	0.0757033	0.21619518	2.7494049	21	7 4.6	19.9
424198 2007 LX_{37}	16.6	X	134.23860	269.21655	2.39203	11.37132	0.2575478	0.23483514	2.6019203	21	12 19.3	21.4
424199 2007 MY_{6}	16.8	X	114.90528	111.42491	148.63138	12.74345	0.1752179	0.23531752	2.5983633	21	11 22.1	21.2
424200 Tonicelia	15.7	X	180.89233	56.20996	283.15997	21.29128	0.1833928	0.18030854	3.1030720	21	2 3.7	21.1
424201 2007 OH_{7}	15.3	X	165.71599	100.29436	245.06903	23.84878	0.3708135	0.17335849	3.1854635	21	2 5.1	21.6
424202 2007 PU_{9}	15.9	X	144.38628	25.06208	319.91947	12.35285	0.2467759	0.17266629	3.1939713	21	1 24.5	21.2
424203 2007 PA_{25}	15.9	X	161.28570	63.49535	309.96629	13.05019	0.3084332	0.17963942	3.1107728	21	3 6.9	21.6
424204 2007 PP_{27}	16.1	X	62.64083	117.96285	341.02143	15.22308	0.0657271	0.17355826	3.1830187	21	2 13.1	20.4
424205 2007 PJ_{32}	16.0	X	168.16208	212.50544	151.47837	16.68529	0.2970978	0.17854754	3.1234422	21	3 6.5	21.6
424206 2007 PB_{33}	18.3	X	34.43627	242.87787	134.29283	4.02281	0.3236058	0.29563244	2.2316941	21	—	—
424207 2007 PL_{42}	19.3	X	212.75216	330.77827	319.45902	4.53512	0.1655223	0.46249751	1.6560106	21	—	—
424208 2007 QY	15.3	X	167.78379	40.53814	314.00613	20.75409	0.1098315	0.17852882	3.1236605	21	2 10.6	20.2
424209 2007 QL_{10}	16.4	X	246.39841	22.78922	335.54501	8.92311	0.0474595	0.19368919	2.9584606	21	5 6.8	20.8
424210 2007 QK_{16}	15.7	X	185.67499	5.21810	341.87676	21.76289	0.0826482	0.17891246	3.1191936	21	2 22.6	20.5
424211 2007 QY_{17}	16.0	X	122.50075	67.12486	331.26646	12.78055	0.1407915	0.17522324	3.1628231	21	2 21.3	20.7
424212 2007 RN_{4}	16.2	X	196.55887	107.05736	237.38493	3.83702	0.1077545	0.18199697	3.0838502	21	2 26.0	21.0
424213 2007 RM_{10}	15.9	X	155.50403	34.96828	321.94998	9.35202	0.2166762	0.17511419	3.1641360	21	2 11.9	21.1
424214 2007 RF_{36}	17.7	X	58.88113	32.46045	336.54235	4.34992	0.2609191	0.29851508	2.2173038	21	—	—
424215 2007 RH_{39}	18.6	X	153.06679	337.53293	15.41664	0.60477	0.1885497	0.31259078	2.1502318	21	1 12.3	21.3
424216 2007 RQ_{50}	16.4	X	51.41070	269.37594	221.83130	9.23738	0.0845535	0.17693994	3.1423325	21	3 3.9	20.6
424217 2007 RO_{70}	15.9	X	102.57664	264.98957	154.50704	12.03435	0.1184376	0.17443068	3.1723965	21	2 20.8	20.3
424218 2007 RP_{80}	16.7	X	120.10600	282.43355	343.44649	12.06216	0.2524475	0.22749235	2.6576117	21	11 29.7	21.6
424219 2007 RG_{92}	16.4	X	108.96541	50.73559	2.63433	3.87150	0.1809546	0.17165527	3.2065003	21	3 2.8	21.0
424220 2007 RR_{93}	16.3	X	68.58572	292.93916	180.44880	10.37200	0.0486171	0.17571246	3.1569498	21	3 4.4	20.7
424221 2007 RN_{103}	15.9	X	206.14654	359.90082	357.71237	10.76948	0.2044146	0.18323285	3.0699679	21	3 22.6	21.1
424222 2007 RS_{105}	17.8	X	91.90392	335.14353	9.86281	6.13053	0.1960788	0.30162005	2.2020605	21	—	—
424223 2007 RM_{111}	16.7	X	192.07111	316.39555	14.87781	2.88768	0.2387914	0.17725936	3.1385564	21	2 12.5	22.2
424224 2007 RT_{128}	16.4	X	310.63384	249.67376	16.96618	8.88809	0.0898266	0.18593878	3.0401107	21	3 30.9	20.4
424225 2007 RY_{140}	15.8	X	142.98623	204.13645	174.63447	9.14036	0.2951868	0.17451386	3.1713884	21	3 3.9	21.2
424226 2007 RR_{141}	18.3	X	129.14047	6.64054	351.83683	1.60412	0.1852300	0.31124353	2.1564323	21	—	—
424227 2007 RK_{143}	15.8	X	106.97968	223.79513	176.24141	27.60256	0.2054367	0.17099562	3.2147415	21	2 13.1	20.7
424228 2007 RU_{146}	15.7	X	197.21375	79.61389	255.29120	8.56048	0.1285354	0.17986677	3.1081509	21	2 14.2	20.9
424229 2007 RH_{150}	17.9	X	77.13548	332.25752	10.48601	6.98885	0.2030866	0.30089994	2.2055724	21	—	—
424230 2007 RL_{158}	16.3	X	40.70440	296.03599	1.79299	9.08612	0.1727287	0.21472576	2.7619339	21	10 10.7	19.8
424231 2007 RQ_{164}	16.4	X	90.02023	102.76350	319.19315	6.30864	0.1799813	0.17156951	3.2075688	21	2 16.9	20.6
424232 2007 RX_{169}	16.2	X	309.63998	93.46460	155.16480	10.35600	0.0549757	0.18537203	3.0463040	21	3 12.6	20.4
424233 2007 RA_{170}	16.5	X	91.63116	85.99612	1.41786	10.16013	0.0436778	0.17941041	3.1134193	21	3 4.1	20.8
424234 2007 RG_{170}	16.2	X	189.51681	181.74532	159.48575	12.49553	0.0804272	0.17896542	3.1185782	21	2 16.3	20.9
424235 2007 RR_{181}	16.2	X	210.63729	341.77369	10.06377	7.96798	0.2161975	0.18281977	3.0745905	21	3 20.7	21.4
424236 2007 RQ_{194}	18.4	X	14.86040	301.55681	137.27070	2.26507	0.1902181	0.29963050	2.2117975	21	—	—
424237 2007 RV_{198}	16.3	X	144.21335	42.71379	249.96654	11.76706	0.3074779	0.23577117	2.5950292	21	—	—
424238 2007 RZ_{198}	15.5	X	157.78881	142.15712	221.93633	16.77437	0.2682873	0.17583787	3.1554486	21	2 19.4	21.2
424239 2007 RB_{201}	16.0	X	183.29650	192.56503	191.45188	16.22153	0.0891515	0.18213425	3.0823005	21	4 2.3	20.7
424240 2007 RV_{205}	16.4	X	188.43840	234.78068	133.35149	4.06561	0.1899691	0.18256875	3.0774081	21	3 22.7	21.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
424241 2007 RN_{206}	16.7	X	188.70358	284.60030	79.02529	2.53725	0.1785971	0.18066442	3.0989956	21	3 17.5	21.8
424242 2007 RW_{214}	17.3	X	203.41982	214.99175	343.71539	7.06126	0.1034820	0.29375650	2.2411851	21	12 9.3	20.4
424243 2007 RP_{217}	16.5	X	276.50705	317.63226	357.48355	12.03035	0.0924963	0.18937418	3.0032319	21	4 12.9	20.9
424244 2007 RJ_{233}	15.9	X	125.99472	18.61914	13.21285	12.16065	0.2182497	0.17288727	3.1912491	21	3 2.6	20.9
424245 2007 RA_{253}	15.9	X	202.41696	15.10805	3.96975	11.93645	0.1265005	0.18469086	3.0537897	21	4 12.4	20.9
424246 2007 RD_{255}	16.6	X	341.14797	40.16934	189.29852	9.76391	0.0372121	0.18793902	3.0185016	21	3 30.7	20.6
424247 2007 RC_{257}	15.9	X	186.01288	193.38897	145.85334	15.48239	0.1752591	0.17866706	3.1220491	21	2 14.3	21.2
424248 2007 RK_{268}	16.5	X	236.36551	268.53665	24.81848	9.02779	0.1329247	0.17857834	3.1230830	21	2 8.8	21.6
424249 2007 RN_{275}	15.7	X	135.08173	279.70983	101.09237	21.14531	0.3702215	0.17312687	3.1883040	21	3 14.6	21.6
424250 2007 RW_{283}	16.2	X	36.04617	264.66094	52.83894	8.86553	0.2089179	0.21534211	2.7566613	21	11 6.9	19.6
424251 2007 RK_{286}	15.8	X	107.38819	76.75841	349.96451	14.95410	0.2127548	0.17620046	3.1511182	21	3 18.2	20.3
424252 2007 RP_{287}	15.7	X	111.98387	92.40981	338.97134	11.22201	0.0654085	0.17678410	3.1441789	21	3 9.6	20.1
424253 2007 RG_{299}	18.5	X	337.66238	137.65956	289.43119	2.38451	0.1270157	0.29094329	2.2556090	21	—	—
424254 2007 RL_{299}	16.0	X	171.72293	110.29849	244.54143	8.66714	0.1022248	0.17471183	3.1689922	21	2 13.2	21.1
424255 2007 RV_{302}	16.3	X	182.64536	275.09466	60.68188	2.45237	0.1720069	0.17315940	3.1879048	21	2 9.1	21.5
424256 2007 RM_{316}	16.0	X	195.77598	338.77737	15.88983	10.62924	0.1008379	0.18103129	3.0948073	21	3 13.8	20.9
424257 2007 RH_{320}	17.9	X	127.05290	325.59717	18.97857	2.65231	0.1099082	0.30919767	2.1659341	21	—	—
424258 2007 RD_{322}	16.6	X	68.35563	89.75279	20.96356	16.32191	0.0829061	0.17499972	3.1655158	21	3 12.3	20.9
424259 2007 SY_{1}	16.0	X	47.70575	151.32503	339.56429	16.69222	0.0806095	0.17754514	3.1351876	21	3 1.1	20.0
424260 2007 SQ_{8}	16.2	X	77.77823	26.54118	88.73305	2.86864	0.0473514	0.17724619	3.1387118	21	3 20.9	20.4
424261 2007 SK_{9}	16.5	X	235.38185	181.32903	175.48732	13.72001	0.0668675	0.18708962	3.0276309	21	4 26.9	21.1
424262 2007 ST_{12}	16.2	X	140.81271	17.79124	351.76836	12.00611	0.1171181	0.17105763	3.2139645	21	2 8.3	21.1
424263 2007 SY_{12}	16.4	X	124.07614	202.44961	207.62598	10.24537	0.1056482	0.17424090	3.1746997	21	3 2.0	21.2
424264 2007 SD_{14}	17.6	X	352.58511	159.88475	219.01575	4.76724	0.1626631	0.28589887	2.2820637	21	11 28.6	19.5
424265 2007 SW_{15}	18.0	X	100.66404	333.97189	48.72703	3.23001	0.1321346	0.31025322	2.1610187	21	—	—
424266 2007 TW_{3}	16.6	X	153.42337	70.13198	301.77765	3.74155	0.0509848	0.17286596	3.1915113	21	2 13.4	21.3
424267 2007 TG_{4}	16.1	X	238.74854	122.11151	189.74020	8.98515	0.0691550	0.18008054	3.1056907	21	3 3.2	20.8
424268 2007 TV_{15}	17.9	X	148.40468	341.15830	344.12221	4.75967	0.1931322	0.30877599	2.1679056	21	—	—
424269 2007 TO_{24}	15.8	X	306.49705	325.87847	313.58740	7.79892	0.0512901	0.19152178	2.9807389	21	4 10.8	20.0
424270 2007 TH_{27}	18.5	X	61.81612	229.48082	196.71730	3.16500	0.0514461	0.30743774	2.1741922	21	—	—
424271 2007 TE_{36}	17.2	X	71.10887	39.61224	346.62885	6.73401	0.2707709	0.30123496	2.2039368	21	—	—
424272 2007 TB_{55}	16.3	X	143.32883	224.17389	221.59816	8.69582	0.0918549	0.18062051	3.0994978	21	5 6.2	20.8
424273 2007 TN_{59}	16.4	X	129.93789	33.30222	7.07917	9.62918	0.0776620	0.17727267	3.1383992	21	2 26.9	20.9
424274 2007 TU_{74}	18.4	X	77.99133	26.26415	7.35724	4.07963	0.2240180	0.30377791	2.1916200	21	—	—
424275 2007 TG_{84}	16.2	X	291.05277	262.48282	29.44622	6.95567	0.1936357	0.18779478	3.0200470	21	3 24.1	20.6
424276 2007 TT_{90}	15.7	X	177.81252	312.50643	53.82497	10.20989	0.0795291	0.17433372	3.1735726	21	3 12.3	20.7
424277 2007 TF_{101}	16.3	X	190.59639	149.05468	186.00682	9.32915	0.0764133	0.17383363	3.1796564	21	2 9.4	21.2
424278 2007 TQ_{101}	17.6	X	115.65675	249.74550	36.49720	6.68901	0.1590266	0.29519277	2.2339095	21	12 29.4	21.1
424279 2007 TF_{102}	16.5	X	78.36732	334.27410	197.87971	9.05102	0.0596609	0.18498032	3.0506030	21	6 2.4	20.8
424280 2007 TG_{116}	17.9	X	151.98213	248.25382	96.26481	3.60408	0.2087190	0.31086498	2.1581826	21	1 2.7	20.6
424281 2007 TH_{120}	18.2	X	126.62085	297.68311	56.25466	5.95806	0.2030788	0.30853443	2.1690370	21	—	—
424282 2007 TG_{124}	15.9	X	159.12558	10.96536	41.72838	11.43549	0.0583985	0.17954369	3.1118785	21	4 12.6	20.5
424283 2007 TA_{131}	16.6	X	259.97413	286.81464	12.63382	0.90707	0.1524549	0.18010241	3.1054392	21	3 4.9	21.5
424284 2007 TO_{131}	16.6	X	184.26397	313.61247	46.83277	2.03547	0.1820932	0.17607255	3.1526442	21	3 10.4	21.8
424285 2007 TQ_{132}	16.3	X	268.65155	93.04893	207.28082	7.93014	0.0907370	0.18033546	3.1027632	21	3 19.7	20.9
424286 2007 TP_{135}	16.6	X	163.68721	251.56674	111.58486	2.32620	0.1378672	0.17732567	3.1377738	21	2 21.3	21.5
424287 2007 TU_{142}	17.6	X	6.80211	97.56631	262.29046	5.63398	0.1873738	0.28502348	2.2867339	21	11 29.6	19.7
424288 2007 TH_{144}	15.7	X	161.97552	39.42463	13.20101	10.05039	0.1060267	0.18149860	3.0894928	21	4 14.7	20.6
424289 2007 TT_{159}	17.7	X	36.37026	155.00762	234.87523	3.74571	0.2354620	0.29429917	2.2384292	21	—	—
424290 2007 TC_{161}	15.7	X	224.94489	348.29959	4.54622	10.93970	0.0819377	0.18219635	3.0816001	21	4 5.9	20.5
424291 2007 TJ_{167}	18.2	X	107.51301	113.28741	276.55777	2.06267	0.1682582	0.31000678	2.1621638	21	—	—
424292 2007 TW_{170}	15.0	X	4.14999	181.30244	2.31858	27.67401	0.1132072	0.17650521	3.1474901	21	3 9.3	19.0
424293 2007 TW_{213}	17.9	X	108.33348	2.02565	336.84242	2.42924	0.1761828	0.30106541	2.2047642	21	—	—
424294 2007 TG_{220}	16.3	X	169.55531	334.97396	8.76049	9.38695	0.0722695	0.17410583	3.1763414	21	2 3.2	21.2
424295 2007 TC_{243}	16.5	X	131.71511	127.26497	237.67460	10.40312	0.2228708	0.16891411	3.2410975	21	1 29.5	21.7
424296 2007 TY_{254}	16.0	X	162.16554	349.69474	35.53180	10.40843	0.0653297	0.17584192	3.1554001	21	3 16.4	20.8
424297 2007 TH_{256}	15.7	X	172.27358	332.40657	34.58903	27.02718	0.1560000	0.17477962	3.1681727	21	3 20.2	21.2
424298 2007 TV_{263}	15.7	X	187.80749	25.80636	352.10438	11.98029	0.0633659	0.18099402	3.0952322	21	3 27.9	20.3
424299 2007 TG_{264}	16.5	X	171.63888	90.33429	256.87437	5.97129	0.2019672	0.17396341	3.1780747	21	2 11.1	21.9
424300 2007 TW_{266}	16.5	X	201.40403	138.74828	201.31364	0.55277	0.1558516	0.17726660	3.1384710	21	2 27.7	21.6
424301 2007 TH_{269}	16.8	X	150.47867	234.85409	129.49270	1.87613	0.1902181	0.17120107	3.2121691	21	2 14.9	22.0
424302 2007 TB_{273}	16.0	X	92.22243	82.68680	54.50235	16.12498	0.0323943	0.18126392	3.0921589	21	5 3.9	20.3
424303 2007 TH_{285}	16.4	X	44.94450	91.74486	27.65526	11.27230	0.0287451	0.17254076	3.1955203	21	2 14.2	21.0
424304 2007 TP_{285}	16.3	X	161.55445	24.60861	30.03159	9.92336	0.1175218	0.18202915	3.0834867	21	4 18.8	21.0
424305 2007 TH_{289}	15.8	X	156.45919	50.22593	354.29533	10.04191	0.0653889	0.17963818	3.1107871	21	3 27.3	20.3
424306 2007 TH_{296}	15.9	X	216.92909	112.09781	213.18431	8.97200	0.0971406	0.17823163	3.1271319	21	2 22.4	20.9
424307 2007 TG_{314}	16.2	X	105.71853	35.37539	39.13422	16.59321	0.0769625	0.17329936	3.1861881	21	3 17.4	20.9
424308 2007 TF_{315}	16.4	X	93.81968	58.10141	34.25626	6.31060	0.1332946	0.17084582	3.2166204	21	3 26.5	20.9
424309 2007 TQ_{317}	18.3	X	329.62301	268.38767	212.29931	1.02791	0.0913873	0.29512833	2.2342346	21	—	—
424310 2007 TG_{324}	16.1	X	112.06153	227.30621	249.54984	9.24421	0.0519834	0.18158545	3.0885076	21	5 2.7	20.6
424311 2007 TG_{335}	18.5	X	43.20021	35.79814	26.88725	1.52567	0.1125743	0.29938601	2.2130016	21	—	—
424312 2007 TW_{363}	16.3	X	67.46606	280.90055	231.29767	6.30415	0.0903260	0.17365791	3.1818009	21	4 26.5	20.4
424313 2007 TH_{370}	16.7	X	105.73980	38.55245	289.20186	7.81726	0.2623350	0.29937467	2.2130574	21	—	—
424314 2007 TP_{372}	15.9	X	146.34365	56.93361	339.79370	13.82072	0.2336919	0.17417052	3.1755548	21	3 19.9	21.2
424315 2007 TP_{404}	17.6	X	66.95824	157.77196	229.24754	5.08755	0.1795980	0.29929276	2.2134612	21	—	—
424316 2007 TN_{414}	15.9	X	243.66671	273.10102	95.20211	14.25995	0.1164803	0.18899784	3.0072174	21	5 16.9	20.6
424317 2007 TY_{427}	16.0	X	193.43493	344.39747	44.46889	10.90079	0.0361269	0.17972731	3.1097585	21	4 20.2	20.5
424318 2007 TK_{430}	16.3	X	276.69327	54.57220	265.43519	7.90984	0.1305711	0.18485946	3.0519325	21	4 15.1	21.0
424319 2007 TC_{432}	15.5	X	70.59147	310.11364	178.00615	28.13093	0.1615424	0.18002286	3.1063540	21	4 12.4	19.6
424320 2007 TZ_{432}	15.9	X	213.01352	5.57526	345.32662	8.84255	0.1099364	0.18100573	3.0950987	21	3 21.6	20.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
424321 2007 TM_{446}	18.2	X	9.40874	87.78645	356.88019	5.31410	0.1759508	0.29590642	2.2303163	21	—	—
424322 2007 UR_{12}	15.9	X	194.79645	275.94084	69.62360	11.27721	0.2537601	0.17741876	3.1366762	21	3 7.1	21.6
424323 2007 UG_{15}	16.1	X	252.44460	276.13830	17.32656	14.15024	0.0260543	0.17867524	3.1219537	21	3 7.1	20.7
424324 2007 UM_{15}	16.4	X	77.77779	239.30052	21.62816	10.64413	0.0693454	0.20939781	2.8085875	21	9 29.5	20.3
424325 2007 UC_{33}	16.4	X	177.67025	52.63608	295.74822	14.30166	0.3194125	0.17575930	3.1563889	21	2 18.5	22.3
424326 2007 UL_{38}	16.1	X	271.53889	78.50100	231.02548	7.93407	0.1713504	0.18845784	3.0129591	21	3 22.6	20.8
424327 2007 UW_{43}	16.2	X	198.77022	170.15276	203.49887	9.10175	0.0682616	0.18190835	3.0848518	21	4 5.0	20.9
424328 2007 UG_{57}	16.3	X	302.86389	65.74292	224.18551	7.29990	0.0688925	0.18358383	3.0660538	21	4 21.1	20.5
424329 2007 UJ_{57}	18.2	X	328.56345	293.76289	221.37947	5.91796	0.1387271	0.30145353	2.2028713	21	—	—
424330 2007 UH_{58}	16.0	X	317.67123	219.28423	50.57047	9.02963	0.1302957	0.18235740	3.0797854	21	4 10.4	20.0
424331 2007 UY_{62}	16.3	X	165.32683	120.64674	229.72322	0.72325	0.0714515	0.17165747	3.2064729	21	2 3.4	21.2
424332 2007 UK_{81}	16.7	X	159.56894	210.87413	187.30504	11.01002	0.0950499	0.17835386	3.1257030	21	3 26.7	21.6
424333 2007 UE_{99}	17.9	X	91.69671	223.12688	134.96420	0.07151	0.1816722	0.29903805	2.2147179	21	—	—
424334 2007 UU_{99}	15.7	X	214.22723	293.19046	56.00068	10.41662	0.0564952	0.17460562	3.1702771	21	3 29.3	20.5
424335 2007 UE_{102}	16.2	X	111.87555	238.62748	235.04725	9.60778	0.0565387	0.17638226	3.1489526	21	4 29.9	20.7
424336 2007 UW_{103}	17.8	X	107.83573	150.87250	183.85640	2.74375	0.1572323	0.29684888	2.2255931	21	—	—
424337 2007 UM_{105}	17.6	X	35.58214	138.85294	202.35297	5.11867	0.1889645	0.28412496	2.2915524	21	12 17.5	20.4
424338 2007 UG_{116}	18.1	X	58.56902	267.54365	112.95255	2.18467	0.1750731	0.29573475	2.2311793	21	—	—
424339 2007 UZ_{116}	18.5	X	67.61407	9.67105	41.19627	3.36018	0.0982293	0.30383386	2.1913509	21	—	—
424340 2007 UA_{121}	18.4	X	342.31835	343.70722	45.30445	4.84641	0.2152318	0.28276444	2.2988971	21	11 27.2	19.8
424341 2007 UD_{131}	16.0	X	286.01689	239.78666	66.51550	10.26758	0.0724014	0.18061615	3.0995477	21	4 23.8	20.4
424342 2007 UL_{135}	18.6	X	10.36023	87.18451	36.30588	2.79266	0.1112881	0.30578211	2.1820331	21	—	—
424343 2007 UL_{136}	16.0	X	216.57606	295.45036	92.03673	13.12292	0.1171395	0.18664684	3.0324172	21	5 12.8	20.9
424344 2007 VX_{23}	16.2	X	359.98449	257.94059	58.01823	12.71407	0.0330080	0.19963140	2.8994580	21	8 24.9	20.3
424345 2007 VY_{48}	17.3	X	114.16031	290.54549	5.44988	5.29638	0.1219523	0.29113774	2.2546045	21	—	—
424346 2007 VP_{49}	17.7	X	259.02809	337.46704	282.55944	4.62966	0.1076748	0.31133417	2.1560137	21	—	—
424347 2007 VU_{50}	16.2	X	32.08792	147.11921	32.26838	11.65990	0.0388552	0.17561272	3.1581450	21	4 8.9	20.4
424348 2007 VO_{52}	18.2	X	325.21166	321.34247	68.33092	8.06758	0.1760017	0.27854917	2.3220317	21	10 17.5	20.0
424349 2007 VX_{61}	17.7	X	336.05390	9.99393	39.54031	3.66070	0.1206024	0.28274720	2.2989905	21	12 6.7	19.7
424350 2007 VR_{79}	15.9	X	148.99861	331.29359	55.12088	22.22748	0.0827839	0.17002418	3.2269750	21	3 14.7	21.1
424351 2007 VS_{114}	15.6	X	232.27657	259.50576	77.24520	9.77493	0.0664768	0.17472521	3.1688305	21	4 2.5	20.5
424352 2007 VJ_{120}	16.0	X	225.82021	115.30819	198.28662	11.40882	0.0595876	0.17618409	3.1513134	21	2 19.4	20.9
424353 2007 VX_{127}	16.0	X	75.36442	91.37667	12.93848	8.94989	0.0745537	0.17426231	3.1744397	21	3 9.1	20.2
424354 2007 VA_{129}	16.3	X	248.68273	66.20380	206.60282	7.96828	0.0490894	0.17036424	3.2226793	21	1 29.2	21.2
424355 2007 VU_{145}	17.7	X	112.09384	24.86526	301.58050	3.04935	0.2704147	0.29877145	2.2160352	21	—	—
424356 2007 VE_{146}	15.9	X	26.08643	154.12204	42.27126	9.95515	0.1481610	0.17274039	3.1930578	21	4 26.3	19.4
424357 2007 VM_{151}	16.2	X	344.58468	138.86141	82.71087	11.60375	0.0641397	0.17219727	3.1997684	21	3 31.5	20.6
424358 2007 VQ_{159}	17.7	X	215.43801	215.51018	83.69263	6.13768	0.0638898	0.31065499	2.1591551	21	—	—
424359 2007 VE_{165}	16.7	X	207.69853	259.81047	84.53825	2.44441	0.1737316	0.17457171	3.1706877	21	3 11.4	21.9
424360 2007 VA_{180}	18.4	X	11.79215	289.54894	191.39366	3.87711	0.0975890	0.30430984	2.1890653	21	—	—
424361 2007 VF_{181}	16.2	X	137.04826	214.08460	230.35402	3.76488	0.1471113	0.17796519	3.1302523	21	5 2.8	21.1
424362 2007 VT_{185}	16.1	X	242.29552	81.60028	224.31788	8.58516	0.0551862	0.17482219	3.1676585	21	2 27.9	20.9
424363 2007 VB_{189}	18.0	X	42.93605	141.98127	279.34189	2.19852	0.1968398	0.29785939	2.2205566	21	—	—
424364 2007 VW_{197}	18.1	X	11.03706	146.98327	264.11880	5.07671	0.2028423	0.28540551	2.2846928	21	—	—
424365 2007 VC_{220}	17.8	X	301.56217	37.19166	73.72116	3.48009	0.1509439	0.28358805	2.2944438	21	—	—
424366 2007 VE_{229}	16.3	X	205.95480	300.61916	42.65123	6.00686	0.1579292	0.17472838	3.1687921	21	3 10.3	21.5
424367 2007 VD_{238}	16.1	X	17.96487	111.56933	55.51465	14.05624	0.0512282	0.17221359	3.1995663	21	3 12.0	20.6
424368 2007 VB_{244}	17.4	X	318.62977	204.87245	248.76668	6.00749	0.0671251	0.28724062	2.2749515	21	—	—
424369 2007 VQ_{250}	18.2	X	11.35372	339.60771	89.18744	4.40629	0.1888621	0.29379788	2.2409746	21	—	—
424370 2007 VC_{256}	16.5	X	183.88706	1.14812	11.89782	9.25684	0.0781204	0.17531947	3.1616658	21	3 22.2	21.3
424371 2007 VU_{257}	16.0	X	143.56006	117.11051	315.02434	5.88757	0.1463950	0.17712227	3.1401757	21	4 21.9	21.0
424372 2007 VT_{268}	17.6	X	127.03515	189.55163	175.03793	5.27403	0.1639787	0.30738662	2.1744332	21	—	—
424373 2007 VY_{280}	18.2	X	82.69075	162.24146	240.36422	4.99365	0.0406370	0.30275682	2.1965449	21	—	—
424374 2007 VW_{305}	17.2	X	88.46780	280.75040	93.71905	8.23309	0.1496084	0.29492467	2.2352631	21	—	—
424375 2007 VZ_{311}	15.5	X	310.03637	359.38102	265.89712	10.10627	0.0189576	0.17310369	3.1885886	21	4 3.4	20.2
424376 2007 VQ_{326}	17.6	X	3.40444	103.44629	312.39500	3.58753	0.1672909	0.28862345	2.2676793	21	—	—
424377 2007 WF_{4}	17.3	X	115.57631	74.41642	261.06533	6.05177	0.2897112	0.30122325	2.2039939	21	—	—
424378 2007 WY_{6}	17.7	X	108.71739	320.91840	33.14219	6.44425	0.2195097	0.30259727	2.1973170	21	—	—
424379 2007 WA_{11}	17.9	X	96.09281	205.70534	140.05179	4.43939	0.2180030	0.29883683	2.2157120	21	—	—
424380 2007 WO_{15}	18.1	X	344.03378	255.84675	180.79042	1.55290	0.1624701	0.28806545	2.2706068	21	—	—
424381 2007 WO_{16}	17.7	X	5.09704	318.48598	111.41577	2.14220	0.1308164	0.29117244	2.2544254	21	—	—
424382 2007 WC_{35}	15.9	X	239.56641	285.76777	45.48669	9.71117	0.0713779	0.17485561	3.1672548	21	4 1.8	20.7
424383 2007 WY_{39}	17.8	X	11.96194	250.96080	102.70228	6.40939	0.1981477	0.28369823	2.2938498	21	12 2.3	20.0
424384 2007 WV_{48}	16.3	X	141.17836	217.91218	221.53896	8.42962	0.0720802	0.17609859	3.1523333	21	4 23.9	21.0
424385 2007 WB_{53}	17.9	X	230.76839	83.06902	42.93808	5.65349	0.0638199	0.27498036	2.3420793	21	10 11.3	20.9
424386 2007 WU_{61}	17.6	X	25.83133	62.58296	299.92101	5.68675	0.1460278	0.28553249	2.2840154	21	12 27.2	20.2
424387 2007 XX_{10}	17.9	X	78.84312	90.92143	275.80171	1.76412	0.1838517	0.29649346	2.2273714	21	—	—
424388 2007 XY_{15}	17.5	X	16.79226	91.27539	304.34076	4.39118	0.1583439	0.28728422	2.2747213	21	—	—
424389 2007 XS_{19}	17.6	X	336.17001	135.66370	296.60677	4.17876	0.1395197	0.28608722	2.2810620	21	—	—
424390 2007 XW_{41}	17.7	X	332.52956	187.45512	304.25944	5.13655	0.1266093	0.29141323	2.2531834	21	—	—
424391 2007 XO_{54}	18.0	X	268.08050	353.17316	132.15319	5.49394	0.2008744	0.27248447	2.3563595	21	11 10.8	20.6
424392 2007 YJ	21.9	X	118.94652	199.00396	29.12063	3.30539	0.2799561	0.84981593	1.1038739	21	—	—
424393 2007 YP_{27}	17.5	X	354.16688	351.28576	78.59897	9.04055	0.1653428	0.28508276	2.2864169	21	—	—
424394 2007 YW_{31}	17.7	X	203.14475	89.28447	66.64625	7.24929	0.0783864	0.27044835	2.3681715	21	10 16.2	20.9
424395 2007 YG_{62}	16.0	X	115.17443	97.82806	306.87876	9.17001	0.0611334	0.15803383	3.3882024	21	2 11.9	20.9
424396 2007 YT_{64}	18.3	X	289.34139	128.52426	6.59834	5.81343	0.1001829	0.27917789	2.3185441	21	—	—
424397 2007 YM_{67}	18.4	X	315.86736	138.36839	338.10129	5.57968	0.1012749	0.28364138	2.2941562	21	—	—
424398 2007 YV_{67}	18.4	X	1.14519	125.36262	292.12185	3.71592	0.1425553	0.28322647	2.2963962	21	—	—
424399 2007 YX_{71}	17.6	X	176.49311	319.43611	289.97164	5.83193	0.0929489	0.28034146	2.3121242	21	—	—
424400 2007 YP_{72}	17.5	X	225.70285	103.43417	98.55915	5.87936	0.1763839	0.27681732	2.3317064	21	12 28.2	20.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
424401 2008 AB_{9}	17.9	X	272.93239	255.06588	265.99239	2.79322	0.1850952	0.28103921	2.3082957	21	—	—
424402 2008 AT_{9}	17.3	X	28.89329	359.78688	277.32559	5.01426	0.1531263	0.25532116	2.4608105	21	8 23.7	19.9
424403 2008 AL_{23}	18.3	X	339.49636	3.12753	72.77638	3.13840	0.1787851	0.28011926	2.3133468	21	—	—
424404 2008 AK_{25}	18.1	X	258.56863	132.28894	53.36890	2.45870	0.0809089	0.28149317	2.3058133	21	—	—
424405 2008 AT_{25}	17.1	X	340.83544	260.56104	114.51849	7.26982	0.1282988	0.26743491	2.3859279	21	10 25.5	19.4
424406 2008 AS_{26}	17.9	X	302.23310	78.09479	133.18533	4.37750	0.0785480	0.29499402	2.2349127	21	—	—
424407 2008 AP_{27}	17.0	X	179.39552	32.61443	156.23246	7.72421	0.1755399	0.26297889	2.4128044	21	10 25.2	20.9
424408 2008 AG_{34}	18.0	X	180.29505	157.35118	350.11617	0.92424	0.1107827	0.26025862	2.4295880	21	9 2.9	21.7
424409 2008 AR_{38}	17.9	X	224.00482	289.76366	292.65144	5.52374	0.0524961	0.28370217	2.2938285	21	—	—
424410 2008 AZ_{39}	17.5	X	270.09493	209.66334	334.18875	3.76352	0.1817550	0.28247273	2.3004795	21	—	—
424411 2008 AW_{42}	17.0	X	299.57800	296.06003	118.28385	24.22087	0.2655729	0.27273622	2.3549092	21	9 17.7	19.6
424412 2008 AN_{57}	17.8	X	216.29431	75.77961	121.54526	3.68976	0.0497450	0.27828198	2.3235177	21	12 29.0	20.7
424413 2008 AJ_{60}	16.0	X	183.10022	294.12918	128.22182	9.13623	0.0414614	0.17180613	3.2046230	21	5 21.4	20.8
424414 2008 AK_{67}	18.0	X	340.71135	326.36379	129.82608	6.11110	0.1137750	0.28400074	2.2922205	21	—	—
424415 2008 AN_{77}	17.5	X	219.87371	144.15697	85.17957	5.91342	0.1183487	0.28294662	2.2979102	21	—	—
424416 2008 AH_{80}	17.6	X	11.04687	117.24139	285.67503	6.38667	0.1115346	0.28004699	2.3137447	21	—	—
424417 2008 AQ_{84}	18.4	X	356.84802	78.96197	343.40263	3.68111	0.2050018	0.28315094	2.2968046	21	—	—
424418 2008 AP_{86}	15.7	X	168.31215	186.78614	128.67348	10.91080	0.0709445	0.14849832	3.5317370	21	1 1.7	21.0
424419 2008 AS_{90}	17.9	X	179.86926	31.73053	145.38173	2.29124	0.1399211	0.26592838	2.3949306	21	10 11.1	21.6
424420 2008 AL_{92}	17.7	X	355.44378	31.49290	80.13626	5.59480	0.1078565	0.29095707	2.2555378	21	—	—
424421 2008 AR_{93}	18.0	X	190.61520	61.69304	86.40980	5.41016	0.1215300	0.26294284	2.4130249	21	9 17.4	21.6
424422 2008 AD_{109}	17.7	X	292.79100	53.19906	115.41637	5.62685	0.0546889	0.28807921	2.2705345	21	—	—
424423 2008 AW_{114}	18.2	X	16.65433	97.96522	335.10064	5.26317	0.1505695	0.28667244	2.2779565	21	—	—
424424 2008 AA_{128}	18.1	X	250.05276	267.16048	255.21768	2.76210	0.1074679	0.27671053	2.3323063	21	12 18.9	20.8
424425 2008 BZ_{19}	18.4	X	359.90406	195.09691	253.14721	0.71308	0.1678504	0.28901513	2.2656301	21	—	—
424426 2008 BS_{33}	17.2	X	262.25312	48.81738	157.24314	11.48359	0.1329984	0.28284134	2.2984803	21	—	—
424427 2008 BW_{33}	17.8	X	301.57119	31.25764	128.57229	5.05967	0.1874961	0.28430988	2.2905587	21	—	—
424428 2008 BJ_{35}	17.5	X	331.50518	309.41363	146.50486	6.44611	0.1019566	0.27821359	2.3238985	21	—	—
424429 2008 BG_{38}	17.7	X	210.53934	67.58879	160.63173	6.31418	0.1387384	0.27587281	2.3370255	21	—	—
424430 2008 BF_{46}	18.2	X	282.12519	302.89994	143.79924	2.21752	0.1911242	0.26965882	2.3727918	21	10 8.9	20.5
424431 2008 BW_{46}	17.9	X	320.89903	0.69958	80.29543	2.41667	0.1517129	0.27387574	2.3483726	21	12 23.8	19.6
424432 2008 BH_{47}	17.4	X	243.47772	185.14315	335.55936	13.05795	0.0467326	0.27201153	2.3590900	21	12 15.3	20.6
424433 2008 CU_{5}	17.0	X	249.18403	106.43019	114.39402	7.26958	0.1272144	0.28303373	2.2974387	21	—	—
424434 2008 CB_{7}	17.8	X	255.87611	30.82172	130.98931	5.25533	0.0892981	0.27487501	2.3426777	21	12 29.2	20.5
424435 2008 CE_{11}	18.2	X	321.97914	126.15676	353.32260	5.59732	0.1955381	0.28321188	2.2964751	21	—	—
424436 2008 CG_{15}	18.1	X	303.79913	355.02022	93.59497	2.37391	0.1352400	0.27287851	2.3540905	21	11 30.4	20.2
424437 2008 CP_{15}	17.7	X	265.16073	222.27053	343.69291	8.12204	0.1627622	0.28327111	2.2961550	21	—	—
424438 2008 CU_{15}	17.0	X	228.67377	268.54997	344.54618	7.62905	0.0775523	0.28616890	2.2806279	21	—	—
424439 2008 CE_{18}	18.0	X	265.00005	33.72225	148.79964	4.18021	0.1848928	0.28125637	2.3071073	21	—	—
424440 2008 CR_{23}	17.4	X	325.54585	180.17634	334.14959	4.96961	0.1215364	0.28791108	2.2714184	21	—	—
424441 2008 CL_{24}	17.9	X	301.66749	60.20394	132.18481	5.90071	0.1967820	0.28793375	2.2712991	21	—	—
424442 2008 CQ_{36}	17.9	X	1.17367	132.72669	308.81289	6.17551	0.1544939	0.28390961	2.2927110	21	—	—
424443 2008 CE_{39}	17.8	X	342.49510	13.93778	20.97799	1.61509	0.1698208	0.27210940	2.3585243	21	11 28.6	19.7
424444 2008 CL_{40}	18.2	X	167.75567	275.32942	337.85313	0.70231	0.1553619	0.27392633	2.3480835	21	—	—
424445 2008 CA_{43}	17.7	X	281.41221	349.47870	98.51042	3.74409	0.1854535	0.26789134	2.3832171	21	10 11.6	20.2
424446 2008 CK_{44}	17.6	X	8.52217	19.04881	40.71914	2.82374	0.1636864	0.27988364	2.3146449	21	—	—
424447 2008 CQ_{61}	17.8	X	171.78065	217.02461	52.19933	2.15816	0.2367418	0.27277048	2.3547120	21	—	—
424448 2008 CU_{62}	17.2	X	207.06533	93.15677	148.34130	9.50701	0.1797622	0.27801161	2.3250239	21	—	—
424449 2008 CC_{68}	17.9	X	254.83307	211.87838	359.41250	3.55926	0.1670609	0.28272973	2.2990852	21	—	—
424450 2008 CE_{77}	17.7	X	6.76119	349.31828	100.62813	7.06512	0.1307830	0.28659703	2.2783560	21	—	—
424451 2008 CH_{77}	17.6	X	13.13910	41.70835	109.37961	7.31991	0.0872408	0.29815431	2.2190921	21	1 2.9	19.8
424452 2008 CY_{80}	17.9	X	308.00142	58.77578	78.11891	2.50998	0.1630325	0.28249542	2.3003563	21	—	—
424453 2008 CW_{83}	17.9	X	164.28087	184.98998	16.49875	2.48772	0.1468560	0.26230358	2.4169439	21	10 25.0	21.5
424454 2008 CO_{86}	17.8	X	312.85603	81.73892	75.48788	3.13457	0.0974760	0.28513653	2.2861294	21	—	—
424455 2008 CF_{89}	17.2	X	121.19482	173.05415	120.87004	9.41221	0.2199774	0.26912476	2.3759298	21	—	—
424456 2008 CC_{92}	17.6	X	154.18547	287.97337	10.98935	3.74202	0.0084235	0.28164366	2.3049918	21	—	—
424457 2008 CQ_{92}	18.0	X	159.56871	52.76283	133.17404	7.32172	0.1522873	0.25812372	2.4429661	21	10 3.8	21.9
424458 2008 CO_{98}	18.1	X	221.95334	141.53791	322.78448	0.85304	0.1453280	0.25922859	2.4360196	21	8 18.9	21.6
424459 2008 CD_{100}	17.9	X	323.45014	6.82849	138.46212	4.20701	0.0743527	0.28630456	2.2799074	21	—	—
424460 2008 CC_{121}	18.2	X	309.31658	155.22117	359.75916	9.51250	0.2842541	0.28482360	2.2878036	21	—	—
424461 2008 CD_{127}	17.6	X	183.04262	28.58094	150.02007	5.68307	0.1618380	0.26305184	2.4123583	21	10 15.9	21.3
424462 2008 CM_{131}	18.0	X	310.07207	305.56393	137.81005	1.82609	0.1461565	0.27350839	2.3504749	21	12 4.8	19.8
424463 2008 CY_{131}	17.9	X	247.93045	73.25791	116.43988	2.04686	0.1286948	0.27757453	2.3274640	21	—	—
424464 2008 CF_{138}	17.9	X	304.39087	33.67398	32.70239	3.53936	0.1657684	0.26838024	2.3803219	21	10 24.0	19.7
424465 2008 CV_{138}	16.8	X	332.23863	311.27681	4.38558	3.78926	0.1176926	0.24601726	2.5224680	21	7 2.1	19.5
424466 2008 CW_{139}	17.9	X	315.52921	352.22786	167.13114	3.71509	0.1412120	0.28674491	2.2775726	21	—	—
424467 2008 CP_{150}	18.3	X	310.51134	171.80809	308.85039	3.30693	0.2080767	0.28008998	2.3135080	21	—	—
424468 2008 CX_{153}	17.5	X	46.79668	296.06239	4.41715	9.28119	0.1301883	0.25685917	2.4509776	21	10 21.7	20.6
424469 2008 CS_{158}	18.0	X	282.15694	99.50969	56.82233	2.96929	0.1578669	0.27846437	2.3225030	21	—	—
424470 2008 CD_{168}	17.6	X	208.69981	116.54778	101.80045	7.51756	0.1750978	0.27197862	2.3592803	21	12 28.7	20.9
424471 2008 CJ_{172}	18.0	X	234.65517	160.41602	35.39636	2.63754	0.1706987	0.27775666	2.3264465	21	—	—
424472 2008 CP_{177}	17.9	X	311.34863	28.17105	116.24111	2.66819	0.1406885	0.28396287	2.2924243	21	—	—
424473 2008 CV_{191}	17.9	X	303.17354	293.20197	163.87358	4.60775	0.0906126	0.27335512	2.3513534	21	12 14.6	20.3
424474 2008 CF_{193}	17.5	X	351.38592	79.48078	318.17099	7.27618	0.2729995	0.27520076	2.3408287	21	—	—
424475 2008 CN_{198}	17.9	X	237.92432	102.84398	170.84560	1.87756	0.1784126	0.29059555	2.2574081	21	—	—
424476 2008 CO_{198}	18.1	X	226.33798	14.15102	188.67867	0.89562	0.1245244	0.27553030	2.3389618	21	—	—
424477 2008 CV_{205}	18.2	X	283.61313	282.94669	228.39944	1.66178	0.1344903	0.27917337	2.3185691	21	—	—
424478 2008 CP_{207}	18.1	X	266.58058	346.57416	161.35528	2.43872	0.1352652	0.27496666	2.3421571	21	12 20.0	20.6
424479 2008 CV_{210}	18.2	X	256.60434	62.75761	76.22048	3.44688	0.1244034	0.27036082	2.3686826	21	11 22.5	20.7
424480 2008 CW_{213}	17.1	X	160.21881	252.29322	329.54965	5.67859	0.1090763	0.26294690	2.4130001	21	11 15.1	20.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
424481 2008 DV_3	17.7	X	10.60543	279.90005	122.43579	3.74568	0.1689108	0.27850261	2.3222904	21	—	—
424482 2008 DG_5	19.5	X	46.11095	59.70101	244.02720	5.70678	0.2426103	0.70068057	1.2554208	21	—	—
424483 2008 DM_6	17.4	X	98.62083	314.54105	319.67110	6.49928	0.0941088	0.26726691	2.3869277	21	11 16.8	20.9
424484 2008 DH_{14}	15.7	X	221.36997	132.48865	65.36782	3.58881	0.1041341	0.12604055	3.9396943	21	11 30.6	21.6
424485 2008 DS_{15}	17.6	X	289.31437	52.94787	112.70744	3.16250	0.1515551	0.28199188	2.3030939	21	—	—
424486 2008 DT_{16}	17.7	X	176.34730	185.22959	31.75555	2.83029	0.1395762	0.26624406	2.3930371	21	11 25.7	21.2
424487 2008 DN_{19}	16.8	X	252.95465	210.41401	337.23767	6.48487	0.1505229	0.27493988	2.3423092	21	—	—
424488 2008 DP_{24}	18.2	X	282.76013	140.90066	11.46374	4.41748	0.1755011	0.27882251	2.3205138	21	—	—
424489 2008 DH_{28}	17.9	X	239.16970	101.50664	74.31090	7.62513	0.0977800	0.27619330	2.3352172	21	12 22.9	20.5
424490 2008 DR_{32}	17.8	X	215.28241	129.11810	77.34749	2.38056	0.1312685	0.27227409	2.3575731	21	12 26.7	20.8
424491 2008 DJ_{37}	17.4	X	211.79505	209.30605	1.91716	4.26344	0.1671560	0.27051281	2.3677953	21	12 23.8	20.6
424492 2008 DC_{38}	17.8	X	302.92371	183.68922	325.03188	1.88473	0.1482350	0.27911315	2.3189026	21	—	—
424493 2008 DV_{42}	17.6	X	262.13699	133.27236	130.19934	7.06096	0.0970204	0.29715427	2.2240680	21	1 7.9	20.6
424494 2008 DN_{43}	17.8	X	233.01414	217.65251	6.17606	5.79161	0.1183658	0.28006067	2.3136694	21	—	—
424495 2008 DK_{44}	17.1	X	260.23090	42.66111	129.58977	5.94555	0.1729294	0.27449614	2.3448328	21	—	—
424496 2008 DO_{45}	17.3	X	140.76513	254.18325	16.35386	7.59602	0.0764231	0.26772156	2.3842246	21	12 29.9	20.8
424497 2008 DR_{47}	17.5	X	281.18648	236.28201	13.85275	6.50060	0.1967111	0.29001940	2.2603968	21	1 5.7	21.1
424498 2008 DN_{49}	17.2	X	258.06616	119.89272	89.87913	7.85808	0.1869349	0.28478589	2.2880056	21	—	—
424499 2008 DA_{52}	17.8	X	293.77665	317.66616	203.30164	4.45840	0.1600246	0.27959057	2.3162621	21	—	—
424500 2008 DG_{53}	17.7	X	165.82284	11.91404	205.64723	3.23453	0.1416973	0.26252482	2.4155858	21	11 16.5	21.3
424501 2008 DS_{64}	14.9	X	328.00982	82.20213	359.81711	11.25033	0.0879851	0.12668616	3.9262981	21	11 25.4	20.2
424502 2008 DD_{68}	17.7	X	239.84079	259.36368	276.77783	4.50491	0.0955279	0.27016457	2.3698296	21	12 23.4	20.3
424503 2008 DX_{69}	18.3	X	209.54215	227.33060	267.25319	0.37208	0.1269265	0.26015988	2.4302027	21	9 16.1	21.7
424504 2008 DX_{75}	15.5	X	160.23237	239.15845	17.49343	3.47236	0.0177000	0.12477695	3.9662475	21	12 8.2	21.2
424505 2008 DK_{78}	18.1	X	281.87375	96.89890	42.53037	2.40435	0.1782391	0.27526607	2.3404584	21	12 29.9	20.1
424506 2008 DQ_{80}	15.6	X	296.03156	337.99207	138.59026	5.84096	0.2111736	0.12533396	3.9544876	21	11 11.8	20.7
424507 2008 DZ_{80}	18.1	X	214.65733	12.99846	185.25537	1.01623	0.1283272	0.27051274	2.3677957	21	12 15.4	21.1
424508 2008 DC_{82}	17.8	X	151.27253	183.59238	56.97436	2.09110	0.1736697	0.26255314	2.4154121	21	11 30.1	21.7
424509 2008 EY	17.3	X	138.62723	141.47635	79.46699	5.94885	0.1905258	0.25769103	2.4457000	21	10 28.0	21.3
424510 2008 ED_{11}	17.6	X	302.33125	308.44648	128.79727	7.75870	0.0796676	0.26645982	2.3917451	21	11 16.1	20.3
424511 2008 EU_{13}	17.9	X	258.14590	114.44281	37.55246	5.33025	0.0710576	0.27140979	2.3625756	21	12 20.6	20.7
424512 2008 EH_{22}	17.9	X	288.78810	176.65091	331.82038	1.62667	0.1739180	0.27883068	2.3204685	21	—	—
424513 2008 ES_{23}	17.7	X	318.27625	14.86643	62.37338	7.26030	0.1698030	0.27220648	2.3579635	21	12 11.5	19.6
424514 2008 EV_{26}	16.8	X	191.68814	143.19511	87.16974	5.87355	0.1857301	0.26881153	2.3777752	21	12 24.4	20.2
424515 2008 EV_{32}	17.0	X	319.28596	164.17280	133.87065	8.77792	0.1793113	0.23558482	2.5963975	21	5 8.1	20.1
424516 2008 EZ_{39}	17.8	X	296.31451	336.67145	197.16196	5.46144	0.0965138	0.28172670	2.3045389	21	—	—
424517 2008 EJ_{44}	17.9	X	193.19602	239.07555	19.84265	2.94573	0.1246575	0.27458692	2.3443160	21	—	—
424518 2008 EC_{45}	18.1	X	212.99020	262.14875	305.99721	0.69570	0.1343207	0.26992701	2.3712199	21	12 25.3	21.1
424519 2008 EA_{48}	17.7	X	212.30777	186.36930	20.48806	7.48348	0.1618380	0.26822492	2.3812407	21	12 18.4	21.1
424520 2008 EX_{52}	17.3	X	164.07923	147.96843	98.78432	5.55309	0.1995886	0.26552069	2.3973814	21	12 18.3	21.2
424521 2008 EZ_{53}	17.9	X	228.99209	86.38938	60.80602	7.32169	0.0803278	0.26310567	2.4120293	21	11 2.6	20.9
424522 2008 EB_{69}	16.0	X	16.53417	202.51946	133.82097	32.01685	0.2036457	0.24418251	2.5350878	21	11 18.8	19.7
424523 2008 EW_{70}	17.7	X	314.62283	131.86411	333.99085	24.03002	0.1109228	0.27929503	2.3178958	21	—	—
424524 2008 EJ_{71}	17.5	X	221.98796	185.21675	64.01934	3.36555	0.1786269	0.28054131	2.3110260	21	—	—
424525 2008 EN_{72}	18.1	X	219.54845	100.35581	98.08881	4.06801	0.1520254	0.27190941	2.3596806	21	12 18.5	21.2
424526 2008 EP_{76}	18.1	X	189.57765	59.02956	127.81084	3.07954	0.0915527	0.26205622	2.4184646	21	11 5.9	21.5
424527 2008 EX_{86}	17.7	X	268.97022	335.30080	162.65445	5.40801	0.1668743	0.27102732	2.3647978	21	12 4.7	20.1
424528 2008 EB_{92}	17.7	X	268.21863	92.47150	70.28640	2.51546	0.1238610	0.27692698	2.3310909	21	—	—
424529 2008 EE_{92}	17.7	X	229.92353	152.72721	64.34876	2.83990	0.1781498	0.27696183	2.3308953	21	—	—
424530 2008 EK_{94}	17.9	X	270.44949	11.53719	98.20006	6.16953	0.1766726	0.26912024	2.3759564	21	10 27.5	20.5
424531 2008 EB_{95}	17.9	X	247.70246	71.90052	110.97390	3.86953	0.2017526	0.27218409	2.3580928	21	12 27.4	20.5
424532 2008 EZ_{97}	17.9	X	180.30608	197.23787	68.76904	8.48097	0.4741701	0.26323476	2.4112407	21	—	—
424533 2008 EC_{100}	17.2	X	291.02140	164.49963	54.45367	11.57089	0.1747940	0.28709387	2.2757267	21	—	—
424534 2008 EH_{100}	17.5	X	287.08549	169.38421	293.72316	4.98396	0.1004232	0.27076531	2.3663230	21	11 22.6	19.9
424535 2008 ET_{111}	17.6	X	213.84087	130.13151	81.20172	3.43496	0.1282679	0.27220920	2.3579478	21	12 31.8	20.8
424536 2008 EH_{117}	17.8	X	237.95922	23.08717	162.51271	2.27388	0.1576898	0.27112699	2.3642182	21	12 24.0	20.5
424537 2008 EF_{128}	18.0	X	248.69219	66.24848	81.51319	3.05817	0.1427105	0.26935037	2.3746030	21	11 20.1	20.9
424538 2008 EA_{130}	17.6	X	338.93487	31.45246	109.92250	4.56213	0.1520165	0.28634158	2.2797109	21	—	—
424539 2008 EO_{135}	17.5	X	347.95527	237.25970	151.74704	6.09286	0.0621807	0.26221061	2.4175151	21	11 20.1	20.3
424540 2008 ET_{135}	18.2	X	215.88227	23.64084	136.50485	4.46421	0.1632905	0.26333733	2.4106145	21	10 25.1	21.6
424541 2008 EY_{138}	17.4	X	237.95247	200.20577	336.18515	5.51689	0.1368960	0.26980681	2.3719240	21	12 14.3	20.3
424542 2008 EB_{140}	17.8	X	320.90771	70.18973	19.72051	2.52571	0.1402579	0.27554126	2.3388998	21	—	—
424543 2008 EQ_{141}	18.0	X	291.81590	86.66173	56.88387	3.78034	0.1345596	0.27853934	2.3220863	21	—	—
424544 2008 EH_{148}	18.1	X	340.97534	331.84586	95.45145	3.62520	0.1556259	0.27487847	2.3426580	21	—	—
424545 2008 EN_{148}	17.9	X	297.42347	128.95570	355.33127	9.91552	0.2020024	0.27553470	2.3389369	21	—	—
424546 2008 EP_{150}	18.0	X	274.41232	62.02099	52.83188	3.89894	0.0793059	0.26657437	2.3910599	21	11 21.5	20.8
424547 2008 EB_{152}	18.0	X	247.99978	279.04126	199.66660	6.53432	0.1846254	0.26362127	2.4088833	21	10 2.3	21.3
424548 2008 EP_{153}	17.4	X	127.61051	327.64086	10.45194	7.63756	0.1260162	0.27916920	2.3185923	21	—	—
424549 2008 EX_{160}	17.7	X	170.99367	211.13901	341.27345	0.78564	0.1271159	0.25939104	2.4350024	21	10 20.4	21.4
424550 2008 ER_{161}	15.4	X	235.45339	23.27934	158.59790	3.38708	0.0920916	0.12278442	4.0090414	21	11 28.5	21.2
424551 2008 EY_{163}	17.4	X	8.52024	330.97601	23.69262	3.35803	0.1018740	0.25875824	2.4389707	21	11 5.7	20.0
424552 2008 EW_{167}	17.4	X	175.98970	215.42791	355.69319	6.34568	0.0819144	0.26314003	2.4118193	21	11 19.7	21.0
424553 2008 FQ	18.1	X	269.33853	108.78603	22.36070	1.74005	0.1304337	0.27188280	2.3598346	21	11 30.1	20.7
424554 2008 FC_{16}	17.3	X	232.91688	265.35037	359.71445	7.50766	0.1043875	0.28721764	2.2750729	21	—	—
424555 2008 FP_{20}	17.2	X	68.77401	159.61299	167.78032	11.82970	0.0428948	0.26324726	2.4111643	21	12 16.6	20.6
424556 2008 FZ_{25}	16.7	X	76.11910	194.44246	26.83621	12.35842	0.1636563	0.24084057	2.5584854	21	8 26.6	20.3
424557 2008 FK_{36}	18.0	X	260.68402	196.50940	22.29907	2.86079	0.1603166	0.28224029	2.3017424	21	—	—
424558 2008 FV_{38}	17.6	X	162.78560	130.00207	85.37180	3.79542	0.1382480	0.25931589	2.4354728	21	11 11.0	21.4
424559 2008 FT_{46}	18.1	X	314.07942	309.43447	145.23338	2.40377	0.1297388	0.27328897	2.3517328	21	12 29.9	20.2
424560 2008 FS_{52}	18.2	X	259.39380	88.46502	86.96406	2.48708	0.1197965	0.27322680	2.3520895	21	—	—

ELEMENTS AND OPPOSITION DATES IN 2021

ECLIPTIC AND EQUINOX 2000.0, EPOCH 2021 JULY 5.0 TT

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
424561 2008 FE_{57}	17.8	X	257.99398	92.56779	39.65549	3.10839	0.1402676	0.26455292	2.4032245	21	11 10.9	20.7
424562 2008 FA_{62}	17.8	X	157.83440	159.43256	357.98176	0.48840	0.1455957	0.25232480	2.4802536	21	8 23.4	21.7
424563 2008 FM_{62}	17.2	X	103.65840	128.48454	181.67661	10.98799	0.1562451	0.26929541	2.3749260	21	—	—
424564 2008 FJ_{67}	17.9	X	221.01869	23.84179	155.76194	1.62377	0.1248930	0.26475751	2.4019863	21	11 28.4	21.1
424565 2008 FH_{69}	17.5	X	213.33891	149.56258	75.92214	3.38333	0.1693984	0.26986338	2.3715925	21	—	—
424566 2008 FH_{86}	18.3	X	275.97277	328.40123	149.70935	2.82993	0.1412427	0.26945849	2.3739677	21	11 21.5	20.8
424567 2008 FF_{95}	17.7	X	232.13092	26.88416	148.23637	4.31779	0.1645331	0.26647423	2.3916589	21	12 1.4	20.9
424568 2008 FV_{96}	17.6	X	266.19876	46.62827	125.64243	6.58186	0.2117824	0.27388546	2.3483170	21	—	—
424569 2008 FP_{104}	18.0	X	277.26894	4.78218	179.99066	1.96669	0.1507215	0.27612047	2.3356279	21	—	—
424570 2008 FB_{115}	15.5	X	278.21914	326.59995	170.55474	6.62545	0.2223757	0.12420653	3.9783816	21	11 9.8	21.0
424571 2008 FN_{130}	17.1	X	158.64878	197.71677	72.61718	12.34869	0.2218742	0.26583545	2.3954887	21	—	—
424572 2008 FO_{133}	17.3	X	74.85970	288.33534	13.84479	3.85181	0.0887069	0.26129392	2.4231661	21	11 25.2	20.5
424573 2008 GS	17.6	X	258.93004	135.72225	55.32238	8.09824	0.1637819	0.27661851	2.3328236	21	—	—
424574 2008 GM_{3}	17.2	X	225.11647	201.66998	29.85421	11.46316	0.1463480	0.27376598	2.3490002	21	—	—
424575 2008 GV_{18}	17.9	X	283.51219	65.71411	145.16519	6.14827	0.2072974	0.28273281	2.2990685	21	—	—
424576 2008 GY_{22}	17.8	X	134.11670	173.41076	95.78657	3.65579	0.1437673	0.26300849	2.4126234	21	12 19.9	21.6
424577 2008 GD_{28}	17.8	X	230.10499	83.14269	173.81595	7.26358	0.2147247	0.27862355	2.3216184	21	—	—
424578 2008 GW_{29}	18.0	X	261.08415	83.59622	20.57672	3.07972	0.0508476	0.26016006	2.4302016	21	10 21.1	21.0
424579 2008 GC_{34}	17.6	X	116.50435	110.46342	191.00078	4.79808	0.1159602	0.26707968	2.3880431	21	—	—
424580 2008 GJ_{37}	17.8	X	146.28078	142.97902	128.99745	2.40739	0.1564647	0.26242095	2.4162232	21	—	—
424581 2008 GO_{37}	18.1	X	209.27274	48.18801	144.46059	2.74854	0.1395863	0.26307282	2.4122301	21	11 29.8	21.5
424582 2008 GZ_{46}	17.5	X	267.61569	34.00102	100.82214	7.61023	0.0797650	0.26268896	2.4145795	21	12 8.7	20.3
424583 2008 GK_{54}	17.4	X	262.76447	266.20782	204.66199	7.94334	0.1206187	0.25969316	2.4331135	21	10 22.1	20.4
424584 2008 GY_{57}	17.5	X	206.70649	205.39071	38.46829	2.78564	0.1685766	0.27281880	2.3544340	21	—	—
424585 2008 GF_{58}	17.4	X	172.44280	195.46391	24.70150	6.96369	0.0673505	0.26304538	2.4123978	21	11 28.8	20.8
424586 2008 GB_{65}	17.6	X	121.48769	219.95326	35.72252	7.17324	0.1383328	0.25819583	2.4425112	21	11 19.7	21.4
424587 2008 GP_{66}	17.2	X	229.97064	21.82625	77.69194	6.63677	0.0168651	0.24733457	2.5135036	21	9 9.8	20.5
424588 2008 GT_{68}	17.2	X	31.85340	128.17260	112.54780	5.31966	0.1790052	0.23325455	2.6136612	21	7 9.4	19.7
424589 2008 GV_{71}	17.4	X	181.31378	208.01868	57.64443	3.24335	0.1852424	0.27056602	2.3674849	21	—	—
424590 2008 GO_{85}	17.2	X	58.47785	108.94847	98.11615	8.30669	0.1477518	0.23412033	2.6072137	21	7 2.7	20.3
424591 2008 GD_{99}	17.6	X	6.75364	317.49495	28.70377	6.14210	0.0464220	0.25372070	2.4711481	21	10 15.8	20.4
424592 2008 GM_{100}	17.2	X	65.05739	4.03157	199.93050	12.57440	0.1157164	0.23579636	2.5948444	21	7 1.7	20.7
424593 2008 GF_{101}	17.3	X	208.50943	224.90530	40.93189	6.88226	0.0845386	0.27564981	2.3382858	21	—	—
424594 2008 GL_{106}	17.5	X	211.43890	169.88973	27.18694	7.63554	0.0482665	0.26532636	2.3985519	21	12 19.3	20.7
424595 2008 GM_{118}	17.6	X	162.06576	55.40877	202.47721	1.85170	0.1772477	0.26443321	2.4039497	21	12 30.6	21.5
424596 2008 GM_{123}	17.9	X	215.56656	156.56922	14.27412	6.70100	0.1085415	0.26333265	2.4106431	21	11 10.4	21.3
424597 2008 GO_{136}	17.3	X	285.76229	135.87264	167.03851	6.86124	0.0426962	0.22551038	2.6731604	21	4 17.7	20.9
424598 2008 GS_{144}	16.9	X	54.23325	253.64601	10.79042	12.21650	0.2620865	0.24184281	2.5514120	21	10 4.2	20.0
424599 2008 GR_{145}	17.8	X	249.27121	149.88471	82.48191	4.64353	0.1908800	0.27698112	2.3307871	21	—	—
424600 2008 HT_{12}	17.2	X	141.16551	140.51185	133.25615	7.83289	0.1984407	0.26013893	2.4303332	21	12 30.8	21.4
424601 2008 HY_{13}	17.7	X	227.77858	205.53875	324.11838	1.78983	0.1366738	0.26579981	2.3957028	21	11 21.3	21.0
424602 2008 HU_{20}	18.0	X	226.01687	80.04258	46.45323	1.25955	0.1638516	0.25676070	2.4516041	21	9 20.2	21.6
424603 2008 HS_{27}	18.1	X	233.84660	263.06505	270.17607	0.95190	0.2268999	0.26846029	2.3798487	21	11 21.5	21.4
424604 2008 HV_{39}	17.7	X	114.52023	274.07652	16.87189	2.14214	0.1970063	0.26187864	2.4195578	21	12 29.9	21.7
424605 2008 HH_{41}	16.6	X	233.77638	111.15401	108.37617	22.56267	0.2435760	0.27207780	2.3587069	21	—	—
424606 2008 HZ_{45}	13.7	X	13.54623	46.89976	214.53063	14.74516	0.0755480	0.08259058	5.2221465	21	6 26.8	20.4
424607 2008 HE_{51}	17.7	X	223.35757	117.29438	55.34702	5.21862	0.1487624	0.26243422	2.4161417	21	11 18.2	21.0
424608 2008 HR_{55}	17.5	X	141.85953	171.21039	75.43105	3.35910	0.1672642	0.25622015	2.4550510	21	11 28.7	21.5
424609 2008 HC_{68}	16.6	X	300.53618	224.27126	76.78917	13.82975	0.1651328	0.22405168	2.6847504	21	4 20.8	20.4
424610 2008 HZ_{69}	17.0	X	8.84755	126.48004	147.12172	11.50597	0.1595148	0.23169027	2.6254124	21	7 9.2	19.7
424611 2008 JD	16.6	X	340.59341	132.26017	142.51141	13.34350	0.2355333	0.22744235	2.6580011	21	5 7.5	19.4
424612 2008 JN_{4}	16.8	X	86.23560	199.93618	111.97057	7.52252	0.1124192	0.25579749	2.4577546	21	12 22.9	20.2
424613 2008 JC_{6}	16.6	X	284.49738	201.32868	71.49705	10.26353	0.3067402	0.21370657	2.7707083	21	2 8.6	21.3
424614 2008 JS_{6}	17.9	X	142.97504	171.20286	103.22034	3.31757	0.1939392	0.26092393	2.4254562	21	—	—
424615 2008 JP_{12}	17.0	X	276.88554	240.40363	185.84511	13.56918	0.1185854	0.24681345	2.5170403	21	9 7.0	20.1
424616 2008 JH_{13}	16.5	X	326.92817	243.09590	86.84245	14.09796	0.1225614	0.23606003	2.5929118	21	7 13.2	19.4
424617 2008 JO_{15}	17.3	X	6.09526	189.57299	93.00391	8.33759	0.0304644	0.23566469	2.5958108	21	7 14.1	20.6
424618 2008 JZ_{24}	13.1	X	3.22049	180.44586	86.31942	35.30614	0.1506690	0.08227684	5.2354135	21	6 20.3	19.2
424619 2008 JT_{25}	13.8	X	14.71238	178.57317	87.83110	19.00401	0.1068591	0.08387988	5.1684961	21	7 6.7	20.1
424620 2008 JO_{26}	17.5	X	144.66940	125.66695	110.51403	23.14143	0.0956657	0.40573127	1.8070787	21	12 16.9	19.7
424621 2008 JY_{32}	14.1	X	341.67410	177.05539	123.82649	14.88488	0.0823116	0.08293033	5.2078738	21	7 1.1	20.7
424622 2008 JZ_{36}	18.0	X	233.92967	85.00244	99.47756	2.28570	0.1276813	0.26493432	2.4009175	21	12 20.4	21.1
424623 2008 JA_{37}	16.7	X	87.45966	303.37984	229.15103	13.46145	0.0615065	0.23062947	2.6334567	21	6 12.7	20.3
424624 2008 JL_{37}	17.0	X	97.14491	90.59334	97.41471	14.92714	0.1484115	0.23651807	2.5895631	21	7 31.5	20.7
424625 2008 JF_{38}	17.6	X	139.69693	172.90649	91.08650	4.88847	0.1091505	0.25824485	2.4422021	21	12 18.2	21.2
424626 2008 JH_{39}	17.0	X	142.04220	24.88955	141.95488	15.48764	0.0507145	0.24001530	2.5643468	21	8 13.9	20.7
424627 2008 JH_{40}	17.2	X	160.12578	194.11581	79.80405	7.92793	0.0912545	0.26458017	2.4030595	21	—	—
424628 2008 KD_{5}	16.8	X	21.64998	197.94419	92.26350	15.18065	0.1641387	0.23689555	2.5868115	21	9 9.2	19.9
424629 2008 KV_{5}	17.6	X	264.48870	20.61939	175.22431	6.75243	0.0512200	0.27143338	2.3624387	21	—	—
424630 2008 KN_{12}	17.4	X	158.19029	174.46492	70.67895	3.67441	0.1431055	0.25955785	2.4339590	21	12 12.2	20.9
424631 2008 KJ_{14}	18.0	X	229.92448	272.10622	81.24084	23.56431	0.1204465	0.37021796	1.9208689	21	4 8.3	21.2
424632 2008 KE_{18}	13.4	X	301.43950	243.50529	93.99126	29.27327	0.0239805	0.08387265	5.1687931	21	6 27.4	20.1
424633 2008 KK_{27}	17.5	X	195.58270	83.31963	116.64237	6.04923	0.1382535	0.26165006	2.4209668	21	11 25.1	21.0
424634 2008 KW_{40}	17.8	X	246.91238	78.93188	141.14130	4.87319	0.2176166	0.27419149	2.3465694	21	—	—
424635 2008 KN_{41}	17.9	X	154.25509	34.28235	203.13719	1.23088	0.1363558	0.25800251	2.4437311	21	11 29.3	21.7
424636 2008 LA_{3}	17.6	X	234.62627	11.79734	182.49976	6.09308	0.0619431	0.26569698	2.3963209	21	—	—
424637 2008 LV_{5}	17.7	X	161.97829	150.35690	118.30372	8.18363	0.1762951	0.26382162	2.4076635	21	—	—
424638 2008 LM_{8}	16.6	X	275.79199	250.40249	104.54983	13.74853	0.2884752	0.22631956	2.6667849	21	5 13.3	20.9
424639 2008 LW_{9}	16.9	X	247.99753	184.48043	162.99843	14.61146	0.0953463	0.22186475	2.7023640	21	4 24.9	21.1
424640 2008 LO_{11}	17.1	X	19.59511	26.63005	220.82212	12.53576	0.1282963	0.23031132	2.6358814	21	6 18.9	20.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
424641 2008 LZ_{12}	17.5	X	164.65528	149.43570	133.83673	6.76339	0.2127348	0.26539759	2.3981227	21	—	—
424642 2008 OA	17.0	X	16.47907	171.55192	134.14576	11.52684	0.3127731	0.23127022	2.6285903	21	10 13.4	19.6
424643 2008 OD_2	16.6	X	266.03801	59.27805	291.78863	8.36889	0.2109072	0.21557664	2.7546616	21	4 30.1	21.0
424644 2008 OC_7	15.9	X	316.12477	77.71625	261.53695	13.21593	0.1131212	0.22194731	2.7016938	21	7 6.9	19.1
424645 2008 OV_9	16.2	X	41.71745	336.34869	299.47605	12.63757	0.2373044	0.23242315	2.6198904	21	9 19.4	19.6
424646 2008 OD_{21}	16.4	X	37.47369	286.18197	330.65683	11.06159	0.1412080	0.22389430	2.6860083	21	8 9.0	19.4
424647 2008 PY_6	17.6	X	167.52357	284.96904	145.55982	25.65280	0.1359604	0.36225247	1.9489251	21	5 12.9	20.9
424648 2008 PH_{18}	16.4	X	353.16540	211.59442	149.23508	34.23185	0.2259463	0.23254605	2.6189673	21	11 4.6	19.8
424649 2008 PG_{20}	16.7	X	281.83145	218.48244	102.39333	13.51110	0.2718661	0.21216116	2.7841468	21	4 11.8	21.2
424650 2008 QN_{11}	16.4	X	336.83851	296.84267	349.95180	8.56231	0.1968695	0.21609853	2.7502247	21	5 15.9	19.6
424651 2008 QX_{12}	16.8	X	48.77576	307.27510	335.37709	7.89952	0.1124342	0.23130163	2.6283524	21	9 23.9	20.1
424652 2008 QS_{20}	16.1	X	26.17234	0.33467	270.67303	8.67675	0.1285365	0.22537401	2.6742386	21	8 3.4	19.2
424653 2008 QK_{21}	16.2	X	331.88056	45.60013	265.45862	6.71405	0.1407046	0.21945133	2.7221408	21	6 21.7	19.2
424654 2008 QJ_{23}	16.5	X	77.36310	333.16089	323.44513	12.98145	0.1634729	0.23838871	2.5759985	21	11 23.8	20.6
424655 2008 QB_{33}	16.1	X	351.43202	264.00891	333.19364	11.47018	0.0047807	0.20187547	2.8779308	21	4 18.6	20.2
424656 2008 QM_{36}	17.4	X	196.41150	22.04546	353.82557	4.53297	0.3173092	0.20022629	2.8937121	21	4 3.9	22.8
424657 2008 QU_{39}	16.8	X	291.38356	161.18287	185.92021	6.44234	0.0518434	0.21307759	2.7761581	21	6 21.2	20.6
424658 2008 QF_{41}	16.8	X	180.31259	195.93841	173.19531	7.45360	0.0958797	0.19677044	2.9274949	21	3 10.9	21.2
424659 2008 QU_{41}	17.1	X	302.41157	141.00462	200.58746	5.84032	0.0529315	0.21447351	2.7640991	21	6 28.7	20.8
424660 2008 QA_{47}	16.2	X	258.94797	96.34896	359.10303	22.07321	0.0597605	0.22848087	2.6499407	21	9 28.4	19.7
424661 2008 RS_{17}	17.1	X	257.24814	81.50746	316.69573	5.59007	0.0510946	0.21683095	2.7440279	21	7 14.9	21.0
424662 2008 RL_{25}	17.2	X	314.35050	182.61308	157.68171	5.07046	0.1495610	0.22141692	2.7060066	21	7 1.5	20.4
424663 2008 RS_{40}	16.9	X	143.23308	207.52230	182.83266	10.35754	0.0780486	0.18978971	2.9988467	21	2 23.4	21.4
424664 2008 RA_{43}	17.0	X	249.88232	4.94230	41.45473	2.29491	0.0765704	0.21510126	2.7587187	21	7 12.6	20.9
424665 2008 RC_{44}	17.5	X	104.98445	112.20462	142.48581	1.25188	0.2276158	0.23641155	2.5903409	21	11 7.5	21.7
424666 2008 RH_{44}	16.8	X	208.30422	339.07726	23.73493	2.03355	0.0794430	0.19903626	2.9052348	21	3 31.8	21.2
424667 2008 RM_{44}	16.9	X	55.82372	74.21278	173.42582	12.65841	0.1557224	0.22197935	2.7014338	21	8 24.0	20.3
424668 2008 RN_{49}	16.7	X	47.45717	10.40523	226.39214	6.22728	0.0855335	0.21995057	2.7180201	21	7 16.2	20.1
424669 2008 RZ_{57}	17.1	X	37.51594	243.90143	2.56730	4.57690	0.1045111	0.21744038	2.7388984	21	7 19.4	20.3
424670 2008 RN_{62}	16.9	X	154.57705	51.86900	2.11388	10.74152	0.1135999	0.19749968	2.9202842	21	4 7.4	21.3
424671 2008 RB_{71}	16.6	X	328.76481	172.15128	150.56055	6.31487	0.0286633	0.22247548	2.6974161	21	7 13.8	20.2
424672 2008 RT_{80}	16.3	X	125.99770	185.97616	255.25676	6.14051	0.1734080	0.18486972	3.0518196	21	4 18.3	21.0
424673 2008 RH_{81}	18.9	X	151.96429	186.90828	242.71631	2.92033	0.0708738	0.35689963	1.9683636	21	4 4.8	21.1
424674 2008 RT_{82}	17.3	X	203.79250	175.06498	261.44993	3.19716	0.0539747	0.21592237	2.7517203	21	6 28.4	21.2
424675 2008 RB_{94}	17.2	X	242.04219	5.89551	28.32398	4.65560	0.0811697	0.21161699	2.7889177	21	6 15.6	21.2
424676 2008 RD_{96}	16.9	X	200.07746	72.82211	311.60102	5.40354	0.0976934	0.20442087	2.8539908	21	4 15.3	21.5
424677 2008 RO_{99}	17.1	X	238.06014	185.79484	170.48184	2.20267	0.0773484	0.20371504	2.8605793	21	4 24.9	21.4
424678 2008 RX_{102}	16.6	X	174.52453	126.38086	197.92859	14.85938	0.2282786	0.18500435	3.0503389	21	1 17.9	22.0
424679 2008 RA_{104}	16.5	X	96.20613	289.16454	339.55904	9.20721	0.1162270	0.23361848	2.6109462	21	11 2.7	20.5
424680 2008 RJ_{104}	16.7	X	354.87053	90.32465	205.55345	12.40933	0.0846594	0.21678485	2.7444170	21	7 12.1	20.3
424681 2008 RL_{108}	16.2	X	326.05760	288.61866	12.92183	20.45341	0.1173741	0.21034432	2.8001558	21	5 25.0	20.1
424682 2008 RO_{108}	17.5	X	194.70413	185.09480	214.51679	1.35798	0.1029984	0.20265286	2.8705661	21	5 1.4	21.9
424683 2008 RP_{111}	16.9	X	299.62262	336.74646	35.16412	6.77054	0.0850313	0.21941767	2.7224191	21	8 4.3	20.4
424684 2008 RX_{111}	16.5	X	104.16810	179.20191	219.61566	4.20143	0.2469862	0.18084957	3.0968801	21	2 13.1	21.0
424685 2008 RQ_{113}	17.0	X	244.24715	46.24813	290.47815	1.05705	0.0715165	0.20273008	2.8698372	21	4 6.8	21.1
424686 2008 RP_{114}	16.4	X	119.11569	136.69212	18.06551	15.42217	0.0844711	0.20663395	2.8335765	21	7 5.4	20.8
424687 2008 RZ_{117}	17.2	X	275.08093	315.81852	5.07511	10.35568	0.1394763	0.20431885	2.8549407	21	4 12.3	21.4
424688 2008 RE_{123}	17.2	X	212.10092	177.09309	201.11054	1.51147	0.0806236	0.20380573	2.8597306	21	4 23.3	21.5
424689 2008 RW_{130}	16.7	X	193.62249	312.16472	56.15085	3.92810	0.0990597	0.19665552	2.9286353	21	3 25.2	21.3
424690 2008 RD_{136}	16.3	X	85.64524	294.78659	336.93875	14.77220	0.1411022	0.23471014	2.6028440	21	10 25.6	20.4
424691 2008 RR_{140}	16.5	X	252.28207	52.51954	327.26510	5.47403	0.0846547	0.21291822	2.7775432	21	6 8.3	20.5
424692 2008 RW_{144}	16.8	X	162.36572	328.70219	106.88111	3.27860	0.0441319	0.20318942	2.8655104	21	5 10.6	20.9
424693 2008 SN_9	16.7	X	267.42026	169.79695	181.99722	8.14232	0.2351691	0.21157277	2.7893062	21	5 4.8	21.1
424694 2008 SU_9	16.7	X	257.39291	18.00421	352.58294	13.63841	0.2066440	0.21177555	2.7875254	21	5 14.9	21.4
424695 2008 SU_{19}	17.0	X	281.72329	352.71535	325.18241	9.58314	0.0750498	0.20988087	2.8042764	21	4 22.2	21.1
424696 2008 SM_{26}	16.8	X	127.84024	8.93030	135.46544	4.09053	0.0568795	0.21053413	2.7984725	21	6 27.3	20.7
424697 2008 SS_{36}	16.5	X	123.89946	214.92261	346.30123	8.51975	0.0680314	0.22669756	2.6638197	21	9 7.4	20.2
424698 2008 SL_{37}	17.1	X	210.02942	244.26637	122.54867	1.07472	0.1164890	0.19856054	2.9098733	21	4 6.9	21.5
424699 2008 ST_{37}	16.9	X	60.71979	172.80468	187.39667	14.25036	0.1225833	0.24240446	2.5474694	21	—	—
424700 2008 SP_{38}	16.4	X	36.54048	85.05693	17.24966	26.02385	0.3004011	0.17386449	3.1792801	21	1 28.9	19.9
424701 2008 SY_{43}	17.6	X	163.82392	192.75986	196.19567	1.97138	0.3030140	0.19133057	2.9827245	21	3 29.8	22.9
424702 2008 SH_{45}	16.4	X	137.34700	227.38345	195.14591	16.14175	0.1917241	0.19055283	2.9908350	21	4 10.4	21.1
424703 2008 SC_{50}	17.6	X	44.71886	90.52421	196.37709	2.41274	0.1947838	0.22892871	2.6464836	21	10 9.1	20.8
424704 2008 ST_{50}	16.9	X	135.80630	50.05919	2.15260	10.06038	0.1180164	0.19167043	2.9791976	21	3 19.9	21.2
424705 2008 SE_{66}	16.4	X	173.63607	347.59928	29.05897	10.51853	0.0619462	0.18880232	3.0092932	21	3 16.3	21.0
424706 2008 SR_{68}	16.4	X	152.92682	355.46423	349.36322	11.37310	0.0846386	0.18200248	3.0837880	21	1 17.4	21.1
424707 2008 SM_{86}	16.1	X	187.03473	95.55241	233.40009	8.67418	0.1431081	0.18753562	3.0228287	21	1 29.5	21.1
424708 2008 SV_{92}	16.5	X	152.67313	143.67292	211.56920	14.47948	0.1105752	0.18332319	3.0689591	21	1 24.8	21.5
424709 2008 SH_{100}	16.4	X	107.68306	85.17824	38.80017	15.72544	0.1260958	0.19631217	2.9320490	21	5 14.6	20.7
424710 2008 SR_{103}	16.7	X	146.94583	107.83552	209.63771	8.54790	0.0750520	0.17493153	3.1663383	21	—	—
424711 2008 SX_{108}	17.1	X	42.00502	281.09480	341.47116	10.57029	0.1609997	0.22493547	2.6777134	21	8 27.3	20.1
424712 2008 SQ_{119}	17.1	X	124.98850	21.30379	188.33537	1.45029	0.0081308	0.22056826	2.7129432	21	9 13.4	20.5
424713 2008 SJ_{124}	17.3	X	309.11018	101.74221	217.11118	6.47762	0.1104496	0.20940178	2.8085520	21	5 30.9	20.8
424714 2008 SO_{125}	16.7	X	45.64501	231.77919	209.82205	12.81997	0.0885528	0.17443647	3.1723263	21	—	—
424715 2008 SV_{130}	17.2	X	296.23524	334.73273	344.39165	3.15652	0.0638127	0.20481953	2.8502862	21	5 18.9	21.0
424716 2008 SP_{140}	15.9	X	195.43272	60.86291	282.79785	9.91183	0.0735926	0.19167900	2.9791087	21	2 19.9	20.6
424717 2008 SH_{149}	17.0	X	126.56085	67.27241	208.71411	13.76748	0.1984898	0.24398553	2.5364521	21	12 18.8	21.5
424718 2008 SQ_{157}	16.1	X	178.85295	335.92210	348.24147	8.85685	0.0473816	0.18531998	3.0468744	21	1 16.3	20.6
424719 2008 SR_{161}	16.5	X	124.05960	212.48338	178.29741	9.27957	0.1485849	0.18487204	3.0517941	21	2 12.0	21.1
424720 2008 SY_{180}	17.0	X	317.09419	129.83452	193.92718	4.92522	0.1863894	0.21383415	2.7696061	21	6 7.6	20.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
424721 2008 SB_{184}	16.5	X	119.42612	25.13824	65.80568	4.40297	0.0360661	0.19341212	2.9612853	21	4 8.9	20.6
424722 2008 SS_{193}	16.7	X	210.07745	20.35432	63.60815	7.06229	0.0351273	0.21154589	2.7895425	21	7 18.2	20.7
424723 2008 SP_{195}	15.8	X	73.19095	49.69916	31.48077	16.92296	0.2099003	0.17803640	3.1294175	21	3 1.6	19.9
424724 2008 SW_{196}	16.9	X	323.14280	340.83825	40.52155	6.94293	0.0471062	0.22190708	2.7020203	21	9 26.5	20.3
424725 2008 SM_{206}	16.3	X	277.36146	305.87491	63.33004	8.92967	0.0730023	0.20958287	2.8069339	21	6 28.6	20.1
424726 2008 SP_{208}	16.5	X	177.20899	348.53051	64.41973	11.39357	0.1034663	0.19292313	2.9662871	21	5 3.1	21.1
424727 2008 SZ_{226}	16.4	X	224.54592	280.93667	216.91200	9.06546	0.0118796	0.23058904	2.6337645	21	10 18.3	19.9
424728 2008 SL_{227}	16.3	X	330.27208	1.46591	306.74416	5.45668	0.0462699	0.21396872	2.7684448	21	6 25.3	19.7
424729 2008 SX_{227}	16.9	X	165.49004	314.89660	227.76332	7.53396	0.0817310	0.22769741	2.6560158	21	9 28.1	20.9
424730 2008 SJ_{241}	16.6	X	174.29228	205.70470	161.70924	6.55383	0.2350510	0.19225650	2.9731400	21	3 10.3	21.6
424731 2008 SK_{243}	16.5	X	179.27023	321.68332	58.07264	5.54476	0.2383589	0.19195140	2.9762897	21	3 30.2	21.7
424732 2008 SW_{243}	17.0	X	50.40203	245.60437	22.22980	4.47171	0.1011469	0.22129505	2.7070000	21	9 7.5	20.4
424733 2008 SE_{244}	17.8	X	25.69948	219.87564	12.81827	20.95582	0.0573654	0.36272447	1.9472340	21	5 16.4	19.8
424734 2008 SO_{246}	16.1	X	107.38491	146.99467	201.90801	9.20836	0.0792854	0.17399284	3.1777163	21	—	—
424735 2008 SZ_{250}	17.6	X	209.21500	221.29182	176.22116	1.96695	0.0735238	0.20383965	2.8594133	21	5 15.2	21.9
424736 2008 SE_{251}	17.0	X	246.76606	146.17174	183.31351	1.75465	0.0703966	0.19763630	2.9189382	21	4 1.9	21.3
424737 2008 SH_{254}	16.6	X	98.02499	295.61576	201.61965	8.13853	0.0436549	0.19815587	2.9138337	21	5 10.9	20.6
424738 2008 ST_{270}	16.8	X	52.09448	292.58780	195.66029	3.07173	0.0687074	0.18541584	3.0458241	21	3 1.1	20.7
424739 2008 SR_{271}	16.3	X	127.31004	46.88004	23.33816	11.14504	0.0986865	0.18705499	3.0280045	21	4 1.1	20.7
424740 2008 SH_{281}	16.6	X	157.21970	316.66450	97.28633	2.27410	0.0595471	0.18954020	3.0014779	21	4 9.7	20.9
424741 2008 SP_{281}	16.9	X	124.81579	242.41189	175.50141	2.24285	0.2030594	0.18357056	3.0662016	21	3 25.4	21.7
424742 2008 SO_{286}	16.3	X	158.83489	241.15887	132.49107	11.15802	0.2929537	0.18939553	3.0030063	21	3 11.3	21.6
424743 2008 SC_{299}	15.6	X	264.65522	203.95992	113.80114	7.01089	0.0747263	0.20058121	2.8902975	21	4 10.4	19.8
424744 2008 SR_{300}	16.4	X	23.90136	63.13614	248.46097	14.58509	0.2671218	0.22873255	2.6479965	21	10 18.2	19.4
424745 2008 SX_{300}	16.6	X	277.87459	76.73468	331.34439	8.12987	0.0983513	0.21898917	2.7259693	21	8 17.9	20.1
424746 2008 SN_{302}	16.8	X	90.62931	4.72522	86.67070	2.97237	0.1838688	0.18377559	3.0639205	21	3 26.7	21.0
424747 2008 SC_{305}	16.5	X	197.97909	230.26424	185.50690	15.01428	0.1386170	0.20310058	2.8663459	21	5 26.1	21.3
424748 2008 SN_{305}	16.5	X	191.01925	311.30476	48.84598	14.76236	0.1446036	0.19129222	2.9831231	21	3 19.9	21.5
424749 2008 TX	17.4	X	290.52917	81.50011	204.72593	21.22830	0.0794514	0.35465736	1.9766513	21	3 1.1	20.0
424750 2008 TW_{21}	16.4	X	67.35457	252.56660	32.33576	11.47428	0.1764815	0.22720486	2.6598530	21	10 31.6	20.2
424751 2008 TQ_{29}	17.0	X	332.49015	126.83139	184.18376	4.98006	0.1592464	0.21662469	2.7457695	21	6 20.7	20.0
424752 2008 TW_{33}	17.2	X	189.52703	278.00451	148.46242	2.65803	0.0533619	0.20330457	2.8644283	21	5 30.4	21.4
424753 2008 TA_{35}	16.3	X	53.85239	48.73049	8.71083	2.19398	0.1466868	0.17429961	3.1739868	21	—	—
424754 2008 TG_{38}	16.5	X	164.98790	285.91933	78.96643	9.27622	0.2595019	0.18943027	3.0026390	21	3 5.8	21.8
424755 2008 TO_{42}	16.6	X	84.93176	191.05860	296.97227	8.62961	0.0130405	0.19579898	2.9371701	21	4 2.0	20.9
424756 2008 TZ_{44}	16.6	X	120.43851	57.15570	34.41611	10.27983	0.0827348	0.19097513	2.9864243	21	4 16.5	20.7
424757 2008 TJ_{49}	16.7	X	218.04218	110.69419	204.83183	9.29809	0.0714174	0.19154933	2.9804531	21	2 10.9	21.4
424758 2008 TB_{50}	17.2	X	261.79953	148.57160	181.38147	1.82936	0.0775228	0.20231346	2.8737757	21	4 18.7	21.2
424759 2008 TF_{59}	16.7	X	32.53578	264.87403	194.33534	9.01553	0.1881245	0.17378131	3.1802945	21	—	—
424760 2008 TM_{63}	16.8	X	140.26495	92.99048	20.07429	1.99832	0.0308350	0.20291298	2.8681124	21	5 29.7	20.8
424761 2008 TH_{67}	16.5	X	117.17328	56.70578	40.43412	11.92652	0.0760655	0.19263259	2.9692689	21	4 19.2	20.6
424762 2008 TK_{69}	16.6	X	117.86370	257.49884	192.03175	11.18902	0.1042165	0.19095976	2.9865845	21	4 13.6	20.9
424763 2008 TQ_{75}	17.5	X	150.33373	356.15407	41.25397	2.91437	0.2608596	0.18793763	3.0185165	21	3 28.7	22.5
424764 2008 TB_{77}	16.7	X	344.86665	299.69030	23.16803	5.60600	0.0703289	0.21905135	2.7254534	21	8 8.5	20.0
424765 2008 TC_{78}	17.2	X	331.45521	281.57129	27.73661	5.34174	0.0695237	0.21355852	2.7719887	21	6 26.3	20.6
424766 2008 TC_{80}	16.6	X	271.43183	265.63216	58.56314	2.86084	0.0610220	0.20325614	2.8648833	21	4 25.3	20.7
424767 2008 TG_{81}	16.7	X	282.72843	349.76458	19.26410	6.12954	0.0247610	0.21424283	2.7660828	21	7 14.6	20.5
424768 2008 TN_{85}	16.7	X	82.65273	236.88364	193.90996	4.52817	0.1154274	0.18273751	3.0755131	21	2 5.7	20.7
424769 2008 TQ_{85}	17.1	X	42.49218	124.33402	194.24642	13.49932	0.0494021	0.23041519	2.6350891	21	10 27.4	20.5
424770 2008 TZ_{88}	16.5	X	32.87584	168.49018	252.74415	1.26414	0.0950428	0.16796655	3.2532756	21	—	—
424771 2008 TA_{91}	16.4	X	103.89987	37.95891	44.78993	16.36924	0.2300440	0.18380397	3.0636052	21	4 10.7	21.0
424772 2008 TE_{94}	16.7	X	307.30315	290.30026	39.96525	8.40132	0.1783104	0.21374739	2.7703555	21	5 31.2	20.2
424773 2008 TK_{94}	16.4	X	265.56652	300.38765	58.65477	4.55428	0.1081907	0.20868356	2.8149924	21	5 25.7	20.5
424774 2008 TJ_{95}	17.2	X	202.09828	86.84917	342.83693	4.92559	0.0621718	0.21357961	2.7718062	21	6 17.0	21.2
424775 2008 TQ_{101}	16.9	X	154.81241	195.74570	201.87240	8.84266	0.2068385	0.19052549	2.9911211	21	3 27.2	21.7
424776 2008 TB_{107}	16.7	X	89.36576	254.37049	174.96122	9.12273	0.1318700	0.18326854	3.0695693	21	2 15.1	20.7
424777 2008 TL_{107}	16.8	X	284.54422	96.96718	172.08395	9.57781	0.0423905	0.19359742	2.9593954	21	3 5.6	21.0
424778 2008 TL_{115}	16.3	X	150.60503	207.16822	153.68211	9.91741	0.0926065	0.18270472	3.0758811	21	1 30.7	20.9
424779 2008 TQ_{115}	16.8	X	128.83464	57.49328	351.72087	10.19753	0.1787735	0.18645048	3.0345459	21	3 15.5	21.5
424780 2008 TV_{122}	16.6	X	238.76324	325.26869	68.69743	4.03974	0.0695929	0.20852910	2.8163823	21	6 12.9	20.7
424781 2008 TU_{129}	16.2	X	111.98145	92.55062	8.89372	10.31473	0.0796569	0.19326797	2.9627577	21	4 15.3	20.5
424782 2008 TO_{131}	16.8	X	332.18318	315.09439	344.15349	5.01741	0.2039721	0.21233400	2.7826357	21	5 26.3	19.7
424783 2008 TD_{150}	16.8	X	265.63683	196.57589	162.94293	3.99135	0.1096316	0.20974657	2.8054733	21	5 27.2	20.7
424784 2008 TR_{150}	16.8	X	81.18413	257.33147	173.52121	5.07507	0.1533898	0.18193131	3.0845921	21	2 9.5	20.7
424785 2008 TG_{155}	16.0	X	118.98428	79.54901	353.53186	15.24320	0.0915347	0.18892611	3.0079785	21	3 21.7	20.3
424786 2008 TG_{156}	15.9	X	33.31613	171.25513	288.30062	8.66991	0.0778905	0.17635636	3.1492609	21	1 1.1	19.9
424787 2008 TE_{160}	17.1	X	322.15161	274.65559	46.24175	5.05552	0.0585186	0.21118974	2.7926779	21	6 29.3	20.6
424788 2008 TK_{167}	16.9	X	8.86334	202.18927	92.92179	4.95816	0.0372216	0.21347023	2.7727529	21	8 5.1	20.4
424789 2008 TP_{174}	16.9	X	298.38522	32.68508	268.16448	1.04059	0.0401392	0.20184953	2.8781773	21	5 2.1	20.8
424790 2008 TD_{176}	17.3	X	21.20553	31.24765	226.30022	3.26367	0.1477485	0.21210823	2.7846100	21	7 9.2	20.3
424791 2008 TA_{182}	15.9	X	144.04074	168.15519	194.86029	10.58584	0.0588083	0.18117853	3.0931304	21	1 21.3	20.6
424792 2008 TM_{188}	17.0	X	194.50267	142.29066	237.17125	13.67664	0.1869793	0.19659066	2.9292794	21	4 3.9	22.2
424793 2008 TP_{188}	16.1	X	104.00266	157.95673	240.63877	16.17791	0.2131253	0.18083823	3.0970096	21	2 3.2	20.8
424794 2008 UZ_{13}	16.3	X	127.06460	142.99486	5.39272	11.00398	0.0408995	0.20947277	2.8079174	21	6 30.9	20.5
424795 2008 UE_{28}	16.1	X	62.61416	78.67413	49.76420	9.77903	0.0932635	0.18506214	3.0497038	21	3 24.5	20.1
424796 2008 UM_{29}	16.9	X	316.80240	160.61510	204.01188	4.40347	0.0983591	0.21647978	2.7469947	21	8 14.9	20.1
424797 2008 UC_{32}	16.7	X	166.78957	256.07080	119.39764	2.27243	0.1407724	0.18729495	3.0254176	21	3 9.7	21.4
424798 2008 UW_{34}	16.5	X	137.07664	333.54799	84.65377	4.71186	0.1384713	0.18740646	3.0242174	21	4 2.1	21.1
424799 2008 UY_{41}	16.2	X	132.73877	137.16794	229.73978	8.19339	0.0893729	0.17630787	3.1498382	21	1 18.1	20.9
424800 2008 UJ_{50}	16.7	X	147.46256	208.32291	215.25862	1.18272	0.1026856	0.19262573	2.9693395	21	4 13.1	21.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
424801 2008 UF_{52}	15.9	X	60.17054	287.35752	56.61750	15.10321	0.2038440	0.23501820	2.6005690	21	—	—
424802 2008 UR_{56}	16.9	X	226.60393	13.69767	349.07679	11.72910	0.1343965	0.20568921	2.8422463	21	4 12.2	21.5
424803 2008 UE_{61}	16.2	X	172.71740	79.27012	237.24778	12.63555	0.1039791	0.17618359	3.1513193	21	1 2.8	21.2
424804 2008 UV_{74}	16.8	X	103.97638	102.40624	333.13192	2.66684	0.0909109	0.18128993	3.0918631	21	3 8.9	21.0
424805 2008 UO_{75}	16.1	X	187.20685	112.45826	253.85242	10.94316	0.0707615	0.18587671	3.0407874	21	3 9.8	20.9
424806 2008 UL_{104}	17.0	X	8.92050	241.94982	34.07116	3.22951	0.1093228	0.21277798	2.7787635	21	7 11.8	20.2
424807 2008 UQ_{105}	16.4	X	143.77357	310.00111	79.76931	2.54880	0.1648081	0.18204997	3.0832516	21	3 7.8	21.1
424808 2008 UB_{107}	16.7	X	248.87653	229.57952	131.08699	2.95184	0.0760050	0.20254724	2.8715640	21	5 13.5	20.9
424809 2008 UO_{113}	16.8	X	279.40245	147.41819	253.31572	5.47225	0.0562943	0.21536936	2.7564288	21	8 13.4	20.6
424810 2008 UJ_{115}	16.1	X	262.82602	263.75320	5.83024	8.82402	0.0464892	0.18342166	3.0678607	21	2 13.4	20.6
424811 2008 UJ_{125}	16.3	X	78.89435	108.15265	316.44538	6.33554	0.1783582	0.17401089	3.1774967	21	2 4.7	20.4
424812 2008 UK_{127}	16.9	X	158.90433	150.01405	224.67878	1.35645	0.1798450	0.18281776	3.0746130	21	3 3.3	21.9
424813 2008 UR_{128}	16.7	X	328.70891	330.74003	39.32130	6.90763	0.0439445	0.22464225	2.6800430	21	9 20.2	20.1
424814 2008 UX_{132}	17.0	X	75.82072	29.84959	240.38554	3.19354	0.0808902	0.22195922	2.7015971	21	10 8.9	20.7
424815 2008 UK_{137}	16.5	X	274.36749	7.23312	43.45260	5.98987	0.0459137	0.21556464	2.7547638	21	8 26.9	20.2
424816 2008 UC_{139}	16.3	X	344.47208	338.82906	222.93223	4.13590	0.1107419	0.18411704	3.0601313	21	2 19.4	20.2
424817 2008 UA_{141}	16.7	X	282.33556	322.80132	45.20875	10.85035	0.1380854	0.20999572	2.8032538	21	6 23.1	20.7
424818 2008 UB_{141}	16.2	X	29.38864	249.70170	222.99933	8.11769	0.0706636	0.17408405	3.1766063	21	1 10.3	20.4
424819 2008 UY_{146}	16.4	X	70.51377	38.62077	237.72856	12.84616	0.2269770	0.22357199	2.6885892	21	10 29.6	20.5
424820 2008 UX_{149}	17.1	X	124.50832	132.79122	68.14322	2.92596	0.0138755	0.21793382	2.7347626	21	9 3.5	20.7
424821 2008 UG_{161}	17.0	X	170.39447	192.09460	278.47652	2.89579	0.0624788	0.21031487	2.8004171	21	7 3.9	21.2
424822 2008 UX_{161}	16.1	X	57.16896	219.67531	242.61385	8.19988	0.0732972	0.18055221	3.1002795	21	2 2.9	20.3
424823 2008 UF_{165}	16.9	X	140.44134	304.25347	244.75494	4.14225	0.0683097	0.21795828	2.7345580	21	9 7.7	21.0
424824 2008 UO_{173}	16.5	X	148.74290	26.72157	345.78774	10.38071	0.1745677	0.18564494	3.0433178	21	2 20.9	21.3
424825 2008 UD_{185}	16.3	X	11.96856	246.73668	244.14221	5.63953	0.1219607	0.17047977	3.2212231	21	1 6.9	20.2
424826 2008 UR_{200}	15.9	X	105.96842	152.88738	221.24623	30.53648	0.3401454	0.17658874	3.1464974	21	1 22.0	21.2
424827 2008 UT_{201}	15.8	X	167.32597	350.62299	45.20169	16.83773	0.1484587	0.18942198	3.0027267	21	4 8.3	20.7
424828 2008 UK_{210}	16.9	X	236.90887	2.60565	18.69535	2.08456	0.0819879	0.20354350	2.8621862	21	5 24.0	21.2
424829 2008 US_{217}	16.9	X	189.88191	143.87949	336.69175	3.63070	0.0168086	0.21229579	2.7829696	21	8 10.8	20.7
424830 2008 US_{229}	16.1	X	63.10986	48.04952	42.04824	10.75857	0.0701719	0.17388964	3.1789735	21	2 4.5	20.5
424831 2008 UP_{236}	16.2	X	156.15733	85.43165	246.55819	12.20731	0.1693255	0.17758748	3.1346892	21	1 9.3	21.3
424832 2008 UJ_{240}	16.2	X	99.10375	37.30468	23.06623	12.82409	0.1262659	0.17887297	3.1196526	21	2 23.9	20.7
424833 2008 UH_{241}	15.6	X	188.05990	57.69904	248.38479	18.78622	0.0603482	0.17450433	3.1715038	21	1 2.7	20.6
424834 2008 UJ_{241}	16.7	X	80.65261	306.71908	339.54644	5.81957	0.2116352	0.22806907	2.6531295	21	11 19.3	20.9
424835 2008 UW_{249}	16.5	X	71.61687	218.42984	43.98041	13.32415	0.2328206	0.22393976	2.6856448	21	10 18.6	20.5
424836 2008 UC_{250}	16.7	X	220.65957	276.86898	63.30306	6.73368	0.1137491	0.19324452	2.9629973	21	3 19.7	21.4
424837 2008 UG_{259}	16.6	X	274.62041	240.91321	49.30891	4.36789	0.0438820	0.18920146	3.0050594	21	3 22.5	20.8
424838 2008 UY_{259}	16.9	X	76.85072	301.70657	152.38468	0.38730	0.1401538	0.17851559	3.1238149	21	3 4.2	20.9
424839 2008 UQ_{260}	16.8	X	301.86785	325.76607	96.35942	3.86169	0.0602473	0.22419168	2.6836326	21	10 18.4	20.1
424840 2008 UR_{264}	16.5	X	92.13217	164.68051	229.83239	22.26970	0.1750579	0.17499460	3.1655775	21	1 10.7	21.1
424841 2008 UH_{274}	16.6	X	142.96605	1.42942	32.35854	1.92711	0.1488971	0.18432692	3.0578079	21	3 9.5	21.2
424842 2008 UA_{275}	16.8	X	16.73501	230.90359	40.86108	5.80640	0.1323789	0.20894482	2.8126454	21	7 22.4	20.0
424843 2008 UV_{275}	17.1	X	182.18454	276.92754	258.14931	0.65939	0.0921244	0.22264996	2.6960067	21	10 7.7	21.1
424844 2008 UK_{276}	16.8	X	14.64451	246.26032	39.17334	4.96437	0.0358813	0.21237006	2.7823207	21	7 31.9	20.4
424845 2008 UL_{276}	16.9	X	255.09721	347.69776	343.49034	0.48085	0.1893586	0.20022375	2.8937365	21	4 1.3	21.5
424846 2008 UK_{284}	17.0	X	145.20217	355.03638	49.42834	11.18009	0.1126715	0.18767195	3.0213646	21	3 25.1	21.7
424847 2008 US_{297}	16.4	X	215.64634	261.32661	15.71810	8.83617	0.0559624	0.17439326	3.1728503	21	1 1.3	21.3
424848 2008 UP_{299}	16.7	X	112.48001	88.43472	319.01399	3.71567	0.1545767	0.17998640	3.1067735	21	2 21.8	21.2
424849 2008 UK_{323}	16.6	X	183.36670	17.07562	329.80991	6.99929	0.2705564	0.18781700	3.0198088	21	2 22.4	22.0
424850 2008 UO_{324}	15.9	X	108.27021	162.27488	258.94805	8.77384	0.0662154	0.17867726	3.1219303	21	2 17.9	20.4
424851 2008 UK_{327}	16.3	X	103.90458	295.57148	100.10380	25.54333	0.4532837	0.17775687	3.1326974	21	3 17.9	21.9
424852 2008 UG_{335}	16.6	X	151.74166	173.34199	17.79849	11.28326	0.0829483	0.21833851	2.7313823	21	9 27.5	20.6
424853 2008 UQ_{335}	17.0	X	120.98003	57.49970	41.40307	5.72891	0.1132798	0.19244419	2.9712065	21	4 29.3	21.2
424854 2008 UA_{339}	16.9	X	210.58771	102.92615	258.99055	11.75823	0.1970057	0.19286467	2.9668865	21	3 25.8	22.2
424855 2008 UY_{342}	15.7	X	214.13590	223.71268	59.94700	11.96041	0.0589941	0.17578675	3.1560603	21	1 6.8	20.5
424856 2008 UG_{343}	17.4	X	102.69601	312.08962	85.04855	2.89626	0.2441280	0.17613326	3.1519196	21	2 12.4	21.9
424857 2008 UP_{345}	16.5	X	38.92414	283.03031	251.42355	8.16078	0.0990478	0.18587477	3.0408086	21	4 10.1	20.4
424858 2008 UT_{355}	16.2	X	268.11137	252.66903	99.69115	10.18848	0.1280242	0.20167027	2.8798826	21	5 20.5	20.4
424859 2008 UB_{356}	17.0	X	125.60637	152.44775	274.79801	4.43021	0.1610311	0.18455003	3.0553429	21	3 30.2	21.7
424860 2008 UZ_{357}	16.2	X	262.10801	241.56234	49.88506	11.75339	0.0593839	0.18518746	3.0483278	21	3 12.3	20.8
424861 2008 UH_{358}	16.8	X	146.92157	58.73418	353.33569	5.23902	0.2501980	0.18862339	3.0111960	21	4 9.3	21.9
424862 2008 UJ_{363}	16.2	X	124.39688	218.66209	152.54266	14.47290	0.2187109	0.18021033	3.1041993	21	1 30.1	21.0
424863 2008 UG_{370}	16.8	X	62.24818	42.46007	68.96391	27.58092	0.3343946	0.17503123	3.1651359	21	4 19.0	21.0
424864 2008 VM_{5}	16.2	X	80.36372	84.31700	313.58985	9.96928	0.1888452	0.17449654	3.1715982	21	1 7.4	20.1
424865 2008 VH_{16}	16.3	X	184.11533	304.17911	50.65378	8.42466	0.0935952	0.18687824	3.0299134	21	3 3.1	21.1
424866 2008 VL_{25}	16.5	X	322.17610	135.80342	88.27859	4.06391	0.0156239	0.18783145	3.0196540	21	3 3.8	20.7
424867 2008 VG_{28}	15.7	X	79.68737	182.42023	240.23741	8.49876	0.0779663	0.17580016	3.1558999	21	1 18.6	20.0
424868 2008 VC_{32}	16.6	X	20.04677	115.15868	68.88018	12.17731	0.0429567	0.18807634	3.0170321	21	4 1.5	20.8
424869 2008 VO_{34}	16.4	X	138.83990	325.49784	75.03181	10.39800	0.1150368	0.18388711	3.0626817	21	3 14.8	21.2
424870 2008 VH_{38}	15.5	X	132.00508	106.41142	248.80270	14.16705	0.0649739	0.17172377	3.2056475	21	1 1.8	20.2
424871 2008 VO_{52}	16.8	X	190.75656	3.29980	2.62077	7.50972	0.1087048	0.19220093	2.9737131	21	3 18.8	21.3
424872 2008 VX_{52}	16.0	X	119.37540	120.98820	219.15129	11.96933	0.1046610	0.17172705	3.2056068	21	—	—
424873 2008 VX_{53}	16.1	X	169.88172	114.13192	230.60491	9.81625	0.1117454	0.18341660	3.0679171	21	1 30.4	21.0
424874 2008 VE_{58}	16.6	X	191.50929	265.01887	103.43822	8.70624	0.2852419	0.19256806	2.9699323	21	3 28.5	22.1
424875 2008 VN_{69}	16.6	X	132.65861	52.44278	18.13653	2.54519	0.0851915	0.18772922	3.0207501	21	4 4.4	21.1
424876 2008 VO_{69}	16.2	X	155.17211	326.19500	46.97874	8.64904	0.0744511	0.18175957	3.0865349	21	2 22.5	20.9
424877 2008 VA_{71}	16.2	X	184.09838	45.51931	264.21855	8.11503	0.0559223	0.17414597	3.1758532	21	1 5.0	21.0
424878 2008 VN_{71}	16.0	X	133.92591	81.71892	329.72605	16.80427	0.3415791	0.18129387	3.0918184	21	3 30.4	21.6
424879 2008 VB_{73}	16.6	X	228.13164	301.69252	89.62046	7.13069	0.0814796	0.20098161	2.8864575	21	5 28.3	20.8
424880 2008 VS_{73}	16.7	X	205.74867	309.47440	99.60255	3.13791	0.0660586	0.19829492	2.9124713	21	5 26.5	20.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
424881 2008 VW_{73}	16.5	X	37.95140	352.01288	167.42439	2.27311	0.1564209	0.18225553	3.0809329	21	3 27.8	19.8
424882 2008 VV_{76}	16.2	X	131.54547	187.48649	254.76046	11.44244	0.0942169	0.19048163	2.9915802	21	4 14.8	20.8
424883 2008 VE_{77}	16.1	X	61.50539	11.80887	90.94320	9.49015	0.0349879	0.17862209	3.1225731	21	2 12.1	20.4
424884 2008 VQ_{78}	16.0	X	160.96256	254.15635	125.86637	6.12170	0.1709515	0.18433341	3.0577362	21	3 13.1	20.9
424885 2008 VG_{79}	15.6	X	134.87434	336.08046	56.90153	18.23922	0.2320165	0.18027875	3.1034139	21	3 18.5	20.9
424886 2008 VN_{80}	15.3	X	295.02455	71.22906	111.71754	11.05711	0.0859101	0.15790992	3.3899745	21	—	—
424887 2008 WT_{10}	16.9	X	84.35863	133.56976	322.15209	0.89281	0.1620721	0.18088391	3.0964881	21	3 19.1	20.9
424888 2008 WV_{13}	16.2	X	133.85089	280.87796	109.74155	15.93378	0.2776099	0.18121176	3.0927522	21	3 14.6	21.5
424889 2008 WZ_{14}	15.9	X	74.72663	182.88663	225.32650	27.98076	0.1619921	0.17365854	3.1817932	21	—	—
424890 2008 WC_{25}	16.5	X	148.52262	336.74191	70.34608	7.46037	0.2527376	0.18770417	3.0210189	21	4 9.4	21.6
424891 2008 WQ_{29}	16.3	X	165.52347	98.99561	261.33133	15.09454	0.2823265	0.18343917	3.0676654	21	2 19.5	22.0
424892 2008 WH_{33}	15.9	X	334.98910	16.20815	149.39017	9.67474	0.0396273	0.17553670	3.1590568	21	1 5.0	20.4
424893 2008 WN_{33}	16.2	X	69.38761	200.03794	241.43538	4.29439	0.1540697	0.17722752	3.1389323	21	2 5.8	20.1
424894 2008 WO_{37}	16.9	X	72.34436	36.07154	72.65530	2.54431	0.1434506	0.17960097	3.1112167	21	3 17.7	20.8
424895 2008 WH_{38}	16.6	X	201.28326	22.01359	69.18545	7.17995	0.0227925	0.20544862	2.8444648	21	7 17.3	20.6
424896 2008 WT_{38}	16.3	X	43.04857	236.43944	232.25486	9.82542	0.0357361	0.17544828	3.1601181	21	1 21.7	20.8
424897 2008 WZ_{39}	17.4	X	129.24988	249.08791	128.71068	1.26384	0.1901405	0.17820708	3.1274190	21	2 9.8	22.1
424898 2008 WP_{43}	16.5	X	108.10053	351.66451	62.34327	10.98784	0.1110198	0.17751000	3.1356013	21	2 24.8	21.1
424899 2008 WO_{46}	16.7	X	106.72722	345.85721	51.02259	1.84849	0.1785350	0.17480709	3.1678408	21	2 7.8	21.1
424900 2008 WN_{50}	16.9	X	169.49711	287.37594	85.76439	1.99769	0.1092115	0.18628145	3.0363813	21	3 7.9	21.5
424901 2008 WB_{51}	16.5	X	65.53757	85.17745	60.64001	9.66586	0.0351400	0.18981671	2.9985624	21	4 11.5	20.6
424902 2008 WF_{55}	17.1	X	186.83053	275.84520	92.45795	2.89138	0.1349513	0.18823332	3.0153545	21	3 19.9	21.9
424903 2008 WD_{59}	16.2	X	75.42816	207.87610	241.92152	9.38249	0.1911032	0.17758990	3.1346607	21	2 27.6	20.3
424904 2008 WG_{62}	15.8	X	141.32908	306.09597	75.43243	17.80736	0.2568245	0.18115330	3.0934176	21	3 11.7	21.2
424905 2008 WX_{62}	16.1	X	92.34220	187.22422	261.85922	17.34302	0.1584847	0.17957966	3.1114628	21	3 12.3	20.8
424906 2008 WE_{66}	16.1	X	198.77444	292.90936	57.38977	9.75565	0.1183632	0.18934383	3.0035529	21	3 12.9	21.0
424907 2008 WX_{67}	16.1	X	48.42510	71.00912	73.40042	17.39690	0.1886387	0.17867398	3.1219684	21	4 9.3	20.0
424908 2008 WZ_{72}	16.5	X	244.28039	296.90559	26.37370	2.95457	0.0827702	0.18721682	3.0262593	21	3 23.2	21.0
424909 2008 WL_{77}	16.4	X	175.70467	292.14698	81.96796	10.57153	0.1052256	0.18540646	3.0459269	21	3 19.7	21.3
424910 2008 WK_{82}	16.3	X	90.27923	351.30454	126.05492	5.98964	0.1332191	0.18410973	3.0602123	21	4 21.6	20.5
424911 2008 WF_{84}	16.3	X	184.87287	112.43860	272.74329	9.63284	0.1329136	0.18792827	3.0186167	21	4 1.1	21.3
424912 2008 WO_{86}	16.3	X	70.55061	269.18821	246.41082	7.67664	0.1263987	0.19232175	2.9724675	21	5 8.7	20.1
424913 2008 WP_{86}	16.5	X	213.21865	3.60732	4.69151	8.26011	0.2107034	0.20295839	2.8676846	21	4 7.4	21.3
424914 2008 WC_{94}	16.2	X	303.86603	195.66492	72.74078	12.30549	0.0867384	0.18925417	3.0045014	21	3 30.4	20.5
424915 2008 WB_{96}	16.5	X	100.56583	231.97150	184.64437	14.15228	0.2828411	0.17622038	3.1508808	21	3 7.9	21.1
424916 2008 WZ_{100}	15.6	X	124.75796	354.68711	90.71927	17.58398	0.0615231	0.18319792	3.0703581	21	4 20.1	20.3
424917 2008 WT_{129}	17.1	X	50.49651	59.21369	73.33747	11.12720	0.2135223	0.17678868	3.1441245	21	3 28.1	20.8
424918 2008 WA_{130}	15.8	X	65.87884	223.94019	247.48441	15.04692	0.0781444	0.17703170	3.1412465	21	2 23.3	20.3
424919 2008 WH_{138}	15.7	X	97.22816	293.11790	112.22599	14.13737	0.2468510	0.17151551	3.2082420	21	2 18.6	20.3
424920 2008 XP_{21}	16.0	X	162.78664	140.65043	261.70763	16.15290	0.1146726	0.18346180	3.0674132	21	3 28.9	21.1
424921 2008 XS_{22}	16.4	X	346.07533	285.86472	21.20415	7.21047	0.0932646	0.20833723	2.8181112	21	7 17.3	19.8
424922 2008 XR_{23}	16.5	X	51.73664	261.05524	279.63560	8.73675	0.1658618	0.18945099	3.0024202	21	5 18.4	20.1
424923 2008 XR_{44}	15.2	X	231.69416	238.27173	100.32849	21.58397	0.0212629	0.18355173	3.0664112	21	4 12.9	20.0
424924 2008 XK_{51}	15.9	X	47.74399	66.57887	39.58450	16.09175	0.2257373	0.17294576	3.1905296	21	2 20.1	19.6
424925 2008 YP_{4}	16.3	X	116.63958	32.93813	123.91079	12.12726	0.0762913	0.18862229	3.0112077	21	7 2.6	20.8
424926 2008 YM_{5}	16.1	X	168.34696	348.93788	86.08744	8.81615	0.1048897	0.18999042	2.9967344	21	5 20.8	20.7
424927 2008 YJ_{6}	16.0	X	225.74403	252.14709	132.77763	10.06505	0.0660078	0.19671997	2.9279956	21	5 21.0	20.5
424928 2008 YG_{12}	16.7	X	115.23706	350.45534	78.77121	2.29244	0.1323376	0.18110839	3.0939290	21	3 21.7	21.1
424929 2008 YV_{13}	15.8	X	11.38482	275.48217	247.82942	8.86907	0.0392059	0.17827203	3.1266595	21	2 13.9	20.3
424930 2008 YA_{20}	16.3	X	210.68192	315.30515	115.34139	10.59365	0.0872153	0.19459123	2.9493108	21	6 27.3	20.7
424931 2008 YQ_{22}	15.6	X	94.15416	143.36937	300.45907	18.08793	0.1346702	0.17131711	3.2107185	21	3 5.7	20.4
424932 2008 YP_{38}	16.3	X	47.96947	45.18627	110.34698	7.11061	0.1530811	0.17518975	3.1632263	21	4 13.3	20.2
424933 2008 YZ_{50}	16.4	X	87.28011	15.45721	77.43250	2.91221	0.1773307	0.17302777	3.1895214	21	3 24.6	20.7
424934 2008 YP_{59}	16.9	X	55.97292	95.61299	52.88769	1.95517	0.1338510	0.17670745	3.1450881	21	4 11.3	20.8
424935 2008 YU_{63}	16.1	X	72.54480	3.46725	122.67509	27.87793	0.1185145	0.17511083	3.1641765	21	4 16.7	20.9
424936 2008 YH_{65}	17.7	X	19.13269	336.86038	85.34082	6.68547	0.1258495	0.30923507	2.1657595	21	—	—
424937 2008 YM_{77}	15.9	X	133.47400	273.37893	122.71447	16.76454	0.2669279	0.17674080	3.1446924	21	3 19.6	21.3
424938 2008 YN_{80}	16.1	X	65.00439	60.54111	88.12038	5.65692	0.0788419	0.17843611	3.1247424	21	4 19.7	20.2
424939 2008 YL_{85}	16.1	X	217.85429	237.58738	76.57068	10.08817	0.0466604	0.17891864	3.1191217	21	2 18.4	20.8
424940 2008 YD_{91}	16.2	X	106.84516	321.25149	108.52574	7.64207	0.2066749	0.17582940	3.1555499	21	3 25.7	20.9
424941 2008 YV_{102}	16.0	X	111.12809	316.50879	119.86123	10.70467	0.0800469	0.17463427	3.1699304	21	3 22.6	20.6
424942 2008 YC_{105}	15.6	X	224.72628	37.13160	293.82458	13.89029	0.0751614	0.17543439	3.1602848	21	3 6.2	20.7
424943 2008 YH_{106}	16.6	X	28.05149	51.14367	65.95614	2.19029	0.2476986	0.16310839	3.3175579	21	1 18.9	19.7
424944 2008 YN_{106}	16.0	X	300.07085	324.59883	308.67854	25.18367	0.1371440	0.17508128	3.1645325	21	3 6.2	21.0
424945 2008 YT_{108}	16.5	X	30.09254	74.83328	90.72111	2.47499	0.1305639	0.17123559	3.2117373	21	3 23.5	20.3
424946 2008 YJ_{118}	16.6	X	261.57597	37.17664	313.81871	12.93905	0.0625673	0.18597980	3.0396637	21	5 14.1	21.3
424947 2008 YQ_{118}	15.8	X	41.57133	313.18593	115.04172	7.12094	0.0972011	0.15642192	3.4114393	21	—	—
424948 2008 YM_{124}	16.2	X	140.12670	82.60080	296.97335	17.84084	0.1693316	0.17212146	3.2007078	21	2 15.2	21.3
424949 2008 YW_{125}	16.3	X	136.39094	314.75985	107.32930	6.05473	0.1384144	0.17874300	3.1211647	21	4 7.5	21.1
424950 2008 YA_{129}	16.0	X	78.18683	129.10323	319.29799	5.81601	0.0980541	0.17149184	3.2085372	21	2 21.7	20.3
424951 2008 YU_{136}	15.9	X	227.57538	192.26455	94.89251	14.04978	0.0296238	0.16933943	3.2356682	21	1 28.0	20.7
424952 2008 YY_{149}	15.8	X	326.72381	128.12461	122.14729	11.73492	0.0209238	0.17907690	3.1172838	21	4 15.1	20.3
424953 2008 YG_{150}	18.1	X	223.68344	96.99007	104.90113	3.62370	0.0944516	0.30152742	2.2025115	21	—	—
424954 2008 YK_{150}	15.7	X	190.37553	269.29588	120.77568	20.01021	0.0279638	0.17914159	3.1165332	21	4 25.4	20.6
424955 2008 YR_{158}	15.8	X	57.03948	292.82018	137.02098	12.47171	0.0545498	0.15905128	3.3737374	21	1 1.1	20.5
424956 2008 YK_{160}	16.2	X	6.91489	265.53163	326.66034	12.12539	0.2300736	0.17122338	3.2118900	21	5 1.8	19.7
424957 2008 YE_{162}	16.5	X	11.26772	50.14806	145.73533	1.40372	0.1127604	0.17652439	3.1472620	21	3 29.6	20.2
424958 2008 YL_{163}	16.1	X	70.46163	11.00306	95.17972	6.60500	0.1617688	0.17221843	3.1995063	21	3 17.6	20.2
424959 2008 YG_{165}	15.8	X	66.19282	194.61165	306.69091	25.80266	0.0382177	0.17661987	3.1461277	21	3 19.4	20.7
424960 2008 YE_{169}	16.3	X	11.72947	44.33196	131.19475	7.35850	0.1019129	0.17061994	3.2194587	21	3 6.9	20.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
424961 2008 YB_{170}	16.4	X	105.75126	90.61677	26.57747	10.42069	0.2630868	0.18168485	3.0873811	21	5 21.8	21.3
424962 2008 YO_{170}	15.8	X	60.35450	15.44682	127.56773	22.46625	0.0239761	0.17525036	3.1624968	21	4 6.1	20.6
424963 2009 AW_{3}	16.5	X	5.92530	174.47034	22.46014	3.96700	0.0910747	0.17608369	3.1525112	21	3 23.5	20.4
424964 2009 AG_{5}	16.0	X	116.18257	318.68735	100.52376	18.04713	0.2135582	0.17653293	3.1471605	21	3 28.9	21.1
424965 2009 AM_{15}	18.8	X	166.49043	131.48736	166.17836	28.87043	0.4870686	1.34566365	0.8125405	21	—	—
424966 2009 AH_{39}	15.8	X	303.04378	329.34152	288.96387	7.95231	0.0337071	0.17522256	3.1628314	21	3 15.2	20.4
424967 2009 AA_{40}	16.0	X	97.45920	153.63241	291.53833	9.42586	0.1057844	0.17304232	3.1893425	21	3 11.4	20.6
424968 2009 BN_{1}	15.9	X	137.55979	127.43779	293.04932	26.31731	0.1829114	0.18005575	3.1059757	21	3 23.3	21.4
424969 2009 BT_{5}	20.6	X	2.31722	73.26837	130.50679	21.21647	0.1292188	0.64719066	1.3236746	21	—	—
424970 2009 BQ_{8}	15.7	X	93.31717	163.21701	295.45597	16.16168	0.1855532	0.17554352	3.1589750	21	3 29.6	20.5
424971 2009 BY_{15}	15.7	X	58.30236	353.77113	126.49147	11.93472	0.0214468	0.17179942	3.2047065	21	3 1.1	20.2
424972 2009 BV_{20}	16.1	X	312.73512	121.27967	117.83060	19.67771	0.1092720	0.17151019	3.2083083	21	3 2.6	20.7
424973 2009 BD_{45}	16.4	X	36.20121	57.75319	142.11897	7.68672	0.0555199	0.17697566	3.1419097	21	5 12.5	20.6
424974 2009 BA_{49}	16.4	X	0.43561	81.57217	126.24782	5.54483	0.0878600	0.17327805	3.1864494	21	3 31.3	20.4
424975 2009 BQ_{55}	16.4	X	93.29553	152.05792	319.54427	15.44313	0.2691405	0.17648926	3.1476796	21	4 28.3	21.3
424976 2009 BD_{73}	16.8	X	107.82171	65.89248	14.26718	9.71437	0.2276293	0.17712747	3.1401141	21	4 6.8	21.3
424977 2009 BP_{100}	16.6	X	200.42082	199.70053	151.62503	2.28395	0.0769067	0.17368807	3.1814325	21	3 12.8	21.4
424978 2009 BG_{106}	16.1	X	69.57104	23.49991	135.83276	4.76253	0.1391032	0.17431914	3.1737496	21	5 17.7	20.3
424979 2009 BR_{114}	15.9	X	108.79365	110.11161	321.17792	25.10607	0.2223384	0.17322226	3.1871334	21	3 15.7	21.0
424980 2009 BY_{121}	16.2	X	235.10382	58.46084	321.87527	11.07420	0.1006891	0.18522834	3.0478793	21	5 17.2	21.0
424981 2009 BM_{133}	16.4	X	5.31368	54.81439	139.61910	6.53962	0.0853270	0.17161165	3.2070436	21	3 21.6	20.5
424982 2009 BA_{153}	16.3	X	51.63072	150.95625	40.49542	2.51677	0.1504242	0.17984214	3.1084346	21	6 1.4	20.1
424983 2009 BR_{159}	16.1	X	146.87796	322.66088	142.05204	11.71821	0.0281912	0.17961769	3.1110236	21	5 30.8	20.8
424984 2009 BE_{161}	16.3	X	25.38619	49.81021	153.95275	9.49905	0.0941645	0.17772883	3.1330270	21	5 4.2	20.3
424985 2009 BR_{182}	15.8	X	248.50614	139.57683	154.16916	7.57152	0.0450179	0.16756641	3.2584525	21	2 25.8	20.4
424986 2009 BX_{187}	16.0	X	268.28607	230.20571	139.13764	11.92030	0.1025849	0.18903940	3.0067766	21	6 14.5	20.5
424987 2009 BB_{188}	15.5	X	6.16573	250.37608	313.90667	17.86514	0.1256535	0.17109730	3.2134677	21	3 21.9	19.8
424988 2009 BS_{189}	16.2	X	95.46231	311.55525	162.57863	10.64813	0.1890141	0.17794019	3.1305455	21	5 2.8	20.8
424989 2009 CF_{7}	17.4	X	104.70599	130.33987	118.77551	7.02004	0.1567934	0.27993753	2.3143479	21	11 2.8	20.9
424990 2009 CU_{17}	15.7	X	39.76999	43.15713	138.55191	27.23129	0.1227465	0.17449939	3.1715638	21	5 7.4	20.3
424991 2009 CB_{19}	15.9	X	333.13576	97.77611	157.34640	25.99985	0.1899956	0.17107758	3.2137146	21	4 9.9	20.1
424992 2009 CB_{21}	16.2	X	96.62294	345.47343	147.69366	9.40748	0.0429823	0.17952962	3.1120410	21	5 7.4	20.7
424993 2009 CH_{30}	16.3	X	131.68470	355.56099	133.44757	9.81507	0.0545514	0.18334842	3.0686776	21	6 13.4	20.9
424994 2009 CM_{36}	16.4	X	137.45130	282.75185	133.88181	19.19636	0.3674949	0.17929457	3.1147603	21	4 23.9	22.3
424995 2009 CY_{37}	16.7	X	98.41359	342.10790	168.10959	8.94394	0.1035668	0.18318297	3.0705252	21	6 6.9	21.2
424996 2009 CZ_{40}	15.8	X	138.38910	273.00533	140.75734	9.40200	0.1104377	0.17475882	3.1684241	21	3 28.1	20.6
424997 2009 CH_{45}	16.5	X	210.43568	79.71338	324.58814	8.14298	0.1178984	0.19092173	2.9869812	21	5 21.2	21.3
424998 2009 CU_{48}	15.9	X	297.91861	319.44394	307.41835	11.88444	0.0739022	0.17454761	3.1709796	21	3 12.5	20.6
424999 2009 CB_{58}	16.3	X	141.43022	273.05267	177.56595	13.82200	0.0686427	0.17652438	3.1472622	21	5 10.7	21.1
425000 2009 CG_{61}	15.9	X	65.01698	100.23712	121.24301	11.83039	0.0390912	0.18861856	3.0112474	21	7 15.0	19.9
425001 2009 CN_{64}	16.3	X	345.22046	126.32197	167.19368	12.76044	0.1080313	0.18365078	3.0653085	21	6 24.4	20.3
425002 2009 DL_{4}	17.4	X	253.91519	143.29591	135.23524	25.24978	0.2108324	0.31853838	2.1233824	21	1 11.6	21.0
425003 2009 DK_{6}	16.4	X	338.31055	237.63325	341.28594	3.26498	0.0764681	0.17052557	3.2206463	21	3 11.7	20.6
425004 2009 DN_{39}	15.6	X	300.37592	296.25770	340.46301	25.96487	0.0928104	0.17602101	3.1532595	21	3 21.0	20.2
425005 2009 DU_{46}	15.8	X	37.79683	229.37373	314.21023	9.30150	0.1902608	0.17232222	3.1982214	21	4 29.2	19.6
425006 2009 DF_{64}	17.7	X	163.12925	180.25677	115.23266	5.43699	0.1557411	0.29938927	2.2129855	21	—	—
425007 2009 DQ_{66}	17.9	X	154.21615	2.43669	315.72961	2.90310	0.1636331	0.30766494	2.1731217	21	—	—
425008 2009 DE_{76}	18.3	X	241.71062	75.03906	136.44017	3.64608	0.1375041	0.30457487	2.1877952	21	—	—
425009 2009 DZ_{88}	15.4	X	35.15431	305.03598	260.72949	25.22059	0.2950521	0.17381179	3.1799226	21	6 12.6	18.5
425010 2009 DU_{106}	16.2	X	273.13772	181.69120	130.39841	10.11501	0.0345186	0.17905119	3.1175822	21	4 21.8	20.8
425011 2009 DC_{112}	16.0	X	226.03443	112.39245	171.68304	10.41704	0.0361538	0.15304996	3.4613638	21	1 22.4	21.2
425012 2009 DN_{124}	16.3	X	68.35780	55.22198	102.70559	2.23089	0.1366328	0.17166747	3.2063484	21	5 13.1	20.5
425013 2009 DV_{124}	17.4	X	98.20942	279.64977	8.20333	3.62269	0.1642512	0.28236386	2.3010708	21	12 12.9	20.8
425014 2009 DW_{125}	15.5	X	278.12770	313.05934	359.46253	16.50250	0.0829083	0.16919021	3.2375705	21	4 13.3	20.3
425015 2009 DJ_{126}	16.7	X	65.40507	343.06532	2.78012	23.88038	0.1581766	0.28868755	2.2673436	21	—	—
425016 2009 EL_{6}	16.0	X	222.96259	354.18970	25.53674	10.17169	0.1107505	0.17825202	3.1268935	21	5 4.9	21.0
425017 2009 EW_{16}	15.9	X	355.87307	274.55844	335.42048	9.73764	0.0346520	0.17654406	3.1470282	21	5 13.9	20.4
425018 2009 EE_{19}	16.3	X	42.36444	216.91405	340.95230	5.71102	0.0787889	0.17801681	3.1296472	21	5 16.3	20.4
425019 2009 EK_{29}	15.8	X	10.33595	73.68723	177.89200	13.64760	0.2312699	0.17139585	3.2097350	21	6 14.5	19.3
425020 2009 ES_{30}	17.9	X	204.03861	40.33339	167.37878	4.04060	0.1152404	0.29144815	2.2530034	21	12 20.9	20.9
425021 2009 FH_{3}	18.2	X	337.74299	126.84815	5.45825	7.05025	0.0732990	0.30509806	2.1852934	21	—	—
425022 2009 FN_{7}	17.7	X	141.75193	214.12454	41.11067	5.39897	0.1791896	0.28448579	2.2896143	21	12 12.2	21.3
425023 2009 FL_{22}	17.8	X	223.03454	236.28128	13.85196	4.51984	0.1526042	0.30043240	2.2078600	21	—	—
425024 2009 FK_{66}	18.2	X	257.49109	196.06529	349.01981	3.10621	0.1057166	0.29593493	2.2301730	21	—	—
425025 2009 FR_{67}	17.6	X	43.12852	238.97902	49.88466	3.52797	0.1908132	0.26600857	2.3944492	21	10 15.2	20.2
425026 2009 FB_{70}	17.6	X	83.28099	183.04802	94.95179	3.31620	0.1773309	0.27063925	2.3670578	21	11 16.4	21.0
425027 2009 FN_{71}	15.7	X	5.18682	156.44679	85.03258	15.38155	0.1850317	0.16834182	3.2484389	21	5 21.5	19.3
425028 2009 FZ_{72}	18.0	X	216.59808	175.97393	62.56847	6.48911	0.1081241	0.29397043	2.2400977	21	—	—
425029 2009 FL_{74}	18.0	X	228.94787	233.71437	4.91207	5.64136	0.1145177	0.30277710	2.1964469	21	—	—
425030 2009 FC_{77}	18.3	X	212.34002	151.36828	62.59801	4.76456	0.0723723	0.29118856	2.2543422	21	—	—
425031 2009 HF_{18}	18.5	X	248.41202	89.88382	168.48972	2.61149	0.1199187	0.30723879	2.1751307	21	—	—
425032 2009 HQ_{24}	15.6	X	273.01319	284.34514	66.88180	17.04975	0.0340192	0.17160858	3.2070819	21	6 5.4	20.0
425033 2009 HL_{29}	18.2	X	182.70137	144.13695	149.29889	5.34522	0.1556347	0.30028326	2.2085910	21	—	—
425034 2009 HJ_{78}	18.1	X	75.26141	175.99223	115.57110	2.47924	0.1751231	0.27415026	2.3468047	21	11 25.4	21.4
425035 2009 HK_{98}	18.3	X	250.34804	133.05526	93.17332	4.11367	0.1201389	0.30126520	2.2037893	21	—	—
425036 2009 HF_{103}	17.9	X	148.24347	181.11757	107.73579	3.45845	0.2118848	0.28558112	2.2837561	21	—	—
425037 2009 HT_{104}	17.8	X	56.81579	255.57331	38.28055	1.77737	0.1882239	0.26930780	2.3748532	21	11 8.1	20.9
425038 2009 KN_{16}	17.2	X	87.72667	217.49327	86.83288	7.34519	0.1221256	0.27665344	2.3326272	21	12 19.4	20.5
425039 2009 KX_{37}	13.8	X	338.98242	142.74850	136.34424	18.16659	0.0767392	0.08456465	5.1405565	21	6 5.6	20.5
425040 2009 MS_{2}	17.2	X	201.03275	51.75075	274.88708	6.87984	0.1892712	0.29709595	2.2243590	21	1 27.2	20.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
425041 2009 OF_9	16.6	X	278.27083	148.70203	173.10264	12.55511	0.2577361	0.22830006	2.6513396	21	4 4.4	20.8
425042 2009 PR	17.4	X	69.15121	169.43838	144.02680	1.76019	0.1887598	0.26231558	2.4168702	21	12 15.8	20.9
425043 2009 PE_3	17.5	X	208.92050	170.91038	173.42186	7.74191	0.3092045	0.21661586	2.7458441	21	3 6.2	22.7
425044 2009 PV_7	16.9	X	250.88109	47.32789	319.80503	12.18698	0.2767353	0.22905699	2.6454954	21	4 26.8	21.6
425045 2009 PQ_{12}	17.7	X	64.86326	303.82244	7.34002	2.50109	0.2321800	0.26001406	2.4311112	21	12 12.6	21.2
425046 2009 QY_2	17.8	X	265.28470	86.65282	320.26615	6.29520	0.1975257	0.23774522	2.5806445	21	7 16.2	21.3
425047 2009 QE_8	18.0	X	254.00474	295.55529	334.08276	8.48543	0.4416491	0.30078254	2.2061463	21	—	—
425048 2009 QW_{10}	18.0	X	22.90709	240.47203	97.14399	2.41940	0.1895397	0.25343555	2.4730014	21	11 18.5	20.7
425049 2009 QS_{21}	17.9	X	104.82107	356.75135	326.48228	2.07351	0.2191533	0.27186454	2.3599402	21	—	—
425050 2009 QR_{23}	17.6	X	292.47083	60.91674	260.81606	2.51763	0.2144354	0.23232808	2.6206051	21	4 22.3	21.2
425051 2009 QR_{29}	17.1	X	220.98585	173.26251	195.09700	12.11766	0.1992747	0.22085155	2.7106228	21	4 14.7	21.7
425052 2009 QP_{32}	17.5	X	212.42682	30.89066	324.50676	3.95505	0.1771104	0.21763857	2.7372354	21	3 21.7	22.1
425053 2009 QM_{33}	17.4	X	272.24247	76.01022	296.95293	11.70321	0.2763360	0.23171929	2.6251931	21	5 27.8	21.5
425054 2009 QQ_{34}	16.5	X	285.66648	42.75318	295.48117	12.31744	0.2764261	0.23072106	2.6327597	21	4 23.1	20.8
425055 2009 QA_{40}	17.9	X	100.18113	276.13172	355.59141	6.15161	0.0960022	0.25683309	2.4511434	21	11 13.9	21.4
425056 2009 QM_{50}	17.1	X	223.04207	264.75896	168.73922	4.36466	0.0245893	0.22902496	2.6457421	21	7 20.2	20.7
425057 2009 QK_{54}	16.6	X	259.14530	122.57868	252.52382	8.40444	0.0895522	0.23419119	2.6066878	21	6 9.8	20.1
425058 2009 QB_{59}	17.8	X	239.83409	139.16242	227.98293	1.70281	0.1238510	0.22474967	2.6791889	21	5 4.5	21.9
425059 2009 QC_{62}	16.4	X	4.90257	30.19283	264.15913	14.66305	0.2103127	0.24145651	2.5541326	21	7 31.3	18.8
425060 2009 RN_3	16.7	X	224.60624	75.58743	317.15983	14.90575	0.2229187	0.22476833	2.6790407	21	5 10.8	21.6
425061 2009 RF_8	17.8	X	287.99465	7.03356	345.87306	2.56318	0.3056969	0.23308004	2.6149657	21	5 15.2	21.7
425062 2009 RZ_8	17.5	X	311.65063	5.19449	354.22533	4.43923	0.0928839	0.23774799	2.5806245	21	8 3.9	20.6
425063 2009 RQ_{10}	17.3	X	220.62195	164.16886	184.08864	4.99496	0.1736649	0.21560340	2.7544337	21	3 21.7	21.8
425064 2009 RD_{15}	17.3	X	215.54338	238.15041	183.60924	4.86175	0.1528013	0.22603275	2.6690403	21	6 16.7	21.5
425065 2009 RV_{15}	17.5	X	263.74286	0.62678	16.25677	6.43007	0.1724261	0.22950766	2.6420311	21	6 5.9	21.4
425066 2009 RB_{19}	17.8	X	274.12072	68.76803	304.41397	4.86665	0.3020924	0.23200558	2.6230330	21	5 27.3	21.8
425067 2009 RP_{20}	17.5	X	60.11256	319.92374	16.18992	5.72104	0.1209752	0.25707561	2.4496016	21	12 25.7	20.9
425068 2009 RN_{37}	17.8	X	272.77474	34.72316	7.86504	2.13251	0.1988964	0.23616006	2.5921796	21	7 19.2	21.2
425069 2009 RJ_{41}	17.6	X	228.94663	122.45557	275.20546	4.46782	0.2243584	0.22516077	2.6759269	21	5 24.9	22.2
425070 2009 RL_{43}	17.4	X	257.10467	42.89123	303.69546	4.12534	0.0554627	0.22191413	2.7019631	21	5 3.6	21.3
425071 2009 RB_{46}	17.1	X	221.08796	68.48863	2.99708	5.56925	0.1257203	0.22880287	2.6474539	21	7 7.5	21.1
425072 2009 RQ_{55}	17.0	X	247.53604	322.29910	35.50563	7.02820	0.1408298	0.22105461	2.7089625	21	4 29.3	21.0
425073 2009 RV_{59}	16.8	X	264.00552	60.46725	337.96831	12.37496	0.2663352	0.23278778	2.6171539	21	6 24.8	21.1
425074 2009 RF_{61}	16.9	X	285.56376	68.48159	325.10353	24.57929	0.2021476	0.23819637	2.5773850	21	7 29.4	20.3
425075 2009 RN_{65}	17.6	X	340.92203	222.35319	142.80559	15.19781	0.3222164	0.24628777	2.5206206	21	10 15.2	19.1
425076 2009 RC_{69}	17.6	X	290.62538	57.30787	299.57772	4.90525	0.2903837	0.23494825	2.6010852	21	5 25.5	21.4
425077 2009 RG_{69}	17.5	X	211.97374	13.77924	281.37603	6.32483	0.1948622	0.29074803	2.2566188	21	—	—
425078 2009 RE_{70}	17.1	X	302.20731	194.00941	195.01584	15.02525	0.1974193	0.23928680	2.5695489	21	8 9.4	20.3
425079 2009 RX_{70}	17.8	X	203.47331	261.94994	176.67322	1.96321	0.2194010	0.22598674	2.6694026	21	6 24.0	22.4
425080 2009 RB_{71}	17.4	X	245.83291	351.08998	40.77178	3.07984	0.0417926	0.22975957	2.6400996	21	6 21.9	21.0
425081 2009 RO_{72}	17.0	X	140.90556	290.48038	195.03616	15.62888	0.1825071	0.22012656	2.7165712	21	6 26.9	21.7
425082 2009 RH_{74}	17.7	X	355.79719	295.95525	18.51561	2.45929	0.0414462	0.23602531	2.5931660	21	8 13.6	20.9
425083 2009 RJ_{75}	16.9	X	324.75445	18.67351	342.04615	11.26883	0.0989283	0.24080460	2.5587402	21	8 27.7	19.6
425084 2009 SB_2	16.7	X	281.10437	46.58803	331.57349	11.98703	0.2375775	0.23319513	2.6141052	21	6 20.8	20.5
425085 2009 SS_{15}	17.1	X	214.68463	187.66580	214.00442	8.05890	0.0819347	0.22455357	2.6807485	21	5 25.3	21.1
425086 2009 SG_{19}	17.2	X	249.06302	346.19387	29.07780	14.37521	0.2563622	0.22614029	2.6681941	21	5 9.9	21.7
425087 2009 SJ_{23}	17.0	X	269.35018	206.50353	236.13298	6.07983	0.0665991	0.25187132	2.4832298	21	9 27.2	20.1
425088 2009 SP_{25}	17.5	X	234.65538	47.66581	346.00128	4.06071	0.2884611	0.22557647	2.6726383	21	5 20.1	22.2
425089 2009 SL_{31}	17.3	X	241.91558	278.39693	133.72190	2.86184	0.2284188	0.22931918	2.6434786	21	6 23.7	21.6
425090 2009 SX_{36}	18.0	X	242.89079	90.51345	297.34958	2.07859	0.1342602	0.22599539	2.6693345	21	6 2.3	22.0
425091 2009 SW_{37}	17.6	X	267.50451	23.36123	359.09654	3.58268	0.1526532	0.23057620	2.6338623	21	6 21.4	21.3
425092 2009 SE_{44}	16.8	X	171.03651	327.60071	344.98098	4.71114	0.2326772	0.28038877	2.3118641	21	—	—
425093 2009 SW_{58}	16.9	X	240.88215	225.73291	260.72016	4.22275	0.1707320	0.24332637	2.5410308	21	10 2.1	20.6
425094 2009 SU_{59}	17.1	X	214.25031	137.18939	211.81210	12.58199	0.1703934	0.21296876	2.7771038	21	3 14.6	21.9
425095 2009 SD_{66}	17.4	X	263.55887	172.47178	164.47031	4.89740	0.1451642	0.22130738	2.7068994	21	4 21.2	21.4
425096 2009 SZ_{68}	17.2	X	183.33415	239.48490	145.07411	4.48879	0.1121187	0.21060707	2.7978263	21	4 2.5	21.5
425097 2009 SN_{76}	17.2	X	187.18299	169.44353	63.40577	7.93908	0.0808984	0.26083211	2.4260254	21	12 31.7	20.7
425098 2009 SY_{89}	17.2	X	171.46552	84.02949	326.97580	6.64837	0.2292288	0.21439003	2.7648166	21	4 23.2	22.1
425099 2009 SF_{98}	17.3	X	106.41985	324.89656	348.54989	2.36130	0.1860355	0.26761238	2.3848730	21	—	—
425100 2009 SP_{102}	16.9	X	243.29185	114.25757	196.96834	22.13308	0.3792670	0.21701050	2.7425142	21	2 12.2	22.5
425101 2009 SN_{108}	17.5	X	241.09422	211.91851	148.80179	1.90657	0.2928087	0.22052647	2.7132859	21	4 17.1	22.1
425102 2009 SN_{111}	17.1	X	182.47885	113.96909	345.25930	10.30122	0.1707820	0.22622516	2.6675267	21	7 4.1	21.7
425103 2009 SS_{113}	16.7	X	267.39211	355.03377	297.04631	4.20602	0.0488913	0.21321600	2.7749566	21	3 8.6	20.6
425104 2009 ST_{115}	16.9	X	160.80695	341.73882	226.08551	4.53860	0.0786376	0.25158842	2.4850909	21	10 29.9	20.5
425105 2009 SF_{117}	17.6	X	235.58075	118.05266	325.18890	3.88098	0.1397957	0.23526785	2.5987290	21	8 6.0	21.2
425106 2009 SA_{119}	17.7	X	164.61779	254.13443	2.10775	10.88031	0.1920562	0.26703406	2.3883150	21	12 31.8	21.8
425107 2009 SF_{119}	17.7	X	325.26183	15.91226	341.42431	2.79353	0.1820425	0.24064768	2.5598524	21	8 14.6	19.8
425108 2009 SM_{121}	17.3	X	265.61455	190.07702	201.09485	6.17023	0.2504211	0.23225385	2.6211634	21	6 17.9	21.3
425109 2009 ST_{133}	17.8	X	288.20752	285.34014	70.06045	3.99495	0.1014411	0.23024499	2.6363876	21	6 19.9	21.1
425110 2009 SW_{141}	17.1	X	301.68957	329.09920	6.35866	12.28195	0.2071139	0.23223124	2.6213336	21	5 21.4	20.6
425111 2009 SB_{144}	17.3	X	307.01795	327.51304	25.58297	4.65564	0.2688236	0.23618099	2.5920265	21	6 16.7	20.2
425112 2009 SY_{146}	16.9	X	205.29227	80.79804	30.25217	13.18967	0.2209819	0.22935276	2.6432206	21	8 10.7	21.6
425113 2009 SM_{151}	16.9	X	211.37251	145.86136	196.65396	7.55321	0.0606452	0.21144682	2.7904138	21	3 7.2	21.0
425114 2009 SZ_{159}	17.2	X	209.86690	77.64402	9.36849	13.26297	0.1903858	0.22701927	2.6613025	21	7 14.4	21.8
425115 2009 SQ_{160}	18.0	X	309.52735	22.16897	325.73821	2.64146	0.1677054	0.23383641	2.6093237	21	7 1.8	21.0
425116 2009 SO_{170}	16.9	X	242.12193	208.12481	210.94940	12.87538	0.2409555	0.22868892	2.6483332	21	6 30.0	21.4
425117 2009 SK_{172}	17.2	X	214.34548	204.13213	124.60219	4.24232	0.1789521	0.21091990	2.7950592	21	2 22.7	21.9
425118 2009 SM_{175}	16.6	X	201.11403	243.18235	139.19037	7.67235	0.2555374	0.21766605	2.7370049	21	4 17.4	21.5
425119 2009 SE_{183}	17.4	X	287.58219	13.07901	326.23050	5.84520	0.2340278	0.22933822	2.6433323	21	5 5.4	21.3
425120 2009 SG_{186}	17.4	X	353.54927	100.29271	187.90958	14.61826	0.1297023	0.23135116	2.6279772	21	6 28.9	20.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
425121 2009 SX_{187}	17.1	X	194.21177	242.34125	150.48236	5.30986	0.0811246	0.21499610	2.7596182	21	4 23.5	21.3
425122 2009 SD_{189}	16.4	X	307.72425	78.22220	275.83776	13.88533	0.1125392	0.23470650	2.6028710	21	7 14.6	19.6
425123 2009 SA_{195}	17.4	X	248.39555	215.66949	338.77878	3.12138	0.1177794	0.26782723	2.3835973	21	—	—
425124 2009 SF_{199}	17.2	X	200.31549	50.11114	339.18584	5.29258	0.0537749	0.21657800	2.7461642	21	4 21.5	21.3
425125 2009 SV_{209}	17.3	X	164.30159	131.45071	232.07488	1.13091	0.0787386	0.20355326	2.8620948	21	2 13.3	21.6
425126 2009 SZ_{209}	17.4	X	125.36339	257.26347	359.74212	1.95519	0.1586380	0.25701878	2.4499627	21	11 26.0	21.2
425127 2009 SY_{212}	16.6	X	266.18837	322.99940	22.82109	13.25496	0.1975408	0.22439251	2.6820311	21	4 25.7	20.8
425128 2009 SJ_{216}	17.7	X	267.01893	12.29306	10.97611	4.97699	0.1891190	0.23256849	2.6187988	21	6 16.6	21.4
425129 2009 SK_{216}	16.9	X	168.24662	177.11804	184.04801	15.29489	0.1491420	0.20588066	2.8404840	21	2 17.2	21.5
425130 2009 SY_{218}	16.9	X	263.63985	237.71450	146.08409	17.49678	0.2414167	0.23155523	2.6264329	21	6 10.3	21.3
425131 2009 SO_{224}	17.1	X	139.28569	314.25489	76.04718	3.19897	0.0784158	0.20189105	2.8777828	21	2 20.3	21.2
425132 2009 SK_{229}	16.2	X	311.15621	346.53747	7.23642	18.71038	0.2176435	0.23509155	2.6000280	21	7 8.8	19.5
425133 2009 SY_{234}	16.1	X	303.89656	323.34787	38.13575	16.20049	0.1436961	0.23344285	2.6122556	21	7 19.6	19.5
425134 2009 SC_{238}	17.0	X	256.29161	278.61406	95.48274	7.99035	0.2760608	0.22817305	2.6523235	21	5 17.5	21.3
425135 2009 SP_{239}	17.3	X	220.23897	58.54270	327.56909	8.68387	0.2754648	0.22185885	2.7024119	21	4 28.5	22.2
425136 2009 SU_{239}	16.8	X	214.60752	283.39855	90.22117	10.45658	0.2932101	0.21923428	2.7239371	21	4 17.8	21.9
425137 2009 SJ_{249}	17.7	X	139.71394	256.48411	177.72021	5.17997	0.1431545	0.21029094	2.8006296	21	4 21.7	21.9
425138 2009 SG_{250}	16.4	X	343.50975	65.40315	200.24103	13.33606	0.1393472	0.22411236	2.6842657	21	5 9.0	19.4
425139 2009 SO_{257}	16.8	X	232.00676	207.82289	209.47257	15.02914	0.2716496	0.22897242	2.6461468	21	6 17.5	21.5
425140 2009 SZ_{262}	16.8	X	208.04319	355.08475	30.09672	7.38483	0.1604340	0.21901328	2.7257692	21	4 24.3	21.3
425141 2009 SK_{266}	17.2	X	189.31072	31.68879	275.18549	2.86111	0.1800563	0.28173095	2.3045157	21	—	—
425142 2009 SR_{266}	16.6	X	280.50599	192.79949	215.59708	14.24873	0.0859376	0.23691619	2.5866613	21	8 19.1	20.2
425143 2009 SO_{279}	17.0	X	81.75315	322.51534	33.25112	7.58138	0.1240033	0.26697720	2.3886541	21	—	—
425144 2009 SF_{282}	17.1	X	338.69261	318.33996	54.11419	5.16770	0.0984834	0.24594693	2.5229489	21	10 10.6	19.8
425145 2009 SC_{285}	17.4	X	215.51699	55.86785	359.70128	9.73613	0.1483728	0.22719530	2.6599277	21	6 7.4	21.7
425146 2009 SS_{286}	17.1	X	173.63046	268.25521	263.78114	5.72190	0.0941023	0.24217714	2.5490633	21	9 23.7	20.9
425147 2009 SU_{295}	17.3	X	225.13878	239.58098	155.80832	6.84844	0.0622788	0.22339634	2.6899983	21	5 31.3	21.2
425148 2009 SE_{297}	17.4	X	257.59312	116.58273	275.97180	6.69466	0.2667049	0.22979731	2.6398106	21	6 9.8	21.6
425149 2009 SC_{327}	16.8	X	267.81589	177.35847	210.43251	14.01523	0.2627258	0.22854088	2.6494768	21	6 14.1	21.1
425150 2009 SO_{327}	17.2	X	237.92711	12.27042	66.22162	4.33465	0.0235642	0.23568263	2.5956791	21	8 19.1	20.6
425151 2009 SS_{328}	17.2	X	219.69730	79.08222	328.11187	10.56696	0.2037573	0.22322441	2.6913795	21	5 28.4	21.9
425152 2009 SS_{334}	16.0	X	256.03993	354.56254	36.30431	15.45235	0.1754100	0.22895205	2.6463037	21	6 14.1	20.2
425153 2009 SR_{337}	16.6	X	258.87028	147.12212	230.50261	12.59354	0.2323236	0.22759498	2.6568127	21	5 27.0	20.7
425154 2009 SX_{339}	16.3	X	179.84765	24.77614	88.00821	15.68978	0.1245119	0.21494497	2.7600558	21	7 17.9	20.7
425155 2009 SS_{347}	17.8	X	27.01373	296.86091	36.26543	4.56584	0.0929290	0.25055244	2.4919364	21	11 2.2	20.5
425156 2009 SA_{352}	16.6	X	293.87684	45.27501	318.80732	28.10001	0.2038247	0.23746140	2.5827004	21	6 30.4	20.3
425157 2009 SP_{354}	17.1	X	258.34425	300.82757	23.04331	5.43846	0.2163826	0.22128879	2.7070510	21	3 23.5	21.5
425158 2009 SC_{357}	16.5	X	112.05272	177.45220	51.24914	14.48876	0.0628530	0.23435895	2.6054436	21	10 5.9	20.4
425159 2009 SQ_{358}	17.0	X	274.97718	58.67874	298.87344	12.26277	0.1869999	0.22914603	2.6448101	21	5 21.3	21.0
425160 2009 SU_{358}	17.1	X	300.71985	252.52916	140.68957	5.16082	0.0581437	0.23979770	2.5658979	21	9 8.3	20.1
425161 2009 SA_{360}	16.4	X	282.71570	23.71941	337.56052	12.90353	0.2626732	0.23043654	2.6349264	21	5 23.4	20.5
425162 2009 SE_{360}	17.2	X	258.96953	238.72877	48.81309	6.84381	0.1847827	0.29742248	2.2227307	21	2 2.2	20.7
425163 2009 SL_{363}	17.4	X	212.01944	192.18755	219.65844	3.41150	0.2048965	0.22343652	2.6896758	21	5 29.8	21.8
425164 2009 TU_{7}	17.3	X	57.06719	317.10315	354.21437	5.57745	0.2290062	0.25995562	2.4314755	21	12 3.8	20.8
425165 2009 TK_{9}	16.8	X	235.92648	34.26162	36.88488	12.45056	0.1564986	0.22992420	2.6388392	21	7 22.4	21.0
425166 2009 TD_{13}	15.8	X	281.16246	337.92503	42.64195	32.07305	0.1146091	0.23241810	2.6199284	21	7 15.9	20.0
425167 2009 TO_{13}	17.0	X	200.62435	272.10588	146.96267	8.22666	0.2195621	0.21946322	2.7220424	21	5 30.3	21.8
425168 2009 TD_{18}	17.5	X	137.12951	301.76006	4.46156	5.85359	0.2452978	0.27336301	2.3513082	21	—	—
425169 2009 TV_{18}	17.2	X	82.09202	259.65379	350.37473	5.72386	0.1486349	0.24492723	2.5299465	21	10 1.9	20.8
425170 2009 TB_{33}	16.9	X	149.53373	314.25381	353.19032	6.85736	0.1335308	0.27416526	2.3467191	21	—	—
425171 2009 TR_{47}	17.5	X	247.88364	301.26830	125.57445	4.47234	0.1317556	0.23342872	2.6123610	21	7 30.1	21.2
425172 2009 UQ_{3}	16.7	X	250.07064	295.23455	91.24395	8.28578	0.0974002	0.22685270	2.6626050	21	6 13.3	20.5
425173 2009 UQ_{10}	17.3	X	185.38101	243.22108	159.99675	3.99838	0.0998648	0.21520686	2.7578161	21	4 26.8	21.5
425174 2009 UN_{19}	16.7	X	191.44525	318.73362	119.94845	17.21761	0.2339802	0.21988062	2.7185964	21	6 16.2	21.6
425175 2009 UD_{20}	17.8	X	201.26637	93.60913	326.57798	5.98486	0.2940527	0.21778311	2.7360241	21	5 28.1	22.8
425176 2009 UQ_{21}	17.4	X	250.98464	342.78136	140.46377	6.42055	0.1745505	0.24553910	2.5257418	21	10 14.8	20.8
425177 2009 UA_{32}	17.0	X	230.13220	334.29270	41.98881	5.43690	0.1272251	0.21763498	2.7372655	21	5 6.1	21.0
425178 2009 US_{32}	17.5	X	206.92184	214.77347	47.54058	5.12498	0.0956630	0.26923589	2.3752760	21	—	—
425179 2009 UE_{35}	16.6	X	292.10602	295.17597	49.23918	6.60726	0.0697027	0.22243542	2.6977400	21	6 15.1	20.1
425180 2009 UL_{35}	17.5	X	279.72645	313.46467	66.34976	3.05655	0.2482180	0.22984113	2.6394750	21	6 19.1	21.1
425181 2009 UJ_{38}	16.2	X	271.90625	288.65972	52.05412	14.76827	0.0585954	0.21807785	2.7335584	21	5 15.7	20.0
425182 2009 UN_{38}	15.8	X	327.46627	105.45761	54.79645	12.81094	0.1209684	0.18368069	3.0649758	21	—	—
425183 2009 UY_{43}	17.4	X	131.77419	285.37046	204.38926	1.82920	0.1183422	0.21887100	2.7269503	21	6 19.1	21.4
425184 2009 UJ_{62}	17.1	X	139.26090	8.31915	184.05128	6.53090	0.0942916	0.23847529	2.5753749	21	9 15.2	20.8
425185 2009 UH_{69}	16.6	X	239.57548	215.87504	170.80046	13.79978	0.2032547	0.22315572	2.6919317	21	5 25.2	21.2
425186 2009 UK_{70}	18.0	X	238.64454	296.20541	95.31779	6.21764	0.1639491	0.22523157	2.6753660	21	5 31.7	22.1
425187 2009 UB_{74}	17.2	X	159.66397	285.15340	219.50141	12.16669	0.2086177	0.22677961	2.6631771	21	8 4.7	21.9
425188 2009 UE_{79}	16.8	X	247.98901	232.69165	227.79054	13.28523	0.0269373	0.23696695	2.5862918	21	9 24.7	20.4
425189 2009 UR_{96}	17.0	X	99.12884	26.94193	44.08046	14.51808	0.2337979	0.19702535	2.9249693	21	3 22.8	21.3
425190 2009 UW_{96}	17.2	X	273.71983	196.06977	201.80394	7.69245	0.0934938	0.23274025	2.6175102	21	7 27.5	20.7
425191 2009 UT_{107}	17.0	X	86.34027	166.23205	47.57771	6.20903	0.0108282	0.22549352	2.6732936	21	8 1.6	20.6
425192 2009 UJ_{111}	17.3	X	288.19750	153.59840	232.83272	1.97079	0.1127928	0.23104232	2.6303186	21	7 30.9	20.6
425193 2009 US_{111}	17.1	X	314.37903	167.10495	236.05341	11.73406	0.1658880	0.24109267	2.5567016	21	9 28.3	19.9
425194 2009 UD_{135}	17.3	X	168.19173	231.14745	234.33303	2.50575	0.1585669	0.21743657	2.7389303	21	6 27.1	21.6
425195 2009 UX_{136}	16.8	X	302.51298	328.28497	56.13911	13.80633	0.1693105	0.23602914	2.5931380	21	8 19.3	20.0
425196 2009 UC_{151}	16.5	X	44.76622	233.19224	231.70837	8.94639	0.1035289	0.19076003	2.9886689	21	1 19.0	20.3
425197 2009 UO_{151}	16.5	X	327.52077	345.82980	349.16625	12.89974	0.2211435	0.23554802	2.5966679	21	7 12.3	19.2
425198 2009 UM_{152}	16.9	X	242.45280	161.30450	343.07317	5.05623	0.1324289	0.24384070	2.5374564	21	11 2.0	20.2
425199 2009 UY_{153}	17.7	X	320.77907	292.95521	45.97374	4.07044	0.0238558	0.22827849	2.6515066	21	7 27.3	21.1
425200 2009 VS_{3}	17.5	X	202.67703	162.91957	300.64136	2.42194	0.1241080	0.22675351	2.6633815	21	7 28.9	21.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
425201 2009 VA_4	17.4	X	223.10866	88.21749	2.69609	3.38632	0.1418040	0.22854150	2.6494720	21	8 2.8	21.5
425202 2009 VE_8	17.0	X	270.44909	342.49279	36.41312	4.66929	0.1881311	0.22748993	2.6576305	21	6 15.0	20.7
425203 2009 VW_{14}	17.1	X	147.95297	175.17352	272.74997	3.59971	0.0798391	0.21244946	2.7816275	21	5 9.9	21.2
425204 2009 VJ_{18}	16.8	X	261.08373	296.89283	12.02031	4.59418	0.0769917	0.20853124	2.8163630	21	3 22.0	20.8
425205 2009 VA_{19}	17.5	X	292.14330	28.02370	352.76631	2.54601	0.1961332	0.23297860	2.6157247	21	7 16.5	20.5
425206 2009 VR_{23}	16.6	X	110.88158	291.15914	261.94814	9.92119	0.0205685	0.22447949	2.6813382	21	8 2.2	20.4
425207 2009 VD_{31}	17.3	X	208.59782	113.65098	305.25654	3.84238	0.1075108	0.21906787	2.7253164	21	6 8.0	21.4
425208 2009 VM_{32}	17.0	X	271.07136	119.38918	276.57552	6.13700	0.1224254	0.22805733	2.6532206	21	7 18.3	20.5
425209 2009 VL_{39}	17.2	X	134.85650	326.10564	32.21671	6.85660	0.1197210	0.27549842	2.3391423	21	—	—
425210 2009 VG_{43}	16.1	X	241.66601	207.31743	247.93118	13.12909	0.0495118	0.23295026	2.6159368	21	9 2.8	20.1
425211 2009 VA_{45}	17.0	X	220.40020	74.99316	26.68227	12.91622	0.2161035	0.22793016	2.6542073	21	8 12.5	21.6
425212 2009 VW_{48}	16.9	X	271.46791	253.69508	101.21224	7.42253	0.0583834	0.21730374	2.7400464	21	6 4.5	20.7
425213 2009 VH_{52}	18.0	X	326.52132	346.36049	34.74332	3.35002	0.0596592	0.24128797	2.5553219	21	10 1.4	21.0
425214 2009 VA_{55}	16.5	X	158.95857	65.29973	268.11509	11.55124	0.1824405	0.18739225	3.0243703	21	1 13.6	21.4
425215 2009 VQ_{55}	16.8	X	287.75963	177.01679	244.89976	13.67309	0.0830970	0.23827899	2.5767891	21	9 17.3	20.3
425216 2009 VW_{61}	17.4	X	276.72097	346.17092	56.69145	5.06323	0.1513689	0.23164006	2.6257917	21	8 2.5	20.9
425217 2009 VL_{63}	17.3	X	190.97681	287.21931	134.95188	1.14578	0.0625033	0.21384346	2.7695257	21	5 25.8	21.4
425218 2009 VQ_{63}	16.2	X	282.16871	327.75147	68.61430	14.36792	0.1953610	0.23098757	2.6307342	21	7 25.7	19.8
425219 2009 VA_{66}	16.9	X	219.32987	136.40180	263.58297	4.73801	0.0340539	0.21725641	2.7404443	21	5 31.2	20.7
425220 2009 VS_{66}	17.2	X	249.21567	335.84583	37.21194	5.44133	0.1289813	0.21978771	2.7193625	21	5 21.4	21.2
425221 2009 VT_{66}	17.6	X	177.35706	83.27347	23.40061	2.55308	0.2216821	0.21825373	2.7320895	21	7 7.9	22.2
425222 2009 VS_{67}	17.0	X	166.98633	214.77804	264.52161	4.45548	0.0548551	0.22103670	2.7091089	21	7 10.8	20.9
425223 2009 VH_{68}	16.6	X	94.62629	6.15523	52.99894	7.83340	0.1407557	0.19094075	2.9867827	21	2 14.3	20.7
425224 2009 VP_{69}	17.0	X	330.65155	107.06887	252.01739	5.87439	0.1198243	0.23485332	2.6017861	21	8 29.3	19.9
425225 2009 VF_{80}	16.8	X	238.41721	255.83519	143.55375	13.39362	0.2721552	0.22454670	2.6808032	21	6 3.9	21.6
425226 2009 VG_{87}	16.6	X	155.70011	314.55868	77.57704	13.00391	0.0603522	0.19976559	2.8981593	21	3 17.1	21.1
425227 2009 VT_{89}	16.8	X	107.34788	286.24188	296.27991	5.41339	0.0560424	0.23272361	2.6176350	21	9 11.9	20.6
425228 2009 VT_{90}	17.3	X	183.45780	67.20581	358.72520	5.14779	0.1950250	0.21343378	2.7730686	21	5 21.9	22.0
425229 2009 VS_{95}	16.4	X	198.47658	273.49885	95.07572	10.77488	0.1493045	0.20459181	2.8524008	21	4 2.6	21.2
425230 2009 VT_{95}	16.2	X	227.63607	344.29263	60.49854	12.41390	0.1215993	0.21767769	2.7369074	21	6 8.5	20.4
425231 2009 VQ_{97}	16.9	X	191.97077	12.41050	47.80890	10.34994	0.1149545	0.21439112	2.7648072	21	5 22.8	21.2
425232 2009 VP_{113}	17.3	X	247.25447	328.63935	55.22749	6.23100	0.0367275	0.22138804	2.7062419	21	6 13.5	21.1
425233 2009 VR_{115}	16.8	X	228.38507	274.12192	81.52005	8.50897	0.2398250	0.21195490	2.7859527	21	4 8.0	21.7
425234 2009 VL_{116}	15.9	X	241.05381	233.85443	85.46895	10.53224	0.0657999	0.19304052	2.9650844	21	3 20.5	20.4
425235 2009 WZ_5	17.1	X	185.94954	251.02185	236.69611	11.39701	0.1879125	0.22460292	2.6803558	21	8 5.8	21.8
425236 2009 WE_7	17.2	X	288.60387	54.80905	305.35692	12.08566	0.3049351	0.23211799	2.6221861	21	5 24.3	21.2
425237 2009 WL_{10}	16.9	X	280.57340	277.90774	156.35324	5.64298	0.2333062	0.23567146	2.5957611	21	9 6.0	19.9
425238 2009 WQ_{12}	17.2	X	178.47962	46.34247	212.15092	6.34225	0.0940679	0.26057332	2.4276314	21	—	—
425239 2009 WS_{17}	16.7	X	181.99001	90.99695	217.30248	12.96869	0.0618766	0.18988830	2.9978086	21	—	—
425240 2009 WB_{19}	17.2	X	130.71783	315.25200	106.49444	3.20855	0.0626626	0.20192324	2.8774769	21	3 19.3	21.2
425241 2009 WL_{30}	16.1	X	33.00354	37.42536	244.75448	14.31964	0.0965133	0.22963386	2.6410630	21	8 22.4	19.7
425242 2009 WP_{32}	17.2	X	197.81257	334.68450	91.55064	5.98794	0.3235531	0.21775196	2.7362851	21	6 3.1	22.4
425243 2009 WT_{42}	16.0	X	54.91272	116.29327	83.60404	9.59434	0.0802701	0.20877892	2.8141351	21	6 7.6	19.4
425244 2009 WA_{44}	17.0	X	0.71325	100.68285	247.17513	13.56934	0.1575463	0.24006816	2.5639704	21	10 11.4	19.9
425245 2009 WJ_{45}	16.7	X	231.50177	334.36732	67.89369	15.17347	0.1308180	0.22114118	2.7082555	21	6 8.6	20.8
425246 2009 WC_{48}	16.4	X	302.76978	139.43003	244.32182	16.77533	0.1182168	0.23445735	2.6047146	21	8 10.7	20.0
425247 2009 WP_{50}	17.5	X	210.83392	222.45633	160.43571	4.68107	0.3093932	0.21604422	2.7506856	21	4 22.7	22.6
425248 2009 WG_{51}	16.5	X	173.54863	203.57364	258.07473	7.90478	0.1242363	0.21582431	2.7525537	21	6 26.6	20.7
425249 2009 WK_{52}	16.6	X	314.43433	83.92159	268.13574	13.48536	0.1663089	0.23174588	2.6249923	21	7 14.4	19.6
425250 2009 WG_{54}	21.2	X	280.20619	85.91797	64.34802	13.02442	0.2880243	0.50421717	1.5633551	21	—	—
425251 2009 WK_{62}	17.1	X	200.50183	320.43069	82.42005	9.69627	0.1060753	0.21370488	2.7707229	21	5 12.9	21.4
425252 2009 WE_{65}	17.3	X	220.90077	150.61361	213.58756	7.60670	0.1917866	0.21861400	2.7290872	21	4 8.6	21.8
425253 2009 WS_{70}	17.0	X	240.75632	316.17402	71.13849	6.02242	0.1743058	0.22119841	2.7077883	21	5 27.2	21.1
425254 2009 WY_{72}	17.6	X	185.44120	264.37114	183.45104	3.00665	0.1602106	0.21801102	2.7341169	21	6 21.0	22.1
425255 2009 WU_{77}	16.0	X	42.72914	228.44680	276.32001	7.53594	0.0593006	0.19619717	2.9331947	21	3 3.1	19.9
425256 2009 WX_{78}	17.5	X	229.04143	216.35216	62.90064	4.05023	0.1732484	0.28256629	2.2999716	21	—	—
425257 2009 WH_{79}	17.5	X	200.14156	231.24290	178.08531	2.49718	0.0637025	0.21777185	2.7361185	21	5 19.7	21.4
425258 2009 WS_{84}	17.2	X	284.82876	340.95427	13.30835	6.96300	0.0755539	0.22259489	2.6964513	21	6 17.6	20.8
425259 2009 WY_{85}	16.5	X	173.75645	193.78820	279.46435	7.02706	0.2050239	0.21802853	2.7339705	21	7 12.3	21.2
425260 2009 WD_{86}	17.5	X	269.05326	344.22308	21.30642	6.45943	0.0410340	0.21978576	2.7193787	21	6 16.8	21.2
425261 2009 WW_{86}	16.2	X	124.64757	237.48802	265.28698	10.83304	0.1069718	0.21477104	2.7615457	21	6 26.6	20.1
425262 2009 WC_{87}	15.9	X	296.76950	135.74620	52.66929	17.30294	0.0853779	0.18169958	3.0872142	21	—	—
425263 2009 WS_{88}	16.0	X	67.37913	9.40800	77.65886	17.34797	0.0666495	0.18924025	3.0046488	21	2 2.5	20.2
425264 2009 WS_{95}	17.5	X	247.69073	215.56255	144.31456	0.91502	0.2190669	0.21927894	2.7235672	21	4 26.1	21.7
425265 2009 WU_{105}	16.4	X	203.99743	324.49371	99.69031	7.57373	0.0485523	0.21759837	2.7375725	21	6 13.0	20.4
425266 2009 WB_{113}	16.8	X	184.72321	243.59845	234.53439	13.41551	0.1232701	0.22300860	2.6931154	21	7 24.9	21.3
425267 2009 WM_{113}	17.3	X	186.86630	47.80871	34.12330	5.89959	0.1448128	0.22248566	2.6973338	21	6 14.4	21.7
425268 2009 WS_{117}	16.3	X	159.29781	79.51096	250.13621	7.67427	0.0442347	0.18693617	3.0292874	21	—	—
425269 2009 WH_{127}	16.2	X	139.28271	276.53421	75.60221	10.74221	0.0709995	0.18527201	3.0474003	21	1 6.4	20.6
425270 2009 WX_{127}	17.4	X	191.85755	146.07241	102.99038	3.03606	0.1392372	0.25665875	2.4522533	21	—	—
425271 2009 WE_{128}	16.9	X	287.89515	130.04488	201.66960	1.62593	0.0768247	0.21613796	2.7498902	21	5 22.9	20.6
425272 2009 WQ_{128}	16.4	X	239.63618	314.95100	66.43826	6.90979	0.0530254	0.21823570	2.7322401	21	5 30.0	20.2
425273 2009 WH_{129}	17.6	X	282.02426	91.71231	254.88831	3.66318	0.1337306	0.22282304	2.6946104	21	5 25.5	21.4
425274 2009 WC_{141}	17.4	X	210.00467	345.56121	94.70650	8.06185	0.1195240	0.22369977	2.6875653	21	7 6.8	21.4
425275 2009 WY_{145}	17.2	X	180.93914	71.71348	355.50550	3.36257	0.1856708	0.21281358	2.7784537	21	5 21.7	21.9
425276 2009 WG_{168}	17.3	X	300.87092	121.99789	218.57222	5.29170	0.0567573	0.22339500	2.6900091	21	6 24.6	20.9
425277 2009 WT_{170}	16.6	X	21.14186	295.70522	15.77842	4.77367	0.2067794	0.24053130	2.5606781	21	10 8.9	19.1
425278 2009 WD_{177}	17.2	X	265.18739	134.64804	283.54208	8.67150	0.0662602	0.23135488	2.6279491	21	8 16.1	20.7
425279 2009 WB_{180}	17.0	X	189.43529	75.82140	78.38648	12.61048	0.1316408	0.23089719	2.6314207	21	9 25.2	21.3
425280 2009 WQ_{180}	17.0	X	254.96335	285.74765	95.94528	5.93973	0.1266516	0.22047010	2.7137485	21	6 9.4	20.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
425281 2009 WB_{181}	16.8	X	165.53781	110.32143	79.44323	17.22251	0.1841007	0.23269646	2.6178386	21	10 17.4	21.4
425282 2009 WH_{184}	16.4	X	338.99229	157.61788	231.47731	6.29049	0.1669553	0.24040512	2.5615740	21	11 2.6	18.5
425283 2009 WD_{186}	17.2	X	242.82431	159.20059	272.90845	4.22156	0.1463656	0.22964012	2.6410150	21	7 28.4	21.0
425284 2009 WR_{190}	17.1	X	350.91755	243.23353	83.89031	3.17812	0.0970660	0.23103356	2.6303851	21	8 24.7	19.9
425285 2009 WQ_{191}	17.1	X	212.37058	121.91199	250.87650	3.79236	0.1349553	0.21201217	2.7854510	21	4 13.2	21.6
425286 2009 WA_{202}	15.7	X	170.33298	300.83291	96.35896	13.39165	0.0697483	0.20386709	2.8591567	21	4 8.8	20.2
425287 2009 WR_{205}	17.1	X	260.70344	327.11655	39.74669	6.69326	0.0768190	0.21999784	2.7176307	21	6 2.1	21.0
425288 2009 WK_{208}	17.2	X	165.62857	76.68632	44.80762	4.04119	0.1486786	0.21807216	2.7336059	21	7 15.6	21.5
425289 2009 WS_{209}	16.8	X	144.07935	62.76732	92.92884	10.02630	0.1867766	0.21578371	2.7528990	21	8 10.4	21.4
425290 2009 WD_{211}	17.1	X	290.97445	261.51073	95.14338	5.23641	0.0956327	0.22433192	2.6825140	21	6 26.8	20.4
425291 2009 WK_{213}	17.0	X	231.28193	56.86686	352.96685	12.40975	0.2640627	0.22416435	2.6838507	21	6 7.2	21.8
425292 2009 WP_{213}	16.7	X	244.94077	56.32806	356.08745	12.51938	0.1710172	0.22861228	2.6489251	21	7 4.9	21.0
425293 2009 WU_{224}	15.6	X	205.31458	145.58907	91.66089	11.14273	0.0577240	0.17185641	3.2039979	21	—	—
425294 2009 WH_{250}	17.1	X	288.08227	105.12324	261.93127	6.83452	0.2591132	0.22994824	2.6386553	21	6 10.8	20.6
425295 2009 WN_{251}	16.6	X	168.99096	36.88785	72.88573	9.73909	0.1742668	0.21649624	2.7468555	21	7 3.8	21.2
425296 2009 WR_{262}	15.7	X	283.91830	180.06789	94.80600	11.15591	0.0591528	0.19094247	2.9867648	21	3 16.1	20.1
425297 2009 XR_{3}	16.6	X	19.84108	211.61095	245.41874	12.33212	0.3326235	0.17729457	3.1381408	21	—	—
425298 2009 XF_{19}	16.0	X	335.89039	300.04451	286.88397	9.16493	0.0452914	0.19067082	2.9896010	21	3 14.1	20.2
425299 2009 XA_{21}	16.9	X	170.37387	20.16487	103.48832	6.58182	0.1158733	0.21362441	2.7714186	21	7 22.0	21.2
425300 2009 XV_{21}	16.8	X	144.73856	236.04240	337.03868	11.13255	0.1331588	0.22881593	2.6473532	21	10 13.1	21.1
425301 2009 XR_{23}	17.0	X	33.30444	137.16105	292.83153	6.74213	0.2652681	0.17813510	3.1282615	21	—	—
425302 2009 XW_{23}	16.6	X	198.39399	359.46753	55.89363	6.50494	0.2147675	0.21212038	2.7845036	21	5 22.4	21.4
425303 2009 YU	17.2	X	355.11889	29.97003	35.72303	7.68097	0.1077087	0.25879131	2.4387629	21	—	—
425304 2009 YU_{4}	16.4	X	157.68147	142.68014	302.21390	14.00803	0.1108179	0.20333926	2.8641025	21	5 17.3	21.0
425305 2009 YU_{8}	16.1	X	186.76635	181.07261	272.27339	7.31176	0.1338619	0.21430548	2.7655437	21	6 29.4	20.4
425306 2009 YX_{12}	16.5	X	175.22557	151.77052	299.00998	6.48824	0.1089129	0.21031658	2.8004020	21	6 14.6	20.9
425307 2009 YU_{13}	15.7	X	0.75592	68.65519	102.87470	27.09051	0.2196754	0.18083792	3.0970132	21	1 29.5	19.2
425308 2009 YT_{14}	15.9	X	330.38185	294.32684	298.18675	14.23743	0.1115513	0.19058138	2.9905363	21	3 3.5	20.1
425309 2009 YJ_{17}	16.6	X	250.74067	88.95137	281.93478	6.03928	0.0694759	0.21088450	2.7953720	21	5 27.7	20.5
425310 2009 YZ_{18}	16.7	X	248.23693	253.10166	151.82027	5.70373	0.1001390	0.21677318	2.7445154	21	7 4.8	20.8
425311 2009 YE_{23}	16.4	X	56.01032	23.10266	105.22829	17.59802	0.2412404	0.18567128	3.0430299	21	4 7.3	20.2
425312 2009 YY_{24}	15.7	X	307.90551	62.23852	128.09678	10.37875	0.0427840	0.17514399	3.1637772	21	1 1.5	20.2
425313 2010 AA_{2}	15.9	X	80.10991	93.75098	311.47792	15.95061	0.0678542	0.17517097	3.1634523	21	1 1.3	20.3
425314 2010 AU_{3}	16.0	X	180.48539	309.87752	116.78842	14.46978	0.0923784	0.20674950	2.8325205	21	5 24.4	20.6
425315 2010 AP_{6}	15.3	X	226.56634	148.74709	113.76987	28.11444	0.1378873	0.17423117	3.1748179	21	—	—
425316 2010 AQ_{7}	16.9	X	164.89168	246.25818	135.34945	2.02747	0.1425159	0.19140279	2.9819742	21	3 14.7	21.7
425317 2010 AB_{12}	16.7	X	91.88046	310.00800	128.25819	12.31514	0.2468457	0.18775988	3.0204212	21	3 23.4	20.9
425318 2010 AA_{13}	17.0	X	32.82826	47.43564	81.77144	2.97941	0.2199668	0.18615512	3.0377549	21	2 7.4	19.8
425319 2010 AJ_{14}	16.2	X	4.74464	208.71779	300.28236	4.02131	0.0894468	0.17818363	3.1276935	21	1 19.4	20.1
425320 2010 AA_{23}	16.1	X	20.86641	1.20355	130.56703	6.62962	0.1072000	0.17762127	3.1342916	21	1 21.3	19.9
425321 2010 AN_{33}	16.5	X	5.50867	231.63889	106.22840	13.88316	0.0889070	0.22505347	2.6767773	21	10 9.3	20.0
425322 2010 AZ_{50}	16.4	X	52.38928	296.43869	156.75085	12.31131	0.1434086	0.17797886	3.1300920	21	1 23.6	20.3
425323 2010 AE_{51}	15.6	X	87.60640	146.81244	273.75267	9.58437	0.1150831	0.17857236	3.1231527	21	1 30.5	19.8
425324 2010 AV_{51}	16.1	X	36.60497	307.43641	273.95241	11.86243	0.1211949	0.20210784	2.8757245	21	6 13.2	19.5
425325 2010 AZ_{53}	16.5	X	69.13270	123.08130	158.91599	9.79828	0.1170525	0.22207768	2.7006363	21	10 25.0	20.3
425326 2010 AS_{55}	16.2	X	14.38609	74.61421	122.76424	9.32750	0.0313160	0.18880941	3.0092179	21	4 8.5	20.4
425327 2010 AA_{56}	16.9	X	90.87736	352.96983	116.00077	6.40579	0.2322342	0.18967352	3.0000714	21	4 25.8	21.2
425328 2010 AD_{58}	16.7	X	107.06898	333.88571	97.06088	3.36716	0.1894262	0.19168682	2.9790277	21	3 21.3	20.9
425329 2010 AW_{58}	15.8	X	329.68101	29.92777	194.44346	20.06748	0.1407401	0.17237287	3.1975949	21	2 22.6	20.3
425330 2010 AY_{59}	17.1	X	177.10660	107.05412	304.77140	19.44977	0.0968020	0.36912064	1.9246739	21	3 31.6	20.0
425331 2010 AO_{63}	17.1	X	211.98446	340.21436	86.46333	9.18889	0.2126482	0.21440586	2.7646805	21	6 16.8	21.6
425332 2010 AY_{66}	15.2	X	9.92705	0.36049	144.92848	24.57297	0.1443716	0.17428791	3.1741288	21	1 19.7	19.2
425333 2010 AU_{74}	17.0	X	97.65094	326.10483	144.42101	24.17663	0.0642703	0.36167542	1.9509975	21	3 19.8	19.0
425334 2010 AV_{74}	16.2	X	100.43741	149.04760	311.07525	8.64434	0.0415168	0.19162408	2.9796779	21	3 22.6	20.5
425335 2010 AC_{87}	16.0	X	16.68006	141.09759	122.50041	9.15912	0.2078220	0.19152157	2.9807411	21	7 14.4	19.1
425336 2010 AL_{93}	16.0	X	58.87983	129.14860	339.26374	13.72200	0.1013320	0.17186000	3.2039533	21	2 21.5	20.1
425337 2010 AR_{105}	16.3	X	107.37332	15.20099	108.46690	7.15911	0.0662289	0.18558664	3.0439551	21	5 10.9	20.7
425338 2010 AY_{109}	16.2	X	33.05786	73.94536	95.87339	13.29793	0.1782942	0.17834499	3.1258066	21	4 11.3	19.9
425339 2010 AX_{110}	16.1	X	172.28338	355.10978	52.63041	10.86084	0.0186199	0.18154456	3.0889714	21	4 19.2	20.5
425340 2010 AE_{111}	15.9	X	87.01315	135.79556	336.22764	27.69455	0.1246187	0.17873280	3.1212835	21	3 24.6	20.6
425341 2010 AN_{124}	16.4	X	44.73767	105.00455	80.35101	10.21016	0.1056661	0.18348078	3.0672017	21	5 10.2	20.3
425342 2010 AP_{124}	16.3	X	10.23261	18.06942	173.18857	10.78083	0.1624091	0.17602421	3.1532212	21	3 20.3	19.7
425343 2010 BX_{3}	15.8	X	53.60228	132.86283	105.18512	4.80658	0.0413976	0.21142531	2.7906031	21	7 22.6	19.5
425344 2010 BY_{4}	15.9	X	15.27061	20.64365	131.96294	11.47492	0.0447806	0.18014152	3.1049897	21	2 9.9	20.0
425345 2010 BD_{22}	16.5	X	38.98832	170.67156	336.84779	15.00606	0.2110972	0.17548958	3.1596223	21	3 15.2	20.0
425346 2010 BP_{25}	16.0	X	42.72914	298.45150	232.53186	26.21069	0.1597625	0.18071081	3.0984653	21	4 18.9	19.8
425347 2010 BP_{32}	16.5	X	83.48122	332.05133	210.02627	0.96715	0.1419143	0.19146699	2.9813075	21	7 3.5	20.7
425348 2010 BY_{34}	13.7	X	18.61552	202.88851	176.88250	20.14963	0.0598278	0.08435564	5.1490445	21	11 18.5	20.5
425349 2010 BV_{40}	16.0	X	70.98307	38.85584	84.93076	10.38682	0.0630443	0.17500834	3.1654118	21	3 29.1	20.4
425350 2010 BQ_{42}	16.0	X	322.27327	323.22173	273.69044	14.40978	0.0605816	0.17334644	3.1856112	21	3 6.3	20.8
425351 2010 BP_{43}	16.1	X	70.40869	86.88184	60.14369	21.61627	0.1769483	0.18283030	3.0744724	21	5 9.5	20.1
425352 2010 BX_{46}	16.2	X	304.18289	42.45379	216.08797	15.37540	0.0496013	0.17403955	3.1771477	21	3 15.2	20.9
425353 2010 BM_{52}	16.8	X	249.30316	295.04229	98.25867	11.73309	0.2106306	0.22739847	2.6583430	21	6 9.5	21.0
425354 2010 BC_{53}	15.4	X	307.85494	190.83456	89.20994	26.08730	0.2133324	0.17619635	3.1511672	21	4 10.8	20.2
425355 2010 BM_{53}	15.2	X	345.16922	221.78918	340.81321	21.60993	0.0775218	0.17068958	3.2185829	21	3 1.3	19.4
425356 2010 BV_{63}	15.5	X	197.83540	225.12867	158.95805	18.02742	0.0943011	0.17927308	3.1150091	21	4 21.7	20.5
425357 2010 BX_{65}	15.8	X	13.54351	279.80021	251.75120	14.91126	0.0815667	0.17143758	3.2092141	21	2 23.6	20.3
425358 2010 BZ_{74}	16.7	X	40.45447	92.34458	77.13049	7.16507	0.1344137	0.17770875	3.1332629	21	4 16.3	20.5
425359 2010 BM_{75}	15.1	X	154.81603	224.57322	81.13983	11.14882	0.0674220	0.14691841	3.5570112	21	—	—
425360 2010 BX_{77}	15.9	X	133.75021	20.47749	75.31730	18.44877	0.0752731	0.18290026	3.0736884	21	5 10.7	20.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
425361 2010 BU_{78}	15.6	X	268.78078	19.39789	302.99628	16.40922	0.1186225	0.17804237	3.1293476	21	4 5.2	20.7
425362 2010 BM_{87}	16.4	X	116.65109	312.56846	200.57767	7.93203	0.1070541	0.19196873	2.9761105	21	6 30.6	20.9
425363 2010 BS_{87}	15.9	X	292.24270	309.55985	328.94566	14.73636	0.0633030	0.17366874	3.1816687	21	3 21.1	20.6
425364 2010 BQ_{97}	16.1	X	352.09847	251.03150	339.25949	11.10979	0.0701531	0.17716471	3.1396741	21	4 9.9	20.3
425365 2010 BF_{129}	17.3	X	259.72853	57.38750	330.22569	6.42463	0.0738357	0.22612736	2.6682958	21	6 30.6	21.0
425366 2010 CX_2	15.9	X	65.66701	339.59432	139.62895	7.05405	0.0833227	0.18257938	3.0772886	21	3 13.5	19.9
425367 2010 CF_3	18.2	X	36.12076	297.44887	329.67523	17.13010	0.0579212	0.38187527	1.8815757	21	8 19.9	19.4
425368 2010 CQ_4	16.2	X	237.75703	308.41753	120.17014	8.48091	0.1187527	0.21503127	2.7593172	21	7 21.7	20.3
425369 2010 CF_6	15.8	X	346.15163	63.70713	150.98369	16.38719	0.1277652	0.17093463	3.2155061	21	3 14.9	19.9
425370 2010 CQ_6	16.0	X	94.58725	340.75047	119.91518	22.42108	0.0538632	0.17134794	3.2103333	21	4 2.4	20.9
425371 2010 CQ_{18}	16.5	X	46.58102	346.88507	134.92990	14.89365	0.2200465	0.18217186	3.0818762	21	3 1.2	19.7
425372 2010 CU_{28}	16.2	X	75.45845	135.37552	353.76390	11.50784	0.1122260	0.18469348	3.0537607	21	4 7.4	20.2
425373 2010 CU_{31}	16.1	X	19.20727	89.63354	139.67355	18.27430	0.0916208	0.19669998	2.9281940	21	5 28.8	20.1
425374 2010 CU_{33}	15.7	X	311.16546	298.84793	324.25456	10.08264	0.1187019	0.18532990	3.0467657	21	3 18.5	19.9
425375 2010 CP_{35}	16.3	X	127.45281	39.62284	16.64593	5.21215	0.1560533	0.18354888	3.0664429	21	3 21.6	20.9
425376 2010 CT_{35}	16.4	X	291.93833	141.62568	100.41655	4.44266	0.0630285	0.17474696	3.1685676	21	2 11.5	20.9
425377 2010 CA_{36}	15.8	X	79.38466	312.65080	145.24899	17.28044	0.0752782	0.17906632	3.1174066	21	3 5.2	20.0
425378 2010 CZ_{37}	16.5	X	24.14519	211.92303	329.48988	8.36109	0.0810838	0.18598122	3.0396482	21	3 25.9	20.5
425379 2010 CA_{41}	16.8	X	43.79474	61.61489	160.72086	12.00269	0.2677110	0.19035707	2.9928851	21	7 17.9	20.3
425380 2010 CZ_{41}	16.4	X	128.64293	212.71463	319.16885	7.67307	0.1373927	0.20871647	2.8146965	21	8 10.6	20.7
425381 2010 CB_{44}	16.7	X	330.97757	108.19221	127.28339	2.72829	0.1968655	0.18204419	3.0833169	21	3 5.3	20.6
425382 2010 CA_{45}	16.2	X	291.47826	113.46846	164.56908	6.25585	0.1076989	0.16985393	3.2291309	21	3 20.4	20.7
425383 2010 CR_{47}	16.5	X	47.38392	34.02023	137.68640	11.29539	0.1613592	0.17739277	3.1369826	21	5 5.3	20.5
425384 2010 CQ_{55}	16.1	X	88.33817	178.79856	265.14384	9.93491	0.2159724	0.18744725	3.0237787	21	3 11.7	20.3
425385 2010 CU_{59}	15.9	X	20.48054	228.49236	318.31708	13.63769	0.1672790	0.18474657	3.0531757	21	3 24.8	19.5
425386 2010 CO_{60}	16.2	X	21.75547	17.73285	154.20298	12.62840	0.1205934	0.18267303	3.0762367	21	3 15.8	19.9
425387 2010 CZ_{61}	15.6	X	290.98742	114.93115	150.13962	16.38324	0.1956136	0.17594707	3.1541428	21	2 19.4	20.2
425388 2010 CA_{62}	16.0	X	14.37457	279.76549	349.44163	15.11304	0.2037971	0.19750248	2.9202566	21	7 23.1	19.2
425389 2010 CT_{62}	16.0	X	348.55731	46.27076	153.75156	9.10356	0.0287156	0.17946959	3.1127349	21	3 6.3	20.3
425390 2010 CB_{63}	16.5	X	69.47140	5.66704	107.20448	4.66157	0.2992269	0.18531260	3.0469553	21	4 12.0	20.2
425391 2010 CM_{63}	16.7	X	40.50741	61.84900	109.53490	2.65030	0.0790141	0.18497253	3.0506887	21	4 11.5	20.5
425392 2010 CV_{68}	16.0	X	327.19208	63.71211	171.47623	10.18206	0.1129230	0.17957645	3.1114999	21	3 10.8	20.0
425393 2010 CJ_{71}	16.3	X	0.09783	341.58121	169.67875	10.80438	0.1767922	0.17536758	3.1610875	21	1 6.7	20.1
425394 2010 CU_{76}	16.5	X	122.81940	357.73042	176.75601	15.22938	0.0747313	0.20400477	2.8578702	21	7 30.1	20.9
425395 2010 CM_{78}	16.0	X	4.03277	24.24249	156.47322	12.25864	0.0233927	0.17891797	3.1191296	21	3 2.6	20.2
425396 2010 CC_{79}	16.7	X	48.27898	172.25585	330.32664	3.88729	0.1834204	0.18209923	3.0826956	21	3 24.8	20.2
425397 2010 CC_{81}	15.8	X	51.46409	292.55182	163.44851	16.46501	0.1898037	0.17446794	3.1719448	21	1 30.2	19.5
425398 2010 CD_{82}	16.4	X	116.08934	316.36570	149.21912	3.30089	0.0459125	0.18566966	3.0430477	21	4 24.8	20.8
425399 2010 CO_{85}	16.5	X	349.77033	120.48103	134.01135	2.76894	0.1130195	0.19068820	2.9894193	21	5 9.7	20.0
425400 2010 CG_{93}	16.9	X	109.09593	318.15011	145.16554	6.77151	0.2022449	0.18925788	3.0044621	21	5 5.1	21.5
425401 2010 CT_{93}	15.8	X	21.17821	7.74769	154.03326	17.15774	0.1026928	0.17718713	3.1394092	21	3 1.7	19.6
425402 2010 CE_{95}	16.7	X	334.00173	88.30931	117.77810	1.81279	0.0368872	0.17569692	3.1571359	21	2 22.6	21.1
425403 2010 CP_{103}	16.8	X	14.71742	168.47752	2.65564	6.26784	0.0485102	0.17719190	3.1393529	21	3 5.2	21.0
425404 2010 CU_{109}	16.8	X	11.70300	214.06688	357.41844	1.23712	0.1391805	0.18817639	3.0159626	21	4 17.1	20.0
425405 2010 CR_{115}	16.7	X	187.38676	349.00114	98.21943	3.23214	0.0281037	0.20391691	2.8586910	21	6 23.6	20.8
425406 2010 CR_{125}	16.4	X	83.42977	291.40646	161.34082	15.99050	0.2485723	0.18095788	3.0956443	21	3 29.9	20.6
425407 2010 CS_{138}	16.0	X	340.44694	100.62122	137.93941	10.64749	0.0567229	0.18907353	3.0064147	21	4 12.6	20.1
425408 2010 CS_{141}	15.5	X	355.37624	195.00399	359.76381	19.86010	0.1699191	0.18033161	3.1028073	21	3 1.7	19.2
425409 2010 CN_{142}	15.7	X	41.12029	179.73262	330.93304	22.67774	0.0668945	0.18212238	3.0824343	21	3 8.5	19.8
425410 2010 CT_{153}	17.8	X	96.56802	127.06716	349.60785	19.72247	0.0631446	0.36024036	1.9561754	21	3 19.2	19.4
425411 2010 CA_{154}	16.9	X	198.19505	295.95031	152.43079	7.39177	0.0788828	0.20299773	2.8673141	21	7 5.9	21.2
425412 2010 CS_{157}	16.0	X	281.23441	103.26218	163.73601	15.97827	0.1891850	0.17333892	3.1857033	21	2 11.4	21.0
425413 2010 CC_{160}	16.7	X	79.64018	295.56061	183.50331	11.14828	0.1702537	0.18292534	3.0734074	21	4 13.8	20.7
425414 2010 CL_{161}	16.8	X	111.82314	159.64070	301.08358	11.22212	0.1122330	0.19587211	2.9364389	21	4 14.6	21.3
425415 2010 CT_{161}	16.5	X	16.97427	273.91620	246.86739	0.19927	0.1386608	0.17549486	3.1595588	21	2 20.6	20.2
425416 2010 CV_{161}	16.1	X	32.28606	235.82760	335.41255	9.23169	0.0546966	0.18990037	2.9976816	21	5 14.8	20.2
425417 2010 CM_{164}	15.7	X	253.87256	161.63408	136.31703	21.85687	0.1437281	0.18226512	3.0808248	21	2 27.7	20.6
425418 2010 CE_{165}	16.5	X	33.29645	45.53132	158.34150	10.05965	0.2115106	0.18929744	3.0040436	21	5 26.4	19.8
425419 2010 CS_{181}	16.5	X	324.36671	245.07898	135.09192	6.80269	0.0369119	0.21917729	2.7244092	21	9 26.7	20.0
425420 2010 CQ_{185}	15.9	X	71.44608	331.77917	120.42152	5.16923	0.1266731	0.18095717	3.0956524	21	2 20.8	19.8
425421 2010 CR_{185}	16.2	X	49.23800	39.16451	153.76422	5.46328	0.0759517	0.18875656	3.0097795	21	5 22.4	20.1
425422 2010 CY_{218}	15.8	X	188.97133	265.00798	115.77957	11.14569	0.0448896	0.17276451	3.1927607	21	4 9.6	20.7
425423 2010 DZ	16.9	X	64.55503	302.89235	332.71773	3.96396	0.0798778	0.21825142	2.7321089	21	9 30.6	20.6
425424 2010 DP_2	16.5	X	27.73223	192.33888	330.54552	6.72137	0.0657795	0.18562382	3.0435487	21	3 9.2	20.3
425425 2010 DU_8	16.0	X	3.43415	39.53577	169.49608	9.82676	0.0897318	0.18238772	3.0794441	21	4 4.3	19.9
425426 2010 DE_{12}	15.7	X	60.69210	160.79653	70.93487	9.25489	0.1526795	0.20023937	2.8935861	21	8 12.8	19.6
425427 2010 DW_{21}	15.1	X	83.27945	265.66764	135.66808	25.51100	0.0858006	0.17358045	3.1827474	21	1 2.9	19.7
425428 2010 DL_{38}	16.4	X	350.25518	239.43292	335.51745	12.01363	0.0712193	0.18571679	3.0425328	21	3 18.7	20.4
425429 2010 DT_{42}	16.2	X	181.34695	176.48156	176.52966	9.49216	0.0649278	0.17463190	3.1699591	21	2 21.2	21.0
425430 2010 DJ_{44}	16.1	X	108.55941	252.82641	172.91179	11.76701	0.0909845	0.17695916	3.1421049	21	3 2.8	20.6
425431 2010 DJ_{45}	16.1	X	78.34060	191.92836	331.18584	9.63620	0.0499905	0.19121968	2.9838775	21	5 15.7	20.4
425432 2010 DH_{49}	18.4	X	137.65526	138.40970	350.97970	18.12179	0.0492594	0.37204803	1.9145647	21	6 13.2	21.0
425433 2010 DL_{49}	16.1	X	58.03214	115.76652	349.96657	10.05491	0.0900616	0.17384958	3.1794618	21	2 16.6	20.2
425434 2010 DO_{51}	15.9	X	322.21463	126.85563	142.04538	14.56491	0.2333344	0.17246921	3.1964040	21	4 3.5	20.1
425435 2010 DU_{56}	16.1	X	343.76534	109.44966	138.71465	24.99143	0.3662213	0.17311608	3.1884365	21	3 24.3	19.6
425436 2010 DY_{57}	16.7	X	252.75883	288.82319	83.67185	6.65219	0.1755076	0.22007001	2.7170365	21	5 21.2	20.8
425437 2010 DA_{74}	16.3	X	223.46028	337.51247	340.18707	8.05026	0.0664506	0.17601268	3.1533589	21	2 24.7	21.1
425438 2010 DK_{76}	15.9	X	281.92416	341.86349	336.41852	8.30678	0.0519012	0.18883535	3.0089423	21	4 29.3	20.2
425439 2010 DS_{76}	17.4	X	240.59526	56.51879	358.15480	20.76315	0.0836057	0.38167735	1.8822261	21	7 21.6	19.9
425440 2010 DJ_{78}	15.8	X	1.84753	56.12714	138.22950	10.72602	0.1692556	0.17854807	3.1234360	21	3 9.9	19.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
425441 2010 EZ_{11}	16.6	X	41.77586	284.72069	197.08310	10.31664	0.2094464	0.17892822	3.1190104	21	2 13.8	20.1
425442 Eberstadt	16.3	X	357.84827	185.25331	77.38692	8.13214	0.2309124	0.18789936	3.0189264	21	5 29.7	19.0
425443 2010 EX_{31}	17.0	X	61.38083	248.09467	356.38655	11.29832	0.0366439	0.20589072	2.8403915	21	8 13.8	20.9
425444 2010 EQ_{33}	16.4	X	349.73346	86.01199	133.48671	2.62414	0.1099220	0.17879705	3.1205356	21	3 25.9	20.3
425445 2010 EC_{35}	16.1	X	4.80852	3.01794	183.64486	9.68072	0.0569559	0.17882428	3.1202188	21	3 7.9	20.1
425446 2010 EJ_{42}	16.5	X	176.34320	345.78006	148.59073	13.73466	0.1101259	0.21022346	2.8012289	21	8 9.6	20.9
425447 2010 EL_{43}	16.5	X	219.71968	86.45151	327.31995	10.46603	0.2996030	0.21449673	2.7638996	21	6 1.9	21.7
425448 2010 EA_{45}	16.1	X	348.39185	75.52458	128.18332	13.00493	0.0951145	0.18149330	3.0895530	21	3 6.8	20.1
425449 2010 EL_{45}	16.2	X	11.05761	34.94497	125.20331	4.57088	0.0724250	0.17333551	3.1857451	21	2 13.9	20.4
425450 2010 EV_{45}	19.5	X	153.24559	118.26794	125.81627	7.93564	0.3705411	0.39169026	1.8500105	21	12 15.5	22.7
425451 2010 EX_{45}	18.3	X	148.73957	295.35350	186.26489	21.36973	0.1182043	0.37444945	1.9063702	21	6 24.2	21.3
425452 2010 ED_{46}	15.5	X	348.36764	299.79737	309.94140	11.67078	0.1117998	0.18808976	3.0168887	21	4 24.4	19.5
425453 2010 ED_{67}	16.4	X	44.82799	26.84450	151.15825	7.65585	0.1153486	0.18582955	3.0413019	21	5 1.6	20.2
425454 2010 EO_{67}	17.7	X	22.76771	170.89189	8.82443	19.56812	0.0512474	0.35392786	1.9793665	21	3 2.8	19.6
425455 2010 EU_{67}	16.5	X	24.49173	169.16688	11.43867	17.53430	0.1434422	0.17933216	3.1143249	21	3 31.5	20.0
425456 2010 EJ_{71}	17.2	X	74.71252	342.11742	148.19496	0.12195	0.1085651	0.18383167	3.0632974	21	4 10.7	21.2
425457 2010 EE_{77}	16.7	X	30.21010	121.91939	52.30333	1.85998	0.0976425	0.17772685	3.1330502	21	3 31.8	20.5
425458 2010 ET_{78}	16.2	X	329.21896	215.68730	12.96244	8.92548	0.0586839	0.17851428	3.1238301	21	3 14.6	20.4
425459 2010 EL_{88}	16.5	X	149.75476	225.89595	319.05752	12.70339	0.1454138	0.21912255	2.7248630	21	9 12.8	21.1
425460 2010 EU_{91}	16.1	X	306.57630	121.89947	151.59631	9.54799	0.1089231	0.17947144	3.1127135	21	4 3.2	20.4
425461 2010 EN_{92}	16.2	X	272.99952	143.28366	166.40392	9.58746	0.0738397	0.18719850	3.0264568	21	4 10.2	20.5
425462 2010 EQ_{92}	16.6	X	29.44399	97.61013	144.40638	3.53110	0.1728589	0.19177199	2.9781457	21	7 5.4	19.8
425463 2010 EO_{93}	16.4	X	317.97348	132.06065	132.94172	3.10858	0.1551708	0.18259838	3.0770752	21	3 30.4	20.3
425464 2010 EC_{96}	16.5	X	107.50703	39.79569	11.17059	8.48404	0.1030315	0.17400601	3.1775560	21	2 17.7	21.0
425465 2010 EV_{98}	15.8	X	84.70607	93.59434	17.67735	26.01853	0.2208039	0.18138124	3.0908253	21	4 14.1	20.1
425466 2010 EY_{100}	15.7	X	195.27288	187.30471	173.64726	27.84490	0.1172471	0.17974359	3.1095707	21	3 18.6	20.5
425467 2010 EB_{101}	16.8	X	163.73083	311.89176	163.10685	6.50030	0.0204881	0.19974302	2.8983776	21	6 30.1	21.0
425468 2010 EK_{106}	17.3	X	193.40135	97.03329	23.74326	21.77865	0.0339931	0.38134800	1.8833097	21	9 8.4	19.6
425469 2010 EX_{106}	16.6	X	56.03933	62.78721	98.39045	4.14297	0.1524229	0.18463114	3.0544480	21	4 30.8	20.3
425470 2010 EG_{107}	16.8	X	34.01843	265.59876	279.21447	0.82144	0.1899416	0.18170305	3.0871749	21	4 26.3	19.9
425471 2010 EU_{108}	16.2	X	25.53542	112.47376	35.75872	11.72445	0.1543411	0.17159776	3.2072167	21	2 26.4	20.1
425472 2010 EE_{110}	16.0	X	60.58116	107.88854	347.94020	3.99823	0.1090470	0.17110118	3.2134191	21	2 9.1	20.0
425473 2010 EG_{112}	16.1	X	46.06852	144.43430	10.35827	9.71735	0.0422835	0.17568071	3.1573302	21	3 26.8	20.4
425474 2010 EU_{125}	16.1	X	45.96156	13.53598	137.76294	18.51698	0.2225458	0.18152402	3.0892044	21	4 14.9	19.8
425475 2010 EN_{126}	15.6	X	39.33993	84.09957	82.11639	11.41670	0.0793078	0.18018010	3.1045465	21	4 8.5	19.8
425476 2010 EY_{127}	15.5	X	50.79941	84.27373	38.16905	25.82393	0.2517033	0.17500439	3.1654594	21	3 28.0	19.3
425477 2010 ET_{135}	16.5	X	353.81913	220.66619	32.59052	3.47535	0.2051384	0.18211928	3.0824694	21	5 7.9	19.5
425478 2010 EC_{142}	16.0	X	335.37142	250.85357	10.47314	7.32401	0.0525563	0.18461543	3.0546214	21	4 29.6	20.1
425479 2010 FO_{4}	15.7	X	264.11602	264.17833	8.76178	15.83099	0.0771771	0.17051104	3.2208294	21	2 20.7	20.6
425480 2010 FF_{5}	16.1	X	111.44547	128.15648	347.11498	9.83897	0.0257414	0.18635623	3.0355690	21	4 23.1	20.5
425481 2010 FK_{10}	16.0	X	313.41284	147.94295	96.73223	4.17490	0.0533742	0.17496015	3.1659930	21	3 15.2	20.4
425482 2010 FH_{12}	16.3	X	122.14565	93.87334	353.51407	8.08195	0.0484357	0.18213709	3.0822684	21	4 6.8	20.6
425483 2010 FA_{18}	15.5	X	239.19390	300.60935	358.17793	26.23606	0.2122580	0.17123804	3.2117068	21	2 20.6	21.1
425484 2010 FQ_{19}	16.3	X	148.98891	74.65937	21.80643	9.98375	0.0428273	0.19167920	2.9791067	21	5 18.6	20.7
425485 2010 FP_{46}	15.6	X	321.13741	72.10887	88.23898	16.90220	0.0971404	0.17348190	3.1839527	21	—	—
425486 2010 FV_{47}	16.5	X	28.24661	80.20121	117.21461	2.18674	0.1424070	0.18293697	3.0732772	21	4 30.3	19.9
425487 2010 FM_{54}	16.1	X	67.68873	82.44478	74.76926	11.39219	0.0622157	0.18600716	3.0393656	21	5 2.4	20.2
425488 2010 FP_{90}	15.9	X	292.38131	250.58787	0.61818	14.79395	0.1662281	0.17199938	3.2022222	21	2 13.8	20.8
425489 2010 FW_{93}	16.7	X	71.59281	289.66811	188.18639	7.83680	0.2069416	0.18097438	3.0954562	21	4 5.5	20.6
425490 2010 GF_{24}	16.5	X	359.13515	178.35646	356.77523	4.18665	0.0640425	0.17371624	3.1810886	21	2 16.4	20.6
425491 2010 GL_{25}	15.4	X	321.42382	170.92920	90.32359	11.81063	0.1865569	0.17502865	3.1651669	21	4 1.3	19.7
425492 2010 GN_{27}	15.7	X	36.58990	0.38026	204.49001	17.22124	0.1294713	0.18128711	3.0918952	21	5 24.3	19.6
425493 2010 GG_{31}	16.7	X	27.67046	57.22750	146.61930	9.65814	0.1959588	0.18301798	3.0723702	21	5 14.5	20.1
425494 2010 GC_{67}	15.6	X	28.59105	297.99410	227.25585	14.43979	0.1161466	0.17598934	3.1536378	21	3 12.7	19.7
425495 2010 GF_{67}	15.6	X	104.79868	339.15240	151.83171	13.79037	0.1823846	0.18909684	3.0061676	21	6 1.9	20.3
425496 2010 GF_{98}	16.6	X	37.98501	77.19793	105.18778	8.33326	0.2435531	0.17979257	3.1090060	21	5 11.1	19.9
425497 2010 GK_{101}	16.5	X	330.41950	129.97862	102.38580	6.55834	0.0803537	0.17189010	3.2035793	21	3 20.5	20.8
425498 2010 GZ_{105}	15.9	X	310.27293	244.46955	60.04353	11.32179	0.2036843	0.17989429	3.1078339	21	5 2.8	20.0
425499 2010 GS_{110}	16.4	X	14.59369	129.77735	165.25495	9.40958	0.1145634	0.19631092	2.9320616	21	8 15.6	19.8
425500 2010 GU_{124}	16.7	X	73.10840	49.36973	198.27394	16.97704	0.0800691	0.20153348	2.8811857	21	9 1.3	20.9
425501 2010 GA_{125}	16.0	X	328.27618	230.51277	92.15309	12.95055	0.0528995	0.19092678	2.9869285	21	7 11.4	19.9
425502 2010 GH_{139}	16.9	X	89.36184	79.96593	25.24121	1.20532	0.2085038	0.18364442	3.0653793	21	4 13.4	21.1
425503 2010 GR_{146}	16.2	X	339.85919	120.53528	123.05353	20.68776	0.3418609	0.17400491	3.1775694	21	3 14.5	19.9
425504 2010 GT_{171}	15.8	X	208.26708	276.72813	83.22164	8.78008	0.0772070	0.17968239	3.1102767	21	4 3.6	20.6
425505 2010 GW_{171}	15.9	X	23.22954	114.96250	70.14037	11.13551	0.0638517	0.18014662	3.1049311	21	4 7.7	20.1
425506 2010 HB_{41}	17.2	X	50.21874	30.80275	253.87635	9.04214	0.2126134	0.27857271	2.3219009	21	10 20.7	20.2
425507 2010 HV_{105}	16.2	X	358.83214	15.77243	180.45584	4.30976	0.1184798	0.17116795	3.2125835	21	3 9.6	20.0
425508 2010 HE_{106}	16.1	X	334.81855	222.03487	62.85535	6.04407	0.1503542	0.18217296	3.0818638	21	5 21.7	19.7
425509 2010 JM_{34}	16.0	X	31.55215	13.36067	150.90451	17.14584	0.0820399	0.17283319	3.1919148	21	3 23.7	20.2
425510 2010 JW_{44}	16.1	X	42.93868	342.36552	198.83790	13.14821	0.1775909	0.18426287	3.0585165	21	5 8.7	19.6
425511 2010 JR_{61}	15.7	X	341.95461	114.30702	160.57693	17.75347	0.2259955	0.17033251	3.2230795	21	5 17.9	19.6
425512 2010 JS_{72}	15.9	X	318.59330	142.07474	174.55165	13.04611	0.1875328	0.18240835	3.0792118	21	6 2.9	19.9
425513 2010 JA_{84}	15.4	X	70.26322	34.60924	96.81724	20.65361	0.1121603	0.17173224	3.2055422	21	4 19.0	20.1
425514 2010 JF_{116}	15.3	X	319.34366	17.98654	252.00076	16.23583	0.1615089	0.17658213	3.1465759	21	3 31.1	19.7
425515 2010 JD_{150}	16.2	X	343.55040	68.11497	212.41886	9.00896	0.0548043	0.18502321	3.0501316	21	6 7.7	20.2
425516 2010 JX_{177}	15.6	X	144.81422	16.06112	83.78960	11.38060	0.0648387	0.19003548	2.9962606	21	5 23.9	20.1
425517 2010 KK_{54}	18.1	X	99.57779	26.01106	331.10616	1.33505	0.1945546	0.30011945	2.2093946	21	—	—
425518 2010 LF_{1}	15.7	X	341.41759	343.05115	254.12570	13.78405	0.2055826	0.17200879	3.2021054	21	3 17.5	19.7
425519 2010 LL_{11}	17.3	X	347.31782	203.92716	160.12133	11.07849	0.2311282	0.27184718	2.3600407	21	10 31.9	19.0
425520 2010 LU_{61}	16.5	X	62.61215	15.67289	277.99919	11.76662	0.2038213	0.28482356	2.2878038	21	11 17.2	19.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
425521 2010 LD_{85}	16.0	X	291.98719	216.83676	57.28379	11.23934	0.1742406	0.17579141	3.1560045	21	3 11.8	20.7
425522 2010 MS_{26}	17.9	X	67.61445	48.23234	319.47640	1.22802	0.1574841	0.29191514	2.2505999	21	—	—
425523 2010 MR_{82}	18.0	X	290.92343	205.67162	226.51641	4.37555	0.2037946	0.26809474	2.3820115	21	9 27.9	20.3
425524 2010 MT_{105}	17.6	X	301.73223	157.55014	291.28053	4.44267	0.1986859	0.27436074	2.3456042	21	11 19.7	19.5
425525 2010 NL_{11}	16.0	X	317.27880	270.81452	261.68730	6.99111	0.0607913	0.15842940	3.3825602	21	—	—
425526 2010 NV_{42}	16.3	X	54.98031	318.12558	40.72204	22.98267	0.2383354	0.28616418	2.2806530	21	—	—
425527 2010 ND_{110}	15.8	X	15.45678	340.92930	218.85498	20.85536	0.2334679	0.17834199	3.1258417	21	4 7.5	18.9
425528 2010 OJ	16.9	X	43.56594	265.23863	88.45085	23.28125	0.3112209	0.28197088	2.3032082	21	—	—
425529 2010 OK_{44}	16.6	X	358.49950	354.10738	20.29255	23.23073	0.2217385	0.27278969	2.3546015	21	11 29.9	19.2
425530 2010 OQ_{50}	17.5	X	29.24562	333.35331	12.54057	5.86568	0.2507764	0.27610472	2.3357167	21	12 23.2	20.4
425531 2010 OJ_{68}	17.5	X	337.39018	215.26661	263.04119	8.90942	0.1265904	0.28910887	2.2651403	21	—	—
425532 2010 OY_{95}	16.1	X	29.89065	338.83868	242.02719	9.73774	0.1079861	0.18370725	3.0646804	21	5 31.7	19.8
425533 2010 OO_{96}	16.9	X	299.90196	294.02063	106.98205	13.13582	0.2008731	0.26109988	2.4243664	21	9 3.6	19.5
425534 2010 OZ_{111}	16.2	X	75.74037	340.57363	184.31469	15.45791	0.1482858	0.18369528	3.0648135	21	6 3.4	20.6
425535 2010 OJ_{121}	16.1	X	57.45085	29.47599	163.29126	14.85067	0.1587278	0.18486336	3.0518897	21	6 15.1	20.3
425536 2010 PE_{26}	13.4	X	287.81849	213.43320	230.89018	18.96134	0.0880448	0.08292076	5.2082744	21	9 29.1	20.3
425537 2010 PE_{45}	17.0	X	38.23666	15.62988	318.62280	5.65740	0.2939876	0.27630714	2.3345758	21	12 25.1	20.2
425538 2010 PV_{62}	17.9	X	78.62399	282.77481	98.45588	4.52621	0.1382090	0.29894295	2.2151876	21	—	—
425539 2010 RF_{11}	18.1	X	134.52567	336.67367	341.63520	6.70592	0.1295251	0.29906116	2.2146038	21	—	—
425540 2010 RC_{14}	17.8	X	11.76990	89.14374	343.73313	5.50179	0.1241134	0.29344498	2.2427709	21	—	—
425541 2010 RO_{39}	17.2	X	15.33793	162.44837	246.37948	5.33270	0.1614932	0.28772512	2.2723969	21	—	—
425542 2010 RE_{40}	16.8	X	1.05255	169.66337	181.07884	24.60511	0.1832660	0.27382704	2.3486510	21	11 4.8	19.3
425543 2010 RM_{51}	17.7	X	45.46539	23.84737	6.26391	5.76852	0.1381502	0.28979915	2.2615419	21	—	—
425544 2010 RL_{55}	17.8	X	45.52885	160.24656	217.83529	3.43478	0.1789228	0.28969751	2.2620709	21	—	—
425545 2010 RG_{59}	17.4	X	327.94245	168.16867	222.60790	5.77366	0.1792498	0.27045646	2.3681242	21	10 18.5	19.1
425546 2010 RE_{67}	17.2	X	67.53537	334.50547	57.16271	7.09779	0.1216783	0.29561503	2.2317817	21	—	—
425547 2010 RK_{87}	18.0	X	111.23828	54.98451	328.03973	5.66512	0.1726157	0.30559934	2.1829030	21	—	—
425548 2010 RD_{103}	17.8	X	351.38079	130.90734	197.97675	4.69562	0.1673493	0.26456483	2.4031524	21	8 30.0	19.8
425549 2010 RM_{103}	18.2	X	355.67061	52.60234	355.33921	5.64791	0.1510345	0.28040813	2.3117577	21	—	—
425550 2010 RA_{104}	18.4	X	335.91990	178.15573	262.72118	0.53950	0.1596598	0.28187242	2.3037446	21	—	—
425551 2010 RM_{113}	17.8	X	140.16250	56.47798	238.15321	5.29486	0.1927796	0.29600054	2.2298435	21	—	—
425552 2010 RH_{115}	18.2	X	75.12866	138.75126	221.61559	4.66796	0.0789553	0.29101366	2.2552454	21	—	—
425553 2010 RS_{115}	17.7	X	154.49089	271.13283	336.58142	7.44877	0.0829529	0.28782358	2.2718787	21	12 18.9	21.0
425554 2010 RJ_{119}	18.1	X	129.17066	174.62817	165.14668	3.06307	0.1611742	0.30256984	2.1974498	21	—	—
425555 2010 RU_{120}	17.5	X	61.08632	22.75598	297.19772	4.70479	0.1489511	0.28232472	2.3012835	21	12 14.2	20.5
425556 2010 RY_{125}	18.0	X	358.65351	350.00776	54.75242	3.34596	0.1176478	0.28196225	2.3032553	21	—	—
425557 2010 RU_{136}	18.7	X	135.98711	76.90408	267.11960	4.33981	0.2148000	0.30767733	2.1730634	21	—	—
425558 2010 RK_{139}	18.2	X	326.19613	174.42117	222.47725	2.03553	0.2252149	0.27247709	2.3564020	21	10 24.9	19.3
425559 2010 RS_{143}	17.9	X	61.56939	191.89450	202.29627	7.01536	0.1833721	0.29454379	2.2371896	21	—	—
425560 2010 RJ_{149}	17.8	X	311.58364	36.18652	341.36311	6.17200	0.1248881	0.26491208	2.4010518	21	8 27.9	20.1
425561 2010 RB_{152}	17.8	X	279.56160	67.64955	19.11873	1.75153	0.1456584	0.27049794	2.3678821	21	10 11.5	20.4
425562 2010 RR_{153}	18.1	X	39.87794	165.82076	243.17304	4.73294	0.1352477	0.29199376	2.2501959	21	—	—
425563 2010 RH_{165}	17.7	X	105.34363	344.63612	22.80377	5.77850	0.1775572	0.30031743	2.2084235	21	—	—
425564 2010 RO_{167}	17.8	X	296.10544	249.83905	146.46450	2.67503	0.2205708	0.26380960	2.4077367	21	8 11.2	20.3
425565 2010 RX_{171}	17.6	X	293.34868	240.55300	192.77092	2.68070	0.1703133	0.26891554	2.3771620	21	10 12.0	19.9
425566 2010 RV_{179}	18.1	X	346.48705	74.15149	297.61229	1.24026	0.1991468	0.27228685	2.3574995	21	11 3.2	19.6
425567 2010 SD_{9}	17.9	X	356.69595	71.73038	0.46011	5.13453	0.1755361	0.28659637	2.2783596	21	—	—
425568 2010 SV_{13}	18.2	X	17.50272	42.10704	357.11797	4.53317	0.1582343	0.28545546	2.2844263	21	—	—
425569 2010 SO_{19}	17.8	X	150.47564	275.92001	31.17036	7.38548	0.1179332	0.29843362	2.2177073	21	—	—
425570 2010 SV_{34}	17.7	X	3.82311	257.68773	89.24600	3.12436	0.2092864	0.27184162	2.3600729	21	11 5.7	19.6
425571 2010 SL_{35}	17.6	X	349.37122	215.57213	152.62321	2.63748	0.2468438	0.27033390	2.3688399	21	11 11.8	19.1
425572 2010 TZ	17.5	X	81.27538	242.31983	97.85416	5.46579	0.2085507	0.29053924	2.2576997	21	—	—
425573 2010 TX_{5}	17.9	X	51.44821	2.77850	17.90594	7.17656	0.1026781	0.28989340	2.2610517	21	—	—
425574 2010 TK_{23}	18.3	X	268.49561	53.38646	24.67894	2.62447	0.1601084	0.26339153	2.4102838	21	9 9.1	21.2
425575 2010 TT_{23}	18.7	X	193.37933	280.62787	23.68419	4.43799	0.1751466	0.31059722	2.1594227	21	—	—
425576 2010 TT_{38}	17.7	X	297.27047	184.50026	239.99427	2.44576	0.2019528	0.26725850	2.3869777	21	9 29.2	19.9
425577 2010 TL_{59}	18.3	X	14.48364	83.07625	307.74792	4.94838	0.1867415	0.28118715	2.3074860	21	—	—
425578 2010 TV_{90}	17.8	X	20.00749	353.91854	28.33539	4.95863	0.1240354	0.28209865	2.3025127	21	—	—
425579 2010 TP_{92}	17.4	X	31.10911	180.26008	228.87743	6.91196	0.1654280	0.28981614	2.2614535	21	—	—
425580 2010 TK_{99}	18.1	X	18.55437	36.73060	28.93146	3.33324	0.1063098	0.29106318	2.2549896	21	—	—
425581 2010 TB_{106}	18.7	X	310.53074	137.00744	299.91277	1.54766	0.1696872	0.27343288	2.3509076	21	11 23.8	20.3
425582 2010 TZ_{107}	18.2	X	264.13321	255.52161	190.68546	2.11914	0.0946130	0.26599399	2.3945367	21	9 24.2	20.8
425583 2010 TC_{114}	18.4	X	282.31523	206.04120	235.15250	0.65094	0.1597512	0.26739361	2.3861736	21	10 4.8	20.7
425584 2010 TH_{116}	18.5	X	158.07512	141.41528	175.59437	0.95716	0.1962498	0.30414683	2.1898474	21	—	—
425585 2010 TX_{128}	18.7	X	20.11064	93.93155	294.77661	1.83329	0.2202948	0.28475703	2.2881601	21	—	—
425586 2010 TU_{141}	17.2	X	54.04388	298.83444	325.75315	5.43317	0.1053973	0.25968383	2.4331718	21	9 9.6	20.1
425587 2010 TE_{143}	18.0	X	135.45416	351.66702	321.74382	4.21247	0.1665372	0.29521585	2.2337930	21	—	—
425588 2010 TX_{143}	18.6	X	330.01267	214.10043	289.57195	3.58482	0.0358358	0.29574283	2.2311387	21	—	—
425589 2010 TV_{163}	17.8	X	296.55375	234.38826	190.00270	2.14311	0.1552508	0.26644972	2.3918055	21	10 6.2	19.9
425590 2010 TD_{168}	18.5	X	16.24578	3.56353	16.01147	1.31302	0.1994272	0.27872361	2.3210627	21	—	—
425591 2010 TM_{169}	17.7	X	259.29874	252.16913	283.30185	3.59846	0.0801914	0.28630195	2.2799212	21	—	—
425592 2010 TS_{170}	18.4	X	63.71429	103.22369	242.28928	2.25230	0.2413199	0.28580888	2.2825427	21	—	—
425593 2010 TD_{171}	17.9	X	349.08799	61.68242	1.94605	7.07465	0.1027069	0.28069916	2.3101595	21	—	—
425594 2010 TV_{176}	17.2	X	67.43837	334.33325	354.67329	7.78962	0.2403088	0.28199152	2.3030959	21	—	—
425595 2010 TK_{180}	17.8	X	93.40926	309.01329	36.55898	5.70401	0.1609118	0.29274569	2.2463411	21	—	—
425596 2010 UP_{9}	18.0	X	65.57295	303.55106	29.94142	3.31097	0.1857585	0.28188227	2.3036909	21	—	—
425597 2010 UP_{13}	17.7	X	343.29375	85.89464	5.01773	2.92530	0.1194879	0.28349734	2.2949332	21	—	—
425598 2010 UP_{17}	18.2	X	314.85633	5.99588	59.52341	2.03765	0.1703200	0.27072445	2.3665612	21	11 15.0	19.9
425599 2010 UJ_{21}	17.4	X	306.45223	213.13905	218.41927	7.47604	0.0735040	0.27159534	2.3614994	21	11 13.8	19.7
425600 2010 UD_{25}	17.8	X	21.28780	164.76003	217.94181	1.75498	0.2129926	0.27666639	2.3325544	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
425601 2010 UN_{25}	16.2	X	270.79627	279.59498	65.56523	15.15470	0.1475585	0.23862052	2.5743298	21	5 9.5	19.8
425602 2010 UA_{45}	18.1	X	316.65218	198.42541	269.52572	5.84381	0.1408174	0.28000479	2.3139772	21	—	—
425603 2010 UH_{48}	17.9	X	75.55230	95.66516	271.54766	4.07636	0.1767829	0.29094106	2.2556205	21	—	—
425604 2010 UA_{54}	17.7	X	140.64909	312.11271	17.71516	4.77674	0.2007331	0.29984693	2.2107331	21	—	—
425605 2010 UG_{54}	18.0	X	18.77986	146.08105	245.33697	4.66733	0.1603994	0.27980479	2.3150797	21	—	—
425606 2010 UM_{70}	17.9	X	323.85783	179.37520	211.10721	4.44288	0.2323336	0.26488663	2.4012056	21	10 3.0	19.2
425607 2010 UN_{70}	17.8	X	13.93805	331.74421	57.36606	4.09837	0.2239623	0.27761006	2.3272654	21	—	—
425608 2010 UG_{75}	17.1	X	291.36645	33.26183	24.11053	14.53100	0.1816487	0.26158169	2.4213886	21	9 17.4	19.7
425609 2010 UW_{91}	17.4	X	314.04837	18.73059	345.18234	5.58541	0.1324790	0.25516324	2.4618258	21	8 10.6	19.9
425610 2010 UQ_{94}	16.4	X	13.10420	336.40619	71.87132	25.82477	0.2071054	0.28413886	2.2914777	21	—	—
425611 2010 UW_{96}	18.0	X	329.36242	161.89687	233.47190	1.30760	0.1965045	0.26779043	2.3838158	21	10 29.7	19.6
425612 2010 VA_{22}	17.7	X	326.67826	222.25683	167.36140	2.22172	0.1834211	0.26490177	2.4011142	21	10 13.7	19.3
425613 2010 VO_{22}	17.7	X	309.00577	165.22688	239.29335	4.61112	0.2150511	0.26275284	2.4141881	21	9 18.3	19.8
425614 2010 VW_{29}	17.5	X	36.51640	6.36153	56.51789	8.40682	0.1740959	0.29218205	2.2492291	21	—	—
425615 2010 VX_{41}	17.8	X	345.66121	19.25675	53.40856	3.02710	0.1866846	0.27723702	2.3293526	21	—	—
425616 2010 VF_{48}	17.9	X	356.90050	323.15104	55.86749	3.37750	0.1877480	0.26901863	2.3765547	21	12 5.3	19.9
425617 2010 VL_{52}	17.7	X	341.30734	285.17485	91.78606	2.27875	0.1997631	0.26728566	2.3868160	21	10 30.5	19.4
425618 2010 VK_{55}	17.7	X	334.07009	251.44093	180.84373	2.47272	0.1718852	0.27514142	2.3411652	21	—	—
425619 2010 VV_{60}	18.2	X	71.93660	21.21944	342.48990	8.00347	0.1343431	0.28843663	2.2686584	21	—	—
425620 2010 VA_{62}	17.4	X	322.66828	176.22880	288.80687	5.88707	0.1537703	0.27817667	2.3241041	21	—	—
425621 2010 VH_{65}	18.2	X	141.59707	81.97767	308.14343	3.39686	0.0866343	0.30805568	2.1712837	21	2 3.6	20.8
425622 2010 VG_{66}	17.7	X	310.50347	271.12904	129.55574	4.02723	0.1649491	0.26461179	2.4028680	21	9 27.7	19.8
425623 2010 VN_{67}	17.0	X	351.27374	158.78304	205.10434	24.84417	0.2232537	0.27137152	2.3627977	21	11 6.5	18.8
425624 2010 VL_{70}	18.0	X	0.59750	38.61891	27.32783	3.07830	0.1396253	0.28089511	2.3090851	21	—	—
425625 2010 VR_{83}	18.4	X	22.76226	46.24254	306.42811	0.62894	0.1991065	0.27182119	2.3601912	21	12 14.2	20.9
425626 2010 VP_{89}	18.1	X	325.53376	34.34399	13.69723	1.53851	0.1647546	0.26696359	2.3887353	21	11 9.8	20.0
425627 2010 VH_{96}	18.3	X	335.10320	196.16708	224.23820	1.47494	0.1860876	0.27059580	2.3673111	21	12 23.8	20.0
425628 2010 VP_{100}	17.5	X	235.80012	294.16792	239.21117	6.38404	0.0436766	0.27494643	2.3422720	21	12 23.0	20.2
425629 2010 VL_{101}	17.9	X	12.52202	155.28136	231.84512	2.39760	0.0867049	0.27490996	2.3424791	21	12 29.2	20.6
425630 2010 VO_{101}	18.1	X	290.92653	239.27883	219.74355	1.86554	0.1468426	0.26835616	2.3804643	21	11 18.5	20.3
425631 2010 VZ_{123}	17.7	X	179.64990	15.78686	265.01134	4.24196	0.1979697	0.29536664	2.2330327	21	—	—
425632 2010 VZ_{126}	17.9	X	255.87395	17.45432	73.00724	3.73303	0.1659074	0.25513045	2.4620367	21	9 8.5	21.1
425633 2010 VW_{127}	17.4	X	281.15895	42.79425	83.04405	8.04153	0.0618276	0.27230342	2.3574039	21	12 20.8	20.1
425634 2010 VJ_{133}	17.3	X	200.77718	327.88004	67.12600	4.95173	0.1801838	0.23371609	2.6102192	21	4 30.1	21.5
425635 2010 VU_{138}	17.8	X	334.78253	214.45173	213.77399	1.87061	0.1882051	0.27386068	2.3484587	21	—	—
425636 2010 VH_{140}	17.6	X	42.79760	310.79457	32.44573	6.49221	0.1646105	0.27690178	2.3312323	21	12 24.0	20.6
425637 2010 VJ_{144}	17.6	X	256.11312	3.57197	180.37787	6.18754	0.0396588	0.28494493	2.2871541	21	—	—
425638 2010 VU_{159}	17.9	X	19.27223	304.76150	101.33924	6.09700	0.1816783	0.27953594	2.3165639	21	—	—
425639 2010 VU_{164}	17.3	X	358.20010	350.99028	40.49305	8.03481	0.1157709	0.27480804	2.3430583	21	12 16.6	19.8
425640 2010 VR_{170}	16.9	X	85.89813	308.21865	243.01334	12.10551	0.2188022	0.23498580	2.6008081	21	7 26.3	20.8
425641 2010 VX_{174}	17.6	X	188.65644	280.19846	222.39351	6.67780	0.1299808	0.25184816	2.4833820	21	9 1.1	21.6
425642 2010 VJ_{175}	18.2	X	35.34221	169.23436	181.02312	2.39919	0.2226979	0.27582114	2.3373173	21	—	—
425643 2010 VS_{184}	17.4	X	52.70659	295.73721	55.81709	6.77569	0.2146045	0.27959380	2.3162443	21	—	—
425644 2010 VD_{185}	18.2	X	23.31757	85.43458	310.63898	4.98792	0.1668592	0.28081893	2.3095026	21	—	—
425645 2010 VF_{192}	18.0	X	314.12901	123.53639	316.68021	3.45137	0.1798874	0.26963208	2.3729487	21	12 5.6	19.8
425646 2010 VJ_{196}	17.9	X	275.85231	177.76843	306.79381	5.42571	0.0477863	0.27337447	2.3512424	21	12 12.6	20.5
425647 2010 VP_{199}	17.3	X	300.01281	265.55329	125.39280	6.90583	0.2391934	0.26053088	2.4278951	21	8 6.9	19.5
425648 2010 VL_{206}	17.7	X	153.61288	265.66326	5.31655	6.68945	0.0951534	0.28467201	2.2886157	21	—	—
425649 2010 VE_{209}	17.8	X	84.78295	353.04180	321.17047	5.97663	0.1213895	0.28047505	2.3113900	21	12 30.0	21.2
425650 2010 VY_{209}	17.7	X	330.76564	112.01177	20.55412	5.45556	0.1016822	0.28843287	2.2686781	21	—	—
425651 2010 WO_{10}	18.0	X	96.25333	315.99572	83.87295	4.46328	0.1048414	0.29923973	2.2137227	21	—	—
425652 2010 WG_{16}	17.3	X	239.81845	183.98415	198.12935	8.68603	0.1690559	0.23961266	2.5672188	21	5 20.3	21.3
425653 2010 WB_{54}	18.1	X	272.90280	106.61599	20.04996	3.14699	0.1697202	0.26742626	2.3859794	21	11 22.0	20.4
425654 2010 WV_{56}	17.5	X	298.15936	271.63111	84.81073	10.44596	0.2269813	0.25127606	2.4871499	21	6 14.7	20.6
425655 2010 WW_{66}	17.9	X	349.05106	351.49180	56.25048	3.60043	0.1683425	0.27200768	2.3591123	21	12 31.6	20.1
425656 2010 XU_{1}	17.7	X	259.88990	281.28307	221.30331	5.78725	0.0509923	0.27157508	2.3616168	21	12 13.5	20.4
425657 2010 XG_{4}	16.3	X	164.88803	241.30393	264.78544	13.92547	0.0797272	0.23687954	2.5869281	21	8 8.4	20.4
425658 2010 XW_{4}	16.7	X	256.80648	281.78197	94.64038	3.34519	0.2008046	0.24200281	2.5502873	21	5 26.3	20.4
425659 2010 XC_{12}	16.8	X	55.33301	84.46569	94.32609	5.17905	0.1488196	0.21716178	2.7412404	21	5 19.7	19.9
425660 2010 XD_{12}	17.4	X	311.21438	119.15333	285.95892	3.11126	0.1685884	0.25692336	2.4505693	21	9 30.1	19.7
425661 2010 XA_{17}	16.4	X	326.11966	29.53972	267.90078	11.45022	0.1188480	0.23143166	2.6273678	21	5 24.2	19.6
425662 2010 XG_{18}	17.4	X	329.09113	330.93478	262.90958	8.14169	0.1199058	0.30364946	2.1922380	21	2 11.9	20.1
425663 2010 XX_{18}	17.4	X	230.96433	255.44601	135.01898	5.66824	0.1400583	0.23716455	2.5848551	21	5 24.7	21.5
425664 2010 XA_{37}	17.8	X	224.91404	178.44455	330.27930	2.56603	0.1350409	0.25580959	2.4576772	21	10 19.7	21.3
425665 2010 XT_{49}	17.8	X	133.44121	18.21053	293.83287	2.91566	0.2795015	0.29089282	2.2558699	21	—	—
425666 2010 XS_{61}	17.4	X	359.27392	125.99474	255.37475	5.72776	0.1377004	0.27089908	2.3655440	21	12 6.6	19.6
425667 2010 XQ_{63}	17.3	X	235.48046	316.27486	75.25086	7.54126	0.1080284	0.23700318	2.5860283	21	6 1.4	21.1
425668 2010 XY_{65}	18.1	X	327.16267	156.65926	283.59231	2.32255	0.1485878	0.26902583	2.3765123	21	—	—
425669 2010 XV_{66}	17.7	X	336.16105	245.60861	155.54226	3.03661	0.1856929	0.26717656	2.3874657	21	11 25.4	19.4
425670 2010 XP_{67}	18.0	X	245.38978	20.98028	131.44234	3.05392	0.1170696	0.26669402	2.3903447	21	11 25.7	20.8
425671 2010 XX_{79}	16.1	X	169.29820	204.51290	281.43525	27.44562	0.1925643	0.23379355	2.6096426	21	7 19.9	20.6
425672 2010 XA_{80}	17.8	X	297.30734	335.03107	65.37764	6.36625	0.2368898	0.25876519	2.4389271	21	8 19.9	20.3
425673 2010 XN_{88}	16.6	X	143.12803	13.31495	264.96524	23.76093	0.1659590	0.28743105	2.2739466	21	—	—
425674 2010 YR_{3}	16.3	X	45.30823	67.14866	308.70134	22.44449	0.2120836	0.27460204	2.3442299	21	—	—
425675 2010 YJ_{4}	17.4	X	181.85301	216.23664	49.58220	8.41763	0.2039851	0.27308427	2.3529079	21	—	—
425676 2011 AC_{2}	17.7	X	234.98007	90.40669	55.60325	3.23409	0.1581464	0.25705724	2.4497183	21	10 26.8	20.9
425677 2011 AQ_{5}	16.9	X	213.87737	129.64454	305.77256	10.87658	0.1497464	0.23369149	2.6104023	21	7 3.6	21.1
425678 2011 AG_{19}	17.7	X	330.40619	83.20950	332.76597	6.28819	0.0925321	0.26390774	2.4071397	21	11 28.0	20.3
425679 2011 AH_{21}	17.4	X	121.44190	135.25881	83.96626	5.45982	0.1729076	0.24047233	2.5610967	21	10 9.1	21.5
425680 2011 AL_{21}	16.6	X	241.43734	247.98484	94.53612	7.83684	0.0878099	0.21676047	2.7446228	21	4 12.7	20.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
425681 2011 AV_{21}	16.9	X	230.22200	249.65600	311.96627	6.40693	0.0735137	0.26754630	2.3852656	21	—	—
425682 2011 AA_{30}	17.4	X	209.27572	137.86194	72.71066	2.50626	0.1386861	0.26355087	2.4093122	21	12 22.2	20.5
425683 2011 AW_{30}	17.0	X	186.80467	343.53927	115.48847	8.67092	0.1063751	0.23259799	2.6185774	21	7 7.1	20.9
425684 2011 AK_{46}	17.2	X	260.27750	229.25106	309.27036	5.76339	0.0735473	0.26691816	2.3890063	21	—	—
425685 2011 AJ_{48}	16.4	X	341.73211	36.35116	323.41056	6.50625	0.2649020	0.25551996	2.4595340	21	9 26.2	17.8
425686 2011 AU_{51}	17.4	X	250.87380	63.38275	122.54218	7.19629	0.0736848	0.26681739	2.3896078	21	—	—
425687 2011 AQ_{53}	17.4	X	330.72907	37.17173	90.08268	8.48012	0.1120297	0.27523827	2.3406160	21	—	—
425688 2011 AV_{56}	17.8	X	286.06465	262.75384	222.28418	0.37257	0.1363590	0.26216563	2.4177917	21	12 17.2	20.1
425689 2011 AK_{57}	17.2	X	317.55585	48.92010	279.25400	5.06172	0.0312830	0.23297752	2.6157328	21	7 5.4	20.2
425690 2011 AG_{59}	17.9	X	33.46160	234.06013	130.29982	3.07443	0.1675684	0.26636135	2.3923346	21	—	—
425691 2011 AO_{59}	17.0	X	174.86583	128.65926	295.27484	13.57662	0.0574634	0.22117113	2.7080110	21	5 4.2	21.3
425692 2011 AL_{62}	16.9	X	239.54122	269.28448	94.50531	13.07385	0.0942236	0.22441000	2.6818918	21	5 7.4	21.0
425693 2011 AL_{65}	17.7	X	327.88178	20.76634	3.19752	1.58642	0.1905249	0.25311629	2.4750805	21	10 3.4	19.3
425694 2011 AZ_{66}	17.3	X	342.32005	253.47121	109.08836	3.19727	0.1848547	0.25383203	2.4704255	21	10 5.9	19.2
425695 2011 AY_{72}	16.6	X	247.95347	40.60212	12.99169	12.75448	0.2328547	0.24322440	2.5417410	21	7 2.1	20.8
425696 2011 AZ_{72}	16.5	X	83.31437	165.33809	342.13190	8.95631	0.0792320	0.21806575	2.7336594	21	5 3.7	20.3
425697 2011 AD_{74}	15.9	X	333.50514	272.64156	301.23968	15.53053	0.0771514	0.20573376	2.8418360	21	2 16.2	19.7
425698 2011 AG_{75}	17.5	X	241.99415	140.95295	353.11050	6.71752	0.1951202	0.25489613	2.4635453	21	10 11.7	21.0
425699 2011 AQ_{75}	17.3	X	310.18732	53.43284	60.43024	3.16446	0.1213273	0.26590860	2.3950493	21	—	—
425700 2011 AT_{77}	16.6	X	142.78649	36.41365	114.96365	14.74784	0.1953640	0.23024769	2.6363669	21	8 3.3	21.0
425701 2011 BK_{5}	17.5	X	286.12595	259.22096	123.44922	9.33284	0.2037585	0.24431764	2.5341530	21	7 8.3	20.6
425702 2011 BF_{6}	17.2	X	113.24797	359.18854	115.69265	6.73690	0.0278316	0.21719466	2.7409637	21	4 29.5	21.0
425703 2011 BW_{7}	17.1	X	290.05819	350.04990	117.42802	7.06938	0.0936007	0.26198684	2.4188916	21	12 4.7	19.7
425704 2011 BT_{8}	17.0	X	135.21986	323.67763	105.49227	6.94319	0.0106272	0.21082985	2.7958550	21	3 28.3	20.9
425705 2011 BM_{9}	17.4	X	289.31310	6.39984	77.92509	2.21987	0.1493765	0.25724363	2.4485349	21	10 22.8	20.0
425706 2011 BO_{10}	17.1	X	135.89011	271.82257	303.06204	3.72745	0.2304185	0.23658378	2.5890836	21	10 13.7	21.5
425707 2011 BR_{10}	17.8	X	246.77065	26.13255	163.58001	1.41600	0.1510853	0.26703544	2.3883068	21	—	—
425708 2011 BO_{14}	16.0	X	2.50173	182.89519	123.09642	16.12300	0.1120509	0.23487229	2.6016459	21	8 15.3	18.8
425709 2011 BR_{19}	16.5	X	191.23819	181.35438	314.73256	6.88023	0.1434971	0.23642367	2.5902524	21	8 26.4	20.5
425710 2011 BN_{20}	17.7	X	285.03417	296.27097	95.61674	1.53071	0.1368905	0.24443349	2.5333523	21	7 31.5	20.8
425711 2011 BZ_{22}	16.4	X	112.78075	285.87761	310.77479	27.30357	0.3662093	0.23306812	2.6150548	21	10 15.1	21.8
425712 2011 BS_{23}	16.9	X	55.06322	306.97875	308.33581	6.32424	0.2473185	0.22784672	2.6548553	21	9 16.4	20.4
425713 2011 BK_{24}	19.6	X	64.48265	209.55766	6.00608	8.75623	0.2235540	0.50642919	1.5587994	21	8 27.2	20.2
425714 2011 BH_{27}	17.5	X	296.32610	221.30514	264.15378	1.59928	0.1472885	0.26401033	2.4065161	21	—	—
425715 2011 BJ_{27}	17.7	X	203.88373	142.06106	302.58607	4.41378	0.2690168	0.23363317	2.6108367	21	6 30.4	22.3
425716 2011 BX_{28}	17.1	X	209.72297	255.33608	109.43004	14.80790	0.2751813	0.22055856	2.7130228	21	4 6.5	22.3
425717 2011 BS_{29}	16.8	X	64.06004	65.34259	98.20233	10.33981	0.0817965	0.21452190	2.7636834	21	5 6.2	20.4
425718 2011 BT_{30}	16.5	X	93.54959	190.21010	331.67729	8.51254	0.1367579	0.22010009	2.7167890	21	6 18.8	20.3
425719 2011 BD_{31}	17.8	X	295.15127	81.53367	104.61534	5.79754	0.1336708	0.27813451	2.3243390	21	—	—
425720 2011 BV_{32}	17.7	X	238.14755	134.34894	284.58349	2.29372	0.1188505	0.23497553	2.6008838	21	7 9.6	21.4
425721 2011 BQ_{35}	17.6	X	258.54948	123.55953	310.17830	10.35099	0.1109830	0.24355442	2.5394444	21	8 23.1	21.1
425722 2011 BX_{37}	16.3	X	10.88049	129.48639	162.16091	13.76022	0.1944519	0.22086785	2.7104894	21	8 12.1	19.0
425723 2011 BK_{43}	16.4	X	60.83419	280.62021	296.95208	10.90048	0.1373971	0.22205583	2.7008135	21	7 19.5	19.7
425724 2011 BJ_{45}	16.4	X	123.36443	220.92779	321.88996	12.60655	0.0864901	0.22834664	2.6509791	21	8 15.2	20.0
425725 2011 BH_{51}	16.7	X	234.84359	177.68929	301.87902	8.48752	0.0295168	0.24523164	2.5278524	21	10 2.8	20.3
425726 2011 BQ_{51}	17.1	X	260.60477	113.10137	270.67964	6.94271	0.1052028	0.23024369	2.6363975	21	6 21.3	20.7
425727 2011 BL_{76}	16.9	X	37.95694	322.09785	316.20730	12.22492	0.1130034	0.22955337	2.6416804	21	8 31.4	20.2
425728 2011 BN_{76}	17.1	X	50.88996	101.65300	185.88092	3.78199	0.1607508	0.23498196	2.6008364	21	10 14.5	20.2
425729 2011 BB_{79}	17.8	X	323.25138	46.45104	77.70643	3.30380	0.1796666	0.27323404	2.3520480	21	—	—
425730 2011 BE_{79}	18.1	X	215.89889	157.74464	312.83631	4.72307	0.2400855	0.24253578	2.5465498	21	8 12.5	22.4
425731 2011 BJ_{80}	16.1	X	211.19395	152.48548	304.45247	21.40379	0.0303002	0.23316139	2.6143574	21	8 4.0	19.6
425732 2011 BW_{81}	17.1	X	267.46151	185.15311	237.77751	3.57728	0.2218684	0.24512568	2.5285808	21	8 4.1	20.4
425733 2011 BJ_{82}	16.8	X	148.73609	128.19792	69.71980	3.69748	0.0427300	0.24652124	2.5190289	21	10 4.7	20.2
425734 2011 BM_{82}	17.2	X	183.70063	123.05554	76.64129	5.38158	0.0880290	0.25483113	2.4639642	21	11 14.7	20.6
425735 2011 BP_{82}	17.4	X	243.15608	179.05765	349.69399	5.54923	0.0922938	0.26315939	2.4117010	21	12 16.7	20.4
425736 2011 BU_{83}	16.5	X	90.33683	345.73812	266.58201	7.37686	0.1059906	0.24127146	2.5554384	21	10 6.3	20.2
425737 2011 BU_{88}	17.0	X	166.04945	107.73141	172.35492	9.48184	0.0684803	0.26562045	2.3967811	21	—	—
425738 2011 BQ_{90}	17.4	X	184.21430	225.74862	268.58174	3.58462	0.0536098	0.23748880	2.5825017	21	8 19.9	21.1
425739 2011 BB_{95}	17.6	X	271.23979	114.84394	328.96165	5.57624	0.0794433	0.25177294	2.4838766	21	9 29.8	20.7
425740 2011 BZ_{96}	16.3	X	202.36633	24.17462	314.66976	11.12030	0.1178806	0.20408167	2.8571522	21	2 21.9	20.9
425741 2011 BB_{97}	17.2	X	92.41916	260.20084	340.21167	2.61391	0.1132128	0.23916476	2.5704229	21	9 26.9	20.8
425742 2011 BG_{101}	17.8	X	234.08737	132.68415	335.79624	7.15995	0.1846847	0.24690536	2.5164156	21	9 1.5	21.6
425743 2011 BH_{101}	17.7	X	218.49224	142.49359	37.37332	1.97676	0.1310983	0.25783677	2.4447783	21	11 23.2	20.9
425744 2011 BL_{101}	17.0	X	107.37606	104.35207	95.89206	6.64723	0.0621804	0.23370119	2.6103301	21	8 18.8	20.6
425745 2011 BW_{102}	17.8	X	226.54292	308.53865	172.84289	3.48636	0.1582999	0.24565010	2.5249808	21	9 13.2	21.2
425746 2011 BH_{103}	17.1	X	90.88226	37.93971	106.93616	5.81004	0.0999760	0.21463963	2.7626727	21	5 19.4	20.8
425747 2011 BL_{106}	18.1	X	215.62409	328.63781	166.07894	3.09470	0.1096223	0.24412362	2.5354955	21	9 24.0	21.5
425748 2011 BH_{109}	17.7	X	288.93431	113.99447	252.57296	3.65336	0.0771721	0.22980659	2.6397395	21	7 10.1	21.1
425749 2011 BZ_{116}	17.8	X	281.48769	24.43273	37.95566	3.22748	0.1525805	0.25183880	2.4834435	21	9 7.1	20.6
425750 2011 BO_{118}	17.3	X	197.19213	122.96068	12.47100	5.92238	0.0847551	0.24299413	2.5433465	21	9 7.5	20.9
425751 2011 BW_{154}	17.2	X	141.41842	232.63712	170.60598	2.17380	0.0701707	0.20332189	2.8642656	21	3 7.9	21.1
425752 2011 BY_{160}	17.7	X	303.34730	233.70997	233.02262	1.94364	0.1395601	0.25991586	2.4317235	21	12 22.1	19.7
425753 2011 BR_{161}	16.7	X	157.76375	175.94077	272.11930	8.58311	0.1800188	0.22058725	2.7127875	21	5 26.9	21.1
425754 2011 CP	16.3	X	66.28740	255.34712	343.55367	17.17733	0.1216629	0.22783456	2.6549498	21	8 26.3	19.7
425755 2011 CP_{4}	21.2	X	227.60555	159.92255	147.98910	9.46393	0.8703160	1.13216427	0.9117234	21	—	—
425756 2011 CQ_{5}	17.6	X	295.09839	53.89211	103.33305	3.55854	0.1627801	0.27108369	2.3644699	21	—	—
425757 2011 CF_{13}	17.6	X	228.78094	4.57538	92.63353	7.33473	0.2135219	0.24250217	2.5467851	21	8 11.4	21.7
425758 2011 CU_{13}	16.6	X	94.06323	60.83260	118.98147	15.92831	0.1377874	0.22276326	2.6950925	21	7 13.4	20.4
425759 2011 CV_{14}	18.1	X	232.43225	119.73072	312.50323	1.56147	0.1440738	0.23690866	2.5867161	21	7 18.4	21.8
425760 2011 CM_{17}	17.7	X	297.90475	34.94501	75.89853	3.38225	0.1491457	0.26194642	2.4191404	21	12 17.4	19.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
425761 2011 CB_{18}	17.2	X	143.11150	24.05400	116.84981	4.82163	0.2028771	0.22701962	2.6612997	21	7 20.9	21.6
425762 2011 CS_{18}	16.3	X	120.73030	55.61999	135.39744	16.50741	0.1405871	0.23098570	2.6307484	21	8 29.9	20.3
425763 2011 CU_{18}	17.8	X	263.88138	68.87112	98.46282	1.52177	0.1686199	0.26440150	2.4041420	21	—	—
425764 2011 CD_{20}	17.7	X	232.59349	110.96207	344.64050	7.28433	0.1662194	0.24198314	2.5504255	21	8 17.4	21.4
425765 2011 CM_{22}	17.3	X	171.45905	238.94218	317.93490	13.46405	0.1749833	0.24476614	2.5310564	21	10 16.7	21.7
425766 2011 CT_{24}	16.7	X	254.79274	59.92540	19.84599	11.66600	0.0886318	0.24430836	2.5342172	21	9 6.3	20.1
425767 2011 CD_{26}	18.0	X	246.07318	76.87377	128.84055	5.48845	0.1693947	0.26829483	2.3808271	21	—	—
425768 2011 CJ_{26}	17.3	X	170.40745	52.73651	352.15494	5.70801	0.0725340	0.21243525	2.7817515	21	4 9.2	21.4
425769 2011 CC_{30}	17.1	X	206.32951	65.64736	124.47940	7.90606	0.0719281	0.25720436	2.4487841	21	12 1.3	20.6
425770 2011 CQ_{31}	17.8	X	266.25003	251.92525	155.79005	9.21442	0.1592283	0.23908447	2.5709984	21	7 22.2	21.4
425771 2011 CB_{32}	17.1	X	156.39186	289.61871	310.26350	5.39614	0.1231567	0.25587995	2.4572266	21	12 3.6	20.8
425772 2011 CY_{36}	17.5	X	104.58613	286.89164	318.97844	5.47768	0.1526207	0.24125677	2.5555421	21	10 19.3	21.5
425773 2011 CJ_{38}	17.0	X	285.29015	1.89973	120.35353	8.53749	0.0498063	0.26141861	2.4223955	21	12 20.9	20.0
425774 2011 CD_{40}	16.0	X	234.04547	140.91124	119.41262	11.91480	0.1255131	0.18469585	3.0537346	21	—	—
425775 2011 CO_{40}	16.5	X	288.58070	138.67521	131.47760	15.64892	0.1203002	0.20342591	2.8632891	21	3 3.0	20.7
425776 2011 CP_{41}	16.3	X	202.22305	125.26429	353.32286	31.80671	0.2364127	0.23338391	2.6126954	21	8 24.3	21.1
425777 2011 CL_{47}	17.5	X	69.79667	52.83279	192.24549	1.99046	0.0727878	0.23334375	2.6129952	21	8 29.0	20.9
425778 2011 CP_{51}	16.4	X	359.88313	325.19700	326.51647	12.18861	0.1656190	0.22590995	2.6700075	21	7 21.5	19.0
425779 2011 CY_{55}	17.2	X	249.60409	61.26075	325.46879	9.88996	0.2227154	0.23126252	2.6286487	21	5 28.3	21.5
425780 2011 CC_{56}	17.6	X	207.62156	135.48082	330.71260	3.17581	0.1302858	0.23637666	2.5905958	21	8 6.8	21.4
425781 2011 CM_{58}	17.0	X	161.57082	308.51992	145.54583	5.74647	0.1342300	0.22215579	2.7000032	21	6 6.3	21.2
425782 2011 CL_{68}	17.4	X	312.40713	171.50561	269.05382	5.55969	0.0963982	0.26059625	2.4274890	21	12 2.4	19.7
425783 2011 CC_{71}	17.6	X	198.78928	94.08296	41.67485	2.66975	0.1772187	0.23696414	2.5863123	21	9 3.1	21.6
425784 2011 CP_{71}	16.1	X	169.46281	167.08611	341.60383	28.55998	0.0453960	0.23160970	2.6260212	21	8 27.1	19.8
425785 2011 CM_{72}	16.7	X	88.18077	15.31939	145.76382	9.27888	0.1351618	0.21548627	2.7554317	21	6 11.6	20.6
425786 2011 CW_{74}	17.5	X	307.07362	71.69255	48.58237	3.36153	0.1380678	0.26519445	2.3993472	21	—	—
425787 2011 CD_{76}	17.4	X	238.83441	141.35242	46.49122	7.50206	0.2927361	0.25697375	2.4502489	21	12 4.4	20.7
425788 2011 CO_{78}	18.0	X	222.80101	290.63876	169.90773	3.61141	0.1864852	0.23963115	2.5670867	21	8 9.6	22.0
425789 2011 CL_{79}	16.4	X	100.09119	266.97114	308.86469	11.63733	0.2040793	0.22825634	2.6516782	21	9 8.6	20.7
425790 2011 CU_{79}	16.5	X	187.73459	173.82446	299.96001	12.20471	0.1012353	0.23156606	2.6263510	21	7 27.1	20.3
425791 2011 CM_{87}	16.3	X	300.86317	357.70866	275.67559	8.10138	0.0902315	0.20419364	2.8561077	21	3 18.9	20.3
425792 2011 CC_{91}	17.6	X	31.04212	3.35477	286.88681	2.75513	0.0540423	0.23325938	2.6136252	21	8 31.9	20.9
425793 2011 CV_{91}	17.7	X	238.22720	16.55617	151.06939	3.78870	0.1201342	0.25593205	2.4568931	21	12 3.7	20.8
425794 2011 CZ_{92}	18.0	X	199.55111	348.11231	252.17950	4.54197	0.1538453	0.26270417	2.4144863	21	—	—
425795 2011 CZ_{95}	18.3	X	238.46354	146.18500	295.21890	2.47243	0.0996504	0.23727308	2.5840668	21	8 11.1	22.0
425796 2011 CC_{103}	17.3	X	112.68598	212.43857	308.14882	3.94288	0.0551820	0.22193114	2.7018250	21	6 29.9	21.0
425797 2011 CT_{103}	17.0	X	352.50535	339.54533	306.74150	3.80746	0.0684277	0.22197007	2.7015091	21	6 27.7	20.1
425798 2011 CC_{104}	17.2	X	337.58922	7.58139	282.58911	3.12288	0.0500024	0.21940535	2.7225210	21	6 10.4	20.6
425799 2011 CH_{107}	17.6	X	232.96734	170.40067	266.16463	0.88629	0.0334832	0.23170843	2.6252752	21	8 6.0	21.0
425800 2011 CC_{109}	17.4	X	67.85693	273.03555	319.65830	10.20373	0.1419711	0.22388129	2.6861124	21	8 19.5	20.9
425801 2011 CO_{112}	17.1	X	331.00636	359.76671	315.81531	3.37673	0.1699661	0.22465764	2.6799205	21	6 23.2	19.9
425802 2011 CF_{117}	16.1	X	351.63900	316.57030	258.98447	11.06408	0.0937872	0.20182825	2.8783797	21	3 14.4	20.0
425803 2011 CY_{117}	16.9	X	170.13295	282.05504	355.36719	6.62251	0.1150481	0.26445181	2.4038371	21	—	—
425804 2011 DM_5	16.7	X	235.33071	32.57403	351.02542	8.36369	0.0613905	0.21736066	2.7395680	21	5 24.6	20.8
425805 2011 DH_8	17.3	X	177.85840	9.65888	144.73180	3.50834	0.1440717	0.23325734	2.6136404	21	9 7.3	21.4
425806 2011 DW_8	17.6	X	138.50768	85.38825	113.92115	4.90072	0.1914053	0.23111384	2.6297760	21	9 29.5	22.0
425807 2011 DD_{10}	17.0	X	205.83951	138.29659	359.37079	4.82197	0.0430535	0.23594462	2.5937573	21	9 21.9	20.6
425808 2011 DE_{11}	17.1	X	152.89873	42.41436	158.09073	8.58670	0.2034084	0.23786636	2.5797683	21	10 13.8	21.5
425809 2011 DK_{13}	17.7	X	120.70080	175.79270	288.27360	3.12356	0.1619731	0.21423796	2.7661248	21	5 8.8	21.8
425810 2011 DO_{13}	17.9	X	233.57095	282.46798	147.01137	5.12686	0.1883752	0.23741604	2.5830294	21	7 11.2	22.0
425811 2011 DL_{15}	17.3	X	77.11433	95.92408	183.31864	2.83659	0.1619622	0.24154488	2.5535096	21	11 5.8	20.9
425812 2011 DX_{15}	16.9	X	257.96547	25.86635	347.42675	5.23066	0.0387790	0.22077908	2.7112159	21	6 12.9	20.7
425813 2011 DD_{18}	17.6	X	142.88566	13.52464	151.97116	3.22111	0.0743562	0.22616804	2.6679758	21	8 13.7	21.6
425814 2011 DV_{19}	18.0	X	304.95256	301.61195	170.91777	2.67119	0.1322971	0.26426091	2.4049946	21	—	—
425815 2011 DK_{23}	17.4	X	73.45385	257.05956	355.97925	2.30569	0.1455473	0.22634103	2.6666163	21	9 24.3	20.9
425816 2011 DD_{24}	17.1	X	265.91062	69.58295	77.51594	5.21403	0.1301290	0.25453124	2.4658992	21	12 12.9	19.6
425817 2011 DC_{25}	16.8	X	106.87835	101.26173	138.32451	7.49033	0.1462541	0.24113422	2.5564079	21	10 18.9	20.7
425818 2011 DV_{28}	17.6	X	229.55113	135.67975	246.55603	0.47155	0.1773640	0.22270893	2.6955308	21	5 9.6	21.9
425819 2011 DV_{39}	17.1	X	55.38319	315.48922	302.32672	2.72645	0.1016486	0.22741734	2.6581960	21	8 29.9	20.5
425820 2011 DL_{41}	17.9	X	149.54706	348.88599	161.24065	2.47678	0.1440385	0.22632655	2.6667300	21	8 4.3	21.9
425821 2011 DO_{48}	17.3	X	173.22400	190.98303	85.93162	2.85146	0.1729789	0.26174758	2.4203654	21	—	—
425822 2011 EP_4	17.3	X	140.48125	336.49472	208.32400	1.59441	0.1369753	0.22970489	2.6405185	21	9 8.2	21.4
425823 2011 EO_8	17.5	X	268.35331	72.38979	347.73038	5.80111	0.0632263	0.24042034	2.5614659	21	8 28.3	20.7
425824 2011 ES_{10}	17.2	X	156.11985	358.68232	167.03431	7.91418	0.1382484	0.23166368	2.6256132	21	8 30.5	21.4
425825 2011 EP_{12}	16.5	X	101.63500	202.36813	5.32455	9.51005	0.1766872	0.22429572	2.6828026	21	9 4.1	20.5
425826 2011 ET_{13}	16.5	X	174.45013	180.01378	349.90419	12.80522	0.1469340	0.23536452	2.5980174	21	9 21.6	20.7
425827 2011 EA_{15}	17.5	X	181.30259	98.82351	152.75783	2.75274	0.1717756	0.25857924	2.4400962	21	—	—
425828 2011 EA_{16}	17.3	X	188.49366	146.90973	346.82235	4.91639	0.2159129	0.23449101	2.6044653	21	8 20.4	21.7
425829 2011 ER_{16}	16.8	X	150.71573	90.74196	15.11881	9.05800	0.1291385	0.21613782	2.7498914	21	6 8.0	21.2
425830 2011 ET_{18}	16.3	X	116.24953	182.42966	352.58118	15.17339	0.1586116	0.22040980	2.7142433	21	8 9.2	20.6
425831 2011 EA_{20}	17.5	X	252.09172	341.91566	110.92117	5.91503	0.1145404	0.24548232	2.5261312	21	9 14.4	20.8
425832 2011 EA_{23}	16.8	X	99.62078	55.83022	158.44437	11.82922	0.1342936	0.22711792	2.6605318	21	9 3.5	20.4
425833 2011 EF_{23}	16.1	X	260.85450	40.50528	10.60828	22.28579	0.0345880	0.22870376	2.6482187	21	8 20.5	20.1
425834 2011 EH_{24}	17.2	X	180.06291	336.36825	138.13156	8.06747	0.2039290	0.22790757	2.6543828	21	7 19.1	21.7
425835 2011 EV_{26}	17.1	X	202.60318	139.84794	153.32275	6.57367	0.1241264	0.27320188	2.3522326	21	—	—
425836 2011 EP_{27}	17.9	X	215.46772	326.57571	147.44329	4.60137	0.2553763	0.23798726	2.5788945	21	8 15.4	22.1
425837 2011 EY_{36}	17.1	X	39.22253	102.32634	168.44077	7.18898	0.1837554	0.22027599	2.7153425	21	9 5.2	20.1
425838 2011 EQ_{37}	16.9	X	223.93455	79.29971	24.19800	14.31930	0.0523984	0.23138993	2.6276836	21	9 4.7	20.7
425839 2011 ED_{38}	16.7	X	127.66854	114.31819	115.82894	5.30290	0.1334484	0.23527707	2.5986611	21	10 25.6	20.7
425840 2011 EO_{39}	17.2	X	77.40766	105.35113	126.23727	4.84461	0.1264831	0.22019707	2.7159912	21	8 29.9	20.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
425841 2011 EQ_{41}	16.9	X	141.45553	150.77478	343.00185	4.32641	0.1097232	0.22149785	2.7053473	21	7 4.7	21.1
425842 2011 EP_{43}	17.1	X	128.07647	107.71222	155.70343	15.08195	0.1885161	0.24438444	2.5336912	21	12 7.9	21.6
425843 2011 EK_{50}	16.7	X	313.38652	27.28994	92.15149	7.44268	0.0732058	0.26247507	2.4158910	21	—	—
425844 2011 EP_{53}	16.8	X	71.78216	153.42884	59.43434	10.23454	0.1415320	0.21413804	2.7669852	21	8 1.3	20.6
425845 2011 EX_{53}	17.2	X	156.76144	132.65123	104.31387	4.77799	0.1043740	0.24328076	2.5413484	21	11 30.3	21.1
425846 2011 EM_{54}	16.5	X	22.10426	178.76075	119.57886	5.56833	0.2146350	0.21858720	2.7293102	21	9 21.9	19.3
425847 2011 EV_{54}	16.5	X	62.99590	262.80249	339.26041	12.37771	0.1556265	0.22176902	2.7031416	21	8 28.9	19.9
425848 2011 EG_{58}	16.8	X	294.02675	167.56379	55.82024	10.75316	0.1700747	0.18406112	3.0607511	21	1 7.1	21.5
425849 2011 EH_{59}	17.6	X	182.57495	40.25223	102.82333	6.76760	0.2402474	0.23493783	2.6011621	21	8 27.9	22.1
425850 2011 ET_{62}	16.9	X	41.76193	198.80003	75.59230	8.11060	0.1538598	0.22501340	2.6770951	21	9 15.3	20.2
425851 2011 ER_{68}	17.4	X	214.07382	244.44237	20.06019	2.35703	0.1607033	0.26565771	2.3965570	21	—	—
425852 2011 EY_{68}	17.2	X	194.42712	11.78804	141.24536	7.78912	0.1456845	0.23716360	2.5848620	21	9 23.5	21.2
425853 2011 EV_{70}	16.2	X	226.41987	284.72801	25.52356	12.94605	0.1867092	0.18173211	3.0868459	21	2 19.1	21.5
425854 2011 EV_{71}	17.1	X	122.64693	54.87524	83.86943	3.71150	0.1340002	0.21280610	2.7785188	21	6 22.4	21.3
425855 2011 EY_{71}	16.5	X	208.18812	333.21732	49.51163	7.04691	0.0768000	0.20165903	2.8799897	21	4 25.8	20.9
425856 2011 EL_{72}	16.6	X	279.64957	47.26944	355.68329	8.53729	0.0976526	0.22951082	2.6420069	21	8 16.3	20.0
425857 2011 EH_{75}	16.5	X	44.56592	116.73708	33.36498	14.71777	0.1676840	0.19677645	2.9274353	21	3 30.2	19.8
425858 2011 EU_{75}	17.9	X	184.65559	13.58167	133.35653	5.02395	0.1634668	0.23702716	2.5858539	21	9 4.5	21.9
425859 2011 EG_{80}	17.6	X	176.07531	250.75381	247.67197	4.69578	0.1493367	0.23102653	2.6304385	21	8 13.6	22.0
425860 2011 EZ_{82}	17.0	X	109.63376	89.22868	130.93180	4.76533	0.0519936	0.23305997	2.6151158	21	9 15.4	20.5
425861 2011 EB_{83}	16.9	X	273.23036	76.20532	348.28712	14.46021	0.0890384	0.23842521	2.5757355	21	9 6.2	20.0
425862 2011 EQ_{84}	16.4	X	350.46788	64.09658	134.54262	5.58395	0.0957847	0.19065944	2.9897199	21	2 27.5	20.0
425863 2011 EN_{86}	16.8	X	123.89963	58.34871	76.18002	10.31071	0.1030605	0.21494432	2.7600613	21	6 14.6	20.9
425864 2011 FM_{2}	17.3	X	175.76919	278.04830	205.27863	4.10378	0.1928464	0.22538751	2.6741319	21	7 25.7	21.7
425865 2011 FX_{3}	16.8	X	123.48664	46.98158	166.39382	13.74415	0.2024614	0.22977118	2.6400106	21	10 3.8	21.2
425866 2011 FF_{4}	16.8	X	148.01702	88.41545	113.82130	6.84312	0.0774081	0.23534655	2.5981496	21	10 10.6	20.7
425867 2011 FW_{6}	16.2	X	151.42380	143.21325	11.05023	15.71069	0.1170121	0.22516572	2.6758876	21	8 17.8	20.6
425868 2011 FW_{7}	16.5	X	112.87924	229.65540	40.40641	14.26893	0.2401772	0.23199936	2.6230799	21	11 29.4	21.1
425869 2011 FL_{10}	16.8	X	110.47770	195.39070	354.91951	8.69850	0.0781734	0.22221167	2.6995506	21	8 11.4	20.7
425870 2011 FE_{11}	17.6	X	185.70695	166.62994	330.34565	2.79825	0.0970854	0.23015765	2.6370545	21	8 24.6	21.3
425871 2011 FQ_{11}	16.7	X	210.38092	95.90440	34.90903	13.71326	0.0531408	0.23054695	2.6340851	21	9 22.9	20.6
425872 2011 FH_{12}	17.0	X	324.73342	273.06195	341.62891	7.45933	0.0529752	0.20194705	2.8772508	21	4 3.5	20.9
425873 2011 FS_{16}	15.9	X	283.98983	54.67001	163.52727	16.91273	0.1719070	0.17854622	3.1234575	21	—	—
425874 2011 FM_{18}	16.4	X	212.76488	93.04385	196.15559	13.87385	0.1018540	0.17503063	3.1651430	21	1 9.2	21.6
425875 2011 FW_{18}	16.3	X	81.92912	359.43672	196.06231	11.50309	0.0238072	0.21473013	2.7618965	21	6 30.1	20.3
425876 2011 FH_{19}	16.7	X	356.19374	323.43926	173.40238	11.37668	0.0474658	0.17570228	3.1570717	21	—	—
425877 2011 FP_{19}	16.3	X	188.01340	296.41986	170.62605	11.35741	0.0706610	0.22006416	2.7170847	21	7 18.0	20.5
425878 2011 FP_{22}	17.0	X	222.82006	266.38764	154.16426	5.47200	0.1050430	0.21921467	2.7240995	21	6 25.8	21.1
425879 2011 FB_{24}	17.2	X	105.96105	186.39112	25.10662	2.55121	0.1391237	0.22522962	2.6753815	21	9 8.1	21.1
425880 2011 FE_{25}	16.3	X	6.34903	96.75683	158.07873	14.17483	0.0248275	0.20850428	2.8166058	21	6 8.1	20.3
425881 2011 FT_{26}	15.7	X	51.77052	266.69050	113.07490	11.15568	0.0813752	0.15853775	3.3810188	21	—	—
425882 2011 FL_{30}	17.3	X	101.34920	234.08297	319.16392	2.67461	0.0996553	0.22296664	2.6934533	21	8 4.3	20.9
425883 2011 FZ_{32}	17.2	X	152.27552	116.52514	120.26558	4.21788	0.1046451	0.23832873	2.5764306	21	11 25.2	21.1
425884 2011 FU_{33}	16.0	X	24.13871	83.10247	40.05533	12.07408	0.0821123	0.18033742	3.1027407	21	1 18.2	20.1
425885 2011 FA_{34}	17.1	X	125.53234	124.28156	119.30217	4.37290	0.1629883	0.23440657	2.6050908	21	11 9.3	21.3
425886 2011 FV_{35}	17.0	X	343.25518	298.00263	14.93557	8.77059	0.0439380	0.22116088	2.7080946	21	7 24.4	20.6
425887 2011 FJ_{36}	16.2	X	197.07754	330.13696	70.25655	6.88463	0.0820109	0.20521029	2.8466668	21	5 6.1	20.4
425888 2011 FH_{41}	16.8	X	198.40173	344.70628	86.47467	8.05045	0.0546772	0.21950255	2.7217172	21	6 14.9	20.8
425889 2011 FC_{48}	17.1	X	111.18061	82.38131	200.20684	5.62715	0.2600371	0.23392390	2.6086730	21	12 16.0	21.7
425890 2011 FO_{48}	15.7	X	24.63151	66.71015	86.95089	11.13240	0.0450992	0.18260454	3.0770060	21	2 27.7	19.9
425891 2011 FP_{48}	16.1	X	207.07488	255.13749	65.83292	21.06406	0.0955000	0.17533992	3.1614199	21	2 19.9	21.4
425892 2011 FO_{51}	16.5	X	191.55971	149.98832	359.30031	13.98294	0.1948385	0.23644817	2.5900734	21	9 13.0	20.7
425893 2011 FQ_{57}	16.2	X	193.11010	4.49679	355.77859	12.60705	0.1649633	0.19129728	2.9830705	21	3 15.1	21.2
425894 2011 FP_{59}	17.4	X	154.58391	284.68432	232.46506	1.94255	0.0343589	0.22365346	2.6879363	21	8 13.9	21.3
425895 2011 FT_{59}	17.2	X	122.10321	308.05413	249.78287	1.58116	0.0995383	0.22502765	2.6769821	21	9 2.6	21.2
425896 2011 FV_{63}	16.6	X	301.70325	64.24665	359.77522	5.84015	0.0551976	0.23882142	2.5728859	21	10 19.9	19.8
425897 2011 FG_{70}	17.0	X	232.61940	335.61844	126.21563	6.69300	0.2336768	0.24009174	2.5638026	21	8 17.9	21.0
425898 2011 FP_{79}	16.7	X	12.96965	124.66187	159.77472	9.46407	0.1869170	0.21654506	2.7464426	21	8 4.8	19.3
425899 2011 FJ_{84}	16.5	X	54.76613	111.77511	103.12747	8.77715	0.1627229	0.21224920	2.7833769	21	7 10.3	19.8
425900 2011 FA_{88}	16.5	X	179.93153	99.79805	18.86914	13.92111	0.0949489	0.22689470	2.6622765	21	7 30.8	20.8
425901 2011 FB_{88}	16.4	X	109.59427	69.27657	147.68189	13.89792	0.0551924	0.22887534	2.6468950	21	9 11.4	20.1
425902 2011 FO_{88}	16.7	X	71.69841	253.97572	0.45734	11.04402	0.1500129	0.22477549	2.6789837	21	9 24.4	20.2
425903 2011 FE_{101}	16.9	X	349.88111	302.34423	346.61017	4.38170	0.1433697	0.21112396	2.7932579	21	6 23.9	20.0
425904 2011 FL_{104}	16.3	X	300.79528	35.51727	140.10145	10.09366	0.0412036	0.17538904	3.1608295	21	—	—
425905 2011 FB_{115}	16.5	X	0.63956	340.97071	312.48865	7.14015	0.1983315	0.21357412	2.7718537	21	7 23.9	19.1
425906 2011 FY_{120}	16.4	X	217.77321	42.25945	7.30359	8.12567	0.0893448	0.21533765	2.7566994	21	6 5.9	20.6
425907 2011 FB_{125}	17.2	X	166.71386	245.57847	267.92758	6.10049	0.1701413	0.22891745	2.6465704	21	8 23.0	21.7
425908 2011 FM_{126}	17.5	X	189.42234	107.12543	42.70475	7.67587	0.1096399	0.23682451	2.5873288	21	9 17.6	21.4
425909 2011 FG_{127}	17.0	X	156.40253	49.02885	113.93288	13.50731	0.0949068	0.22937495	2.6430500	21	8 30.2	21.1
425910 2011 FE_{132}	17.0	X	219.83771	256.87286	180.44209	15.14011	0.2529670	0.23193163	2.6235906	21	7 3.2	21.8
425911 2011 FG_{132}	16.7	X	182.77837	91.56881	100.04562	13.39169	0.1885922	0.24200735	2.5502554	21	11 1.2	21.1
425912 2011 FS_{134}	17.6	X	199.67981	98.30215	353.34323	3.79656	0.0652835	0.22339867	2.6899796	21	7 13.8	21.6
425913 2011 FE_{141}	16.9	X	104.42906	87.38174	76.49964	4.88827	0.1507331	0.21197860	2.7857451	21	7 6.7	20.9
425914 2011 FJ_{141}	17.0	X	148.59811	214.89456	28.63691	9.51394	0.1192921	0.23938079	2.5688763	21	11 27.1	21.1
425915 2011 FL_{143}	16.1	X	354.06328	142.00344	36.71966	9.60707	0.0830519	0.18343354	3.0677282	21	2 13.7	20.2
425916 2011 FD_{148}	16.8	X	73.06488	28.50524	180.97355	8.34958	0.1516838	0.21614421	2.7498371	21	7 26.2	20.5
425917 2011 FN_{152}	16.6	X	233.16852	150.34370	331.85782	12.93446	0.2187257	0.24281028	2.5446301	21	9 11.6	20.6
425918 2011 FA_{154}	16.7	X	123.84193	200.30222	128.71272	7.86555	0.2024301	0.25980154	2.4324368	21	—	—
425919 2011 FV_{157}	15.6	X	154.74057	296.09481	62.60634	16.83390	0.0871782	0.18456075	3.0552247	21	2 6.9	20.5
425920 2011 GU_{12}	16.6	X	150.73020	192.46927	1.24529	9.76451	0.0625714	0.23160404	2.6260639	21	9 28.1	20.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
425921 2011 GZ_{13}	16.9	X	175.54462	257.47460	240.25084	5.91814	0.0380794	0.22385540	2.6863195	21	8 12.4	20.9
425922 2011 GC_{17}	16.1	X	85.44561	245.03190	211.24315	9.80515	0.0890290	0.19139547	2.9820501	21	3 6.4	20.3
425923 2011 GP_{17}	17.4	X	106.11748	4.20226	230.51744	5.38659	0.1663128	0.22818215	2.6522530	21	10 7.9	21.5
425924 2011 GU_{24}	16.5	X	107.88468	13.31435	216.59122	13.32651	0.1948178	0.22679518	2.6630552	21	10 5.3	20.8
425925 2011 GD_{27}	16.2	X	224.05277	316.90449	350.78617	9.14742	0.0756158	0.18256778	3.0774190	21	2 14.1	20.9
425926 2011 GW_{38}	16.2	X	113.15709	302.85970	106.98387	4.89660	0.1271602	0.19077700	2.9884916	21	2 22.1	20.4
425927 2011 GG_{39}	16.6	X	300.23138	223.79809	90.63734	4.74000	0.0834195	0.20988751	2.8042172	21	5 16.8	20.2
425928 2011 GY_{39}	16.9	X	326.44782	215.68648	130.07113	6.75378	0.0744601	0.22579285	2.6709306	21	8 8.9	20.0
425929 2011 GS_{46}	16.1	X	44.28917	315.40619	311.20038	11.93027	0.1464266	0.22606422	2.6687926	21	8 29.6	19.4
425930 2011 GZ_{46}	16.9	X	13.45487	319.05333	211.28253	2.00267	0.1087494	0.18715977	3.0268743	21	2 24.7	20.7
425931 2011 GD_{56}	16.9	X	42.87491	110.67643	111.22748	5.93553	0.1015261	0.21060886	2.7978105	21	6 21.8	20.3
425932 2011 GL_{58}	16.3	X	168.28129	142.44519	49.60734	13.27165	0.0956515	0.23360209	2.6110683	21	10 19.4	20.3
425933 2011 GO_{60}	16.5	X	198.89228	349.40709	154.17773	14.75496	0.1355999	0.23263664	2.6182873	21	9 15.7	20.5
425934 2011 GD_{61}	16.7	X	121.92752	103.17152	80.54168	10.03986	0.1138290	0.21926552	2.7236784	21	8 20.8	20.9
425935 2011 GL_{61}	16.4	X	112.84705	124.39488	99.38971	9.88761	0.0781172	0.22700086	2.6614464	21	9 29.9	20.4
425936 2011 GH_{64}	16.4	X	111.88840	167.92726	91.13102	14.49588	0.1326846	0.23388384	2.6089709	21	11 16.1	20.6
425937 2011 GP_{64}	16.1	X	308.07670	80.91299	3.55052	14.26063	0.0448799	0.24435508	2.5338941	21	11 24.9	19.5
425938 2011 GC_{65}	16.3	X	127.20111	99.29385	51.94048	14.89970	0.0304618	0.21348392	2.7726344	21	7 2.5	20.4
425939 2011 GU_{67}	16.4	X	58.95260	158.11802	60.99584	13.78098	0.1465313	0.21288074	2.7778693	21	7 22.5	20.1
425940 2011 GQ_{70}	16.3	X	1.74521	99.05966	198.50759	12.23934	0.1592084	0.20983203	2.8047115	21	7 27.1	19.5
425941 2011 GS_{70}	16.7	X	137.19258	98.87351	82.21865	14.29403	0.2195679	0.22773070	2.6557570	21	9 11.8	21.4
425942 2011 GT_{71}	16.8	X	164.14811	186.21865	356.86598	4.35072	0.2114639	0.23394479	2.6085177	21	9 28.8	21.2
425943 2011 GY_{71}	16.2	X	350.66801	342.56319	212.69626	7.33341	0.2000463	0.18775661	3.0204563	21	2 8.1	19.8
425944 2011 GT_{75}	17.3	X	119.45908	122.79377	112.69785	6.54634	0.1077181	0.23167286	2.6255439	21	10 22.8	21.3
425945 2011 GX_{75}	17.1	X	182.24804	42.56195	120.50654	6.61591	0.1080042	0.23284429	2.6167304	21	9 26.1	21.1
425946 2011 GB_{76}	15.8	X	226.52158	204.67695	88.54655	8.05927	0.1447447	0.17552878	3.1591518	21	1 28.6	20.9
425947 2011 GH_{77}	16.9	X	69.47275	34.11143	205.30971	7.57273	0.1624746	0.21623316	2.7490830	21	8 31.6	20.8
425948 2011 GZ_{78}	16.6	X	169.87121	315.29298	189.68595	14.62044	0.0663073	0.22476130	2.6790965	21	8 14.3	20.7
425949 2011 GL_{84}	15.9	X	208.06544	178.11150	115.92118	11.69276	0.0525152	0.17517702	3.1633795	21	1 12.1	20.6
425950 2011 GS_{84}	16.9	X	15.61194	63.68841	197.56872	9.59189	0.0767937	0.21042119	2.7994737	21	6 29.2	20.5
425951 2011 GN_{87}	17.4	X	92.88208	76.76620	109.50142	6.81430	0.1865859	0.21504592	2.7591920	21	7 27.6	21.3
425952 2011 HL_{3}	16.0	X	231.61804	212.26944	84.00279	11.88425	0.0730971	0.17913199	3.1166446	21	2 10.1	20.8
425953 2011 HR_{3}	16.2	X	4.25411	53.42789	97.69398	10.17510	0.0650509	0.18000902	3.1065132	21	1 23.5	20.3
425954 2011 HY_{3}	16.9	X	213.49046	27.71004	112.31927	14.79200	0.1152367	0.23485829	2.6017494	21	10 3.8	21.0
425955 2011 HE_{7}	15.7	X	236.11056	181.03404	116.02676	19.66238	0.1100608	0.17385716	3.1793694	21	2 13.1	20.8
425956 2011 HL_{10}	16.5	X	87.11007	355.80792	126.36177	2.99358	0.0422918	0.19755221	2.9197665	21	4 7.4	20.4
425957 2011 HL_{11}	16.6	X	351.56264	240.97504	135.56802	6.48695	0.0690350	0.23430197	2.6058660	21	11 4.3	19.7
425958 2011 HC_{14}	16.4	X	345.07660	179.07015	135.83088	6.60797	0.1149251	0.21294448	2.7773149	21	7 23.7	19.6
425959 2011 HC_{16}	17.1	X	97.19072	190.81791	358.34740	4.48874	0.0565772	0.21348960	2.7725852	21	7 19.3	20.9
425960 2011 HH_{18}	17.1	X	172.09494	161.26862	17.41064	3.95685	0.1863986	0.23486080	2.6017308	21	10 1.2	21.5
425961 2011 HL_{19}	16.2	X	185.38237	153.79860	211.49221	9.36918	0.0661956	0.18119435	3.0929503	21	3 9.8	20.9
425962 2011 HY_{20}	16.9	X	142.86450	239.78820	351.81322	7.18532	0.1500034	0.23470231	2.6029020	21	11 6.1	21.1
425963 2011 HL_{22}	16.7	X	86.80868	150.90054	72.41706	9.64047	0.1928742	0.21728912	2.7401693	21	9 12.4	20.9
425964 2011 HO_{23}	16.4	X	343.82109	192.75683	38.68735	10.89504	0.0816337	0.19244743	2.9711732	21	4 4.2	20.2
425965 2011 HT_{31}	16.8	X	142.47800	319.39419	198.80415	10.06970	0.0487766	0.21758366	2.7376958	21	7 29.9	20.9
425966 2011 HK_{33}	17.0	X	221.84130	63.83104	104.29837	7.62676	0.1360350	0.24274102	2.5451141	21	11 11.9	20.8
425967 2011 HY_{43}	17.2	X	183.39566	67.18193	134.53864	5.65226	0.0944866	0.23958859	2.5673907	21	11 15.3	21.0
425968 2011 HA_{45}	15.6	X	165.18760	285.41997	63.95123	10.85983	0.1051836	0.17393546	3.1784152	21	2 8.0	20.6
425969 2011 HG_{50}	15.9	X	279.91622	149.77501	116.79054	18.28869	0.1775250	0.17723825	3.1388056	21	2 13.7	20.8
425970 2011 HH_{50}	16.1	X	245.73162	144.50675	160.22737	16.93787	0.1352392	0.17663471	3.1459514	21	2 27.0	20.9
425971 2011 HC_{52}	17.1	X	152.10630	34.81727	111.57956	10.49882	0.2401406	0.21924432	2.7238539	21	8 6.6	21.8
425972 2011 HD_{57}	16.2	X	248.80405	229.72847	113.84308	12.15027	0.1384404	0.19179470	2.9779105	21	4 21.2	21.0
425973 2011 HL_{60}	16.1	X	56.62677	20.53706	91.47996	10.43495	0.0188220	0.18163989	3.0878906	21	2 15.9	20.5
425974 2011 HX_{60}	16.3	X	189.77365	134.59883	205.79066	10.41602	0.0059933	0.18293686	3.0732784	21	2 9.9	20.8
425975 2011 HS_{63}	17.1	X	149.12099	321.30523	175.24556	3.37261	0.1407752	0.21727475	2.7402901	21	7 17.0	21.4
425976 2011 HY_{63}	16.2	X	292.32374	320.03320	34.92559	12.97817	0.1167199	0.21520866	2.7578008	21	6 22.3	20.0
425977 2011 HV_{67}	17.3	X	114.72263	330.97862	190.76453	3.64948	0.1061899	0.21416071	2.7667900	21	7 9.6	21.3
425978 2011 HL_{72}	16.3	X	65.65980	36.58411	92.17252	17.00059	0.0507845	0.18553421	3.0445286	21	3 28.9	20.8
425979 2011 HH_{73}	16.7	X	180.41627	36.39774	101.76203	9.23423	0.1141566	0.22259069	2.6964853	21	8 22.4	20.9
425980 2011 HP_{73}	16.6	X	93.77392	344.68307	146.98503	16.36076	0.1805050	0.20430850	2.8550371	21	5 21.7	20.9
425981 2011 HG_{74}	16.6	X	134.87666	45.69561	161.93822	13.82135	0.0323949	0.22369776	2.6875814	21	9 27.9	20.3
425982 2011 HL_{75}	15.9	X	317.40562	206.97432	69.34291	17.70320	0.0598509	0.20060058	2.8901115	21	4 29.6	19.9
425983 2011 HA_{77}	15.7	X	43.40291	92.18760	88.26549	17.13250	0.0112576	0.19257325	2.9698790	21	4 27.9	20.1
425984 2011 HF_{77}	15.7	X	344.38090	121.93185	116.70915	11.42969	0.0273620	0.18933748	3.0036200	21	4 21.9	20.0
425985 2011 HO_{77}	16.9	X	92.05339	105.45018	169.25971	15.31091	0.2229241	0.22883459	2.6472092	21	11 21.6	21.4
425986 2011 HR_{81}	16.9	X	79.03561	257.09212	333.12104	8.25318	0.2391080	0.21654239	2.7464651	21	9 11.6	21.0
425987 2011 HD_{82}	16.1	X	309.39847	197.40456	78.46421	5.47198	0.2233285	0.18921683	3.0048966	21	3 22.9	20.2
425988 2011 HK_{82}	16.5	X	160.67064	135.58080	90.78963	10.70628	0.0608798	0.23620959	2.5918172	21	11 22.8	20.2
425989 2011 HX_{82}	15.9	X	32.96693	147.35640	120.39220	13.95306	0.1286656	0.21068071	2.7971743	21	8 14.1	19.2
425990 2011 HV_{84}	17.0	X	148.59901	11.44539	185.23117	14.24178	0.1159590	0.22623778	2.6674276	21	9 30.9	21.2
425991 2011 HX_{84}	16.5	X	222.70834	317.99015	170.81569	13.30289	0.2065280	0.23573577	2.5952890	21	9 13.2	20.3
425992 2011 HR_{89}	16.3	X	200.41880	201.64468	169.58974	11.99380	0.1204087	0.18764464	3.0216578	21	4 5.4	21.2
425993 2011 HS_{90}	16.7	X	46.75377	141.13764	124.52643	9.46222	0.1191802	0.21759027	2.7376404	21	9 2.3	20.2
425994 2011 HE_{92}	16.7	X	216.07783	24.18681	65.81933	8.17024	0.1129101	0.22243091	2.6977764	21	7 28.2	20.8
425995 2011 HX_{97}	16.0	X	271.48404	215.17074	106.47572	7.59222	0.1782361	0.19003770	2.9962373	21	4 11.8	20.6
425996 2011 HS_{100}	16.7	X	11.43356	160.86745	120.73159	5.85079	0.0869461	0.20869694	2.8148721	21	7 22.4	20.1
425997 2011 HS_{102}	16.9	X	101.70914	94.90591	90.12297	11.52103	0.1129114	0.21821680	2.7323978	21	7 27.7	20.8
425998 2011 JE_{4}	15.8	X	216.84583	196.81015	108.93139	10.30065	0.0524944	0.17389875	3.1788625	21	2 5.5	20.5
425999 2011 JF_{6}	15.8	X	75.90153	351.67313	116.23252	11.38634	0.0275386	0.18387298	3.0628385	21	3 8.3	20.1
426000 2011 JX_{7}	16.6	X	109.91954	104.94003	148.77984	12.02085	0.1725389	0.23091116	2.6313146	21	11 9.8	21.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
426001 2011 JB_{12}	16.9	X	137.80847	177.47214	48.98003	5.64727	0.1981326	0.23115331	2.6294766	21	10 30.1	21.3
426002 2011 JE_{13}	15.6	X	218.81619	227.47330	88.84598	28.49761	0.1617434	0.17464573	3.1697918	21	2 23.4	21.2
426003 2011 JT_{20}	17.0	X	43.21046	175.42241	133.21109	6.55702	0.1413833	0.22243993	2.6977035	21	10 29.4	20.5
426004 2011 JB_{31}	16.2	X	324.93625	324.88661	228.73826	9.50759	0.1730864	0.17761952	3.1343122	21	1 6.2	20.5
426005 2011 JE_{31}	15.8	X	270.83356	51.59980	228.39382	10.01917	0.0602012	0.17998598	3.1067783	21	2 26.8	20.5
426006 2011 KS_{2}	16.2	X	313.91840	39.04905	238.36167	8.72233	0.0261163	0.19164158	2.9794965	21	4 24.2	20.4
426007 2011 KZ_{6}	16.0	X	326.55263	69.94234	137.24598	17.15296	0.2474349	0.17812036	3.1284340	21	1 15.0	20.4
426008 2011 KJ_{7}	15.8	X	214.90742	265.46903	59.69620	10.54823	0.0927621	0.17755025	3.1351274	21	2 28.7	20.8
426009 2011 KV_{14}	16.5	X	347.71327	166.25865	51.24755	10.19249	0.0349539	0.18962781	3.0005534	21	3 28.9	20.6
426010 2011 KN_{22}	16.0	X	271.16384	123.66066	163.38813	17.91911	0.1566078	0.17860356	3.1227890	21	2 28.7	20.7
426011 2011 KF_{23}	16.7	X	107.31937	301.62477	227.18996	6.14815	0.0864231	0.20941534	2.8084308	21	7 7.1	20.7
426012 2011 KN_{25}	16.8	X	3.59420	34.09032	155.08519	1.11465	0.1947768	0.18681898	3.0305542	21	2 27.8	19.9
426013 2011 KQ_{28}	16.9	X	192.83062	322.65686	211.09988	4.93313	0.3557405	0.23688512	2.5868874	21	10 4.3	21.6
426014 2011 KN_{31}	16.2	X	75.72240	220.34502	91.80372	12.88663	0.1791560	0.22776421	2.6554964	21	12 14.5	20.1
426015 2011 KZ_{31}	16.9	X	146.18990	157.33069	85.98014	4.89466	0.1304070	0.23365651	2.6106628	21	11 25.9	20.9
426016 2011 KL_{35}	16.0	X	320.90096	46.77197	233.09732	16.94404	0.1456091	0.18969295	2.9998665	21	4 20.2	19.9
426017 2011 KO_{42}	15.8	X	288.15417	12.55289	215.19720	16.17465	0.0859826	0.17430308	3.1739446	21	1 13.6	20.8
426018 2011 KT_{42}	16.3	X	299.64138	166.84508	73.90395	6.55497	0.1147252	0.18061080	3.0996090	21	2 12.3	20.8
426019 2011 KC_{45}	15.8	X	218.61060	94.91585	235.06986	9.47783	0.0350966	0.17953388	3.1119917	21	3 2.4	20.5
426020 2011 LO	15.7	X	170.46833	306.78314	74.94834	19.85605	0.1190199	0.18109225	3.0941128	21	3 30.4	20.9
426021 2011 LO_{7}	16.4	X	335.30439	19.30189	205.19660	2.22537	0.1427520	0.18337681	3.0683609	21	3 3.7	20.3
426022 2011 LP_{9}	16.2	X	245.52718	210.99901	136.49308	8.99527	0.0709941	0.18805861	3.0172218	21	4 27.2	20.8
426023 2011 LK_{14}	16.4	X	266.17418	90.50559	212.47140	11.44093	0.0794217	0.18479753	3.0526144	21	3 20.0	20.9
426024 2011 LC_{23}	16.2	X	316.84525	77.83397	177.36475	8.53167	0.0625852	0.18500557	3.0503255	21	3 28.6	20.2
426025 2011 LL_{23}	17.0	X	168.20029	358.42616	146.98639	5.59730	0.0992328	0.21699908	2.7426104	21	8 16.0	21.0
426026 2011 MH_{2}	15.3	X	241.90404	206.41900	127.32974	28.01750	0.1413873	0.17218756	3.1998886	21	4 7.8	20.8
426027 2011 MJ_{5}	16.1	X	46.28351	81.05881	111.67290	10.75858	0.0974832	0.18599560	3.0394915	21	5 21.9	20.1
426028 2011 OV_{3}	15.9	X	305.72582	124.29805	139.97211	16.82337	0.1068754	0.17290147	3.1910744	21	3 24.4	20.5
426029 2011 PA_{2}	14.8	X	266.91508	67.18438	269.26892	25.21969	0.1837324	0.17385186	3.1794340	21	4 14.5	20.2
426030 2011 QM_{1}	15.9	X	5.39314	55.68693	174.80107	15.84038	0.0537218	0.17499025	3.1656300	21	5 8.4	20.3
426031 2011 QL_{12}	17.8	X	9.43053	63.93887	308.23716	14.17775	0.0832229	0.41145652	1.7902764	21	—	—
426032 2011 QT_{50}	16.5	X	69.34029	102.50957	179.03399	8.32545	0.2628513	0.21130039	2.7917028	21	11 9.6	20.8
426033 2011 QF_{75}	16.3	X	335.61515	118.58129	176.01901	9.50923	0.0640847	0.18598334	3.0396251	21	6 14.2	20.5
426034 2011 QO_{75}	16.3	X	90.31232	337.46398	289.02725	7.72310	0.0838459	0.21133241	2.7914208	21	10 18.0	20.5
426035 2011 SS_{28}	15.7	X	315.84727	303.01896	5.64285	16.11167	0.2132400	0.17820485	3.1274452	21	5 7.2	19.8
426036 2011 SN_{47}	15.9	X	18.53482	227.33270	350.68846	5.29175	0.1058327	0.16956903	3.2327468	21	5 8.1	19.9
426037 2011 SO_{103}	15.6	X	320.92857	136.62965	178.36934	17.02312	0.2246899	0.18079245	3.0975324	21	5 30.4	19.6
426038 2011 SP_{120}	15.7	X	324.10317	60.09423	265.54049	7.81171	0.1324888	0.17824021	3.1270315	21	6 30.1	19.5
426039 2011 SX_{174}	14.8	X	62.74710	6.04136	33.78412	6.62382	0.1660971	0.12412003	3.9802298	21	—	—
426040 2011 SQ_{189}	18.4	X	106.47677	336.55686	205.07298	21.43707	0.0837861	0.37977087	1.8885201	21	7 21.7	21.1
426041 2011 UH	15.8	X	302.42129	270.67245	72.30355	17.05880	0.1058377	0.17629080	3.1500416	21	6 22.9	20.1
426042 2011 UN_{21}	18.1	X	224.28888	271.97826	164.97769	22.42312	0.1434405	0.37910099	1.8907442	21	7 16.4	20.9
426043 2011 UD_{104}	18.5	X	235.71781	184.05120	229.11703	20.24957	0.0694047	0.37421446	1.9071682	21	6 29.9	21.0
426044 2011 UM_{137}	17.5	X	93.97739	275.51017	219.98071	19.95715	0.0705111	0.35722115	1.9671823	21	4 19.0	19.2
426045 2011 UD_{261}	17.6	X	218.70988	199.02497	235.22172	19.04878	0.0757918	0.37372441	1.9088351	21	7 7.6	20.1
426046 2011 UM_{375}	15.3	X	23.32747	251.30893	10.33232	16.13670	0.2096231	0.17645960	3.1480324	21	8 1.8	19.1
426047 2011 WV_{100}	18.3	X	322.26215	332.43342	166.13072	1.75574	0.0091978	0.31870561	2.1226395	21	—	—
426048 2011 YK	17.8	X	86.83210	84.69039	100.60478	23.61072	0.0590859	0.36409226	1.9423542	21	6 28.6	19.4
426049 2011 YG_{24}	13.7	X	1.36124	294.12802	102.14091	11.17892	0.0784700	0.08365865	5.1776036	21	11 16.3	20.3
426050 2012 AA_{14}	18.1	X	285.04446	12.02100	110.83265	1.70214	0.1465782	0.28985130	2.2612707	21	12 19.6	20.0
426051 2012 AQ_{22}	17.6	X	110.29573	240.97810	289.55549	16.11419	0.0836893	0.35908084	1.9603844	21	7 15.1	19.3
426052 2012 BB_{10}	18.5	X	311.21333	220.40960	230.22216	2.94965	0.2006059	0.28935107	2.2638761	21	12 23.9	19.7
426053 2012 BA_{15}	17.2	X	83.15141	112.39578	144.60604	7.79745	0.0651465	0.26565060	2.3965998	21	10 7.7	20.3
426054 2012 BW_{22}	17.4	X	12.10814	287.02522	334.72033	17.51446	0.0560613	0.35580389	1.9724027	21	6 23.7	19.5
426055 2012 BA_{53}	17.6	X	349.56165	288.81572	137.77510	5.86878	0.0576753	0.29053779	2.2577073	21	—	—
426056 2012 BM_{53}	18.7	X	274.60516	148.49461	339.07677	4.30752	0.1537342	0.28563077	2.2834914	21	12 3.5	20.8
426057 2012 BH_{62}	18.5	X	156.44342	272.07789	132.76193	12.16198	0.2890156	0.34449509	2.0153355	21	4 5.7	21.8
426058 2012 BV_{78}	18.4	X	261.81056	341.63857	234.65807	5.52982	0.0891123	0.30395961	2.1907465	21	—	—
426059 2012 BS_{81}	17.3	X	102.85112	85.12976	127.39911	5.00107	0.1301742	0.25875768	2.4389743	21	9 7.9	20.7
426060 2012 BT_{88}	17.1	X	34.11355	134.99148	99.21911	4.65186	0.1159118	0.24551484	2.5259081	21	6 25.6	19.5
426061 2012 BY_{90}	18.0	X	206.02670	48.01218	110.73517	1.50564	0.1469853	0.27410319	2.3470733	21	10 14.4	21.2
426062 2012 BC_{92}	18.5	X	256.26950	59.61459	124.81486	3.27304	0.1031332	0.29482635	2.2357600	21	—	—
426063 2012 BC_{98}	17.1	X	216.05558	215.77569	160.84098	49.14979	0.0640253	0.34163969	2.0265493	21	4 16.6	20.6
426064 2012 BL_{112}	17.7	X	215.16556	318.64888	311.42894	3.42761	0.1634417	0.30347545	2.1930759	21	—	—
426065 2012 BM_{125}	18.5	X	290.97003	343.55435	162.78066	4.63840	0.0953022	0.29558301	2.2319429	21	—	—
426066 2012 BR_{125}	18.0	X	262.69922	235.05060	299.89450	5.31135	0.1484309	0.29323616	2.2438356	21	—	—
426067 2012 BL_{131}	17.1	X	194.53804	216.54223	343.97698	8.47595	0.0822234	0.28495687	2.2870902	21	11 30.9	20.4
426068 2012 CC_{12}	18.0	X	205.46358	201.60579	10.90656	2.28664	0.1585664	0.28482587	2.2877914	21	12 22.0	20.9
426069 2012 CC_{18}	18.0	X	108.06577	221.74990	353.09942	18.93343	0.0746348	0.36832638	1.9274399	21	9 18.7	20.0
426070 2012 CJ_{25}	18.7	X	321.25501	210.20429	252.88515	2.65562	0.0704501	0.29247977	2.2477025	21	—	—
426071 2012 CD_{29}	19.9	X	298.32451	152.41967	144.72430	19.29309	0.6486607	0.94920146	1.0254090	21	1 1.4*	21.0
426072 2012 CJ_{32}	17.9	X	165.48718	48.25352	166.18108	7.80665	0.1340110	0.27513892	2.3411794	21	11 15.8	21.5
426073 2012 CL_{45}	17.5	X	244.17514	332.19972	138.65454	7.12117	0.0690409	0.26952371	2.3735847	21	10 8.5	20.5
426074 2012 CX_{50}	18.3	X	301.23666	357.37345	172.93211	3.27979	0.1748866	0.30216771	2.1993989	21	—	—
426075 2012 DG_{3}	18.4	X	303.30020	183.77291	10.68639	5.77192	0.0856557	0.30802089	2.1714472	21	—	—
426076 2012 DF_{8}	18.2	X	275.80952	153.47009	17.34669	3.16168	0.0954011	0.29319583	2.2440414	21	—	—
426077 2012 DY_{16}	18.1	X	249.75135	56.89117	117.54369	3.92641	0.1620601	0.28645754	2.2790956	21	12 29.2	20.5
426078 2012 DB_{23}	18.0	X	255.15547	256.89770	305.49858	5.17511	0.0169755	0.29701171	2.2247796	21	—	—
426079 2012 DR_{23}	18.5	X	322.28511	178.74334	343.44397	5.02927	0.1509275	0.30409493	2.1900965	21	—	—
426080 2012 DR_{25}	18.1	X	254.96103	236.40731	29.88139	5.47109	0.1681505	0.30615367	2.1802673	21	—	—

* The additional opposition: 12 26.8, $V = 20.7$

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
426081 2012 DA_{28}	18.1	X	252.22186	97.74868	137.46073	4.58637	0.0498363	0.30567473	2.1825441	21	—	—
426082 2012 DG_{31}	20.1	X	32.26489	332.21522	135.01450	20.26934	0.1274188	0.62655177	1.3525855	21	—	—
426083 2012 DE_{39}	18.2	X	284.45490	357.00718	226.65581	1.38162	0.1402063	0.30591725	2.1813904	21	—	—
426084 2012 DO_{39}	18.6	X	261.19838	358.87984	228.49062	2.53205	0.1334784	0.30016842	2.2091543	21	—	—
426085 2012 DR_{39}	18.3	X	223.19462	46.29700	192.47478	1.98536	0.1658431	0.29054964	2.2576459	21	—	—
426086 2012 DM_{43}	18.1	X	326.28205	300.35801	156.79423	1.14649	0.0297246	0.28409561	2.2917102	21	—	—
426087 2012 DY_{44}	17.8	X	228.16560	240.06526	40.12294	6.11613	0.1918753	0.30135593	2.2033470	21	—	—
426088 2012 DF_{51}	16.8	X	218.92688	185.30100	180.88025	11.21315	0.0900510	0.22306733	2.6926427	21	4 15.1	20.9
426089 2012 DQ_{52}	17.6	X	319.45540	115.34801	336.19225	6.22837	0.1220247	0.28937541	2.2637492	21	—	—
426090 2012 DM_{66}	17.8	X	248.33174	220.76197	342.79596	6.45661	0.0403905	0.29548178	2.2324526	21	—	—
426091 2012 DN_{67}	17.3	X	179.25620	204.44341	51.18420	8.14400	0.0716070	0.28286742	2.2983390	21	—	—
426092 2012 DD_{80}	18.3	X	350.77572	53.00266	126.39170	2.86746	0.0312235	0.31808485	2.1254003	21	1 11.6	20.5
426093 2012 DQ_{83}	17.1	X	189.54398	147.35645	144.60271	7.07573	0.1171045	0.29611792	2.2292542	21	—	—
426094 2012 DB_{88}	17.7	X	329.43583	236.53791	232.38952	4.00594	0.0814245	0.29562037	2.2317548	21	—	—
426095 2012 DE_{98}	17.8	X	231.09767	41.12177	85.91819	3.16406	0.1342107	0.27145846	2.3622931	21	10 3.1	20.9
426096 2012 EZ_{3}	17.8	X	306.67560	16.65069	85.33489	2.82475	0.1314869	0.28515486	2.2860314	21	12 30.7	19.8
426097 2012 EU_{4}	18.1	X	228.14504	186.82508	11.31968	5.71669	0.0656933	0.28483952	2.2877183	21	—	—
426098 2012 EE_{15}	17.3	X	211.64377	100.68087	130.58598	8.74756	0.1545896	0.28594255	2.2818313	21	—	—
426099 2012 EL_{17}	16.4	X	343.66180	182.48261	122.23019	8.95755	0.1671774	0.23924006	2.5698835	21	7 2.9	18.9
426100 2012 FM_{11}	17.0	X	266.53666	47.29277	79.46621	8.81137	0.1361927	0.27881754	2.3205414	21	11 21.6	19.6
426101 2012 FL_{12}	17.9	X	188.24562	132.31356	147.21971	2.27263	0.1166721	0.29314620	2.2442946	21	—	—
426102 2012 FV_{21}	18.4	X	238.87249	140.25793	73.68367	2.52015	0.0785822	0.29161426	2.2521477	21	—	—
426103 2012 FC_{23}	16.4	X	262.62748	151.62390	73.81511	25.16087	0.2403761	0.29318484	2.2440974	21	—	—
426104 2012 FW_{28}	18.3	X	295.95475	135.09315	43.55113	2.55221	0.1656636	0.29947603	2.2125580	21	—	—
426105 2012 FC_{34}	18.2	X	291.05189	126.24965	72.82983	4.32856	0.0920535	0.30109346	2.2046272	21	—	—
426106 2012 FD_{34}	18.2	X	274.19526	144.90911	119.95258	4.86902	0.1255593	0.31221058	2.1519771	21	1 18.3	21.0
426107 2012 FT_{43}	16.7	X	31.52437	8.39253	206.58653	13.44506	0.1920571	0.22478788	2.6788853	21	6 1.4	19.4
426108 2012 FH_{49}	18.3	X	174.63102	112.34635	162.09512	7.14959	0.1155169	0.28703544	2.2760355	21	—	—
426109 2012 FL_{50}	18.4	X	4.39179	333.65806	125.43304	3.79059	0.1070960	0.29889987	2.2154004	21	—	—
426110 2012 FU_{54}	17.8	X	154.71644	243.00117	32.91424	5.55407	0.1997655	0.27381029	2.3487468	21	—	—
426111 2012 FK_{55}	16.9	X	264.12985	154.68695	134.39760	5.09142	0.0361780	0.21215693	2.7841838	21	3 5.6	20.8
426112 2012 FN_{58}	17.9	X	203.52799	262.70231	284.27354	1.48110	0.1534923	0.27246544	2.3564692	21	11 15.2	21.2
426113 2012 FF_{61}	16.8	X	48.04760	333.12743	169.34110	6.81125	0.0469271	0.21378627	2.7700196	21	3 7.8	20.1
426114 2012 FH_{61}	17.9	X	278.24558	48.98891	132.58257	4.06028	0.0752128	0.29234763	2.2483797	21	—	—
426115 2012 FZ_{61}	17.7	X	224.85766	146.50573	86.89102	3.58887	0.1262148	0.28527305	2.2854000	21	—	—
426116 2012 FN_{67}	16.9	X	210.65232	114.61896	90.66808	7.37451	0.0826649	0.27403732	2.3474494	21	12 26.6	19.8
426117 2012 FJ_{68}	17.3	X	321.68235	159.20713	159.35198	12.26623	0.0675967	0.23916127	2.5704479	21	6 24.0	20.7
426118 2012 FQ_{68}	18.1	X	2.91019	305.67560	113.65175	6.25382	0.0673994	0.28495932	2.2870771	21	—	—
426119 2012 FW_{70}	17.7	X	203.47214	31.47830	192.37982	4.96571	0.1564015	0.27885978	2.3203071	21	—	—
426120 2012 GN_{3}	17.8	X	238.75004	173.33590	71.67904	1.78997	0.0633833	0.29553870	2.2321660	21	—	—
426121 2012 GN_{7}	17.8	X	236.82574	196.91426	8.86714	6.21419	0.0519861	0.28245656	2.3005673	21	—	—
426122 2012 GH_{10}	16.7	X	352.20147	238.27591	17.01602	12.04654	0.1648181	0.22393667	2.6856695	21	5 2.9	19.6
426123 2012 GC_{11}	18.2	X	178.48608	235.64129	5.97340	6.96128	0.0717822	0.27795774	2.3253243	21	—	—
426124 2012 GV_{14}	16.5	X	241.96603	136.50010	208.75005	5.64242	0.0165192	0.22130671	2.7069049	21	4 18.9	20.1
426125 2012 GQ_{19}	16.9	X	353.06570	204.79671	32.97992	14.58947	0.1370919	0.21924823	2.7238215	21	4 16.9	19.7
426126 2012 GJ_{20}	16.1	X	325.08660	133.75269	121.54137	9.88392	0.1132631	0.21739437	2.7392848	21	4 1.7	19.7
426127 2012 GF_{23}	17.6	X	307.67411	168.95665	34.49011	6.97484	0.1309409	0.30601508	2.1809255	21	—	—
426128 2012 GZ_{23}	18.1	X	285.29553	131.32927	26.35298	6.77344	0.1230286	0.28911528	2.2651068	21	—	—
426129 2012 GR_{31}	18.1	X	47.10211	120.61785	355.11275	2.87435	0.0325648	0.30714541	2.1755715	21	1 8.6	20.3
426130 2012 GW_{32}	17.5	X	80.58138	166.13241	145.28278	1.85453	0.1963501	0.26302419	2.4125274	21	12 25.1	21.1
426131 2012 GZ_{39}	16.8	X	8.41206	84.86826	173.96606	12.62297	0.1904063	0.22669004	2.6638786	21	6 17.0	19.5
426132 2012 GN_{40}	17.2	X	192.15771	139.72406	96.75683	23.34923	0.1937118	0.27956158	2.3164223	21	—	—
426133 2012 HP_{17}	16.7	X	58.14187	153.97030	90.15804	10.74467	0.1583542	0.23657115	2.5891757	21	8 30.7	20.1
426134 2012 HL_{21}	16.8	X	359.23290	75.45165	118.39141	4.95090	0.0397364	0.21006118	2.8026714	21	3 8.1	20.4
426135 2012 HX_{22}	16.7	X	28.87680	231.62276	83.78769	13.82920	0.2777722	0.23968408	2.5667087	21	11 12.8	19.8
426136 2012 HD_{23}	16.5	X	6.95441	98.56589	167.06631	13.59596	0.1686002	0.22762316	2.6565934	21	6 23.6	19.4
426137 2012 HU_{25}	16.4	X	342.36413	170.79508	49.28858	13.72537	0.1109532	0.21473570	2.7618487	21	3 15.8	20.0
426138 2012 HJ_{26}	18.2	X	201.49204	55.02306	158.88970	2.41388	0.1604529	0.27428313	2.3460467	21	12 17.4	21.5
426139 2012 HU_{28}	17.9	X	211.16887	123.11130	104.41693	7.00195	0.1622236	0.27986978	2.3147213	21	—	—
426140 2012 HJ_{29}	16.2	X	9.93457	4.47834	227.80278	16.11072	0.0731536	0.21702622	2.7423818	21	5 10.7	19.4
426141 2012 HG_{30}	17.3	X	201.16660	114.93568	66.39247	8.62357	0.0437675	0.26385920	2.4074349	21	11 17.1	20.4
426142 2012 HH_{30}	17.7	X	172.76024	177.70047	96.92068	4.00264	0.2072937	0.27697852	2.3308017	21	—	—
426143 2012 HC_{32}	15.5	X	97.58262	267.67694	102.29472	15.00954	0.1137171	0.17664183	3.1458669	21	—	—
426144 2012 HK_{33}	16.8	X	246.83009	132.14947	40.51324	22.81949	0.0383495	0.27752131	2.3277616	21	—	—
426145 2012 HD_{37}	17.7	X	328.10377	348.52894	79.88953	5.96408	0.1288166	0.27296466	2.3535952	21	12 17.8	19.8
426146 2012 HZ_{38}	17.3	X	347.06820	223.66588	72.48394	3.17119	0.1866054	0.22516713	2.6758764	21	6 25.6	19.5
426147 2012 HA_{39}	16.1	X	198.53345	206.95235	58.50014	11.95068	0.1039520	0.17460007	3.1703443	21	—	—
426148 2012 HT_{39}	17.4	X	187.46849	136.48806	101.51952	2.24585	0.1992834	0.27493743	2.3423231	21	12 29.7	21.0
426149 2012 HQ_{40}	17.7	X	160.21311	217.30748	58.31884	6.90604	0.1036931	0.27546445	2.3393346	21	—	—
426150 2012 HG_{45}	17.0	X	321.40290	55.89654	203.88265	9.66464	0.0733993	0.21351246	2.7723873	21	4 3.1	20.6
426151 2012 HM_{46}	16.9	X	343.94749	220.19981	63.69307	15.33837	0.2151744	0.22281810	2.6946503	21	5 26.8	19.1
426152 2012 HA_{52}	16.4	X	77.76493	104.95537	61.15026	29.86489	0.1334138	0.23198733	2.6231706	21	5 30.1	19.7
426153 2012 HU_{53}	17.7	X	227.90688	91.49120	92.78264	3.70102	0.1715471	0.27659195	2.3329729	21	12 8.4	20.7
426154 2012 HA_{54}	17.0	X	15.60882	157.31437	76.80745	6.64286	0.0841858	0.22472324	2.6793990	21	5 22.8	20.1
426155 2012 HT_{56}	17.9	X	200.64732	179.14261	43.70563	6.41178	0.1125848	0.27681067	2.3317438	21	—	—
426156 2012 HC_{58}	16.5	X	77.85427	89.35309	120.96028	10.93647	0.0541835	0.23294749	2.6159576	21	7 20.8	19.9
426157 2012 HO_{59}	17.5	X	242.78675	161.03615	83.34401	4.87707	0.1458974	0.29081559	2.2562693	21	—	—
426158 2012 HQ_{59}	17.1	X	30.28372	131.90108	169.68287	4.52699	0.1785849	0.23981169	2.5657981	21	10 6.9	19.8
426159 2012 HX_{64}	18.1	X	163.20034	148.01246	139.48017	3.65983	0.1670736	0.27793829	2.3254328	21	—	—
426160 2012 HK_{71}	17.8	X	182.75155	25.72144	218.91431	5.66063	0.0872502	0.27489799	2.3425471	21	—	—

Planet		H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
		m		°	°	°	°		°				
426161	2012 HZ_{72}	17.6	X	168.08871	240.13445	40.29806	7.52934	0.1075713	0.28235365	2.3011262	21	—	—
426162	2012 HK_{73}	17.2	X	350.44764	138.91132	187.76600	6.68732	0.2495424	0.23341712	2.6124475	21	8 20.8	19.1
426163	2012 HT_{74}	17.6	X	155.86200	158.53200	72.55630	6.82854	0.0801267	0.26360638	2.4089739	21	11 25.4	20.9
426164	2012 HN_{77}	16.7	X	151.66414	274.87135	223.96814	13.80386	0.0376192	0.23429677	2.6059046	21	7 14.4	20.7
426165	2012 HR_{77}	18.4	X	192.25949	173.53195	49.28298	3.40530	0.1510168	0.27203943	2.3589287	21	12 19.3	21.9
426166	2012 HW_{77}	17.7	X	188.06796	0.28587	231.30849	6.89822	0.1548164	0.27399521	2.3476899	21	12 25.7	21.1
426167	2012 JN	16.4	X	181.48987	319.11872	258.60139	22.81055	0.2713142	0.27031536	2.3689482	21	11 24.4	20.5
426168	2012 JT_{1}	17.1	X	36.72503	64.02034	180.53446	7.19313	0.1792823	0.22901828	2.6457935	21	7 23.2	20.1
426169	2012 JK_{2}	17.1	X	164.39641	157.18927	129.17468	6.86732	0.0995683	0.28168446	2.3047693	21	—	—
426170	2012 JY_{2}	17.9	X	270.89667	139.28714	43.76470	4.94063	0.1155871	0.28524191	2.2855663	21	—	—
426171	2012 JK_{3}	17.8	X	227.45538	11.33928	217.93627	1.85433	0.1897306	0.28643033	2.2792400	21	—	—
426172	2012 JJ_{4}	17.3	X	348.30354	40.66813	110.43218	6.65587	0.0852912	0.29862208	2.2167741	21	—	—
426173	2012 JV_{7}	18.1	X	226.45575	344.91648	228.98477	2.33864	0.1333035	0.27965896	2.3158845	21	—	—
426174	2012 JG_{9}	17.6	X	169.11314	187.26902	59.32528	2.91360	0.0789042	0.26986701	2.3715713	21	12 30.8	21.0
426175	2012 JQ_{10}	18.0	X	145.02881	175.72272	74.59416	4.20413	0.1917783	0.26235545	2.4166253	21	12 6.4	21.9
426176	2012 JZ_{12}	16.0	X	226.38427	165.24630	130.47349	10.19106	0.0854089	0.19091369	2.9870650	21	1 29.7	20.5
426177	2012 JB_{13}	16.0	X	189.75806	314.76508	61.34314	12.54392	0.0771997	0.20490999	2.8494473	21	4 2.9	20.4
426178	2012 JT_{15}	16.7	X	344.86744	99.91671	152.11577	9.37741	0.0538198	0.21483872	2.7609657	21	5 3.3	20.3
426179	2012 JK_{18}	17.6	X	41.26478	22.81972	235.65451	3.17944	0.1529550	0.23621031	2.5918119	21	8 17.2	20.5
426180	2012 JX_{18}	17.9	X	134.69344	40.51400	209.81320	0.87416	0.1440022	0.26114586	2.4240819	21	11 27.2	21.6
426181	2012 JE_{21}	16.6	X	17.23311	320.18858	305.73267	11.63424	0.2538884	0.22763583	2.6564948	21	7 26.5	18.4
426182	2012 JQ_{23}	16.2	X	78.45192	107.66052	104.93775	15.96135	0.0716049	0.23117176	2.6293367	21	7 28.5	19.7
426183	2012 JO_{25}	16.8	X	303.01830	241.39166	61.26450	5.91443	0.1440122	0.21491735	2.7602922	21	4 25.5	20.5
426184	2012 JP_{27}	18.1	X	253.89484	72.20488	103.28204	3.03409	0.1482295	0.27690543	2.3312118	21	—	—
426185	2012 JF_{34}	17.2	X	71.69062	219.35428	32.39721	5.72330	0.1848593	0.24094314	2.5577593	21	9 29.2	20.7
426186	2012 JS_{38}	16.6	X	315.75238	71.69678	203.12410	9.90359	0.0535100	0.21466741	2.7624344	21	4 18.9	20.1
426187	2012 JV_{41}	16.9	X	277.92197	263.34425	60.14637	9.89447	0.1525366	0.21246304	2.7815089	21	4 21.4	20.9
426188	2012 JJ_{42}	17.3	X	305.23639	127.68027	180.03332	3.32777	0.1847469	0.21696633	2.7428864	21	4 28.2	20.7
426189	2012 JP_{42}	17.7	X	130.19605	62.34139	236.42133	5.79573	0.1221128	0.27162357	2.3613358	21	—	—
426190	2012 JB_{46}	16.7	X	80.65366	122.67437	89.80466	8.39132	0.1428096	0.23467760	2.6030846	21	8 13.1	20.3
426191	2012 JQ_{48}	17.4	X	166.63301	247.96736	68.40444	8.25607	0.1402464	0.28888901	2.2662894	21	—	—
426192	2012 JR_{50}	17.3	X	275.37757	178.27436	212.02779	7.00214	0.0222518	0.24108488	2.5567567	21	7 30.9	20.8
426193	2012 JE_{58}	16.9	X	275.52943	268.08096	67.42337	9.86509	0.2259139	0.21750647	2.7383435	21	4 24.6	21.1
426194	2012 JP_{63}	18.1	X	307.82289	90.46530	54.09523	6.49051	0.2000847	0.28951620	2.2630152	21	—	—
426195	2012 JY_{66}	16.9	X	12.12511	59.86503	244.81385	13.89607	0.1124703	0.23392960	2.6086307	21	8 21.7	20.2
426196	2012 KQ	18.1	X	125.18400	203.11746	83.06631	3.37483	0.1755923	0.26734573	2.3864585	21	—	—
426197	2012 KV_{1}	17.3	X	334.13223	97.75858	158.55478	5.39953	0.0930537	0.21685912	2.7437904	21	4 16.8	20.6
426198	2012 KK_{2}	16.7	X	53.45161	136.48541	146.84927	13.57414	0.2370673	0.23955072	2.5676613	21	10 28.9	20.4
426199	2012 KS_{2}	17.0	X	60.93987	6.13112	204.67850	12.60172	0.2217777	0.22940900	2.6427885	21	7 20.9	20.5
426200	2012 KU_{2}	17.2	X	74.21550	72.97985	143.36539	5.28814	0.1026476	0.23510588	2.5999224	21	7 31.6	20.6
426201	2012 KN_{10}	16.7	X	156.32441	353.66683	93.69862	7.35023	0.0203250	0.21729227	2.7401428	21	5 16.6	20.5
426202	2012 KB_{12}	16.1	X	218.04615	309.08225	118.92526	22.60457	0.0347001	0.22871759	2.6481119	21	7 6.7	19.8
426203	2012 KD_{20}	18.5	X	136.84628	147.07305	138.12862	2.54625	0.2070716	0.26866580	2.3786350	21	—	—
426204	2012 KM_{23}	15.7	X	175.40880	186.86812	117.19373	30.32090	0.1655451	0.17471312	3.1689766	21	—	—
426205	2012 KA_{25}	17.0	X	237.39101	351.49837	66.64416	3.46701	0.0810593	0.23912620	2.5706993	21	7 12.5	20.6
426206	2012 KE_{33}	18.2	X	228.75716	112.38674	92.16517	2.75458	0.1852801	0.27941858	2.3172125	21	—	—
426207	2012 KV_{33}	17.8	X	335.21786	40.11796	115.48003	4.63529	0.1019117	0.29532735	2.2332308	21	—	—
426208	2012 KP_{35}	18.2	X	155.14845	128.03495	154.05443	3.24606	0.1757922	0.27535049	2.3399800	21	—	—
426209	2012 KG_{39}	17.8	X	58.76342	150.48588	158.46323	5.24081	0.1969211	0.25181897	2.4835739	21	11 29.4	21.3
426210	2012 KM_{40}	17.9	X	46.51295	332.67986	141.18058	4.26186	0.0963261	0.30290921	2.1958082	21	1 3.4	19.9
426211	2012 KV_{45}	16.3	X	325.61602	191.00290	132.12832	16.52561	0.1457041	0.22270460	2.6955657	21	6 28.3	19.5
426212	2012 KF_{46}	16.4	X	39.44732	32.01389	210.59244	13.46862	0.2192390	0.22682318	2.6628360	21	7 28.9	19.6
426213	2012 KL_{46}	15.7	X	326.62118	337.27257	247.09683	19.31441	0.1243146	0.20283187	2.8688770	21	2 9.6	19.9
426214	2012 KO_{46}	15.8	X	233.07187	167.58826	83.57313	16.28560	0.1548656	0.17878981	3.1206199	21	—	—
426215	2012 KY_{46}	17.6	X	160.66649	170.58434	86.45310	7.17238	0.1842335	0.26690391	2.3890913	21	12 28.5	21.4
426216	2012 KJ_{49}	16.5	X	321.53486	231.77424	110.00133	15.05370	0.0969253	0.22890918	2.6466341	21	7 23.9	19.6
426217	2012 KM_{49}	16.9	X	318.11034	204.21546	107.53000	6.05404	0.1033489	0.22045616	2.7138628	21	6 4.8	20.3
426218	2012 KL_{50}	16.6	X	15.94384	196.60129	116.45215	16.66594	0.2822803	0.23298740	2.6156588	21	10 21.9	19.5
426219	2012 LL_{6}	16.6	X	289.71032	207.00955	102.92211	10.48970	0.1451179	0.21027488	2.8007722	21	4 21.7	20.7
426220	2012 LT_{8}	16.1	X	171.92677	237.91798	123.55370	11.81177	0.1144168	0.19186947	2.9771368	21	2 25.5	20.8
426221	2012 LQ_{12}	16.6	X	67.28910	353.95733	276.35017	10.01058	0.0873102	0.23399656	2.6081330	21	9 25.7	20.3
426222	2012 LS_{15}	17.1	X	141.69112	35.30964	141.70735	9.06855	0.1637378	0.24345759	2.5401177	21	9 3.2	21.1
426223	2012 LA_{18}	16.8	X	267.31619	244.94154	116.49550	7.14544	0.0571032	0.22132431	2.7067614	21	6 7.9	20.5
426224	2012 LH_{24}	16.6	X	37.38330	181.49409	107.72015	12.63770	0.0812367	0.22964745	2.6409588	21	9 19.8	20.1
426225	2012 LM_{24}	16.8	X	311.03223	127.68209	179.02139	8.66070	0.1604892	0.21583737	2.7524427	21	5 10.5	20.3
426226	2012 LA_{25}	15.3	X	147.64023	230.27780	114.98883	27.94371	0.1370266	0.17707397	3.1407467	21	1 15.8	20.2
426227	2012 MT_{1}	17.7	X	180.42769	147.44840	126.20021	4.48583	0.1931882	0.27055879	2.3675270	21	—	—
426228	2012 MC_{5}	16.8	X	93.20437	17.14452	182.48177	13.42379	0.0921058	0.23055447	2.6340278	21	7 29.9	20.7
426229	2012 MW_{8}	16.3	X	146.25853	283.35036	275.35155	12.46932	0.1162159	0.23765661	2.5812860	21	9 25.0	20.5
426230	2012 MA_{9}	15.6	X	231.33062	192.64257	125.53560	23.07946	0.0997142	0.18610751	3.0382729	21	3 6.3	20.5
426231	2012 OS_{1}	16.5	X	188.09349	189.13188	166.69810	11.21724	0.2151718	0.17739297	3.1369803	21	3 7.9	21.7
426232	2012 OL_{2}	16.1	X	178.45214	149.87588	231.44721	5.69221	0.0571089	0.18481878	3.0523804	21	3 21.4	20.7
426233	2012 OT_{2}	16.0	X	195.63053	118.77410	222.31812	10.65396	0.1375133	0.17838772	3.1253075	21	2 19.9	21.2
426234	2012 OZ_{2}	16.9	X	23.98360	189.47055	102.73971	11.59256	0.2618325	0.22547127	2.6734696	21	9 29.8	19.8
426235	2012 OD_{3}	17.6	X	130.39383	235.50085	53.93928	3.02441	0.2062925	0.25881140	2.4386367	21	—	—
426236	2012 PX_{3}	16.2	X	359.94155	205.78240	321.78120	7.35700	0.0178140	0.16786622	3.2545717	21	2 11.3	20.7
426237	2012 PX_{4}	15.6	X	182.68250	65.19845	301.10908	8.28775	0.0748893	0.17809991	3.1286736	21	3 7.9	20.4
426238	2012 PR_{9}	16.6	X	83.65283	247.37931	215.93147	8.42889	0.0621307	0.17578111	3.1561278	21	3 11.8	21.0
426239	2012 PD_{10}	15.7	X	25.50290	248.46634	254.10659	7.73105	0.0865019	0.17072457	3.2181432	21	2 9.6	19.9
426240	2012 PL_{14}	16.6	X	254.54033	143.62804	172.82955	11.63949	0.1915152	0.18379350	3.0637215	21	3 16.0	21.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
426241 2012 PE_{16}	16.3	X	256.97978	111.49143	174.69851	4.56987	0.2764956	0.18280040	3.0748077	21	2 4.5	21.7
426242 2012 PN_{16}	16.8	X	84.81403	275.86545	7.74540	17.54860	0.1444411	0.23845191	2.5755433	21	11 10.2	20.9
426243 2012 PE_{17}	15.5	X	165.46689	258.08315	171.35017	27.31966	0.0935389	0.18503581	3.0499931	21	5 13.2	20.6
426244 2012 PB_{18}	15.8	X	92.39685	150.98235	279.02783	10.77901	0.0594705	0.17287354	3.1914181	21	2 9.5	20.3
426245 2012 PG_{20}	16.3	X	263.07471	114.25738	168.33175	10.47856	0.0849878	0.18014771	3.1049186	21	2 21.7	21.0
426246 2012 PA_{22}	16.2	X	246.79839	21.92319	269.85627	5.61670	0.1312352	0.17905930	3.1174881	21	2 11.2	21.2
426247 2012 PS_{27}	16.5	X	124.67006	84.98555	146.30110	16.75452	0.1381299	0.23414131	2.6070580	21	10 27.3	20.9
426248 2012 PJ_{30}	16.9	X	136.28767	239.94319	50.48643	2.69451	0.1692577	0.25541011	2.4602392	21	—	—
426249 2012 PS_{33}	15.7	X	237.35330	341.41854	306.05810	17.78336	0.0769032	0.17438836	3.1729098	21	2 1.8	20.6
426250 2012 PT_{36}	15.9	X	230.73926	323.51621	326.23425	2.66877	0.1266204	0.17306900	3.1890148	21	1 28.4	20.9
426251 2012 PT_{37}	15.9	X	200.54249	1.81047	340.67340	8.82753	0.0790706	0.17622323	3.1508468	21	3 1.8	20.7
426252 2012 PQ_{38}	17.1	X	59.40022	160.06731	165.02570	11.10428	0.0641444	0.23973169	2.5663689	21	12 1.4	20.8
426253 2012 PE_{44}	15.9	X	279.80591	254.56258	359.73675	9.66339	0.0482418	0.17466708	3.1695335	21	2 15.7	20.5
426254 2012 QP	16.4	X	80.35827	206.12350	331.17905	10.73955	0.0458177	0.20265653	2.8705315	21	6 7.2	20.5
426255 2012 QU_{2}	16.4	X	173.44430	309.96020	28.57732	24.41207	0.3294540	0.27334341	2.3514205	21	2 12.4	21.1
426256 2012 QT_{20}	16.3	X	340.66604	272.96106	347.30602	8.15508	0.0258443	0.18813886	3.0163637	21	5 6.4	20.5
426257 2012 QB_{23}	15.7	X	132.70141	88.08691	337.11168	11.06949	0.0391430	0.17449833	3.1715766	21	3 21.7	20.3
426258 2012 QB_{25}	15.7	X	353.51712	214.57518	345.99581	17.88457	0.0677781	0.17447269	3.1718873	21	3 9.8	19.8
426259 2012 QG_{25}	16.7	X	43.21491	319.10209	326.02677	5.58353	0.0347609	0.21617328	2.7495907	21	9 7.6	20.3
426260 2012 QG_{28}	16.2	X	118.75805	255.04588	177.58242	10.77888	0.0498878	0.17097966	3.2149416	21	3 19.3	20.7
426261 2012 QS_{29}	17.0	X	46.25993	298.93203	340.01459	10.72938	0.2802902	0.22570263	2.6716422	21	10 9.4	20.6
426262 2012 QO_{38}	15.7	X	310.51862	110.18079	162.14074	15.41671	0.1678005	0.18967875	3.0000161	21	3 27.5	19.7
426263 2012 QW_{38}	15.7	X	245.66730	13.10704	303.86338	10.13433	0.0706109	0.18020284	3.1042853	21	3 13.5	20.5
426264 2012 QA_{39}	16.4	X	6.53781	131.23870	179.12416	16.48721	0.1963866	0.21773731	2.7364078	21	8 30.6	19.2
426265 2012 QZ_{41}	16.0	X	245.74926	52.88219	266.42829	9.19826	0.2442065	0.18453304	3.0555305	21	3 3.6	21.4
426266 2012 QB_{43}	15.3	X	275.68717	288.23524	303.17714	14.85286	0.0329231	0.16849834	3.2464269	21	1 15.9	20.1
426267 2012 QQ_{51}	16.7	X	79.38982	189.42847	127.14294	8.19734	0.2800474	0.24227206	2.5483974	21	—	—
426268 2012 RR_{5}	16.5	X	239.92916	160.56113	177.36493	6.53742	0.1329811	0.18390954	3.0624327	21	4 1.8	21.3
426269 2012 RF_{27}	15.9	X	222.76641	244.72293	177.06864	18.00115	0.1446903	0.20057640	2.8903437	21	6 24.5	20.8
426270 2012 RK_{32}	17.1	X	78.51796	151.98297	167.73004	12.71370	0.1723499	0.24061913	2.5600549	21	12 27.3	21.2
426271 2012 RY_{37}	15.6	X	264.59683	319.26900	344.02647	11.42511	0.1329865	0.17873206	3.1212921	21	3 14.6	20.4
426272 2012 RS_{40}	15.9	X	72.08489	343.62847	309.74348	11.73907	0.1434990	0.23115792	2.6294416	21	11 9.6	19.9
426273 2012 SL_{4}	16.3	X	280.05421	250.57980	56.12503	4.63650	0.1553287	0.18432471	3.0578323	21	4 4.1	20.8
426274 2012 SD_{8}	16.2	X	324.77649	280.11734	343.71310	7.61130	0.0689021	0.18617528	3.0375355	21	4 14.8	20.4
426275 2012 SX_{17}	16.0	X	102.91182	294.17724	200.74628	8.71872	0.0565778	0.18076805	3.0978111	21	5 17.3	20.4
426276 2012 SL_{23}	16.6	X	169.87957	64.02707	36.82091	6.23714	0.0344259	0.19107153	2.9854197	21	6 19.8	20.9
426277 2012 SD_{31}	16.7	X	0.86585	319.12118	25.61402	6.43561	0.0590386	0.21284874	2.7781477	21	10 1.0	20.2
426278 2012 SB_{34}	16.5	X	216.49469	355.48858	358.51396	10.43229	0.0774312	0.17789544	3.1310705	21	3 30.3	21.2
426279 2012 SX_{52}	16.1	X	237.79549	108.03183	206.28947	8.73308	0.0609873	0.17444733	3.1721946	21	3 5.7	21.0
426280 2012 SL_{55}	16.3	X	281.28290	95.25737	194.11408	9.24493	0.0540482	0.17516776	3.1634910	21	3 27.5	20.6
426281 2012 SP_{61}	16.4	X	98.49431	70.89969	169.43045	4.01625	0.0405617	0.21951967	2.7215757	21	9 24.1	20.0
426282 2012 TU_{23}	15.8	X	281.97631	355.99828	332.30056	8.91001	0.1130260	0.19072112	2.9890753	21	5 2.9	20.2
426283 2012 TK_{25}	16.7	X	68.26845	107.90794	191.83012	11.30583	0.1955601	0.23019387	2.6367779	21	11 25.0	20.7
426284 2012 TJ_{26}	16.0	X	255.82776	339.35300	351.45044	13.38260	0.0686768	0.18443882	3.0565711	21	4 10.7	20.6
426285 2012 TW_{31}	16.0	X	254.04655	304.04354	13.52234	9.62987	0.0833625	0.17493949	3.1662423	21	3 28.1	20.5
426286 2012 TL_{36}	16.5	X	174.77745	235.21301	189.00597	20.71330	0.1467507	0.18649527	3.0340600	21	5 15.9	21.7
426287 2012 TF_{41}	15.5	X	254.36057	295.98173	352.95735	16.02518	0.0780434	0.16834333	3.2484195	21	2 26.2	20.3
426288 2012 TA_{51}	16.5	X	282.94638	280.57737	20.46829	1.40833	0.1804103	0.18351969	3.0667681	21	3 26.7	21.1
426289 2012 TE_{52}	14.3	X	309.19445	33.13758	294.82229	5.35672	0.0679497	0.08450351	5.1430360	21	6 21.0	20.9
426290 2012 TC_{58}	15.8	X	251.89917	294.00087	6.64474	16.19289	0.0984101	0.17060313	3.2196702	21	3 8.2	20.7
426291 2012 TF_{70}	16.3	X	265.47600	199.67456	123.79607	2.05698	0.1623129	0.18154796	3.0889329	21	4 7.5	20.9
426292 2012 TA_{74}	13.6	X	272.45860	155.62883	200.22947	24.23282	0.0371446	0.08044161	5.3147423	21	6 12.5	20.9
426293 2012 TH_{82}	15.9	X	320.29719	233.78323	15.22111	16.46554	0.1701873	0.18054594	3.1003513	21	3 15.1	20.0
426294 2012 TA_{84}	16.1	X	268.58260	80.90580	203.62765	15.43276	0.2066259	0.17398467	3.1778159	21	2 15.2	21.4
426295 2012 TV_{90}	16.3	X	242.38440	153.47710	169.02698	8.01053	0.1617293	0.17735063	3.1374795	21	3 15.1	21.4
426296 2012 TB_{94}	16.6	X	285.42931	145.87831	152.43637	4.80638	0.1561972	0.18420681	3.0591370	21	3 30.4	21.0
426297 2012 TD_{108}	15.7	X	227.23515	275.28375	13.89128	10.13025	0.0422416	0.15362515	3.4527185	21	2 3.3	20.9
426298 2012 TH_{119}	16.4	X	63.17455	58.63176	235.05803	8.40414	0.1582194	0.22380088	2.6867558	21	11 4.0	20.0
426299 2012 TF_{128}	16.0	X	89.26089	7.04689	138.96001	6.37138	0.0890928	0.17970375	3.1100304	21	5 19.7	20.4
426300 2012 TE_{131}	17.3	X	173.79516	117.02353	192.09066	4.33257	0.1995913	0.26427375	2.4049166	21	—	—
426301 2012 TM_{136}	17.2	X	132.48286	215.66541	60.44157	5.78404	0.2103714	0.24423850	2.5347004	21	12 24.3	21.4
426302 2012 TG_{139}	16.0	X	231.04656	42.34660	339.45736	10.17802	0.0971296	0.18522465	3.0479197	21	5 14.7	20.9
426303 2012 TG_{145}	16.2	X	45.94894	206.87728	354.05241	10.10529	0.0359386	0.19069024	2.9893980	21	5 19.1	20.4
426304 2012 TP_{162}	16.0	X	31.60190	22.25335	197.93994	10.28751	0.0427863	0.18384198	3.0631828	21	5 29.5	20.2
426305 2012 TO_{163}	16.2	X	264.56017	245.54393	72.10125	6.08171	0.1263366	0.17861697	3.1226327	21	4 5.6	21.0
426306 2012 TB_{164}	15.9	X	228.94570	160.79504	155.60648	5.85856	0.1244679	0.16744181	3.2600689	21	2 26.9	20.9
426307 2012 TP_{165}	16.2	X	311.37657	161.53591	117.09600	2.25242	0.1575323	0.18543892	3.0455714	21	4 6.7	20.1
426308 2012 TE_{166}	16.0	X	322.08661	181.85069	100.90651	6.11258	0.1685943	0.18777804	3.0202265	21	4 27.3	19.8
426309 2012 TA_{176}	16.4	X	92.13419	298.97934	199.89736	5.66374	0.0767684	0.17904235	3.1176848	21	5 11.5	20.7
426310 2012 TX_{186}	15.9	X	219.12569	347.81529	51.57379	10.07968	0.1178595	0.17863159	3.1224624	21	5 25.6	20.9
426311 2012 TT_{201}	13.9	X	326.12296	262.13685	34.90955	12.91775	0.0779995	0.08136618	5.2744043	21	6 3.8	20.7
426312 2012 TA_{215}	17.8	X	203.66987	236.13190	51.40638	3.60078	0.1775472	0.26888595	2.3773364	21	—	—
426313 2012 TD_{224}	15.9	X	291.31156	290.40327	20.64977	21.80454	0.0496073	0.18540500	3.0459429	21	4 30.6	20.3
426314 2012 TD_{243}	16.7	X	62.59012	105.49267	161.79658	4.55318	0.0641051	0.21029838	2.8005635	21	9 15.7	20.3
426315 2012 TJ_{259}	16.8	X	11.39962	106.65867	171.33776	2.14027	0.0234609	0.20184819	2.8781901	21	7 14.1	20.7
426316 2012 TY_{264}	16.0	X	335.17960	97.19604	128.96040	2.23030	0.0911130	0.16895793	3.2405371	21	3 16.1	20.3
426317 2012 TJ_{271}	16.0	X	291.81912	229.25670	78.60493	3.96609	0.1703950	0.18584125	3.0411743	21	4 16.8	20.2
426318 2012 TC_{310}	16.3	X	284.31249	51.47713	294.95515	10.00768	0.1469961	0.19234612	2.9722164	21	5 26.8	20.5
426319 2012 TM_{315}	16.4	X	110.04796	257.09159	99.73447	10.20500	0.2789801	0.25784528	2.4447245	21	—	—
426320 2012 UM_{2}	16.1	X	336.80455	181.11511	124.86999	3.08060	0.0819683	0.19735629	2.9216985	21	6 29.1	19.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
426321 2012 UF_{16}	17.2	X	68.39106	255.61610	35.29610	12.05889	0.1910922	0.22479467	2.6788314	21	11 10.1	21.2
426322 2012 UY_{34}	16.2	X	238.23147	148.05412	176.69237	6.71169	0.1307828	0.16991647	3.2283385	21	3 16.4	21.4
426323 2012 UG_{94}	16.0	X	333.27328	125.19883	139.82775	6.84508	0.0863972	0.18240497	3.0792499	21	5 2.7	20.0
426324 2012 UR_{94}	16.7	X	97.98651	146.94829	165.05153	9.01310	0.1700262	0.23877338	2.5732310	21	—	—
426325 2012 UE_{128}	16.3	X	325.87315	350.11029	300.32184	8.12053	0.1254098	0.18779735	3.0200195	21	5 14.8	20.3
426326 2012 US_{137}	14.0	X	289.46250	143.36164	199.84806	28.75295	0.0615001	0.08200563	5.2469503	21	6 13.6	21.2
426327 2012 UD_{139}	15.9	X	252.84909	311.49574	7.48145	10.74220	0.1226427	0.17588816	3.1548471	21	3 24.4	20.8
426328 2012 UP_{139}	15.9	X	351.80238	291.52208	326.61523	10.18514	0.1252871	0.18745879	3.0236546	21	5 12.7	19.7
426329 2012 UJ_{156}	16.8	X	87.87671	261.00614	14.30847	10.71417	0.2108369	0.22709347	2.6607227	21	11 11.6	21.2
426330 2012 UG_{167}	16.2	X	12.14382	245.29245	86.57536	6.40725	0.1234264	0.21490534	2.7603951	21	10 9.6	19.4
426331 2012 UA_{172}	16.0	X	110.32870	313.31755	12.04451	8.02900	0.1757908	0.23962401	2.5671377	21	—	—
426332 2012 UK_{176}	16.7	X	98.98328	81.03814	44.94095	2.68855	0.0339109	0.17353997	3.1832423	21	4 27.4	21.0
426333 2012 VG_{39}	15.7	X	265.32029	350.32698	35.89837	15.61933	0.0922746	0.19071193	2.9891714	21	7 3.2	20.2
426334 2012 VK_{45}	15.8	X	274.92804	244.36877	114.37060	9.07665	0.0850355	0.18240492	3.0792504	21	6 11.4	20.2
426335 2012 VP_{57}	15.9	X	346.89150	53.49899	222.56866	11.75839	0.1017140	0.18424437	3.0587213	21	6 3.8	19.8
426336 2012 VE_{78}	15.8	X	359.72392	136.24247	170.48879	9.71935	0.1021208	0.19844565	2.9109964	21	8 5.2	19.3
426337 2012 VV_{100}	15.5	X	6.21673	53.18880	181.77815	16.05692	0.0502929	0.17724130	3.1387696	21	5 14.7	19.9
426338 2012 WL_{1}	15.9	X	296.85269	261.96270	48.41048	9.90626	0.0561092	0.17693276	3.1424175	21	5 12.0	20.2
426339 2012 WL_{12}	16.0	X	268.04483	280.09244	71.66023	12.66681	0.0904941	0.18016972	3.1046657	21	5 24.1	20.5
426340 2013 EB_{19}	17.9	X	69.76422	204.39134	0.45576	20.81301	0.0661888	0.38662684	1.8661278	21	7 9.8	20.2
426341 2013 FD_{16}	18.0	X	89.63940	258.44999	43.97518	5.35077	0.1803002	0.29898838	2.2149632	21	12 27.0	21.3
426342 2013 GG_{12}	16.8	X	51.17884	294.31891	14.81991	23.10369	0.2348170	0.28394618	2.2925141	21	11 21.9	20.4
426343 2013 GT_{91}	17.4	X	121.48737	9.56263	240.98476	6.78882	0.1840720	0.29003769	2.2603017	21	11 19.9	21.0
426344 2013 GZ_{94}	17.5	X	91.50257	60.25642	218.05568	6.81698	0.1546498	0.29091845	2.2557374	21	11 25.7	20.7
426345 2013 HA_{15}	17.6	X	331.43070	154.31592	82.60558	23.94846	0.0418763	0.35887950	1.9611175	21	3 13.8	20.3
426346 2013 KM_{2}	16.7	X	57.86075	216.64761	139.83294	25.15096	0.2090859	0.27538971	2.3397578	21	—	—
426347 2013 KO_{2}	16.8	X	276.60059	229.95891	141.44229	14.08839	0.2093990	0.23037511	2.6353947	21	6 11.8	20.8
426348 2013 KA_{4}	16.0	X	309.34157	202.84258	144.44802	20.92505	0.2979747	0.23509766	2.5999830	21	6 11.3	19.5
426349 2013 KG_{15}	17.6	X	27.13826	149.27507	242.96557	8.84089	0.0960530	0.29842708	2.2177397	21	—	—
426350 2013 LR_{5}	18.0	X	47.32614	86.90573	90.73125	24.16419	0.0539912	0.36035685	1.9557539	21	4 21.1	20.5
426351 2013 LX_{19}	18.3	X	129.26123	226.78667	102.32004	4.66651	0.2073206	0.30689312	2.1767637	21	—	—
426352 2013 LX_{23}	17.3	X	63.71581	259.22930	89.43644	6.75770	0.1266497	0.29521301	2.2338074	21	—	—
426353 2013 LW_{31}	17.1	X	313.33996	141.62871	165.58178	13.64142	0.2688765	0.23170623	2.6252918	21	4 26.8	20.5
426354 2013 LY_{32}	17.6	X	307.47097	171.71790	131.48322	24.54992	0.0596698	0.35516877	1.9747534	21	5 13.5	20.4
426355 2013 MA_{4}	16.6	X	163.44515	78.31817	287.86035	13.27899	0.3426413	0.19010709	2.9955081	21	2 27.8	22.3
426356 2013 MD_{5}	16.2	X	104.87034	245.07579	139.08173	27.09177	0.1917812	0.17768193	3.1335782	21	1 22.1	20.7
426357 2013 NW_{3}	17.3	X	222.68898	120.05082	275.78215	10.45783	0.1545868	0.22036146	2.7146403	21	5 20.5	21.7
426358 2013 NW_{6}	16.0	X	104.75386	92.76586	284.67478	25.06239	0.2250751	0.17973629	3.1096550	21	1 15.6	20.4
426359 2013 NS_{7}	17.4	X	90.43751	28.09522	282.33379	6.14847	0.1280237	0.28082682	2.3094594	21	12 31.3	20.8
426360 2013 NS_{9}	17.7	X	11.33188	117.02990	261.50142	5.67736	0.1334105	0.27498744	2.3420391	21	12 22.8	20.0
426361 2013 NA_{11}	16.6	X	275.58405	167.88095	132.85403	15.12560	0.1666640	0.21814859	2.7329674	21	3 20.4	20.8
426362 2013 ND_{11}	17.7	X	147.19332	260.12270	35.10993	9.03127	0.3112583	0.29166375	2.2518930	21	—	—
426363 2013 NM_{14}	17.9	X	70.91146	192.46330	129.85492	1.96544	0.1990099	0.27599809	2.3363182	21	12 31.7	21.5
426364 2013 NK_{16}	17.8	X	98.12658	183.64144	160.33721	5.96968	0.1750778	0.29026526	2.2591202	21	—	—
426365 2013 NV_{19}	17.2	X	310.80291	79.07255	309.37209	4.02448	0.2269369	0.25132631	2.4868184	21	8 25.2	19.2
426366 2013 NQ_{21}	16.1	X	213.56984	256.18568	119.58863	24.77112	0.2779376	0.21246903	2.7814567	21	4 26.2	21.6
426367 2013 NX_{22}	17.2	X	11.86705	119.28365	161.43730	15.54292	0.1030037	0.24115026	2.5562946	21	7 22.2	20.3
426368 2013 ND_{23}	17.4	X	111.27137	300.05583	282.60910	10.89131	0.1380942	0.25715633	2.4490890	21	9 23.3	21.3
426369 2013 OP_{4}	17.0	X	288.02846	259.18814	86.19301	8.52583	0.2010416	0.23082448	2.6319732	21	5 22.6	20.6
426370 2013 OE_{5}	18.0	X	196.07473	359.97232	247.67754	6.38095	0.1186516	0.29867780	2.2164984	21	—	—
426371 2013 ON_{8}	18.0	X	130.33523	69.27884	260.18697	5.51487	0.2431965	0.29706988	2.2244892	21	—	—
426372 2013 OP_{8}	15.1	X	35.80146	142.12526	301.88462	26.28778	0.1004241	0.17463278	3.1699485	21	—	—
426373 2013 OT_{9}	17.1	X	77.17374	200.90904	129.66694	9.56915	0.1731032	0.28152243	2.3056535	21	—	—
426374 2013 PJ	16.2	X	330.59463	336.04550	282.66699	13.22064	0.2676564	0.22035220	2.7147163	21	3 8.2	19.7
426375 2013 PH_{1}	17.4	X	71.94920	42.73287	225.46441	5.71899	0.0585348	0.25573142	2.4581780	21	10 1.3	20.7
426376 2013 PS_{2}	18.2	X	88.60038	84.95411	145.08496	24.07080	0.0635561	0.37781273	1.8950398	21	9 19.7	20.3
426377 2013 PU_{7}	17.0	X	280.88904	59.81206	310.99482	16.49132	0.2356115	0.23275571	2.6173943	21	6 10.5	21.0
426378 2013 PJ_{9}	18.4	X	241.18319	304.92248	302.18840	3.48029	0.1383104	0.30735021	2.1746050	21	—	—
426379 2013 PW_{15}	17.0	X	265.42785	197.35726	146.74137	14.75643	0.2471999	0.22041311	2.7142162	21	4 24.8	21.6
426380 2013 PF_{16}	15.5	X	212.59630	340.69548	300.75518	16.18376	0.1072232	0.17971393	3.1099128	21	1 2.9	20.5
426381 2013 PG_{16}	17.6	X	141.60512	74.91199	231.02749	8.81058	0.2136179	0.29032867	2.2587913	21	—	—
426382 2013 PM_{17}	17.4	X	40.19197	183.11032	129.00655	2.27231	0.1777987	0.25958619	2.4337819	21	11 8.8	20.3
426383 2013 PC_{19}	16.6	X	197.91532	159.65136	311.46767	14.66091	0.1288519	0.24295783	2.5435998	21	8 3.2	20.6
426384 2013 PH_{19}	17.0	X	288.32964	190.38334	139.61593	6.33004	0.2726422	0.22714918	2.6602877	21	4 24.2	21.0
426385 2013 PF_{20}	17.6	X	112.86699	213.91380	131.23677	2.82283	0.1905369	0.29073013	2.2567114	21	—	—
426386 2013 PC_{21}	16.6	X	245.18231	235.41990	127.13853	11.79206	0.3978038	0.21588596	2.7520297	21	4 20.7	21.9
426387 2013 PR_{21}	18.2	X	126.10500	347.13378	336.83706	2.95126	0.1802225	0.29218014	2.2492389	21	—	—
426388 2013 PG_{24}	17.3	X	294.47995	111.35720	183.76864	4.16026	0.0440117	0.21236148	2.7823956	21	4 18.9	20.9
426389 2013 PK_{24}	18.1	X	295.08557	166.42267	288.34837	1.67251	0.0507161	0.26542172	2.3980315	21	11 28.1	20.8
426390 2013 PV_{25}	17.0	X	54.28836	230.27118	87.01204	10.96821	0.1585668	0.26766513	2.3845596	21	12 2.5	20.1
426391 2013 PL_{26}	16.4	X	320.79262	87.00382	260.99425	16.41593	0.2816690	0.23371284	2.6102434	21	7 1.6	18.9
426392 2013 PW_{26}	17.0	X	14.29921	30.64999	322.38655	5.67364	0.1593319	0.25939216	2.4349954	21	11 20.2	19.7
426393 2013 PA_{31}	16.9	X	290.14536	35.81049	332.17959	11.85638	0.2935680	0.23047812	2.6346094	21	6 8.4	20.7
426394 2013 PJ_{32}	16.9	X	244.40772	207.69820	190.71751	9.17406	0.1344462	0.22541653	2.6739024	21	6 18.0	21.0
426395 2013 PN_{32}	17.7	X	2.74266	236.80100	200.85009	6.50976	0.0828474	0.28096934	2.3086784	21	—	—
426396 2013 PW_{32}	15.9	X	101.50705	210.75500	194.31192	9.15482	0.0871292	0.17801541	3.1296636	21	1 26.1	20.3
426397 2013 PR_{34}	18.0	X	155.10117	76.88964	181.01003	6.37183	0.0996169	0.28391080	2.2927046	21	12 30.7	21.4
426398 2013 PH_{40}	17.1	X	270.24642	3.09234	5.90749	3.18453	0.1951509	0.22534449	2.6744722	21	5 31.6	21.0
426399 2013 PL_{41}	17.5	X	162.85097	162.43713	246.47444	1.40920	0.1714542	0.19946876	2.9010339	21	4 14.3	22.3
426400 2013 PE_{49}	17.1	X	290.67734	125.24222	163.90254	14.04265	0.2569465	0.21839533	2.7309085	21	3 7.1	21.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
426401 2013 PX_{49}	17.6	X	222.56186	331.90924	289.40521	5.39575	0.1369457	0.30756907	2.1735732	21	—	—
426402 2013 PC_{51}	16.8	X	293.06843	125.56802	176.99150	12.91183	0.2671651	0.22276845	2.6950507	21	3 24.7	20.8
426403 2013 PR_{54}	18.3	X	134.88980	125.98941	196.55565	1.58259	0.0799906	0.29191207	2.2506157	21	—	—
426404 2013 PF_{62}	16.3	X	350.40525	312.41622	297.00417	10.24562	0.0357969	0.22262670	2.6961945	21	5 1.1	20.0
426405 2013 PA_{64}	18.2	X	343.34113	132.36702	294.31468	6.84470	0.0820691	0.27786298	2.3258530	21	—	—
426406 2013 PB_{66}	17.0	X	200.06407	150.02282	234.54585	5.96023	0.0482672	0.21166184	2.7885237	21	4 16.7	21.0
426407 2013 PL_{69}	16.7	X	357.72030	258.47834	30.89986	13.05509	0.1496024	0.24216447	2.5491522	21	7 13.1	19.5
426408 2013 PO_{69}	16.1	X	294.21295	16.59100	280.64765	13.16334	0.1765893	0.22049715	2.7135265	21	3 23.6	20.3
426409 2013 PH_{71}	17.1	X	355.44984	225.13196	132.56489	8.31317	0.1372472	0.25548461	2.4597609	21	10 26.0	19.6
426410 2013 PS_{71}	16.3	X	313.92256	357.51835	315.50013	11.83967	0.0675708	0.23201035	2.6229971	21	6 2.6	19.8
426411 2013 PC_{72}	17.3	X	29.81558	172.31649	150.77680	6.14187	0.1208002	0.25596253	2.4566981	21	10 31.4	20.2
426412 2013 PP_{72}	17.1	X	265.18575	136.37417	227.20887	12.72907	0.2983515	0.22324488	2.6912149	21	5 8.5	21.4
426413 2013 QL_{2}	18.3	X	189.10049	5.28414	294.54683	5.55875	0.0834564	0.30833255	2.1699837	21	—	—
426414 2013 QS_{3}	18.2	X	46.93552	91.28589	283.73287	1.33351	0.1501346	0.27864842	2.3214802	21	—	—
426415 2013 QX_{3}	17.3	X	323.30647	83.78731	317.75612	5.97674	0.1263588	0.25777077	2.4451956	21	10 21.4	19.9
426416 2013 QY_{3}	17.9	X	342.63498	21.50767	318.70682	5.12315	0.1990217	0.24667190	2.5180031	21	8 26.1	19.7
426417 2013 QB_{9}	16.7	X	163.84170	135.75390	259.78025	0.93686	0.1231493	0.19689645	2.9262457	21	3 27.4	21.1
426418 2013 QG_{9}	17.6	X	27.92948	52.85045	324.00559	5.97259	0.1451632	0.26929510	2.3749278	21	—	—
426419 2013 QY_{13}	17.3	X	328.82797	87.01463	186.48997	13.00384	0.0676326	0.22105304	2.7089753	21	5 5.4	20.8
426420 2013 QO_{14}	17.6	X	260.27482	84.89526	331.43710	4.39741	0.0935857	0.23707143	2.5855319	21	8 6.8	20.9
426421 2013 QP_{14}	18.1	X	280.88397	336.72545	190.06897	5.46404	0.0553854	0.28676540	2.2774642	21	—	—
426422 2013 QW_{14}	15.8	X	313.18620	274.34760	257.31045	7.38616	0.0465020	0.17769692	3.1334020	21	—	—
426423 2013 QU_{15}	17.4	X	24.80790	18.05548	296.88423	3.98825	0.1969724	0.25516844	2.4617923	21	10 19.2	20.0
426424 2013 QG_{16}	17.8	X	127.37503	158.32563	160.44053	3.16698	0.1835647	0.29052182	2.2577900	21	—	—
426425 2013 QR_{16}	16.3	X	267.76971	340.92518	354.27360	9.65116	0.2216210	0.21399329	2.7682328	21	4 11.3	20.7
426426 2013 QC_{19}	16.9	X	254.55949	219.87661	137.55624	6.74600	0.0446897	0.22207079	2.7006922	21	5 19.9	20.7
426427 2013 QV_{23}	16.9	X	184.78623	20.48608	356.44141	1.54698	0.0864728	0.20271636	2.8699666	21	3 23.9	21.3
426428 2013 QV_{26}	17.0	X	14.22018	337.10775	359.56053	12.33419	0.1917957	0.25503739	2.4626355	21	10 28.5	19.6
426429 2013 QT_{29}	17.7	X	151.24765	133.59496	323.06025	3.12994	0.1198464	0.21218378	2.7839489	21	5 28.1	21.9
426430 2013 QA_{30}	17.1	X	343.33212	250.56007	118.07254	3.49356	0.2019343	0.25588686	2.4571824	21	10 19.8	18.9
426431 2013 QD_{32}	17.0	X	256.26906	221.87767	147.24923	17.93934	0.1986168	0.21511225	2.7586247	21	5 22.3	21.7
426432 2013 QP_{32}	16.7	X	259.68100	60.55653	334.65340	25.25913	0.1741060	0.23202792	2.6228647	21	7 1.9	21.0
426433 2013 QS_{34}	16.7	X	227.21414	287.75212	117.06276	15.76169	0.1293685	0.22730270	2.6590897	21	6 10.5	20.9
426434 2013 QH_{35}	16.2	X	170.46734	211.33171	137.40021	3.45403	0.1389179	0.18860345	3.0114082	21	2 8.9	20.9
426435 2013 QV_{35}	17.3	X	197.28693	70.41239	325.22240	5.12027	0.0587383	0.20970852	2.8058126	21	4 26.6	21.4
426436 2013 QN_{36}	17.3	X	225.19758	26.01745	340.66490	4.47653	0.1907465	0.21243299	2.7817713	21	4 14.9	22.0
426437 2013 QK_{39}	17.1	X	27.81481	3.12922	204.01340	5.42281	0.0073743	0.21642887	2.7474254	21	5 2.3	20.7
426438 2013 QM_{39}	17.6	X	346.51069	170.20686	211.90785	3.43282	0.1216678	0.25929419	2.4356088	21	11 10.0	20.0
426439 2013 QV_{39}	16.2	X	213.21729	133.34703	320.31567	14.39446	0.1876329	0.23376494	2.6098555	21	7 25.2	20.4
426440 2013 QF_{40}	16.9	X	104.21585	122.72967	313.32529	10.24678	0.1231665	0.19264761	2.9691146	21	3 9.2	21.1
426441 2013 QN_{43}	17.5	X	56.58144	58.46480	336.92821	6.62451	0.0976987	0.28747832	2.2736973	21	—	—
426442 2013 QG_{46}	16.4	X	260.82697	84.52935	221.76938	19.55632	0.1031528	0.21020198	2.8014197	21	3 9.3	20.9
426443 2013 QK_{46}	15.5	X	50.28031	194.40712	245.69595	16.79686	0.0545697	0.17533282	3.1615052	21	—	—
426444 2013 QT_{48}	17.5	X	72.08083	205.53687	192.15213	8.12365	0.2419648	0.28832835	2.2692263	21	—	—
426445 2013 QV_{54}	16.3	X	111.83790	308.66235	116.92257	5.68304	0.1442979	0.19126988	2.9833554	21	3 14.8	20.6
426446 2013 QR_{56}	16.4	X	168.85890	211.34300	134.59903	10.41593	0.1280924	0.18575996	3.0420615	21	2 3.9	21.2
426447 2013 QF_{57}	17.4	X	131.41533	227.48108	26.32679	5.98852	0.2143480	0.27490246	2.3425217	21	11 30.1	21.4
426448 2013 QK_{57}	17.8	X	30.43926	321.15311	66.41366	4.32813	0.1389408	0.27396598	2.3478569	21	—	—
426449 2013 QE_{59}	16.6	X	178.45490	329.06578	25.74660	4.59407	0.0576826	0.19296799	2.9658273	21	2 20.4	21.0
426450 2013 QX_{59}	17.3	X	304.50015	5.13029	141.37391	5.63620	0.0622975	0.29076188	2.2565471	21	—	—
426451 2013 QR_{61}	17.3	X	287.36949	251.17056	149.91881	17.06662	0.2227095	0.24297605	2.5434726	21	8 1.2	20.5
426452 2013 QS_{63}	17.9	X	338.84430	213.85665	150.32904	2.42096	0.1892157	0.25242941	2.4795683	21	9 28.7	19.7
426453 2013 QW_{64}	17.3	X	300.25219	249.75836	106.00144	6.52873	0.1310823	0.23318076	2.6142127	21	7 3.7	20.5
426454 2013 QZ_{64}	18.0	X	82.93241	222.24473	91.47969	3.43359	0.1917439	0.27359114	2.3500009	21	12 31.5	21.7
426455 2013 QH_{66}	17.3	X	297.11146	128.69011	309.77402	5.75030	0.1352774	0.26007073	2.4307580	21	10 26.7	19.9
426456 2013 QE_{68}	16.4	X	238.34507	80.27548	340.05248	21.86194	0.0554415	0.23483797	2.6018994	21	7 27.1	20.3
426457 2013 QR_{70}	16.8	X	262.40763	45.49140	345.36626	13.70399	0.2038948	0.22932444	2.6434382	21	6 20.1	21.0
426458 2013 QE_{72}	17.1	X	73.38346	212.96073	120.26439	7.39430	0.1382474	0.27522983	2.3406639	21	—	—
426459 2013 QM_{72}	17.1	X	260.15943	256.46596	83.29801	4.50038	0.1879516	0.21617732	2.7495564	21	4 17.5	21.3
426460 2013 QC_{73}	17.8	X	78.58067	214.17772	133.10428	3.43867	0.1038455	0.28149738	2.3057903	21	—	—
426461 2013 QS_{73}	18.0	X	73.90879	285.21151	136.52319	3.72386	0.1136143	0.30209793	2.1997376	21	—	—
426462 2013 QU_{73}	16.7	X	123.06334	31.83126	145.40048	15.00203	0.0414568	0.23706147	2.5856043	21	8 2.3	20.3
426463 2013 QG_{75}	16.6	X	252.53580	206.14091	143.75355	14.62894	0.2004765	0.21520617	2.7578220	21	4 24.8	21.2
426464 2013 QW_{77}	17.3	X	214.44573	118.80172	286.60274	2.76755	0.2345355	0.21625530	2.7488953	21	5 22.3	22.1
426465 2013 QO_{82}	17.0	X	316.04089	8.80194	261.34700	2.62703	0.0638746	0.21170979	2.7881026	21	4 10.4	20.6
426466 2013 QW_{82}	16.0	X	342.01622	190.50057	121.59737	16.79185	0.1625473	0.24083736	2.5585082	21	7 11.6	18.5
426467 2013 QJ_{83}	16.6	X	276.90699	347.61409	8.64517	13.64274	0.1749120	0.22496811	2.6774543	21	5 21.8	20.7
426468 2013 QO_{83}	17.6	X	94.05599	166.36793	171.90008	6.44568	0.1878213	0.28497456	2.2869956	21	—	—
426469 2013 QO_{84}	16.7	X	269.99286	234.16414	167.58771	13.66906	0.2691462	0.23140411	2.6275763	21	7 3.5	20.9
426470 2013 QP_{84}	16.8	X	24.47160	119.99780	217.73487	5.65528	0.1163758	0.25748343	2.4470144	21	11 9.9	19.6
426471 2013 QA_{93}	17.2	X	293.05923	12.73430	327.03323	5.20129	0.1047239	0.22873368	2.6479877	21	6 3.9	20.8
426472 2013 QB_{93}	17.2	X	7.73245	189.10153	149.06623	3.18054	0.1291562	0.25471207	2.4647320	21	10 16.1	19.6
426473 2013 QS_{93}	18.4	X	209.48639	122.80959	154.57199	0.89780	0.1413066	0.30562429	2.1827842	21	—	—
426474 2013 RK	16.9	X	311.23156	59.96592	293.46177	9.93348	0.1988320	0.23498103	2.6008432	21	7 7.9	19.6
426475 2013 RW	17.4	X	295.51852	78.03512	254.49303	1.06913	0.2068544	0.22513139	2.6761596	21	5 13.0	21.0
426476 2013 RV_{2}	16.4	X	158.99107	66.56995	263.41425	0.66721	0.1290303	0.17481560	3.1677381	21	1 8.9	21.2
426477 2013 RH_{5}	17.7	X	233.53229	91.30562	312.70051	0.89401	0.0802721	0.22309755	2.6923996	21	6 18.6	21.5
426478 2013 RW_{6}	17.1	X	125.88239	237.55390	257.64839	3.57167	0.0438507	0.22261765	2.6962676	21	6 10.9	20.8
426479 2013 RE_{7}	18.2	X	201.56484	334.30950	323.85320	2.65312	0.1485006	0.30875490	2.1680043	21	—	—
426480 2013 RG_{16}	16.7	X	218.23085	30.10434	334.53680	3.76693	0.1697000	0.20654131	2.8344237	21	4 7.9	21.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
426481 2013 RY_{16}	16.3	X	83.89650	31.84833	352.96202	25.73845	0.2787391	0.28206692	2.3026854	21	—	—
426482 2013 RH_{17}	17.2	X	306.40244	87.10788	263.19531	6.31923	0.2219619	0.23538607	2.5978588	21	6 20.3	20.1
426483 2013 RK_{17}	17.3	X	236.85962	257.69999	176.29463	11.39342	0.2253768	0.23279060	2.6171328	21	7 15.6	21.6
426484 2013 RW_{17}	16.9	X	350.73112	335.65082	320.35765	13.18783	0.1029991	0.23327240	2.6135279	21	7 10.0	19.9
426485 2013 RU_{18}	17.4	X	73.25755	141.03406	160.63692	3.21880	0.1783536	0.26696693	2.3887153	21	12 5.3	20.8
426486 2013 RB_{20}	16.9	X	299.18703	345.75955	341.13470	6.30122	0.2038903	0.22652618	2.6651630	21	5 8.4	20.4
426487 2013 RA_{22}	16.4	X	244.71535	259.14090	119.52398	3.63067	0.0959502	0.21654143	2.7464733	21	5 28.7	20.3
426488 2013 RB_{23}	16.8	X	205.49164	238.67391	172.25707	13.26674	0.1654685	0.21026324	2.8008755	21	5 26.6	21.6
426489 2013 RW_{23}	17.3	X	211.50861	182.87288	181.94145	3.47577	0.1887096	0.20201229	2.8766312	21	4 3.9	22.2
426490 2013 RB_{24}	16.2	X	226.33528	110.34061	180.90533	8.92544	0.0603032	0.18364898	3.0653285	21	1 24.7	21.0
426491 2013 RH_{25}	18.1	X	96.45536	62.11298	240.39566	1.63161	0.1851933	0.27053736	2.3676521	21	12 28.9	21.8
426492 2013 RM_{25}	16.2	X	121.93083	53.99391	334.47570	3.80562	0.1217893	0.17476201	3.1683856	21	2 7.4	20.7
426493 2013 RG_{29}	16.9	X	244.06594	248.14203	177.19790	11.81913	0.1343921	0.22657428	2.6647858	21	7 21.1	21.0
426494 2013 RN_{31}	16.4	X	287.57396	45.71533	261.55983	6.10061	0.0985490	0.21736686	2.7395159	21	4 13.9	20.3
426495 2013 RY_{31}	17.2	X	247.07386	333.68230	18.12944	3.72300	0.1045304	0.21125363	2.7921147	21	4 25.0	21.4
426496 2013 RS_{32}	17.0	X	359.90150	354.29676	12.29577	6.36185	0.2903203	0.25556795	2.4592261	21	12 4.7	19.1
426497 2013 RJ_{33}	17.6	X	88.47640	215.42024	103.52824	2.47575	0.2092576	0.27513615	2.3411952	21	—	—
426498 2013 RK_{33}	17.5	X	6.64204	240.23728	119.00794	2.21036	0.2040975	0.25600834	2.4564050	21	11 24.3	19.7
426499 2013 RB_{34}	17.5	X	180.60187	341.50330	307.27826	1.87165	0.1197984	0.29933909	2.2132328	21	—	—
426500 2013 RE_{35}	16.2	X	239.73674	146.85157	249.63046	15.15365	0.2092545	0.21345864	2.7728533	21	6 3.9	20.8
426501 2013 RJ_{35}	16.8	X	0.95664	334.49709	56.51330	7.28465	0.1170064	0.25946420	2.4345447	21	12 16.7	19.4
426502 2013 RS_{35}	15.7	X	195.57505	166.29345	155.21807	11.16606	0.0392891	0.18104126	3.0946937	21	1 28.7	20.3
426503 2013 RU_{35}	16.5	X	256.43587	240.74058	114.18764	3.06495	0.2354973	0.21349000	2.7725817	21	4 27.7	20.9
426504 2013 RO_{37}	16.3	X	176.96629	283.05329	175.08521	14.24152	0.1134089	0.21664744	2.7455773	21	6 25.6	20.8
426505 2013 RP_{37}	16.6	X	37.41598	264.17578	7.93936	12.78626	0.1331856	0.23892741	2.5721250	21	9 2.9	19.7
426506 2013 RT_{37}	16.4	X	187.37439	204.01603	178.68715	10.51891	0.1252797	0.20019310	2.8940319	21	4 4.9	21.0
426507 2013 RX_{38}	16.1	X	27.31588	295.36180	176.85174	11.75262	0.0682263	0.17188022	3.2037020	21	1 7.8	20.5
426508 2013 RE_{39}	16.6	X	133.72968	352.19481	9.97941	0.20075	0.1505067	0.17419539	3.1752526	21	1 23.3	21.4
426509 2013 RS_{39}	16.9	X	220.24700	228.87946	170.24330	6.03420	0.0874707	0.21543064	2.7559060	21	5 28.8	21.0
426510 2013 RH_{41}	17.7	X	105.36850	206.16986	54.57863	3.08483	0.1563419	0.25994478	2.4315431	21	11 12.8	21.2
426511 2013 RR_{41}	16.6	X	284.44135	186.67230	202.35180	9.37870	0.1269482	0.23211072	2.6222409	21	7 24.7	20.2
426512 2013 RV_{41}	17.7	X	164.29824	314.35821	356.33331	7.79548	0.1736851	0.29922929	2.2137741	21	—	—
426513 2013 RZ_{43}	15.8	X	132.32546	92.89411	326.98349	11.60284	0.0552568	0.19341011	2.9613059	21	3 13.8	20.2
426514 2013 RU_{44}	17.0	X	330.03965	45.86407	290.89621	6.70960	0.1352255	0.23785622	2.5798416	21	7 27.0	19.5
426515 2013 RW_{44}	15.6	X	269.14574	44.69975	225.60576	8.29934	0.0601900	0.19305100	2.9649771	21	2 12.1	20.1
426516 2013 RK_{46}	16.5	X	299.30205	325.42695	332.77928	5.16971	0.0711925	0.21265020	2.7798766	21	4 22.2	20.3
426517 2013 RL_{46}	17.0	X	142.36429	61.64408	332.67191	3.80368	0.1246209	0.18631412	3.0360264	21	3 5.8	21.7
426518 2013 RM_{46}	17.5	X	15.30937	332.02194	344.63945	8.96535	0.0836603	0.24536333	2.5269479	21	9 18.4	20.4
426519 2013 RN_{46}	17.1	X	215.47549	103.15584	338.61355	5.63996	0.1227109	0.22597298	2.6695110	21	7 15.3	21.1
426520 2013 RK_{47}	17.6	X	64.38931	330.25352	357.09860	3.79555	0.1659000	0.26667420	2.3904631	21	12 26.6	21.0
426521 2013 RQ_{48}	17.7	X	225.26088	195.34322	342.20995	5.22617	0.0701128	0.26825827	2.3810434	21	12 8.5	20.8
426522 2013 RG_{49}	17.4	X	295.22659	151.96854	191.91911	4.26678	0.1521082	0.22744641	2.6579695	21	6 6.4	20.7
426523 2013 RO_{49}	17.3	X	349.80617	92.00907	237.22449	5.36026	0.2087670	0.24310342	2.5425842	21	8 23.2	19.5
426524 2013 RH_{52}	16.7	X	274.92767	82.71431	257.34009	10.15002	0.0778610	0.21989358	2.7184897	21	5 15.4	20.6
426525 2013 RT_{52}	16.5	X	178.82894	5.99114	346.54221	16.20742	0.1809587	0.18992214	2.9974526	21	2 24.6	21.5
426526 2013 RX_{53}	17.6	X	104.31308	30.20779	295.14536	3.26400	0.1833250	0.27920660	2.3183852	21	—	—
426527 2013 RO_{56}	16.6	X	192.77129	180.66234	289.69771	11.24896	0.1303464	0.23050302	2.6344197	21	7 26.2	20.6
426528 2013 RZ_{56}	16.3	X	204.19063	189.72040	200.43692	6.38233	0.2117102	0.20520058	2.8467565	21	4 27.8	21.1
426529 2013 RX_{58}	16.2	X	57.60294	243.49128	200.44832	8.72679	0.0833060	0.17429070	3.1740949	21	1 15.4	20.5
426530 2013 RY_{60}	15.5	X	201.23595	29.97991	296.25059	12.73191	0.1323540	0.18264670	3.0765325	21	2 8.4	20.5
426531 2013 RU_{63}	17.1	X	242.56138	197.07200	162.65037	3.79630	0.1059520	0.21371393	2.7706446	21	5 1.6	21.2
426532 2013 RY_{64}	16.0	X	262.25177	53.54489	239.56970	11.56323	0.0801260	0.19928505	2.9028164	21	2 26.9	20.5
426533 2013 RS_{66}	17.9	X	287.11807	183.59555	222.14115	2.36603	0.1610373	0.24080452	2.5587408	21	8 17.9	20.9
426534 2013 RV_{67}	17.8	X	171.15387	248.16903	67.70389	7.35742	0.2665120	0.30369220	2.1920324	21	—	—
426535 2013 RT_{70}	17.5	X	107.15477	326.39126	26.14852	7.41552	0.1713770	0.28792606	2.2713396	21	—	—
426536 2013 RW_{70}	17.0	X	330.91226	187.00889	156.11591	10.78145	0.1586127	0.23586764	2.5943216	21	8 4.6	19.5
426537 2013 RM_{71}	16.9	X	264.42134	205.23185	160.75334	5.97128	0.0405322	0.21980754	2.7191990	21	6 12.4	20.7
426538 2013 RC_{77}	17.8	X	322.65697	339.84060	356.95836	1.87747	0.0897045	0.23491553	2.6013267	21	7 19.7	20.7
426539 2013 RL_{79}	16.4	X	92.50213	313.11385	191.63736	7.11883	0.0558916	0.21104226	2.7939787	21	5 14.7	20.2
426540 2013 RV_{79}	16.5	X	267.20422	284.85493	44.26109	13.60138	0.2216218	0.21166273	2.7885158	21	4 10.2	20.9
426541 2013 RX_{81}	17.9	X	48.55246	293.49928	9.64175	1.27349	0.1826918	0.25503689	2.4626388	21	11 6.8	21.0
426542 2013 RZ_{81}	17.8	X	249.22273	324.15603	144.85497	8.25965	0.1526016	0.24165389	2.5527416	21	9 26.1	21.2
426543 2013 RH_{82}	16.3	X	114.75602	83.05178	349.41998	10.87566	0.0653653	0.18610469	3.0383036	21	3 13.8	20.6
426544 2013 RZ_{83}	16.5	X	87.85053	88.91341	331.99749	8.15601	0.1203804	0.17201720	3.2020010	21	2 5.8	20.7
426545 2013 RL_{84}	16.7	X	252.34245	102.82140	293.13385	5.34472	0.0839095	0.22170928	2.7036271	21	6 30.6	20.5
426546 2013 RN_{84}	16.3	X	93.26571	132.63617	341.33793	8.80913	0.0668415	0.19321124	2.9633375	21	4 4.5	20.5
426547 2013 RS_{84}	17.0	X	335.24166	353.83379	342.55119	5.58504	0.2971676	0.23593019	2.5938630	21	7 21.0	18.7
426548 2013 RT_{84}	16.6	X	245.98535	132.30580	267.51587	8.08131	0.1825343	0.21670451	2.7450952	21	6 16.6	20.7
426549 2013 RW_{84}	16.7	X	294.07592	84.44593	269.94480	4.94530	0.0481509	0.22509239	2.6764687	21	7 5.3	20.0
426550 2013 RC_{87}	15.5	X	169.40290	335.78012	357.09174	10.15001	0.1997854	0.17688866	3.1429397	21	1 28.9	20.8
426551 2013 RE_{87}	17.3	X	290.05108	139.23380	211.49160	6.11304	0.0470267	0.22145215	2.7057195	21	6 24.6	21.0
426552 2013 RH_{87}	16.1	X	81.15888	242.44137	24.68000	22.61000	0.0450198	0.24022978	2.5628203	21	10 12.2	19.6
426553 2013 RY_{87}	16.9	X	193.90450	147.49922	274.91768	3.76857	0.1160239	0.21048908	2.7988718	21	5 28.3	21.2
426554 2013 RR_{88}	17.0	X	232.57786	53.61006	327.31681	5.46151	0.0870008	0.21211099	2.7845858	21	5 16.4	21.1
426555 2013 RU_{88}	17.7	X	228.35864	278.90892	348.25525	8.34733	0.1575502	0.30442708	2.1885032	21	—	—
426556 2013 RR_{89}	16.6	X	249.50172	101.08366	268.28692	2.65362	0.1106782	0.21549869	2.7553258	21	5 19.5	20.6
426557 2013 RV_{89}	17.1	X	267.34211	198.41191	217.90373	5.50172	0.0844613	0.23535281	2.5981035	21	8 14.7	20.5
426558 2013 RV_{91}	16.4	X	17.52475	6.80719	292.05577	11.26567	0.2357450	0.23744219	2.5828397	21	9 9.6	19.0
426559 2013 RU_{92}	16.9	X	285.14677	341.28480	348.28024	1.91496	0.2148589	0.21747662	2.7385941	21	4 25.2	21.0
426560 2013 RD_{93}	17.2	X	273.39359	13.70109	314.58191	2.42310	0.1043716	0.21103833	2.7940134	21	4 24.7	21.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
426561 2013 RV_{93}	16.7	X	206.09362	94.69481	283.11804	1.01675	0.0835803	0.20126845	2.8837144	21	4 15.9	21.2
426562 2013 RL_{94}	16.1	X	140.58364	106.37877	304.41503	9.18938	0.1076064	0.18266116	3.0763700	21	3 18.4	20.8
426563 2013 RD_{97}	16.7	X	67.01609	291.93012	327.14808	16.77469	0.0117800	0.24355957	2.5394086	21	9 2.1	20.1
426564 2013 RF_{97}	16.7	X	241.78406	345.60165	29.06598	5.78466	0.1456632	0.21307707	2.7761627	21	5 13.9	21.1
426565 2013 RJ_{97}	17.6	X	93.88508	66.94061	304.98283	6.15415	0.0908599	0.29072904	2.2567170	21	—	—
426566 2013 RL_{97}	16.8	X	241.32987	6.26389	22.13544	15.18638	0.1801121	0.21535739	2.7565308	21	5 24.8	21.4
426567 2013 RU_{97}	16.1	X	208.69293	291.91827	55.57307	10.41675	0.0929008	0.19226220	2.9730813	21	3 19.2	20.8
426568 2013 SG	16.7	X	341.66335	340.13096	305.96288	10.72970	0.1650174	0.23124358	2.6287922	21	5 29.3	19.6
426569 2013 SL_{8}	17.3	X	64.88802	109.15399	248.66174	5.96860	0.1527930	0.27880446	2.3206140	21	—	—
426570 2013 SK_{11}	17.2	X	278.96899	346.99406	0.96654	9.29737	0.1719423	0.22262292	2.6962250	21	5 15.0	21.2
426571 2013 SA_{14}	17.4	X	300.40291	167.37623	193.87389	3.09100	0.0803670	0.23354455	2.6114971	21	7 19.0	20.6
426572 2013 SA_{15}	17.5	X	349.12955	316.61000	0.56729	4.14038	0.1939016	0.23794127	2.5792268	21	8 5.6	19.5
426573 2013 SD_{16}	16.3	X	228.44082	96.89059	179.40262	10.57593	0.0368310	0.17760546	3.1344776	21	1 11.7	21.1
426574 2013 SF_{17}	16.8	X	304.97482	338.04845	7.65934	14.78177	0.1184029	0.23250713	2.6192595	21	6 30.2	20.3
426575 2013 SS_{17}	17.1	X	156.18299	128.54524	352.26071	7.74897	0.1857992	0.21809602	2.7334065	21	7 7.7	21.7
426576 2013 SA_{19}	17.0	X	275.81606	184.00483	186.12959	6.20439	0.1009498	0.22477417	2.6789943	21	6 23.2	20.7
426577 2013 SL_{22}	16.3	X	249.71311	296.69801	80.56100	6.94444	0.0357108	0.21487614	2.7606451	21	6 8.6	20.0
426578 2013 SO_{23}	17.5	X	291.69743	148.62875	187.48918	1.71630	0.2064452	0.22280961	2.6947187	21	5 13.6	21.2
426579 2013 SX_{23}	17.2	X	206.44872	344.07941	115.19011	8.12474	0.0900023	0.23068130	2.6330623	21	7 30.0	21.0
426580 2013 SC_{24}	16.5	X	184.02765	335.48998	55.97086	5.59941	0.1145464	0.19706219	2.9246047	21	4 12.9	21.1
426581 2013 SH_{26}	16.3	X	265.15710	355.60615	339.98599	8.51618	0.1568382	0.21013728	2.8019948	21	4 15.7	20.7
426582 2013 SV_{26}	17.3	X	258.02068	66.77880	24.45478	17.55553	0.1439682	0.23965845	2.5668917	21	9 19.5	20.9
426583 2013 SV_{27}	16.1	X	215.56719	84.61957	324.41459	10.11222	0.1021342	0.20950667	2.8076145	21	6 2.2	20.6
426584 2013 SA_{28}	16.0	X	136.36559	66.50502	336.13343	18.72502	0.2716496	0.18000680	3.1065387	21	3 18.7	21.3
426585 2013 SS_{28}	17.5	X	66.93478	342.97755	3.68011	6.80575	0.1222182	0.26786089	2.3833977	21	—	—
426586 2013 SU_{28}	15.9	X	164.00830	248.26877	137.73466	11.47509	0.1471636	0.18362166	3.0656326	21	3 22.7	20.9
426587 2013 SV_{28}	15.6	X	134.87418	262.38151	139.61167	11.44826	0.1133196	0.17767626	3.1336449	21	3 9.6	20.3
426588 2013 SD_{29}	17.1	X	178.88910	34.99760	258.81917	5.32568	0.1149220	0.29531132	2.2333116	21	—	—
426589 2013 SR_{29}	15.5	X	183.86205	37.27562	269.01344	10.04936	0.0316220	0.17028994	3.2236167	21	—	—
426590 2013 SB_{30}	16.8	X	299.06782	318.43817	13.01027	8.82343	0.1498769	0.21879892	2.7275492	21	5 23.8	20.5
426591 2013 SC_{31}	16.9	X	338.39988	120.16446	161.72330	14.50316	0.1668129	0.23078312	2.6322877	21	5 21.7	20.0
426592 2013 SS_{31}	18.0	X	189.89389	229.91378	85.28049	4.53295	0.2046004	0.30821835	2.1705197	21	1 3.7	21.3
426593 2013 SP_{33}	17.2	X	271.67623	117.06895	355.68725	6.61373	0.0508713	0.26073021	2.4266575	21	11 15.1	20.2
426594 2013 SS_{33}	16.6	X	103.82397	271.73396	194.34319	7.31275	0.0144442	0.20104544	2.8858466	21	4 2.5	20.6
426595 2013 SG_{34}	16.7	X	15.06948	228.41280	13.71745	6.25689	0.0283268	0.21867731	2.7285603	21	5 30.3	20.3
426596 2013 SQ_{34}	16.3	X	180.52543	159.39997	176.95260	18.17006	0.1187467	0.18397549	3.0617007	21	1 31.9	21.4
426597 2013 SJ_{36}	17.9	X	102.05499	293.00353	347.11022	3.01483	0.1178897	0.26629819	2.3927128	21	12 1.2	21.5
426598 2013 SO_{36}	17.6	X	315.22904	299.50558	182.72647	9.66568	0.1572930	0.27550591	2.3390999	21	—	—
426599 2013 SW_{37}	16.8	X	231.60791	255.26415	145.55709	5.48456	0.1870422	0.21800081	2.7342023	21	6 4.3	21.3
426600 2013 SK_{38}	16.9	X	209.95480	78.08765	22.87371	11.97074	0.1746622	0.22597933	2.6694609	21	8 3.6	21.4
426601 2013 SN_{38}	17.2	X	246.45390	53.42125	40.38773	5.09533	0.0221998	0.24302215	2.5431509	21	9 21.5	20.5
426602 2013 SV_{38}	16.3	X	225.37063	350.89741	28.03797	7.99755	0.0705354	0.21021245	2.8013267	21	5 7.6	20.3
426603 2013 SA_{39}	16.5	X	96.11801	231.29334	205.81349	2.88685	0.1796679	0.17554916	3.1589073	21	3 14.1	20.9
426604 2013 SL_{40}	16.3	X	34.36439	341.78841	294.53155	17.90793	0.2069638	0.23671941	2.5880945	21	8 31.6	19.5
426605 2013 SW_{40}	17.1	X	254.88472	139.61105	197.06028	4.11316	0.1139465	0.21586002	2.7522501	21	4 13.9	21.2
426606 2013 SF_{41}	16.0	X	82.56330	260.29113	169.53816	26.24970	0.2953097	0.17547358	3.1598143	21	3 5.2	20.2
426607 2013 SD_{43}	16.6	X	230.75346	319.16590	70.14618	7.48222	0.0415845	0.21504849	2.7591700	21	5 30.9	20.4
426608 2013 SS_{43}	16.7	X	74.03887	279.48893	40.61773	14.71121	0.1701574	0.26654360	2.3912439	21	12 27.3	20.5
426609 2013 SE_{44}	16.0	X	80.76854	113.98826	3.54499	9.95601	0.1385554	0.18259885	3.0770699	21	4 5.8	20.2
426610 2013 SF_{44}	16.8	X	338.57258	262.45540	72.89426	6.15915	0.1556727	0.23552671	2.5968246	21	8 13.0	19.4
426611 2013 SQ_{46}	18.6	X	204.65731	304.19857	355.34136	5.47342	0.2158527	0.31166147	2.1545040	21	—	—
426612 2013 SY_{46}	17.0	X	294.76869	179.49872	145.86541	2.52522	0.0765978	0.22000303	2.7175880	21	5 23.9	20.6
426613 2013 SR_{49}	16.3	X	306.94299	243.23379	64.18884	5.89491	0.1375726	0.21298819	2.7769349	21	5 8.0	19.7
426614 2013 SU_{50}	16.6	X	128.49485	0.34027	43.61916	0.86780	0.2434831	0.17807381	3.1289793	21	3 17.2	21.4
426615 2013 SZ_{52}	17.6	X	204.55864	214.12345	68.32679	6.21867	0.1769367	0.30109964	2.2045970	21	—	—
426616 2013 SH_{53}	15.5	X	23.57532	154.86868	173.47004	11.25102	0.2568321	0.12589615	3.9427061	21	10 24.7	20.2
426617 2013 SV_{54}	16.6	X	73.43943	64.22101	13.85628	1.23623	0.0437261	0.17828776	3.1264755	21	1 27.2	20.7
426618 2013 SG_{55}	16.1	X	201.55573	211.53262	255.37031	13.71189	0.0886195	0.22144552	2.7057736	21	7 29.2	20.4
426619 2013 SL_{55}	16.4	X	151.59124	244.67567	137.97551	1.97015	0.1924367	0.18053062	3.1005266	21	3 8.3	21.3
426620 2013 SE_{57}	17.1	X	52.15255	276.85191	37.70127	6.62542	0.1570929	0.25827119	2.4420361	21	11 22.5	20.2
426621 2013 SP_{58}	17.0	X	140.92239	190.85759	92.67272	3.49580	0.2097311	0.28084684	2.3093496	21	—	—
426622 2013 SW_{58}	17.1	X	333.17330	132.47136	193.33135	3.73126	0.0966561	0.23154428	2.6265158	21	7 19.4	20.1
426623 2013 SV_{59}	16.6	X	181.53883	102.43211	343.89083	21.36336	0.1144034	0.22249633	2.6972476	21	6 14.8	21.3
426624 2013 SA_{60}	17.2	X	252.98893	213.72247	168.92463	4.58898	0.1714320	0.22438910	2.6820583	21	6 3.5	21.3
426625 2013 SJ_{60}	17.5	X	132.15931	334.44726	348.40978	8.35436	0.1778594	0.29343705	2.2428114	21	—	—
426626 2013 SR_{60}	17.7	X	137.46505	354.10226	0.76427	5.35759	0.1631969	0.30149321	2.2026781	21	—	—
426627 2013 SW_{61}	16.4	X	200.23704	351.52186	23.14523	2.06870	0.0913331	0.20155920	2.8809406	21	4 6.5	20.6
426628 2013 SM_{62}	16.2	X	105.12538	45.69634	18.64597	11.09030	0.1738897	0.17997867	3.1068624	21	3 12.1	20.6
426629 2013 SX_{62}	18.0	X	227.32975	96.39546	153.42140	2.79916	0.1310947	0.29943351	2.2127675	21	—	—
426630 2013 SU_{63}	17.5	X	66.20848	16.69813	332.55340	5.36311	0.0807622	0.27147669	2.3621874	21	—	—
426631 2013 SC_{64}	17.5	X	121.93545	177.29437	155.30343	6.46054	0.1604988	0.28613421	2.2808122	21	—	—
426632 2013 SR_{64}	17.3	X	218.39813	255.27101	165.80511	5.44195	0.1925939	0.22342762	2.6897473	21	6 16.5	21.7
426633 2013 SO_{66}	16.8	X	14.94408	308.01823	39.30877	9.76527	0.2226989	0.25516267	2.4618294	21	11 22.8	19.3
426634 2013 SZ_{66}	17.8	X	98.02769	291.24917	42.56604	5.49837	0.1646646	0.28160296	2.3052140	21	—	—
426635 2013 SM_{67}	18.1	X	22.15426	66.53899	17.50794	8.09134	0.0857012	0.29026010	2.2591470	21	—	—
426636 2013 ST_{67}	17.1	X	294.05933	267.55140	122.06789	5.81650	0.1994112	0.23655995	2.5892575	21	7 31.3	20.1
426637 2013 SG_{68}	16.7	X	227.63390	20.99856	22.78426	6.23477	0.0415114	0.22035392	2.7147022	21	6 14.5	20.6
426638 2013 SJ_{70}	17.9	X	308.19655	338.50831	27.18695	3.48829	0.1077882	0.23599135	2.5934149	21	8 5.3	20.8
426639 2013 SE_{71}	17.1	X	309.61750	148.83136	185.84309	1.96377	0.2261138	0.22871268	2.6481499	21	6 2.9	20.2
426640 2013 SW_{71}	16.3	X	185.46625	306.15133	94.56165	6.88032	0.1265457	0.20055619	2.8905379	21	4 26.7	20.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
426641 2013 SA_{72}	17.3	X	137.50221	144.09609	143.15685	7.30926	0.1285934	0.27946050	2.3169807	21	—	—
426642 2013 SG_{72}	16.8	X	282.78701	105.96285	172.68553	12.23786	0.0083970	0.19865741	2.9089273	21	3 20.5	20.7
426643 2013 SZ_{72}	16.5	X	283.68569	232.21298	156.66376	13.61212	0.1631825	0.23193593	2.6235581	21	7 18.9	20.0
426644 2013 SE_{75}	18.1	X	95.55786	218.71754	106.53519	3.08259	0.2265986	0.27917122	2.3185811	21	—	—
426645 2013 SJ_{75}	17.5	X	232.95499	339.26180	127.44977	3.33209	0.0785425	0.24019922	2.5630376	21	9 11.8	21.1
426646 2013 SX_{75}	15.9	X	188.16420	12.32729	336.50508	14.95562	0.1516419	0.18471309	3.0535446	21	2 25.7	20.7
426647 2013 SB_{76}	17.7	X	214.27226	183.85938	204.86689	4.64403	0.1699981	0.21458364	2.7631533	21	5 5.0	22.3
426648 2013 SV_{78}	17.0	X	267.79638	136.95016	268.68252	4.09743	0.1734297	0.22712743	2.6604575	21	7 19.5	20.6
426649 2013 SD_{79}	17.5	X	82.90241	144.09701	271.80491	7.13578	0.0961167	0.29669109	2.2263822	21	—	—
426650 2013 SR_{79}	17.0	X	258.62151	235.50424	152.35603	13.86800	0.2149605	0.22648488	2.6654871	21	6 12.3	21.3
426651 2013 SO_{80}	17.1	X	214.45330	175.73715	355.15148	4.88773	0.1530592	0.25616224	2.4554210	21	11 2.9	20.6
426652 2013 SC_{81}	17.6	X	47.74266	335.95611	340.13832	0.54385	0.1912651	0.25958066	2.4338165	21	11 24.9	20.6
426653 2013 SA_{82}	16.4	X	82.83952	14.44837	353.56427	23.69332	0.1718696	0.28745385	2.2738264	21	—	—
426654 2013 SB_{84}	15.3	X	169.50640	6.04198	307.83581	13.63530	0.0439659	0.17150962	3.2083154	21	—	—
426655 2013 SD_{84}	17.0	X	212.04514	22.28405	24.32437	5.09639	0.1564741	0.21271511	2.7793111	21	5 24.3	21.6
426656 2013 SB_{86}	15.9	X	118.24773	98.09616	325.41177	15.16667	0.2420758	0.17661997	3.1461265	21	3 23.8	21.0
426657 2013 SL_{86}	16.2	X	199.93986	239.18571	147.55932	6.33614	0.0599906	0.20125935	2.8838013	21	4 23.7	20.5
426658 2013 TW_{1}	16.5	X	290.23766	123.84274	232.54288	5.47502	0.0546123	0.22190079	2.7020714	21	7 1.3	20.1
426659 2013 TA_{2}	16.9	X	347.64760	194.81925	282.50031	8.39060	0.0978030	0.28406647	2.2918669	21	—	—
426660 2013 TP_{2}	17.4	X	191.48280	168.33275	94.35735	3.39481	0.0616707	0.28462500	2.2888677	21	—	—
426661 2013 TW_{2}	17.2	X	310.25387	147.89228	183.23194	1.91625	0.0922597	0.22729325	2.6591634	21	6 20.5	20.4
426662 2013 TZ_{2}	16.7	X	244.52325	75.51394	31.86922	18.20429	0.2096999	0.23420237	2.6066048	21	9 16.9	20.8
426663 2013 TR_{3}	15.8	X	308.70899	256.95515	70.47830	16.09999	0.1158156	0.21862496	2.7289959	21	6 8.8	19.1
426664 2013 TS_{3}	16.4	X	240.99750	311.93781	78.74149	7.34533	0.0569687	0.21260821	2.7802426	21	6 12.7	20.4
426665 2013 TF_{7}	16.5	X	222.20077	5.41778	60.25793	9.10739	0.1347542	0.21599263	2.7511235	21	6 29.5	20.8
426666 2013 TO_{7}	16.4	X	274.50512	54.53840	341.74988	12.46268	0.1004151	0.23320224	2.6140521	21	7 31.3	19.9
426667 2013 TU_{8}	18.0	X	117.52419	324.90689	359.99136	4.80993	0.1504062	0.28553816	2.2839851	21	—	—
426668 2013 TV_{8}	17.0	X	320.21791	85.97636	2.94640	7.08438	0.0660037	0.26804523	2.3823048	21	12 30.4	19.8
426669 2013 TC_{9}	16.6	X	211.78029	267.96126	168.83545	13.39320	0.1756266	0.21418005	2.7666234	21	6 30.5	21.4
426670 2013 TR_{13}	17.1	X	207.43245	249.87566	161.55228	4.84947	0.0707582	0.21147622	2.7901551	21	5 31.2	21.3
426671 2013 TX_{13}	17.7	X	176.93604	231.26942	56.45969	3.87955	0.1032193	0.28973294	2.2618864	21	—	—
426672 2013 TZ_{13}	17.0	X	266.86384	311.69123	98.57571	3.64007	0.0923905	0.23113294	2.6296311	21	8 7.5	20.4
426673 2013 TH_{14}	16.8	X	194.63260	322.00076	98.17915	4.42887	0.0530756	0.20946097	2.8080229	21	5 28.1	20.8
426674 2013 TV_{14}	15.9	X	131.21298	142.20738	215.78736	7.22163	0.0919194	0.17013710	3.2255470	21	1 8.4	20.7
426675 2013 TD_{15}	18.0	X	74.69933	191.06130	97.23963	3.39975	0.1637429	0.25842708	2.4410539	21	11 17.4	21.4
426676 2013 TX_{17}	16.2	X	113.65172	62.66800	358.19954	9.41391	0.0879167	0.17821420	3.1273357	21	3 4.6	20.7
426677 2013 TS_{18}	16.6	X	72.24295	119.33913	323.13728	7.93640	0.0672837	0.17545686	3.1600151	21	2 3.3	20.9
426678 2013 TB_{19}	17.1	X	239.84520	227.94623	294.18676	5.03339	0.0468243	0.26448107	2.4036597	21	12 10.6	20.2
426679 2013 TM_{19}	16.6	X	221.95980	245.82107	200.84415	21.59200	0.0548077	0.23041245	2.6351101	21	7 28.8	20.8
426680 2013 TS_{19}	17.0	X	252.20527	303.56748	50.74332	3.05304	0.0936860	0.21101417	2.7942267	21	5 5.8	21.2
426681 2013 TL_{20}	16.0	X	202.49020	136.93520	152.45347	1.58356	0.1511299	0.17565553	3.1576318	21	1 2.5	21.2
426682 2013 TF_{21}	17.4	X	272.83320	164.50386	28.38598	7.35665	0.0471400	0.28720189	2.2751560	21	—	—
426683 2013 TO_{21}	16.9	X	131.73020	291.87458	132.45838	2.73364	0.0865103	0.18916483	3.0054473	21	3 27.7	21.2
426684 2013 TQ_{21}	16.3	X	101.93066	29.60596	28.13395	6.88226	0.0954635	0.17674058	3.1446950	21	2 17.4	20.7
426685 2013 TA_{22}	17.3	X	302.74798	304.41577	58.55691	2.52582	0.1115754	0.23136255	2.6278910	21	7 21.8	20.4
426686 2013 TB_{22}	17.2	X	251.96252	339.42651	29.46432	6.98810	0.0801012	0.21528706	2.7571312	21	5 24.4	21.3
426687 2013 TZ_{22}	16.9	X	281.51660	254.10330	74.13431	1.53004	0.0723553	0.21377110	2.7701507	21	5 10.6	20.6
426688 2013 TQ_{23}	16.6	X	66.52237	34.51777	54.42017	1.66193	0.1393627	0.17233497	3.1980637	21	2 12.4	20.6
426689 2013 TC_{26}	16.3	X	236.37185	52.63964	213.32545	2.53539	0.0617354	0.17489238	3.1668108	21	1 8.5	21.0
426690 2013 TM_{26}	17.2	X	339.59400	115.08298	186.37955	2.98326	0.0924089	0.22436372	2.6822605	21	6 26.1	20.2
426691 2013 TU_{26}	17.2	X	292.50203	153.95368	188.20210	6.06237	0.0114689	0.21889645	2.7267390	21	6 21.9	20.9
426692 2013 TC_{27}	17.9	X	270.42542	201.37748	9.13299	7.49872	0.0476064	0.29292384	2.2454300	21	—	—
426693 2013 TT_{27}	16.6	X	258.46617	94.51225	193.06087	10.34126	0.0527755	0.19038153	2.9926287	21	2 22.9	21.1
426694 2013 TG_{28}	16.6	X	217.94302	310.01243	60.84813	2.98784	0.0831678	0.20275018	2.8696475	21	4 21.0	20.9
426695 2013 TR_{28}	16.5	X	199.73044	52.97578	39.30889	5.03649	0.0906189	0.21545255	2.7557192	21	7 13.6	20.7
426696 2013 TW_{28}	17.4	X	26.49864	159.43717	195.97970	5.83816	0.1303524	0.25848929	2.4406623	21	12 9.8	20.4
426697 2013 TP_{29}	16.4	X	339.71507	114.47417	173.25403	4.38770	0.0791945	0.20955188	2.8072107	21	6 8.9	19.8
426698 2013 TX_{30}	17.7	X	126.51078	312.40536	17.16910	3.27783	0.1743795	0.28879828	2.2667641	21	—	—
426699 2013 TY_{30}	18.0	X	191.65577	270.58023	329.15272	6.53469	0.1396290	0.28033210	2.3121757	21	—	—
426700 2013 TQ_{31}	16.1	X	163.01394	359.83622	359.28410	9.38553	0.0818239	0.17848825	3.1241338	21	2 13.9	20.9
426701 2013 TS_{31}	17.4	X	47.28145	108.27128	231.79165	5.20142	0.1581615	0.26085739	2.4258687	21	12 21.1	20.7
426702 2013 TD_{32}	17.7	X	163.02981	302.01222	349.70271	5.42867	0.1648677	0.29731168	2.2232829	21	—	—
426703 2013 TM_{32}	16.6	X	218.07290	199.51155	211.23736	14.03167	0.0457884	0.21187679	2.7866374	21	6 12.1	20.8
426704 2013 TN_{32}	16.9	X	191.29337	168.53001	231.61771	2.58255	0.1120006	0.19860142	2.9094740	21	4 28.7	21.4
426705 2013 TR_{33}	17.7	X	183.46271	61.95979	197.32500	5.23094	0.0816103	0.28657793	2.2784573	21	—	—
426706 2013 TN_{34}	17.0	X	287.65380	70.55463	37.22858	15.10000	0.0376014	0.25718398	2.4489134	21	12 1.4	20.2
426707 2013 TS_{34}	15.6	X	86.55505	22.10035	48.82715	16.64102	0.0693972	0.16928114	3.2364110	21	2 16.6	20.4
426708 2013 TQ_{36}	17.1	X	246.23313	266.19631	120.64903	4.67670	0.1117511	0.21900841	2.7258096	21	6 8.1	21.0
426709 2013 TN_{37}	17.0	X	340.77968	1.84917	343.55203	8.68924	0.1766098	0.23789848	2.5795361	21	8 31.2	19.3
426710 2013 TH_{39}	16.7	X	169.78204	92.72967	27.59331	9.26247	0.0781730	0.21717585	2.7411219	21	7 18.5	20.9
426711 2013 TX_{39}	17.5	X	31.17764	131.35614	210.22991	6.01104	0.0930680	0.25290391	2.4764659	21	11 21.0	20.5
426712 2013 TJ_{40}	16.8	X	231.98765	202.36602	204.18491	6.39092	0.0810651	0.21574795	2.7532032	21	6 20.1	20.9
426713 2013 TE_{41}	16.7	X	247.84168	172.31796	205.19385	3.86120	0.0879169	0.21301120	2.7767349	21	5 31.6	20.7
426714 2013 TO_{42}	16.5	X	292.16411	344.22382	328.61548	7.40961	0.2093627	0.21476037	2.7616372	21	4 10.2	20.5
426715 2013 TQ_{43}	17.9	X	52.42867	328.29557	8.39966	4.88520	0.1394916	0.26321625	2.4113537	21	12 20.8	21.2
426716 2013 TF_{45}	17.6	X	233.39086	248.41919	10.33119	7.05820	0.0859528	0.29679991	2.2258379	21	—	—
426717 2013 TT_{45}	17.4	X	195.12938	231.97413	355.75850	1.87105	0.1600609	0.27252622	2.3561188	21	12 27.9	20.8
426718 2013 TP_{46}	17.2	X	186.31539	1.93757	9.36202	2.02648	0.0902579	0.19055506	2.9908116	21	3 20.4	21.7
426719 2013 TC_{47}	17.4	X	19.81231	263.29047	7.13844	3.44976	0.1198306	0.22607083	2.6687406	21	7 25.1	20.2
426720 2013 TJ_{47}	16.8	X	231.88400	349.71440	29.40372	1.94195	0.1182201	0.20842125	2.8173537	21	5 12.5	21.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
426721 2013 TP_{49}	16.1	X	194.11787	301.75462	26.81453	6.56004	0.1366990	0.18104565	3.0946437	21	2 10.3	21.1
426722 2013 TZ_{50}	16.8	X	280.90407	9.25394	23.51384	5.49586	0.1611717	0.22907807	2.6453331	21	7 23.6	20.3
426723 2013 TM_{51}	13.9	X	229.95379	165.82013	223.86265	3.81730	0.1697102	0.08227239	5.2356020	21	5 25.6	21.4
426724 2013 TX_{51}	17.1	X	208.26042	138.00763	252.85567	1.71473	0.2213239	0.20556900	2.8433542	21	4 30.7	22.0
426725 2013 TM_{52}	16.6	X	270.96126	358.81705	345.32612	8.02863	0.2274961	0.21396374	2.7684877	21	4 24.6	21.1
426726 2013 TQ_{52}	16.3	X	26.31976	266.58497	5.12827	13.34458	0.1473522	0.22759084	2.6568449	21	8 16.3	19.4
426727 2013 TU_{52}	15.6	X	157.81345	106.13087	255.05356	8.06232	0.0805167	0.17454229	3.1710440	21	2 5.7	20.4
426728 2013 TW_{52}	17.0	X	280.37585	27.68569	351.36760	7.83975	0.1446034	0.22390530	2.6859204	21	7 6.2	20.6
426729 2013 TH_{53}	16.0	X	335.27406	309.98457	355.43697	9.12619	0.1138309	0.22125907	2.7072934	21	6 22.8	19.3
426730 2013 TS_{57}	16.5	X	109.27724	152.08117	295.29357	5.05096	0.1024982	0.18552224	3.0446594	21	3 28.6	20.8
426731 2013 TY_{58}	16.5	X	123.60148	38.72455	355.18538	9.50814	0.1207321	0.17385057	3.1794498	21	2 17.5	21.1
426732 2013 TP_{60}	15.8	X	125.42638	70.09017	345.99397	9.70377	0.1079323	0.18118014	3.0931121	21	3 12.3	20.3
426733 2013 TV_{63}	17.4	X	314.89994	49.61991	298.01225	0.91944	0.1577171	0.23025481	2.6363126	21	7 12.3	20.3
426734 2013 TF_{67}	16.8	X	196.30624	130.08115	315.08468	12.52461	0.2181242	0.22168498	2.7038247	21	6 27.6	21.5
426735 2013 TE_{72}	16.7	X	338.01638	268.49758	24.46495	8.77834	0.1031063	0.21826487	2.7319966	21	6 9.1	20.0
426736 2013 TZ_{72}	17.4	X	116.09921	241.71913	51.25248	6.04117	0.1897082	0.27037620	2.3685928	21	—	—
426737 2013 TY_{75}	16.5	X	220.93928	147.02806	246.03564	2.77477	0.1068511	0.20999659	2.8032461	21	5 19.6	20.7
426738 2013 TW_{77}	15.5	X	129.02288	117.55908	222.03691	9.29929	0.0146925	0.15763463	3.3939203	21	—	—
426739 2013 TQ_{78}	16.3	X	112.10876	45.92384	5.31605	9.80368	0.0957968	0.17698783	3.1417656	21	2 22.0	20.8
426740 2013 TG_{79}	18.1	X	122.33595	127.26368	201.60461	6.63106	0.1379864	0.28778476	2.2720830	21	—	—
426741 2013 TJ_{80}	17.2	X	229.42407	340.86955	86.81756	3.26444	0.0694134	0.22353302	2.6889017	21	7 16.6	20.9
426742 2013 TJ_{83}	17.9	X	204.50800	2.25863	303.57188	2.77116	0.1834083	0.30623197	2.1798956	21	1 4.3	21.3
426743 2013 TW_{83}	17.0	X	98.90750	316.96190	255.41098	4.11435	0.0843194	0.22864071	2.6487055	21	8 22.8	20.8
426744 2013 TA_{84}	16.7	X	207.75092	60.20609	357.42504	6.23042	0.0367436	0.21133619	2.7913875	21	6 8.5	20.7
426745 2013 TD_{84}	17.1	X	244.48985	54.89136	340.19254	3.90949	0.0735133	0.21669376	2.7451860	21	6 20.9	21.0
426746 2013 TZ_{88}	16.4	X	172.01481	357.38157	8.81157	8.73168	0.0721410	0.18076076	3.0978944	21	3 2.3	21.1
426747 2013 TL_{89}	16.8	X	304.45089	72.80305	250.45672	3.03513	0.0699748	0.21471198	2.7620521	21	6 4.5	20.5
426748 2013 TW_{89}	16.5	X	53.97546	212.02799	12.27698	6.65659	0.0329471	0.21542969	2.7559141	21	7 3.7	20.2
426749 2013 TN_{90}	18.0	X	0.95510	339.81237	198.26255	6.41901	0.1594031	0.31015653	2.1614678	21	1 6.3	20.1
426750 2013 TB_{92}	16.7	X	114.40651	336.53312	61.80448	0.35408	0.1853762	0.17388109	3.1790777	21	2 18.6	21.3
426751 2013 TC_{92}	16.8	X	307.39807	34.29826	312.96198	10.62963	0.1807123	0.23230125	2.6208069	21	6 25.8	19.9
426752 2013 TE_{92}	17.3	X	295.31353	334.17444	28.55912	2.80799	0.0928308	0.22339923	2.6899752	21	7 12.6	20.7
426753 2013 TN_{92}	16.5	X	252.40784	19.41036	32.24357	5.52904	0.1011524	0.22209178	2.7005220	21	7 20.6	20.3
426754 2013 TE_{93}	16.4	X	228.73090	39.03948	36.80933	6.61056	0.0557502	0.22263693	2.6961119	21	7 30.1	20.3
426755 2013 TA_{94}	16.2	X	107.27772	266.99954	181.67492	3.77234	0.1014959	0.18104107	3.0946959	21	3 31.2	20.5
426756 2013 TC_{94}	16.5	X	242.51909	318.44331	94.70095	2.58579	0.0589426	0.21884322	2.7271812	21	7 14.5	20.4
426757 2013 TF_{94}	15.6	X	292.52581	172.06745	66.14317	10.42604	0.0638577	0.17220427	3.1996817	21	2 10.6	20.3
426758 2013 TP_{94}	16.7	X	357.14897	348.39025	338.84002	6.54632	0.1229403	0.23845047	2.5755536	21	9 5.0	19.2
426759 2013 TU_{98}	16.4	X	168.70164	235.68628	135.32528	4.06101	0.0476494	0.18048523	3.1010464	21	3 1.2	20.9
426760 2013 TP_{99}	17.6	X	234.87829	322.42753	335.99032	5.54697	0.0712123	0.30737144	2.1745048	21	1 23.7	20.5
426761 2013 TQ_{99}	15.9	X	66.47190	97.36617	15.73011	15.61782	0.1458299	0.17204807	3.2016180	21	3 18.7	20.0
426762 2013 TR_{99}	15.6	X	108.50468	357.96107	5.88425	9.61099	0.1420061	0.15755850	3.3950134	21	—	—
426763 2013 TZ_{99}	16.5	X	222.73652	67.79487	13.41871	9.18261	0.2136931	0.21606389	2.7505187	21	7 16.2	21.1
426764 2013 TB_{100}	16.0	X	206.49507	318.99444	15.98870	10.10455	0.0759554	0.17987206	3.1080900	21	3 2.1	20.8
426765 2013 TC_{101}	17.7	X	159.08006	303.52784	7.34688	6.33856	0.1161485	0.29155972	2.2524286	21	—	—
426766 2013 TM_{102}	17.3	X	35.09023	146.22993	159.81976	0.64895	0.1021275	0.24312678	2.5424213	21	10 8.5	20.3
426767 2013 TG_{104}	17.0	X	321.17488	340.43403	311.51796	1.66127	0.1797278	0.21495542	2.7599663	21	4 30.2	20.2
426768 2013 TP_{104}	16.8	X	208.06727	171.71555	235.56179	3.47838	0.0785664	0.20836892	2.8178255	21	5 25.5	21.1
426769 2013 TS_{104}	16.0	X	109.27625	42.11821	14.70017	9.75126	0.0265525	0.17671440	3.1450056	21	2 16.6	20.5
426770 2013 TO_{105}	17.1	X	340.39504	98.63068	239.75472	11.10728	0.2147682	0.23679517	2.5875425	21	8 9.9	19.6
426771 2013 TE_{107}	17.5	X	2.84535	159.66170	169.34769	2.56187	0.1513800	0.23976177	2.5661543	21	9 21.7	20.0
426772 2013 TS_{107}	16.8	X	239.93494	192.55714	187.33179	4.29164	0.0824615	0.21039724	2.7996862	21	5 26.5	20.8
426773 2013 TW_{107}	17.0	X	239.26823	280.04473	99.99561	1.89405	0.0842386	0.21003028	2.8029462	21	5 25.3	21.2
426774 2013 TA_{108}	16.4	X	170.22409	3.31749	66.41523	2.98713	0.0526489	0.20103840	2.8859139	21	5 12.2	20.6
426775 2013 TF_{112}	16.5	X	202.62719	40.18234	50.17084	4.90124	0.0383473	0.22067696	2.7120523	21	7 17.2	20.3
426776 2013 TG_{112}	17.2	X	101.19986	93.48258	189.57703	4.49496	0.2301836	0.26452551	2.4033905	21	12 11.5	21.3
426777 2013 TH_{112}	15.9	X	339.23724	189.42045	23.56602	15.98326	0.0364300	0.18644908	3.0345611	21	3 13.9	20.2
426778 2013 TL_{113}	16.7	X	1.20705	128.48647	202.20474	12.93572	0.1546441	0.23971413	2.5664942	21	9 18.2	19.3
426779 2013 TG_{114}	16.8	X	44.59638	199.39456	44.59753	6.55547	0.0384682	0.22079265	2.7111048	21	7 18.8	20.3
426780 2013 TW_{114}	16.9	X	77.52838	301.61963	29.11259	7.58822	0.2435938	0.26724226	2.3870744	21	—	—
426781 2013 TG_{115}	16.1	X	143.99469	4.29030	38.78298	5.06634	0.1151748	0.17841481	3.1249911	21	3 20.2	20.8
426782 2013 TP_{116}	16.6	X	283.60002	29.91768	316.20859	3.83537	0.1240216	0.21566858	2.7538786	21	5 28.2	20.3
426783 2013 TL_{120}	18.0	X	109.42635	212.99310	112.78481	4.25143	0.2136085	0.28238991	2.3009292	21	—	—
426784 2013 TR_{120}	16.8	X	109.03734	54.33349	341.20403	2.40327	0.1339587	0.16993207	3.2281409	21	2 3.5	21.4
426785 2013 TZ_{123}	17.1	X	337.47908	283.72198	6.86119	4.81143	0.1399214	0.21972601	2.7198716	21	6 1.1	20.2
426786 2013 TC_{125}	15.6	X	52.65142	37.00033	353.17378	9.33416	0.1089227	0.14692690	3.5568741	21	—	—
426787 2013 TY_{127}	16.1	X	6.64559	331.39242	194.63637	17.23391	0.0736604	0.18045914	3.1013454	21	2 8.8	20.4
426788 2013 TQ_{128}	15.8	X	167.36985	132.85407	209.02531	11.34858	0.1197964	0.17992883	3.1074361	21	1 25.9	20.9
426789 2013 TR_{128}	16.3	X	115.18747	109.58800	336.68380	9.11473	0.1260191	0.19124248	2.9836404	21	4 4.9	20.8
426790 2013 TA_{130}	15.9	X	114.12866	1.32324	9.94728	5.57822	0.1393209	0.16818380	3.2504733	21	1 13.6	20.6
426791 2013 TF_{130}	15.5	X	81.85203	248.43180	187.36390	26.00813	0.1698533	0.17223180	3.1993407	21	2 18.4	20.0
426792 2013 TQ_{131}	16.0	X	163.57453	186.84644	209.78990	14.86253	0.0761626	0.18609376	3.0384225	21	3 24.7	20.7
426793 2013 TR_{131}	17.4	X	354.86050	190.41767	132.80900	5.52161	0.2343237	0.24222248	2.5487452	21	9 1.5	19.2
426794 2013 TT_{131}	17.5	X	71.81083	250.25987	72.52782	6.38714	0.2522567	0.26540991	2.3980485	21	—	—
426795 2013 TG_{133}	16.2	X	108.12992	275.11569	154.21847	11.73145	0.0805106	0.17733112	3.1377096	21	3 6.7	20.7
426796 2013 TK_{133}	15.6	X	89.84623	137.20041	320.67677	12.06294	0.1202061	0.17573362	3.1566964	21	3 18.8	20.0
426797 2013 TM_{133}	16.6	X	242.88191	114.40643	257.77478	3.39784	0.0939039	0.21464909	2.7625916	21	5 17.4	20.5
426798 2013 TX_{133}	16.6	X	97.72306	27.28314	52.61968	1.60799	0.1381365	0.17880887	3.1203982	21	3 14.7	20.9
426799 2013 TD_{134}	16.1	X	126.12509	37.29429	16.48632	8.35179	0.0300267	0.18348057	3.0672040	21	3 3.6	20.5
426800 2013 TH_{134}	16.3	X	183.65036	208.95022	182.12299	12.95892	0.0899306	0.19265975	2.9689899	21	4 11.7	20.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
426801 2013 TA_{135}	17.6	X	81.61343	285.46520	47.97951	2.85435	0.1989144	0.26963148	2.3729522	21	—	—
426802 2013 TJ_{136}	16.1	X	106.55887	83.94321	358.81231	5.81224	0.1517907	0.18120537	3.0928250	21	3 29.0	20.4
426803 2013 TO_{136}	15.9	X	254.26744	308.89253	80.69228	26.26729	0.1539362	0.21351482	2.7723669	21	6 14.9	20.1
426804 2013 TP_{136}	16.1	X	186.68806	276.41114	113.21860	13.32077	0.1878378	0.19035834	2.9928718	21	4 19.4	21.3
426805 2013 TD_{137}	16.2	X	134.81168	197.66625	198.17673	5.10757	0.1592204	0.18183654	3.0856638	21	3 3.2	21.0
426806 2013 TO_{137}	16.4	X	107.08361	111.62262	354.18425	15.72392	0.2630344	0.18038850	3.1021549	21	5 5.2	21.5
426807 2013 TT_{137}	16.8	X	211.79606	348.30241	77.94994	5.72626	0.0539720	0.21389027	2.7691216	21	6 24.5	20.9
426808 2013 TK_{138}	17.2	X	258.62510	194.56601	170.88673	3.81673	0.1093025	0.21533977	2.7566813	21	5 26.3	21.1
426809 2013 TP_{138}	16.0	X	299.87865	266.82808	78.30574	7.02228	0.0758854	0.21977256	2.7194875	21	6 26.9	19.4
426810 2013 TD_{139}	16.7	X	21.23830	189.59706	143.32660	10.30644	0.2659385	0.24490819	2.5300776	21	11 22.9	19.7
426811 2013 TH_{140}	16.8	X	261.35037	180.18687	221.55790	13.69331	0.0997854	0.22321373	2.6914653	21	7 13.9	20.9
426812 2013 TR_{140}	16.2	X	126.86922	295.67436	75.79650	2.20774	0.1085780	0.17112274	3.2131492	21	1 22.8	20.9
426813 2013 TZ_{140}	16.6	X	322.84884	234.84153	36.38971	2.42448	0.0114813	0.20444239	2.8537905	21	4 29.9	20.4
426814 2013 TF_{141}	17.2	X	149.64856	148.67750	45.96312	1.12668	0.0885335	0.24214895	2.5492611	21	9 30.5	21.0
426815 2013 TW_{141}	17.9	X	232.71504	89.53769	177.32158	3.09889	0.1722737	0.30450319	2.1881385	21	—	—
426816 2013 TO_{144}	16.6	X	286.49073	278.83951	76.16669	4.06530	0.0179475	0.21929925	2.7233991	21	6 30.4	20.2
426817 2013 TT_{145}	17.4	X	168.13026	209.33450	146.70334	5.33781	0.1722121	0.30594594	2.1812541	21	1 31.6	20.4
426818 2013 TU_{145}	17.3	X	292.11286	256.72576	88.41206	5.27718	0.2699528	0.22451324	2.6810695	21	5 17.2	20.9
426819 2013 TU_{156}	16.6	X	179.66850	115.24104	245.91585	0.71299	0.0994590	0.17809656	3.1287128	21	3 3.0	21.5
426820 2013 UU_{5}	16.0	X	229.34023	335.77160	61.56521	7.04857	0.0558999	0.21127852	2.7918954	21	6 7.1	19.9
426821 2013 UJ_{6}	16.7	X	14.19780	68.06692	236.03601	9.77003	0.1331543	0.23463590	2.6033931	21	8 29.2	19.7
426822 2013 UT_{6}	15.6	X	108.33090	73.04152	308.78678	12.72107	0.1882363	0.16997009	3.2276595	21	1 24.8	20.2
426823 2013 UD_{7}	16.7	X	337.84172	42.25343	308.93460	4.89003	0.0896417	0.23537753	2.5979216	21	9 2.9	19.7
426824 2013 UQ_{7}	16.3	X	301.08600	237.72458	104.09609	13.44276	0.1839179	0.21765648	2.7370852	21	6 8.6	19.8
426825 2013 UY_{7}	16.3	X	136.52482	43.40308	353.65994	9.03982	0.1075203	0.17755989	3.1350139	21	3 3.8	21.0
426826 2013 UH_{8}	16.7	X	359.99599	219.03844	98.44601	9.07740	0.1931243	0.23627748	2.5913207	21	9 5.0	19.1
426827 2013 UG_{14}	16.8	X	325.16112	245.04820	103.68694	5.75684	0.2400682	0.23302042	2.6154117	21	7 22.7	19.1
426828 2013 UQ_{14}	16.8	X	261.64395	246.62415	156.85617	4.94470	0.0821595	0.22441778	2.6818298	21	7 22.0	20.5
426829 2013 VZ	17.3	X	167.98642	219.58828	87.42456	3.94972	0.1878926	0.29284509	2.2458328	21	—	—
426830 2013 VD_{1}	16.0	X	106.33629	222.24648	244.65799	8.14346	0.0969895	0.18351752	3.0667923	21	4 18.7	20.4
426831 2013 VP_{2}	16.4	X	4.77029	126.06965	201.65040	11.40326	0.1356681	0.23902552	2.5714211	21	9 19.4	19.2
426832 2013 VV_{2}	15.6	X	102.47699	138.28044	302.94955	8.80711	0.0967916	0.17636433	3.1491660	21	3 11.9	20.1
426833 2013 VX_{2}	15.7	X	127.87235	103.58889	297.98511	10.09612	0.1374319	0.17374019	3.1807963	21	2 26.9	20.5
426834 2013 VG_{3}	15.9	X	97.23649	171.01451	275.08149	11.75293	0.0948595	0.17776882	3.1325570	21	3 8.5	20.5
426835 2013 VM_{3}	16.0	X	168.60160	328.75549	53.97320	12.57242	0.0400430	0.18242261	3.0790514	21	3 20.2	20.7
426836 2013 VD_{7}	16.0	X	141.71244	81.41950	335.38743	10.49865	0.1418639	0.18412983	3.0599896	21	3 30.5	20.8
426837 2013 VL_{7}	16.0	X	30.02758	157.67963	351.71473	10.71939	0.0426464	0.18003148	3.1062548	21	2 27.0	20.0
426838 2013 VQ_{7}	16.7	X	233.99365	172.12524	235.14580	3.64936	0.0687010	0.21393985	2.7686938	21	6 24.7	20.8
426839 2013 VC_{8}	15.9	X	87.10030	101.84337	31.27567	10.43201	0.0575471	0.18978628	2.9988829	21	4 22.9	20.0
426840 2013 VM_{8}	16.5	X	168.11252	225.98561	169.83972	1.14137	0.1188490	0.18394321	3.0620589	21	4 2.6	21.3
426841 2013 VV_{9}	15.9	X	244.07861	261.52599	170.60835	21.65418	0.0906587	0.22223069	2.6993966	21	8 4.2	20.0
426842 2013 VJ_{10}	17.0	X	28.79917	118.96914	203.78245	13.63115	0.1411374	0.24564171	2.5250383	21	10 29.1	19.9
426843 2013 VP_{10}	17.1	X	352.77775	359.97234	346.85894	3.33744	0.1457086	0.23914190	2.5705868	21	9 26.9	19.5
426844 2013 VV_{11}	16.9	X	244.13095	250.97642	233.07394	26.60780	0.2756578	0.24149893	2.5538335	21	9 12.6	21.5
426845 2013 VH_{14}	15.6	X	280.01065	240.14362	3.05592	10.37920	0.0403152	0.17266774	3.1939535	21	2 4.7	20.3
426846 2013 VG_{15}	17.0	X	328.80454	218.55367	134.77824	6.26724	0.1162921	0.22847580	2.6499799	21	8 21.1	19.9
426847 2013 VF_{16}	16.8	X	324.05145	260.85313	91.35340	8.28315	0.2128563	0.23210522	2.6222823	21	7 30.9	19.3
426848 2013 VF_{19}	16.2	X	143.33251	280.52395	127.41357	4.10428	0.3192652	0.18352874	3.0666672	21	4 9.6	21.5
426849 2013 VR_{20}	15.9	X	208.99799	305.50923	41.45874	15.68180	0.0934657	0.18634562	3.0356842	21	3 21.5	20.8
426850 2013 VB_{21}	16.4	X	263.39634	271.31698	86.32794	8.56576	0.2323033	0.21402076	2.7679959	21	5 8.9	20.7
426851 2013 VQ_{22}	15.9	X	88.21407	114.19718	345.46810	14.16836	0.1710532	0.17511351	3.1641443	21	3 27.6	20.2
426852 2013 VX_{22}	16.0	X	118.00777	39.72007	76.63063	11.37061	0.1043218	0.19340613	2.9613465	21	5 18.2	20.3
426853 2013 VB_{23}	16.3	X	176.55670	148.34434	226.65641	8.77319	0.1662310	0.18596555	3.0398190	21	3 15.5	21.5
426854 2013 WJ_{1}	16.1	X	121.26318	337.04477	139.34252	6.12337	0.1236142	0.19176494	2.9782187	21	5 24.3	20.6
426855 2013 WL_{1}	15.7	X	315.75907	127.99938	113.84689	7.37473	0.0259469	0.18191419	3.0847857	21	3 18.4	20.0
426856 2013 WV_{2}	15.9	X	166.72014	132.83251	229.09985	16.38696	0.2285970	0.17754901	3.1351420	21	2 20.9	21.5
426857 2013 WH_{3}	15.9	X	185.30982	103.14376	283.32795	12.85941	0.1822365	0.18618033	3.0374806	21	4 2.3	21.3
426858 2013 WJ_{4}	16.4	X	98.01207	43.53845	53.96540	9.80204	0.1617655	0.17465934	3.1696271	21	4 11.9	20.9
426859 2013 WP_{4}	15.6	X	139.11266	159.70601	238.76016	16.33420	0.0102708	0.17249821	3.1960458	21	2 17.7	20.5
426860 2013 WX_{4}	16.1	X	260.12859	257.40112	113.40575	9.83140	0.2202606	0.21205696	2.7850588	21	5 23.7	20.6
426861 2013 WG_{5}	16.1	X	163.81336	230.91956	156.87721	11.42538	0.1537330	0.18070341	3.0985498	21	3 23.9	21.1
426862 2013 WJ_{5}	15.7	X	141.36006	288.50854	131.21251	12.42574	0.0882426	0.18104398	3.0946627	21	4 6.5	20.5
426863 2013 WZ_{5}	15.9	X	141.53010	261.48251	141.21285	10.09889	0.0897102	0.17512644	3.1639885	21	3 15.4	20.7
426864 2013 WK_{6}	16.2	X	265.93338	262.79959	97.89084	12.74065	0.2349384	0.21102229	2.7941550	21	5 16.5	20.6
426865 2013 WA_{7}	15.8	X	187.97329	260.07563	107.96904	10.69276	0.1782328	0.18243823	3.0788756	21	3 25.5	21.1
426866 2013 WC_{7}	17.1	X	328.00869	28.37857	338.44003	2.70304	0.2625588	0.23635794	2.5907326	21	8 26.2	18.7
426867 2013 WU_{8}	15.8	X	135.36880	144.13188	255.82507	6.92559	0.0439114	0.17076129	3.2176818	21	2 23.3	20.6
426868 2013 WL_{15}	17.3	X	130.02112	71.68515	150.80323	1.57560	0.0764464	0.23034115	2.6356538	21	10 13.1	21.0
426869 2013 WQ_{19}	15.7	X	277.19894	179.00014	101.85617	12.57551	0.0445648	0.17599920	3.1535199	21	3 19.8	20.4
426870 2013 WJ_{21}	15.9	X	43.41989	79.55526	99.71035	11.34789	0.0266753	0.18754598	3.0227174	21	4 25.5	20.2
426871 2013 WQ_{21}	16.2	X	7.23096	118.41800	159.91848	7.85100	0.0636215	0.21214168	2.7843173	21	7 9.4	19.7
426872 2013 WK_{27}	15.5	X	194.51923	70.72791	273.84721	17.04326	0.1828156	0.18212779	3.0823734	21	2 19.2	21.0
426873 2013 WH_{28}	16.5	X	179.66644	257.54252	244.83373	11.15267	0.0772413	0.21931545	2.7232650	21	8 19.6	20.8
426874 2013 WS_{29}	17.0	X	232.58000	25.00610	69.06156	6.45582	0.0439733	0.22239889	2.6980353	21	8 30.9	20.8
426875 2013 WJ_{34}	17.2	X	242.94178	220.96024	239.49560	2.40066	0.0473398	0.22942249	2.6426849	21	9 17.2	20.7
426876 2013 WS_{35}	16.4	X	57.97870	358.25555	302.96391	8.17553	0.1670447	0.24742091	2.5129188	21	11 10.1	20.0
426877 2013 WB_{37}	16.0	X	214.16087	79.34616	280.13084	10.00094	0.0660490	0.18278409	3.0749906	21	3 30.5	20.8
426878 2013 WR_{37}	15.7	X	120.31000	158.10169	304.14925	11.07124	0.1304782	0.17788456	3.1311981	21	5 1.4	20.6
426879 2013 WP_{39}	15.6	X	104.19383	119.10755	282.01770	7.14481	0.1339139	0.15950392	3.3673516	21	2 4.1	20.5
426880 2013 WG_{42}	17.0	X	171.22550	230.18757	243.57632	1.04501	0.0479214	0.21048857	2.7988763	21	7 8.6	21.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
426881 2013 WW_{46}	15.5	X	354.51196	132.90273	66.58462	17.66685	0.0516647	0.17826837	3.1267023	21	3 21.7	20.0
426882 2013 WR_{47}	16.2	X	271.89857	190.23507	171.01607	4.08992	0.1102855	0.21494321	2.7600709	21	6 5.7	20.0
426883 2013 WL_{48}	16.9	X	122.94677	323.19018	334.08508	8.82060	0.2494645	0.27045746	2.3681184	21	—	—
426884 2013 WT_{49}	16.0	X	93.76460	168.08167	325.04425	8.86951	0.0459847	0.18790239	3.0188939	21	4 26.1	20.3
426885 2013 WD_{50}	16.2	X	91.46999	246.61038	28.58373	15.30992	0.1167404	0.24292157	2.5438529	21	11 8.1	20.0
426886 2013 WZ_{50}	16.3	X	136.79334	84.66027	335.43854	9.09637	0.0363378	0.17799180	3.1299402	21	3 20.2	20.8
426887 2013 WA_{51}	15.8	X	87.68921	104.24731	8.05404	10.51158	0.0598193	0.17688603	3.1429709	21	3 30.1	20.0
426888 2013 WZ_{52}	15.7	X	243.19306	38.88760	306.01915	7.54769	0.0495610	0.19038841	2.9925567	21	4 15.8	20.3
426889 2013 WG_{53}	16.0	X	151.79733	46.22419	325.16330	7.21887	0.1025219	0.16886140	3.2417720	21	2 16.9	20.8
426890 2013 WS_{56}	16.2	X	307.49401	256.18169	71.58021	14.19626	0.1596814	0.21180582	2.7872598	21	6 1.5	19.7
426891 2013 WX_{56}	15.7	X	19.56211	95.29329	73.38149	9.08712	0.0038324	0.17307862	3.1888966	21	3 13.2	20.3
426892 2013 WL_{57}	16.3	X	307.04588	259.28827	93.67893	7.24725	0.1627274	0.22179706	2.7029138	21	7 5.6	19.3
426893 2013 WX_{57}	16.5	X	230.56797	355.93500	60.54776	6.80020	0.0449274	0.21121392	2.7924647	21	7 5.8	20.4
426894 2013 WR_{58}	16.9	X	284.90765	288.82308	90.87507	7.21755	0.0607298	0.21735569	2.7396098	21	7 26.3	20.4
426895 2013 WT_{58}	16.6	X	239.40905	256.17710	225.92751	6.64467	0.1065071	0.23303363	2.6153129	21	10 2.5	20.4
426896 2013 WU_{58}	16.8	X	342.02225	234.75506	115.62007	3.46561	0.1048233	0.22992604	2.6388251	21	9 11.6	19.7
426897 2013 WT_{59}	16.5	X	174.50401	52.55415	90.43516	9.80826	0.0750117	0.21970727	2.7200263	21	8 23.6	20.7
426898 2013 WC_{62}	15.7	X	4.56653	317.55956	249.41766	14.74359	0.0156770	0.18435571	3.0574896	21	3 29.5	20.2
426899 2013 WJ_{62}	15.9	X	170.76363	255.18464	97.21446	16.52390	0.2266226	0.17286716	3.1914965	21	2 24.5	21.5
426900 2013 WZ_{66}	16.3	X	339.75605	44.84906	288.02981	5.39347	0.1034310	0.22554246	2.6729070	21	8 9.5	19.3
426901 2013 WV_{69}	16.1	X	73.85350	98.96390	51.59180	6.43396	0.0222286	0.18731151	3.0252393	21	4 24.3	20.3
426902 2013 WX_{70}	15.9	X	242.59219	285.14411	54.08094	5.02892	0.0875733	0.18984508	2.9982637	21	4 9.9	20.3
426903 2013 WZ_{72}	17.0	X	16.55801	328.58515	353.78870	3.40558	0.2480453	0.23967457	2.5667766	21	10 21.8	19.5
426904 2013 WH_{74}	16.7	X	131.21899	289.88058	115.09950	4.45990	0.1246031	0.17089548	3.2159972	21	3 10.9	21.5
426905 2013 WM_{74}	16.0	X	171.37723	293.87420	83.28574	11.03372	0.0351704	0.17468703	3.1692921	21	3 16.5	20.8
426906 2013 WK_{75}	16.5	X	0.50445	232.65159	0.03242	0.91051	0.0086966	0.19001927	2.9964311	21	4 30.8	20.6
426907 2013 WZ_{75}	16.9	X	184.07870	232.74244	147.62379	1.42219	0.1995128	0.18489375	3.0515551	21	4 1.4	22.0
426908 2013 WZ_{76}	15.6	X	116.97623	243.50426	234.25870	9.89964	0.0665653	0.18964691	3.0003520	21	5 12.4	19.9
426909 2013 WM_{78}	17.1	X	272.22739	231.94971	32.40010	7.22344	0.0748301	0.30004538	2.2097582	21	1 24.4	20.1
426910 2013 WY_{80}	16.8	X	137.29964	110.82739	300.62947	1.09108	0.0849256	0.17571676	3.1568983	21	3 18.0	21.3
426911 2013 WA_{81}	17.2	X	243.94054	341.81658	261.94945	4.78343	0.1313701	0.28260047	2.2997862	21	—	—
426912 2013 WA_{83}	16.1	X	259.58137	98.62528	229.70980	7.87155	0.0999498	0.19182225	2.9776254	21	4 10.6	20.5
426913 2013 WM_{84}	16.3	X	263.54001	254.57420	106.29938	6.78961	0.0806639	0.20181591	2.8784970	21	5 30.9	20.4
426914 2013 WK_{85}	15.4	X	223.62800	247.16272	83.54358	14.27613	0.0600702	0.17520176	3.1630817	21	3 19.8	20.4
426915 2013 WO_{86}	16.1	X	184.29237	293.21096	105.53571	11.58478	0.1324523	0.19170771	2.9788113	21	4 26.3	21.0
426916 2013 WT_{91}	16.8	X	345.18731	250.44339	35.72606	2.47133	0.0242018	0.20350934	2.8625065	21	6 18.3	20.5
426917 2013 WH_{94}	16.1	X	225.84257	35.65727	288.31630	3.98817	0.1299696	0.17922041	3.1156194	21	3 1.5	21.1
426918 2013 WF_{97}	17.8	X	278.45867	299.99326	12.56947	1.34449	0.1901664	0.32501439	2.0950818	21	3 19.6	20.4
426919 2013 WH_{97}	16.2	X	163.73739	129.80747	256.56736	15.50433	0.2537446	0.17942942	3.1131995	21	3 18.8	21.8
426920 2013 WZ_{98}	16.7	X	173.83726	55.20149	61.33346	5.21709	0.0212589	0.21007039	2.8025895	21	7 16.0	20.6
426921 2013 WP_{99}	16.3	X	131.01085	38.06616	18.94099	9.49447	0.1042482	0.17560949	3.1581837	21	3 22.3	21.0
426922 2013 WY_{102}	16.4	X	203.84757	306.78875	182.42312	11.10933	0.1474988	0.21665729	2.7454941	21	8 28.2	20.8
426923 2013 WL_{107}	16.3	X	29.40699	63.74945	250.48785	13.52854	0.0650877	0.23546138	2.5973048	21	9 28.5	19.9
426924 2013 WM_{107}	16.6	X	287.57901	161.77803	269.34397	8.40507	0.0682803	0.23409340	2.6074137	21	10 3.4	20.0
426925 2013 WG_{109}	15.8	X	117.88167	180.44371	250.78849	11.48003	0.1829530	0.17287414	3.1914107	21	3 28.4	20.8
426926 2013 XG_{1}	16.3	X	14.64135	243.98819	114.52535	9.31233	0.1883531	0.24449152	2.5329514	21	12 3.1	19.1
426927 2013 XR_{1}	15.6	X	201.22965	204.98258	142.55709	13.68711	0.0597912	0.18397751	3.0616784	21	3 9.7	20.2
426928 2013 XB_{9}	16.5	X	270.56238	5.91470	20.73087	17.41195	0.2413182	0.21883527	2.7272472	21	6 16.7	20.9
426929 2013 XF_{9}	16.3	X	200.90766	232.73129	135.29390	3.07646	0.1191591	0.18493858	3.0510620	21	4 1.6	21.1
426930 2013 XT_{10}	16.7	X	319.18069	84.66408	271.79606	5.22142	0.0418824	0.22211740	2.7003143	21	8 12.9	20.3
426931 2013 XE_{11}	15.3	X	223.37803	257.74304	81.34499	12.24677	0.0054613	0.17739025	3.1370122	21	3 31.5	19.9
426932 2013 XL_{11}	16.0	X	181.62431	326.71290	81.12232	12.71106	0.1689417	0.18306495	3.0718446	21	5 4.7	21.2
426933 2013 XF_{12}	16.9	X	222.89363	31.39797	64.40439	5.53654	0.1240824	0.21610591	2.7501620	21	8 11.1	21.1
426934 2013 XW_{13}	15.9	X	254.71535	56.90830	262.73821	9.82933	0.1067272	0.18417203	3.0595221	21	3 22.5	20.7
426935 2013 XH_{15}	16.5	X	335.77697	259.46196	75.83220	12.34863	0.2169096	0.22399227	2.6852251	21	8 1.1	19.1
426936 2013 XS_{18}	16.6	X	349.12959	120.00929	282.52603	8.10561	0.0402559	0.24499232	2.5294984	21	12 2.6	19.7
426937 2013 XT_{24}	16.2	X	249.88406	85.38071	63.26931	16.01056	0.0460777	0.24346526	2.5400643	21	12 1.6	19.6
426938 2013 YL	15.3	X	109.73181	148.93335	330.99051	29.20594	0.1734568	0.17359462	3.1825742	21	5 9.6	20.7
426939 2013 YW_{3}	15.6	X	35.58381	314.91009	254.64860	10.87022	0.0806120	0.19060464	2.9902930	21	5 22.3	19.4
426940 2013 YG_{5}	15.7	X	189.52584	236.92484	97.08297	19.42493	0.1101208	0.17743006	3.1365431	21	2 13.3	20.8
426941 2013 YA_{6}	16.4	X	74.12919	153.93559	100.14678	4.69882	0.0512386	0.20814612	2.8198359	21	9 13.4	20.2
426942 2013 YF_{8}	15.7	X	84.88571	255.09695	252.58157	13.00020	0.1659358	0.18047622	3.1011496	21	5 25.5	20.1
426943 2013 YS_{16}	15.5	X	81.87669	55.91868	122.38204	12.65798	0.0700845	0.18120089	3.0928759	21	6 17.1	19.9
426944 2013 YA_{18}	15.9	X	140.21045	342.56839	135.63083	10.16193	0.0780555	0.18155389	3.0888655	21	6 12.1	20.6
426945 2013 YJ_{19}	16.8	X	44.07013	264.38958	52.34214	6.38728	0.1225654	0.23827834	2.5767939	21	11 7.5	20.0
426946 2013 YN_{20}	16.1	X	312.81108	76.76451	309.06396	11.84105	0.1468154	0.22171097	2.7036135	21	8 30.5	19.3
426947 2013 YB_{22}	16.4	X	348.85165	258.30641	60.96318	14.64432	0.1006342	0.22279878	2.6948060	21	8 13.7	19.8
426948 2013 YG_{22}	16.2	X	169.38638	116.93579	248.16371	8.07946	0.0832436	0.17404934	3.1770286	21	2 21.7	21.2
426949 2013 YY_{23}	16.2	X	127.47404	32.27682	66.76343	6.43272	0.0986347	0.18552616	3.0446166	21	5 6.5	20.6
426950 2013 YR_{24}	17.0	X	159.66494	276.09385	259.24192	2.95807	0.0775507	0.22170707	2.7036451	21	9 12.7	21.2
426951 2013 YD_{25}	15.8	X	207.31755	249.45197	72.12932	5.58033	0.1175214	0.17053895	3.2204779	21	2 14.9	21.0
426952 2013 YT_{25}	16.2	X	22.02959	306.03657	258.50674	4.36785	0.1264568	0.18296073	3.0730111	21	4 25.8	19.9
426953 2013 YF_{26}	15.9	X	174.45544	338.10931	84.53966	2.98613	0.0596858	0.18098621	3.0953213	21	5 9.9	20.4
426954 2013 YH_{26}	15.8	X	187.56436	300.02163	98.69073	11.87070	0.0871620	0.17856839	3.1231990	21	4 29.6	20.8
426955 2013 YL_{26}	15.9	X	62.93858	96.17839	88.80218	6.73041	0.0896777	0.17935017	3.1141164	21	6 2.2	20.0
426956 2013 YC_{27}	16.6	X	277.74270	355.80147	95.51984	6.72081	0.0716935	0.22776966	2.6554541	21	10 22.8	20.1
426957 2013 YB_{28}	16.2	X	242.75056	302.61003	110.71178	7.73470	0.0538888	0.20090472	2.8871939	21	7 15.3	20.1
426958 2013 YB_{37}	16.1	X	305.13774	39.28779	215.65775	15.47856	0.0311160	0.17237528	3.1975651	21	3 14.8	20.8
426959 2013 YB_{45}	15.5	X	299.07663	230.44933	114.29901	10.52143	0.0177751	0.19695800	2.9256360	21	7 3.8	19.6
426960 2013 YL_{52}	16.9	X	186.13409	139.77565	34.11665	4.40989	0.1297181	0.22823773	2.6518223	21	10 10.0	21.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
426961 2013 YJ_{56}	16.2	X	170.86832	77.88842	321.10269	8.52983	0.0810962	0.17436406	3.1732046	21	4 3.9	21.2
426962 2013 YL_{57}	16.0	X	104.31028	200.73843	344.20218	5.75216	0.0999242	0.19531862	2.9419838	21	7 28.4	20.2
426963 2013 YY_{59}	16.6	X	279.86042	15.89103	318.68848	7.84173	0.0637980	0.18739417	3.0243497	21	5 17.2	20.9
426964 2013 YD_{60}	16.2	X	65.58393	184.57890	351.38552	4.72168	0.0794272	0.17742449	3.1366087	21	5 21.9	20.5
426965 2013 YS_{70}	16.3	X	221.93848	278.88239	69.27634	8.48345	0.0641794	0.18084512	3.0969309	21	4 3.7	21.0
426966 2013 YV_{71}	16.8	X	64.18239	257.42824	41.21263	5.55490	0.2160738	0.24124566	2.5556206	21	11 21.4	20.6
426967 2013 YB_{82}	16.6	X	338.96768	184.05533	111.36349	7.46733	0.0286148	0.19057791	2.9905726	21	6 22.2	20.6
426968 2013 YW_{103}	17.2	X	47.71903	282.90517	92.84032	3.34106	0.2287144	0.26622346	2.3931605	21	—	—
426969 2013 YM_{112}	15.4	X	353.03752	162.91104	81.46841	12.03140	0.0574877	0.17588082	3.1549348	21	5 8.6	19.6
426970 2013 YL_{114}	16.4	X	351.80800	193.56411	101.55196	3.07948	0.0696256	0.19142209	2.9817737	21	7 8.8	20.1
426971 2013 YA_{119}	16.1	X	134.80695	306.19918	133.24497	5.89923	0.1988893	0.17399167	3.1777306	21	5 1.9	21.2
426972 2013 YO_{124}	16.1	X	63.63486	91.56508	103.95590	9.05857	0.1193732	0.17424010	3.1747093	21	6 21.2	20.3
426973 2013 YP_{125}	16.6	X	114.35749	47.14754	78.08256	2.88700	0.0649650	0.17209590	3.2010247	21	5 19.9	21.1
426974 2013 YH_{133}	15.9	X	315.20280	348.22288	334.75976	11.32553	0.0528193	0.19527366	2.9424354	21	6 23.4	20.0
426975 2013 YF_{138}	16.3	X	306.78525	258.03158	54.81811	11.15833	0.1054216	0.19045126	2.9918982	21	5 20.5	20.2
426976 2013 YK_{141}	15.8	X	171.38064	303.01060	85.21333	11.70557	0.0627503	0.17510297	3.1642712	21	3 31.8	20.7
426977 2013 YX_{143}	16.6	X	55.85484	103.77846	67.53054	2.15629	0.1274660	0.17816725	3.1278851	21	5 9.8	20.4
426978 2014 AO_{7}	16.4	X	276.07718	34.57203	309.71713	8.63805	0.0298315	0.18518381	3.0483678	21	5 31.2	20.8
426979 2014 AU_{11}	16.1	X	318.78894	222.34140	167.28138	7.78370	0.0567970	0.22062813	2.7124524	21	9 28.8	19.4
426980 2014 AH_{37}	16.1	X	244.35182	208.45676	127.75517	10.87476	0.2513604	0.18108443	3.0942018	21	3 30.3	21.5
426981 2014 AO_{37}	15.2	X	174.20144	263.96314	98.07441	17.34797	0.1072010	0.16846170	3.2468976	21	3 7.0	20.5
426982 2014 AX_{48}	15.7	X	25.09624	82.70290	150.01702	9.86414	0.1007572	0.17678957	3.1441141	21	6 9.9	19.8
426983 2014 AU_{54}	16.4	X	140.64642	167.16697	358.86826	1.95972	0.1160824	0.19756715	2.9196193	21	8 14.0	20.8
426984 2014 BB_{11}	16.4	X	74.39351	94.68747	119.34049	2.65785	0.0197128	0.18989586	2.9977291	21	7 15.0	20.3
426985 2014 BO_{16}	15.6	X	133.30517	299.80600	84.19594	6.71487	0.0462150	0.14893229	3.5248729	21	2 11.3	20.7
426986 2014 BV_{17}	16.1	X	254.41366	252.72302	152.71849	9.88511	0.0672270	0.19511401	2.9440403	21	7 16.8	20.3
426987 2014 BE_{22}	15.5	X	313.13473	156.10740	149.29880	9.90486	0.0570413	0.17533944	3.1614256	21	5 29.9	19.9
426988 2014 BA_{44}	16.1	X	29.36011	133.63516	133.58090	9.59904	0.0448965	0.19129822	2.9830608	21	7 26.5	19.9
426989 2014 BL_{55}	16.6	X	311.92138	241.17696	127.25853	6.80632	0.0559357	0.20883173	2.8136607	21	8 19.3	20.1
426990 2014 DS_{7}	15.9	X	304.12077	228.66033	117.21921	10.93192	0.0695933	0.19170378	2.9788520	21	7 5.2	19.7
426991 2014 DT_{29}	15.9	X	354.84794	136.97556	147.96114	11.68519	0.0566800	0.18395331	3.0619468	21	6 30.0	20.0
426992 2014 DQ_{67}	13.9	X	256.67539	40.69680	103.61798	8.63302	0.0328539	0.08207622	5.2439414	21	11 12.7	20.9
426993 2014 DX_{123}	13.9	X	269.36473	318.30111	167.48424	19.56403	0.0597108	0.08428511	5.1519163	21	11 4.5	20.9
426994 2014 HS_{131}	15.7	X	57.00559	246.00040	338.92304	9.65111	0.0665906	0.18154784	3.0889342	21	7 14.6	20.0
426995 2014 OO_{298}	17.8	X	252.68006	248.57847	163.51924	2.59344	0.1869900	0.25941514	2.4348517	21	7 8.9	21.2
426996 2014 PB_{68}	16.7	X	196.53171	302.57511	87.24204	12.56356	0.3154103	0.22452071	2.6810101	21	4 24.8	21.9
426997 2014 QD_{30}	16.8	X	125.50580	121.03548	233.13639	4.95373	0.1948414	0.19704314	2.9247932	21	1 5.8	21.2
426998 2014 QA_{167}	16.0	X	119.51807	262.06412	108.12969	11.03582	0.1282587	0.19086885	2.9875328	21	1 11.4	20.2
426999 2014 QR_{330}	16.6	X	177.16435	261.58948	111.36163	7.32775	0.0912023	0.21636550	2.7479619	21	3 12.9	20.8
427000 2014 QN_{368}	16.9	X	239.11178	278.04768	85.98143	10.02561	0.1554461	0.23702991	2.5858338	21	4 30.3	21.0
427001 2014 QA_{387}	15.7	X	102.63884	265.90974	129.10080	9.59669	0.1442293	0.18907897	3.0063571	21	1 23.2	19.8
427002 2014 QA_{409}	16.8	X	337.40625	74.98741	203.52903	5.32119	0.1372474	0.24165042	2.5527660	21	5 14.5	19.5
427003 2014 QF_{409}	16.1	X	115.91247	134.35571	200.39110	11.91477	0.2504845	0.17799248	3.1299323	21	—	—
427004 2014 QM_{432}	17.2	X	241.00183	206.31053	172.84498	4.28373	0.1148698	0.23963889	2.5670314	21	5 22.4	21.0
427005 2014 QP_{438}	17.8	X	291.47940	342.04181	118.25727	4.28625	0.1841675	0.28084820	2.3093422	21	11 21.5	19.8
427006 2014 RV_{6}	16.9	X	204.62557	223.16164	181.19982	3.63401	0.2434841	0.23456519	2.6039162	21	5 13.7	21.5
427007 2014 RP_{18}	16.5	X	267.01414	232.80352	86.43607	28.43419	0.3141412	0.23270724	2.6177577	21	3 31.3	21.6
427008 2014 SJ_{165}	17.6	X	289.29734	238.74886	124.11606	2.31249	0.1937643	0.26113374	2.4241569	21	6 16.3	20.4
427009 2014 SZ_{206}	17.0	X	222.73817	240.45835	176.80076	4.02309	0.1559170	0.24106414	2.5569034	21	6 17.6	20.9
427010 2014 SH_{207}	17.3	X	263.69957	241.43639	97.26967	4.19523	0.2393074	0.23685641	2.5870965	21	4 13.1	21.4
427011 2014 SN_{207}	17.5	X	307.75491	304.69640	73.56457	7.19809	0.1556998	0.26432192	2.4046245	21	8 20.4	20.0
427012 2014 SN_{208}	15.9	X	139.80354	147.63272	192.56879	14.04601	0.1226850	0.18101870	3.0949509	21	—	—
427013 2014 SR_{209}	15.8	X	26.71619	349.26452	135.84199	10.08805	0.0950219	0.18404287	3.0609534	21	1 20.3	19.6
427014 2014 SG_{210}	17.3	X	181.96753	336.16265	87.92092	9.20114	0.1678759	0.22569550	2.6716985	21	5 20.5	21.7
427015 2014 SY_{212}	16.1	X	81.81287	295.45932	131.49030	10.22299	0.1647148	0.18428619	3.0582585	21	2 8.1	19.9
427016 2014 SO_{214}	16.7	X	249.24072	223.40972	119.27513	5.13443	0.1128415	0.22518060	2.6757697	21	4 16.9	20.7
427017 2014 SB_{215}	17.0	X	222.86727	236.75710	142.38923	4.84780	0.1339280	0.22712068	2.6605102	21	5 3.4	21.2
427018 2014 SR_{215}	15.7	X	145.58994	255.21347	79.13616	11.28315	0.2285740	0.18304601	3.0720565	21	1 9.4	20.6
427019 2014 SM_{216}	16.0	X	313.99549	130.75127	197.26484	14.67865	0.1532246	0.24559117	2.5253847	21	6 12.1	19.2
427020 2014 ST_{218}	16.2	X	107.85185	279.30589	114.45253	10.36661	0.1720539	0.18590484	3.0404807	21	2 2.7	20.5
427021 2014 SA_{219}	17.0	X	340.89887	269.19950	75.49537	13.14327	0.2438507	0.26850196	2.3796025	21	9 12.4	18.8
427022 2014 SF_{219}	17.2	X	289.33275	306.43634	92.60368	6.92613	0.1286168	0.25970208	2.4330578	21	8 22.5	20.0
427023 2014 SP_{219}	16.7	X	102.69622	275.78639	68.58509	25.75610	0.3654289	0.17439151	3.1728715	21	—	—
427024 2014 SZ_{229}	16.9	X	220.20696	308.80477	52.14780	4.78976	0.1168110	0.22945944	2.6424012	21	4 8.1	20.9
427025 2014 SN_{258}	16.4	X	98.87166	338.21257	88.90593	3.58036	0.0125148	0.20543726	2.8445696	21	2 6.5	20.2
427026 2014 SJ_{265}	17.2	X	191.16657	249.04694	122.86696	2.82186	0.2239679	0.22300472	2.6931467	21	3 26.3	21.9
427027 2014 SW_{285}	16.2	X	76.58237	190.31893	203.16643	12.46988	0.1557015	0.18025558	3.1036797	21	—	—
427028 2014 SZ_{306}	16.2	X	147.78632	103.55068	219.75068	8.18070	0.0843824	0.17928899	3.1148249	21	—	—
427029 2014 SS_{308}	18.1	X	285.35804	190.68039	222.23370	1.75656	0.1809389	0.26630208	2.3926895	21	8 24.3	20.5
427030 2014 SL_{309}	16.2	X	107.77688	125.43136	217.67674	16.51020	0.1152861	0.17093715	3.2154746	21	—	—
427031 2014 SV_{309}	16.5	X	173.71200	251.25251	212.79253	15.51948	0.0861001	0.24007396	2.5639291	21	6 27.5	20.6
427032 2014 SN_{312}	15.7	X	107.67503	149.43597	190.70907	9.24205	0.1048046	0.17722885	3.1389166	21	—	—
427033 2014 SV_{323}	15.5	X	87.12728	182.02988	335.65507	13.07864	0.3053163	0.19976226	2.8981916	21	7 1.1	20.0
427034 2014 SS_{325}	16.2	X	128.32768	105.24902	214.29421	25.41739	0.1835333	0.17664140	3.1458720	21	—	—
427035 2014 SC_{328}	16.7	X	169.43837	206.66065	179.46506	8.85763	0.1698327	0.21453809	2.7635443	21	3 23.0	21.2
427036 2014 SM_{336}	17.6	X	215.24871	275.10536	109.35446	2.27138	0.2050571	0.23443684	2.6048665	21	4 28.8	21.9
427037 2014 TG_{5}	17.5	X	310.02886	321.83437	33.66458	1.84127	0.1924350	0.26387802	2.4073204	21	7 10.2	19.8
427038 2014 TH_{5}	17.1	X	214.16734	149.21009	199.52140	4.38465	0.1236748	0.22063285	2.7124137	21	3 16.4	21.5
427039 2014 TH_{6}	16.8	X	178.07923	322.74534	52.61770	5.32737	0.0824591	0.21319738	2.7751181	21	3 16.3	21.0
427040 2014 TZ_{29}	17.6	X	26.51447	284.01454	80.04107	5.33654	0.1715169	0.29676155	2.2260297	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
427041 2014 TH_{30}	17.9	X	15.89507	181.91937	186.17967	4.46361	0.2056655	0.29305822	2.2447438	21	12 31.6	20.4
427042 2014 TN_{31}	15.5	X	27.58163	63.87429	107.49269	10.34851	0.0122615	0.18734289	3.0249015	21	3 24.8	19.8
427043 2014 TE_{37}	17.0	X	250.63380	276.95336	73.01463	5.12418	0.1849930	0.23404110	2.6078021	21	4 19.7	21.0
427044 2014 TK_{44}	17.4	X	244.54397	148.59166	188.46689	2.31359	0.1088940	0.22698819	2.6615454	21	4 2.5	21.4
427045 2014 TX_{55}	16.1	X	49.21293	248.09490	204.55403	10.60426	0.1250456	0.18449052	3.0559999	21	1 13.5	20.0
427046 2014 TG_{56}	17.0	X	224.72358	187.24681	168.02679	4.34426	0.1098662	0.22052919	2.7132636	21	4 6.1	21.0
427047 2014 TP_{56}	16.5	X	209.47911	255.41322	105.62928	6.05557	0.0894338	0.21932268	2.7232051	21	3 31.5	20.6
427048 2014 TC_{58}	15.9	X	100.00653	244.67943	130.31280	11.95087	0.2587040	0.18526618	3.0474642	21	1 12.8	20.0
427049 2014 TB_{59}	16.4	X	221.88094	321.34816	21.65403	13.13523	0.1156094	0.21923382	2.7239409	21	3 21.5	20.6
427050 2014 TV_{65}	17.0	X	152.54567	182.92965	286.78104	2.01975	0.0716220	0.23615257	2.5922344	21	6 11.9	20.7
427051 2014 TF_{67}	17.5	X	221.16047	154.43974	223.15437	5.14846	0.2623600	0.23250656	2.6192638	21	4 22.1	22.1
427052 2014 TE_{69}	17.2	X	189.94957	313.42220	62.38337	7.12672	0.0598771	0.21474542	2.7617653	21	3 29.6	21.3
427053 2014 TM_{69}	17.1	X	127.29963	359.98343	74.76521	5.37060	0.0863430	0.20934527	2.8090574	21	4 3.8	21.1
427054 2014 TT_{70}	16.7	X	178.21812	299.19416	77.96481	5.41040	0.0800708	0.21080314	2.7960912	21	3 19.2	20.9
427055 2014 TQ_{72}	16.8	X	169.01986	193.84933	200.77780	6.13767	0.0491672	0.21317244	2.7753346	21	3 24.8	20.9
427056 2014 TW_{73}	17.6	X	46.79844	251.94104	83.64549	5.49616	0.1771065	0.29363587	2.2417988	21	12 24.0	20.3
427057 2014 TN_{82}	16.4	X	181.98495	291.21552	60.27844	13.86289	0.2177793	0.21085003	2.7956767	21	3 1.9	21.4
427058 2014 TX_{83}	16.4	X	278.60039	265.16254	46.99904	14.11770	0.1758003	0.23248639	2.6194153	21	4 5.4	20.4
427059 2014 TD_{84}	16.5	X	14.99062	79.13669	249.96456	22.77371	0.2255357	0.27614359	2.3354975	21	10 31.2	19.1
427060 2014 TE_{84}	18.1	X	229.04945	14.39383	99.29939	3.82559	0.1253178	0.26208184	2.4183070	21	9 13.0	21.4
427061 2014 UD	16.0	X	8.83435	318.30599	114.49153	5.31490	0.0719032	0.16804894	3.2522121	21	—	—
427062 2014 UD_{4}	17.2	X	211.73628	295.75341	109.43413	4.66275	0.0448326	0.23206250	2.6226041	21	5 28.3	20.8
427063 2014 UK_{7}	15.8	X	49.86905	192.76043	265.89337	11.93734	0.0370302	0.18756428	3.0225207	21	1 16.5	19.9
427064 2014 UL_{9}	16.7	X	275.34437	108.21150	230.75175	13.75643	0.1010846	0.23635330	2.5907665	21	5 10.8	20.2
427065 2014 UF_{10}	17.0	X	222.89148	241.95600	94.65212	5.47630	0.0696662	0.21152498	2.7897264	21	3 16.6	21.2
427066 2014 UW_{14}	16.9	X	248.08237	63.95310	261.91276	3.01086	0.1908606	0.22668243	2.6639381	21	3 15.5	21.3
427067 2014 UF_{15}	17.0	X	177.90997	128.08335	301.83116	1.90708	0.0869517	0.22967538	2.6407447	21	5 19.9	20.9
427068 2014 UK_{15}	16.1	X	100.48664	316.14951	97.61468	9.45597	0.0966207	0.19249643	2.9706690	21	2 7.0	20.1
427069 2014 UU_{18}	16.5	X	18.87574	314.37606	162.51603	3.25684	0.0718200	0.18112710	3.0937158	21	—	—
427070 2014 UM_{19}	17.0	X	263.75476	137.75424	177.50724	4.78181	0.0993382	0.22342975	2.6897302	21	3 28.7	20.7
427071 2014 UX_{20}	18.1	X	40.33906	167.29487	193.90317	7.89257	0.0438332	0.29314501	2.2443007	21	12 29.9	21.0
427072 2014 UF_{22}	15.8	X	162.55862	230.25280	84.54312	10.74849	0.0889381	0.17678724	3.1441416	21	—	—
427073 2014 UM_{22}	16.8	X	235.37983	251.77651	149.69129	5.22041	0.0951428	0.23905339	2.5712212	21	6 15.9	20.5
427074 2014 UV_{22}	17.3	X	335.98282	267.34607	90.59494	5.72892	0.1839546	0.26851022	2.3795537	21	9 17.3	19.1
427075 2014 UR_{23}	16.8	X	179.88651	263.91489	133.61518	5.31600	0.1008630	0.21936276	2.7228734	21	4 14.7	21.0
427076 2014 UJ_{24}	16.0	X	57.79337	217.63072	193.01756	12.47238	0.0874715	0.17239435	3.1973293	21	—	—
427077 2014 UQ_{24}	15.7	X	18.88410	286.26498	151.23974	7.50883	0.1580730	0.16968427	3.2312830	21	—	—
427078 2014 UE_{25}	16.0	X	189.47116	307.82261	69.77846	11.06545	0.1652497	0.21412447	2.7671021	21	4 4.6	20.7
427079 2014 UO_{30}	16.8	X	258.43080	222.13103	95.55186	5.26051	0.0392506	0.21588432	2.7520436	21	4 4.7	20.7
427080 2014 UX_{32}	16.6	X	128.97989	250.74473	129.54424	0.96873	0.1590908	0.19188436	2.9769829	21	2 6.8	20.9
427081 2014 UO_{40}	16.6	X	123.56925	275.78706	104.81128	2.72341	0.0879700	0.19157391	2.9801982	21	1 23.2	20.8
427082 2014 UJ_{41}	16.9	X	121.94576	250.02989	240.66068	11.68756	0.0800229	0.22472359	2.6793962	21	6 4.5	20.7
427083 2014 UG_{42}	16.1	X	84.51785	284.39582	232.11763	12.71755	0.1132161	0.21783004	2.7356312	21	5 27.0	19.6
427084 2014 UE_{43}	16.7	X	208.94913	97.14114	281.25368	4.44735	0.0367714	0.22533685	2.6745326	21	4 17.3	20.5
427085 2014 UN_{43}	16.6	X	274.35022	6.09725	274.15482	4.24971	0.0693582	0.21512558	2.7585107	21	2 27.1	20.5
427086 2014 UA_{44}	16.6	X	161.46791	16.87857	24.84025	10.18177	0.1720885	0.21362845	2.7713837	21	4 4.9	21.1
427087 2014 UJ_{44}	15.7	X	301.65773	288.21461	242.88446	8.47689	0.0570628	0.17497040	3.1658694	21	—	—
427088 2014 UL_{45}	16.9	X	275.19056	78.39546	227.94068	6.31922	0.1947738	0.22888382	2.6468296	21	3 15.8	21.1
427089 2014 UR_{45}	17.4	X	279.91237	107.57546	222.62742	1.41856	0.1765605	0.23925863	2.5697506	21	4 23.9	21.1
427090 2014 US_{45}	16.5	X	77.21461	333.21110	61.90373	1.60413	0.1663170	0.17647715	3.1478237	21	—	—
427091 2014 UL_{46}	16.2	X	39.18799	268.55187	199.89773	1.39319	0.1420086	0.18235174	3.0798491	21	1 20.3	19.7
427092 2014 UM_{46}	16.3	X	258.86518	97.78961	213.00830	4.30843	0.0210029	0.21432633	2.7653643	21	3 25.9	20.2
427093 2014 UN_{46}	17.9	X	293.01941	233.77634	202.17057	1.81388	0.1722501	0.27592896	2.3367085	21	10 16.4	19.8
427094 2014 UY_{46}	16.0	X	104.09033	186.23322	188.28643	1.79301	0.0663279	0.17892498	3.1190480	21	—	—
427095 2014 UM_{53}	15.9	X	40.56667	20.71093	54.07402	18.27186	0.1078013	0.17602322	3.1532331	21	—	—
427096 2014 UQ_{53}	16.4	X	97.65448	226.01933	172.66536	4.80919	0.1366031	0.18667489	3.0321134	21	1 20.0	20.5
427097 2014 UU_{53}	17.5	X	286.55227	265.02935	170.56346	2.76995	0.2026942	0.27467712	2.3438028	21	9 28.3	19.7
427098 2014 UW_{53}	17.9	X	308.40973	44.85643	334.18716	1.62423	0.2201636	0.26736650	2.3863349	21	8 8.8	19.9
427099 2014 UD_{56}	17.0	X	77.96053	245.29115	180.23201	4.54779	0.1820193	0.18292484	3.0734131	21	2 1.9	20.9
427100 2014 UF_{62}	17.1	X	175.21467	295.33014	85.57934	5.42962	0.0810455	0.20937685	2.8087749	21	3 20.8	21.3
427101 2014 UK_{62}	16.8	X	113.93161	262.84018	218.69240	4.39900	0.1168363	0.21662978	2.7457265	21	5 19.1	20.6
427102 2014 UF_{64}	16.9	X	307.75798	80.79849	216.95031	14.12298	0.1327537	0.23273496	2.6175499	21	4 23.8	20.3
427103 2014 UA_{67}	17.0	X	152.57114	185.39137	230.34737	13.15528	0.1238073	0.20984911	2.8045593	21	4 6.4	21.4
427104 2014 UO_{67}	16.7	X	181.16337	294.05574	100.05902	5.05760	0.1188075	0.22373335	2.6872964	21	4 12.1	20.9
427105 2014 UT_{67}	16.9	X	225.69823	211.39244	121.64734	1.51369	0.0751805	0.21372677	2.7705337	21	3 12.6	21.0
427106 2014 UW_{67}	16.8	X	217.28815	114.00748	207.79499	6.64855	0.1804992	0.21012952	2.8020637	21	2 14.1	21.7
427107 2014 UB_{80}	16.3	X	160.35907	133.19964	211.29603	1.27127	0.0587554	0.19532178	2.9419521	21	1 16.9	20.4
427108 2014 UC_{83}	17.8	X	222.62184	94.84419	46.99957	8.39731	0.0738122	0.27127357	2.3633664	21	10 20.8	20.9
427109 2014 UU_{84}	16.6	X	155.74831	223.17753	228.44716	5.23799	0.0724021	0.22527204	2.6750456	21	5 23.5	20.5
427110 2014 UB_{86}	17.7	X	173.01800	322.21785	213.63581	0.52812	0.0632028	0.26709614	2.3879449	21	10 4.5	20.8
427111 2014 UU_{88}	16.2	X	265.87723	142.86954	80.21009	5.94632	0.0694208	0.17986962	3.1081180	21	—	—
427112 2014 UV_{89}	16.1	X	165.54233	129.66170	204.17833	10.19937	0.1246600	0.19172613	2.9786205	21	1 14.4	20.9
427113 2014 UD_{92}	17.1	X	245.53785	185.28067	186.70710	5.35665	0.2554534	0.24038234	2.5617358	21	5 5.9	21.5
427114 2014 UE_{92}	17.2	X	143.10485	11.06192	105.68408	4.71972	0.1800470	0.22702232	2.6612786	21	6 19.0	21.4
427115 2014 UH_{94}	17.9	X	2.52156	256.86990	63.61370	2.84927	0.2281852	0.27061800	2.3671817	21	9 23.3	19.4
427116 2014 UO_{94}	18.1	X	77.27286	124.77215	227.39457	2.10529	0.1363049	0.30955871	2.1642497	21	—	—
427117 2014 UX_{94}	17.7	X	265.83016	16.32425	114.43308	4.27026	0.1212073	0.28757496	2.2731879	21	11 30.2	20.1
427118 2014 UM_{95}	16.8	X	60.34791	21.35510	69.40203	2.42376	0.0381018	0.19068201	2.9894840	21	1 22.7	20.8
427119 2014 UO_{95}	16.9	X	83.20893	248.66546	143.93487	1.76638	0.1778600	0.17953956	3.1119261	21	—	—
427120 2014 UA_{96}	16.8	X	97.00051	272.21068	103.96507	2.40038	0.1685900	0.17974093	3.1096014	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
427121 2014 UD_{97}	16.8	X	145.42641	236.22801	129.58638	2.66037	0.0876989	0.19396257	2.9556801	21	1 29.5	21.0
427122 2014 UA_{98}	16.3	X	227.27993	211.01555	80.24359	9.55814	0.1824805	0.20100805	2.8862043	21	1 22.6	21.2
427123 2014 UK_{99}	17.1	X	254.18120	138.55031	212.18799	4.76427	0.0843247	0.22790651	2.6543910	21	5 3.5	20.9
427124 2014 UN_{99}	16.5	X	76.24639	324.83682	96.41237	4.09766	0.1772074	0.18036129	3.1024669	21	1 26.5	20.2
427125 2014 UL_{100}	17.0	X	256.42471	268.53294	111.00060	3.34248	0.0329463	0.24428448	2.5343823	21	6 20.2	20.3
427126 2014 UR_{100}	17.6	X	332.62370	218.67045	94.58056	3.60838	0.2021947	0.25708862	2.4495190	21	6 17.2	19.5
427127 2014 UY_{100}	16.7	X	196.67336	302.37857	82.86631	5.66666	0.0854152	0.22244276	2.6976806	21	4 16.5	20.7
427128 2014 UC_{101}	16.9	X	182.81622	276.36314	83.43442	4.99315	0.1130252	0.20841759	2.8173867	21	3 4.1	21.3
427129 2014 UK_{101}	18.4	X	19.52623	335.38922	68.45292	6.11377	0.1576986	0.30372381	2.1918802	21	—	—
427130 2014 UY_{102}	15.6	X	331.90561	238.10471	126.89871	4.60376	0.1798389	0.12385836	3.9858336	21	8 28.4	20.3
427131 2014 UN_{105}	17.8	X	242.09932	208.14308	244.10199	5.94147	0.0704235	0.26340179	2.4102212	21	9 2.5	21.2
427132 2014 UA_{106}	17.9	X	213.22681	148.45004	359.94291	1.69126	0.0192414	0.27509866	2.3414078	21	10 23.1	20.6
427133 2014 UW_{113}	17.6	X	161.21001	205.46120	205.86026	4.06738	0.2880817	0.21419792	2.7664695	21	4 21.2	22.5
427134 2014 UB_{114}	17.2	X	210.09690	6.25148	117.47924	7.76178	0.0529777	0.26436624	2.4043557	21	9 13.2	20.4
427135 2014 UV_{117}	16.6	X	181.50955	328.59506	54.10563	5.90379	0.1503392	0.21443053	2.7644684	21	3 31.2	21.0
427136 2014 UC_{127}	16.5	X	26.62542	236.66951	231.83849	9.18604	0.0978539	0.18333106	3.0688713	21	—	—
427137 2014 UW_{132}	15.8	X	290.97723	321.71022	203.73480	10.54654	0.0373786	0.16873450	3.2433971	21	—	—
427138 2014 UG_{135}	17.4	X	331.16552	324.20474	6.77718	2.54053	0.2493519	0.26275451	2.4141779	21	7 6.8	19.0
427139 2014 UK_{135}	18.7	X	341.47195	72.57315	334.77333	1.44754	0.1231400	0.28881311	2.2666865	21	12 16.0	20.6
427140 2014 UR_{135}	17.8	X	257.00616	208.39176	246.39822	2.90778	0.1381970	0.26854782	2.3793315	21	9 17.9	20.8
427141 2014 UW_{135}	16.1	X	76.35803	26.64902	36.05920	9.62372	0.0638194	0.18453810	3.0554747	21	1 14.6	20.3
427142 2014 UB_{139}	16.6	X	295.31612	313.50971	246.97224	9.23309	0.0386396	0.18683830	3.0303452	21	—	—
427143 2014 UL_{140}	17.4	X	230.27578	192.97220	247.14084	4.88509	0.0128970	0.25846152	2.4408370	21	8 9.4	20.6
427144 2014 UD_{148}	16.3	X	210.20884	90.39590	220.87231	6.61820	0.1143401	0.20046705	2.8913947	21	1 28.4	20.9
427145 2014 UM_{148}	18.6	X	283.23071	182.26196	218.73741	0.61545	0.1885280	0.26262760	2.4149555	21	8 2.4	21.5
427146 2014 UQ_{155}	16.0	X	31.95986	270.74724	152.48819	10.29025	0.1404249	0.17163519	3.2067504	21	—	—
427147 2014 UL_{156}	18.4	X	62.26340	40.04048	333.19051	1.88435	0.1978754	0.30978638	2.1631892	21	—	—
427148 2014 UY_{157}	17.2	X	125.96151	141.59825	95.40426	6.74084	0.0385573	0.28001567	2.3139173	21	11 2.8	20.2
427149 2014 UA_{171}	16.7	X	150.09944	154.62489	213.22777	9.51997	0.0851002	0.19309437	2.9645331	21	2 2.8	21.3
427150 2014 UC_{171}	15.9	X	132.98665	272.38791	67.80693	16.70286	0.2000821	0.18054989	3.1003061	21	1 1.1	20.7
427151 2014 UF_{175}	17.1	X	134.54840	171.98162	259.00692	18.22250	0.0948960	0.36029452	1.9559794	21	3 5.5	19.8
427152 2014 UN_{175}	16.4	X	241.50940	209.54347	104.63899	14.36290	0.2696632	0.22506369	2.6766963	21	2 26.0	21.3
427153 2014 UU_{175}	15.8	X	104.63878	267.29830	140.02985	15.80943	0.3128421	0.19211201	2.9746306	21	3 6.6	20.2
427154 2014 UJ_{178}	17.0	X	129.25383	242.99466	197.32920	7.42214	0.1678040	0.21377742	2.7700960	21	4 20.1	21.1
427155 2014 UZ_{181}	16.8	X	299.52347	50.40944	208.85507	6.05234	0.0292326	0.21125381	2.7921131	21	3 9.9	20.6
427156 2014 UF_{183}	16.7	X	200.04708	229.69147	195.04997	6.11672	0.1171067	0.23517907	2.5993830	21	6 6.6	20.7
427157 2014 UQ_{183}	15.9	X	277.39442	137.68819	64.12490	12.96160	0.0287346	0.17628014	3.1501686	21	—	—
427158 2014 UA_{185}	16.4	X	186.51987	317.17177	76.62611	7.74156	0.0183040	0.21455696	2.7633823	21	4 16.3	20.3
427159 2014 UA_{186}	16.2	X	333.96506	3.16514	226.45993	7.07078	0.0184786	0.21687606	2.7436475	21	3 16.6	20.1
427160 2014 UP_{186}	16.8	X	177.42501	105.47960	248.78927	4.54872	0.0251132	0.20263470	2.8707377	21	2 11.3	21.0
427161 2014 UY_{186}	18.4	X	352.52512	121.30479	280.12007	1.26640	0.1349443	0.29299542	2.2450645	21	12 30.2	20.5
427162 2014 UC_{187}	16.7	X	39.32012	197.05130	7.02408	3.63855	0.1155672	0.22931011	2.6435483	21	5 20.7	19.6
427163 2014 UQ_{189}	17.7	X	27.70954	207.31555	150.06237	7.02324	0.1701226	0.29305006	2.2447855	21	12 28.0	20.4
427164 2014 UT_{190}	16.7	X	152.21689	146.70607	283.43399	5.59833	0.1015535	0.22224563	2.6992756	21	4 21.6	20.8
427165 2014 UX_{191}	16.2	X	181.78948	337.46956	113.57208	27.83990	0.2289647	0.23351277	2.6117341	21	6 24.4	21.0
427166 2014 UH_{193}	17.4	X	292.17219	276.10714	39.91850	3.92176	0.2155327	0.24068717	2.5595725	21	4 14.9	21.0
427167 2014 UC_{197}	18.1	X	80.17994	211.63820	130.31944	3.16476	0.2084459	0.31143715	2.1555385	21	—	—
427168 2014 UH_{197}	16.4	X	143.92459	151.25651	202.20061	10.46391	0.0086320	0.18592104	3.0403041	21	1 3.7	20.9
427169 2014 UU_{197}	17.2	X	247.99257	48.62817	313.15527	2.49358	0.2011953	0.23726398	2.5841329	21	4 27.5	21.2
427170 2014 UU_{199}	16.9	X	290.35457	292.90858	19.95489	7.22623	0.2855445	0.24078082	2.5589087	21	3 30.9	20.6
427171 2014 UX_{199}	15.6	X	353.96307	290.53962	224.53525	16.84766	0.1850939	0.17738619	3.1370601	21	—	—
427172 2014 UY_{205}	16.0	X	72.26449	190.16588	225.60736	18.38620	0.1766198	0.17755994	3.1350133	21	1 9.1	20.2
427173 2014 UZ_{208}	16.4	X	80.68688	356.78312	67.16714	3.75281	0.2290935	0.18597546	3.0397109	21	2 13.0	20.2
427174 2014 UY_{214}	16.0	X	84.64024	295.78991	74.55022	11.15318	0.2071365	0.17526430	3.1623291	21	—	—
427175 2014 UH_{215}	16.2	X	169.95728	230.88943	142.33908	10.01450	0.1641766	0.20969487	2.8059344	21	3 9.9	20.7
427176 2014 UO_{215}	16.1	X	73.59985	296.64537	88.55904	17.79056	0.2512266	0.17580401	3.1558537	21	—	—
427177 2014 UX_{215}	15.5	X	72.38809	307.32856	106.12833	17.19322	0.1814311	0.18092045	3.0960713	21	1 10.5	19.1
427178 2014 UJ_{216}	17.6	X	316.33144	294.99165	77.94255	1.74264	0.2092566	0.26744793	2.3858505	21	8 19.0	19.4
427179 2014 UD_{217}	16.2	X	267.87047	100.43406	241.87754	4.35247	0.2998971	0.23803823	2.5785264	21	4 12.3	20.5
427180 2014 VK	16.3	X	103.69565	335.57554	108.87078	6.69566	0.0488934	0.20061203	2.8900015	21	3 14.1	20.3
427181 2014 VE_{1}	17.6	X	161.57796	271.57588	144.11937	23.45432	0.1066946	0.36807090	1.9283316	21	4 8.8	20.4
427182 2014 VF_{9}	18.7	X	283.12164	295.03891	121.76093	2.03909	0.1792047	0.26342276	2.4100933	21	8 28.0	21.3
427183 2014 VX_{9}	18.2	X	305.77545	349.99255	58.55096	2.34080	0.1735211	0.27202488	2.3590128	21	9 29.6	20.2
427184 2014 VM_{10}	16.0	X	123.54511	240.11088	124.25443	13.76389	0.1504395	0.18428858	3.0582321	21	1 13.1	20.5
427185 2014 VD_{11}	17.2	X	177.82722	45.23328	41.32181	4.35718	0.2398869	0.23256108	2.6188544	21	6 12.7	21.8
427186 2014 VA_{12}	17.0	X	188.92658	147.71671	218.08448	7.15108	0.2382382	0.21407265	2.7675487	21	3 15.1	22.0
427187 2014 VZ_{12}	17.2	X	254.90595	236.79340	110.74119	5.04602	0.2732693	0.23953581	2.5677678	21	4 13.7	21.6
427188 2014 VB_{14}	16.0	X	123.29682	218.28029	149.42162	9.21051	0.2074616	0.18788589	3.0190706	21	1 22.6	20.5
427189 2014 VD_{14}	16.4	X	85.28297	290.87097	112.72981	11.13882	0.2030717	0.18279872	3.0748266	21	1 20.7	20.2
427190 2014 VH_{14}	16.1	X	90.95898	296.47961	66.70588	27.54895	0.3062475	0.17605259	3.1528824	21	—	—
427191 2014 VR_{16}	16.7	X	63.45130	274.13583	158.54046	2.06993	0.0667169	0.18235775	3.0797814	21	1 8.1	20.6
427192 2014 VG_{17}	17.8	X	29.03315	288.81742	51.44000	6.89733	0.1694454	0.28886240	2.2664286	21	12 4.5	20.3
427193 2014 VN_{19}	17.1	X	310.24788	304.46282	93.47773	7.57873	0.1106743	0.27282575	2.3543940	21	10 3.2	19.6
427194 2014 VW_{19}	16.0	X	26.77116	65.54687	68.59134	9.68505	0.0576106	0.18805127	3.0173003	21	2 3.4	20.1
427195 2014 VT_{20}	16.7	X	287.56572	247.26570	69.08591	8.37780	0.2061558	0.23480855	2.6021167	21	4 14.8	20.5
427196 2014 VS_{21}	17.9	X	176.05431	266.15359	175.33637	2.81515	0.1479493	0.22807330	2.6530967	21	6 4.3	22.2
427197 2014 VA_{22}	17.2	X	199.64775	263.77600	118.60119	3.13102	0.1063862	0.21816062	2.7328668	21	4 15.3	21.5
427198 2014 VE_{22}	17.0	X	251.74921	250.60084	116.71730	3.02262	0.1375032	0.23550786	2.5969631	21	5 16.6	20.7
427199 2014 VX_{25}	16.8	X	194.97405	14.23993	65.39389	13.70903	0.1820226	0.23315962	2.6143706	21	6 17.9	21.1
427200 2014 VG_{28}	17.0	X	188.71003	229.30457	148.58578	2.46339	0.0921338	0.21605659	2.7505806	21	3 28.8	21.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
427201 2014 VK_{28}	18.2	X	303.06591	42.82843	3.94401	1.23419	0.1806308	0.27053199	2.3676834	21	9 18.5	20.2
427202 2014 VR_{31}	15.2	X	311.26551	267.12640	236.37891	13.42401	0.1437113	0.15341645	3.4558490	21	—	—
427203 2014 VY_{32}	15.7	X	172.22568	225.20376	80.09190	17.93821	0.2189957	0.17889241	3.1194266	21	—	—
427204 2014 VA_{35}	16.4	X	197.60497	171.17715	216.96083	5.55160	0.0365497	0.22081806	2.7108968	21	4 18.4	20.1
427205 2014 VO_{36}	18.6	X	55.34130	222.91815	182.66342	1.91737	0.1031428	0.31756737	2.1277085	21	—	—
427206 2014 VQ_{37}	15.8	X	72.37590	226.21769	193.61433	17.49603	0.2364842	0.18103782	3.0947329	21	1 22.6	19.8
427207 2014 WM	16.0	X	133.87216	275.83320	86.11884	3.52826	0.0976633	0.18539714	3.0460289	21	1 15.3	20.5
427208 2014 WN	17.4	X	299.05346	265.47686	121.15968	2.17358	0.1885767	0.26372536	2.4082494	21	8 7.9	19.7
427209 2014 WJ_{2}	17.7	X	317.79513	172.51579	209.92339	5.89808	0.1046109	0.26900651	2.3766261	21	9 16.4	20.1
427210 2014 WU_{2}	15.9	X	120.61916	276.06048	93.00856	2.50908	0.2872690	0.18882628	3.0090386	21	1 31.9	20.5
427211 2014 WA_{3}	17.5	X	221.28942	344.44100	71.13792	14.22900	0.1509797	0.24089297	2.5581144	21	6 13.4	21.5
427212 2014 WX_{3}	17.7	X	150.22734	82.74278	176.08620	3.38359	0.0839087	0.29518641	2.2339415	21	12 29.8	20.8
427213 2014 WV_{8}	16.8	X	105.56115	9.54507	41.63739	2.44726	0.0877917	0.19405529	2.9547385	21	2 7.8	20.7
427214 2014 WM_{10}	17.0	X	91.07506	65.37352	9.47045	1.96620	0.1778890	0.19462881	2.9489312	21	3 2.9	20.8
427215 2014 WS_{10}	16.9	X	87.48879	267.81516	236.02512	4.40550	0.0967872	0.22100683	2.7093530	21	5 10.8	20.4
427216 2014 WK_{13}	17.8	X	15.89117	102.66381	256.63512	5.67989	0.1379761	0.28772821	2.2723806	21	12 6.8	20.1
427217 2014 WE_{14}	16.6	X	246.25240	116.29423	181.01902	1.83174	0.0471286	0.20491739	2.8493787	21	2 21.3	20.7
427218 2014 WU_{18}	17.9	X	216.41516	124.98430	260.53034	1.74524	0.2278642	0.22763573	2.6564955	21	4 29.3	22.4
427219 2014 WK_{22}	17.6	X	160.85695	317.83814	247.85903	3.70945	0.0912277	0.27710033	2.3301186	21	10 29.6	20.9
427220 2014 WS_{22}	17.0	X	239.43872	284.20037	38.36466	3.57271	0.0871609	0.21511803	2.7585753	21	3 14.3	21.1
427221 2014 WB_{31}	15.8	X	94.05050	342.41427	67.86161	11.20859	0.1166113	0.18672594	3.0315607	21	1 30.3	20.0
427222 2014 WS_{33}	16.7	X	164.07587	20.34517	24.98681	4.72084	0.1097755	0.20868983	2.8149360	21	4 7.5	20.8
427223 2014 WT_{34}	17.0	X	278.43724	25.22779	313.77776	3.34744	0.1756699	0.24303543	2.5430583	21	5 2.2	20.6
427224 2014 WQ_{41}	18.2	X	303.20531	256.38152	138.81145	3.11378	0.1873228	0.26844981	2.3799106	21	8 30.3	20.3
427225 2014 WP_{42}	16.7	X	222.69028	300.66156	26.83660	13.08989	0.1861616	0.21575217	2.7531673	21	3 4.3	21.4
427226 2014 WX_{43}	16.6	X	97.04357	50.20353	84.12188	5.92234	0.0595060	0.22036309	2.7146269	21	5 7.1	20.2
427227 2014 WZ_{44}	16.8	X	88.03907	281.45916	223.89730	6.89190	0.1739828	0.21249347	2.7812433	21	5 26.7	20.4
427228 2014 WZ_{47}	16.6	X	136.71510	297.06235	93.65181	5.00673	0.0991669	0.19541012	2.9410654	21	2 21.8	20.9
427229 2014 WP_{48}	17.5	X	281.76001	210.60868	151.14129	3.34024	0.1650867	0.24734463	2.5134354	21	6 9.6	20.8
427230 2014 WK_{50}	13.4	X	290.94243	92.28500	238.93555	12.41997	0.0656941	0.08447675	5.1441219	21	6 2.8	20.2
427231 2014 WO_{54}	15.7	X	157.69426	278.31265	78.22379	18.51622	0.0500935	0.18745762	3.0236672	21	2 1.5	20.4
427232 2014 WT_{54}	16.8	X	177.79201	295.81386	111.89522	4.41119	0.1974505	0.21737456	2.7394512	21	4 27.9	21.4
427233 2014 WH_{55}	18.3	X	275.38445	325.80564	126.28366	2.02725	0.1433734	0.27063294	2.3670946	21	10 13.8	20.7
427234 2014 WR_{55}	17.6	X	270.30443	347.81420	81.71888	4.22049	0.1484324	0.26185928	2.4196771	21	9 2.7	20.6
427235 2014 WB_{56}	17.2	X	142.31707	66.06212	76.67829	6.59295	0.0663954	0.23585942	2.5943819	21	7 14.3	21.0
427236 2014 WM_{59}	16.9	X	140.39000	0.49932	112.69010	3.17471	0.0474279	0.22534374	2.6744781	21	5 31.6	20.6
427237 2014 WH_{60}	16.6	X	93.96629	326.33556	151.38162	5.10632	0.0165750	0.21325228	2.7746418	21	4 5.4	20.4
427238 2014 WC_{61}	16.6	X	331.15474	157.86222	77.74577	10.21662	0.0879429	0.21283042	2.7783071	21	3 21.0	20.3
427239 2014 WF_{61}	17.1	X	247.36435	272.88615	71.15283	11.96683	0.2110763	0.23151155	2.6267633	21	4 11.3	21.5
427240 2014 WJ_{61}	16.4	X	229.42428	221.39580	88.27812	9.13599	0.2125313	0.21123041	2.7923193	21	2 13.9	21.3
427241 2014 WZ_{61}	17.1	X	138.94790	52.71546	124.76953	6.27763	0.0124395	0.25567016	2.4585706	21	8 23.9	20.3
427242 2014 WB_{65}	17.2	X	226.51493	101.62126	228.09401	11.79203	0.1932378	0.21832800	2.7314699	21	2 27.4	22.0
427243 2014 WR_{66}	17.4	X	98.57583	295.15879	206.30254	2.79359	0.0168967	0.22651366	2.6652613	21	5 10.4	20.9
427244 2014 WG_{67}	15.3	X	61.45720	351.07712	79.40883	24.03037	0.1250315	0.17608675	3.1524746	21	1 8.9	19.4
427245 2014 WM_{67}	16.0	X	22.25125	256.62588	247.47331	24.26327	0.2503885	0.17922197	3.1156014	21	1 25.0	19.6
427246 2014 WU_{67}	16.6	X	84.27108	296.71784	107.91508	2.51116	0.1965212	0.17894090	3.1188630	21	1 20.4	20.5
427247 2014 WC_{70}	15.4	X	99.94778	260.84374	146.11015	26.30191	0.2709872	0.17221822	3.1995088	21	2 24.9	20.0
427248 2014 WN_{70}	17.2	X	335.38576	173.08453	94.61610	4.27154	0.0464459	0.22791239	2.6543453	21	5 8.2	20.4
427249 2014 WY_{74}	17.2	X	206.50583	300.67023	59.33677	16.01775	0.2974783	0.22512571	2.6762046	21	3 30.3	22.3
427250 2014 WP_{76}	18.3	X	207.14771	35.85499	101.38467	3.22135	0.1435749	0.26129475	2.4231609	21	9 17.6	21.8
427251 2014 WN_{85}	17.1	X	258.27473	110.19944	195.68132	4.23462	0.0493099	0.21375926	2.7702529	21	3 16.1	21.1
427252 2014 WR_{96}	17.6	X	70.55498	73.77360	183.73153	6.84133	0.0721919	0.26314294	2.4118015	21	9 18.9	20.6
427253 2014 WU_{102}	17.8	X	218.21159	255.27950	227.26602	3.49524	0.1302906	0.26394483	2.4069142	21	9 8.3	21.3
427254 2014 WZ_{109}	16.9	X	147.94509	247.38463	146.62429	5.75581	0.1588136	0.20311115	2.8662465	21	3 13.9	21.4
427255 2014 WT_{115}	15.8	X	326.76967	280.30955	205.16856	13.52972	0.0593688	0.17106749	3.2138410	21		—
427256 2014 WQ_{117}	16.6	X	212.79700	295.72503	60.13155	18.28537	0.1805174	0.21447021	2.7641274	21	4 2.6	21.5
427257 2014 WN_{118}	16.1	X	4.89762	67.85224	75.85827	11.62134	0.0479728	0.17042168	3.2219551	21	1 19.0	20.5
427258 2014 WV_{119}	17.5	X	359.59452	290.07399	97.96576	6.68578	0.1928968	0.29224079	2.2489277	21	—	—
427259 2014 WW_{128}	16.7	X	190.42576	291.01621	47.11485	9.53738	0.2322337	0.20931939	2.8092890	21	2 18.9	21.7
427260 2014 WE_{145}	16.6	X	217.97325	109.34928	249.22789	24.54061	0.1290204	0.21990254	2.7184158	21	3 24.3	21.5
427261 2014 WW_{147}	16.6	X	109.70310	320.27145	51.40318	1.88509	0.1604139	0.18446804	3.0562482	21	1 7.4	20.7
427262 2014 WV_{157}	16.7	X	131.52544	22.33764	58.58634	7.20656	0.0261592	0.21543542	2.7558652	21	4 8.5	20.5
427263 2014 WL_{159}	17.1	X	353.22538	208.47951	126.90560	5.78732	0.0966185	0.26932876	2.3747300	21	9 15.4	19.4
427264 2014 WO_{160}	17.4	X	259.17519	295.53811	118.26859	6.95741	0.1366914	0.25504210	2.4626052	21	7 26.5	20.5
427265 2014 WN_{163}	16.3	X	199.14379	8.52151	64.08663	22.73290	0.0410212	0.22492247	2.6778166	21	6 15.5	20.2
427266 2014 WO_{163}	16.8	X	242.80031	107.02366	2.55130	8.69062	0.1533154	0.25615766	2.4554503	21	9 18.6	20.1
427267 2014 WS_{163}	16.1	X	96.20911	14.83454	55.70883	17.91970	0.1974063	0.18177170	3.0863976	21	3 18.9	20.7
427268 2014 WJ_{166}	17.8	X	303.39373	92.95738	269.44286	1.64378	0.2181208	0.26289384	2.4133248	21	7 3.5	20.4
427269 2014 WO_{166}	16.8	X	214.98567	159.20677	223.61738	7.95292	0.1230294	0.23066506	2.6331858	21	4 28.3	20.7
427270 2014 WT_{167}	17.8	X	28.00114	313.02520	62.26139	3.32022	0.1605313	0.29871466	2.2163161	21	—	—
427271 2014 WQ_{168}	18.1	X	317.67266	9.89505	90.33794	4.24364	0.1741096	0.29672226	2.2262263	21	—	—
427272 2014 WA_{170}	16.8	X	249.07142	240.21025	91.78608	7.48950	0.1777768	0.23462905	2.6034437	21	3 29.6	21.0
427273 2014 WQ_{170}	18.0	X	241.60278	149.06079	323.98449	2.32326	0.1925042	0.26172552	2.4205014	21	9 15.6	21.3
427274 2014 WK_{180}	16.0	X	126.42165	209.31416	128.00153	5.40413	0.1163233	0.18235976	3.0797588	21	—	—
427275 2014 WG_{183}	16.1	X	185.72251	226.45227	118.41033	4.77069	0.1027018	0.20868037	2.8150211	21	2 15.0	20.3
427276 2014 WY_{183}	16.2	X	325.21145	194.06014	6.41698	10.38690	0.0645483	0.17774667	3.1328173	21	2 4.1	20.6
427277 2014 WF_{186}	17.6	X	294.12243	127.19835	350.21150	5.55311	0.1694230	0.28121045	2.3073585	21	12 25.2	19.4
427278 2014 WV_{191}	15.9	X	38.04307	320.14993	156.65764	13.37609	0.1511109	0.17971840	3.1098613	21	1 29.3	19.5
427279 2014 WZ_{196}	17.0	X	200.17231	171.67509	308.47383	5.83612	0.0802382	0.25123918	2.4873934	21	8 19.7	20.5
427280 2014 WN_{197}	16.9	X	235.40124	270.69892	80.44196	13.71872	0.2508269	0.23175498	2.6249236	21	4 9.1	21.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
427281 2014 WY_{197}	17.7	X	233.17647	279.95680	187.96355	12.47374	0.1265068	0.26107409	2.4245261	21	9 5.9	21.1
427282 2014 WZ_{202}	17.0	X	300.35115	347.41599	100.31822	24.07824	0.2090672	0.28220155	2.3019530	21	11 26.7	19.2
427283 2014 WN_{208}	15.0	X	174.16271	213.34313	78.28790	16.68469	0.0266991	0.17458243	3.1705579	21	—	—
427284 2014 WK_{212}	15.9	X	297.17585	318.87968	282.69698	10.87282	0.0704484	0.19964886	2.8992889	21	2 7.4	20.0
427285 2014 WM_{219}	16.1	X	99.75348	109.76449	258.83959	9.03504	0.0818091	0.17458741	3.1704976	21	—	—
427286 2014 WW_{230}	17.8	X	308.90887	62.57338	345.24898	6.87086	0.1055393	0.27316764	2.3524291	21	10 8.8	20.2
427287 2014 WH_{231}	16.1	X	68.71385	135.35684	280.06421	6.73196	0.1488520	0.17357494	3.1828148	21	1 5.1	20.1
427288 2014 WE_{235}	15.3	X	278.57105	267.92079	303.59511	13.10463	0.1692576	0.17162533	3.2068733	21	—	—
427289 2014 WD_{238}	16.7	X	4.64995	22.54022	124.57796	6.43717	0.2544284	0.17811736	3.1284692	21	—	—
427290 2014 WY_{238}	17.8	X	57.78393	226.66406	125.83589	6.45873	0.0876618	0.29856541	2.2170546	21	—	—
427291 2014 WP_{241}	16.0	X	95.00383	262.93311	140.83351	13.92515	0.1588211	0.18098697	3.0953125	21	1 27.5	20.1
427292 2014 WR_{241}	15.6	X	121.15938	261.26303	118.18522	17.43736	0.1953661	0.18508888	3.0494100	21	2 3.8	20.2
427293 2014 WF_{250}	17.6	X	58.51130	344.75697	337.92383	6.57144	0.1448774	0.28920698	2.2646280	21	12 15.3	20.7
427294 2014 WZ_{252}	18.0	X	218.54025	329.67490	97.17914	6.67934	0.2425930	0.24407460	2.5358350	21	6 20.7	22.3
427295 2014 WJ_{253}	15.9	X	109.74872	261.12853	82.28752	14.92095	0.2151473	0.17729382	3.1381497	21	—	—
427296 2014 WL_{253}	15.6	X	357.12653	348.75855	128.33670	10.28186	0.0533716	0.17524484	3.1625632	21	—	—
427297 2014 WQ_{253}	15.6	X	188.53613	341.34982	67.01995	22.80555	0.0421662	0.22816526	2.6523838	21	5 9.1	19.5
427298 2014 WS_{253}	16.1	X	115.19411	299.18796	81.46596	11.46485	0.0570263	0.18872621	3.0101021	21	1 9.7	20.3
427299 2014 WZ_{258}	17.0	X	114.31071	343.07712	120.90541	5.73251	0.0849105	0.21118256	2.7927411	21	4 25.0	21.0
427300 2014 WT_{259}	18.2	X	304.48402	286.95105	173.83694	3.30724	0.1130715	0.28794037	2.2712643	21	12 25.6	20.2
427301 2014 WR_{260}	17.7	X	157.28130	13.92670	129.99256	4.65973	0.0756060	0.24376797	2.5379611	21	8 2.8	21.4
427302 2014 WZ_{260}	17.6	X	347.78984	334.98168	95.96038	7.11286	0.0616772	0.29604965	2.2295969	21	—	—
427303 2014 WP_{264}	15.6	X	92.65573	268.99131	97.89756	14.00130	0.1276680	0.16995220	3.2278860	21	—	—
427304 2014 WE_{266}	16.2	X	264.04986	213.04758	113.34329	9.92061	0.0412400	0.22047178	2.7137346	21	4 24.3	20.1
427305 2014 WO_{267}	17.2	X	47.73848	84.22816	181.66227	6.54302	0.1427107	0.25504221	2.4626045	21	9 8.1	20.0
427306 2014 WZ_{268}	17.8	X	229.55609	319.45730	184.59096	6.25555	0.0692847	0.27393011	2.3480619	21	11 2.3	20.7
427307 2014 WJ_{272}	16.5	X	197.66683	199.49012	170.64494	6.00886	0.0652058	0.21030911	2.8004683	21	3 28.9	20.5
427308 2014 WU_{278}	16.1	X	13.44696	346.85807	195.32613	8.79733	0.0404753	0.19942872	2.9014221	21	3 11.1	19.9
427309 2014 WW_{280}	16.5	X	278.85874	237.64903	99.44180	7.37559	0.2714011	0.24003559	2.5642023	21	4 23.3	20.5
427310 2014 WA_{282}	15.7	X	12.53865	27.00719	99.34365	10.28201	0.1201449	0.17290984	3.1909714	21	1 2.3	19.6
427311 2014 WH_{285}	16.5	X	167.08723	264.03175	86.56463	14.27448	0.1348993	0.19303056	2.9651864	21	2 10.5	21.3
427312 2014 WL_{285}	17.7	X	84.74061	143.27296	163.19164	6.25412	0.2229920	0.29410243	2.2394273	21	12 29.3	21.3
427313 2014 WQ_{286}	16.2	X	208.75218	253.45090	140.61068	6.94872	0.0596190	0.22325161	2.6911608	21	5 11.5	20.2
427314 2014 WW_{290}	18.0	X	29.63442	230.15048	136.32445	7.68612	0.1663936	0.29376534	2.2411401	21	—	—
427315 2014 WB_{291}	16.3	X	259.05755	242.76385	97.27042	14.52067	0.1152641	0.22836178	2.6508619	21	4 28.2	20.4
427316 2014 WT_{291}	17.1	X	183.44285	11.25881	132.21922	9.62330	0.1118750	0.25305140	2.4755035	21	9 2.3	20.9
427317 2014 WH_{292}	16.4	X	108.83320	341.14441	111.03779	13.29367	0.0522724	0.20511202	2.8475759	21	4 2.9	20.6
427318 2014 WO_{292}	16.6	X	165.81534	189.61887	164.89373	10.61136	0.0244165	0.18978586	2.9988874	21	1 31.7	21.0
427319 2014 WU_{292}	16.6	X	91.15501	274.72453	159.14352	10.65511	0.0953770	0.19005048	2.9961030	21	2 17.5	20.5
427320 2014 WV_{293}	16.3	X	63.27048	73.42454	115.55794	15.15197	0.0791271	0.22334078	2.6904445	21	6 6.8	19.9
427321 2014 WK_{294}	16.5	X	43.53768	343.73557	182.96504	15.23123	0.0769899	0.20414726	2.8565402	21	4 7.1	20.0
427322 2014 WC_{295}	16.2	X	113.92218	66.71255	112.82068	16.16317	0.0698852	0.23888410	2.5724359	21	7 29.6	19.7
427323 2014 WM_{295}	17.1	X	174.71389	245.86307	136.88196	8.97200	0.2264281	0.20987487	2.8043298	21	3 29.2	22.0
427324 2014 WY_{300}	16.4	X	275.16973	53.42078	274.80897	10.77097	0.1472024	0.23716051	2.5848844	21	4 15.3	20.4
427325 2014 WB_{309}	15.8	X	144.85305	337.38388	35.41269	11.42257	0.0522209	0.18978016	2.9989473	21	2 7.6	20.3
427326 2014 WZ_{310}	17.2	X	162.20086	130.13173	336.15123	2.85911	0.0849506	0.23001124	2.6381734	21	6 19.5	21.1
427327 2014 WJ_{311}	17.8	X	291.87286	134.64216	17.22485	5.05799	0.0721431	0.30091485	2.2054995	21	—	—
427328 2014 WQ_{314}	16.6	X	163.81108	279.51183	98.88447	7.56606	0.1280184	0.21153738	2.7896174	21	3 9.3	21.0
427329 2014 WQ_{316}	15.1	X	334.48413	229.96505	106.21390	14.60975	0.2690390	0.12332426	3.9973334	21	7 17.3	19.3
427330 2014 WL_{317}	16.8	X	260.69844	261.04163	80.94711	15.20174	0.1497204	0.23917581	2.5703438	21	4 27.5	20.8
427331 2014 WA_{324}	16.3	X	116.56602	250.52936	120.46115	9.41248	0.0875326	0.18311634	3.0712699	21	1 4.8	20.7
427332 2014 WF_{326}	16.6	X	53.99349	305.60502	157.47731	12.72865	0.0681874	0.19036926	2.9927573	21	1 29.8	20.5
427333 2014 WV_{326}	16.7	X	73.42620	273.23399	171.23705	10.98784	0.1113285	0.19006208	2.9959810	21	2 7.3	20.6
427334 2014 WW_{327}	16.0	X	129.74429	215.21201	174.64325	12.08197	0.0680919	0.19418365	2.9534363	21	2 5.3	20.3
427335 2014 WC_{331}	16.1	X	93.68245	294.87879	101.64758	10.64327	0.1070498	0.18215293	3.0820897	21	1 10.0	20.1
427336 2014 WW_{334}	16.0	X	88.51353	242.17698	196.34739	12.95752	0.0980852	0.19285994	2.9669350	21	2 16.9	20.1
427337 2014 WR_{337}	17.1	X	183.52422	199.45034	184.25372	10.66765	0.3158388	0.21804885	2.7338007	21	4 5.3	22.2
427338 2014 WR_{340}	16.2	X	142.11153	242.83634	129.85124	10.33518	0.1237869	0.19402636	2.9550322	21	2 7.6	20.5
427339 2014 WV_{342}	16.0	X	111.82032	230.44851	155.46272	12.11599	0.0397162	0.18543385	3.0456269	21	1 9.2	20.4
427340 2014 WK_{348}	17.3	X	281.29209	93.41193	345.15800	6.50845	0.1025224	0.27138113	2.3627419	21	10 7.1	19.9
427341 2014 WN_{348}	15.9	X	172.34329	334.05527	5.52691	9.62913	0.0353348	0.18833694	3.0142484	21	1 26.9	20.4
427342 2014 WQ_{349}	16.5	X	280.95242	346.30506	340.10398	4.98831	0.0462414	0.22836932	2.6508036	21	5 8.1	20.1
427343 2014 WC_{353}	16.7	X	168.45414	51.87491	100.74116	6.27899	0.1830864	0.24583096	2.5237423	21	8 29.3	20.9
427344 2014 WA_{354}	16.9	X	170.94700	307.67926	183.72644	10.44112	0.1640551	0.22894724	2.6463408	21	7 30.5	21.4
427345 2014 WP_{358}	16.1	X	114.20574	13.50131	13.37688	9.82759	0.0843093	0.18803946	3.0174267	21	1 22.6	20.4
427346 2014 WW_{364}	12.7	X	267.11515	272.33980	75.74348	33.09357	0.0682301	0.08327543	5.1934760	21	5 28.7	19.6
427347 2014 WO_{374}	17.8	X	286.65130	98.86607	357.95577	0.91232	0.1382361	0.27704313	2.3304393	21	11 10.1	20.1
427348 2014 WT_{377}	15.9	X	43.04758	257.17843	176.67757	15.98041	0.0711966	0.17201225	3.2020624	21	—	—
427349 2014 WU_{381}	16.3	X	204.31949	126.37675	354.07887	12.73692	0.0932892	0.24378267	2.5378590	21	8 27.6	20.0
427350 2014 WE_{392}	16.1	X	95.33558	259.86239	121.47935	15.72379	0.0795289	0.17550435	3.1594449	21	—	—
427351 2014 WX_{392}	16.8	X	82.80745	91.13161	344.90483	5.62348	0.1642048	0.18493458	3.0511060	21	2 20.9	20.7
427352 2014 WG_{393}	15.6	X	75.27017	104.93582	294.32822	10.49151	0.0765354	0.16935862	3.2354238	21	—	—
427353 2014 WS_{400}	15.0	X	215.09112	9.86072	261.43714	21.37016	0.1016851	0.17851450	3.1238276	21	—	—
427354 2014 WT_{401}	16.7	X	139.42178	293.96233	98.58463	3.17360	0.0898233	0.19705346	2.9246911	21	2 25.0	20.9
427355 2014 WA_{404}	16.2	X	55.12658	19.83527	74.44966	18.35848	0.1143329	0.17971460	3.1099051	21	1 31.3	20.3
427356 2014 WQ_{406}	15.9	X	111.47228	150.38391	251.41174	15.39755	0.1531339	0.18623847	3.0368484	21	2 6.6	20.5
427357 2014 WX_{407}	16.1	X	164.02740	357.67300	71.50551	10.37153	0.0851868	0.21579300	2.7528200	21	5 7.2	20.2
427358 2014 WY_{412}	17.5	X	35.40444	201.68442	144.05185	7.45795	0.1376499	0.28479477	2.2879580	21	12 16.3	20.3
427359 2014 WZ_{413}	14.9	X	109.29757	283.51166	93.90492	16.55823	0.0537972	0.17424617	3.1746356	21	—	—
427360 2014 WA_{427}	16.4	X	111.02279	340.94912	117.74265	11.16853	0.0744092	0.19005846	2.9960191	21	4 17.5	20.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
427361 2014 WL_{427}	17.0	X	240.80140	261.58344	272.01632	8.42299	0.0521338	0.26882624	2.3776884	21	12 27.6	19.8
427362 2014 WS_{435}	17.3	X	280.34700	61.79995	330.52501	13.24943	0.1651727	0.25765740	2.4459128	21	7 23.7	20.5
427363 2014 WR_{447}	16.5	X	172.93932	200.55953	263.98503	8.36869	0.0836109	0.23240997	2.6199895	21	6 28.9	20.3
427364 2014 WY_{448}	16.8	X	102.21196	201.58494	301.28519	7.12090	0.1680228	0.21394073	2.7686862	21	6 8.4	20.8
427365 2014 WK_{452}	16.3	X	148.18313	61.11636	293.72095	8.74593	0.1191152	0.18397097	3.0617509	21	1 23.9	21.0
427366 2014 WB_{456}	14.8	X	256.21118	58.94926	158.48874	21.44400	0.0308270	0.16804356	3.2522815	21	—	—
427367 2014 WF_{461}	17.0	X	179.67008	194.05992	251.46500	10.62510	0.1519059	0.22928853	2.6437141	21	6 12.4	21.3
427368 2014 WE_{465}	16.9	X	325.54146	316.34664	64.54640	7.96505	0.1145584	0.26741039	2.3860738	21	10 4.7	19.3
427369 2014 WB_{472}	13.3	X	284.85749	255.96089	82.08112	26.06205	0.0518137	0.08416425	5.1568475	21	6 6.5	20.0
427370 2014 WD_{472}	15.6	X	75.47355	317.59758	101.86968	11.87076	0.0423807	0.17830867	3.1262311	21	1 6.9	19.7
427371 2014 WF_{484}	16.6	X	232.90180	295.06963	113.28130	14.60934	0.1774828	0.24091937	2.5579275	21	6 15.8	20.7
427372 2014 WB_{485}	17.9	X	281.21806	72.61211	20.11796	2.42589	0.1618244	0.27274987	2.3548306	21	10 20.7	20.3
427373 2014 WF_{498}	15.8	X	318.76402	239.51009	118.16052	31.83568	0.2729839	0.23644821	2.5900732	21	7 16.5	18.0
427374 2014 XO	13.7	X	248.53270	58.28696	309.50353	14.53525	0.1309475	0.08511950	5.1181930	21	5 18.0	21.0
427375 2014 XW_{7}	18.2	X	358.68935	31.70784	232.39192	21.59694	0.0430788	0.37687256	1.8981901	21	5 28.7	19.5
427376 2014 XQ_{12}	17.4	X	188.06458	327.42945	119.62362	0.42935	0.1418369	0.23283773	2.6167796	21	6 22.5	21.6
427377 2014 XF_{15}	16.7	X	264.39878	308.27707	76.31794	10.35517	0.1301589	0.24349695	2.5398440	21	6 23.2	20.2
427378 2014 XN_{15}	16.4	X	159.51854	209.46334	258.26118	11.92361	0.2033047	0.22529813	2.6748391	21	6 23.2	20.9
427379 2014 XD_{17}	17.0	X	255.00578	213.64701	158.41262	5.11143	0.2731677	0.24194356	2.5507036	21	5 13.1	21.2
427380 2014 XC_{26}	16.8	X	197.16529	85.05566	274.12876	7.99808	0.1592029	0.20682148	2.8318633	21	3 11.4	21.6
427381 2014 XS_{26}	15.8	X	117.46496	80.92533	104.98853	15.22736	0.0478948	0.23232997	2.6205909	21	8 10.5	19.5
427382 2014 XZ_{26}	17.2	X	138.05498	214.14701	271.66915	6.41181	0.1759118	0.21499593	2.7596196	21	6 25.4	21.4
427383 2014 XD_{27}	16.7	X	134.56781	321.18387	134.93439	1.67940	0.2102880	0.20486331	2.8498801	21	5 19.5	21.2
427384 2014 XX_{28}	15.9	X	173.48237	210.69474	86.68841	10.11054	0.0703855	0.17257976	3.1950389	21	—	—
427385 2014 XC_{29}	16.2	X	118.41703	330.31256	116.53431	9.48288	0.1739215	0.20221377	2.8747201	21	4 22.2	20.6
427386 2014 XK_{39}	16.1	X	71.01078	33.20854	68.08890	2.96797	0.1724579	0.18526251	3.0475045	21	3 9.6	19.8
427387 2014 XM_{39}	16.6	X	175.23491	335.85406	74.98720	16.71957	0.1945232	0.21523031	2.7576158	21	5 3.1	21.4
427388 2014 YH_{5}	17.7	X	117.43952	219.35845	285.97693	18.76492	0.0823931	0.36511525	1.9387244	21	6 16.6	19.7
427389 2014 YA_{11}	16.4	X	140.06218	117.56816	278.28650	9.72014	0.0807548	0.19305053	2.9649820	21	2 23.6	21.0
427390 2014 YQ_{16}	16.7	X	170.69789	61.23105	353.60055	5.16319	0.0817120	0.21269302	2.7795035	21	4 22.4	20.9
427391 2014 YW_{16}	15.9	X	99.73530	90.79122	298.19513	7.99046	0.0833291	0.17360901	3.1823983	21	1 7.7	20.1
427392 2014 YO_{30}	16.8	X	80.14463	131.76315	346.18155	10.93164	0.2751145	0.18776623	3.0203532	21	4 22.7	21.0
427393 2014 YB_{32}	15.6	X	102.97233	280.00857	125.34974	11.75522	0.1274012	0.17402596	3.1773132	21	2 6.5	19.9
427394 1995 SJ_{76}	16.4	X	268.77437	156.80952	174.35070	8.53549	0.0742467	0.17858054	3.1230574	21	5 2.7	20.9
427395 1995 UB_{31}	17.4	X	251.85901	169.36592	203.22897	7.40162	0.1223188	0.21616132	2.7496920	21	5 26.2	21.4
427396 1996 TA	16.6	X	242.98056	39.69269	7.12116	13.25839	0.2519325	0.22858496	2.6491362	21	6 14.7	21.3
427397 1997 NZ_{1}	17.4	X	225.11357	152.46787	112.32571	5.44454	0.2075726	0.27241418	2.3567648	21	—	—
427398 1997 SQ_{7}	17.8	X	147.07335	291.57732	4.78666	4.62936	0.1921116	0.26097773	2.4251229	21	—	—
427399 1997 SY_{7}	16.9	X	137.26548	75.47172	354.42284	8.86859	0.1476789	0.18682219	3.0305194	21	4 12.5	21.7
427400 1997 WH_{56}	18.0	X	96.38390	18.46220	25.67615	8.54313	0.1236769	0.30348462	2.1930318	21	—	—
427401 1998 HJ_{5}	16.4	X	21.63031	273.48900	43.19581	14.19872	0.1498064	0.22612756	2.6682942	21	10 11.1	19.5
427402 1998 MU_{15}	16.5	X	137.72329	338.56445	247.27832	12.71513	0.0837572	0.22821647	2.6519870	21	10 22.5	20.7
427403 1998 RN_{8}	15.9	X	147.57159	126.65554	14.30979	15.11601	0.0860643	0.20535736	2.8453075	21	7 23.3	20.5
427404 1999 CO_{135}	16.2	X	27.99180	249.11499	337.33345	9.12375	0.2001202	0.18463177	3.0544411	21	6 13.0	19.6
427405 1999 RD_{45}	15.8	X	337.02579	116.41853	175.02525	25.53744	0.3751556	0.17574926	3.1565091	21	5 5.4	19.3
427406 1999 RV_{185}	17.6	X	19.26976	33.19663	348.36189	8.05253	0.2315340	0.27621402	2.3351005	21	—	—
427407 1999 TR_{7}	16.4	X	246.24159	351.38273	29.06786	13.87283	0.3046463	0.21333669	2.7739099	21	5 10.9	21.3
427408 1999 TU_{219}	17.2	X	143.33461	86.38365	309.60614	4.28625	0.3538032	0.20092154	2.8870328	21	3 24.4	22.4
427409 1999 UA_{22}	16.7	X	245.50088	178.81655	204.61992	3.15707	0.1092093	0.21198711	2.7856705	21	6 3.2	20.9
427410 1999 UG_{31}	16.4	X	74.08750	232.33297	31.28301	15.46680	0.0727259	0.22252289	2.6970330	21	10 2.8	20.2
427411 1999 VF_{42}	16.6	X	146.33737	207.08585	268.36976	3.08750	0.0600950	0.21012667	2.8020890	21	6 12.0	20.7
427412 1999 VQ_{156}	17.8	X	10.18951	4.79160	30.04216	1.57206	0.2131224	0.27327895	2.3517903	21	—	—
427413 1999 XT_{53}	17.8	X	134.76264	169.98220	240.53513	9.08796	0.3662624	0.19916425	2.9039901	21	4 4.4	23.1
427414 1999 XX_{147}	17.1	X	213.24374	22.75041	66.16110	5.81162	0.0942027	0.21232883	2.7826808	21	7 24.1	21.4
427415 2000 AP_{221}	18.0	X	284.23536	7.49248	84.26799	2.50812	0.1461370	0.26350793	2.4095740	21	10 26.5	20.4
427416 2000 BN_{31}	17.9	X	181.83029	38.44682	131.87688	23.45704	0.0765496	0.39544857	1.8382703	21	11 3.9	20.6
427417 2000 DE_{118}	18.0	X	237.13977	221.92814	328.75783	1.84980	0.1490868	0.26546543	2.3977141	21	12 29.9	21.0
427418 2000 KD_{49}	15.8	X	305.89136	123.18619	127.67810	17.81547	0.1683984	0.17657108	3.1467072	21	2 25.2	20.3
427419 2000 NH_{8}	17.1	X	120.08693	11.49841	233.19721	3.76424	0.1500817	0.24523896	2.5278021	21	11 4.5	20.9
427420 2000 QO_{34}	17.9	X	207.54782	64.70680	343.33505	17.06744	0.2345486	0.36464720	1.9403830	21	5 6.6	21.3
427421 2000 QO_{133}	16.7	X	286.95436	20.97640	345.18260	12.50587	0.3040676	0.22983887	2.6394923	21	5 29.8	20.7
427422 2000 RA_{37}	16.7	X	337.81449	359.59994	325.70421	15.05376	0.2184370	0.23214999	2.6219452	21	7 21.7	19.1
427423 2000 SO_{11}	16.8	X	42.92425	293.13925	7.95059	12.73393	0.2826857	0.23822072	2.5772094	21	11 5.4	20.3
427424 2000 SP_{21}	17.6	X	192.45742	74.56629	6.13764	21.41533	0.0862664	0.36627750	1.9346210	21	6 13.7	20.6
427425 2000 SV_{21}	17.7	X	226.09912	68.35549	357.67041	19.13330	0.1093133	0.36901386	1.9250452	21	7 12.5	20.5
427426 2000 SW_{96}	17.4	X	107.15715	39.51798	295.33857	5.10207	0.2020374	0.29653249	2.2271759	21	—	—
427427 2000 SB_{162}	16.1	X	229.45924	138.30310	223.28581	13.76146	0.2367857	0.21965349	2.7204702	21	4 9.6	20.8
427428 2000 SK_{181}	17.2	X	104.19033	356.14887	5.89855	6.01187	0.1954685	0.29924156	2.2137136	21	—	—
427429 2000 SR_{304}	16.7	X	233.16016	28.75597	358.06979	13.78527	0.2504517	0.22178658	2.7029989	21	5 9.1	21.5
427430 2000 SM_{343}	16.1	X	322.38090	106.98064	186.85629	15.50942	0.1816653	0.17936279	3.1139704	21	5 11.2	20.1
427431 2000 TM_{30}	17.1	X	244.86655	11.86366	37.78240	10.56713	0.2087535	0.22484549	2.6784277	21	6 25.0	21.4
427432 2000 TE_{38}	16.9	X	261.48578	329.15297	40.85055	9.68150	0.3004053	0.22576813	2.6711255	21	5 12.1	21.3
427433 2000 UV_{61}	17.5	X	229.68695	135.77315	247.59046	4.67504	0.3444386	0.22069024	2.7119435	21	5 2.1	22.6
427434 2000 WS_{63}	16.8	X	309.74812	300.23698	37.19190	14.95928	0.1385765	0.22601672	2.6691665	21	6 19.9	20.3
427435 2001 BC_{73}	16.0	X	131.59157	97.56772	130.73388	23.59250	0.2481811	0.21656564	2.7462686	21	11 4.6	21.3
427436 2001 DK_{55}	18.7	X	359.70771	11.22563	66.63314	0.57727	0.1935591	0.28346991	2.2950813	21	—	—
427437 2001 FN_{7}	18.0	X	330.26396	28.98794	92.55295	3.74456	0.1422021	0.28118436	2.3075012	21	—	—
427438 2001 FQ_{40}	16.7	X	144.69799	36.41281	174.50435	8.38604	0.2373905	0.21624695	2.7489661	21	10 17.6	21.5
427439 2001 FP_{210}	17.7	X	217.93375	201.26850	185.03379	1.87272	0.0805006	0.20347428	2.8628354	21	5 10.2	21.9
427440 2001 OW_{12}	17.1	X	74.87161	33.78013	317.89944	4.76235	0.2166570	0.26206491	2.4184111	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
427441 2001 OU_{44}	17.1	X	113.65212	328.24894	353.67511	7.65131	0.1958628	0.26360679	2.4089714	21	—	—
427442 2001 PA_{41}	16.5	X	279.65529	103.82685	299.04032	10.69832	0.2673777	0.24163663	2.5528631	21	7 17.8	19.7
427443 2001 QV_{61}	16.8	X	113.73571	340.52910	332.93508	16.53470	0.2373957	0.26224787	2.4172862	21	—	—
427444 2001 QD_{87}	16.8	X	48.89529	42.86302	308.87906	12.36480	0.1900522	0.25547354	2.4598319	21	—	—
427445 2001 QA_{110}	15.8	X	230.21880	337.32283	350.97480	15.49633	0.2110265	0.18067970	3.0988209	21	3 8.9	20.9
427446 2001 QN_{189}	16.9	X	50.74274	56.26339	278.20628	14.31135	0.2374353	0.25478901	2.4642358	21	12 27.4	20.4
427447 2001 RU_{62}	15.8	X	163.02170	5.20971	13.02372	14.00353	0.2476003	0.17470297	3.1690994	21	3 18.5	21.2
427448 2001 RJ_{127}	16.8	X	114.66636	310.09503	6.09223	11.99583	0.2811305	0.26199509	2.4188408	21	—	—
427449 2001 RC_{132}	15.6	X	232.79602	188.84912	167.51440	17.98557	0.1605727	0.18210518	3.0826285	21	4 18.0	20.7
427450 2001 SC_{6}	16.2	X	263.75453	144.53024	176.39622	10.39256	0.1140931	0.18322718	3.0700312	21	4 8.3	20.7
427451 2001 SL_{13}	16.3	X	199.81010	202.27202	176.98618	21.58967	0.2245106	0.17969768	3.1101003	21	4 14.7	21.8
427452 2001 SD_{15}	16.9	X	203.42157	71.06452	359.10217	29.29539	0.3094204	0.23313278	2.6145713	21	6 4.9	22.3
427453 2001 SS_{103}	15.9	X	206.21862	12.71015	355.25691	8.75500	0.0769649	0.17907562	3.1172987	21	4 4.8	20.8
427454 2001 SZ_{185}	16.3	X	151.64043	245.91125	170.00106	10.30325	0.2279708	0.17722560	3.1389549	21	4 20.5	21.6
427455 2001 SM_{201}	17.6	X	255.00102	57.03594	3.38249	9.20197	0.1651170	0.24066022	2.5597635	21	7 28.9	21.3
427456 2001 SQ_{202}	17.4	X	190.00224	242.07746	7.85264	4.33524	0.2189633	0.26372680	2.4082406	21	—	—
427457 2001 SO_{212}	15.7	X	169.98230	224.01354	179.67118	27.27245	0.1724378	0.17730654	3.1379996	21	4 18.7	21.0
427458 2001 SL_{250}	16.8	X	209.18797	61.00646	24.33825	31.00584	0.2258106	0.23426514	2.6061392	21	7 11.0	21.9
427459 2001 SE_{259}	15.8	X	142.17507	11.21317	356.26258	13.58968	0.2076231	0.17182957	3.2043315	21	2 16.3	21.0
427460 2001 SP_{299}	15.9	X	148.03860	91.47670	339.03061	8.85692	0.0759673	0.17912082	3.1167742	21	4 17.4	20.6
427461 2001 TT_{47}	17.3	X	138.97688	203.05247	104.02787	7.43327	0.2221197	0.26147502	2.4220470	21	—	—
427462 2001 TW_{132}	16.8	X	148.63439	18.38461	302.39468	8.78316	0.2719983	0.26579477	2.3957331	21	—	—
427463 2001 TO_{219}	17.0	X	68.98188	38.08442	304.16391	5.13507	0.1469620	0.25572243	2.4582356	21	—	—
427464 2001 UK_{57}	17.8	X	268.14877	39.86045	20.24928	9.36643	0.2276372	0.24003643	2.5641964	21	8 5.3	21.4
427465 2001 UQ_{127}	17.3	X	268.22680	354.64461	50.70593	12.68885	0.2420006	0.23797842	2.5789583	21	7 11.8	21.2
427466 2001 US_{128}	15.8	X	163.63921	24.95383	14.20844	17.94431	0.2272119	0.17623992	3.1506478	21	4 7.4	21.1
427467 2001 UA_{201}	16.4	X	154.61601	176.52500	226.26130	6.50675	0.1574432	0.17354722	3.1831537	21	3 30.5	21.5
427468 2001 UW_{227}	16.2	X	142.83946	357.77224	7.43325	3.61981	0.1465678	0.16825734	3.2495262	21	2 6.4	21.1
427469 2001 VB_{6}	16.8	X	193.16351	252.59110	222.27802	12.26788	0.2187541	0.23374037	2.6100384	21	7 26.9	21.5
427470 2001 VB_{38}	17.7	X	253.75891	160.48688	244.88266	2.93139	0.3130870	0.23553915	2.5967331	21	6 17.9	21.9
427471 2001 VC_{91}	16.4	X	226.04620	306.86291	86.04455	14.44892	0.2662017	0.23090403	2.6313687	21	5 17.9	21.1
427472 2001 VG_{115}	16.4	X	352.26883	115.33072	254.13759	7.99536	0.1325625	0.24378974	2.5378100	21	10 28.0	19.1
427473 2001 VK_{133}	18.0	X	90.37232	276.01497	101.56091	6.24066	0.0090320	0.31093874	2.1578413	21	—	—
427474 2001 WR_{68}	15.9	X	199.78596	294.05635	61.45982	12.75332	0.0991068	0.17259702	3.1948258	21	3 23.4	21.0
427475 2001 WT_{68}	17.9	X	243.85760	230.92759	216.42619	5.75980	0.2654352	0.23726989	2.5840900	21	8 4.0	22.0
427476 2001 WB_{75}	17.9	X	295.98707	186.41678	230.21563	8.33225	0.1503534	0.24225882	2.5484903	21	9 16.7	20.9
427477 2001 XH_{4}	16.8	X	207.19333	76.69164	63.92496	29.92829	0.2704378	0.23685797	2.5870851	21	9 29.1	21.9
427478 2001 XC_{54}	17.3	X	294.07164	306.81833	85.60232	5.71340	0.2547969	0.23885618	2.5726363	21	7 26.6	20.2
427479 2001 XG_{61}	17.0	X	296.16560	297.55674	91.44274	9.81289	0.1709760	0.23766895	2.5811966	21	8 10.3	20.0
427480 2001 XC_{96}	17.2	X	274.57767	332.52063	73.74553	6.87214	0.2626442	0.23732028	2.5837242	21	7 17.2	20.7
427481 2001 XE_{114}	17.5	X	260.29491	59.13160	351.68302	3.47727	0.3335500	0.23568805	2.5956393	21	6 28.8	21.7
427482 2001 XH_{134}	17.0	X	200.53308	187.27265	253.72969	13.97535	0.1552688	0.23016218	2.6370199	21	6 25.6	21.2
427483 2001 XA_{145}	17.2	X	228.10224	135.55534	250.92723	11.06804	0.3052909	0.22961721	2.6411907	21	5 5.5	22.1
427484 2001 XT_{149}	17.1	X	262.62424	347.28365	84.68958	10.95565	0.1776720	0.23690079	2.5867734	21	8 22.1	20.8
427485 2001 XP_{206}	17.0	X	283.20735	333.11317	100.39026	10.18358	0.1805727	0.24056330	2.5604510	21	9 24.0	20.2
427486 2001 XQ_{223}	16.6	X	217.65661	173.54736	262.41904	12.08104	0.0913426	0.23263226	2.6183202	21	7 9.8	20.5
427487 2002 AY_{35}	17.0	X	200.28773	123.00824	288.60133	6.92660	0.1900700	0.22514076	2.6760854	21	5 18.2	21.5
427488 2002 AZ_{42}	16.7	X	145.98216	21.82128	128.46458	7.50790	0.1007211	0.22756889	2.6570157	21	7 30.1	20.6
427489 2002 AW_{109}	17.0	X	240.47754	331.65370	120.79581	5.06075	0.2036889	0.23296067	2.6158589	21	8 16.5	20.8
427490 2002 AG_{145}	16.7	X	214.71315	212.79656	296.29978	16.89490	0.0982785	0.23628127	2.5912930	21	10 1.5	21.0
427491 2002 AW_{185}	17.6	X	148.53406	110.70897	22.69606	4.08459	0.2683746	0.22422008	2.6834060	21	7 19.9	22.3
427492 2002 AP_{203}	16.9	X	218.66461	163.32494	309.08226	12.07816	0.1785299	0.23014793	2.6371287	21	8 19.4	21.1
427493 2002 BN_{20}	15.6	X	202.12589	253.08112	238.87848	27.76462	0.3396666	0.23183127	2.6243477	21	8 11.1	21.1
427494 2002 BK_{26}	18.0	X	81.90656	82.03580	329.12929	24.31006	0.1440901	0.45877910	1.6649466	21	—	—
427495 2002 BN_{30}	16.9	X	221.98599	58.15679	26.07497	12.86272	0.2361972	0.23045443	2.6347900	21	7 18.9	21.5
427496 2002 BF_{32}	17.2	X	224.41880	260.66852	239.82453	11.86741	0.1994954	0.23703391	2.5858048	21	9 25.9	21.4
427497 2002 CK_{14}	17.7	X	276.12692	257.69163	143.35183	21.00432	0.1110783	0.38178680	1.8818663	21	8 11.7	19.1
427498 2002 CN_{43}	17.8	X	52.91999	242.30836	318.55622	19.26131	0.0159635	0.37293320	1.9115340	21	5 8.4	20.2
427499 2002 CZ_{58}	19.2	X	22.90794	88.22039	339.28311	18.83460	0.4640653	0.30434876	2.1888787	21	—	—
427500 2002 CJ_{69}	16.9	X	183.33254	29.53312	128.13156	14.32217	0.1926590	0.23115356	2.6294746	21	9 18.5	21.4
427501 2002 CQ_{138}	17.0	X	201.31012	225.17197	263.49096	5.56214	0.2462164	0.23041542	2.6350874	21	8 19.9	21.6
427502 2002 CS_{151}	16.7	X	210.19105	344.27654	146.84246	12.60011	0.1265783	0.22970596	2.6405104	21	9 12.1	20.7
427503 2002 CO_{157}	16.5	X	76.50353	86.88434	137.78895	13.79576	0.1330122	0.22332622	2.6905614	21	8 20.3	20.1
427504 2002 CD_{158}	17.1	X	273.48756	324.15920	132.54622	9.25178	0.1566132	0.23791750	2.5793986	21	10 13.4	20.4
427505 2002 CL_{159}	17.9	X	170.82259	172.47992	337.04898	20.83625	0.0777622	0.37912014	1.8906805	21	9 2.8	20.0
427506 2002 CR_{162}	17.0	X	231.93772	124.99684	24.94124	4.29546	0.1704473	0.23729610	2.5838997	21	10 23.4	20.5
427507 2002 DH_{5}	10.1	X	80.50349	327.51859	157.11589	22.47057	0.3634731	0.00953627	22.0233680	21	5 30.6	23.9
427508 2002 DK_{16}	16.8	X	253.28602	281.88374	150.05878	13.85718	0.2453357	0.23150438	2.6268176	21	7 27.7	20.8
427509 2002 DA_{19}	17.8	X	237.05824	65.30982	359.78339	19.99886	0.1001919	0.37834674	1.8932562	21	7 31.9	20.3
427510 2002 ES_{6}	17.2	X	38.10606	130.56515	180.44216	5.13650	0.0454709	0.22736644	2.6585927	21	10 9.6	20.6
427511 2002 EA_{35}	16.6	X	189.12088	184.81032	14.42845	13.60027	0.0967514	0.23438606	2.6052428	21	11 11.6	20.7
427512 2002 EZ_{104}	17.3	X	169.96550	90.43677	86.67446	5.06162	0.2049509	0.22961388	2.6412162	21	9 29.1	21.8
427513 2002 EO_{113}	16.5	X	106.72817	212.51974	4.70046	13.16691	0.1081581	0.22412449	2.6841689	21	9 14.3	20.4
427514 2002 EV_{114}	17.3	X	165.28795	206.51620	339.36824	3.22726	0.1173178	0.22892171	2.6465376	21	10 3.1	21.3
427515 2002 FE_{14}	17.6	X	282.80916	236.24523	163.91818	22.37087	0.1299337	0.38151319	1.8827660	21	8 17.4	19.1
427516 2002 GZ_{1}	17.9	X	47.12820	251.23006	15.60553	21.23399	0.0754318	0.37519470	1.9038450	21	9 19.5	19.7
427517 2002 GK_{4}	17.5	X	87.87202	206.52210	22.64228	22.12405	0.0501102	0.37442924	1.9064388	21	9 21.2	19.7
427518 2002 GX_{9}	17.6	X	33.39292	277.82758	8.99589	20.44425	0.0578504	0.37541003	1.9031169	21	9 21.7	19.2
427519 2002 GF_{62}	16.9	X	115.32730	188.53924	32.35528	14.47874	0.1915165	0.22274383	2.6952492	21	10 6.2	21.3
427520 2002 GT_{134}	17.1	X	137.42438	258.17189	1.53149	5.36592	0.1941276	0.23071471	2.6328080	21	12 6.5	21.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
427521 2002 JK_{20}	16.2	X	91.13014	212.29765	79.55926	11.59527	0.4102316	0.22413097	2.6841172	21	12 19.1	21.3
427522 2002 JJ_{108}	16.8	X	168.96226	83.48486	127.24016	13.56702	0.2163968	0.22975782	2.6401130	21	11 9.5	21.5
427523 2002 JQ_{137}	17.6	X	225.85450	326.29451	47.96585	21.58812	0.0816769	0.36137735	1.9520702	21	4 25.0	20.0
427524 2002 JE_{141}	17.3	X	78.84582	53.40965	179.62873	7.84051	0.2713886	0.21680408	2.7442547	21	9 20.3	21.5
427525 2002 NB_{1}	18.5	X	263.16154	219.63465	148.59833	23.37013	0.0943098	0.35761286	1.9657455	21	6 5.5	21.4
427526 2002 NF_{31}	17.1	X	178.89550	134.00428	164.99190	22.54128	0.2108573	0.28802543	2.2708171	21	—	—
427527 2002 NP_{65}	16.7	X	183.75938	357.66197	35.45887	2.23636	0.2346354	0.19284556	2.9670824	21	4 15.9	22.0
427528 2002 OL_{7}	16.1	X	289.99605	61.63251	274.31817	10.00457	0.1591993	0.19955580	2.9001901	21	5 18.1	20.1
427529 2002 OY_{33}	16.5	X	13.19079	12.13630	294.60171	8.74206	0.2359017	0.20951132	2.8075730	21	9 9.7	19.4
427530 2002 PM_{4}	17.2	X	183.39323	184.69752	142.72760	28.21771	0.2123088	0.28859410	2.2678331	21	1 17.1	21.0
427531 2002 PG_{173}	17.8	X	266.68440	84.22462	150.63119	22.37142	0.1892363	0.28958216	2.2626715	21	—	—
427532 2002 PJ_{188}	16.7	X	32.78361	333.19143	319.62285	7.02851	0.2520272	0.21192002	2.7862584	21	10 2.2	20.0
427533 2002 QM_{16}	16.4	X	149.75830	47.36963	315.58569	10.44001	0.3393395	0.18122768	3.0925711	21	2 20.2	21.9
427534 2002 QL_{57}	16.4	X	252.66292	23.71607	324.98147	9.92167	0.1330676	0.19568528	2.9383077	21	4 21.4	21.1
427535 2002 QW_{59}	16.8	X	75.63302	348.56753	285.67134	7.14105	0.1870867	0.21414448	2.7669297	21	10 24.9	21.0
427536 2002 QT_{63}	18.1	X	343.41209	228.69571	148.85165	9.76473	0.2249996	0.26318204	2.4115626	21	11 9.9	20.0
427537 2002 QV_{119}	17.7	X	245.53798	89.59686	133.61379	3.93696	0.0896170	0.28266204	2.2994522	21	—	—
427538 2002 QK_{135}	16.6	X	11.01586	270.49739	4.05474	14.47680	0.1315373	0.20337549	2.8637623	21	7 18.5	20.1
427539 2002 QN_{137}	16.3	X	268.18183	218.66425	145.38107	18.55318	0.1389480	0.20093388	2.8869146	21	6 4.6	20.9
427540 2002 QO_{139}	16.4	X	306.93381	354.95799	312.23417	10.54837	0.0864438	0.19900850	2.9055050	21	5 12.3	20.5
427541 2002 RX_{28}	16.2	X	219.77784	151.82332	215.12899	13.01350	0.1864143	0.19299005	2.9656013	21	4 12.9	21.2
427542 2002 RC_{167}	16.0	X	208.20809	32.63879	357.34127	8.38104	0.0781511	0.19261849	2.9694138	21	5 1.8	20.6
427543 2002 RR_{200}	17.7	X	357.05053	233.06828	131.77782	6.14654	0.2719706	0.26281843	2.4137864	21	11 27.7	19.6
427544 2002 RZ_{235}	18.1	X	150.20364	322.48877	324.92849	3.31461	0.2187227	0.27824452	2.3237263	21	—	—
427545 2002 RB_{261}	17.4	X	319.14942	289.44340	11.99863	20.13042	0.0620910	0.35523156	1.9745207	21	5 8.8	19.6
427546 2002 RB_{272}	18.3	X	25.16926	176.96158	180.34608	1.49398	0.1544675	0.26744885	2.3858450	21	12 15.9	21.0
427547 2002 SJ_{4}	17.6	X	286.66484	94.07370	288.71706	14.38683	0.3211040	0.25354066	2.4723179	21	6 21.3	21.0
427548 2002 SO_{32}	17.6	X	328.77194	87.06558	290.04185	1.06645	0.2318531	0.25857341	2.4401329	21	9 22.1	19.3
427549 2002 TQ_{11}	16.3	X	91.18350	47.65275	5.12710	27.45488	0.3848782	0.17554576	3.1589481	21	3 14.2	20.9
427550 2002 TZ_{104}	17.8	X	332.16083	96.52112	311.99735	2.10446	0.1974933	0.26208014	2.4183174	21	11 25.2	19.5
427551 2002 TM_{204}	17.8	X	357.92419	263.16313	112.34303	5.75220	0.2409561	0.26289282	2.4133310	21	12 9.7	19.9
427552 2002 TQ_{213}	16.4	X	238.98666	338.18471	23.77958	10.98369	0.1809034	0.19162540	2.9796643	21	4 23.9	21.3
427553 2002 TM_{334}	16.7	X	194.03732	198.48062	172.56944	10.21234	0.0682417	0.18619893	3.0372783	21	3 29.0	21.2
427554 2002 TB_{339}	17.8	X	184.12709	214.79561	85.65328	3.60280	0.1791415	0.28160975	2.3051769	21	—	—
427555 2002 TQ_{370}	16.4	X	146.48854	14.85048	79.42724	15.64030	0.1238279	0.18657326	3.0332144	21	5 24.1	21.2
427556 2002 UF_{25}	17.0	X	109.47051	354.15817	351.30899	6.48325	0.1426835	0.27461765	2.3441411	21	—	—
427557 2002 UX_{53}	16.7	X	141.07541	258.05841	123.62510	5.80222	0.1877927	0.17907557	3.1172992	21	2 26.4	21.5
427558 2002 UA_{60}	16.3	X	304.08712	203.95426	68.43891	15.93245	0.1190331	0.18703373	3.0282340	21	4 2.3	20.7
427559 2002 UG_{73}	16.8	X	246.05990	320.61614	33.23032	10.58610	0.1536548	0.19029340	2.9935527	21	4 24.0	21.5
427560 2002 VA_{47}	17.6	X	3.01279	333.32208	72.68082	8.38095	0.1582049	0.26437242	2.4043182	21	—	—
427561 2002 VW_{66}	17.6	X	335.61006	1.17911	51.28218	9.34783	0.2354218	0.26092343	2.4254593	21	12 12.6	19.2
427562 2002 VB_{78}	16.5	X	183.11077	248.25347	117.27591	5.06730	0.3190797	0.18291940	3.0734739	21	3 18.9	22.1
427563 2002 VH_{117}	16.1	X	188.42735	6.51182	11.86988	11.00697	0.2953485	0.18456689	3.0551569	21	4 3.1	21.7
427564 2002 VD_{146}	16.5	X	98.52357	282.34672	202.14678	11.52895	0.2189260	0.18071242	3.0984469	21	5 21.3	21.1
427565 2002 WA_{22}	16.4	X	189.18377	153.46402	239.20834	14.82777	0.2175831	0.18453075	3.0555558	21	4 17.2	21.7
427566 2002 WR_{24}	16.0	X	128.60369	49.24797	57.96361	11.77007	0.0507857	0.18392023	3.0623140	21	5 12.2	20.4
427567 2003 AG_{53}	15.9	X	126.76563	355.44986	109.54770	16.88346	0.2313201	0.17766807	3.1337412	21	5 29.5	21.2
427568 2003 BG_{4}	15.9	X	23.17401	273.58276	282.58738	7.99953	0.0204803	0.17288231	3.1913101	21	4 12.2	20.5
427569 2003 CR_{25}	16.1	X	33.85755	138.01661	352.52750	17.49452	0.2807370	0.16353870	3.3117359	21	2 25.5	19.2
427570 2003 EW_{31}	16.9	X	197.25597	289.24075	192.44994	4.45727	0.2180262	0.24084056	2.5584855	21	8 10.6	21.3
427571 2003 EB_{43}	17.5	X	123.52741	126.79361	112.57178	5.24307	0.2271295	0.23909925	2.5708924	21	11 6.0	21.9
427572 2003 EW_{62}	17.3	X	160.46355	27.91555	181.29153	15.24537	0.0184925	0.24354176	2.5395324	21	11 3.5	20.9
427573 2003 FO_{16}	16.5	X	127.49799	99.35407	75.63950	8.14504	0.1495400	0.23381565	2.6094781	21	8 18.4	20.6
427574 2003 FY_{52}	17.0	X	117.11310	190.41100	53.79005	8.89149	0.3014768	0.23830183	2.5766245	21	11 8.5	21.6
427575 2003 FX_{132}	17.5	X	155.70030	180.79240	22.82983	5.19323	0.1300704	0.24012397	2.5635731	21	10 17.7	21.4
427576 2003 OK_{15}	16.4	X	41.30863	17.90157	261.13350	12.79512	0.2246397	0.22261381	2.6962985	21	9 20.2	20.0
427577 2003 OS_{18}	16.0	X	288.27493	50.17077	298.71396	12.01821	0.1990156	0.21198437	2.7856946	21	5 25.9	20.1
427578 2003 QT_{4}	16.9	X	305.66310	9.19346	301.74737	8.10728	0.1526311	0.20991501	2.8039723	21	5 4.9	20.8
427579 2003 QY_{14}	16.7	X	291.88300	35.74727	290.95132	6.53487	0.2210613	0.20949699	2.8077010	21	4 27.2	20.7
427580 2003 QC_{29}	17.7	X	113.28782	83.91595	163.06745	8.67142	0.4471468	0.23170368	2.6253110	21	11 15.8	23.0
427581 2003 QB_{92}	7.9	X	164.87072	65.01355	119.95395	3.48475	0.0868561	0.00473856	35.1052427	21	9 16.6	23.7
427582 2003 QF_{93}	17.4	X	39.07902	308.41102	60.90059	8.75532	0.2280400	0.28451499	2.2894577	21	—	—
427583 2003 QK_{103}	17.6	X	23.11990	225.96819	139.22945	10.75228	0.2821991	0.28145439	2.3060251	21	—	—
427584 2003 RK_{11}	17.9	X	70.82159	45.25502	317.92456	9.63181	0.2797596	0.28869920	2.2672826	21	—	—
427585 2003 RB_{20}	16.7	X	67.17200	110.16128	175.00199	11.88611	0.1773223	0.22425484	2.6831287	21	11 3.8	20.6
427586 2003 SO_{34}	18.3	X	209.16939	265.49405	19.89404	3.20357	0.1557058	0.30019849	2.2090068	21	—	—
427587 2003 SG_{50}	17.9	X	0.36366	148.09838	233.52282	4.44166	0.2346327	0.27986011	2.3147746	21	12 27.0	20.0
427588 2003 SF_{67}	17.3	X	15.02555	65.32563	324.18357	6.46545	0.1168742	0.28343916	2.2952473	21	—	—
427589 2003 SU_{74}	17.1	X	219.10704	51.28490	345.39873	5.56638	0.0689209	0.20458270	2.8524855	21	5 23.4	21.4
427590 2003 SW_{75}	16.9	X	201.82670	5.29255	6.12645	7.63175	0.2912300	0.19879196	2.9076146	21	4 2.7	22.2
427591 2003 SQ_{92}	18.2	X	50.05441	40.32824	342.81590	2.21040	0.1967416	0.28646304	2.2790664	21	—	—
427592 2003 SC_{116}	17.7	X	184.24207	26.43177	317.97906	2.82796	0.2116837	0.30363619	2.1923019	21	2 5.3	20.8
427593 2003 SU_{116}	17.6	X	33.61985	280.85992	163.80109	5.08428	0.0836890	0.29460624	2.2368735	21	—	—
427594 2003 SD_{122}	16.2	X	240.42917	32.31133	326.67081	9.77354	0.1047736	0.20478585	2.8505987	21	4 23.3	20.7
427595 2003 SD_{130}	16.1	X	267.29782	83.85537	345.60738	21.24192	0.0781319	0.21643843	2.7473446	21	9 4.8	19.6
427596 2003 SP_{137}	18.0	X	58.49212	276.46133	15.51014	20.57622	0.0442486	0.38478063	1.8720923	21	10 29.2	19.9
427597 2003 SF_{166}	18.6	X	19.75301	223.45169	160.62564	3.72756	0.2591837	0.28314604	2.2968311	21	—	—
427598 2003 SM_{178}	18.1	X	46.35522	198.72090	164.35344	5.13554	0.1565254	0.28399716	2.2922398	21	—	—
427599 2003 SO_{179}	17.5	X	86.20388	311.82729	35.77563	7.05504	0.2008047	0.28874757	2.2670294	21	—	—
427600 2003 SZ_{203}	18.2	X	88.63380	177.02932	183.15768	0.47235	0.2321592	0.29037221	2.2585655	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
427601 2003 SC_{208}	18.3	X	30.50157	42.96799	16.27641	2.84667	0.2457499	0.28586260	2.2822567	21	—	—
427602 2003 SF_{219}	17.5	X	18.59259	247.47762	177.26152	22.49181	0.3211436	0.28525402	2.2855016	21	—	—
427603 2003 SV_{219}	18.4	X	12.21938	155.20923	177.10225	21.67890	0.0849781	0.38814928	1.8612449	21	11 7.3	20.2
427604 2003 SB_{244}	17.9	X	21.66791	230.62824	184.77225	2.85884	0.1836476	0.28466107	2.2886743	21	—	—
427605 2003 SA_{257}	16.4	X	296.21810	355.89895	352.46639	6.78627	0.1706331	0.21146556	2.7902489	21	6 10.4	20.1
427606 2003 SR_{272}	17.7	X	104.76716	348.10655	342.09666	9.18269	0.1786394	0.28965121	2.2623119	21	—	—
427607 2003 SO_{280}	18.0	X	69.72864	44.01277	342.76999	5.41114	0.1802255	0.29055811	2.2576020	21	—	—
427608 2003 SC_{285}	16.5	X	303.47036	138.69831	192.91349	20.49931	0.1988676	0.21004812	2.8027876	21	5 26.9	20.4
427609 2003 SX_{301}	18.1	X	48.35215	91.03479	327.49400	7.49709	0.2065847	0.29035775	2.2586404	21	—	—
427610 2003 SQ_{353}	18.2	X	342.24600	213.36574	184.63327	4.16703	0.2119887	0.27770978	2.3267082	21	12 10.7	19.9
427611 2003 SA_{401}	17.6	X	334.14433	314.34153	182.07135	23.12493	0.2161957	0.28625167	2.2801882	21	—	—
427612 2003 SQ_{408}	18.8	X	355.14665	100.27757	330.28368	4.60765	0.2342103	0.28407853	2.2918021	21	—	—
427613 2003 SR_{415}	17.1	X	256.30931	323.09482	25.93599	9.61811	0.1957536	0.20445969	2.8536295	21	4 22.7	21.6
427614 2003 SR_{422}	7.1	X	253.01029	66.61939	99.74657	23.94837	0.0507401	0.00387421	40.1495289	21	11 23.1	23.2
427615 2003 SK_{429}	17.2	X	299.53477	305.23957	69.44762	1.60606	0.0897351	0.21324390	2.7747145	21	8 4.8	20.5
427616 2003 SP_{429}	16.6	X	134.54091	47.87098	34.64515	10.04504	0.1021800	0.19511513	2.9440290	21	4 22.6	21.0
427617 2003 SL_{433}	16.2	X	179.74712	333.07964	64.08985	10.91244	0.1165593	0.19709347	2.9242953	21	4 17.9	20.8
427618 2003 TP_{20}	17.1	X	157.22660	61.69182	282.72544	7.81095	0.2258419	0.29902202	2.2147971	21	1 12.3	20.2
427619 2003 TL_{47}	18.1	X	146.30256	336.21705	353.90448	5.37339	0.1819453	0.29488618	2.2354576	21	—	—
427620 2003 UT_{6}	17.9	X	226.88423	38.45289	18.64933	19.70976	0.0958023	0.37136838	1.9168999	21	6 24.2	20.7
427621 2003 UN_{12}	18.3	X	259.99315	257.96294	40.49701	6.89723	0.4031326	0.31094495	2.1578125	21	2 5.4	22.5
427622 2003 UT_{25}	18.9	X	196.45815	282.97362	217.02061	21.54390	0.0405787	0.38105667	1.8842694	21	9 23.9	21.1
427623 2003 UZ_{45}	16.8	X	225.65867	332.98422	20.15994	10.15179	0.0463358	0.19715675	2.9236695	21	4 9.3	21.0
427624 2003 UN_{81}	17.2	X	46.44634	285.55735	80.96223	8.00799	0.2843935	0.28330004	2.2959986	21	—	—
427625 2003 UA_{85}	17.5	X	141.02646	343.32612	70.59894	2.37555	0.2222842	0.19136541	2.9823625	21	4 6.5	22.2
427626 2003 UB_{93}	16.6	X	131.37222	157.19784	214.87804	4.35381	0.1988121	0.18502846	3.0500739	21	2 3.6	21.4
427627 2003 UZ_{101}	16.0	X	123.25982	330.86087	37.81716	6.00067	0.1523843	0.18469446	3.0537499	21	1 19.6	20.5
427628 2003 UK_{110}	16.9	X	298.14076	287.14914	52.72331	9.64951	0.0941760	0.20546855	2.8442808	21	6 13.8	20.8
427629 2003 UF_{141}	17.5	X	330.34519	346.81274	23.32530	18.78547	0.0888892	0.38426411	1.8737695	21	10 15.5	18.2
427630 2003 UD_{144}	17.6	X	32.88487	102.20362	273.18249	1.54004	0.2375153	0.28106152	2.3081735	21	—	—
427631 2003 UO_{147}	17.5	X	32.79041	41.85495	324.07719	2.04941	0.2597175	0.28016712	2.3130833	21	—	—
427632 2003 UO_{173}	17.8	X	60.44240	215.25287	153.76602	1.72585	0.2330549	0.28462163	2.2888857	21	—	—
427633 2003 UM_{184}	17.7	X	113.85804	139.63964	232.07952	7.02603	0.1362679	0.29321770	2.2439298	21	—	—
427634 2003 UV_{184}	16.9	X	283.94289	132.13063	234.13718	5.68683	0.1236245	0.26299221	2.4127230	21	6 24.7	20.0
427635 2003 UJ_{204}	17.9	X	331.02724	196.56687	186.52589	2.49216	0.2215287	0.27284873	2.3542618	21	10 14.9	19.0
427636 2003 UF_{228}	17.5	X	60.22035	340.28343	54.15204	7.83609	0.2137573	0.28735170	2.2743652	21	—	—
427637 2003 UL_{229}	17.9	X	21.31685	128.90311	258.92530	4.20810	0.1800494	0.28075221	2.3098685	21	—	—
427638 2003 UQ_{231}	18.1	X	0.37526	71.70047	11.45209	6.37972	0.1721339	0.28463332	2.2888231	21	—	—
427639 2003 UU_{257}	17.9	X	27.89399	303.32514	64.27477	8.12604	0.2815518	0.28000101	2.3139980	21	—	—
427640 2003 UB_{348}	18.4	X	78.85470	336.36010	70.01738	2.43599	0.1511969	0.29373718	2.2412834	21	—	—
427641 2003 UH_{354}	18.5	X	343.72638	10.03287	63.05004	6.28356	0.1717021	0.28153090	2.3056073	21	—	—
427642 2003 UT_{379}	17.2	X	83.04664	191.59134	36.66215	6.07388	0.0535143	0.21319786	2.7751139	21	8 23.4	21.1
427643 2003 VF_{1}	17.3	X	10.60345	98.57653	46.98496	53.58581	0.3788015	0.45446692	1.6754618	21	—	—
427644 2003 VD_{10}	18.4	X	178.08670	230.15115	233.68672	18.94404	0.0995374	0.36949182	1.9233847	21	6 30.2	21.1
427645 2003 WA_{24}	16.3	X	270.81288	317.58029	99.53476	6.43805	0.0448156	0.20965093	2.8063264	21	8 29.9	20.1
427646 2003 WT_{62}	17.0	X	193.75305	17.39585	9.37565	9.58980	0.2697786	0.19671765	2.9280186	21	4 14.1	22.3
427647 2003 WZ_{66}	15.6	X	59.59317	220.95590	249.83063	13.79283	0.0895480	0.18249716	3.0782128	21	2 14.6	19.9
427648 2003 WZ_{96}	18.1	X	33.97963	325.30933	77.06802	4.47762	0.2046122	0.28363532	2.2941889	21	—	—
427649 2003 XP_{21}	15.6	X	20.91878	66.18121	86.77696	17.23021	0.2067141	0.17710956	3.1403258	21	2 22.8	19.2
427650 2003 YD_{1}	17.9	X	120.23457	228.58645	280.51315	17.55572	0.0686069	0.36418234	1.9420338	21	6 24.2	19.9
427651 2003 YR_{8}	17.4	X	5.16586	278.40838	95.07765	23.78931	0.1097790	0.38341073	1.8765489	21	12 31.4	18.9
427652 2003 YF_{10}	17.5	X	75.03762	44.91483	345.97329	5.60538	0.2480339	0.28770451	2.2725055	21	—	—
427653 2003 YH_{28}	16.7	X	107.01654	10.56580	87.64995	10.14908	0.2447570	0.18721812	3.0262453	21	5 3.0	21.4
427654 2003 YZ_{40}	17.3	X	309.57947	304.90841	100.68648	12.38538	0.2258936	0.26677036	2.3898887	21	10 2.2	19.5
427655 2003 YA_{43}	16.6	X	146.15006	168.18010	284.17998	7.24551	0.1080166	0.18940782	3.0028763	21	5 16.8	21.2
427656 2003 YX_{73}	17.9	X	352.51301	156.88013	272.42356	7.53993	0.2477411	0.27858853	2.3218129	21	—	—
427657 2003 YR_{144}	15.7	X	24.77637	42.98271	86.80867	28.19823	0.1280189	0.17514667	3.1637449	21	1 26.9	19.9
427658 2003 YC_{155}	16.7	X	87.76160	103.83318	340.68842	14.06976	0.3675929	0.18159972	3.0883459	21	4 3.3	21.3
427659 2003 YY_{157}	16.4	X	195.90426	76.28807	15.47985	5.97311	0.0277405	0.20326473	2.8648026	21	7 11.3	20.5
427660 2003 YD_{166}	17.1	X	124.91834	326.08297	113.69307	3.40534	0.1780620	0.18573016	3.0423867	21	4 19.3	21.7
427661 2004 BP_{8}	16.1	X	75.08817	219.54137	281.60962	7.15648	0.0754789	0.18346212	3.0674096	21	4 17.2	20.3
427662 2004 BN_{17}	17.3	X	315.32470	86.12376	68.18526	13.24481	0.0938759	0.28102438	2.3083769	21	—	—
427663 2004 BC_{25}	16.7	X	61.03623	44.49455	315.43719	23.96538	0.1603283	0.27688283	2.3313386	21	—	—
427664 2004 BU_{36}	16.6	X	119.76449	8.55492	52.89261	1.53774	0.1724675	0.18083402	3.0970576	21	3 21.8	21.2
427665 2004 BV_{60}	16.3	X	58.26352	214.65818	304.22641	9.55584	0.1178055	0.18330154	3.0692008	21	4 20.3	20.4
427666 2004 BJ_{63}	15.9	X	103.69970	110.51750	306.83635	9.55656	0.0749059	0.17708470	3.1406197	21	2 11.8	20.3
427667 2004 BF_{64}	18.5	X	332.65862	133.74619	327.18433	2.17766	0.1784501	0.27608441	2.3358312	21	—	—
427668 2004 BA_{79}	18.0	X	331.75935	102.60219	353.16719	1.97421	0.1617375	0.27463098	2.3440653	21	—	—
427669 2004 BE_{83}	17.6	X	278.98076	65.01917	101.37195	5.03283	0.0903575	0.27484815	2.3428303	21	—	—
427670 2004 BV_{130}	16.0	X	265.26634	358.07864	294.26811	11.99949	0.0454316	0.18080051	3.0974404	21	3 7.2	20.6
427671 2004 BR_{132}	16.2	X	348.64830	139.44017	131.56696	13.02091	0.0018082	0.19135482	2.9824725	21	6 6.8	20.5
427672 2004 BV_{137}	16.2	X	352.99204	152.18049	116.82010	10.02367	0.0424761	0.19021564	2.9943684	21	6 7.6	20.2
427673 2004 BG_{142}	16.4	X	26.23523	56.09877	135.09719	11.93451	0.0808950	0.18225939	3.0808894	21	4 19.8	20.5
427674 2004 CU_{20}	17.9	X	230.95476	192.98270	12.75449	2.26173	0.1526213	0.27181180	2.3602455	21	—	—
427675 2004 CP_{28}	16.4	X	120.32438	156.30250	317.50814	10.97038	0.1588781	0.18693949	3.0292516	21	5 20.0	21.2
427676 2004 CZ_{46}	17.8	X	251.19624	172.37135	358.37208	5.63798	0.1444005	0.26957828	2.3732643	21	12 24.8	20.5
427677 2004 CY_{60}	17.2	X	310.41733	15.81832	97.93541	8.81279	0.1190816	0.27200891	2.3591051	21	—	—
427678 2004 CT_{63}	16.0	X	47.83311	189.24936	7.21136	15.09283	0.1896105	0.18298912	3.0726933	21	6 4.3	20.0
427679 2004 CV_{71}	16.0	X	89.84240	2.45453	130.33180	18.70824	0.1338429	0.18166544	3.0876010	21	5 14.9	20.7
427680 2004 CD_{84}	18.0	X	254.89045	22.28022	163.37721	3.43446	0.1759537	0.27125453	2.3634770	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
427681 2004 CU_{108}	16.2	X	80.86670	201.49559	292.85812	7.68724	0.1848832	0.18081705	3.0972514	21	5 3.4	20.5
427682 2004 CN_{122}	16.2	X	7.07779	197.39995	335.84565	8.84675	0.0490275	0.17446529	3.1719770	21	2 24.6	20.5
427683 2004 CA_{128}	16.4	X	95.99424	123.29688	17.56428	11.33243	0.1102646	0.18225584	3.0809294	21	5 19.8	20.9
427684 2004 DH_{2}	20.2	X	82.98863	216.11778	157.30363	23.02108	0.4003033	1.07412416	0.9442777	21	—	—
427685 2004 DJ_{44}	16.2	X	359.98144	49.55879	169.04791	17.35218	0.2395444	0.17525548	3.1624352	21	4 3.4	19.4
427686 2004 DB_{52}	17.9	X	279.18400	134.28614	350.52101	4.45797	0.2376872	0.26787245	2.3833291	21	11 18.6	20.2
427687 2004 DB_{55}	16.2	X	179.91832	52.07666	331.57623	8.98706	0.0953610	0.18015030	3.1048889	21	3 26.6	21.2
427688 2004 ET	17.7	X	221.96580	180.23140	1.99897	2.00652	0.1444759	0.26354462	2.4093503	21	11 29.3	21.0
427689 2004 EB_{19}	16.1	X	4.99684	77.33240	127.36279	20.85998	0.2668461	0.17388236	3.1790622	21	3 30.3	19.5
427690 2004 EB_{36}	15.8	X	17.54833	225.37499	320.30708	15.33048	0.2116948	0.17515388	3.1636580	21	3 18.5	19.3
427691 2004 EW_{41}	16.1	X	65.15610	177.53628	342.34485	10.27394	0.1434045	0.17925424	3.1152275	21	5 6.5	20.3
427692 2004 EW_{46}	18.1	X	321.68228	322.97582	142.56923	1.84876	0.1432426	0.27029450	2.3690701	21	—	—
427693 2004 EH_{76}	15.8	X	60.39531	280.91093	168.67613	25.47234	0.2634960	0.17165309	3.2065275	21	2 17.6	19.5
427694 2004 ED_{87}	15.9	X	133.59553	267.89529	163.83232	15.79407	0.1086128	0.17859559	3.1228820	21	4 13.5	20.7
427695 Johnpazder	16.0	X	45.51235	234.52184	301.07222	9.50934	0.1116458	0.17987254	3.1080844	21	4 22.3	20.1
427696 2004 FJ_{17}	16.9	X	254.60935	21.21160	163.50126	10.67455	0.2046465	0.26785819	2.3834137	21	—	—
427697 2004 FL_{24}	15.7	X	73.56548	260.07144	266.01982	17.15951	0.2753425	0.18198024	3.0840392	21	6 20.0	19.9
427698 2004 FH_{30}	17.3	X	261.50460	115.13069	64.46792	22.65502	0.2431259	0.26827966	2.3809168	21	—	—
427699 2004 FR_{31}	15.9	X	31.15683	75.68170	154.85669	26.07474	0.1997911	0.17789260	3.1311038	21	6 28.2	20.0
427700 2004 FJ_{32}	16.6	X	282.64206	73.48178	83.58204	22.26888	0.2631440	0.26988228	2.3714818	21	—	—
427701 2004 FG_{38}	16.1	X	17.05416	241.54140	350.57620	15.10221	0.2450865	0.17780472	3.1321354	21	5 27.9	19.4
427702 2004 FV_{46}	17.4	X	171.02852	287.04370	295.18184	1.26048	0.1570746	0.25989923	2.4318272	21	11 25.5	21.1
427703 2004 FA_{58}	15.8	X	68.95316	259.28494	271.83582	11.09919	0.3065745	0.18151201	3.0893407	21	6 25.5	19.7
427704 2004 FH_{63}	15.4	X	8.44885	180.10442	20.25912	15.02839	0.0731454	0.17335419	3.1855163	21	4 2.4	19.5
427705 2004 FT_{66}	16.8	X	183.15604	161.98809	28.72734	6.51379	0.0632740	0.25853113	2.4403989	21	11 3.4	20.0
427706 2004 FL_{79}	16.6	X	252.03365	156.27213	182.60196	10.30539	0.0807174	0.17769563	3.1334172	21	4 21.8	21.2
427707 2004 FP_{96}	16.2	X	14.59668	57.80310	160.97272	27.38161	0.2314156	0.17692951	3.1424560	21	5 12.6	19.9
427708 2004 FZ_{102}	16.5	X	299.48592	280.16604	355.89178	9.20531	0.2011744	0.17348073	3.1839670	21	3 13.7	21.0
427709 2004 FH_{104}	18.2	X	278.71593	118.52821	23.68813	1.75639	0.1235970	0.26792429	2.3830217	21	—	—
427710 2004 FT_{118}	17.4	X	199.08086	56.80860	182.22773	8.24070	0.1633833	0.26459267	2.4029838	21	—	—
427711 2004 FP_{128}	16.4	X	44.31465	130.61779	107.34455	10.66504	0.3272353	0.18115332	3.0934174	21	8 23.4	20.2
427712 2004 FQ_{132}	16.8	X	13.57568	47.71189	155.33280	4.64188	0.1809829	0.17570555	3.1570326	21	4 12.7	20.2
427713 2004 FM_{140}	18.6	X	344.55358	306.61084	358.11747	19.12628	0.0854316	0.35857759	1.9622182	21	7 20.8	20.6
427714 2004 FH_{144}	15.8	X	69.91346	83.75959	99.00300	17.21003	0.2008628	0.18086626	3.0966896	21	6 25.8	19.8
427715 2004 FB_{152}	17.6	X	230.63660	58.05076	150.48644	3.06819	0.1148257	0.27057695	2.3674211	21	—	—
427716 2004 GW_{2}	16.2	X	54.41866	111.42110	57.02738	14.79146	0.0610567	0.17486516	3.1671395	21	4 28.9	20.4
427717 2004 GN_{33}	16.4	X	46.09260	334.95530	205.26462	8.34585	0.1947590	0.17622102	3.1508731	21	5 15.5	20.1
427718 2004 GY_{51}	17.9	X	255.87298	306.19284	189.18212	5.51956	0.1360237	0.26133514	2.4229113	21	11 13.6	20.7
427719 2004 GN_{66}	16.0	X	62.20760	135.77353	17.93714	9.83104	0.0528289	0.17457672	3.1706270	21	4 16.0	20.1
427720 2004 HP_{2}	17.6	X	91.22079	167.17607	69.92859	22.97563	0.0431091	0.36307351	1.9459858	21	10 12.2	20.3
427721 2004 HN_{32}	17.3	X	175.28213	159.16579	66.61882	8.68984	0.1089058	0.25933637	2.4353446	21	12 6.7	20.8
427722 2004 HJ_{39}	17.4	X	175.27019	4.92414	250.57844	2.10424	0.1658385	0.26546176	2.3977362	21	—	—
427723 2004 HW_{56}	15.8	X	39.52798	95.25893	91.25189	22.28062	0.1962837	0.17566428	3.1575270	21	5 18.7	19.7
427724 2004 JW_{31}	16.7	X	11.98088	110.87435	160.04571	17.40695	0.3392484	0.17809958	3.1286773	21	7 25.6	19.3
427725 2004 NZ_{3}	17.1	X	76.77633	227.77721	84.16331	13.58503	0.2185880	0.24530499	2.5273484	21	12 21.2	21.1
427726 2004 NJ_{5}	15.9	X	240.24587	8.31354	312.93972	21.90591	0.2447537	0.21354140	2.7721368	21	2 24.6	21.0
427727 2004 NF_{21}	17.0	X	214.11569	112.12711	250.41573	5.96005	0.3125791	0.21432927	2.7653391	21	3 28.4	22.2
427728 2004 PJ_{12}	16.8	X	22.17453	357.92341	329.00992	6.35050	0.1504027	0.23764678	2.5813572	21	10 20.2	19.8
427729 2004 PL_{18}	16.9	X	316.94937	193.89806	161.77432	8.42637	0.2115575	0.22965239	2.6409210	21	7 18.5	19.7
427730 2004 PO_{65}	17.0	X	244.70125	63.41517	317.09872	7.80999	0.2499709	0.21932114	2.7232178	21	5 13.6	21.7
427731 2004 PU_{79}	16.7	X	302.96845	15.80112	319.87191	16.66745	0.2185280	0.22458678	2.6804842	21	5 22.0	20.5
427732 2004 PN_{84}	17.0	X	87.23236	21.70889	290.04637	7.60674	0.2074265	0.24622799	2.5210286	21	12 29.9	21.1
427733 2004 PQ_{84}	16.6	X	337.07545	341.64030	5.55140	13.22464	0.2997285	0.22951523	2.6419730	21	8 21.0	18.4
427734 2004 QA_{13}	17.2	X	290.32131	306.02111	43.23615	6.81496	0.3067477	0.22448629	2.6812841	21	5 13.7	21.1
427735 2004 RO_{33}	16.7	X	326.80509	14.45275	3.82746	12.04874	0.1923151	0.23262809	2.6183515	21	9 19.2	19.0
427736 2004 RL_{41}	16.9	X	231.88882	49.91800	352.60182	14.28297	0.2224648	0.21999074	2.7176892	21	5 31.1	21.7
427737 2004 RE_{52}	17.1	X	39.21114	181.26818	157.91051	8.40908	0.1718677	0.23954246	2.5677203	21	12 8.8	20.6
427738 2004 RZ_{65}	16.5	X	252.32578	26.98033	350.72561	12.69993	0.2161276	0.21952542	2.7215282	21	5 18.2	21.0
427739 2004 RA_{71}	17.0	X	6.82161	18.44282	313.21407	8.06846	0.1124682	0.23345119	2.6121934	21	9 23.9	20.0
427740 2004 RA_{82}	16.5	X	35.31483	330.32084	5.31893	14.14073	0.1180992	0.23568358	2.5956721	21	11 13.7	20.0
427741 2004 RQ_{88}	16.4	X	32.89107	108.18330	225.09583	8.41620	0.1536019	0.24064483	2.5598726	21	11 19.0	19.5
427742 2004 RB_{96}	16.6	X	131.53863	295.53267	306.72808	12.69267	0.1304972	0.24222955	2.5486956	21	11 6.9	20.9
427743 2004 RV_{113}	16.5	X	285.17960	11.09573	340.93567	14.66504	0.1430069	0.22385351	2.6863346	21	6 2.0	20.5
427744 2004 RM_{125}	17.0	X	199.07318	89.95080	339.87400	12.57293	0.1900163	0.21833694	2.7313953	21	6 9.2	21.8
427745 2004 RE_{133}	17.2	X	66.36391	275.41827	355.94352	6.37992	0.1277895	0.23516005	2.5995231	21	10 6.7	20.6
427746 2004 RS_{157}	16.9	X	314.62520	65.65970	294.46104	7.99341	0.1445686	0.22782189	2.6550482	21	7 31.2	19.8
427747 2004 RM_{197}	16.8	X	300.86059	19.74856	339.89249	14.09705	0.2375895	0.22405721	2.6847062	21	6 23.4	20.4
427748 2004 RY_{289}	16.4	X	2.09600	357.68413	7.82610	18.35656	0.1354589	0.23542588	2.5975660	21	11 2.5	19.5
427749 2004 RM_{319}	16.5	X	305.25003	238.20664	170.24108	22.10458	0.0363958	0.23553907	2.5967337	21	10 9.7	19.9
427750 2004 RY_{324}	16.6	X	312.11291	47.49076	335.74290	8.36575	0.1570398	0.22783285	2.6549631	21	8 29.0	19.4
427751 2004 SD_{12}	16.6	X	21.26999	233.81784	101.97775	13.62937	0.1773687	0.23543847	2.5974734	21	11 12.4	19.8
427752 2004 SZ_{34}	17.4	X	212.00793	110.30663	299.12571	6.43711	0.1960472	0.21755708	2.7379188	21	5 26.0	22.0
427753 2004 SR_{36}	17.3	X	359.31639	45.08987	317.04545	7.25813	0.0975801	0.23613213	2.5923840	21	10 23.7	20.3
427754 2004 SY_{51}	16.4	X	305.75084	298.65997	73.25682	6.25906	0.3036626	0.22432228	2.6825908	21	7 6.4	19.3
427755 2004 SQ_{53}	17.0	X	204.90797	200.51512	193.55727	16.38998	0.2562733	0.21226430	2.7832448	21	5 3.1	22.0
427756 2004 TH_{3}	18.0	X	49.54162	47.50783	16.03798	7.51755	0.1894826	0.30769913	2.1729607	21	—	—
427757 2004 TV_{13}	16.4	X	268.79544	157.19083	241.49696	8.28825	0.1152311	0.22226425	2.6991248	21	7 18.5	20.2
427758 2004 TF_{40}	17.3	X	2.64418	116.51261	206.79041	1.54277	0.2106133	0.23007655	2.6376742	21	9 15.8	19.4
427759 2004 TC_{58}	16.8	X	269.68648	16.71104	11.37245	13.42448	0.1583390	0.22240214	2.6980091	21	7 2.4	20.9
427760 2004 TM_{61}	16.8	X	350.44193	187.28143	174.91709	7.98363	0.1951726	0.23290633	2.6162657	21	10 20.1	19.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
427761 2004 TU_{68}	16.6	X	226.51784	319.02521	39.50054	9.74068	0.2813941	0.21249771	2.7812064	21	4 6.7	21.5
427762 2004 TT_{106}	16.8	X	319.54103	7.98009	13.98036	2.21604	0.2228986	0.22949864	2.6421003	21	9 3.5	18.9
427763 2004 TJ_{138}	17.0	X	227.86116	86.07752	305.83127	7.07137	0.1795550	0.21573411	2.7533209	21	5 18.6	21.5
427764 2004 TP_{148}	17.5	X	300.64377	79.19863	323.62992	2.67352	0.0239961	0.22922837	2.6441767	21	9 22.1	21.0
427765 2004 TD_{149}	16.8	X	98.42889	195.78976	12.57509	14.21687	0.0756966	0.22328828	2.6908662	21	8 23.9	20.8
427766 2004 TE_{183}	16.5	X	306.15109	359.18046	351.89663	5.92791	0.0467478	0.22257071	2.6966466	21	7 20.2	20.0
427767 2004 TG_{183}	17.6	X	301.70060	129.54276	221.53000	5.35664	0.0698763	0.22213262	2.7001910	21	7 7.9	21.0
427768 2004 TR_{202}	16.3	X	195.37066	73.67400	38.43361	14.65338	0.0808669	0.21759220	2.7376242	21	8 9.4	20.7
427769 2004 TA_{256}	17.2	X	215.05363	271.03372	109.28551	9.26831	0.3175945	0.21359737	2.7716525	21	4 24.9	22.5
427770 2004 TA_{334}	16.9	X	237.54911	162.27681	226.41791	3.86008	0.0835015	0.21404904	2.7677521	21	6 3.4	21.0
427771 2004 VR_{1}	16.3	X	155.72906	345.33846	62.03385	12.08838	0.1460130	0.20456245	2.8526738	21	4 9.4	20.9
427772 2004 VK_{22}	15.9	X	224.50510	348.96277	55.45910	14.92810	0.1854743	0.21261633	2.7801718	21	5 31.2	20.5
427773 2004 VU_{98}	17.6	X	31.14318	301.70378	37.87743	3.00437	0.1375892	0.23393273	2.6086074	21	11 20.3	20.8
427774 2004 XZ_{3}	16.9	X	181.77435	31.74991	70.70966	11.63703	0.2207669	0.21167861	2.7883764	21	7 6.0	21.7
427775 2004 XN_{141}	16.4	X	216.07698	329.97621	109.31680	17.28485	0.1869850	0.21179929	2.7873171	21	7 7.4	20.8
427776 2004 YE_{36}	15.6	X	55.31106	168.70521	70.53471	16.26384	0.0930670	0.20211250	2.8756803	21	8 7.1	19.6
427777 2005 AC_{20}	16.1	X	221.98539	168.46918	278.72653	11.63206	0.1535259	0.21324186	2.7747322	21	7 23.6	20.6
427778 2005 BE	20.1	X	116.41809	168.70122	115.97051	31.19107	0.4211110	1.18614025	0.8838502	21	—	—
427779 2005 BF_{17}	17.8	X	16.38833	3.59399	124.75499	7.71693	0.0746791	0.30301739	2.1952855	21	—	—
427780 2005 CU_{29}	18.0	X	54.63709	291.87402	327.10003	16.65735	0.0466671	0.38812055	1.8613368	21	9 2.1	19.6
427781 2005 CJ_{32}	17.5	X	80.07336	153.36365	66.33467	2.02778	0.2080448	0.20192975	2.8774151	21	8 27.9	21.6
427782 2005 CO_{36}	17.7	X	285.11632	26.45908	111.46356	6.03365	0.0914261	0.28818953	2.2699550	21	—	—
427783 2005 EN_{37}	17.0	X	208.51658	324.54075	349.95153	10.09547	0.1356920	0.29935279	2.2131652	21	1 20.6	20.3
427784 2005 EL_{56}	18.2	X	262.60232	84.43829	172.08752	5.26169	0.1602500	0.29749590	2.2223650	21	—	—
427785 2005 EC_{83}	17.8	X	212.61922	245.41512	341.28439	5.98232	0.1520562	0.28406242	2.2918887	21	—	—
427786 2005 ER_{90}	17.5	X	311.69344	231.50693	334.19425	7.85317	0.1320814	0.29931181	2.2133673	21	—	—
427787 2005 ES_{162}	18.1	X	268.85494	231.05584	12.01967	4.61296	0.1022324	0.29600268	2.2298328	21	—	—
427788 2005 EU_{166}	17.7	X	197.21021	266.77954	347.04333	6.75424	0.0730910	0.28646279	2.2790678	21	—	—
427789 2005 EC_{182}	18.0	X	358.55694	46.68045	96.51276	2.35663	0.1573387	0.29910990	2.2143632	21	—	—
427790 2005 EE_{243}	16.9	X	75.16952	192.54814	10.09923	10.89102	0.0657089	0.19721649	2.9230791	21	7 10.2	21.1
427791 2005 EO_{245}	18.2	X	182.60707	93.27916	179.56494	5.33964	0.1308747	0.28605414	2.2812378	21	—	—
427792 2005 EN_{271}	16.6	X	92.69882	14.75877	186.39373	17.72703	0.1610012	0.19946938	2.9010278	21	8 7.8	21.1
427793 2005 ED_{327}	16.2	X	257.04655	285.53267	20.52441	10.39228	0.0716364	0.18315828	3.0708011	21	3 19.7	20.7
427794 2005 ES_{327}	15.9	X	103.88582	76.96518	27.13401	10.97547	0.0643188	0.18526783	3.0474462	21	4 10.1	20.1
427795 2005 FL	17.9	X	215.21892	306.39993	161.38939	22.72200	0.0460524	0.38744007	1.8635156	21	9 5.6	19.3
427796 2005 GK_{34}	18.4	X	221.43139	203.04908	63.43335	2.18768	0.1870648	0.28888671	2.2663014	21	—	—
427797 2005 GS_{48}	16.8	X	50.48951	170.38178	44.03364	3.99887	0.1191322	0.19187014	2.9771299	21	6 26.2	20.5
427798 2005 GJ_{58}	16.6	X	323.41632	37.64250	191.17778	8.36904	0.0097618	0.17961464	3.1110589	21	3 9.8	20.9
427799 2005 GX_{65}	15.6	X	313.52101	117.41713	135.60616	20.60267	0.2618075	0.17978244	3.1091228	21	2 22.4	19.9
427800 2005 GF_{76}	16.5	X	16.28577	172.11795	54.09542	12.23614	0.2958341	0.18610887	3.0382582	21	5 22.6	18.8
427801 2005 GP_{88}	17.1	X	92.64953	161.08094	4.49762	1.67533	0.1745950	0.19279277	2.9676241	21	6 28.3	21.3
427802 2005 GY_{101}	16.3	X	351.57920	218.22319	29.76198	8.85637	0.2978315	0.18458555	3.0549510	21	4 15.1	19.1
427803 2005 GG_{110}	18.5	X	246.13933	355.65036	217.99086	2.66107	0.1631885	0.28481455	2.2878520	21	—	—
427804 2005 GG_{113}	15.7	X	337.16512	185.86463	73.53382	13.43115	0.3215699	0.18274259	3.0754561	21	4 3.3	19.3
427805 2005 GS_{116}	16.4	X	307.00441	232.47201	25.00853	11.45305	0.0369139	0.18096074	3.0956116	21	3 25.0	20.7
427806 2005 GE_{127}	15.7	X	336.13495	154.87219	57.96202	18.65865	0.1597756	0.17839575	3.1252137	21	2 27.7	20.0
427807 2005 GH_{130}	18.1	X	289.81935	167.68823	40.50822	1.66225	0.1134553	0.29116384	2.2544698	21	—	—
427808 2005 GE_{142}	17.7	X	268.14801	346.14143	230.14122	3.97833	0.0966543	0.28999064	2.2605462	21	—	—
427809 2005 GG_{169}	16.4	X	0.50841	198.57649	30.46806	9.07968	0.0603864	0.18515577	3.0486756	21	4 24.7	20.4
427810 2005 GY_{169}	17.0	X	37.70255	189.02791	26.26906	9.38543	0.0887634	0.18930129	3.0040028	21	6 1.8	20.9
427811 2005 GT_{171}	15.6	X	49.56161	168.17953	78.92058	17.26172	0.2165473	0.19626188	2.9325500	21	8 31.8	19.6
427812 2005 GS_{179}	15.3	X	274.11172	149.98800	111.80430	28.75530	0.1880000	0.17338853	3.1850956	21	1 31.6	20.4
427813 2005 GC_{180}	17.5	X	102.18641	85.28656	110.37160	24.43226	0.1426604	0.38071139	1.8854085	21	8 27.7	20.1
427814 2005 GV_{189}	15.7	X	123.81353	237.98351	162.45072	15.75905	0.1007889	0.18404140	3.0609697	21	2 18.1	20.1
427815 2005 GS_{223}	18.0	X	284.37964	102.61587	102.20238	3.74029	0.1878141	0.29108689	2.2548671	21	—	—
427816 2005 GX_{225}	16.4	X	38.61645	34.63561	182.28598	2.89929	0.0999890	0.18890141	3.0082407	21	6 8.8	20.1
427817 2005 HD_{5}	17.7	X	183.68041	163.36052	120.46415	6.66852	0.1053019	0.28197403	2.3031911	21	—	—
427818 2005 HG_{6}	15.5	X	324.73473	118.76318	76.44300	22.73728	0.0746787	0.17059320	3.2197951	21	1 27.2	20.2
427819 2005 JG_{22}	17.4	X	199.18794	168.70366	89.50041	9.86928	0.2022175	0.28196575	2.3032362	21	—	—
427820 2005 JU_{24}	18.2	X	261.05561	21.64083	208.90868	3.77857	0.0858780	0.28875905	2.2669693	21	—	—
427821 2005 JG_{55}	17.6	X	245.15084	152.82407	99.43809	7.05912	0.1537713	0.28754400	2.2733511	21	—	—
427822 2005 JO_{64}	15.8	X	13.09161	295.47132	246.44844	16.92354	0.2299295	0.18226035	3.0808786	21	2 27.4	19.3
427823 2005 JV_{69}	16.0	X	177.49329	336.48474	49.74932	12.23955	0.1065392	0.17828745	3.1264791	21	4 4.6	21.0
427824 2005 JC_{78}	18.3	X	197.24125	205.21060	49.09513	5.59682	0.1067072	0.28195160	2.3033133	21	—	—
427825 2005 JD_{78}	15.9	X	81.33952	58.99862	42.13285	12.37973	0.1025649	0.17862172	3.1225773	21	3 19.6	20.2
427826 2005 JO_{80}	15.4	X	296.57190	158.48565	96.42075	28.04228	0.1118742	0.17396361	3.1780723	21	3 6.1	20.4
427827 2005 JT_{80}	15.4	X	314.25997	162.90274	97.74674	29.35418	0.1398335	0.17891620	3.1191501	21	4 6.4	20.3
427828 2005 JB_{100}	16.0	X	4.86953	99.22098	112.48997	9.47881	0.0117512	0.17969333	3.1101505	21	4 15.7	20.5
427829 2005 JD_{103}	16.3	X	320.66480	132.48950	117.21103	18.18490	0.1226476	0.17721234	3.1391116	21	3 26.4	20.8
427830 2005 JB_{108}	15.9	X	6.07850	70.56175	120.15666	14.74714	0.2177554	0.18054628	3.1003473	21	3 11.9	19.3
427831 2005 JQ_{108}	16.0	X	283.31319	141.08402	126.46538	28.25557	0.1843444	0.17425610	3.1745151	21	2 17.4	20.9
427832 2005 JO_{111}	17.4	X	209.86915	112.70877	155.14641	7.08051	0.1135446	0.28393000	2.2926013	21	—	—
427833 2005 JH_{112}	16.2	X	342.76879	23.84365	188.61632	10.53570	0.1571622	0.17742429	3.1366110	21	2 25.8	20.1
427834 2005 JY_{114}	16.4	X	316.23894	79.54834	197.19962	10.71168	0.1961598	0.18137626	3.0908819	21	4 4.4	20.5
427835 2005 JG_{120}	18.4	X	248.12973	55.90767	152.16538	3.65253	0.1663333	0.28305368	2.2973307	21	—	—
427836 2005 JN_{123}	16.2	X	206.15816	175.00595	240.37760	8.60000	0.0121663	0.18881298	3.0091799	21	6 6.5	20.3
427837 2005 JQ_{132}	17.6	X	107.40997	217.43024	92.32564	8.33161	0.1326008	0.27259817	2.3557042	21	—	—
427838 2005 JM_{145}	17.5	X	328.66995	111.60773	216.09676	20.45565	0.0993313	0.37295509	1.9114592	21	7 11.1	19.6
427839 2005 JU_{153}	16.4	X	355.22510	181.89445	86.82267	12.66435	0.0610592	0.18832286	3.0143987	21	6 9.1	20.2
427840 2005 LE_{4}	16.0	X	266.00009	82.75665	207.94412	14.46831	0.1854800	0.17409385	3.1764872	21	2 21.9	21.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
427841 2005 LD_{9}	16.4	X	318.16733	68.45866	217.95296	9.42493	0.0867303	0.18318192	3.0705369	21	5 6.0	20.3
427842 2005 LT_{11}	15.3	X	249.48094	73.81464	284.09501	14.90843	0.2354367	0.17403388	3.1772168	21	4 20.9	20.8
427843 2005 LN_{22}	18.3	X	239.53064	106.25648	154.50553	3.00089	0.2031880	0.28774531	2.2722906	21	—	—
427844 2005 LZ_{24}	17.7	X	211.78951	157.83957	86.55372	7.81035	0.0835636	0.28112061	2.3078501	21	—	—
427845 2005 LH_{52}	15.8	X	336.43559	310.57142	291.96433	25.50613	0.2412600	0.17441121	3.1726326	21	3 1.4	20.2
427846 2005 MN_{8}	15.8	X	292.06001	165.76214	100.69386	17.96789	0.1095580	0.17464633	3.1697845	21	3 12.8	20.6
427847 2005 ME_{18}	17.9	X	183.84597	128.92082	120.46487	6.09135	0.2029425	0.27237516	2.3569899	21	—	—
427848 2005 MC_{24}	17.6	X	206.35403	110.59412	123.63626	12.11827	0.1777464	0.27363845	2.3497300	21	—	—
427849 2005 MP_{30}	15.5	X	348.33520	359.99015	287.73440	18.24697	0.2142333	0.18182473	3.0857974	21	6 16.0	18.7
427850 2005 MQ_{30}	15.5	X	327.80240	6.24297	285.13532	16.59594	0.1359717	0.17805153	3.1292403	21	5 18.6	19.6
427851 2005 MD_{37}	15.6	X	335.89479	164.52773	130.14454	16.48410	0.0434955	0.17929013	3.1148117	21	6 17.9	20.0
427852 2005 MT_{49}	18.1	X	195.13634	352.42117	268.13807	0.85585	0.1477050	0.27526566	2.3404607	21	—	—
427853 2005 MJ_{54}	16.9	X	352.90491	99.89054	260.27033	13.13251	0.2422516	0.25090927	2.4895732	21	10 26.1	19.0
427854 2005 NK_{47}	17.7	X	214.93108	285.57234	305.70139	7.28452	0.1911615	0.27535894	2.3399321	21	—	—
427855 2005 NN_{67}	16.3	X	324.52300	342.87632	273.14842	13.49357	0.2082911	0.17328157	3.1864061	21	3 13.0	20.7
427856 2005 NZ_{67}	17.5	X	284.25629	127.94704	117.29838	9.39078	0.1724900	0.28920896	2.2646176	21	1 3.7	20.9
427857 2005 NP_{76}	17.5	X	343.17507	85.66834	279.73174	9.11475	0.1163602	0.25236650	2.4799804	21	10 1.9	20.3
427858 2005 NR_{93}	18.2	X	177.88041	330.65483	270.87642	1.50686	0.1505174	0.27024808	2.3693414	21	12 28.0	21.7
427859 2005 NA_{120}	17.7	X	194.10977	306.14173	292.92073	5.90502	0.0829733	0.27137265	2.3627911	21	—	—
427860 2005 OJ_{28}	17.3	X	151.43089	301.32442	330.59847	5.49949	0.1321193	0.26563885	2.3966705	21	—	—
427861 2005 OV_{31}	17.5	X	177.98177	254.13989	32.92081	9.93684	0.3013803	0.27616031	2.3354032	21	—	—
427862 2005 PV_{4}	16.7	X	158.50700	273.95183	73.64721	11.08922	0.2357486	0.27894335	2.3198436	21	1 24.2	20.3
427863 2005 PD_{12}	17.9	X	147.37010	211.70742	62.74725	2.33280	0.1685274	0.26697401	2.3886731	21	—	—
427864 2005 QH_{10}	18.4	X	298.83250	237.31519	155.28865	23.01976	0.0934127	0.37059914	1.9195515	21	9 16.6	19.7
427865 2005 QN_{27}	17.6	X	133.61883	158.56020	154.75346	10.28808	0.2034347	0.26710925	2.3878668	21	—	—
427866 2005 QV_{59}	17.5	X	188.47655	121.88174	165.22898	5.10710	0.2269536	0.27368351	2.3494721	21	—	—
427867 2005 QP_{90}	17.6	X	129.19816	27.69057	271.56961	0.64548	0.1675055	0.26585501	2.3953711	21	—	—
427868 2005 QD_{95}	17.6	X	142.58314	328.48693	348.12480	4.95950	0.1875051	0.27131141	2.3631467	21	—	—
427869 2005 QT_{99}	16.3	X	308.25641	105.64459	176.29856	16.04759	0.2036977	0.17094218	3.2154115	21	4 1.8	20.6
427870 2005 QJ_{131}	17.5	X	244.24522	208.21433	21.77460	6.05718	0.1724562	0.27435843	2.3456174	21	—	—
427871 2005 RM_{27}	16.5	X	262.94665	345.18368	348.91203	14.09269	0.2635930	0.22835935	2.6508807	21	3 30.5	20.9
427872 2005 ST_{5}	17.2	X	44.19139	0.49570	358.07002	6.92851	0.1821535	0.25662427	2.4524730	21	—	—
427873 2005 SK_{29}	17.2	X	218.20718	240.69950	215.90777	6.77285	0.1646719	0.23637931	2.5905764	21	7 31.0	21.4
427874 2005 SC_{32}	17.3	X	277.51738	215.32385	180.42707	9.65207	0.1265170	0.23797847	2.5789580	21	7 25.0	20.7
427875 2005 SU_{57}	17.0	X	67.59339	348.13313	7.27872	6.38105	0.1072739	0.25984164	2.4321865	21	—	—
427876 2005 SZ_{84}	18.1	X	261.04007	62.66002	15.57346	1.09452	0.1812808	0.24082124	2.5586223	21	8 24.4	21.3
427877 2005 SE_{102}	17.7	X	243.71453	86.78356	333.09873	4.69708	0.1702175	0.23508790	2.6000549	21	7 12.2	21.6
427878 2005 SH_{115}	18.0	X	168.92582	37.54621	255.94063	0.53648	0.1799418	0.26899066	2.3767194	21	—	—
427879 2005 SO_{147}	17.9	X	276.81100	12.17230	38.72115	2.99584	0.2386300	0.23876933	2.5732601	21	7 30.3	21.3
427880 2005 SZ_{148}	17.8	X	177.86303	159.34266	121.08919	2.25838	0.1710316	0.26691067	2.3890510	21	—	—
427881 2005 SC_{149}	17.4	X	110.15085	258.33603	38.10152	6.83925	0.0977649	0.25654160	2.4529998	21	12 27.8	21.1
427882 2005 SQ_{156}	17.9	X	282.73416	16.93374	50.44728	1.75444	0.0437397	0.24451680	2.5327767	21	10 1.2	21.1
427883 2005 SB_{178}	17.5	X	222.86088	122.91324	352.87807	8.49279	0.1119275	0.24161521	2.5530140	21	9 7.4	21.1
427884 2005 ST_{191}	18.0	X	168.60079	94.34809	192.93551	5.26677	0.2178286	0.26698839	2.3885874	21	—	—
427885 2005 SR_{218}	17.3	X	240.12802	347.30106	67.70807	8.52492	0.4038779	0.23143771	2.6273220	21	6 12.5	22.2
427886 2005 SC_{236}	17.6	X	91.70877	339.22441	331.93077	2.38458	0.1868369	0.25687470	2.4508787	21	—	—
427887 2005 SP_{289}	17.3	X	326.99082	338.22483	23.60387	8.94977	0.1582355	0.24371080	2.5383580	21	9 1.5	19.8
427888 2005 SU_{289}	17.1	X	241.64322	40.75826	5.12476	13.96457	0.1990562	0.23193980	2.6235290	21	6 17.3	21.5
427889 2005 TV_{9}	16.6	X	137.95462	303.13374	36.96851	11.49027	0.2418304	0.26888560	2.3773385	21	—	—
427890 2005 TH_{15}	17.6	X	237.00142	33.49408	8.01058	25.01980	0.0295660	0.36055100	1.9550517	21	6 22.2	20.5
427891 2005 TC_{40}	17.7	X	282.70534	28.93389	44.54657	8.59793	0.1084305	0.24329782	2.5412296	21	10 2.9	20.8
427892 2005 TQ_{77}	16.8	X	275.74678	353.90114	21.94167	14.76940	0.1956248	0.23463766	2.6033800	21	6 14.5	20.8
427893 2005 TA_{80}	17.7	X	227.66983	98.59323	18.97885	9.92576	0.0199824	0.24298972	2.5433772	21	9 28.4	21.0
427894 2005 UA_{2}	17.7	X	222.93451	28.36089	25.16530	1.61396	0.3008504	0.22950325	2.6420649	21	6 4.7	22.5
427895 2005 UN_{20}	17.1	X	266.05104	35.05662	40.41864	13.39410	0.2389344	0.23824880	2.5770068	21	8 25.2	20.9
427896 2005 UD_{36}	16.0	X	331.03078	227.67859	223.05339	2.15225	0.1610438	0.12638298	3.9325748	21	12 10.5	20.8
427897 2005 UK_{37}	17.2	X	234.91919	229.92805	215.91138	11.67472	0.3240782	0.23244927	2.6196942	21	7 19.2	22.0
427898 2005 UA_{94}	17.2	X	219.42892	232.66922	271.24971	4.69417	0.0720393	0.24319658	2.5419348	21	10 11.9	20.9
427899 2005 UB_{97}	17.6	X	287.01840	281.75346	111.31135	2.21590	0.2331057	0.23751573	2.5823066	21	7 19.5	20.7
427900 2005 UB_{101}	17.5	X	255.19572	271.30720	120.96272	3.85592	0.1069244	0.23156763	2.6263392	21	6 25.8	21.0
427901 2005 UB_{103}	18.2	X	282.98914	206.14594	191.99738	2.80392	0.1760647	0.23663724	2.5886936	21	7 29.3	21.4
427902 2005 UT_{126}	15.7	X	337.96389	191.87439	235.21557	1.94914	0.2046998	0.12590089	3.9426073	21	11 22.9	19.9
427903 2005 UD_{132}	17.5	X	302.99195	211.39010	196.63773	12.14959	0.2469940	0.24125229	2.5555738	21	9 1.3	20.3
427904 2005 UC_{154}	17.7	X	318.85336	156.07770	239.45761	2.50867	0.1530430	0.24230149	2.5481911	21	9 30.9	20.2
427905 2005 UM_{173}	17.4	X	237.73365	179.15713	225.12250	6.32164	0.2485210	0.23038520	2.6353178	21	6 8.6	21.7
427906 2005 UU_{186}	17.8	X	203.55664	108.35526	24.01474	4.95643	0.2128677	0.23437710	2.6053092	21	9 1.7	22.2
427907 2005 UK_{229}	17.7	X	237.25121	272.69078	152.96376	1.67818	0.1228227	0.23278852	2.6171483	21	7 16.9	21.4
427908 2005 US_{237}	17.8	X	313.85311	267.26805	116.96311	4.18667	0.1571257	0.24000403	2.5644271	21	9 5.9	20.3
427909 2005 UF_{238}	17.4	X	315.26711	246.44714	106.06940	4.73364	0.0604386	0.23416705	2.6068669	21	8 2.9	20.6
427910 2005 UZ_{241}	17.1	X	209.62980	265.69927	252.96838	10.30843	0.2655844	0.23805371	2.5784145	21	9 29.6	21.7
427911 2005 UK_{266}	18.0	X	232.28394	329.09564	74.97415	4.54612	0.2575733	0.22892889	2.6464822	21	6 2.9	22.5
427912 2005 US_{280}	16.9	X	280.52107	19.38962	38.41605	12.64465	0.1263180	0.23877701	2.5732049	21	9 7.9	20.3
427913 2005 UU_{288}	16.7	X	132.45093	288.24649	247.09171	11.19048	0.1551825	0.23121132	2.6290367	21	8 15.7	21.0
427914 2005 UF_{314}	17.5	X	319.30654	113.54179	225.38763	11.66934	0.1751526	0.36513553	1.9386526	21	7 2.1	18.9
427915 2005 UC_{331}	16.7	X	291.50731	108.82462	320.35901	12.87931	0.1644118	0.24497378	2.5296260	21	9 22.4	19.8
427916 2005 UZ_{333}	17.3	X	297.49147	320.54475	72.26613	6.29185	0.1945148	0.23775758	2.5805551	21	8 14.2	20.2
427917 2005 UO_{365}	17.7	X	220.57576	49.70354	76.69915	5.49100	0.2137484	0.23695216	2.5863995	21	9 10.6	21.9
427918 2005 UF_{393}	17.6	X	194.92959	199.44136	67.56959	3.33978	0.1911716	0.26857794	2.3791537	21	—	—
427919 2005 UF_{397}	16.8	X	273.33480	339.55827	40.15573	12.67887	0.1865737	0.23532936	2.5982762	21	6 18.8	20.6
427920 2005 UG_{398}	15.8	X	359.39630	245.77955	98.34311	13.77055	0.3965481	0.18423305	3.0588465	21	11 1.7	18.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
427921 2005 UK_{406}	16.1	X	303.17138	335.19992	140.66077	3.66149	0.2001013	0.12578602	3.9450072	21	11 22.2	20.9
427922 2005 UV_{500}	17.0	X	262.74104	257.27975	139.12476	7.40281	0.1863151	0.23379491	2.6096325	21	6 29.7	20.8
427923 2005 UM_{508}	17.5	X	247.62190	328.55210	77.66451	6.58834	0.2533518	0.23264911	2.6181937	21	6 19.1	21.6
427924 2005 UY_{522}	16.0	X	286.01710	4.95538	120.46135	11.21966	0.2053894	0.12437720	3.9747413	21	11 10.9	21.4
427925 2005 UM_{523}	17.9	X	119.74682	190.17441	102.75009	2.14052	0.1645488	0.26046962	2.4282757	21	—	—
427926 2005 UQ_{524}	17.6	X	271.94907	310.45440	84.37132	4.79747	0.1388920	0.23371504	2.6102270	21	7 16.5	20.9
427927 2005 UE_{530}	17.8	X	220.61085	78.99245	11.71327	2.30569	0.1811116	0.23123996	2.6288197	21	7 27.4	21.9
427928 2005 VQ_{1}	16.7	X	209.37750	23.58460	71.42356	14.75013	0.2167294	0.22674869	2.6634192	21	7 21.1	21.3
427929 2005 VQ_{3}	16.5	X	230.23283	93.40742	354.18800	28.13432	0.3332910	0.23431435	2.6057743	21	8 1.5	21.6
427930 2005 VL_{26}	17.9	X	287.72597	76.95421	333.05903	3.76085	0.1822206	0.24220336	2.5488793	21	8 22.8	20.9
427931 2005 VC_{28}	17.7	X	264.92926	63.22467	4.69075	2.97767	0.0689943	0.23839390	2.5759610	21	9 2.2	21.1
427932 2005 VS_{33}	17.6	X	287.34046	325.56616	95.36376	4.22305	0.1618068	0.23934509	2.5691317	21	9 12.3	20.6
427933 2005 VW_{40}	17.2	X	266.16056	263.46394	153.54923	3.07436	0.0785096	0.23509408	2.6000094	21	8 17.1	20.5
427934 2005 VW_{65}	17.6	X	281.08596	28.51480	56.02754	9.03747	0.1185754	0.24381494	2.5376351	21	10 14.4	20.6
427935 2005 VR_{69}	17.7	X	270.39095	336.10168	86.12458	4.65642	0.1385944	0.23661021	2.5888908	21	8 22.9	21.1
427936 2005 VT_{91}	17.3	X	232.13436	72.53651	50.55686	12.50416	0.1475837	0.23975577	2.5661971	21	9 28.7	21.2
427937 2005 VG_{97}	17.1	X	260.93530	194.65616	230.34917	11.61678	0.1504564	0.23617138	2.5920968	21	8 5.4	20.9
427938 2005 VE_{134}	15.9	X	207.40055	139.76118	159.69401	10.47823	0.0596021	0.14694092	3.5566479	21	1 21.5	21.3
427939 2005 WG	17.5	X	251.21406	11.67157	62.16180	12.81551	0.1602194	0.23447652	2.6045727	21	8 13.8	21.5
427940 2005 WE_{42}	17.7	X	201.44915	225.10067	242.20810	12.21435	0.2126893	0.23016167	2.6370238	21	7 24.7	22.4
427941 2005 WF_{46}	17.3	X	295.41014	189.72362	201.96709	13.88197	0.2530237	0.23842062	2.5757686	21	7 23.0	20.7
427942 2005 WB_{61}	16.9	X	194.37530	190.29644	271.56057	6.31231	0.1087114	0.22809576	2.6529226	21	7 17.9	20.9
427943 2005 WA_{88}	17.7	X	244.45100	332.17741	93.93695	6.66544	0.2502342	0.23017281	2.6369387	21	7 12.1	21.9
427944 2005 WZ_{109}	15.8	X	331.91324	215.23694	244.54396	7.23868	0.2431339	0.12459620	3.9700824	21	12 19.5	20.1
427945 2005 WP_{140}	17.0	X	161.76712	174.44101	278.20129	8.70831	0.2302155	0.21820903	2.7324627	21	6 7.7	21.6
427946 2005 WS_{142}	17.7	X	307.36816	318.84460	67.14993	5.93325	0.2043539	0.23879797	2.5730543	21	8 21.0	20.4
427947 2005 WQ_{145}	17.3	X	91.42911	296.69344	36.89162	2.33665	0.1794610	0.25540409	2.4602778	21	—	—
427948 2005 WR_{156}	16.1	X	222.92206	293.05710	82.41583	13.02029	0.1476185	0.22085249	2.7106150	21	5 1.4	20.5
427949 2005 WZ_{169}	17.7	X	290.64662	184.95195	236.61874	4.41788	0.0609986	0.23881044	2.5729648	21	9 29.1	20.9
427950 2005 WH_{176}	17.7	X	245.45184	10.54380	50.92216	3.14641	0.2026290	0.22961963	2.6411721	21	7 12.2	21.8
427951 2005 WJ_{183}	17.7	X	226.26979	147.46320	290.01951	4.99260	0.2695068	0.23015340	2.6370869	21	7 8.8	22.1
427952 2005 WY_{198}	16.0	X	342.47507	118.57295	325.25447	1.74674	0.1660337	0.12482652	3.9651974	21	12 20.8	20.8
427953 2005 XH_{43}	16.9	X	108.72102	289.09827	14.59607	2.99676	0.1838143	0.25240044	2.4797580	21	—	—
427954 2005 XB_{45}	17.3	X	8.29626	357.32141	350.47379	3.32640	0.1513558	0.24181506	2.5516072	21	10 28.7	20.0
427955 2005 XO_{49}	17.4	X	255.51074	44.15665	26.70329	4.23990	0.1147057	0.23204532	2.6227336	21	8 18.2	20.9
427956 2005 XS_{50}	17.0	X	267.81205	330.10251	73.66262	13.86017	0.2307540	0.23163529	2.6258277	21	7 9.8	20.9
427957 2005 XV_{54}	18.0	X	242.08555	50.31572	347.20382	1.30903	0.2370492	0.22867532	2.6484382	21	6 4.5	22.4
427958 2005 XD_{67}	17.1	X	181.37283	254.13776	277.44959	4.14788	0.0825303	0.23758471	2.5818067	21	10 2.4	21.1
427959 2005 XA_{71}	17.3	X	343.91004	309.59767	15.50082	3.93948	0.0691482	0.23023905	2.6364330	21	8 9.9	20.4
427960 2005 YA_{51}	16.7	X	208.01393	19.84311	112.90399	10.23780	0.1127937	0.22976213	2.6400800	21	9 15.3	20.8
427961 2005 YH_{54}	17.2	X	252.26096	281.78266	116.61089	3.93328	0.1492217	0.22622958	2.6674920	21	6 25.1	20.9
427962 2005 YD_{56}	16.4	X	35.71655	57.23149	276.30423	12.78221	0.2029639	0.24495639	2.5297457	21	12 1.1	19.7
427963 2005 YF_{65}	16.6	X	213.79140	138.53626	286.35387	10.68673	0.1764968	0.22368879	2.6876532	21	6 17.9	20.9
427964 2005 YY_{66}	16.6	X	193.90187	207.80342	303.99363	12.28837	0.0868882	0.23048570	2.6345517	21	9 15.8	20.7
427965 2005 YD_{71}	17.0	X	252.83127	9.70982	82.83479	14.99460	0.2199539	0.23438123	2.6052785	21	9 3.5	21.1
427966 2005 YX_{83}	16.7	X	261.48530	301.94408	114.10973	14.07866	0.2409215	0.23070958	2.6328471	21	7 17.2	20.4
427967 2005 YZ_{85}	15.2	X	32.73776	116.84000	290.91103	10.48727	0.1239849	0.12423935	3.9776808	21	—	—
427968 2005 YQ_{105}	16.6	X	119.99554	341.09510	282.47078	12.87265	0.1495453	0.23839670	2.5759409	21	11 25.7	20.8
427969 2005 YU_{108}	17.7	X	208.51339	359.37409	130.74939	2.72525	0.1433994	0.23019374	2.6367789	21	9 6.7	21.7
427970 2005 YC_{118}	17.9	X	265.65676	326.50947	92.20917	2.86484	0.1781767	0.23040306	2.6351817	21	8 4.0	21.4
427971 2005 YG_{125}	17.4	X	193.66547	149.61166	312.70276	5.14664	0.1670250	0.22437572	2.6821649	21	7 17.2	21.6
427972 2005 YY_{141}	17.4	X	174.92806	84.20770	60.52816	2.16244	0.0973030	0.22630411	2.6669063	21	8 23.9	21.5
427973 2005 YW_{142}	16.8	X	184.41645	125.80989	294.81178	8.77073	0.2021918	0.21757417	2.7377755	21	5 15.5	21.6
427974 2005 YB_{167}	16.8	X	165.70464	58.16293	123.14232	14.14861	0.2109080	0.22869202	2.6483093	21	10 3.6	21.6
427975 2005 YP_{171}	16.7	X	259.24233	151.51314	285.44774	8.77373	0.1753376	0.23581995	2.5946713	21	8 17.4	20.4
427976 2005 YZ_{171}	17.0	X	210.02815	230.37150	256.06258	10.87079	0.2427990	0.22854629	2.6494349	21	8 21.7	21.8
427977 2005 YL_{191}	16.5	X	290.01933	272.21090	111.83561	7.01392	0.0505496	0.22551427	2.6731297	21	8 10.6	19.9
427978 2005 YO_{204}	16.9	X	316.36298	90.39104	295.21652	9.47276	0.1244262	0.23238639	2.6201667	21	9 8.5	20.0
427979 2005 YV_{231}	16.3	X	144.24362	251.71981	304.82943	13.50598	0.0473578	0.22742758	2.6581162	21	9 16.6	20.3
427980 2005 YQ_{239}	17.3	X	163.26251	65.73868	118.38416	12.45015	0.2322653	0.22850742	2.6497354	21	10 4.7	22.1
427981 2005 YJ_{290}	17.4	X	13.85527	231.55871	145.96771	7.77862	0.0994239	0.24115663	2.5562495	21	12 12.7	20.5
427982 2006 AY_{14}	16.8	X	314.54762	261.39460	126.12866	10.45920	0.1958640	0.23322394	2.6138899	21	9 7.9	19.4
427983 2006 AJ_{21}	17.0	X	265.55296	24.54957	27.63675	6.83454	0.3312030	0.23160981	2.6260203	21	7 6.2	21.1
427984 2006 AU_{26}	17.1	X	305.61811	285.67828	114.83910	4.53106	0.2266566	0.23636142	2.5907072	21	9 3.4	19.5
427985 2006 AP_{38}	17.8	X	253.38075	112.77775	298.09891	4.38823	0.0822885	0.22681688	2.6628853	21	7 22.0	21.5
427986 2006 AQ_{51}	17.0	X	176.68020	66.90402	115.62070	11.52993	0.0724009	0.23290089	2.6163065	21	10 19.1	21.0
427987 2006 AG_{52}	17.6	X	257.30897	197.16604	254.10108	2.44460	0.0597238	0.23266302	2.6180894	21	9 22.3	21.2
427988 2006 AJ_{52}	17.4	X	188.81026	345.71984	119.16597	12.78765	0.1025909	0.22309666	2.6924068	21	7 16.8	21.4
427989 2006 AC_{54}	17.2	X	354.99361	138.50788	149.20230	5.43101	0.0365265	0.21915593	2.7245862	21	7 3.9	20.8
427990 2006 AZ_{54}	17.0	X	113.23131	48.58855	139.12618	7.94896	0.2194390	0.21889330	2.7267652	21	8 23.1	21.4
427991 2006 AL_{59}	17.3	X	7.23937	230.93245	93.74001	3.93215	0.0352997	0.22773576	2.6557177	21	9 14.3	20.6
427992 2006 AX_{74}	16.5	X	163.52716	80.55843	115.45884	23.21050	0.3638519	0.22410800	2.6843006	21	10 22.4	22.1
427993 2006 AR_{105}	16.7	X	53.00703	285.41106	324.09459	8.19356	0.0408780	0.21925022	2.7238051	21	8 7.0	20.1
427994 2006 BA_{7}	16.5	X	157.36899	258.95786	308.16228	14.45040	0.1003460	0.23121024	2.6290449	21	10 15.2	20.8
427995 2006 BZ_{14}	16.6	X	147.58921	102.87323	125.17571	13.55009	0.2371395	0.23122750	2.6289141	21	11 13.2	21.4
427996 2006 BF_{24}	17.7	X	190.96378	64.06527	29.98967	0.84537	0.3175282	0.22236995	2.6982694	21	7 1.6	22.7
427997 2006 BD_{27}	16.9	X	174.71059	126.01271	332.45218	10.68380	0.1900740	0.21767734	2.7369103	21	6 25.8	21.6
427998 2006 BL_{32}	16.7	X	201.97539	344.40101	131.63878	6.69858	0.1675941	0.22284752	2.6944131	21	8 11.1	21.0
427999 2006 BB_{36}	16.4	X	76.31946	340.66375	315.50303	14.36457	0.1385408	0.23387676	2.6090236	21	11 17.7	20.5
428000 2006 BC_{38}	17.5	X	145.10573	100.05408	7.64342	2.96101	0.2168104	0.21328120	2.7743910	21	6 11.7	22.1