Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
328001 2007 HQ_2	15.9	X	230.65406	273.50909	37.25306	6.38865	0.1198580	0.19918827	2.9037566	21	2 20.9	20.5
328002 2007 HQ_4	15.4	X	125.91618	258.98595	66.63362	10.35824	0.0900415	0.18104920	3.0946033	21	—	—
328003 2007 HY_{18}	17.8	X	194.78012	176.57077	42.68576	22.97557	0.0188338	0.38649650	1.8665473	21	—	—
328004 2007 HU_{27}	16.7	X	318.20787	64.58983	104.32951	1.74979	0.1779490	0.19208708	2.9748879	21	—	—
328005 2007 HP_{34}	16.7	X	296.09331	89.75123	57.73013	0.40693	0.0943569	0.18360441	3.0658247	21	—	—
328006 2007 HO_{41}	16.3	X	91.09982	342.59238	67.23271	7.27735	0.0457178	0.19261440	2.9694559	21	1 13.1	20.4
328007 2007 HQ_{41}	16.0	X	197.81472	279.53598	78.68599	8.75281	0.0928172	0.20055327	2.8905660	21	3 19.7	20.6
328008 2007 HX_{45}	15.4	X	123.38208	92.73424	223.46143	24.25450	0.2379994	0.17362658	3.1821837	21	—	—
328009 2007 HK_{66}	16.0	X	202.96560	41.29970	198.84512	9.77107	0.0686111	0.17896600	3.1185714	21	—	—
328010 2007 HP_{66}	16.0	X	47.16927	276.00764	183.83647	9.99995	0.0702747	0.19287122	2.9668193	21	1 15.1	20.0
328011 2007 HZ_{66}	16.6	X	223.24110	105.45497	197.16634	12.63731	0.1671052	0.19148545	2.9811159	21	1 29.6	21.7
328012 2007 HO_{68}	16.6	X	286.67401	93.66514	198.82811	17.25773	0.2310136	0.20569793	2.8421660	21	3 8.6	21.0
328013 2007 HC_{70}	17.6	X	290.80204	350.12009	79.67031	24.58179	0.1146080	0.37339516	1.9099570	21	11 13.3	19.2
328014 2007 HD_{89}	15.8	X	84.23243	313.59890	66.12402	10.54807	0.0898052	0.18250086	3.0781712	21	—	—
328015 2007 HO_{96}	15.8	X	184.92339	215.79164	61.33881	12.37500	0.0972968	0.18241938	3.0790878	21	—	—
328016 2007 HK_{97}	16.1	X	300.14379	36.81145	158.97131	11.40788	0.1970956	0.19141572	2.9818399	21	—	—
328017 2007 JO	16.0	X	188.43746	114.60092	151.61775	13.45947	0.1422583	0.17877496	3.1207927	21	—	—
328018 2007 JM_8	16.2	X	242.42990	192.79355	55.08443	10.55657	0.0287593	0.18897015	3.0075112	21	—	—
328019 2007 JP_8	16.1	X	355.05326	244.91985	228.26613	15.27622	0.0787649	0.18657036	3.0332459	21	—	—
328020 2007 JH_{10}	15.9	X	159.71988	51.84258	232.07447	16.14624	0.0351872	0.18030588	3.1031025	21	—	—
328021 2007 JK_{10}	16.6	X	228.83681	289.71503	357.32866	0.89101	0.0626702	0.19355713	2.9598062	21	1 22.5	21.0
328022 2007 JJ_{12}	15.7	X	228.58409	133.55318	138.86889	10.86896	0.1071613	0.18871783	3.0101913	21	1 4.3	20.6
328023 2007 JZ_{15}	16.3	X	340.25823	275.83153	221.55264	10.68276	0.0793845	0.18665699	3.0323073	21	—	—
328024 2007 JS_{18}	16.1	X	224.21016	264.54504	72.17456	15.14325	0.2609091	0.19646992	2.9304794	21	3 18.3	21.5
328025 2007 JM_{23}	15.9	X	239.72784	44.87143	162.84966	14.47982	0.0962527	0.18012578	3.1051706	21	—	—
328026 2007 JB_{27}	15.8	X	107.97125	153.24940	211.55064	10.45078	0.0918203	0.18231739	3.0802360	21	—	—
328027 2007 KU_2	15.7	X	200.48504	355.36736	261.66603	11.84814	0.0741820	0.18078239	3.0976473	21	—	—
328028 2007 KU_5	16.6	X	208.42076	217.43972	100.04980	3.66267	0.2233337	0.18980955	2.9986378	21	2 7.3	21.7
328029 2007 KM_6	16.0	X	31.74639	250.38210	234.63176	9.60390	0.0026015	0.19361965	2.9591689	21	1 22.9	20.3
328030 2007 KV_7	17.4	X	111.18924	247.60065	55.09617	22.49776	0.0583778	0.38442509	1.8732464	21	—	—
328031 2007 KX_8	15.3	X	184.53821	202.88138	110.88931	12.15879	0.1342410	0.18525658	3.0475696	21	1 12.7	20.2
328032 2007 LP_1	15.7	X	296.15676	21.33154	196.01058	8.69680	0.0260068	0.19214756	2.9742637	21	1 16.7	20.0
328033 2007 LQ_1	15.6	X	149.65426	225.45543	86.42702	17.05752	0.2011628	0.17778970	3.1323118	21	—	—
328034 2007 LX_3	15.6	X	150.78349	260.55593	82.21319	16.38268	0.2504141	0.18209247	3.0827718	21	1 26.8	20.9
328035 2007 LS_4	15.7	X	302.89529	86.78491	77.80040	19.26109	0.0433889	0.18397826	3.0616700	21	—	—
328036 2007 LK_6	15.8	X	286.89413	47.11927	147.48593	15.38002	0.0827382	0.18716026	3.0268690	21	—	—
328037 2007 LX_7	16.2	X	293.08386	282.21600	217.18629	23.97552	0.2444708	0.18008417	3.1056490	21	12 9.8	20.1
328038 2007 LP_9	16.1	X	189.84990	85.36998	223.04398	10.20919	0.0853781	0.18663639	3.0325304	21	1 7.3	20.9
328039 2007 LD_{16}	16.3	X	195.92586	147.80655	155.70529	10.15627	0.1554059	0.18618487	3.0374313	21	1 10.8	21.4
328040 2007 LJ_{16}	15.8	X	171.50437	172.88796	133.03274	11.12497	0.0251264	0.18484871	3.0520509	21	—	—
328041 2007 LN_{17}	15.9	X	206.32423	273.69524	57.44326	9.11611	0.0848289	0.19597469	2.9354142	21	2 24.1	20.5
328042 2007 LK_{18}	15.2	X	175.88165	166.35830	99.26666	30.41984	0.2109276	0.17720623	3.1391837	21	—	—
328043 2007 LW_{32}	15.3	X	201.25346	172.89429	120.07597	20.83116	0.3017028	0.17923605	3.1154382	21	1 7.5	21.0
328044 2007 MS_6	16.4	X	197.27343	127.65458	159.89522	11.93450	0.0564408	0.18700285	3.0285674	21	—	—
328045 2007 MC_7	16.1	X	146.45501	50.85852	233.03733	8.54748	0.0637458	0.17523255	3.1627112	21	—	—
328046 2007 MA_8	16.3	X	235.38308	42.28509	177.77500	16.04683	0.1632716	0.18104720	3.0946261	21	—	—
328047 2007 MZ_{13}	16.1	X	276.16494	61.80611	171.66683	14.53990	0.0965994	0.19066291	2.9896837	21	1 5.7	20.9
328048 2007 MF_{14}	17.0	X	237.65431	85.59009	192.93273	12.19584	0.3794694	0.18777161	3.0202954	21	1 9.3	22.9
328049 2007 NA_6	15.7	X	207.02668	253.43067	17.43812	15.89292	0.2052763	0.17801900	3.1296214	21	—	—
328050 2007 NS_6	15.8	X	166.51624	258.04483	73.57145	17.22247	0.2311075	0.17819042	3.1276140	21	1 26.3	21.3
328051 2007 OW	15.3	X	161.77861	103.53835	205.46727	14.64873	0.0935784	0.17665126	3.1457550	21	—	—
328052 2007 RJ_{132}	17.3	X	91.05507	64.34112	185.90239	23.16154	0.0927033	0.35547318	1.9736258	21	10 23.0	19.7
328053 2007 TE_{25}	17.6	X	56.57385	97.07276	178.51311	22.49909	0.0943095	0.35213520	1.9860786	21	10 13.2	19.7
328054 2007 TS_{145}	14.9	X	277.81759	306.81847	70.75054	2.99025	0.1762111	0.12489762	3.9636923	21	6 25.7	20.4
328055 2007 TB_{227}	18.1	X	331.99635	112.10485	13.51772	4.28709	0.1460429	0.29681730	2.2257510	21	—	—
328056 2007 TS_{318}	17.7	X	309.37657	95.10991	50.76028	7.92748	0.1026124	0.29520040	2.2338710	21	—	—
328057 2007 TJ_{332}	18.0	X	96.05874	181.57473	262.20899	2.11646	0.0803474	0.31463011	2.1409303	21	2 9.9	20.0
328058 2007 TS_{442}	16.7	X	58.42609	268.72437	265.33691	11.19950	0.0773582	0.32559950	2.0925711	21	4 20.7	18.8
328059 2007 UB_6	19.4	X	44.86615	255.29155	56.84857	14.19975	0.1665419	0.57121953	1.4385800	21	—	—
328060 2007 US_{46}	18.1	X	186.34491	307.68238	61.56917	6.07107	0.1419653	0.32027595	2.1156955	21	3 8.2	21.1
328061 2007 UL_{48}	18.1	X	48.72358	11.39184	78.39321	3.16536	0.0911245	0.30426973	2.1892577	21	—	—
328062 2007 UZ_{97}	18.4	X	17.93350	335.43209	129.74982	0.46875	0.0910900	0.30201485	2.2001410	21	—	—
328063 2007 UH_{137}	17.3	X	90.57563	123.17119	205.62225	24.07069	0.1258975	0.37320413	1.9106087	21	—	—
328064 2007 VR_{56}	17.9	X	340.67934	27.19555	119.21591	3.90667	0.1287822	0.30071359	2.2064835	21	—	—
328065 2007 VJ_{83}	17.3	X	110.01896	297.96699	84.11952	7.15248	0.1481417	0.29978761	2.2110247	21	—	—
328066 2007 VQ_{124}	17.7	X	274.79030	267.31928	248.42215	4.34061	0.0832697	0.28878395	2.2668390	21	—	—
328067 2007 VK_{202}	17.7	X	15.68533	59.14927	42.39377	5.09550	0.1106076	0.29499868	2.2348892	21	—	—
328068 2007 VQ_{208}	17.9	X	102.54011	10.31235	33.99925	3.73420	0.1202850	0.30294628	2.1956291	21	1 3.5	20.0
328069 2007 VF_{245}	17.8	X	43.97061	9.96543	72.86777	3.85699	0.0912566	0.30207334	2.1998570	21	—	—
328070 2007 VD_{310}	17.5	X	202.49069	304.65157	50.66018	4.81311	0.2067103	0.31616473	2.1339968	21	3 7.6	20.8
328071 2007 VM_{330}	17.8	X	276.52986	124.71228	0.81862	3.77943	0.1356902	0.27740188	2.3284296	21	12 4.4	20.0
328072 2007 WM	17.9	X	331.91824	57.56354	0.07991	6.89354	0.2126336	0.28206836	2.3026776	21	12 19.0	19.6
328073 2007 WE_8	17.9	X	107.42209	46.99034	14.64995	4.55830	0.1502686	0.31045340	2.1600896	21	2 11.0	20.0
328074 2007 WO_{62}	17.5	X	236.70542	154.72380	11.78574	3.54691	0.1283424	0.27545356	2.3393963	21	12 1.4	20.5
328075 2007 XK	17.3	X	339.18087	235.40327	194.69587	4.40565	0.1149302	0.28562635	2.2835150	21	—	—
328076 2007 XR_{28}	17.8	X	171.67140	80.86136	272.61564	4.32068	0.1446464	0.31110840	2.1570567	21	1 27.8	20.6
328077 2007 XK_{31}	17.9	X	66.24815	299.55939	106.92075	3.58416	0.1263723	0.29419091	2.2389783	21	—	—
328078 2007 XR_{31}	17.7	X	332.62420	318.42280	139.68372	5.42434	0.3040064	0.28496535	2.2870448	21	—	—
328079 2007 XU_{40}	17.8	X	67.62810	36.86470	32.89907	6.25980	0.0971405	0.30326974	2.1940675	21	—	—
328080 2007 XG_{48}	17.0	X	356.73383	47.30167	81.23201	6.19596	0.0584387	0.29589126	2.2303925	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
328081 2007 XH_{56}	18.1	X	2.81142	242.56830	207.12562	0.55948	0.1744788	0.29336931	2.2431566	21	—	—
328082 2007 XL_{57}	17.3	X	292.09769	9.00196	104.33802	4.48656	0.1494631	0.28160374	2.3052097	21	12 16.3	19.1
328083 2007 XH_{58}	17.2	X	273.18904	195.21217	51.27952	4.80926	0.0693939	0.30195884	2.2004131	21	—	—
328084 2007 YN_{26}	17.2	X	301.85989	66.71056	76.57631	7.49751	0.0852859	0.28598183	2.2816223	21	—	—
328085 2007 YA_{31}	17.4	X	326.49380	110.73037	86.85337	6.07450	0.0244545	0.30669166	2.1777168	21	1 6.9	19.7
328086 2007 YB_{44}	17.1	X	38.30435	278.52027	131.96247	6.78066	0.1070164	0.28678567	2.2773568	21	—	—
328087 2007 YP_{44}	17.6	X	271.80441	69.52716	85.05718	3.59903	0.0943019	0.28022213	2.3127805	21	—	—
328088 2007 YS_{49}	17.8	X	274.45328	161.92588	315.99501	1.97665	0.1153562	0.27624231	2.3349410	21	11 22.6	20.1
328089 2007 YE_{63}	17.7	X	212.53452	158.40440	36.45516	2.52484	0.1236931	0.27476262	2.3433165	21	12 9.5	20.9
328090 2007 YG_{63}	17.7	X	133.48434	244.26092	349.33643	2.99326	0.0883111	0.26688554	2.3892010	21	11 3.4	21.0
328091 2007 YR_{63}	17.6	X	297.77927	67.10584	59.19816	2.47563	0.0505921	0.28005151	2.3137198	21	—	—
328092 2007 YC_{64}	17.7	X	214.60027	232.34624	324.78107	1.97745	0.1013776	0.27594119	2.3366394	21	12 18.5	20.7
328093 2007 YH_{64}	17.7	X	205.48778	60.30747	115.10227	2.87168	0.1674815	0.26956814	2.3733239	21	11 2.3	21.1
328094 2007 YA_{68}	17.7	X	144.07386	242.22224	117.19071	5.07455	0.1827392	0.30176733	2.2013439	21	1 11.4	20.4
328095 2007 YJ_{72}	17.2	X	257.87446	161.40729	71.01732	6.89166	0.0677202	0.29147251	2.2528779	21	—	—
328096 2008 AR	17.4	X	266.37342	28.44724	96.37140	5.99348	0.1762585	0.27451550	2.3447226	21	11 11.7	20.0
328097 2008 AD_{14}	17.4	X	198.68570	15.12002	271.71411	5.35821	0.1058656	0.29291791	2.2454606	21	—	—
328098 2008 AJ_{16}	18.1	X	267.12983	228.55456	233.87057	2.81646	0.1691688	0.27131774	2.3631099	21	10 9.3	20.8
328099 2008 AW_{17}	17.4	X	189.23280	136.99735	141.61593	2.99232	0.0862212	0.28774256	2.2723051	21	—	—
328100 2008 AJ_{20}	17.8	X	262.88301	0.69965	100.01169	2.90961	0.1397736	0.26817192	2.3815545	21	10 7.7	20.5
328101 2008 AK_{22}	17.8	X	265.13249	102.84043	357.20856	2.72837	0.1244835	0.26799199	2.3826203	21	10 10.3	20.6
328102 2008 AZ_{22}	17.4	X	325.09576	357.66680	101.00856	4.23959	0.1474586	0.28040655	2.3117664	21	—	—
328103 2008 AO_{23}	17.2	X	5.40660	288.10682	115.45211	7.68014	0.1119434	0.27796740	2.3252705	21	—	—
328104 2008 AG_{25}	17.5	X	148.26594	213.60126	89.25121	3.75075	0.1680924	0.28273681	2.2990468	21	—	—
328105 2008 AZ_{31}	17.7	X	242.29390	26.86967	129.52189	5.76868	0.1661210	0.27535145	2.3399746	21	11 21.8	20.7
328106 2008 AA_{32}	17.0	X	1.97163	313.92417	126.50245	7.73530	0.1918509	0.28849198	2.2683682	21	—	—
328107 2008 AG_{37}	18.1	X	287.96613	200.52155	284.09896	1.52895	0.1565404	0.27842319	2.3227320	21	12 23.3	19.8
328108 2008 AF_{42}	17.3	X	68.97529	169.18568	226.59590	3.73589	0.1473702	0.29311883	2.2444344	21	—	—
328109 2008 AQ_{42}	17.7	X	324.05380	295.02517	137.83235	3.31136	0.2117556	0.27931132	2.3178057	21	12 23.5	19.0
328110 2008 AS_{47}	18.1	X	282.52854	165.79647	295.26521	2.87996	0.1995288	0.27594232	2.3366330	21	10 28.7	20.3
328111 2008 AW_{57}	17.6	X	271.18095	324.48777	147.05331	2.37404	0.1296967	0.27356622	2.3501436	21	11 6.8	20.1
328112 2008 AL_{65}	17.6	X	202.16430	8.02725	156.65656	5.06041	0.1373460	0.26693643	2.3888973	21	10 19.1	21.1
328113 2008 AS_{65}	17.2	X	330.27671	306.31837	118.56936	5.97921	0.1002648	0.27618378	2.3352709	21	12 16.5	19.5
328114 2008 AO_{66}	18.2	X	272.27638	10.15769	105.13719	2.23871	0.1369130	0.27320888	2.3521924	21	11 12.6	20.5
328115 2008 AK_{68}	17.0	X	20.80530	285.55461	122.49398	6.73722	0.1085844	0.28289507	2.2981893	21	—	—
328116 2008 AR_{69}	16.7	X	168.42749	87.00063	124.68198	6.00503	0.1247298	0.26688996	2.3891746	21	11 14.5	20.3
328117 2008 AB_{71}	17.4	X	210.27215	47.57782	145.46718	6.07190	0.1636496	0.27175199	2.3605918	21	11 30.7	20.9
328118 2008 AY_{71}	17.2	X	31.88537	276.12995	154.58055	6.55457	0.1739364	0.29148170	2.2528305	21	—	—
328119 2008 AK_{73}	17.9	X	284.04603	212.68990	291.20896	2.29081	0.1116423	0.28069492	2.3101828	21	—	—
328120 2008 AU_{74}	17.9	X	278.38443	193.13990	271.01558	4.10038	0.1555870	0.27373889	2.3491552	21	11 1.6	20.5
328121 2008 AY_{96}	17.5	X	221.14058	218.88771	345.43068	6.89176	0.0674782	0.27909347	2.3190117	21	—	—
328122 2008 AL_{100}	17.8	X	305.69964	333.59436	158.01914	6.59288	0.1304194	0.28232998	2.3012549	21	—	—
328123 2008 AB_{102}	17.5	X	95.45119	290.87400	103.22555	6.11763	0.1345717	0.29949485	2.2124654	21	—	—
328124 2008 AA_{103}	18.5	X	320.08828	38.38777	84.08214	2.74880	0.1461365	0.28651700	2.2787803	21	—	—
328125 2008 AN_{111}	18.0	X	290.78746	358.47677	120.21490	2.07121	0.1310366	0.27743087	2.3282674	21	12 21.9	20.2
328126 2008 AX_{114}	18.0	X	223.07744	11.20866	155.32574	2.59727	0.1624836	0.27144141	2.3623921	21	11 10.5	21.3
328127 2008 BV	17.4	X	214.41737	252.30923	29.45918	7.14025	0.1568895	0.29605030	2.2295936	21	—	—
328128 2008 BN_{2}	17.7	X	294.64179	121.40524	348.80861	7.42993	0.1157199	0.27683567	2.3316034	21	12 17.3	20.1
328129 2008 BD_{7}	17.2	X	208.00900	70.03698	150.86005	6.73054	0.0819320	0.27864106	2.3215211	21	—	—
328130 2008 BY_{8}	17.3	X	228.53066	103.32711	88.36642	6.16855	0.1757307	0.27476808	2.3432855	21	12 17.9	20.3
328131 2008 BC_{10}	17.4	X	326.63018	116.09932	341.93819	8.08496	0.0525134	0.27941229	2.3172473	21	—	—
328132 2008 BZ_{16}	17.3	X	244.19598	188.19165	311.42311	5.99537	0.0859306	0.27180821	2.3602663	21	11 9.3	20.4
328133 2008 BD_{19}	17.2	X	237.35794	121.74120	100.32781	10.15948	0.0535979	0.28912485	2.2650568	21	—	—
328134 2008 BG_{23}	17.8	X	199.18149	26.86129	137.81325	1.69412	0.1515531	0.26348155	2.4097347	21	10 13.4	21.2
328135 2008 BL_{23}	17.2	X	188.70577	77.89878	141.87218	6.66711	0.1502983	0.26968108	2.3726612	21	12 12.4	20.7
328136 2008 BC_{30}	17.9	X	219.61990	237.14696	287.87679	4.66301	0.1598412	0.27033675	2.3688233	21	11 2.0	21.2
328137 2008 BY_{33}	17.1	X	289.53157	25.23698	125.45289	5.34603	0.0487094	0.28024692	2.3126442	21	—	—
328138 2008 BX_{35}	17.5	X	289.39131	18.97458	85.06226	2.33379	0.1369442	0.27133466	2.3630117	21	11 25.3	19.6
328139 2008 BG_{36}	17.6	X	254.36637	289.51990	163.94197	2.16442	0.1175680	0.26180752	2.4199959	21	9 16.8	20.5
328140 2008 BS_{38}	18.3	X	218.03555	312.18337	176.17293	2.10496	0.1417593	0.26150334	2.4218722	21	9 16.0	21.7
328141 2008 BH_{39}	17.8	X	292.42760	59.51257	103.12947	5.41943	0.1082383	0.28570012	2.2831219	21	—	—
328142 2008 BS_{41}	16.6	X	242.09873	15.73501	159.58185	7.21730	0.0685511	0.27267426	2.3552660	21	12 30.0	19.6
328143 2008 BB_{51}	17.5	X	124.84049	176.86865	149.39061	4.33067	0.1504534	0.28321323	2.2964678	21	—	—
328144 2008 BM_{51}	17.4	X	53.14376	7.35800	46.60708	5.46104	0.2140185	0.29162226	2.2521066	21	—	—
328145 2008 CE_{2}	17.3	X	257.93094	305.37916	200.88853	9.38526	0.1515830	0.27478565	2.3431855	21	12 1.9	20.1
328146 2008 CA_{10}	17.7	X	199.46111	81.27624	138.28745	3.45272	0.1124594	0.27468084	2.3437816	21	12 27.9	20.9
328147 2008 CB_{25}	17.0	X	117.69899	275.70799	358.42569	7.10639	0.0952505	0.26682709	2.3895499	21	12 8.4	20.6
328148 2008 CT_{29}	17.7	X	291.44590	133.33993	335.39217	6.37011	0.0802637	0.27509887	2.3414067	21	12 11.6	20.4
328149 2008 CY_{42}	17.5	X	237.70456	166.32968	1.97722	6.51349	0.0457899	0.27148179	2.3621579	21	12 17.6	20.5
328150 2008 CC_{43}	18.0	X	215.92309	67.43098	82.74394	3.52167	0.1181813	0.26392995	2.4070047	21	10 16.9	21.3
328151 2008 CG_{54}	17.6	X	291.95895	254.68575	188.38304	4.26569	0.2019082	0.27246024	2.3564992	21	10 20.6	19.7
328152 2008 CE_{65}	17.6	X	245.89700	335.16173	163.32862	4.74048	0.1812845	0.27082760	2.3659602	21	10 30.0	20.6
328153 2008 CT_{86}	17.6	X	204.67406	116.37545	75.89832	3.30641	0.1392237	0.26856143	2.3792511	21	11 24.8	20.8
328154 2008 CJ_{105}	17.9	X	212.13648	113.21403	36.40538	3.34908	0.2101767	0.26487549	2.4012730	21	10 2.3	21.7
328155 2008 CW_{129}	17.7	X	238.34381	16.64714	163.40750	4.46431	0.0842727	0.27509849	2.3414088	21	12 29.4	20.6
328156 2008 CB_{130}	17.6	X	316.74236	262.89258	167.18147	2.54277	0.1562073	0.27295034	2.3536775	21	11 28.2	19.5
328157 2008 CB_{132}	17.5	X	201.65311	185.82124	6.19864	2.12054	0.1484832	0.26834328	2.3805404	21	11 19.5	21.0
328158 2008 CA_{133}	18.3	X	185.21657	173.56034	333.94730	4.62663	0.1482003	0.25786747	2.4445842	21	9 5.9	22.0
328159 2008 CD_{133}	17.4	X	193.52190	52.53592	150.80295	3.80709	0.1278265	0.26878323	2.3779421	21	11 28.7	20.8
328160 2008 CE_{138}	17.6	X	103.90268	166.82461	116.30385	4.44014	0.0380024	0.26720573	2.3872920	21	12 2.6	20.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
328161 2008 CL_{158}	17.3	X	235.72636	272.44885	249.63671	4.01950	0.1724253	0.27114527	2.3641119	21	11 17.1	20.3
328162 2008 CH_{178}	17.7	X	253.46398	351.52607	154.52198	2.52026	0.1559534	0.27437272	2.3455360	21	11 23.7	20.2
328163 2008 CP_{179}	17.0	X	286.12102	111.58495	43.98831	6.31171	0.0548404	0.27981440	2.3150267	21	—	—
328164 2008 CN_{192}	17.2	X	220.39115	255.81476	232.35907	7.22807	0.1413107	0.26271249	2.4144353	21	9 15.4	20.8
328165 2008 CH_{194}	17.3	X	151.65567	282.12618	171.73953	6.23438	0.1899216	0.24006979	2.5639588	21	5 30.2	21.5
328166 2008 CN_{196}	17.5	X	280.37703	143.12919	336.92544	7.67274	0.0678994	0.27323194	2.3520601	21	12 10.3	20.3
328167 2008 CV_{197}	18.0	X	224.40179	104.08436	323.90758	1.00282	0.1567374	0.25311611	2.4750816	21	7 3.1	21.8
328168 2008 CY_{200}	17.7	X	126.11526	137.66338	144.04621	3.57072	0.1792117	0.26660844	2.3908562	21	12 28.7	21.6
328169 2008 CC_{201}	17.1	X	161.94620	95.43716	173.87611	8.63822	0.1251472	0.27348000	2.3506376	21	—	—
328170 2008 CL_{210}	17.8	X	269.95711	259.51595	202.39726	2.08168	0.1844808	0.26885865	2.3774974	21	10 10.9	20.5
328171 2008 CE_{215}	17.5	X	281.20272	109.39420	8.16713	5.69183	0.1120872	0.27356001	2.3501792	21	12 2.6	19.9
328172 2008 CJ_{215}	17.3	X	225.14500	88.02420	100.71653	4.91432	0.0949851	0.27350765	2.3504791	21	12 21.4	20.3
328173 2008 CM_{215}	16.7	X	175.88305	154.11882	96.24609	7.22589	0.0824318	0.27415731	2.3467644	21	—	—
328174 2008 DP	17.4	X	215.10740	158.93780	78.00422	3.46409	0.1902090	0.28050327	2.3112350	21	—	—
328175 2008 DN_{1}	18.0	X	246.90088	250.19571	229.11302	0.81822	0.1326018	0.26743371	2.3859351	21	10 10.3	21.1
328176 2008 DU_{3}	17.4	X	159.76652	180.83309	24.51423	3.15820	0.1205465	0.26262801	2.4149530	21	10 26.2	20.9
328177 2008 DH_{15}	17.5	X	147.65361	100.26848	142.99029	3.14841	0.1928534	0.26231323	2.4168846	21	11 30.7	21.6
328178 2008 DZ_{23}	17.6	X	129.82248	60.63519	175.19058	1.63806	0.1353174	0.26072960	2.4266613	21	11 4.7	21.2
328179 2008 DS_{27}	17.9	X	237.64305	34.64063	142.91074	0.87283	0.1447387	0.27608281	2.3358403	21	12 15.9	20.6
328180 2008 DB_{33}	17.2	X	350.07250	325.69012	96.90118	3.03505	0.1887000	0.27624284	2.3349381	21	—	—
328181 2008 DF_{36}	17.1	X	101.37349	286.82060	354.80385	15.59032	0.1739608	0.26021262	2.4298744	21	12 2.5	21.2
328182 2008 DL_{36}	18.0	X	177.79507	309.13991	238.70763	0.57115	0.1286765	0.26075526	2.4265021	21	10 21.7	21.7
328183 2008 DN_{36}	18.1	X	186.36719	350.99763	196.32961	1.41014	0.2004359	0.26226883	2.4171574	21	10 25.8	21.9
328184 2008 DB_{37}	16.2	X	50.47593	52.46806	97.81153	12.36527	0.1304783	0.23127079	2.6285861	21	4 2.7	19.3
328185 2008 DX_{40}	16.9	X	169.40397	78.11091	149.20374	7.19184	0.1792802	0.26496463	2.4007344	21	12 1.5	20.9
328186 2008 DK_{55}	17.8	X	236.43461	302.29835	174.81679	6.23469	0.1527260	0.26211810	2.4180839	21	9 21.1	21.2
328187 2008 DK_{59}	17.6	X	118.99572	343.53040	262.96383	1.92027	0.1505514	0.25950484	2.4342905	21	11 7.2	21.3
328188 2008 DY_{70}	17.0	X	174.20155	168.21019	50.79882	12.16659	0.0777119	0.26841849	2.3800957	21	11 29.6	20.4
328189 2008 DD_{72}	17.6	X	147.78269	288.60271	347.90896	1.17240	0.1623819	0.27234578	2.3571594	21	—	—
328190 2008 DP_{73}	17.6	X	231.33184	339.86597	183.15239	6.62300	0.0333813	0.26920353	2.3754663	21	12 4.5	20.6
328191 2008 DF_{81}	17.6	X	144.41366	31.56092	194.24128	2.02054	0.1642198	0.25954908	2.4340139	21	11 6.2	21.4
328192 2008 DO_{88}	17.6	X	190.42173	82.27799	161.48552	6.89292	0.0716592	0.27591162	2.3368064	21	—	—
328193 2008 EF_{6}	17.4	X	200.94164	112.95929	67.35178	5.85210	0.1663877	0.26454530	2.4032706	21	11 3.5	20.9
328194 2008 ER_{6}	17.4	X	218.27213	85.29933	68.25627	7.05346	0.1526226	0.26443819	2.4039195	21	10 21.2	20.9
328195 2008 EH_{16}	17.5	X	158.77852	216.76426	0.12878	2.48234	0.1399874	0.25994221	2.4315592	21	11 7.5	21.3
328196 2008 EQ_{16}	17.5	X	208.22097	331.08275	179.53113	5.64079	0.0488881	0.25840275	2.4412071	21	10 14.9	20.6
328197 2008 EU_{24}	16.8	X	215.47448	11.65448	96.32789	7.63989	0.0950014	0.25464075	2.4651922	21	8 23.9	20.4
328198 2008 EN_{25}	16.7	X	79.51959	181.76732	85.95092	7.39222	0.1021755	0.25320144	2.4745255	21	10 21.6	20.1
328199 2008 EX_{38}	15.9	X	329.67388	289.47238	146.62900	10.31865	0.0879078	0.19815011	2.9138902	21	12 10.8	19.7
328200 2008 EW_{47}	17.1	X	31.17526	62.37663	178.27547	4.13746	0.2247439	0.23502068	2.6005507	21	7 13.9	19.6
328201 2008 EL_{48}	16.8	X	112.32961	328.95784	189.17811	8.75580	0.1039218	0.23914497	2.5705647	21	7 1.4	20.6
328202 2008 EA_{50}	17.5	X	11.49569	244.88780	141.08095	4.14277	0.0369168	0.27039673	2.3684729	21	12 18.2	20.3
328203 2008 EQ_{54}	16.9	X	141.85601	173.86612	41.26982	6.80655	0.0807661	0.25546216	2.4599050	21	10 20.2	20.4
328204 2008 EC_{55}	17.4	X	129.10816	82.20450	176.43812	8.88013	0.0828048	0.26045729	2.4283524	21	12 1.9	21.1
328205 2008 EE_{56}	17.3	X	200.12654	104.65928	159.45968	6.66918	0.0753906	0.28345141	2.2951812	21	—	—
328206 2008 EJ_{69}	17.0	X	192.24501	124.73864	70.59657	11.45353	0.1666958	0.26653823	2.3912760	21	11 14.5	20.6
328207 2008 EU_{69}	16.9	X	167.96760	98.13718	84.71931	9.48426	0.0496866	0.25942695	2.4347778	21	10 12.8	20.4
328208 2008 EZ_{79}	17.7	X	189.93925	52.93511	89.62461	2.37441	0.1321657	0.25483688	2.4639272	21	9 6.5	21.3
328209 2008 EY_{81}	17.2	X	151.63396	55.46447	188.58033	5.37445	0.2367887	0.26274281	2.4142495	21	12 4.2	21.3
328210 2008 EL_{89}	17.2	X	153.17640	335.43949	258.50807	4.15720	0.1968856	0.26205688	2.4184605	21	11 23.1	21.0
328211 2008 EO_{96}	18.0	X	231.43193	305.01083	162.24611	2.28613	0.1283772	0.26071542	2.4267492	21	9 4.7	21.2
328212 2008 EB_{109}	17.9	X	330.80604	250.59996	157.56040	2.27780	0.2015836	0.27309760	2.3528313	21	11 26.7	19.4
328213 2008 EF_{111}	17.0	X	156.00587	189.13485	57.35985	6.67515	0.1276069	0.26613186	2.3937096	21	12 13.0	20.5
328214 2008 EC_{116}	17.8	X	132.61041	42.84572	178.91185	6.39551	0.0675171	0.25711319	2.4493629	21	10 18.3	21.2
328215 2008 EJ_{122}	17.5	X	108.15670	81.20420	199.10096	1.94846	0.2055405	0.25922265	2.4360568	21	12 11.9	21.6
328216 2008 ED_{129}	17.4	X	158.39507	106.40105	158.56529	12.78562	0.2251599	0.26742664	2.3859771	21	—	—
328217 2008 EQ_{131}	17.4	X	135.26222	156.33347	104.08134	3.73864	0.1813105	0.26205423	2.4184768	21	12 10.5	21.4
328218 2008 ET_{139}	17.7	X	201.40143	173.55613	331.58954	4.13740	0.1376883	0.25669104	2.4520477	21	9 19.2	21.4
328219 2008 EC_{148}	16.8	X	37.71887	153.33859	190.12425	6.55720	0.2475594	0.26024280	2.4296864	21	12 26.2	20.1
328220 2008 EK_{151}	16.7	X	89.47239	65.71408	160.44975	5.04109	0.1309414	0.24325187	2.5415496	21	9 8.1	20.2
328221 2008 ES_{155}	16.4	X	342.34425	144.59357	144.98025	14.79935	0.2123518	0.22984755	2.6394258	21	6 4.8	19.3
328222 2008 FZ_{3}	17.2	X	120.01358	81.55350	146.67791	2.97916	0.1400747	0.25588048	2.4572232	21	10 16.9	20.9
328223 2008 FC_{7}	16.8	X	306.88974	189.66369	102.58515	1.89033	0.0916580	0.22786874	2.6546843	21	4 23.2	20.2
328224 2008 FY_{10}	17.3	X	129.26758	208.25775	86.66779	3.31369	0.2031844	0.27137783	2.3627611	21	—	—
328225 2008 FM_{11}	17.7	X	157.37290	223.18794	355.70610	1.28396	0.1349028	0.26436635	2.4043550	21	11 9.6	21.4
328226 2008 FU_{15}	17.0	X	22.42407	139.82485	144.39979	6.50984	0.1341195	0.24049367	2.5609452	21	8 21.1	19.7
328227 2008 FY_{27}	16.3	X	219.71154	324.09285	133.41865	6.78786	0.0719846	0.24529673	2.5274052	21	8 14.3	19.6
328228 2008 FA_{34}	17.4	X	140.80857	231.22963	13.45347	1.94785	0.1414208	0.26279722	2.4139163	21	11 25.6	21.1
328229 2008 FL_{38}	16.5	X	352.48638	218.57371	160.19141	6.78445	0.1233927	0.25850625	2.4405555	21	11 17.9	19.0
328230 2008 FR_{41}	16.7	X	255.79644	192.35370	182.78737	14.51160	0.0763846	0.24223067	2.5486878	21	6 8.3	20.5
328231 2008 FP_{46}	17.5	X	148.23040	110.70794	125.91304	1.77745	0.1702526	0.26211671	2.4180925	21	11 23.1	21.2
328232 2008 FB_{53}	17.0	X	138.28199	351.00424	159.63303	4.32623	0.1456554	0.24248616	2.5468972	21	7 24.9	21.0
328233 2008 FB_{55}	17.5	X	103.38295	12.98440	170.78300	2.38269	0.1301676	0.24160488	2.5530868	21	7 28.9	21.0
328234 2008 FX_{55}	16.8	X	11.33476	176.57190	190.26095	3.97068	0.1577508	0.25880348	2.4386865	21	12 6.6	19.4
328235 2008 FH_{58}	16.3	X	254.24610	330.83856	36.31661	22.49162	0.0152144	0.23391624	2.6087300	21	5 28.1	20.0
328236 2008 FD_{61}	15.8	X	89.24847	159.25215	39.49702	14.63452	0.0944602	0.23851325	2.5751017	21	8 1.4	19.6
328237 2008 FG_{62}	17.3	X	56.90129	347.52434	328.37894	2.20525	0.0732248	0.26271935	2.4143932	21	11 19.0	20.4
328238 2008 FC_{63}	16.9	X	248.29924	315.44273	126.20019	6.55746	0.0960989	0.25187798	2.4831860	21	8 26.9	20.1
328239 2008 FU_{64}	17.3	X	83.90954	51.35747	176.78661	4.18663	0.1368504	0.24359129	2.5391881	21	9 4.1	20.6
328240 2008 FH_{66}	16.7	X	232.51702	243.68412	182.24323	3.94669	0.1458115	0.24281786	2.5445772	21	7 9.3	20.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
328241 2008 FZ_{66}	17.4	X	1.79593	80.59093	204.42610	5.07799	0.1881939	0.23439398	2.6051841	21	7 11.7	19.7
328242 2008 FK_{67}	16.1	X	325.51630	28.83674	198.06980	12.76168	0.0596645	0.21948927	2.7218270	21	2 23.3	19.9
328243 2008 FU_{75}	16.7	X	324.29558	251.93176	25.10125	4.58546	0.1946596	0.22673942	2.6634918	21	4 11.6	19.8
328244 2008 FW_{76}	17.3	X	106.30351	151.48561	159.15959	12.91326	0.1743450	0.26988967	2.3714386	21	—	—
328245 2008 FF_{84}	17.7	X	198.65436	199.79713	311.44362	1.17846	0.1296219	0.25946196	2.4345587	21	9 25.6	21.2
328246 2008 FE_{90}	17.3	X	185.09776	237.44948	356.81615	5.22577	0.1078522	0.27379808	2.3488166	21	12 31.4	20.7
328247 2008 FM_{100}	16.4	X	238.61266	230.02920	177.79777	13.06291	0.2550788	0.24186703	2.5512417	21	6 13.6	20.9
328248 2008 FR_{103}	16.8	X	17.73933	158.57825	152.72043	5.98560	0.2639406	0.24084654	2.5584432	21	10 14.3	19.2
328249 2008 FL_{105}	17.4	X	32.36357	211.26221	70.64687	4.05413	0.1502617	0.24346609	2.5400586	21	9 9.5	20.2
328250 2008 FB_{107}	17.3	X	223.20359	93.65938	37.59221	6.65045	0.0643440	0.25660933	2.4525682	21	10 6.6	20.5
328251 2008 FO_{107}	17.2	X	336.11100	279.00593	64.47205	4.61644	0.1298697	0.24556344	2.5255748	21	8 22.8	19.8
328252 2008 FT_{107}	16.7	X	46.71805	28.98050	187.09292	15.09829	0.0635667	0.23550993	2.5969479	21	6 14.5	20.2
328253 2008 FX_{111}	17.2	X	113.86162	325.60839	201.57018	13.66152	0.2008494	0.23878948	2.5731154	21	7 23.5	21.5
328254 2008 FM_{112}	17.0	X	59.86845	199.38438	142.65311	7.07901	0.1362542	0.27066631	2.3669000	21	—	—
328255 2008 FO_{126}	16.7	X	334.16447	147.86304	199.41651	12.11652	0.3046147	0.23909116	2.5709504	21	7 30.2	18.7
328256 2008 FP_{126}	16.9	X	121.20736	196.72740	62.05276	6.92799	0.1077253	0.25901989	2.4373280	21	11 23.1	20.3
328257 2008 FB_{128}	17.0	X	80.90155	260.42497	66.98444	6.37429	0.0905228	0.26356138	2.4092481	21	—	—
328258 2008 FN_{133}	17.0	X	324.84955	332.79254	10.49083	6.15319	0.0946361	0.24539310	2.5267435	21	8 3.9	19.9
328259 2008 FV_{136}	16.3	X	99.38010	133.93403	92.07141	5.22763	0.0182259	0.24658888	2.5185683	21	9 8.0	19.6
328260 2008 GQ_{5}	17.6	X	150.50264	137.14406	148.87981	5.04952	0.1900495	0.27178388	2.3604071	21	—	—
328261 2008 GV_{6}	16.6	X	187.93417	237.01051	160.00753	3.63200	0.0310347	0.22694172	2.6619087	21	4 19.2	20.2
328262 2008 GX_{13}	18.1	X	205.99661	75.26172	70.40269	2.21450	0.1341376	0.25836991	2.4414140	21	9 27.4	21.6
328263 2008 GX_{18}	16.8	X	148.05391	147.69181	79.95259	7.69172	0.0389231	0.25827217	2.4420299	21	11 13.2	20.0
328264 2008 GG_{20}	17.1	X	164.78988	313.41780	196.33781	5.33994	0.1041436	0.24667598	2.5179753	21	8 17.8	20.9
328265 2008 GE_{23}	17.1	X	5.73666	171.52530	161.97920	7.20844	0.1154693	0.25069383	2.4909994	21	10 3.7	19.6
328266 2008 GQ_{25}	17.9	X	92.77616	140.07488	148.43012	4.73450	0.1916005	0.25674918	2.4516775	21	12 7.7	21.8
328267 2008 GD_{31}	16.7	X	198.32547	163.66671	167.30955	6.50718	0.1030897	0.21685580	2.7438183	21	2 7.9	20.9
328268 2008 GP_{37}	17.0	X	93.34215	86.35941	79.86275	5.22069	0.0806344	0.23332736	2.6131175	21	6 15.3	20.2
328269 2008 GC_{39}	16.9	X	357.15681	110.64227	147.97300	4.69004	0.1046051	0.22878586	2.6475851	21	5 25.9	19.9
328270 2008 GJ_{44}	16.6	X	3.51511	260.68791	52.80104	15.58300	0.1526548	0.24258573	2.5462002	21	9 10.4	19.5
328271 2008 GY_{47}	16.8	X	102.43662	45.61151	90.65567	8.26809	0.0604036	0.22775646	2.6555567	21	5 16.8	20.3
328272 2008 GP_{48}	17.1	X	140.12599	222.90584	79.42390	3.56853	0.2065369	0.27419237	2.3465644	21	—	—
328273 2008 GT_{48}	17.3	X	71.18199	289.38679	17.47713	6.56669	0.1227620	0.26207861	2.4183269	21	11 30.8	20.8
328274 2008 GZ_{51}	17.0	X	67.94728	164.70864	189.04443	6.23110	0.0401673	0.26952725	2.3735639	21	—	—
328275 2008 GJ_{54}	17.2	X	218.92104	325.76481	54.23144	3.30103	0.0486154	0.22858424	2.6491418	21	5 3.1	21.0
328276 2008 GN_{63}	17.4	X	52.05137	184.05001	144.77036	4.28654	0.1562273	0.25831637	2.4417513	21	12 12.1	20.6
328277 2008 GY_{63}	17.7	X	89.49483	82.90533	199.61184	10.09763	0.2326846	0.25406149	2.4689378	21	11 30.6	21.8
328278 2008 GV_{68}	16.7	X	298.22411	135.66083	199.21646	16.84520	0.2450974	0.22858009	2.6491738	21	5 15.4	20.4
328279 2008 GA_{69}	17.0	X	133.85097	23.52995	98.66654	4.57521	0.1524260	0.23538082	2.5978975	21	6 14.5	21.0
328280 2008 GS_{69}	16.6	X	156.25681	313.04931	180.90826	12.21881	0.1082755	0.23961782	2.5671819	21	7 18.4	20.7
328281 2008 GP_{82}	16.7	X	37.28494	242.74458	43.98654	10.76787	0.0923006	0.24609091	2.5219647	21	9 19.3	19.8
328282 2008 GC_{87}	17.3	X	112.95483	173.05513	135.71537	3.03105	0.2327542	0.27001832	2.3706852	21	—	—
328283 2008 GJ_{91}	17.7	X	153.59376	94.89081	93.09060	1.65992	0.1346553	0.25263692	2.4782104	21	9 28.1	21.5
328284 2008 GR_{98}	16.4	X	16.01545	144.80014	178.48808	6.93793	0.3396703	0.23954670	2.5676900	21	11 10.9	18.9
328285 2008 GR_{101}	17.2	X	11.38003	175.35867	146.92267	4.23106	0.0626785	0.24681407	2.5170361	21	9 20.6	20.1
328286 2008 GS_{102}	16.9	X	261.32949	258.85711	110.20306	5.33661	0.0797358	0.23362696	2.6108830	21	6 6.4	20.4
328287 2008 GM_{109}	16.2	X	235.82895	270.03020	73.93064	11.20457	0.0692664	0.21956887	2.7211692	21	4 10.9	20.3
328288 2008 GQ_{109}	17.3	X	46.43500	45.28807	204.98607	9.20690	0.1623146	0.23623167	2.5916557	21	8 13.5	20.6
328289 2008 GK_{111}	16.5	X	311.22105	84.04341	203.32715	12.86358	0.1776656	0.22663702	2.6642940	21	4 8.0	19.7
328290 2008 GY_{113}	17.1	X	253.50269	254.57279	225.43683	4.32051	0.0650227	0.26073345	2.4266374	21	10 29.9	20.1
328291 2008 GV_{119}	17.2	X	37.97330	222.15295	68.72619	5.98605	0.2899232	0.23969244	2.5666491	21	10 23.9	20.2
328292 2008 GN_{123}	16.5	X	242.25328	189.90207	208.08109	7.50356	0.2660041	0.24255846	2.5463911	21	6 3.2	20.8
328293 2008 GZ_{128}	17.5	X	23.85106	245.23242	48.46015	5.67030	0.2848298	0.23803731	2.5785330	21	10 3.5	19.9
328294 2008 GJ_{129}	16.6	X	294.37442	205.50607	128.07114	7.40046	0.2785032	0.22961117	2.6412370	21	5 5.1	20.4
328295 2008 GP_{130}	16.9	X	131.22729	353.23830	139.42870	4.57759	0.1181194	0.23635142	2.5907802	21	6 22.1	20.7
328296 2008 GJ_{132}	16.6	X	318.33704	267.72048	87.05719	6.52947	0.1655807	0.23746543	2.5826712	21	7 29.9	19.2
328297 2008 GG_{133}	17.1	X	203.07429	314.00184	169.95258	0.88954	0.1269782	0.24742004	2.5129247	21	8 25.4	20.7
328298 2008 GN_{136}	17.0	X	14.22046	133.72118	183.10013	13.54623	0.1660279	0.24430638	2.5342309	21	9 28.2	19.4
328299 2008 GP_{137}	16.9	X	139.80661	71.17699	50.71260	22.64671	0.1275264	0.23809617	2.5781080	21	6 14.4	21.1
328300 2008 GR_{137}	16.9	X	145.73268	356.88187	165.25605	7.82174	0.1031252	0.24219396	2.5489453	21	8 13.9	20.8
328301 2008 GR_{138}	16.8	X	238.50103	203.00634	210.79010	2.36512	0.0829867	0.24055216	2.5605300	21	7 6.9	20.3
328302 2008 GU_{138}	16.8	X	311.46045	329.07263	55.27509	2.86796	0.1208155	0.25177374	2.4838713	21	9 7.5	19.3
328303 2008 GN_{142}	16.2	X	354.76677	246.80299	335.48265	11.58087	0.2777735	0.22591525	2.6699657	21	3 5.8	18.7
328304 2008 GQ_{144}	16.3	X	7.01548	189.59740	119.35094	8.66853	0.0332287	0.24524189	2.5277820	21	8 24.2	19.4
328305 Jackmcdevitt	16.7	X	29.23448	185.52147	115.67064	6.14565	0.2562856	0.24179619	2.5517400	21	10 20.5	19.5
328306 2008 HS_{10}	17.2	X	35.56170	64.07497	220.43387	5.98297	0.2070345	0.24029531	2.5623544	21	9 23.1	20.0
328307 2008 HT_{17}	17.1	X	23.05135	240.42663	72.91388	14.97743	0.2679076	0.24220957	2.5488358	21	10 31.9	19.9
328308 2008 HO_{19}	17.0	X	72.69661	62.06179	155.90531	11.06729	0.1259107	0.23765317	2.5813108	21	8 3.7	20.5
328309 2008 HT_{21}	15.9	X	336.52283	209.64611	93.34928	15.32984	0.2409796	0.22957568	2.6415092	21	6 6.7	18.2
328310 2008 HZ_{21}	16.2	X	4.71762	220.91306	47.47841	33.44202	0.2194109	0.23065413	2.6332690	21	6 12.0	19.0
328311 2008 HN_{32}	16.7	X	13.95747	231.46132	90.37950	5.52618	0.2615493	0.24199462	2.5503448	21	10 22.8	19.1
328312 2008 HJ_{33}	17.4	X	39.99152	177.69023	121.99997	6.52515	0.2171609	0.24305341	2.5429329	21	10 28.4	20.5
328313 2008 HU_{36}	17.0	X	288.76889	102.12459	204.05417	13.25900	0.1278829	0.22222629	2.6994322	21	4 11.5	20.7
328314 2008 HH_{55}	16.8	X	149.93253	355.54049	81.39470	4.09872	0.0817594	0.22453503	2.6808961	21	4 29.5	20.6
328315 2008 HJ_{55}	16.9	X	158.59477	48.92339	59.65393	12.61628	0.1363043	0.23492783	2.6012359	21	6 20.1	21.0
328316 2008 HB_{57}	16.4	X	358.37493	119.90036	152.85274	12.13682	0.0450090	0.23334658	2.6129740	21	6 18.9	19.8
328317 2008 HA_{59}	17.1	X	314.88056	309.40493	62.96293	5.20266	0.0184922	0.24587140	2.5234655	21	9 6.7	20.3
328318 2008 HX_{60}	16.7	X	28.37186	63.66178	219.41077	14.17228	0.0832963	0.24373273	2.5382057	21	8 17.2	20.0
328319 2008 JK_{7}	16.8	X	11.27993	180.15221	104.34368	10.52353	0.1566682	0.23515592	2.5995536	21	8 2.5	19.3
328320 2008 JN_{7}	16.7	X	143.98151	319.84115	179.02878	14.21456	0.0604218	0.23852691	2.5750034	21	7 8.6	20.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
328321 2008 JN_{10}	17.6	X	53.55978	105.02349	163.12286	5.51623	0.2251873	0.24263338	2.5458669	21	10 3.9	20.7
328322 2008 JX_{13}	16.2	X	76.17275	96.31314	167.67431	5.70295	0.0932442	0.24435697	2.5338811	21	10 7.9	19.5
328323 2008 JB_{15}	16.9	X	19.85594	126.37804	155.32703	4.86095	0.1482362	0.23752456	2.5822425	21	8 13.1	19.6
328324 2008 JR_{15}	16.9	X	110.90906	343.18426	182.64230	12.67474	0.0458821	0.23484517	2.6018463	21	7 2.1	20.7
328325 2008 JW_{15}	17.6	X	48.75966	7.26903	238.37711	1.47821	0.0945795	0.24094269	2.5577625	21	8 2.9	20.7
328326 2008 JK_{19}	17.4	X	203.38690	17.24074	96.81622	6.04075	0.1904923	0.25127671	2.4871457	21	8 10.8	21.4
328327 2008 JY_{25}	16.7	X	21.89939	130.48319	189.18504	14.40958	0.1604252	0.24341030	2.5404467	21	10 16.5	19.4
328328 2008 JJ_{26}	16.3	X	90.65410	305.77218	227.49474	30.69902	0.2750875	0.23475904	2.6024826	21	7 9.9	20.8
328329 2008 JC_{28}	16.1	X	177.99558	281.46057	212.45235	13.39035	0.0383170	0.24163044	2.5529067	21	8 8.9	20.0
328330 2008 JU_{28}	17.1	X	278.22624	194.97153	118.04679	5.06344	0.2332205	0.21846761	2.7303061	21	3 28.8	21.3
328331 2008 JT_{30}	16.2	X	245.03141	188.80194	142.10298	10.63125	0.1412375	0.21675614	2.7446593	21	3 27.9	20.5
328332 2008 JZ_{31}	16.4	X	155.89251	284.93722	230.59874	10.61122	0.1877670	0.24432230	2.5341208	21	8 15.0	20.8
328333 2008 JG_{34}	16.4	X	27.15647	179.45734	95.55151	15.43163	0.2632105	0.23622025	2.5917392	21	9 13.7	19.4
328334 2008 JO_{34}	16.4	X	346.86234	193.99633	120.74927	9.58375	0.1174669	0.23581084	2.5947382	21	7 28.3	18.9
328335 2008 JU_{35}	15.8	X	337.41110	220.34371	144.13700	12.88249	0.2914080	0.23938641	2.5688361	21	9 23.9	17.3
328336 2008 JZ_{35}	17.1	X	196.87518	9.47566	80.62823	4.71986	0.0878689	0.23712011	2.5851781	21	7 7.1	20.8
328337 2008 JX_{36}	16.6	X	266.31039	249.30425	136.21273	11.20636	0.0237701	0.23546634	2.5972684	21	7 13.2	20.1
328338 2008 JV_{39}	17.0	X	336.30369	107.18930	212.39662	4.31517	0.1079155	0.23536144	2.5980400	21	7 14.9	20.0
328339 2008 KU_{1}	17.1	X	12.60518	119.48697	184.56555	6.19048	0.0403928	0.23996531	2.5647029	21	8 22.3	20.3
328340 2008 KV_{1}	16.6	X	208.13518	273.57401	117.67624	7.12301	0.0480271	0.22438728	2.6820728	21	5 7.8	20.5
328341 2008 KP_{2}	16.6	X	248.59452	235.56072	97.43739	6.21069	0.0612996	0.22073008	2.7116171	21	4 10.0	20.5
328342 2008 KZ_{2}	17.0	X	12.40965	183.00005	135.34535	8.29702	0.2261474	0.23933604	2.5691965	21	10 8.7	19.4
328343 2008 KH_{6}	17.1	X	28.39644	10.01704	245.67304	3.46808	0.1650632	0.23451737	2.6042702	21	7 22.7	19.8
328344 2008 KP_{7}	17.8	X	12.88981	83.05661	205.14117	1.59115	0.1683915	0.23727216	2.5840735	21	8 10.9	20.2
328345 2008 KW_{12}	17.4	X	72.37397	6.17869	211.13370	4.05849	0.1138163	0.23748501	2.5825292	21	7 31.2	20.8
328346 2008 KX_{15}	16.2	X	158.44089	307.49915	181.13406	12.46865	0.1147267	0.23708849	2.5854079	21	7 14.2	20.4
328347 2008 KJ_{23}	17.1	X	353.09182	101.21458	207.78523	8.75988	0.2505928	0.23291722	2.6161842	21	7 26.9	19.1
328348 2008 KE_{31}	16.3	X	190.12504	162.12141	199.93806	13.35576	0.1231286	0.21229203	2.7830024	21	3 8.8	20.8
328349 2008 KF_{41}	17.5	X	340.27342	118.15889	196.26819	13.30878	0.1280828	0.23608297	2.5927438	21	7 11.4	20.6
328350 2008 LU_{2}	16.6	X	146.36812	79.15413	70.16222	15.25854	0.0507247	0.24029741	2.5623394	21	7 29.6	20.4
328351 2008 LY_{2}	16.9	X	273.96594	151.33292	143.73145	5.82002	0.0823587	0.21735422	2.7396221	21	3 18.9	20.7
328352 2008 LV_{7}	16.4	X	288.86635	155.76630	181.34701	13.88698	0.2696811	0.22457465	2.6805807	21	5 4.4	20.4
328353 2008 LG_{8}	16.3	X	80.54396	44.55930	169.11275	9.92316	0.1440358	0.23751773	2.5822920	21	8 10.8	19.9
328354 2008 LL_{15}	16.0	X	181.62773	347.73220	81.01631	16.72605	0.0474411	0.22733486	2.6588389	21	5 24.8	19.9
328355 2008 LZ_{16}	16.0	X	168.20313	261.70859	210.04305	11.71267	0.1337517	0.23523946	2.5989381	21	7 2.9	20.3
328356 2008 MT	15.9	X	6.48214	192.37454	107.83491	15.47213	0.2478583	0.22990235	2.6390064	21	8 28.9	18.2
328357 2008 NE_{2}	16.2	X	254.18150	16.23797	269.44939	4.02776	0.0739853	0.20394284	2.8584487	21	2 12.8	20.5
328358 2008 OE_{3}	15.9	X	258.35968	156.54812	181.13823	11.96371	0.2627818	0.20970094	2.8058803	21	4 6.3	20.5
328359 2008 OZ_{3}	16.3	X	297.95353	357.37504	295.41055	8.38127	0.2658748	0.21194527	2.7860371	21	3 14.3	20.6
328360 2008 OL_{4}	16.2	X	287.03264	129.09169	186.27462	14.77638	0.1736149	0.21247889	2.7813706	21	4 17.6	20.1
328361 2008 OX_{10}	15.2	X	204.70982	69.38310	254.01409	9.43289	0.1283476	0.19730540	2.9222009	21	2 5.5	20.0
328362 2008 OY_{10}	15.9	X	285.46867	45.69543	252.23055	6.94928	0.1896370	0.21063570	2.7975728	21	3 17.9	20.1
328363 2008 OX_{19}	15.8	X	157.20518	159.40539	156.29375	10.79370	0.0261235	0.18209461	3.0827477	21	—	—
328364 2008 OH_{24}	15.8	X	104.76041	176.39163	157.45602	11.42914	0.0673750	0.17558937	3.1584250	21	—	—
328365 2008 PN_{6}	15.9	X	293.24625	354.13370	276.90593	12.93242	0.1976896	0.20925832	2.8098355	21	2 18.1	20.3
328366 2008 PY_{21}	15.6	X	99.60014	221.64284	146.47305	11.57317	0.0764355	0.18067887	3.0988303	21	—	—
328367 2008 QR_{7}	15.6	X	73.53242	265.85884	136.42119	12.08536	0.1826007	0.17992340	3.1074987	21	—	—
328368 2008 QT_{10}	15.9	X	108.82015	159.45391	170.82805	10.53071	0.1530795	0.17340024	3.1849522	21	—	—
328369 2008 QJ_{16}	15.6	X	156.97641	215.68418	126.52809	13.77427	0.1810421	0.18611896	3.0381483	21	1 23.4	20.5
328370 2008 QY_{17}	15.8	X	82.21066	163.37719	205.35871	9.66145	0.0708486	0.17689882	3.1428194	21	—	—
328371 2008 QP_{18}	16.1	X	217.55539	65.49758	195.42606	15.15273	0.0380870	0.18425714	3.0585799	21	—	—
328372 2008 QH_{19}	17.0	X	313.46115	125.52129	180.55425	8.57554	0.2969491	0.21717009	2.7411704	21	4 20.3	20.4
328373 2008 QG_{21}	15.5	X	163.48130	356.17417	296.80670	9.98234	0.0721542	0.17931207	3.1145576	21	—	—
328374 2008 QG_{26}	16.8	X	286.95153	157.88287	144.42624	8.75655	0.2105050	0.21019053	2.8015214	21	3 28.4	20.9
328375 2008 QR_{27}	15.2	X	172.37511	205.44246	132.37815	10.92714	0.0271849	0.18932827	3.0037174	21	1 20.7	19.5
328376 2008 QH_{28}	15.6	X	156.21676	208.96428	120.08436	10.25719	0.1299091	0.18377324	3.0639466	21	1 3.6	20.4
328377 2008 QH_{48}	16.0	X	175.25076	86.58854	184.76943	25.56643	0.2183546	0.17962279	3.1109648	21	—	—
328378 2008 RD_{8}	15.7	X	260.96962	18.30871	193.74635	12.69002	0.1142071	0.18045167	3.1014309	21	—	—
328379 2008 RO_{31}	16.0	X	94.29414	167.35309	173.36676	11.56822	0.1105618	0.17167314	3.2062778	21	—	—
328380 2008 RP_{40}	16.6	X	177.23523	161.13602	174.70324	6.40673	0.2196081	0.18833273	3.0142934	21	2 2.8	21.8
328381 2008 RK_{41}	14.0	X	293.74877	96.03513	8.29858	7.27466	0.0789948	0.08129541	5.2774649	21	10 31.8	20.9
328382 2008 RT_{46}	16.0	X	198.63286	78.47063	187.96572	3.71534	0.0600751	0.17556756	3.1586865	21	—	—
328383 2008 RR_{56}	15.5	X	2.45598	248.70496	186.33886	13.54064	0.0354211	0.17040828	3.2221241	21	—	—
328384 2008 RA_{63}	15.6	X	149.28868	181.88700	163.47434	9.73718	0.1292382	0.18411427	3.0601620	21	1 14.5	20.4
328385 2008 RL_{74}	16.3	X	160.06386	309.47223	8.03866	5.85696	0.2861788	0.18341684	3.0679145	21	1 6.9	21.6
328386 2008 RE_{83}	16.5	X	159.02328	99.31823	207.14200	3.37514	0.0980824	0.18126458	3.0921514	21	—	—
328387 2008 RC_{90}	16.4	X	237.46443	49.47687	220.99470	7.66798	0.1516497	0.18703323	3.0282394	21	1 7.8	21.4
328388 2008 RD_{97}	16.3	X	187.78039	296.84427	356.53340	3.22154	0.2356943	0.18188070	3.0851643	21	—	—
328389 2008 RK_{98}	16.0	X	13.15226	211.39469	71.64940	18.77497	0.2974276	0.22647817	2.6655397	21	8 31.7	18.6
328390 2008 RP_{101}	16.0	X	44.70001	211.44904	177.47343	13.12300	0.0512523	0.16998569	3.2274620	21	—	—
328391 2008 RT_{105}	15.4	X	71.14822	252.97228	110.83538	6.53001	0.1409271	0.16931358	3.2359976	21	—	—
328392 2008 RF_{113}	16.0	X	208.89912	118.10851	197.16940	13.63514	0.1116082	0.19050355	2.9913507	21	2 1.0	21.0
328393 2008 RY_{118}	14.9	X	116.84478	239.61285	89.12625	27.97317	0.2911580	0.17524922	3.1625106	21	—	—
328394 2008 RT_{124}	16.4	X	208.72965	268.94871	8.73287	1.54350	0.1123327	0.18534245	3.0466281	21	—	—
328395 2008 RC_{129}	15.5	X	115.66759	287.69113	34.63562	18.18416	0.1728392	0.17250630	3.1959458	21	—	—
328396 2008 RF_{132}	15.7	X	167.37400	206.23270	142.82197	13.84253	0.1568458	0.18765854	3.0215085	21	2 7.5	20.4
328397 2008 RD_{139}	15.4	X	150.21585	81.74169	243.88247	10.81080	0.1294584	0.18081183	3.0973111	21	—	—
328398 2008 RN_{143}	16.2	X	191.16789	99.75038	191.97737	11.12401	0.1228773	0.18339550	3.0681524	21	—	—
328399 2008 SW_{3}	15.7	X	295.11249	286.73448	26.55822	7.50575	0.2942144	0.21173548	2.7878771	21	4 7.1	19.6
328400 2008 SM_{30}	16.0	X	282.77492	122.58755	155.02139	12.98625	0.0761964	0.20409617	2.8570169	21	3 9.6	19.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
328401 2008 SO_{30}	15.6	X	113.37930	36.96411	299.86956	7.45095	0.1375826	0.17309109	3.1887434	21	—	—
328402 2008 SF_{34}	15.7	X	69.22174	202.81857	162.42177	6.29368	0.1508505	0.17098834	3.2148327	21	—	—
328403 2008 SE_{47}	15.8	X	186.20350	291.60192	25.21570	12.62497	0.2481648	0.18525530	3.0475836	21	1 25.5	21.3
328404 2008 SH_{48}	15.4	X	257.25273	129.64951	353.34199	9.97901	0.0360685	0.15759938	3.3944263	21	10 24.3	20.3
328405 2008 SG_{52}	16.2	X	155.44503	98.17587	198.52983	3.14009	0.1214025	0.17420946	3.1750816	21	—	—
328406 2008 SR_{54}	16.4	X	174.62621	82.34550	191.18717	7.40806	0.1626084	0.17397390	3.1779470	21	—	—
328407 2008 SH_{61}	15.0	X	120.00261	10.23193	319.29615	23.30417	0.2539371	0.17597993	3.1537502	21	—	—
328408 2008 SV_{63}	16.0	X	150.63648	112.13636	218.19125	4.90696	0.1419491	0.17927088	3.1150346	21	1 1.1	20.8
328409 2008 SH_{75}	16.5	X	166.02597	28.99422	289.67643	2.77178	0.1326314	0.18257317	3.0773584	21	1 1.6	21.3
328410 2008 SN_{78}	16.6	X	137.78484	33.85787	314.70566	3.16907	0.1928955	0.18166263	3.0876328	21	1 15.2	21.4
328411 2008 SS_{89}	16.3	X	176.66275	68.52246	181.96244	5.15496	0.0817332	0.17353822	3.1832637	21	12 25.1	21.2
328412 2008 SK_{94}	16.2	X	265.26736	124.22437	184.52225	12.84788	0.1814163	0.20365443	2.8611468	21	3 14.7	20.8
328413 2008 ST_{106}	15.3	X	115.38921	318.43198	26.69508	23.79950	0.1654963	0.17444121	3.1722688	21	—	—
328414 2008 SP_{126}	15.1	X	136.66037	244.35147	246.72017	3.67708	0.1237726	0.12585466	3.9435727	21	6 27.2	21.0
328415 2008 SZ_{157}	16.1	X	130.05958	170.75336	183.76682	9.99637	0.1088410	0.18091295	3.0961568	21	1 3.3	20.8
328416 2008 SC_{158}	15.6	X	109.12806	182.50007	185.76786	15.31876	0.2269348	0.17868794	3.1218059	21	1 10.8	20.3
328417 2008 SB_{161}	16.1	X	142.25014	312.80062	7.70863	10.90134	0.1617379	0.17761990	3.1343077	21	—	—
328418 2008 SZ_{164}	16.7	X	310.09141	118.41492	189.40030	19.26929	0.3607008	0.21371503	2.7706351	21	4 7.7	20.3
328419 2008 SM_{174}	15.8	X	207.94430	306.65000	340.46413	13.90760	0.1885232	0.18546623	3.0452725	21	1 5.9	21.2
328420 2008 SC_{213}	16.4	X	343.83531	49.47151	355.22574	1.65405	0.0349934	0.15942275	3.3684945	21	11 11.6	21.1
328421 2008 SA_{238}	15.7	X	137.55109	295.05854	30.73877	4.77346	0.1584072	0.17619471	3.1511867	21	—	—
328422 2008 SY_{250}	16.3	X	228.68393	205.21036	53.25196	0.94920	0.1643990	0.18212731	3.0823787	21	—	—
328423 2008 SP_{253}	15.0	X	117.37093	293.56200	54.80468	14.22881	0.2085067	0.17497817	3.1657756	21	—	—
328424 2008 SR_{255}	15.7	X	178.70557	149.15106	131.38260	4.98916	0.1134390	0.17303504	3.1894320	21	—	—
328425 2008 SZ_{278}	14.9	X	106.60991	186.06393	65.79298	10.92618	0.0310616	0.14647326	3.5642144	21	10 13.5	20.1
328426 2008 SW_{279}	16.9	X	192.58780	296.03853	7.39733	5.46110	0.1347902	0.18572541	3.0424386	21	1 8.9	21.8
328427 2008 SX_{285}	15.6	X	137.41326	211.97478	117.54099	11.68169	0.2165099	0.17644128	3.1482503	21	—	—
328428 2008 SZ_{293}	15.6	X	186.34861	143.32801	160.98774	12.79178	0.1220061	0.18384372	3.0631636	21	1 2.7	20.6
328429 2008 SK_{299}	15.9	X	187.54430	99.08092	184.06222	8.00873	0.2142464	0.17862589	3.1225288	21	—	—
328430 2008 TG_{4}	16.1	X	223.97220	113.05419	195.13171	10.68423	0.1401239	0.19191555	2.9766603	21	2 6.5	21.0
328431 2008 TK_{4}	15.9	X	148.43436	151.22368	194.43333	11.49366	0.1182766	0.18199152	3.0839118	21	1 12.4	20.8
328432 Thomasposch	16.0	X	139.75825	265.85818	29.68147	3.56932	0.1482824	0.17089339	3.2160235	21	—	—
328433 2008 TW_{11}	15.7	X	210.41125	50.30620	190.85467	15.72718	0.0501581	0.17349766	3.1837599	21	—	—
328434 2008 TM_{15}	15.5	X	218.29644	63.98812	198.05759	10.95854	0.1329312	0.18138444	3.0907890	21	—	—
328435 2008 TZ_{16}	15.8	X	129.69878	95.71660	222.00837	14.65191	0.1747215	0.16953101	3.2332301	21	—	—
328436 2008 TC_{21}	16.5	X	150.82318	299.87037	5.70227	0.30565	0.1745458	0.17160492	3.2071276	21	—	—
328437 2008 TH_{24}	15.7	X	100.52163	179.53545	202.72934	17.98301	0.2054956	0.17761827	3.1343269	21	1 12.9	20.4
328438 2008 TF_{32}	15.9	X	125.62800	135.68464	194.36569	5.48882	0.1574665	0.17218999	3.1998586	21	—	—
328439 2008 TW_{32}	15.3	X	158.85208	276.84233	37.81458	10.48737	0.1945994	0.17782968	3.1318423	21	—	—
328440 2008 TT_{34}	15.4	X	259.84450	77.21011	3.58509	9.64337	0.0792481	0.14568280	3.5770955	21	9 5.1	20.5
328441 2008 TR_{54}	16.3	X	170.82869	286.79842	359.97917	2.02260	0.1597485	0.17490786	3.1666240	21	—	—
328442 2008 TX_{58}	15.4	X	111.94161	76.49496	71.01778	2.57956	0.0616181	0.12665208	3.9270024	21	6 14.4	21.1
328443 2008 TT_{62}	15.1	X	171.44916	209.62079	25.57653	8.36247	0.0540015	0.16007250	3.3593730	21	11 29.9	20.2
328444 2008 TQ_{68}	15.9	X	102.10488	305.17164	41.39562	14.86965	0.2031515	0.17007608	3.2263184	21	—	—
328445 2008 TD_{71}	15.1	X	171.86793	269.77799	184.45445	8.95518	0.0903811	0.12546600	3.9517125	21	6 16.9	21.2
328446 2008 TX_{87}	15.6	X	182.01883	242.87989	49.96560	10.56149	0.2047246	0.17815458	3.1280334	21	—	—
328447 2008 TT_{92}	16.5	X	214.30298	282.28481	16.83329	10.02306	0.2601472	0.19038832	2.9925576	21	1 23.9	22.0
328448 2008 TN_{100}	15.4	X	145.28797	142.73849	191.98817	27.42739	0.1444361	0.18175387	3.0865994	21	—	—
328449 2008 TB_{103}	15.3	X	110.06384	127.51193	220.38157	16.22240	0.1862754	0.17537875	3.1609532	21	—	—
328450 2008 TH_{111}	16.1	X	176.98902	85.56982	251.44175	4.16739	0.1995835	0.18529896	3.0471048	21	2 3.3	21.3
328451 2008 TQ_{113}	14.8	X	189.04271	330.06321	101.27624	3.76605	0.1291204	0.12509190	3.9595873	21	6 6.6	20.9
328452 2008 TB_{122}	15.4	X	175.12898	72.92889	238.61505	15.56210	0.1041341	0.18056302	3.1001557	21	—	—
328453 2008 TS_{170}	15.4	X	187.64085	62.40140	228.81896	25.54240	0.2885994	0.17609892	3.1523294	21	—	—
328454 2008 TY_{175}	14.8	X	113.56377	301.70210	196.92292	13.83416	0.1163448	0.12598850	3.9407792	21	6 12.3	20.8
328455 2008 TX_{179}	16.0	X	209.04033	206.97160	147.58315	16.38685	0.2462774	0.19484402	2.9467593	21	3 23.6	21.3
328456 2008 UG_{4}	16.0	X	154.33987	212.58996	142.18714	9.04975	0.3216096	0.18339183	3.0681934	21	2 14.8	21.5
328457 2008 UF_{98}	15.1	X	103.35010	297.54052	60.58816	27.22677	0.2205202	0.17092149	3.2156709	21	—	—
328458 2008 UF_{106}	16.6	X	212.38113	104.95281	207.17607	10.43433	0.1930266	0.19077635	2.9884983	21	1 31.5	21.9
328459 2008 UH_{106}	15.6	X	174.09734	83.57809	204.18300	15.12854	0.0455545	0.17457716	3.1706217	21	—	—
328460 2008 UN_{110}	15.5	X	167.33464	69.32013	252.89895	7.15141	0.3376443	0.18187416	3.0852383	21	1 17.8	21.1
328461 2008 US_{159}	15.4	X	145.63654	289.12429	56.74130	26.48122	0.2581512	0.17639145	3.1488432	21	1 31.7	21.0
328462 2008 UM_{189}	16.3	X	214.39694	285.69882	17.73592	9.73771	0.1755858	0.19004024	2.9962106	21	1 29.6	21.4
328463 2008 UJ_{202}	15.9	X	181.93810	172.35072	169.29863	8.65340	0.2609399	0.18702678	3.0283090	21	2 14.6	21.4
328464 2008 UY_{365}	14.3	X	174.58798	37.69831	232.69690	31.78616	0.0485706	0.17022720	3.2244086	21	—	—
328465 2008 VO_{20}	15.2	X	178.13627	230.39635	67.73986	15.12870	0.2752481	0.17434621	3.1734211	21	—	—
328466 2008 VW_{24}	16.1	X	149.13994	204.34221	109.24874	2.38543	0.1381092	0.17289381	3.1911686	21	—	—
328467 2008 WP_{42}	15.5	X	142.14119	264.35244	63.14669	26.51848	0.2333266	0.17136522	3.2101175	21	—	—
328468 2008 YY_{31}	17.2	X	317.74980	303.88378	116.20990	27.74175	0.1459724	0.37614699	1.9006303	21	12 24.9	18.5
328469 2009 BR_{96}	18.0	X	55.17349	258.41725	135.59603	24.57544	0.1038519	0.38890616	1.8588293	21	—	—
328470 2009 CU_{2}	17.6	X	1.19978	251.06151	141.26764	24.27961	0.0964553	0.37644720	1.8996197	21	—	—
328471 2009 CZ_{57}	17.2	X	341.82719	181.82768	173.17893	22.98927	0.0819728	0.35853605	1.9623697	21	10 9.7	18.7
328472 2009 DM_{44}	17.4	X	239.48631	134.23644	6.73178	20.20300	0.0676728	0.37074087	1.9190623	21	11 21.6	19.7
328473 2009 FW_{56}	17.3	X	255.88700	45.09474	56.65321	21.86380	0.0880654	0.36346821	1.9445768	21	10 28.9	19.2
328474 2009 FC_{59}	17.5	X	237.39838	22.76693	113.41600	2.91320	0.1646878	0.28422570	2.2910109	21	10 20.3	20.4
328475 2009 HJ_{2}	15.2	X	31.76313	169.32261	73.66004	18.91957	0.1478286	0.17571073	3.1569705	21	7 7.9	19.1
328476 2009 HD_{9}	18.2	X	245.72273	359.05769	271.86987	1.03315	0.1837435	0.30673250	2.1775235	21	—	—
328477 Eckstein	18.3	X	118.53564	278.32512	344.70092	0.78110	0.1633663	0.27710377	2.3300993	21	11 30.3	22.0
328478 2009 HH_{64}	17.5	X	222.08665	246.79329	58.94965	5.51583	0.0929967	0.30835461	2.1698802	21	1 18.9	20.4
328479 2009 HL_{103}	17.3	X	124.53681	280.50602	87.03572	6.71738	0.0697558	0.30005443	2.2097138	21	—	—
328480 2009 JW_{14}	17.8	X	82.28559	204.42479	232.58604	4.49678	0.0862854	0.30647184	2.1787580	21	1 10.3	19.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
328481 2009 KA_{17}	17.6	X	183.27222	212.80000	131.21393	3.77657	0.1545264	0.30580449	2.1819266	21	1 30.5	20.6
328482 2009 KK_{20}	17.7	X	21.99825	321.33888	107.19965	3.89082	0.1400637	0.29130794	2.2537263	21	—	—
328483 2009 LZ_{5}	18.5	X	199.13853	203.49849	97.96537	3.16953	0.2479864	0.29300579	2.2450115	21	—	—
328484 2009 MJ_{5}	17.2	X	203.82296	153.50684	122.43598	4.61544	0.1032941	0.28885655	2.2664592	21	—	—
328485 2009 MO_{5}	18.3	X	270.86717	161.69500	130.20826	3.16877	0.2520272	0.30731826	2.1747557	21	2 10.4	21.7
328486 2009 MH_{7}	17.9	X	191.19740	91.22493	160.12236	9.79068	0.2322905	0.28606273	2.2811921	21	—	—
328487 2009 MX_{8}	16.9	X	3.79609	220.78547	118.59079	3.30268	0.2210186	0.25411085	2.4686181	21	10 22.9	19.0
328488 2009 MY_{9}	17.5	X	107.76063	9.13753	280.18310	2.26538	0.1736524	0.26777109	2.3839305	21	12 22.0	21.0
328489 2009 OP_{1}	18.3	X	143.84808	14.78791	271.41284	0.55123	0.1911799	0.27576328	2.3376443	21	—	—
328490 2009 ON_{2}	16.6	X	32.43646	36.60359	298.78103	3.08893	0.1301470	0.25943560	2.4347236	21	11 20.0	19.6
328491 2009 OX_{4}	17.7	X	168.81217	182.59801	133.06365	7.26544	0.1947747	0.28563818	2.2834520	21	—	—
328492 2009 OC_{6}	17.1	X	58.54356	174.05007	147.02870	7.39599	0.2257803	0.26191357	2.4193427	21	12 18.9	20.7
328493 2009 OJ_{17}	16.4	X	304.44122	59.56801	279.14653	11.41149	0.0654582	0.23740709	2.5830943	21	6 26.3	19.4
328494 2009 OX_{20}	17.1	X	88.08046	295.89271	352.37304	4.50037	0.2246492	0.26398626	2.4066623	21	12 5.4	20.9
328495 2009 OZ_{24}	17.2	X	35.54806	138.61761	204.53239	2.00938	0.1857369	0.25986010	2.4320713	21	12 14.4	20.1
328496 2009 PQ_{3}	17.0	X	23.64846	126.01345	218.63475	5.94532	0.1592090	0.25732271	2.4480332	21	11 25.2	19.7
328497 2009 PR_{4}	15.6	X	115.43864	83.68760	319.18429	13.78251	0.1535761	0.20503557	2.8482837	21	2 14.9	19.7
328498 2009 PG_{7}	17.7	X	191.11369	37.54692	257.45198	2.49217	0.2072285	0.28819234	2.2699403	21	—	—
328499 2009 PU_{11}	17.7	X	62.42786	317.13521	359.32325	2.01197	0.2199608	0.26008357	2.4306780	21	12 15.6	21.2
328500 2009 PR_{13}	18.3	X	211.33185	126.00394	169.36403	4.56378	0.1842049	0.29288817	2.2456125	21	—	—
328501 2009 PQ_{14}	16.8	X	145.41676	301.85065	349.68892	7.34944	0.1530830	0.27356804	2.3501332	21	—	—
328502 2009 PW_{14}	17.2	X	177.88227	13.62400	267.65775	3.68384	0.1611318	0.28108952	2.3080202	21	—	—
328503 2009 PD_{15}	17.8	X	115.07458	149.48278	162.24843	1.26057	0.2003076	0.27254673	2.3560006	21	—	—
328504 2009 PP_{15}	16.5	X	180.08170	190.31892	190.63038	5.82670	0.0612063	0.21368322	2.7709101	21	3 21.3	20.5
328505 2009 PM_{16}	16.3	X	207.99338	253.95107	172.13940	5.60014	0.0261516	0.23011595	2.6373731	21	6 21.2	20.0
328506 2009 PH_{17}	16.9	X	197.65937	157.57226	154.62483	2.42206	0.0603880	0.20387121	2.8591182	21	1 17.2	21.0
328507 2009 QV_{7}	15.7	X	335.71462	228.82434	188.61142	9.09200	0.0642761	0.17450986	3.1714369	21	11 21.0	19.9
328508 2009 QH_{9}	17.9	X	102.74599	358.03611	346.00196	1.74957	0.3053692	0.27370516	2.3493482	21	—	—
328509 2009 QC_{10}	17.2	X	49.72229	3.65326	348.95700	0.94701	0.1976162	0.26398009	2.4066998	21	—	—
328510 2009 QA_{11}	17.4	X	129.05727	177.29755	147.14132	6.07123	0.1891001	0.27582918	2.3372719	21	—	—
328511 2009 QF_{11}	17.5	X	96.50339	213.31394	138.89606	4.22186	0.1895096	0.27260405	2.3556703	21	—	—
328512 2009 QR_{11}	17.7	X	114.65104	189.02307	118.32331	3.69385	0.1902580	0.27228566	2.3575063	21	—	—
328513 2009 QP_{12}	17.6	X	90.17032	49.18302	249.47890	1.96324	0.2166908	0.26351223	2.4095477	21	12 19.8	21.5
328514 2009 QT_{15}	17.7	X	140.86924	145.81360	144.53842	1.76628	0.1759083	0.27160613	2.3614369	21	—	—
328515 2009 QR_{19}	17.7	X	91.87412	21.68439	278.83364	0.55543	0.1634677	0.26568551	2.3963898	21	12 20.2	21.4
328516 2009 QA_{20}	17.0	X	142.64416	294.02607	319.77167	4.11756	0.1080378	0.26649100	2.3915586	21	12 9.4	20.6
328517 2009 QN_{20}	17.5	X	93.85373	110.94451	202.17338	3.82554	0.1765401	0.26560067	2.3969001	21	—	—
328518 2009 QF_{22}	17.2	X	78.32138	188.23958	128.32854	2.03221	0.1974597	0.26378048	2.4079139	21	12 29.5	20.9
328519 2009 QZ_{23}	17.4	X	122.76479	101.69185	176.39754	4.20131	0.1444225	0.26937800	2.3744406	21	12 21.3	21.2
328520 2009 QK_{24}	17.0	X	95.74146	111.75056	187.27799	6.36687	0.2093127	0.26547077	2.3976820	21	12 24.6	20.9
328521 2009 QA_{29}	17.1	X	60.12232	301.69803	40.04428	5.60257	0.2399329	0.26425014	2.4050599	21	—	—
328522 2009 QC_{38}	16.9	X	303.18646	192.67270	163.37945	15.31763	0.1390473	0.23647383	2.5898861	21	7 6.8	20.3
328523 2009 QY_{47}	16.6	X	261.20801	189.55970	156.08179	7.69530	0.2981791	0.22597424	2.6695010	21	4 15.4	21.2
328524 2009 QB_{53}	16.6	X	134.50766	267.46979	94.85505	22.29319	0.2187594	0.28476796	2.2881016	21	1 12.3	19.5
328525 2009 QC_{56}	15.9	X	317.03085	257.91383	189.55661	11.27028	0.1085522	0.17510621	3.1642322	21	11 29.5	20.0
328526 2009 QR_{57}	16.7	X	232.60226	337.64020	18.13743	5.17253	0.0483060	0.22110839	2.7085233	21	4 17.7	20.4
328527 2009 QV_{58}	17.0	X	9.98785	220.99273	23.62109	3.71213	0.0470610	0.22762004	2.6566176	21	5 26.5	20.1
328528 2009 QK_{60}	16.3	X	137.02288	264.87854	111.46354	5.82237	0.1307837	0.20299575	2.8673327	21	2 6.3	20.4
328529 2009 QA_{62}	17.1	X	72.54814	250.36645	86.92208	5.30525	0.2591224	0.26541443	2.3980212	21	—	—
328530 2009 QX_{62}	17.7	X	169.90076	107.36266	164.39340	9.58150	0.1733512	0.27568400	2.3380924	21	—	—
328531 2009 RM_{4}	16.7	X	294.66198	35.91048	300.38898	4.01031	0.0642997	0.23347985	2.6119796	21	6 8.2	20.0
328532 2009 RD_{12}	16.8	X	266.26282	302.95490	9.77666	6.37561	0.0579611	0.21714054	2.7414191	21	4 2.5	20.7
328533 2009 RH_{14}	16.4	X	291.37446	119.41108	189.70875	5.50935	0.0594755	0.22182869	2.7026568	21	4 30.3	19.9
328534 2009 RE_{17}	16.6	X	196.55944	202.96156	172.21164	5.33538	0.0354918	0.21356515	2.7719313	21	4 2.5	20.5
328535 2009 RL_{18}	16.4	X	97.97178	244.99306	122.20128	2.35481	0.2471012	0.18900446	3.0071471	21	—	—
328536 2009 RQ_{20}	17.0	X	248.29480	160.77377	194.90091	4.64434	0.1301874	0.22082115	2.7108716	21	4 29.3	21.0
328537 2009 RU_{23}	17.0	X	76.87858	295.14079	165.34159	2.27717	0.0440267	0.20613938	2.8381068	21	2 22.6	20.8
328538 2009 RQ_{25}	15.5	X	21.37914	247.09424	189.96186	13.89686	0.1087988	0.18294258	3.0732143	21	—	—
328539 2009 RZ_{28}	15.7	X	45.58521	15.94871	345.09860	8.70262	0.0729968	0.17614254	3.1518089	21	12 15.4	20.2
328540 2009 RJ_{31}	16.2	X	319.44024	209.44516	226.04156	4.56095	0.1429875	0.16961484	3.2321648	21	11 13.7	19.9
328541 2009 RW_{33}	16.4	X	45.80800	228.51376	18.13687	4.88791	0.2095534	0.23395852	2.6084157	21	8 20.9	19.3
328542 2009 RR_{34}	16.8	X	302.01317	96.42996	200.31445	14.86931	0.0830341	0.21978253	2.7194053	21	4 24.8	20.4
328543 2009 RZ_{34}	15.7	X	61.76117	52.79841	22.82192	11.26654	0.0729212	0.19227758	2.9729227	21	1 9.6	19.7
328544 2009 RO_{35}	16.6	X	190.09934	183.83609	194.42497	9.87081	0.2247886	0.21143994	2.7904743	21	4 1.5	21.4
328545 2009 RV_{35}	16.0	X	11.10786	233.30768	201.81723	14.96567	0.0880415	0.17989188	3.1078617	21	—	—
328546 2009 RY_{41}	16.7	X	234.30022	22.24213	311.90408	5.50432	0.0537954	0.21435811	2.7650910	21	3 21.5	20.8
328547 2009 RK_{49}	16.3	X	328.19137	241.08053	201.52093	14.46698	0.0684820	0.17335161	3.1855478	21	12 9.9	20.7
328548 2009 RL_{50}	16.3	X	178.94448	30.41443	201.55544	9.01250	0.0454541	0.17512026	3.1640630	21	12 8.8	21.1
328549 2009 RK_{56}	16.2	X	86.13923	328.84177	111.44888	3.11824	0.0375296	0.19955193	2.9002277	21	2 10.6	20.1
328550 2009 RC_{57}	16.0	X	29.78584	346.78629	63.56376	5.98271	0.0483102	0.17951764	3.1121795	21	—	—
328551 2009 RE_{59}	16.7	X	219.06490	171.50384	180.59138	4.21885	0.0870345	0.21529357	2.7570756	21	3 28.0	20.7
328552 2009 RM_{60}	16.3	X	352.40276	2.76767	280.66007	10.58450	0.0465645	0.23437160	2.6053499	21	6 23.9	19.5
328553 2009 RN_{60}	17.0	X	77.79754	115.44812	228.67502	7.57733	0.2475248	0.26772853	2.3841832	21	—	—
328554 2009 RG_{63}	17.3	X	142.75420	8.15237	302.33465	1.54326	0.2132524	0.27516818	2.3410134	21	—	—
328555 2009 RH_{69}	16.4	X	15.18540	90.11383	243.48017	6.75801	0.0643164	0.25074652	2.4906504	21	10 9.5	19.4
328556 2009 RF_{72}	17.8	X	37.42253	253.37343	27.88849	7.04904	0.1733300	0.24158257	2.5532440	21	9 20.8	20.7
328557 2009 RB_{73}	16.7	X	208.66635	55.53370	296.54923	4.98805	0.0655281	0.21216278	2.7841326	21	3 15.1	21.0
328558 2009 RS_{73}	16.7	X	297.38547	91.58475	9.00806	11.61138	0.1353710	0.17115452	3.2127516	21	11 7.6	20.9
328559 2009 RY_{73}	15.9	X	47.76832	12.78864	5.06475	12.55141	0.0906921	0.18082443	3.0971671	21	—	—
328560 2009 RK_{74}	17.3	X	88.10219	262.16092	37.82321	3.54996	0.1905721	0.26181736	2.4199353	21	12 17.3	21.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
328561 2009 RW_{74}	17.4	X	106.70685	255.39767	63.44890	3.10126	0.2048194	0.27042255	2.3683222	21	—	—
328562 2009 RX_{74}	16.4	X	192.25971	254.32585	150.18779	11.02382	0.1604100	0.22045160	2.7139002	21	5 7.6	21.0
328563 Mosplanetarium	16.8	X	78.12121	71.93536	245.10892	8.45286	0.3219486	0.26199138	2.4188636	21	—	—
328564 2009 SA_{9}	16.8	X	277.89937	91.77661	184.87589	24.70512	0.1502148	0.21706617	2.7420453	21	2 15.7	21.2
328565 2009 SH_{12}	17.6	X	107.91101	111.88805	186.63880	2.33430	0.1966113	0.26614365	2.3936390	21	—	—
328566 2009 SO_{16}	18.0	X	177.95266	309.33213	333.29002	2.07630	0.1788241	0.27983915	2.3148902	21	—	—
328567 2009 ST_{16}	15.4	X	330.66273	308.13132	187.16412	11.82932	0.0784049	0.18729570	3.0254095	21	—	—
328568 2009 SB_{19}	16.8	X	77.06648	221.06348	207.71959	1.57983	0.0649441	0.20027085	2.8932828	21	1 17.4	20.4
328569 2009 SU_{22}	17.9	X	117.67948	87.03780	239.24568	4.12200	0.1860523	0.27581729	2.3373391	21	—	—
328570 2009 SR_{23}	17.1	X	241.74371	152.51618	169.47552	1.91226	0.0793041	0.21821854	2.7323833	21	3 14.9	21.2
328571 2009 SY_{26}	17.4	X	60.47203	336.62600	358.79256	4.12952	0.2050994	0.26036943	2.4288986	21	—	—
328572 2009 SD_{27}	16.7	X	79.27074	227.59920	188.91418	11.59665	0.0416428	0.19592746	2.9358860	21	1 2.8	20.9
328573 2009 SJ_{27}	17.1	X	274.07330	175.77129	188.23025	6.34487	0.2361565	0.23083910	2.6318621	21	5 25.4	21.1
328574 2009 SP_{29}	16.6	X	235.58062	312.76037	17.05060	8.29043	0.0581502	0.21283373	2.7782783	21	3 21.4	20.6
328575 2009 SB_{35}	17.1	X	338.65957	302.45021	348.50401	4.07448	0.1637715	0.22984361	2.6394560	21	5 31.5	19.8
328576 2009 SH_{36}	17.5	X	44.95575	16.18966	253.48303	2.09957	0.1852895	0.24125019	2.5555886	21	9 14.5	20.4
328577 2009 SJ_{36}	15.9	X	346.09919	233.25878	211.91217	9.50366	0.0731791	0.17818351	3.1276949	21	—	—
328578 2009 SC_{37}	17.1	X	342.48214	113.49171	204.42104	11.23694	0.1130490	0.23569968	2.5955539	21	7 21.3	20.2
328579 2009 SO_{38}	15.5	X	219.78021	188.61373	16.30457	15.74411	0.0284657	0.17755850	3.1350303	21	12 23.8	20.3
328580 2009 SA_{40}	16.7	X	180.24394	135.47898	218.39651	1.25859	0.0757977	0.20387574	2.8590759	21	2 18.3	20.9
328581 2009 SF_{40}	16.9	X	185.74048	278.07595	9.42857	2.39403	0.0484809	0.18962409	3.0005927	21	—	—
328582 2009 SH_{43}	15.6	X	86.69911	142.22343	225.74529	9.54362	0.0920170	0.18453249	3.0555366	21	—	—
328583 2009 SY_{45}	17.0	X	322.01194	318.73621	18.22700	6.05702	0.1887217	0.23392168	2.6086895	21	7 5.9	19.7
328584 2009 SG_{46}	16.6	X	273.58477	129.21981	229.19371	4.97240	0.0483232	0.22617411	2.6679281	21	6 12.5	20.2
328585 2009 SM_{46}	16.2	X	328.21116	68.63145	211.89547	16.01807	0.0693472	0.22187870	2.7022507	21	5 12.6	19.6
328586 2009 SQ_{49}	16.2	X	331.11770	325.57646	359.22330	13.49845	0.1833970	0.23451152	2.6043135	21	7 8.9	19.1
328587 2009 SU_{55}	16.5	X	27.15014	217.97383	226.17469	10.98099	0.1042786	0.18681435	3.0306042	21	—	—
328588 2009 SF_{56}	16.1	X	357.68069	341.28020	243.67727	8.54508	0.1505177	0.21651760	2.7466748	21	4 1.5	19.2
328589 2009 SS_{58}	15.7	X	64.96278	212.93205	222.06536	11.76576	0.1421983	0.19229267	2.9727672	21	1 15.0	19.5
328590 2009 SQ_{61}	16.3	X	226.85189	17.10296	338.45776	5.74586	0.0722750	0.21553712	2.7549983	21	4 8.1	20.4
328591 2009 SP_{66}	16.4	X	282.34510	219.75772	58.32323	4.68303	0.0600009	0.21044079	2.7992999	21	3 12.3	20.3
328592 2009 ST_{67}	16.8	X	314.09052	216.66172	71.24459	5.16374	0.0559452	0.22005648	2.7171479	21	5 4.1	20.3
328593 2009 SE_{68}	15.9	X	316.30446	28.57450	59.32397	7.26873	0.1101762	0.17024440	3.2241915	21	11 26.2	19.8
328594 2009 SU_{69}	16.5	X	262.02177	24.69201	199.36551	5.64382	0.0351696	0.19665529	2.9286375	21	—	—
328595 2009 SO_{72}	17.2	X	113.66173	161.34514	221.41244	1.16508	0.0885134	0.19781373	2.9171926	21	1 12.3	21.2
328596 2009 SK_{74}	15.9	X	329.60175	258.24306	175.30815	11.48345	0.1222701	0.17018260	3.2249720	21	11 30.7	20.0
328597 2009 SS_{74}	16.3	X	291.88973	147.46021	179.34733	12.64721	0.0164102	0.22271381	2.6954914	21	6 1.2	20.1
328598 2009 SZ_{78}	16.7	X	98.19933	155.28625	221.16439	8.75543	0.0870307	0.19188079	2.9770198	21	—	—
328599 2009 SH_{87}	16.2	X	23.40716	226.99785	173.29596	9.10421	0.0678929	0.18192511	3.0846623	21	—	—
328600 2009 SU_{87}	16.7	X	330.80530	78.92810	116.20378	3.22873	0.0101026	0.20094019	2.8868542	21	2 3.7	20.7
328601 2009 SC_{88}	16.7	X	278.29930	149.73239	160.26016	6.09238	0.1394358	0.21904236	2.7255280	21	4 4.4	20.7
328602 2009 ST_{92}	16.1	X	309.98569	291.90799	40.13267	13.30901	0.2805048	0.23041728	2.6350732	21	5 18.6	19.2
328603 2009 SU_{96}	16.3	X	133.11265	300.69169	57.83180	5.10910	0.1259595	0.18943153	3.0026257	21	1 13.5	20.7
328604 2009 SH_{99}	16.7	X	202.48482	331.28014	8.63280	3.97528	0.1068660	0.20920646	2.8102998	21	2 25.8	21.0
328605 2009 SF_{100}	16.6	X	80.04357	165.15737	270.42411	0.94421	0.0539736	0.20084166	2.8877983	21	1 28.7	20.3
328606 2009 SD_{102}	15.8	X	55.61608	245.80211	168.31399	11.21283	0.0799022	0.18953153	3.0015695	21	—	—
328607 2009 SN_{106}	16.5	X	45.93787	260.09504	334.24363	9.09353	0.0448253	0.23415774	2.6069360	21	7 8.4	19.8
328608 2009 SL_{110}	15.6	X	44.82577	200.33034	179.28131	17.36966	0.1821024	0.17874897	3.1210953	21	—	—
328609 2009 SR_{114}	16.4	X	28.27256	262.44423	331.64193	5.97982	0.1286848	0.22887269	2.6469154	21	6 16.2	19.3
328610 2009 SR_{117}	15.9	X	184.49865	146.89405	213.48283	7.03541	0.2220700	0.20903440	2.8118417	21	3 5.4	20.9
328611 2009 SV_{117}	17.1	X	264.69621	336.04795	320.50168	3.52283	0.0386151	0.21237082	2.7823141	21	3 13.1	21.0
328612 2009 SB_{118}	16.4	X	117.84973	192.40599	222.16177	4.37314	0.1038341	0.20306752	2.8666571	21	2 24.9	20.6
328613 2009 SU_{126}	17.0	X	305.56747	353.64937	337.88660	4.39701	0.0527806	0.22943891	2.6425589	21	6 19.6	20.4
328614 2009 SN_{128}	16.9	X	254.41761	79.53750	237.80180	2.60076	0.0879024	0.21475924	2.7616469	21	3 21.5	20.9
328615 2009 SR_{132}	15.3	X	341.73581	62.03304	31.47795	11.16179	0.0651912	0.17911016	3.1168979	21	—	—
328616 2009 SS_{138}	16.0	X	267.29223	101.83809	33.65428	5.40190	0.0931567	0.16914665	3.2381263	21	11 17.1	20.5
328617 2009 SP_{142}	16.5	X	136.27417	244.88372	199.06597	6.17923	0.0439546	0.21416431	2.7667589	21	4 18.2	20.2
328618 2009 SG_{144}	16.3	X	298.92875	257.99864	27.93040	9.30595	0.1287392	0.21825504	2.7320786	21	3 31.5	19.9
328619 2009 SU_{144}	17.3	X	77.61645	302.02327	12.34487	4.92420	0.1842545	0.26176393	2.4202646	21	12 24.8	21.0
328620 2009 SD_{145}	17.0	X	254.82558	323.65031	44.80480	2.52029	0.1015170	0.22828660	2.6514439	21	5 25.0	20.9
328621 2009 SS_{146}	16.1	X	163.42144	324.98216	41.38283	8.93029	0.0709227	0.20161183	2.8804392	21	2 20.1	20.5
328622 2009 SL_{150}	15.9	X	12.31278	232.48024	0.75407	16.78761	0.2521022	0.22783484	2.6549476	21	5 6.5	18.2
328623 2009 SS_{150}	16.1	X	221.85085	129.22660	212.45891	5.68185	0.0329602	0.21312692	2.7757297	21	3 18.8	20.0
328624 2009 SF_{153}	17.2	X	31.97974	215.55100	322.55317	3.23740	0.0154193	0.21828576	2.7318223	21	3 28.7	20.7
328625 2009 SJ_{154}	17.9	X	150.48203	266.74996	10.06166	2.63843	0.2196123	0.27026466	2.3692445	21	—	—
328626 2009 SG_{159}	15.8	X	272.61215	312.92709	215.18683	23.23592	0.1022840	0.17818525	3.1276745	21	12 30.7	20.4
328627 2009 SW_{170}	16.5	X	223.96158	339.27562	28.04493	12.17914	0.1785908	0.21973268	2.7198165	21	4 16.5	20.7
328628 2009 SU_{176}	13.6	X	299.99562	133.72116	302.64207	6.91656	0.0766782	0.08351547	5.1835198	21	10 7.3	20.3
328629 2009 SE_{181}	16.7	X	176.48125	98.92649	241.46512	1.08356	0.0256814	0.20375760	2.8601809	21	1 25.7	20.9
328630 2009 SX_{182}	16.9	X	40.36910	143.57640	19.64915	4.13774	0.0387054	0.21305658	2.7763406	21	3 24.5	20.5
328631 2009 SG_{190}	16.6	X	15.53114	9.07078	253.76150	4.21936	0.0963145	0.23325283	2.6136741	21	7 2.9	19.5
328632 2009 SK_{195}	16.5	X	357.71899	62.83993	330.69915	2.47262	0.1772714	0.17011729	3.2257973	21	11 27.6	20.2
328633 2009 SB_{203}	16.7	X	263.50241	304.87918	55.06936	4.55980	0.1814318	0.22618607	2.6678341	21	5 14.6	20.8
328634 2009 SJ_{203}	17.5	X	125.97311	192.05866	105.93189	2.89236	0.1791882	0.26633795	2.3924746	21	—	—
328635 2009 SF_{205}	16.3	X	38.56449	40.19731	209.77848	12.96387	0.1320167	0.23093106	2.6311634	21	7 24.9	19.7
328636 2009 SV_{207}	16.0	X	63.58074	219.89852	8.86771	13.49005	0.0975708	0.23319801	2.6140837	21	8 8.2	19.6
328637 2009 SX_{208}	16.4	X	273.56254	99.77925	203.61559	5.63519	0.0530068	0.21533414	2.7567293	21	3 30.9	20.2
328638 2009 SK_{209}	16.0	X	0.48859	44.04788	14.52687	11.19933	0.1043131	0.17548719	3.1596509	21	12 29.6	20.2
328639 2009 SB_{213}	16.6	X	177.13951	5.33852	27.02362	4.65524	0.0772277	0.21091383	2.7951129	21	4 3.4	20.8
328640 2009 SK_{213}	15.4	X	325.52809	302.52605	198.40998	10.76458	0.1035919	0.18403970	3.0609886	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
328641 2009 SG_{215}	17.1	X	104.75648	67.82632	254.87936	1.55311	0.1935332	0.26889158	2.3773032	21	—	—
328642 2009 SD_{216}	16.9	X	253.39792	323.80766	22.03438	2.43227	0.0979774	0.22221578	2.6995173	21	4 24.6	20.9
328643 2009 SX_{216}	16.1	X	51.34348	20.36385	23.00409	3.39664	0.1257087	0.18624796	3.0367453	21	—	—
328644 2009 SP_{220}	16.3	X	144.93630	293.90385	123.86958	5.37325	0.0641506	0.21149380	2.7900005	21	3 30.9	20.3
328645 2009 SK_{233}	15.4	X	335.10409	35.12790	35.95943	12.00379	0.0576172	0.17194018	3.2029572	21	12 2.9	19.7
328646 2009 SW_{233}	17.4	X	115.32381	91.51339	224.42481	1.58411	0.2268261	0.26902725	2.3765039	21	—	—
328647 2009 SZ_{235}	17.1	X	120.94539	263.33462	62.93634	7.05540	0.1578262	0.27493484	2.3423378	21	—	—
328648 2009 SP_{237}	15.8	X	58.00388	335.07071	87.37138	8.97799	0.1968923	0.19046399	2.9917649	21	—	—
328649 2009 SA_{238}	15.5	X	164.87216	284.44841	68.63947	9.94315	0.1103240	0.20280059	2.8691719	21	2 7.8	20.0
328650 2009 SR_{238}	17.3	X	118.00023	236.09456	105.07758	6.42727	0.2218635	0.27402696	2.3475086	21	—	—
328651 2009 SY_{241}	17.0	X	82.40795	305.61818	41.97877	5.51394	0.2609412	0.26801285	2.3824967	21	—	—
328652 2009 SA_{243}	15.4	X	345.84651	252.49683	208.75738	16.10733	0.0989192	0.18360479	3.0658204	21	—	—
328653 2009 SA_{248}	16.6	X	184.05334	358.58136	10.67446	6.27000	0.0785346	0.21221625	2.7836649	21	3 13.7	20.8
328654 2009 SQ_{252}	17.3	X	24.16962	116.82479	143.29276	5.30900	0.1074159	0.23071437	2.6328106	21	7 15.0	20.1
328655 2009 SV_{252}	16.5	X	156.86500	7.19361	63.00427	5.14029	0.0553399	0.21478291	2.7614439	21	4 27.2	20.3
328656 2009 SA_{253}	15.9	X	94.75430	169.03860	217.42376	5.26118	0.2321217	0.18640965	3.0349890	21	1 14.9	20.0
328657 2009 SY_{253}	15.5	X	295.93645	102.91259	55.43815	11.70112	0.1201367	0.18119572	3.0929347	21	—	—
328658 2009 SR_{255}	17.3	X	171.76767	59.70096	229.20738	20.75955	0.2232724	0.28037580	2.3119354	21	—	—
328659 2009 SY_{257}	17.0	X	210.27848	317.39006	40.70312	3.80783	0.0771635	0.21452730	2.7636370	21	3 27.5	21.0
328660 2009 SD_{262}	16.4	X	82.48777	131.83027	311.61225	5.38203	0.0240621	0.20233198	2.8736003	21	2 6.8	20.1
328661 2009 SG_{263}	15.4	X	135.76375	141.00048	171.84806	10.48443	0.0892708	0.18742359	3.0240332	21	—	—
328662 2009 SG_{265}	15.3	X	335.61732	83.49798	20.77285	14.47791	0.0701624	0.17773998	3.1328959	21	—	—
328663 2009 SR_{275}	16.4	X	281.12416	272.32169	35.68916	7.08261	0.0436909	0.21883599	2.7272412	21	4 17.6	19.9
328664 2009 SJ_{277}	17.7	X	121.14096	120.92307	141.51276	3.00854	0.2021170	0.25968612	2.4331575	21	12 1.6	21.8
328665 2009 SE_{278}	18.3	X	73.12906	239.42140	81.89027	2.50081	0.1971647	0.26047657	2.4282325	21	12 29.9	22.0
328666 2009 SJ_{282}	16.4	X	138.58750	295.92202	136.21326	5.29264	0.0522214	0.21204028	2.7852048	21	4 9.0	20.3
328667 2009 SP_{282}	17.4	X	327.94164	262.16264	57.41067	5.63060	0.1050092	0.23325506	2.6136575	21	7 1.4	20.4
328668 2009 SA_{283}	16.9	X	269.38015	196.26858	113.96299	4.65048	0.0920568	0.21724776	2.7405171	21	4 1.3	20.8
328669 2009 SJ_{283}	16.1	X	345.46305	343.95672	70.21342	5.66052	0.1686531	0.17089495	3.2160039	21	12 2.3	19.4
328670 2009 SM_{285}	17.0	X	225.06293	357.09090	346.44283	3.34515	0.1658727	0.21692719	2.7432163	21	3 19.8	21.4
328671 2009 SC_{289}	16.2	X	40.37613	213.64882	181.87353	9.75261	0.0678356	0.17972171	3.1098231	21	—	—
328672 2009 SO_{289}	16.1	X	277.66939	174.72421	170.86000	7.18405	0.0628281	0.22473547	2.6793018	21	5 30.6	19.8
328673 2009 SV_{289}	16.9	X	316.95765	287.01681	45.93861	8.17075	0.1775154	0.23341636	2.6124532	21	6 20.5	19.8
328674 2009 SV_{290}	16.6	X	274.21815	134.42113	166.51596	7.80869	0.1019580	0.21480215	2.7612790	21	3 23.9	20.6
328675 2009 SL_{293}	16.9	X	314.54893	149.44123	143.08487	6.17565	0.0510255	0.22511981	2.6762514	21	5 12.3	20.4
328676 2009 SS_{296}	15.6	X	291.96685	107.84474	26.73653	10.68896	0.0659731	0.17909167	3.1171123	21	12 24.2	19.9
328677 2009 SG_{309}	16.9	X	45.15951	165.68169	179.35631	6.65299	0.1812197	0.26041316	2.4286267	21	12 27.8	20.3
328678 2009 SY_{311}	17.3	X	147.79431	110.63033	171.15770	4.14356	0.1507979	0.27132838	2.3630481	21	—	—
328679 2009 SG_{323}	17.0	X	145.49892	276.29898	14.51670	5.91543	0.1847805	0.27248529	2.3563548	21	—	—
328680 2009 SE_{327}	15.4	X	139.41537	84.52000	256.67204	10.63852	0.0912649	0.19218901	2.9738360	21	—	—
328681 2009 SK_{332}	16.6	X	249.27958	186.59747	180.07470	7.65284	0.1732854	0.22616489	2.6680006	21	5 10.9	20.8
328682 2009 SE_{336}	15.8	X	337.08094	79.12532	11.57260	10.97722	0.0994044	0.17906994	3.1173646	21	—	—
328683 2009 SB_{341}	15.6	X	327.52250	106.08789	28.50316	12.65599	0.0992563	0.18622905	3.0369509	21	—	—
328684 2009 SF_{341}	16.7	X	226.04757	278.42143	40.81727	4.97120	0.0658182	0.20923695	2.8100268	21	2 26.7	20.8
328685 2009 SY_{342}	16.7	X	172.27431	333.60480	41.68652	4.93525	0.0830710	0.20838276	2.8177007	21	3 10.3	20.9
328686 2009 SB_{343}	17.7	X	355.74021	188.01356	129.08837	3.00862	0.2020519	0.24121672	2.5558250	21	8 21.7	19.7
328687 2009 SS_{344}	17.2	X	300.57858	263.13883	57.16326	3.52354	0.0631631	0.22526719	2.6750839	21	5 26.2	20.4
328688 2009 SE_{345}	16.9	X	248.87369	113.27679	157.45353	5.70226	0.0829659	0.20186258	2.8780533	21	1 20.7	21.2
328689 2009 SR_{347}	16.7	X	230.36844	228.47316	117.20358	5.15253	0.1100348	0.21478478	2.7614279	21	4 2.1	21.0
328690 2009 SH_{348}	15.5	X	15.14419	333.73494	74.07329	19.86949	0.2109058	0.17735300	3.1374515	21	—	—
328691 2009 SM_{351}	15.2	X	357.50635	182.41237	243.12944	16.39979	0.1772177	0.17711344	3.1402800	21	—	—
328692 2009 SP_{352}	15.8	X	74.35298	359.36067	50.78125	10.69863	0.0121275	0.19225205	2.9731859	21	—	—
328693 2009 SB_{353}	16.7	X	310.13389	329.58278	210.47533	9.41152	0.0164691	0.19280797	2.9674681	21	—	—
328694 2009 SO_{353}	16.6	X	159.84354	303.39596	64.83131	2.95302	0.0942389	0.19702765	2.9249465	21	2 18.3	20.9
328695 2009 SA_{357}	16.6	X	149.33252	144.31254	181.78748	0.78145	0.0511852	0.18857768	3.0116825	21	—	—
328696 2009 SG_{357}	16.2	X	259.08441	91.60001	215.12078	5.57408	0.0403991	0.20949598	2.8077101	21	3 18.8	20.1
328697 2009 SM_{358}	15.8	X	146.25894	280.10026	41.75697	11.21192	0.0612855	0.19012794	2.9952892	21	—	—
328698 2009 SG_{361}	16.3	X	20.48905	201.94011	31.80297	12.19892	0.1076844	0.22472258	2.6794043	21	5 28.2	19.4
328699 2009 SD_{362}	16.3	X	305.80738	47.57246	83.06919	2.54128	0.1258040	0.17599425	3.1535792	21	—	—
328700 2009 SC_{363}	16.3	X	357.61588	174.28313	226.36623	0.25739	0.0494702	0.17385105	3.1794439	21	11 28.4	20.5
328701 2009 SJ_{363}	16.5	X	176.62269	57.35136	311.01241	4.49275	0.0493740	0.21091063	2.7951411	21	2 28.7	20.5
328702 2009 SE_{364}	16.2	X	56.90832	357.98971	52.53038	9.73378	0.1033483	0.18702430	3.0283358	21	—	—
328703 2009 TN_{1}	16.2	X	207.61290	146.72986	215.20473	7.42805	0.3343417	0.21334687	2.7738217	21	3 24.3	21.5
328704 2009 TW_{2}	16.7	X	239.17526	270.62541	43.59564	4.35658	0.0846838	0.21125986	2.7920599	21	3 5.1	20.9
328705 2009 TG_{3}	16.5	X	325.40714	293.15977	24.25361	7.26429	0.2129904	0.23225563	2.6211501	21	6 6.5	19.2
328706 2009 TK_{6}	16.1	X	326.18010	303.33490	20.27694	11.62437	0.2042944	0.23173310	2.6250888	21	6 19.5	19.0
328707 2009 TS_{6}	15.4	X	49.34327	85.60154	2.59167	10.22811	0.0553621	0.19163132	2.9796029	21	1 6.8	19.4
328708 2009 TW_{8}	15.8	X	23.50439	34.97105	39.53452	10.95171	0.0862090	0.18413840	3.0598946	21	—	—
328709 2009 TT_{9}	16.5	X	259.40024	349.74102	356.42192	4.66292	0.1976863	0.22504666	2.6768313	21	4 19.8	20.7
328710 2009 TZ_{10}	15.1	X	20.71662	358.04780	35.34054	23.60104	0.1002990	0.17380351	3.1800236	21	12 23.3	19.7
328711 2009 TY_{12}	16.3	X	272.04075	290.25605	40.81652	14.82797	0.1998779	0.22340794	2.6899052	21	4 17.4	20.3
328712 2009 TA_{13}	16.3	X	270.97287	295.23957	58.45002	17.55251	0.2306173	0.22666312	2.6640895	21	5 10.3	20.3
328713 2009 TB_{14}	15.4	X	259.23280	301.86588	30.43225	15.07191	0.0870107	0.21597052	2.7513113	21	4 16.7	19.2
328714 2009 TE_{17}	16.2	X	249.48418	263.67731	117.02045	10.33813	0.1113166	0.22341072	2.6898829	21	6 4.9	20.3
328715 2009 TH_{17}	16.9	X	321.99763	229.03176	126.99567	4.43941	0.2406653	0.23782536	2.5800648	21	7 26.7	18.9
328716 2009 TP_{17}	16.9	X	284.71437	194.65414	166.37992	13.69282	0.1896799	0.23168183	2.6254761	21	6 10.4	20.7
328717 2009 TA_{18}	16.1	X	259.88038	62.22663	264.81150	14.01006	0.1425008	0.21671941	2.7449694	21	3 28.3	20.6
328718 2009 TA_{20}	15.8	X	87.64276	190.03236	208.57452	9.87113	0.1122501	0.18919047	3.0051757	21	1 1.9	19.9
328719 2009 TZ_{20}	15.7	X	357.53215	221.91301	184.56102	16.31002	0.1241175	0.17181229	3.2045464	21	12 11.1	20.0
328720 2009 TA_{21}	16.5	X	350.52374	132.82012	183.73623	14.63938	0.1249591	0.23723195	2.5843655	21	8 3.4	19.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
328721 2009 TR_{21}	16.2	X	251.21504	326.18092	46.80932	14.62380	0.2298715	0.22376722	2.6870252	21	5 13.2	20.6
328722 2009 TF_{26}	17.2	X	100.78618	268.10959	50.31308	5.90280	0.2491864	0.26507421	2.4000727	21	—	—
328723 2009 TT_{33}	16.4	X	192.52793	133.99621	232.37108	4.73786	0.1032728	0.21052359	2.7985659	21	3 16.7	20.9
328724 2009 TX_{33}	15.6	X	29.83151	88.12815	310.38518	10.44914	0.1122082	0.17952526	3.1120914	21	—	—
328725 2009 TP_{36}	16.1	X	313.05824	139.94251	188.74897	13.28820	0.1594212	0.23026715	2.6362185	21	6 11.6	19.5
328726 2009 TF_{38}	15.5	X	29.74638	168.95803	248.45279	10.64132	0.0984042	0.17909375	3.1170882	21	—	—
328727 2009 TA_{41}	15.6	X	99.30117	297.02823	63.10318	14.50757	0.1319139	0.18355455	3.0663798	21	—	—
328728 2009 TO_{41}	16.3	X	206.90493	247.01563	106.58459	7.41876	0.0655170	0.20960210	2.8067623	21	3 21.4	20.5
328729 2009 TF_{43}	15.7	X	289.22392	65.40954	55.76430	8.61065	0.1379736	0.17117475	3.2124983	21	11 23.9	19.7
328730 2009 TE_{45}	16.2	X	357.24615	51.72067	271.33779	12.80639	0.1742743	0.24367434	2.5386112	21	8 25.3	18.8
328731 2009 TC_{46}	15.3	X	84.82759	296.63710	82.38763	22.92909	0.0400572	0.17660559	3.1462972	21	—	—
328732 2009 TG_{46}	12.9	X	331.08718	224.77922	188.83843	18.10813	0.0815736	0.08317689	5.1975771	21	10 25.6	19.4
328733 2009 TB_{48}	16.5	X	313.58331	245.95722	38.48414	8.16048	0.0577211	0.22006569	2.7170721	21	4 27.3	19.8
328734 2009 UA_{1}	17.2	X	181.73367	59.01825	212.11778	3.95233	0.3092172	0.27676232	2.3320154	21	—	—
328735 2009 UP_{10}	16.1	X	305.98916	276.01687	37.15067	13.99944	0.1257841	0.22623062	2.6674838	21	5 12.4	19.5
328736 2009 UC_{12}	16.8	X	337.40247	98.98754	222.38316	6.20253	0.2752977	0.23525386	2.5988320	21	7 1.4	18.8
328737 2009 UP_{20}	16.1	X	178.97142	343.89416	43.50601	9.59416	0.1535205	0.21088347	2.7953811	21	4 4.5	20.7
328738 2009 UL_{25}	15.5	X	351.18328	270.84237	223.30828	10.39179	0.0358213	0.18562276	3.0435602	21	—	—
328739 2009 UQ_{26}	15.5	X	9.78583	314.33608	59.43139	11.83041	0.1356834	0.16507275	3.2911862	21	11 18.4	19.6
328740 2009 UN_{28}	16.0	X	230.42935	62.09055	229.96334	10.48256	0.0803196	0.19817715	2.9136250	21	1 25.2	20.7
328741 2009 UM_{29}	16.9	X	349.67972	250.52314	46.15116	2.91475	0.1633033	0.22994465	2.6386828	21	7 4.1	19.5
328742 2009 UE_{30}	15.8	X	33.04080	56.99016	47.67632	10.47945	0.0261857	0.18977926	2.9989568	21	1 3.9	20.0
328743 2009 UF_{30}	17.0	X	299.52710	280.25311	46.14138	6.20300	0.2128845	0.22623374	2.6674593	21	5 9.1	20.3
328744 2009 UV_{31}	16.1	X	72.58227	27.99796	40.41748	5.01272	0.1311597	0.19000915	2.9965374	21	1 22.4	19.8
328745 2009 UY_{33}	16.4	X	273.46665	288.55391	54.82902	9.60502	0.1529356	0.22092453	2.7100258	21	5 8.8	20.2
328746 2009 UM_{36}	16.6	X	308.44733	99.36184	200.14152	4.62181	0.0973977	0.22027220	2.7153736	21	5 4.9	20.1
328747 2009 UK_{37}	16.6	X	314.78199	169.54948	52.88084	11.93985	0.0404679	0.19869588	2.9085518	21	2 19.1	20.8
328748 2009 UX_{39}	15.7	X	147.60956	263.98879	52.50075	10.58018	0.1065597	0.18234326	3.0799447	21	—	—
328749 2009 UR_{57}	15.9	X	303.63093	81.54795	36.63349	9.58731	0.0665461	0.17179569	3.2047528	21	12 17.9	20.2
328750 2009 UF_{59}	15.9	X	337.95494	67.21207	32.44348	9.88001	0.0876223	0.17561307	3.1581408	21	—	—
328751 2009 UQ_{60}	16.0	X	323.79307	30.50835	70.17876	6.55674	0.1164159	0.17628310	3.1501332	21	12 25.3	19.7
328752 2009 UU_{60}	15.7	X	294.05804	336.15540	175.07504	10.59685	0.0451112	0.18283204	3.0744530	21	—	—
328753 2009 UL_{64}	16.2	X	257.52177	43.93488	175.40525	9.91106	0.1869145	0.19030634	2.9934170	21	—	—
328754 2009 UE_{66}	15.7	X	25.10818	225.57865	190.81878	10.57634	0.0768770	0.18010296	3.1054329	21	—	—
328755 2009 UT_{70}	16.9	X	310.02698	175.72846	142.32545	6.00764	0.1330189	0.22807065	2.6531173	21	5 27.7	20.1
328756 2009 UL_{76}	17.0	X	321.37513	83.48160	220.42513	4.10871	0.0860376	0.22558476	2.6725728	21	5 31.6	20.2
328757 2009 UC_{88}	15.8	X	150.25408	351.85669	55.50258	18.54147	0.1288787	0.20477117	2.8507349	21	4 6.2	20.4
328758 2009 UM_{88}	15.0	X	101.94691	284.93448	46.33740	21.60551	0.0203523	0.17656044	3.1468337	21	—	—
328759 2009 UN_{88}	16.7	X	321.22979	221.24224	125.91758	3.15327	0.2307550	0.23482484	2.6019964	21	7 12.2	19.2
328760 2009 UE_{90}	16.0	X	315.69686	280.59204	72.46621	13.03483	0.2032511	0.23396303	2.6083822	21	7 15.8	18.8
328761 2009 UN_{94}	16.5	X	147.38550	278.42685	65.17580	2.96195	0.1030569	0.19413851	2.9538941	21	1 7.2	20.7
328762 2009 UZ_{94}	16.5	X	80.00408	282.03131	154.61548	2.30719	0.0656566	0.19689116	2.9262982	21	2 1.1	20.3
328763 2009 US_{96}	16.7	X	51.13029	255.32060	162.21736	2.54994	0.0967998	0.18459840	3.0548092	21	—	—
328764 2009 UW_{97}	13.4	X	343.24717	8.88899	55.86438	9.46793	0.0527804	0.08379963	5.1717953	21	11 21.4	20.1
328765 2009 UL_{99}	16.3	X	34.79929	218.48883	209.01183	7.33922	0.0623246	0.18150985	3.0893652	21	—	—
328766 2009 UR_{100}	15.1	X	306.86456	76.01232	59.98041	13.91519	0.0320362	0.17650636	3.1474763	21	—	—
328767 2009 UD_{102}	15.3	X	357.00678	28.34614	63.86405	10.57350	0.0596347	0.17938037	3.1137670	21	—	—
328768 2009 UV_{106}	16.0	X	302.61835	116.66796	59.32676	11.76205	0.0154527	0.18464493	3.0542960	21	—	—
328769 2009 UG_{107}	16.7	X	300.62602	105.55342	212.79479	4.99058	0.2101973	0.22365027	2.6879618	21	4 30.8	20.2
328770 2009 UX_{107}	15.3	X	148.18527	35.49486	53.42564	3.63140	0.2083176	0.12541329	3.9528197	21	5 24.9	21.7
328771 2009 UL_{108}	16.3	X	109.53984	162.05533	208.08892	1.21918	0.1505397	0.18745642	3.0236801	21	1 2.9	20.5
328772 2009 UY_{109}	16.0	X	124.28659	275.29992	57.43999	9.75851	0.1475984	0.18288194	3.0738937	21	—	—
328773 2009 UW_{115}	17.3	X	304.44694	276.12365	59.91741	2.72172	0.0744975	0.23036005	2.6355097	21	6 21.0	20.6
328774 2009 UV_{118}	17.1	X	263.19036	133.76312	202.83286	5.79722	0.0471559	0.22021399	2.7158521	21	5 1.6	20.8
328775 2009 UB_{129}	15.9	X	266.53706	82.45956	233.76195	13.99383	0.1672735	0.21388999	2.7691240	21	3 21.5	20.4
328776 2009 UA_{136}	16.8	X	355.12755	30.04792	303.84333	4.49868	0.1849261	0.24213954	2.5493271	21	9 13.0	18.9
328777 2009 UG_{136}	15.7	X	342.36555	195.98090	264.77735	9.66127	0.0768903	0.17527561	3.1621932	21	—	—
328778 2009 UL_{136}	14.8	X	7.37468	324.59906	116.00031	28.92185	0.1472611	0.17784943	3.1316104	21	—	—
328779 2009 UG_{137}	15.2	X	57.05605	338.22728	84.41271	18.98171	0.1182885	0.18279790	3.0748357	21	—	—
328780 2009 UM_{137}	15.5	X	45.08865	141.43357	248.75488	15.08298	0.0744193	0.17851171	3.1238601	21	—	—
328781 2009 UP_{137}	15.3	X	35.94348	109.11892	270.52057	14.49001	0.0682349	0.17265644	3.1940928	21	12 24.6	19.6
328782 2009 UV_{140}	15.8	X	181.11025	226.16850	65.50806	11.11620	0.1182429	0.18177101	3.0864054	21	—	—
328783 2009 UT_{146}	16.6	X	182.41493	271.45767	49.60948	9.82100	0.0649380	0.19139149	2.9820915	21	1 16.0	21.2
328784 2009 UB_{147}	15.9	X	27.31817	194.37360	231.13178	10.24152	0.0422718	0.17863932	3.1223723	21	—	—
328785 2009 UH_{150}	16.4	X	313.02780	137.40069	195.15311	15.06663	0.2701085	0.23328343	2.6134455	21	5 29.5	19.6
328786 2009 UH_{152}	15.7	X	180.42489	252.07153	93.82912	10.62525	0.0898734	0.19831397	2.9122848	21	2 13.8	20.2
328787 2009 UC_{153}	15.6	X	155.95258	108.18258	217.70700	18.57734	0.1240637	0.18751482	3.0230522	21	—	—
328788 2009 UC_{154}	15.9	X	302.20291	83.11056	35.82596	13.18318	0.1084444	0.17081732	3.2169781	21	12 12.0	20.1
328789 2009 UF_{155}	15.8	X	293.63886	87.22081	36.28050	8.26145	0.0274872	0.17036368	3.2226864	21	12 14.2	20.3
328790 2009 VJ_{1}	16.4	X	1.66885	196.86362	160.87740	14.27453	0.1840587	0.24438044	2.5337189	21	11 10.4	19.2
328791 2009 VO_{3}	15.1	X	146.09711	265.63825	93.30111	11.14393	0.1077575	0.19322309	2.9632163	21	1 25.6	19.6
328792 2009 VZ_{3}	16.1	X	345.79577	44.57245	243.79998	11.95525	0.1459974	0.22547469	2.6734425	21	6 13.8	18.9
328793 2009 VA_{5}	17.4	X	10.00627	60.19540	243.86092	6.68970	0.1946634	0.23665038	2.5885978	21	8 29.0	19.9
328794 2009 VX_{8}	15.8	X	107.03092	17.64657	6.34812	4.18856	0.0280506	0.18999594	2.9966763	21	—	—
328795 2009 VW_{9}	15.5	X	41.14195	330.43374	81.44337	6.03823	0.1273735	0.17823325	3.1271129	21	—	—
328796 2009 VJ_{17}	16.3	X	70.56977	25.95810	17.93209	5.05445	0.1760217	0.18373818	3.0643364	21	—	—
328797 2009 VF_{20}	15.6	X	82.88834	7.69267	27.80570	10.47478	0.1002989	0.18713119	3.0271824	21	—	—
328798 2009 VM_{27}	16.7	X	156.13888	131.60404	218.19112	4.33246	0.1653366	0.19499433	2.9452447	21	1 27.6	21.3
328799 2009 VU_{27}	15.3	X	70.90738	359.51964	44.62887	16.58664	0.0750152	0.18404560	3.0609231	21	—	—
328800 2009 VO_{29}	15.7	X	42.80680	7.81677	46.02998	10.09462	0.0959382	0.17960671	3.1111504	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
328801 2009 VR_{32}	15.3	X	231.79763	192.87535	46.16172	12.40374	0.0291590	0.18020496	3.1042610	21	—	—
328802 2009 VJ_{38}	15.4	X	213.14876	200.53418	48.70796	16.66687	0.0522791	0.18069616	3.0986327	21	—	—
328803 2009 VH_{42}	16.6	X	132.67474	317.09132	60.69329	2.36617	0.0270191	0.19258428	2.9697655	21	1 22.6	20.8
328804 2009 VC_{43}	15.1	X	43.01042	334.99081	61.09371	28.65266	0.1388063	0.17459628	3.1703902	21	—	—
328805 2009 VJ_{45}	15.8	X	53.24728	356.29624	28.08317	9.53970	0.0685907	0.17443026	3.1724016	21	—	—
328806 2009 VQ_{45}	15.7	X	92.26339	328.97868	41.37479	18.19220	0.1003001	0.18326782	3.0695773	21	—	—
328807 2009 VO_{47}	15.4	X	276.48797	143.40970	67.33835	18.65447	0.1072720	0.18456028	3.0552298	21	—	—
328808 2009 VT_{57}	16.5	X	269.93168	267.63322	67.76757	13.47099	0.2392504	0.22066570	2.7121445	21	4 19.4	20.9
328809 2009 VO_{65}	15.8	X	205.79311	29.39252	258.97636	10.48719	0.1276423	0.18907303	3.0064201	21	1 1.1	20.6
328810 2009 VC_{66}	15.8	X	105.82879	325.24313	42.55169	9.77441	0.0966849	0.18443228	3.0566433	21	—	—
328811 2009 VP_{68}	16.1	X	83.42747	107.43623	284.21081	4.87355	0.1399406	0.18474941	3.0531444	21	—	—
328812 2009 VQ_{76}	15.1	X	93.30047	129.48299	240.77220	13.98407	0.0680118	0.18481040	3.0524726	21	—	—
328813 2009 VB_{79}	15.9	X	87.77811	14.99653	0.18216	13.23240	0.1403128	0.18385312	3.0630591	21	—	—
328814 2009 VW_{83}	15.4	X	305.95777	81.45938	45.92692	10.26123	0.0318744	0.17194009	3.2029583	21	—	—
328815 2009 VW_{91}	15.2	X	299.55094	33.41547	78.61213	10.63459	0.0531547	0.17077601	3.2174970	21	12 6.8	19.5
328816 2009 VM_{92}	15.9	X	68.20325	237.06841	127.10786	7.32058	0.1330190	0.17751058	3.1355945	21	—	—
328817 2009 VN_{92}	15.7	X	71.41312	8.16808	29.93989	11.00465	0.0786274	0.18315828	3.0708011	21	—	—
328818 2009 VR_{95}	16.5	X	117.63059	204.19757	177.58803	3.79942	0.1842303	0.18895892	3.0076303	21	1 29.9	20.8
328819 2009 VL_{98}	16.0	X	16.85028	248.63963	189.52293	9.66462	0.0514322	0.17873389	3.1212708	21	—	—
328820 2009 VY_{105}	15.6	X	65.82223	276.45729	121.18063	10.37356	0.1296784	0.18269014	3.0760447	21	—	—
328821 2009 VN_{107}	16.0	X	339.19809	117.79152	319.91831	4.02662	0.1521265	0.17047406	3.2212951	21	12 20.6	19.8
328822 2009 VM_{109}	15.5	X	35.52005	124.60133	262.99633	9.40601	0.0909399	0.17248729	3.1961806	21	—	—
328823 2009 VU_{111}	15.8	X	77.46848	276.99124	87.35014	10.41089	0.0676214	0.17676816	3.1443679	21	—	—
328824 2009 VK_{115}	15.7	X	192.47686	279.84251	68.47219	17.72545	0.1244443	0.20353434	2.8622721	21	3 7.4	20.6
328825 2009 VV_{115}	16.5	X	300.29915	237.06574	117.75051	12.72240	0.2210709	0.22909779	2.6451813	21	6 18.4	19.8
328826 2009 WU_{2}	16.7	X	21.24499	167.23686	107.98885	2.91544	0.0836562	0.23100347	2.6306135	21	7 30.7	19.7
328827 2009 WV_{8}	16.4	X	246.05144	287.96439	54.21571	11.60524	0.1838983	0.21782372	2.7356840	21	4 9.6	20.8
328828 2009 WB_{9}	15.8	X	48.99015	325.08313	76.22258	11.21116	0.1040870	0.17847476	3.1242912	21	—	—
328829 2009 WF_{17}	16.7	X	250.42669	0.97698	291.55381	0.97648	0.0452813	0.20379977	2.8597864	21	2 20.6	20.8
328830 2009 WX_{23}	15.9	X	147.09424	309.16719	46.48457	11.74976	0.0329276	0.19062803	2.9900483	21	1 15.4	20.4
328831 2009 WK_{25}	15.2	X	76.28594	340.73808	29.53647	27.78193	0.3061460	0.17971116	3.1099449	21	—	—
328832 2009 WJ_{26}	15.8	X	173.06783	325.85637	28.05929	11.56741	0.1029752	0.19715489	2.9236879	21	2 19.2	20.4
328833 2009 WP_{33}	15.3	X	199.94014	178.93026	78.82245	11.02064	0.0556444	0.17591051	3.1545798	21	—	—
328834 2009 WA_{43}	16.0	X	238.52299	281.31753	81.97312	16.20429	0.1968335	0.21561261	2.7543552	21	4 29.9	20.7
328835 2009 WD_{44}	15.0	X	57.94592	142.58471	246.45689	15.37938	0.0993281	0.17959157	3.1113253	21	—	—
328836 2009 WB_{46}	15.9	X	35.16742	42.58129	37.43932	11.40780	0.0961987	0.18552060	3.0446775	21	—	—
328837 2009 WU_{47}	15.4	X	0.08103	201.45870	239.57710	11.77036	0.1219326	0.17771897	3.1331428	21	—	—
328838 2009 WD_{55}	16.1	X	352.74651	233.91921	198.59150	8.62529	0.0641659	0.17457012	3.1707070	21	12 30.8	20.5
328839 2009 WE_{60}	15.4	X	128.67804	41.33237	76.72643	9.75888	0.1796777	0.12446984	3.9727689	21	6 9.0	21.5
328840 2009 WV_{69}	16.1	X	218.56566	41.13095	271.25915	8.60229	0.1049231	0.20045193	2.8915401	21	2 5.9	20.7
328841 2009 WY_{71}	15.7	X	120.98176	289.23415	195.62422	3.65018	0.1944094	0.12441787	3.9738752	21	6 11.5	21.8
328842 2009 WY_{73}	16.1	X	106.25747	146.77159	220.09593	5.55220	0.0513606	0.18214639	3.0821635	21	—	—
328843 2009 WN_{75}	15.9	X	275.48518	233.89394	83.60254	9.58126	0.1326068	0.21319861	2.7751075	21	4 15.2	20.1
328844 2009 WV_{75}	16.0	X	170.59588	273.79294	90.81599	7.12299	0.1025439	0.19807583	2.9146186	21	2 27.0	20.5
328845 2009 WG_{85}	16.1	X	77.04865	76.34695	277.93093	8.34907	0.0887895	0.17391911	3.1786144	21	—	—
328846 2009 WD_{94}	16.2	X	334.58145	19.73969	90.53205	2.58380	0.1364564	0.17842218	3.1249051	21	—	—
328847 2009 WK_{94}	16.3	X	282.83402	354.00869	225.36008	3.55592	0.0036332	0.18853099	3.0121797	21	1 8.2	20.5
328848 2009 WT_{95}	16.7	X	219.65918	130.61210	192.25935	1.66809	0.0647722	0.20082832	2.8879261	21	2 22.7	21.1
328849 2009 WA_{98}	16.0	X	281.46514	293.41600	215.23577	13.45522	0.0284205	0.17747303	3.1360367	21	12 29.7	20.6
328850 2009 WU_{107}	16.4	X	260.63231	350.25355	203.06554	4.91909	0.0864242	0.17869030	3.1217784	21	—	—
328851 2009 WD_{128}	15.5	X	150.05847	80.29418	245.87456	12.83836	0.1009577	0.18260351	3.0770175	21	—	—
328852 2009 WR_{142}	15.6	X	335.48922	55.79866	43.27989	9.95644	0.0809720	0.17663567	3.1459401	21	—	—
328853 2009 WB_{145}	16.2	X	342.89621	87.58073	356.43134	2.23603	0.1489839	0.17385283	3.1794222	21	—	—
328854 2009 WA_{146}	15.8	X	35.19620	44.88750	345.36907	8.49150	0.0776483	0.17364160	3.1820002	21	—	—
328855 2009 WA_{156}	15.7	X	208.46093	27.41012	247.40072	14.73722	0.1560670	0.18411587	3.0601443	21	—	—
328856 2009 WC_{156}	15.3	X	101.12251	83.57700	241.15478	15.83666	0.0792796	0.17160185	3.2071658	21	—	—
328857 2009 WU_{159}	16.0	X	180.14662	21.64260	267.76970	7.99448	0.1101040	0.18379905	3.0636598	21	—	—
328858 2009 WW_{170}	16.4	X	204.45052	280.55066	40.29027	11.63545	0.0943424	0.19789899	2.9163546	21	2 10.3	21.1
328859 2009 WL_{178}	15.8	X	287.88979	307.25992	228.18261	10.39563	0.0392770	0.17967327	3.1103821	21	—	—
328860 2009 WC_{190}	15.6	X	159.86119	188.69776	79.17777	4.84685	0.1053867	0.17018142	3.2249869	21	12 27.7	20.7
328861 2009 WX_{217}	15.6	X	359.28628	306.80561	133.17121	6.72934	0.1337874	0.17288798	3.1912404	21	—	—
328862 2009 WZ_{217}	15.4	X	62.86038	324.76717	106.55372	10.95364	0.0599274	0.18513958	3.0488533	21	1 4.6	19.5
328863 2009 WN_{220}	16.9	X	274.17773	143.05874	153.66919	1.88169	0.0776650	0.20857205	2.8159956	21	3 21.8	20.8
328864 2009 WB_{232}	15.5	X	227.22042	170.19058	75.50990	10.35888	0.0946056	0.18377818	3.0638917	21	—	—
328865 2009 WX_{233}	13.5	X	274.84980	86.24463	33.86124	8.37062	0.0816065	0.08129296	5.2775711	21	10 28.5	20.4
328866 2009 WZ_{234}	16.0	X	139.00015	291.09595	7.76041	7.82109	0.0675610	0.17531583	3.1617095	21	—	—
328867 2009 WH_{248}	16.9	X	321.67226	211.93275	117.69843	3.80836	0.1946780	0.23062967	2.6334552	21	6 22.2	19.7
328868 2009 WU_{248}	16.3	X	23.84987	225.96192	105.64003	9.43834	0.3080219	0.24621013	2.5211505	21	12 1.1	19.3
328869 2009 XS_{2}	15.5	X	220.48562	96.04352	115.64930	6.06952	0.0879835	0.16996195	3.2277625	21	12 24.4	20.2
328870 2009 XN_{7}	15.5	X	80.54493	275.37199	101.46874	19.03527	0.1725730	0.17541662	3.1604983	21	—	—
328871 2010 AO_{61}	14.9	X	31.59700	289.03714	93.89887	29.78408	0.1652048	0.17633912	3.1494661	21	—	—
328872 2010 AO_{92}	15.8	X	359.07363	229.49518	185.50852	16.43019	0.0908635	0.17428781	3.1741300	21	12 20.9	20.2
328873 2010 AA_{95}	16.4	X	48.34818	346.27481	70.73725	2.94174	0.1819908	0.18577783	3.0418664	21	—	—
328874 2010 AQ_{114}	15.9	X	119.93101	210.32910	136.30891	13.77377	0.0602806	0.18746290	3.0236104	21	—	—
328875 2010 AX_{115}	15.6	X	281.54074	317.93430	182.77921	20.83225	0.1094908	0.17270065	3.1935477	21	12 12.1	20.2
328876 2010 BT_{25}	16.0	X	221.01739	287.02065	100.85154	14.81599	0.1393882	0.21993966	2.7181099	21	5 15.6	20.5
328877 2010 BJ_{70}	13.0	X	311.26172	109.90728	330.90717	23.75594	0.0744866	0.08018619	5.3260226	21	10 17.0	20.1
328878 2010 BP_{94}	13.5	X	322.77852	34.74011	41.45112	9.61463	0.0610937	0.08183121	5.2544034	21	11 8.1	20.2
328879 2010 BQ_{105}	15.6	X	275.51134	53.55031	99.85702	20.15144	0.1251319	0.17161382	3.2070166	21	12 17.5	19.9
328880 2010 CJ_{10}	16.0	X	145.85185	239.40739	89.34985	7.03676	0.0762410	0.18485221	3.0520123	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
328881 2010 CO_{130}	15.2	X	135.24898	254.87770	217.30980	8.30727	0.1812554	0.12462725	3.9694230	21	6 8.5	21.4
328882 2010 EV_{3}	15.6	X	98.65448	259.94737	81.84467	9.95651	0.1027659	0.17339648	3.1849983	21	—	—
328883 2010 HG	12.9	X	330.51118	65.33498	225.57639	10.88776	0.1406603	0.08205792	5.2447210	21	5 30.2	19.2
328884 2010 LJ_{109}	10.1	X	86.01768	136.56103	41.58201	24.77977	0.3065266	0.02052830	13.2099378	21	7 26.3	21.7
328885 2010 NU_{31}	16.4	X	153.32047	204.61673	201.82139	13.91755	0.2734980	0.22690279	2.6622132	21	4 7.5	20.8
328886 2010 OK_{35}	16.4	X	29.22421	143.16854	311.75492	4.89310	0.0313614	0.20818641	2.8194721	21	—	—
328887 2010 OJ_{58}	15.2	X	272.08973	88.71475	9.17709	22.76236	0.0730791	0.17743772	3.1364527	21	10 10.1	19.6
328888 2010 PS_{48}	16.1	X	210.30092	322.67946	104.86252	26.50695	0.1749979	0.24325973	2.5414949	21	6 19.9	20.3
328889 2010 RF_{9}	17.4	X	152.70056	328.94391	165.28123	23.17285	0.0494695	0.34862659	1.9993817	21	7 14.1	20.3
328890 2010 RL_{46}	17.6	X	10.79713	81.08522	330.92439	3.75170	0.1495121	0.28601271	2.2814581	21	—	—
328891 2010 RQ_{52}	18.1	X	331.92577	201.94543	198.84109	20.84828	0.1018547	0.36900270	1.9250840	21	12 9.5	20.0
328892 2010 RE_{87}	17.2	X	213.04091	148.46626	332.89201	5.99999	0.0705574	0.26406897	2.4061598	21	9 7.7	20.4
328893 2010 RU_{103}	17.7	X	237.48358	240.70652	199.91580	2.33537	0.1526454	0.25654961	2.4529487	21	8 2.8	21.3
328894 2010 RW_{125}	17.9	X	356.77231	357.17376	63.19044	3.42018	0.2036216	0.28258279	2.2998821	21	—	—
328895 2010 SR_{12}	16.1	X	172.85605	311.21157	185.53440	13.46529	0.1130489	0.25888267	2.4381892	21	8 8.5	20.0
328896 2010 SD_{19}	18.0	X	340.95680	352.77245	45.06773	2.79907	0.1883632	0.27327768	2.3517976	21	12 2.2	19.6
328897 2010 SV_{28}	17.8	X	263.49935	85.49724	11.53565	1.23994	0.1381613	0.26630561	2.3926684	21	10 1.7	20.7
328898 2010 TA_{6}	17.4	X	346.95513	260.11071	155.03316	7.61517	0.1773723	0.27795405	2.3253449	21	—	—
328899 2010 TN_{19}	17.5	X	137.97527	260.47965	346.47925	19.33419	0.0725045	0.37157087	1.9162034	21	12 13.9	20.3
328900 2010 TX_{19}	18.0	X	95.25367	95.09730	339.85984	2.42706	0.0773537	0.31443561	2.1418131	21	1 27.5	19.8
328901 2010 TK_{25}	17.4	X	299.37256	236.65419	259.12295	3.32504	0.1491964	0.28543121	2.2845556	21	—	—
328902 2010 TM_{28}	16.5	X	145.91669	173.65654	357.52738	12.55066	0.1653019	0.25968866	2.4331416	21	9 2.3	20.4
328903 2010 TW_{28}	17.9	X	314.01638	147.44704	329.48256	2.55812	0.0580564	0.28888728	2.2662985	21	—	—
328904 2010 TR_{40}	17.9	X	307.03345	217.85766	317.83558	3.17810	0.1140850	0.30069163	2.2065909	21	—	—
328905 2010 TP_{42}	17.8	X	165.15483	88.14532	3.89602	3.76084	0.1794557	0.23932709	2.5692605	21	6 7.2	21.9
328906 2010 TO_{129}	16.4	X	105.46508	48.41907	49.70540	13.95151	0.2322982	0.22415735	2.6839065	21	4 25.7	20.3
328907 2010 TD_{150}	17.0	X	213.17180	208.99411	143.08082	3.96431	0.1081494	0.23298884	2.6156480	21	3 20.5	20.9
328908 2010 TW_{155}	17.7	X	326.57270	80.49330	55.73848	4.94291	0.1440759	0.29372048	2.2413683	21	—	—
328909 2010 TR_{166}	16.7	X	130.16973	82.19305	2.29699	12.51560	0.2414495	0.22636107	2.6664589	21	4 28.0	21.1
328910 2010 TP_{167}	17.5	X	286.63283	10.31582	52.23560	4.80348	0.1752821	0.26280971	2.4138398	21	9 14.3	20.0
328911 2010 UZ_{9}	17.7	X	290.00964	217.93108	202.75392	0.85597	0.1653839	0.26254936	2.4154353	21	9 15.9	20.1
328912 2010 UW_{10}	16.3	X	106.42286	207.52587	225.20872	12.87095	0.1781689	0.21664166	2.7456262	21	3 11.7	20.3
328913 2010 UY_{10}	17.4	X	206.77706	185.66083	222.98004	3.08635	0.2342580	0.23815830	2.5776596	21	5 20.0	21.8
328914 2010 UT_{15}	16.9	X	159.33642	236.53367	203.72378	12.55383	0.2261945	0.23263324	2.6183128	21	5 22.1	21.4
328915 2010 UM_{21}	16.2	X	89.69215	245.89382	199.59425	11.67303	0.1297277	0.21783953	2.7355517	21	2 27.9	19.8
328916 2010 UH_{25}	17.7	X	95.59433	174.16945	227.43163	5.14677	0.1215130	0.29838617	2.2179423	21	—	—
328917 2010 US_{27}	16.5	X	80.61602	45.56508	52.82503	13.94517	0.1749285	0.21437575	2.7649393	21	3 22.0	20.1
328918 2010 US_{34}	17.8	X	330.06411	73.54449	3.71906	6.84588	0.0806061	0.27777208	2.3263604	21	—	—
328919 2010 UX_{35}	17.8	X	219.80012	15.13202	87.44485	3.59082	0.1552309	0.25378405	2.4707369	21	8 14.4	21.4
328920 2010 UO_{51}	16.4	X	72.78749	66.18010	52.41692	14.12257	0.1623375	0.21527506	2.7572336	21	4 2.9	19.9
328921 2010 UZ_{51}	17.4	X	311.81308	279.23369	157.17585	2.40849	0.1762208	0.27077806	2.3662487	21	11 25.9	19.1
328922 2010 UF_{57}	16.8	X	138.30560	214.28728	274.07769	4.93267	0.1723849	0.23398640	2.6082085	21	6 28.5	20.8
328923 2010 UG_{59}	17.8	X	295.50534	307.28124	350.11666	1.98549	0.0903165	0.32367025	2.1008781	21	4 1.7	20.1
328924 2010 UN_{64}	17.0	X	89.76858	82.16120	27.00725	5.12024	0.1207994	0.22095915	2.7097427	21	4 2.2	20.4
328925 2010 UO_{82}	17.6	X	109.69582	253.33262	130.17762	3.26640	0.1252042	0.30128484	2.2036935	21	—	—
328926 2010 UG_{95}	16.4	X	216.85265	223.89981	208.92528	14.60334	0.1025958	0.24473924	2.5312418	21	7 3.2	20.5
328927 2010 UP_{95}	16.6	X	200.64630	253.22327	152.60463	8.47593	0.2216168	0.23501767	2.6005729	21	5 14.3	21.2
328928 2010 UJ_{100}	15.6	X	273.31791	276.54126	219.83719	11.97652	0.1195336	0.18039438	3.1020875	21	11 25.6	19.7
328929 2010 VN	17.1	X	73.00901	234.64519	52.19362	22.02683	0.0545052	0.36057318	1.9549715	21	11 15.4	18.9
328930 2010 VG_{12}	17.4	X	294.23614	1.46470	50.96877	6.85618	0.1028231	0.26084726	2.4259315	21	9 24.6	20.1
328931 2010 VP_{13}	17.1	X	186.26903	219.42078	216.75125	1.71001	0.1046842	0.23645286	2.5900392	21	6 6.7	20.9
328932 2010 VX_{13}	17.3	X	313.51051	114.03355	52.04744	5.50853	0.0652448	0.29528502	2.2334442	21	—	—
328933 2010 VS_{17}	17.1	X	309.51691	304.93263	110.88825	11.68187	0.2401356	0.26483812	2.4014989	21	10 16.0	19.1
328934 2010 VV_{25}	16.8	X	330.18901	252.63237	220.93379	0.63964	0.1082350	0.18916784	3.0054155	21	—	—
328935 2010 VW_{25}	17.3	X	116.64580	63.32196	62.50593	3.09022	0.1513821	0.22847897	2.6499554	21	5 31.3	21.1
328936 2010 VS_{27}	17.4	X	65.60725	357.98335	64.69561	2.79856	0.0719825	0.29599123	2.2298902	21	—	—
328937 2010 VW_{37}	16.6	X	93.55634	262.04298	184.13219	8.23090	0.2786276	0.21467740	2.7623487	21	4 1.9	20.3
328938 2010 VM_{39}	16.9	X	347.89533	342.72586	82.89382	7.91480	0.1532913	0.27638773	2.3341220	21	—	—
328939 2010 VW_{39}	16.2	X	141.34598	182.65266	255.25423	12.75347	0.1271099	0.22656451	2.6648625	21	4 20.9	20.4
328940 2010 VW_{41}	16.8	X	130.73249	110.34557	55.10403	29.17699	0.0739575	0.24390497	2.5370106	21	8 10.9	21.1
328941 2010 VJ_{46}	17.0	X	91.58374	120.15453	7.32521	2.86809	0.0783082	0.22422236	2.6833878	21	4 20.7	20.5
328942 2010 VN_{57}	17.7	X	0.78951	282.52096	189.29675	3.31012	0.0603094	0.29225065	2.2488771	21	—	—
328943 2010 VB_{61}	16.3	X	177.09430	223.83797	203.65688	11.28028	0.2501071	0.23195453	2.6234179	21	5 21.3	21.0
328944 2010 VO_{62}	16.6	X	328.65256	79.14824	27.03983	4.98935	0.1290427	0.18479526	3.0526394	21	—	—
328945 2010 VR_{62}	17.4	X	28.18310	348.75473	38.19027	5.33569	0.1395245	0.27724134	2.3293284	21	—	—
328946 2010 VY_{62}	16.5	X	141.03503	42.84966	55.51537	12.51099	0.1480410	0.22702251	2.6612771	21	5 21.4	20.5
328947 2010 VJ_{69}	17.1	X	166.21283	279.75573	121.00590	5.51455	0.1985316	0.22599618	2.6693282	21	4 9.8	21.5
328948 2010 VQ_{71}	17.2	X	82.28447	318.68177	74.14667	6.79612	0.1046424	0.29367794	2.2415848	21	—	—
328949 2010 VL_{76}	17.1	X	332.75375	108.09124	53.25578	5.65805	0.0945595	0.29849686	2.2173940	21	—	—
328950 2010 VX_{85}	17.0	X	284.04720	29.47543	65.23404	7.44099	0.0334884	0.26596819	2.3946916	21	11 14.4	19.7
328951 2010 VM_{94}	17.8	X	247.84298	148.30584	55.89227	5.97813	0.0692701	0.28772517	2.2723967	21	—	—
328952 2010 VF_{105}	17.9	X	217.42228	40.73275	115.78174	2.72980	0.1077055	0.26469980	2.4023354	21	10 28.1	21.1
328953 2010 VT_{111}	16.9	X	122.08652	48.45875	81.58084	6.40194	0.1344090	0.23192085	2.6236718	21	6 10.1	20.7
328954 2010 VR_{120}	16.7	X	158.89880	61.44788	75.16054	8.39790	0.1423861	0.24106756	2.5568791	21	7 29.7	20.8
328955 2010 VW_{123}	17.1	X	169.26312	295.20206	269.15869	4.00340	0.1706239	0.26583144	2.3955128	21	11 1.0	21.0
328956 2010 VX_{130}	16.5	X	115.54102	186.65966	259.26102	3.93576	0.1326376	0.22098205	2.7095555	21	4 4.4	20.4
328957 2010 VP_{133}	17.6	X	149.11166	196.87866	205.48449	2.93234	0.0283418	0.31357389	2.1457352	21	2 20.1	20.0
328958 2010 VO_{134}	17.6	X	91.89418	31.50232	335.19798	4.03460	0.0300750	0.29070199	2.2568570	21	—	—
328959 2010 VG_{137}	17.2	X	12.47361	339.37649	68.58854	6.85246	0.0589776	0.28003142	2.3138305	21	—	—
328960 2010 VB_{142}	17.2	X	258.49691	8.73403	120.57958	4.36309	0.0538821	0.27088236	2.3656413	21	11 23.8	19.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
328961 2010 VJ_{148}	17.6	X	322.95045	34.32075	156.28033	3.79394	0.0710522	0.30116619	2.2042723	21	—	—
328962 2010 VP_{156}	16.7	X	121.84522	84.68005	28.56933	12.89816	0.2212558	0.22692702	2.6620236	21	5 25.7	21.0
328963 2010 VX_{158}	17.5	X	81.12059	230.81275	184.67017	7.05838	0.0717583	0.29920749	2.2138817	21	—	—
328964 2010 VN_{159}	16.8	X	192.38730	320.41196	126.01778	4.94135	0.1458408	0.24002752	2.5642598	21	6 25.8	20.7
328965 2010 VA_{160}	16.4	X	138.83212	280.47154	223.21447	12.09649	0.1224414	0.23685854	2.5870809	21	7 12.5	20.6
328966 2010 VF_{165}	17.7	X	0.88653	7.41591	31.68888	3.03116	0.1626288	0.27398678	2.3477381	21	—	—
328967 2010 VW_{170}	16.5	X	79.74346	102.77849	59.06950	12.01469	0.0735373	0.22989392	2.6390709	21	5 20.3	19.8
328968 2010 VZ_{172}	17.2	X	296.48438	21.13815	70.29796	5.24062	0.1165741	0.26710804	2.3878740	21	11 20.9	19.6
328969 2010 VH_{173}	17.6	X	185.55544	267.32314	78.68077	2.42468	0.2431138	0.31212257	2.1523816	21	2 10.1	21.0
328970 2010 VU_{173}	17.2	X	284.15876	223.86872	250.32038	4.49940	0.1573891	0.27083536	2.3659150	21	11 27.4	19.4
328971 2010 VZ_{174}	16.9	X	125.58772	273.68724	207.44021	3.01552	0.1801621	0.22974347	2.6402229	21	6 7.4	20.8
328972 2010 VJ_{179}	17.5	X	272.38984	150.20935	39.63016	3.76622	0.1236317	0.28799559	2.2709740	21	—	—
328973 2010 VG_{181}	17.3	X	218.61793	348.85901	70.95363	7.84165	0.1583236	0.24130021	2.5552354	21	6 16.2	21.2
328974 2010 VY_{183}	17.0	X	180.25674	49.45282	4.52737	5.66874	0.1987194	0.23030765	2.6359093	21	5 3.6	21.5
328975 2010 VF_{184}	17.6	X	97.27871	17.93023	32.86855	1.58158	0.1482275	0.30219609	2.1992613	21	1 8.3	19.3
328976 2010 VO_{192}	16.1	X	5.44578	76.90868	338.42294	9.58242	0.1064261	0.18775786	3.0204429	21	—	—
328977 2010 VE_{194}	17.1	X	159.36272	14.42389	64.91877	7.28271	0.1859129	0.23052963	2.6342170	21	5 18.3	21.3
328978 2010 VJ_{199}	16.2	X	133.09353	24.28058	62.34939	14.16362	0.1552916	0.22626355	2.6672250	21	5 2.3	20.2
328979 2010 VB_{200}	17.4	X	114.95050	220.01321	132.78048	5.92393	0.2534801	0.29737938	2.2229455	21	—	—
328980 2010 VT_{200}	15.2	X	262.84000	299.88045	193.13142	25.75966	0.2420031	0.17403588	3.1771924	21	10 21.4	19.8
328981 2010 WL_{7}	17.3	X	319.08347	22.72038	35.68954	4.82509	0.1323974	0.26690058	2.3891112	21	11 12.5	19.2
328982 2010 WV_{7}	16.3	X	2.90007	63.95896	353.95640	9.72517	0.1000103	0.18714681	3.0270140	21	—	—
328983 2010 WH_{10}	16.6	X	317.46912	40.89823	253.48255	8.08057	0.0354140	0.23678796	2.5875950	21	5 17.6	19.8
328984 2010 WM_{14}	16.7	X	123.94907	281.09331	233.04130	12.49504	0.1323985	0.23752174	2.5822630	21	7 10.9	20.7
328985 2010 WD_{16}	17.5	X	274.08624	11.26511	75.60936	5.88716	0.1567995	0.26074439	2.4265695	21	10 2.9	20.4
328986 2010 WQ_{29}	17.3	X	31.65104	261.98263	118.11797	4.94978	0.1543953	0.27870733	2.3211531	21	—	—
328987 2010 WS_{29}	16.8	X	202.63064	328.39236	90.92360	10.09288	0.1685209	0.23719216	2.5846545	21	6 1.3	21.0
328988 2010 WB_{48}	17.3	X	204.16471	203.31907	64.87623	6.35632	0.0793195	0.29028792	2.2590026	21	—	—
328989 2010 WG_{55}	17.0	X	263.94560	107.36062	287.83004	1.65514	0.1936807	0.24400683	2.5363045	21	6 28.5	20.5
328990 2010 WD_{56}	17.1	X	162.88994	302.18224	140.95096	5.51395	0.0996300	0.23198463	2.6231910	21	5 23.1	21.1
328991 2010 WX_{63}	17.1	X	151.11277	60.75811	68.02788	5.10095	0.0289698	0.23885722	2.5726289	21	7 3.2	20.6
328992 2010 WZ_{65}	15.9	X	354.21520	16.20785	69.34787	6.67132	0.2088602	0.18406979	3.0606549	21	—	—
328993 2010 WY_{71}	16.7	X	214.68698	12.21864	69.76760	5.24254	0.0897110	0.24294667	2.5436777	21	7 17.0	20.3
328994 2010 XQ_{3}	16.8	X	169.31241	60.25238	70.53740	13.15307	0.0734860	0.24554292	2.5257156	21	8 2.3	20.6
328995 2010 XL_{8}	15.5	X	0.04304	151.62061	227.10199	8.89022	0.0924134	0.17333290	3.1857771	21	11 7.3	19.5
328996 2010 XL_{17}	16.8	X	92.77612	12.65043	105.97404	5.18722	0.0503092	0.21534341	2.7566502	21	4 10.8	20.5
328997 2010 XQ_{18}	16.5	X	199.81924	314.37587	124.60558	6.69097	0.2191038	0.23886092	2.5726023	21	6 21.6	20.9
328998 2010 XW_{20}	17.5	X	199.85343	242.48154	260.39419	1.96829	0.0841758	0.25505590	2.4625164	21	9 18.5	21.0
328999 2010 XK_{37}	16.0	X	275.67954	187.53025	315.58347	4.07870	0.1536375	0.17357071	3.1828665	21	11 29.7	20.3
329000 2010 XM_{37}	15.9	X	146.74352	261.88455	72.18042	4.94767	0.0488100	0.19325052	2.9629360	21	—	—
329001 2010 XD_{38}	17.1	X	9.84541	64.63806	321.49104	5.26354	0.1159228	0.26641421	2.3920181	21	12 26.5	19.8
329002 2010 XN_{43}	16.5	X	205.49836	293.63587	172.81091	10.58110	0.1519072	0.24569293	2.5246874	21	8 1.6	20.6
329003 2010 XJ_{45}	17.2	X	125.67384	288.46856	81.37665	7.20278	0.1377961	0.29901836	2.2148151	21	—	—
329004 2010 XC_{50}	16.7	X	170.21959	299.19230	118.31305	8.88637	0.1081679	0.22931119	2.6435400	21	4 30.9	20.8
329005 2010 XO_{57}	15.8	X	10.96220	321.97319	260.29934	11.93773	0.1206219	0.22278833	2.6948903	21	4 23.4	19.0
329006 2010 XQ_{59}	16.0	X	306.24796	157.34521	117.53537	10.42163	0.0295937	0.21388808	2.7691405	21	4 14.5	19.9
329007 2010 XO_{62}	15.3	X	278.62357	46.93248	84.61790	17.46785	0.1982531	0.17319816	3.1874291	21	11 18.1	19.6
329008 2010 XZ_{64}	14.1	X	311.32126	356.15552	99.05332	8.72081	0.0861156	0.08427848	5.1521866	21	11 15.7	20.6
329009 2010 XD_{68}	16.5	X	198.49965	327.03949	80.83984	14.04373	0.2610678	0.22977966	2.6399457	21	5 15.4	21.3
329010 2010 XV_{75}	15.8	X	44.40415	41.08422	82.96183	14.62951	0.1793756	0.20636883	2.8360028	21	2 21.7	19.0
329011 2010 XY_{76}	17.0	X	63.10738	25.88555	102.38650	4.70853	0.1342975	0.21342261	2.7731654	21	3 23.4	20.2
329012 2010 XW_{78}	15.3	X	328.52614	347.59439	88.87476	16.73953	0.0553152	0.17848678	3.1241510	21	12 5.4	19.4
329013 2010 XV_{84}	17.0	X	33.22282	294.54266	81.81556	7.19378	0.1306055	0.27579195	2.3374823	21	—	—
329014 2010 YM_{5}	16.5	X	328.50347	218.94734	54.97982	3.82353	0.0190712	0.22405879	2.6846936	21	5 8.9	19.9
329015 2011 AG	16.1	X	351.96509	7.33046	120.77846	6.44953	0.1099639	0.18924946	3.0045512	21	—	—
329016 2011 AO_{2}	15.6	X	254.34496	253.56626	301.95866	8.02768	0.1199659	0.18004743	3.1060714	21	—	—
329017 2011 AL_{6}	15.4	X	9.36152	100.84375	313.58308	14.95206	0.2229532	0.17991748	3.1075668	21	—	—
329018 2011 AV_{6}	15.8	X	135.15328	182.54474	111.65681	10.42724	0.0487261	0.17848957	3.1241184	21	—	—
329019 2011 AB_{8}	16.7	X	56.46242	195.32067	265.06539	1.48783	0.1151515	0.20080785	2.8881224	21	2 1.1	20.1
329020 2011 AY_{8}	16.8	X	171.76704	338.25810	95.14131	3.65490	0.0481042	0.22443912	2.6816598	21	5 17.6	20.5
329021 2011 AL_{9}	16.4	X	15.10963	99.10374	297.41976	9.09684	0.0372635	0.17388934	3.1789771	21	12 15.2	20.8
329022 2011 AS_{11}	15.6	X	147.68056	31.31406	303.57938	9.77933	0.0950373	0.19161324	2.9797903	21	—	—
329023 2011 AX_{13}	15.8	X	295.95216	211.89586	103.87278	12.29216	0.0784241	0.22402946	2.6849279	21	5 15.6	19.5
329024 2011 AF_{14}	16.9	X	289.10142	255.92987	57.05472	3.72557	0.1668682	0.22179878	2.7028998	21	4 16.4	20.5
329025 2011 AX_{18}	16.3	X	257.04009	277.00016	336.09538	8.21181	0.1692955	0.19101000	2.9860608	21	1 5.9	21.3
329026 2011 AF_{22}	15.9	X	353.56314	308.20733	123.73349	10.71598	0.1542434	0.17888743	3.1194845	21	—	—
329027 2011 AO_{22}	15.9	X	237.89973	215.61987	92.51818	7.25727	0.0482679	0.20447236	2.8535116	21	2 28.6	20.1
329028 2011 AL_{23}	15.6	X	107.97749	254.93227	105.45905	13.84211	0.0839857	0.18878578	3.0094689	21	—	—
329029 2011 AF_{25}	17.2	X	343.91648	298.13441	119.62348	6.86663	0.1281021	0.26718029	2.3874435	21	12 29.8	19.6
329030 2011 AO_{25}	16.9	X	257.38625	345.83945	79.77980	2.88958	0.0499812	0.24409724	2.5356782	21	8 23.6	20.3
329031 2011 AV_{25}	16.9	X	149.50171	253.74995	153.84294	2.81470	0.0719114	0.21142811	2.7905784	21	3 22.4	20.9
329032 2011 AC_{30}	15.4	X	240.56976	110.51056	113.90956	24.89127	0.2063682	0.17851202	3.1238565	21	—	—
329033 2011 AV_{30}	15.6	X	94.56480	195.35474	317.01015	1.79269	0.1235489	0.12544425	3.9521693	21	6 8.3	21.2
329034 2011 AC_{32}	15.3	X	90.92905	263.48468	94.13960	11.92337	0.0484354	0.18248890	3.0783058	21	—	—
329035 2011 AJ_{33}	17.4	X	128.54405	98.71462	344.52529	4.00237	0.0496428	0.21417284	2.7666854	21	4 6.8	21.1
329036 2011 AE_{35}	15.2	X	316.60280	136.48291	310.71822	16.39756	0.2314915	0.17382377	3.1797766	21	11 12.1	18.9
329037 2011 AH_{38}	16.8	X	187.61805	107.19111	294.16409	3.89695	0.0692379	0.22071062	2.7117765	21	4 22.7	20.9
329038 2011 AU_{40}	16.8	X	272.85732	320.83261	15.84728	2.90073	0.1261135	0.22550468	2.6732054	21	5 1.4	20.6
329039 2011 AG_{41}	16.9	X	25.41456	265.44676	69.70668	5.38147	0.1913176	0.25601638	2.4563536	21	11 19.7	19.6
329040 2011 AY_{41}	16.7	X	69.51379	90.35578	55.98920	5.57708	0.0130691	0.21376677	2.7701881	21	4 10.1	20.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
329041 2011 AP_{42}	16.3	X	140.22291	206.28633	73.38639	5.01012	0.0240259	0.17282130	3.1920612	21	12 21.6	21.0
329042 2011 AK_{43}	16.0	X	187.30601	168.63831	120.42402	11.67585	0.1203082	0.18445282	3.0564164	21	—	—
329043 2011 AY_{43}	16.0	X	14.16157	322.15546	117.84794	10.41081	0.0987912	0.18190491	3.0848906	21	—	—
329044 2011 AX_{44}	17.5	X	330.11570	3.75643	22.33379	0.87131	0.1893079	0.25385458	2.4702792	21	10 12.7	19.5
329045 2011 AY_{46}	15.9	X	183.25302	185.15808	143.80553	12.19788	0.0454296	0.19326271	2.9628114	21	1 22.5	20.3
329046 2011 AZ_{50}	16.9	X	333.63912	356.76468	256.42521	7.13562	0.0310869	0.21544649	2.7557708	21	4 14.9	20.7
329047 2011 AC_{51}	16.8	X	157.31386	194.67228	210.87341	5.36822	0.0470611	0.21140833	2.7907525	21	3 24.6	20.9
329048 2011 AZ_{51}	16.9	X	1.73230	64.54794	206.55653	5.84059	0.1203816	0.22625639	2.6672813	21	6 20.4	19.8
329049 2011 AR_{52}	16.4	X	299.15676	292.59103	99.70619	15.00626	0.1175918	0.24505438	2.5290713	21	9 1.7	19.6
329050 2011 AO_{53}	15.1	X	310.20527	34.74283	110.41796	18.26533	0.1690667	0.17866427	3.1220815	21	—	—
329051 2011 AN_{54}	16.1	X	217.30445	130.31596	102.44402	6.18901	0.0977173	0.17926576	3.1150939	21	—	—
329052 2011 AR_{58}	16.6	X	356.46420	304.36235	133.02398	1.63368	0.1551664	0.17992247	3.1075093	21	—	—
329053 2011 AN_{59}	16.6	X	5.24295	141.25413	141.46948	2.02823	0.1691946	0.23078056	2.6323072	21	7 16.4	18.8
329054 2011 AU_{59}	16.7	X	29.69792	312.16890	125.59293	5.54606	0.1345626	0.18776949	3.0203182	21	—	—
329055 2011 AN_{60}	16.2	X	201.38253	253.53074	128.16282	7.17452	0.0303677	0.21443903	2.7643954	21	4 18.9	20.2
329056 2011 AA_{64}	16.5	X	11.82624	337.15009	305.81052	7.16384	0.1453927	0.23389381	2.6088968	21	7 29.9	19.0
329057 2011 AF_{66}	16.9	X	195.20565	177.36022	119.97954	6.60579	0.1774103	0.28275581	2.2989438	21	—	—
329058 2011 AK_{68}	16.5	X	46.57838	108.75654	307.36812	3.81929	0.1147934	0.18327165	3.0695345	21	—	—
329059 2011 AE_{70}	15.7	X	55.85396	314.67258	88.05446	12.92148	0.0608134	0.18564601	3.0433061	21	—	—
329060 2011 AT_{70}	16.2	X	227.79680	204.30187	106.10893	8.37119	0.0797706	0.20519873	2.8467737	21	2 17.7	20.5
329061 2011 AX_{71}	16.1	X	327.25387	53.14510	79.60525	11.05262	0.1194947	0.18311477	3.0712874	21	—	—
329062 2011 AH_{72}	16.8	X	193.14957	16.14535	73.48528	4.29135	0.1078461	0.23467354	2.6031146	21	7 1.7	20.8
329063 2011 AR_{72}	16.6	X	88.56261	24.44605	83.57513	5.00326	0.0592305	0.21070718	2.7969401	21	3 24.2	20.3
329064 2011 AT_{74}	16.3	X	207.25040	303.03703	78.17864	14.74467	0.1609343	0.22386190	2.6862675	21	4 24.7	20.9
329065 2011 AS_{76}	15.6	X	125.63412	25.14168	84.56537	3.90056	0.1941545	0.12503849	3.9607148	21	5 29.1	21.7
329066 2011 BM_{2}	17.3	X	85.75843	157.17308	6.92782	2.87132	0.0222850	0.22502909	2.6769707	21	5 23.5	20.9
329067 2011 BW_{2}	16.3	X	278.09074	224.99031	53.28785	5.66815	0.1272710	0.21066759	2.7972905	21	2 27.4	20.4
329068 2011 BP_{4}	16.2	X	7.86934	87.77006	127.20897	9.52265	0.0984055	0.21278022	2.7787440	21	4 17.8	19.6
329069 2011 BV_{7}	16.9	X	307.23060	240.61278	113.37737	4.29889	0.0968059	0.23838969	2.5759914	21	7 17.8	19.8
329070 2011 BD_{8}	16.0	X	267.27662	246.94759	304.42845	3.42039	0.1022366	0.18002451	3.1063351	21	—	—
329071 2011 BO_{8}	16.4	X	203.11620	178.09967	67.48141	2.26829	0.1374283	0.17671151	3.1450399	21	—	—
329072 2011 BB_{11}	16.1	X	277.33422	31.51990	163.69681	5.43125	0.0668580	0.18464535	3.0542914	21	—	—
329073 2011 BJ_{12}	15.9	X	294.97554	229.60483	274.95887	7.47469	0.0680518	0.17721076	3.1391302	21	—	—
329074 2011 BL_{14}	15.2	X	169.40345	180.91832	143.56704	12.03576	0.0562639	0.18515564	3.0486770	21	1 4.9	19.9
329075 2011 BV_{14}	15.7	X	341.86395	343.93931	132.81953	12.45890	0.2382925	0.18373339	3.0643896	21	—	—
329076 2011 BL_{17}	16.1	X	11.51273	287.76488	123.12700	6.29631	0.1721295	0.17724774	3.1386935	21	—	—
329077 2011 BY_{26}	15.9	X	333.47566	113.91109	139.73363	13.82002	0.0738923	0.21312215	2.7757711	21	4 18.8	19.7
329078 2011 BA_{27}	15.6	X	1.97525	313.72948	151.88943	10.84246	0.0701375	0.18118498	3.0930569	21	—	—
329079 2011 BD_{30}	16.8	X	339.55546	241.67897	92.03843	10.96934	0.1346271	0.24085070	2.5584137	21	8 14.9	19.5
329080 2011 BB_{32}	15.6	X	216.76144	137.91533	121.62568	10.67162	0.0253437	0.18419165	3.0593049	21	—	—
329081 2011 BN_{34}	15.0	X	197.47176	10.11772	139.59687	17.73612	0.0450721	0.15115016	3.4903072	21	9 23.3	20.3
329082 2011 BG_{46}	15.8	X	229.34914	88.73375	154.10341	12.09425	0.0881021	0.17937281	3.1138544	21	—	—
329083 2011 BM_{47}	17.0	X	242.21962	201.32412	186.05428	5.83722	0.0426311	0.22511959	2.6762531	21	6 11.7	20.8
329084 2011 BX_{48}	15.3	X	350.74652	14.69769	126.42730	15.26246	0.0533385	0.18561960	3.0435948	21	—	—
329085 2011 BD_{50}	15.2	X	139.71185	136.33482	113.87117	11.07465	0.0306929	0.15768383	3.3932143	21	11 17.7	20.3
329086 2011 BQ_{53}	15.8	X	114.07908	250.58320	129.72459	10.20827	0.0928407	0.19160769	2.9798479	21	1 11.7	19.9
329087 2011 BK_{54}	15.9	X	103.30772	292.36435	85.31577	10.55784	0.1165961	0.18962485	3.0005846	21	—	—
329088 2011 BC_{56}	16.0	X	34.71681	184.17749	273.01195	9.39479	0.0896956	0.19232696	2.9724138	21	—	—
329089 2011 BJ_{63}	16.7	X	282.15967	0.35384	336.08687	3.09812	0.1120404	0.22388171	2.6861090	21	5 14.4	20.5
329090 2011 BU_{78}	15.3	X	147.91044	203.06583	155.21104	9.10175	0.1077280	0.19513907	2.9437882	21	1 24.3	19.8
329091 2011 BC_{85}	16.1	X	323.93147	45.62691	126.73143	10.62539	0.0318385	0.18962398	3.0005938	21	—	—
329092 2011 BL_{87}	16.6	X	174.77671	267.55995	121.08367	5.77684	0.0622792	0.21122694	2.7923499	21	3 28.4	20.7
329093 2011 BN_{92}	15.8	X	244.82290	99.72607	149.45683	16.73902	0.1337818	0.18515622	3.0486706	21	—	—
329094 2011 BE_{98}	15.5	X	144.95206	179.21986	106.88278	13.34037	0.1367953	0.17229515	3.1985564	21	—	—
329095 2011 BR_{100}	15.8	X	358.11234	316.40255	163.82019	12.36692	0.0179050	0.18128105	3.0919641	21	—	—
329096 2011 BK_{102}	16.7	X	44.31603	294.34474	98.53021	2.99030	0.1740741	0.18271171	3.0758026	21	—	—
329097 2011 BZ_{115}	17.0	X	254.26790	268.33483	98.09452	3.37842	0.1166247	0.22843932	2.6502620	21	5 20.8	20.8
329098 2011 BL_{117}	16.9	X	206.20278	333.97136	64.63693	6.77854	0.1411416	0.22711204	2.6605776	21	5 10.3	21.1
329099 2011 BN_{118}	16.4	X	197.44836	262.85579	78.54388	8.09824	0.0672322	0.20476388	2.8508027	21	2 25.0	20.8
329100 2011 BY_{119}	16.8	X	279.69939	318.35486	213.53697	0.46905	0.1112932	0.17914527	3.1164906	21	—	—
329101 2011 BB_{122}	16.4	X	234.37219	65.50624	119.80187	2.21154	0.0266168	0.16919558	3.2375020	21	12 16.7	21.0
329102 2011 BM_{123}	16.5	X	327.24721	236.69543	92.06631	5.29073	0.1504621	0.23174135	2.6250265	21	7 8.3	19.1
329103 2011 BE_{134}	16.1	X	159.49206	181.09531	81.16783	4.73356	0.0563270	0.17262780	3.1944460	21	12 22.1	20.7
329104 2011 BV_{135}	16.1	X	222.80149	177.83473	91.52994	7.16221	0.2172536	0.18863373	3.0110859	21	—	—
329105 2011 CG_{3}	15.6	X	61.57314	122.88373	287.31445	8.65053	0.0647024	0.18580680	3.0415502	21	—	—
329106 2011 CV_{3}	16.0	X	221.39252	77.07194	152.22086	10.42836	0.0375585	0.17609339	3.1523954	21	—	—
329107 2011 CG_{8}	15.9	X	6.67743	83.74255	346.38757	4.17575	0.1128076	0.17535010	3.1612975	21	—	—
329108 2011 CG_{11}	16.7	X	296.43550	147.75548	148.35697	5.43662	0.1180800	0.21329444	2.7742762	21	4 12.9	20.5
329109 2011 CL_{11}	16.4	X	19.36835	306.47081	151.30950	2.80388	0.0552357	0.18526123	3.0475185	21	—	—
329110 2011 CM_{13}	15.6	X	17.77866	47.06362	95.79425	9.88388	0.0132247	0.19573353	2.9378248	21	1 31.1	19.6
329111 2011 CG_{15}	16.2	X	54.62052	274.38134	133.04448	3.38818	0.0918933	0.18383831	3.0632236	21	—	—
329112 2011 CM_{15}	16.1	X	184.13081	254.97946	77.15465	4.51603	0.0817747	0.19423329	2.9529330	21	1 30.8	20.6
329113 2011 CQ_{18}	15.4	X	122.58577	96.29937	25.54716	5.08137	0.2343962	0.12409346	3.9807979	21	6 12.2	21.7
329114 2011 CM_{19}	17.1	X	306.68432	241.54732	144.93788	5.12527	0.0957730	0.24749600	2.5124105	21	9 3.9	19.7
329115 2011 CS_{20}	16.1	X	233.38764	104.33515	115.03881	2.52303	0.0362427	0.17605827	3.1528146	21	—	—
329116 2011 CS_{26}	15.4	X	184.97711	172.09107	119.42239	10.89187	0.0407005	0.18268452	3.0761078	21	—	—
329117 2011 CG_{27}	15.5	X	322.31289	293.34930	155.40575	14.68686	0.1767591	0.17091807	3.2157139	21	12 6.7	19.4
329118 2011 CJ_{32}	16.6	X	266.39820	189.05819	132.75194	5.88120	0.0454065	0.21163176	2.7887879	21	4 19.4	20.5
329119 2011 CP_{32}	16.3	X	76.39265	313.90517	134.44691	12.83051	0.0058222	0.19790649	2.9162809	21	2 4.4	20.4
329120 2011 CX_{37}	17.0	X	230.61594	4.24338	351.86756	3.95609	0.0856133	0.21546011	2.7556547	21	4 13.1	21.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
329121 2011 CK_{49}	15.8	X	34.52249	280.03569	136.89072	10.17903	0.1383133	0.18284619	3.0742943	21	—	—
329122 2011 CO_{50}	15.1	X	146.76109	298.58866	290.06986	10.67180	0.0361351	0.15648759	3.4104848	21	10 23.6	20.3
329123 2011 CL_{59}	16.5	X	124.57486	211.69209	147.52513	5.32738	0.1003862	0.18645679	3.0344774	21	1 1.1	20.8
329124 2011 CU_{60}	16.4	X	42.72456	218.92575	160.13299	2.75301	0.0259888	0.16866114	3.2443376	21	12 25.8	20.9
329125 2011 CP_{64}	15.5	X	200.48284	201.04877	47.52251	8.52235	0.0790423	0.17263962	3.1943002	21	—	—
329126 2011 CB_{67}	16.7	X	235.64986	260.88771	148.86815	4.56176	0.0356733	0.23073097	2.6326843	21	7 3.6	20.4
329127 2011 CU_{67}	15.3	X	127.02539	220.17950	131.00638	11.80051	0.0020829	0.18193510	3.0845493	21	—	—
329128 2011 CW_{70}	16.2	X	20.46620	263.56120	202.41990	2.27305	0.1205531	0.18585325	3.0410433	21	—	—
329129 2011 CO_{71}	15.2	X	319.50835	23.34983	122.73749	10.42617	0.0862396	0.17902407	3.1178971	21	—	—
329130 2011 CX_{74}	15.5	X	61.83844	278.48470	143.70573	10.75766	0.1474365	0.18718523	3.0265998	21	—	—
329131 2011 CK_{75}	16.3	X	334.59542	354.85970	47.51289	10.36374	0.1265912	0.25708996	2.4495105	21	11 16.2	18.6
329132 2011 CM_{75}	15.5	X	227.19646	52.05271	170.33747	13.55914	0.1142018	0.17236617	3.1976778	21	—	—
329133 2011 CZ_{89}	16.1	X	159.59918	158.63365	158.18573	10.72167	0.0375760	0.18122556	3.0925952	21	—	—
329134 2011 CL_{90}	16.0	X	239.03435	118.78038	160.57892	9.58144	0.1280370	0.18899089	3.0072911	21	1 20.3	20.8
329135 2011 CA_{106}	16.7	X	81.98084	94.72713	306.01466	1.90248	0.1678971	0.18702627	3.0283145	21	1 6.0	20.2
329136 2011 DG_{5}	15.7	X	307.35532	71.26773	67.69290	11.72182	0.1000435	0.17700639	3.1415460	21	—	—
329137 2011 DU_{14}	16.3	X	185.81183	229.96142	157.85301	9.71667	0.1887337	0.21320137	2.7750835	21	4 11.5	21.0
329138 2011 DH_{25}	16.0	X	205.03209	106.39822	147.18780	6.55919	0.1235090	0.17735565	3.1374202	21	—	—
329139 2011 DY_{26}	15.4	X	266.94586	45.00901	145.86805	11.00245	0.0522193	0.17581112	3.1557687	21	—	—
329140 2011 DP_{45}	15.7	X	21.64427	259.59774	150.45821	5.67170	0.0577047	0.16833987	3.2484640	21	—	—
329141 2011 EW_{8}	15.9	X	261.58905	77.99942	131.41690	10.42100	0.0568603	0.18002599	3.1063180	21	—	—
329142 2011 EN_{55}	15.5	X	153.14308	246.06984	79.86030	11.79595	0.0732405	0.17674982	3.1445854	21	—	—
329143 2011 EO_{75}	15.3	X	204.58683	128.48043	131.46897	14.35232	0.1065960	0.17444893	3.1721753	21	—	—
329144 2011 UZ_{192}	16.9	X	121.27766	261.61143	222.76787	12.58888	0.4287659	0.23817859	2.5775132	21	6 26.5	21.8
329145 2011 WB_{67}	14.7	X	154.07780	34.95320	78.69942	10.93918	0.0554380	0.14742013	3.5489362	21	6 19.4	19.9
329146 2011 YO_{21}	15.5	X	252.73869	137.10135	344.45662	10.48009	0.0384052	0.17831921	3.1261079	21	10 18.9	20.1
329147 2011 YF_{31}	17.5	X	160.82178	279.18519	147.38589	2.25824	0.1660948	0.24219111	2.5489653	21	5 2.3	21.5
329148 2011 YB_{67}	15.3	X	31.22278	239.95992	101.89639	15.92605	0.0570910	0.17872080	3.1214231	21	11 8.9	19.8
329149 2011 YG_{68}	16.3	X	226.14718	240.75047	325.44343	7.14099	0.1662002	0.18765459	3.0215510	21	12 18.0	20.9
329150 2011 YC_{73}	13.6	X	347.20192	70.01589	337.40216	6.33379	0.0945007	0.08339222	5.1886258	21	11 4.8	20.0
329151 2012 AV_{16}	14.9	X	74.49981	328.10451	328.73017	13.96442	0.0998041	0.17381352	3.1799015	21	10 31.5	19.8
329152 2012 BH_{18}	17.6	X	135.26389	281.93921	201.86386	1.94480	0.1618160	0.24478412	2.5309325	21	6 18.6	21.4
329153 2012 BG_{19}	15.0	X	167.85830	84.48314	138.98714	16.71057	0.0376334	0.17952805	3.1120592	21	11 21.9	19.9
329154 2012 BT_{22}	16.5	X	84.28009	21.85974	115.72691	15.38659	0.0803529	0.23175889	2.6248940	21	5 1.8	20.2
329155 2012 BX_{22}	15.6	X	241.93231	23.21594	112.93741	12.30282	0.0892750	0.17895226	3.1187311	21	10 26.6	20.3
329156 2012 BK_{25}	15.7	X	240.69438	148.93407	8.81813	17.62621	0.1852591	0.17773284	3.1329798	21	10 28.3	20.6
329157 2012 BZ_{51}	16.5	X	0.00492	10.42621	166.44178	5.15989	0.0537699	0.21869655	2.7284004	21	2 9.9	19.9
329158 2012 BU_{54}	15.4	X	359.32269	277.05805	136.10968	12.39376	0.0514480	0.18261963	3.0768364	21	12 18.9	19.7
329159 2012 BA_{59}	17.3	X	158.47785	121.75282	30.37847	2.04417	0.1050224	0.26144019	2.4222622	21	8 17.5	20.7
329160 2012 BJ_{74}	15.3	X	168.21621	48.01367	143.21422	10.70344	0.0594284	0.17145123	3.2090438	21	10 12.3	20.2
329161 2012 BR_{87}	16.6	X	38.27594	147.31315	332.62644	4.26079	0.0642154	0.21510059	2.7587244	21	1 24.6	20.1
329162 2012 BC_{88}	15.7	X	4.02515	270.49445	130.90624	11.38967	0.1180066	0.18271628	3.0757513	21	12 17.1	19.6
329163 2012 BH_{101}	18.1	X	251.76830	325.81948	186.79419	5.57341	0.0932705	0.28423197	2.2909772	21	12 12.4	20.7
329164 2012 BA_{107}	15.5	X	40.37185	226.71041	346.72492	31.77758	0.1984082	0.23134601	2.6280162	21	6 19.6	19.1
329165 2012 BM_{120}	17.0	X	67.87147	249.81124	147.22869	4.65054	0.1086293	0.20493510	2.8492145	21	—	—
329166 2012 CH_{2}	16.5	X	13.89087	171.59383	337.41249	8.72658	0.0306502	0.21446478	2.7641741	21	1 29.6	20.1
329167 2012 CX_{14}	17.1	X	17.82308	347.19706	137.32453	5.32965	0.1496681	0.21058414	2.7980294	21	—	—
329168 2012 CW_{39}	16.0	X	292.31236	281.10067	174.60406	4.74074	0.0904041	0.17902816	3.1178496	21	11 5.7	20.0
329169 2012 CG_{47}	16.6	X	38.00864	167.94869	12.30206	8.39003	0.0897746	0.22669185	2.6638644	21	4 12.3	19.7
329170 2012 CH_{50}	16.3	X	209.21861	134.26017	175.44108	4.59875	0.0481300	0.21198799	2.7856628	21	1 24.4	20.5
329171 2012 CG_{55}	15.3	X	198.90951	6.05301	161.61728	11.90423	0.0576288	0.16924322	3.2368944	21	10 16.2	20.2
329172 2012 CH_{55}	15.4	X	191.42098	242.51928	347.16572	15.82973	0.1999432	0.17766286	3.1338024	21	12 7.0	20.9
329173 2012 DY_{3}	16.7	X	102.98128	116.91554	1.89467	31.12786	0.2718418	0.23413939	2.6070722	21	5 5.6	21.1
329174 2012 DO_{12}	15.9	X	85.51910	338.39720	77.44435	8.42904	0.0602835	0.21309617	2.7759967	21	1 9.9	19.5
329175 2012 DQ_{13}	16.1	X	330.28649	54.21311	180.34419	8.48151	0.0747572	0.21527379	2.7572445	21	3 13.3	19.6
329176 2012 DA_{17}	16.9	X	84.79878	161.24168	82.02246	2.93224	0.1619474	0.25327288	2.4740601	21	10 1.5	20.4
329177 2012 DQ_{19}	17.5	X	198.93156	258.86646	343.28474	3.01177	0.0313471	0.28909057	2.2652359	21	—	—
329178 2012 DP_{21}	17.8	X	249.49092	106.40715	1.44815	1.26353	0.1447572	0.27117642	2.3639309	21	9 26.8	20.7
329179 2012 DF_{22}	15.9	X	355.67764	213.42790	8.24972	16.79194	0.1878454	0.22117447	2.7079838	21	3 24.0	18.6
329180 2012 DC_{23}	16.0	X	165.36105	282.58901	316.64296	8.57964	0.0219017	0.17563567	3.1578699	21	12 1.7	20.8
329181 2012 DW_{23}	17.0	X	23.96159	3.87968	161.62763	5.37309	0.0894049	0.21607298	2.7504415	21	3 2.7	20.2
329182 2012 DZ_{25}	15.4	X	181.15031	265.16365	24.19037	13.65760	0.1239898	0.18528839	3.0472207	21	—	—
329183 2012 DN_{27}	17.3	X	134.90411	84.00857	167.90541	6.34997	0.2151934	0.26668946	2.3903719	21	12 1.7	21.5
329184 2012 DR_{27}	17.1	X	45.72634	239.01443	0.09451	7.02976	0.1550040	0.23838787	2.5760045	21	8 1.0	20.1
329185 2012 DN_{28}	17.1	X	220.71529	171.28323	11.00648	6.64928	0.0412946	0.27826759	2.3235979	21	12 15.4	20.0
329186 2012 DV_{28}	17.6	X	248.02750	117.71697	44.80993	2.83656	0.0912413	0.28110481	2.3079365	21	12 19.7	20.3
329187 2012 DM_{29}	15.8	X	17.55747	350.60009	106.94916	3.10684	0.0699033	0.19477412	2.9474643	21	—	—
329188 2012 DP_{29}	16.5	X	348.96552	192.03012	19.56769	7.44794	0.1289330	0.21548745	2.7554217	21	3 7.4	19.7
329189 2012 DQ_{31}	15.4	X	315.92130	81.31544	348.97681	11.47818	0.1418440	0.17414343	3.1758842	21	10 28.2	19.4
329190 2012 DB_{32}	15.6	X	108.24093	175.78844	147.43537	10.73828	0.0155900	0.18191191	3.0848115	21	—	—
329191 2012 DB_{36}	16.4	X	11.28074	24.45759	183.57418	16.72849	0.1733344	0.22137343	2.7063609	21	4 6.6	18.9
329192 2012 DJ_{36}	18.3	X	358.35933	267.91545	184.15508	3.99228	0.1111530	0.29700936	2.2247914	21	—	—
329193 2012 DF_{39}	16.0	X	150.07956	101.73161	247.87060	0.93228	0.0771556	0.19930088	2.9026627	21	1 12.9	20.2
329194 2012 DG_{39}	17.9	X	233.04053	192.53771	321.56276	0.69100	0.1190265	0.27457465	2.3443859	21	11 11.5	21.0
329195 2012 DL_{40}	17.6	X	257.28924	265.77651	174.86473	1.31365	0.1474676	0.26358423	2.4091089	21	8 28.9	20.6
329196 2012 DD_{45}	16.5	X	13.82413	127.65058	28.24575	9.32833	0.2092623	0.21060520	2.7978429	21	1 28.9	19.4
329197 2012 DU_{45}	17.8	X	187.22528	24.27264	103.87903	3.50862	0.1439075	0.25486454	2.4637489	21	8 15.2	21.5
329198 2012 DL_{46}	17.9	X	257.88551	101.28802	10.32395	2.33187	0.1643487	0.27230905	2.3573713	21	10 10.4	20.8
329199 2012 DP_{46}	17.2	X	263.71154	78.12178	36.77074	6.31205	0.1822871	0.27620287	2.3351633	21	10 22.0	19.9
329200 2012 DS_{47}	16.6	X	343.01721	54.26735	169.68727	5.83025	0.1194563	0.21710612	2.7417089	21	3 12.7	19.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
329201 2012 DM_{48}	17.4	X	224.54432	358.47782	162.40744	6.46693	0.0533776	0.27565041	2.3382824	21	11 21.6	20.5
329202 2012 DA_{49}	16.7	X	170.81905	20.53273	8.97377	4.73470	0.0206885	0.21809912	2.7333806	21	3 19.2	20.3
329203 2012 DE_{49}	17.5	X	311.00926	87.92670	143.76944	6.30241	0.1376863	0.31488329	2.1397825	21	1 13.7	20.3
329204 2012 DL_{49}	15.7	X	232.13046	96.06197	73.64816	10.69901	0.2418100	0.17541233	3.1605498	21	11 4.4	20.7
329205 2012 DV_{52}	16.0	X	236.92445	30.52826	198.99582	8.51535	0.2023244	0.18355701	3.0663524	21	—	—
329206 2012 DN_{53}	17.1	X	117.37910	145.35411	96.29931	3.46799	0.1379903	0.26011593	2.4304764	21	10 31.7	20.8
329207 2012 DT_{54}	16.5	X	329.01831	304.08799	165.25194	2.39399	0.0482143	0.18625229	3.0366982	21	—	—
329208 2012 DX_{55}	15.8	X	206.36617	49.53289	175.68115	17.32721	0.1852024	0.17752421	3.1354339	21	12 18.3	21.1
329209 2012 DW_{57}	17.7	X	218.66095	15.69696	174.04100	4.77088	0.0722995	0.28563490	2.2834694	21	12 20.3	20.6
329210 2012 DF_{58}	15.4	X	315.19594	302.98056	169.42621	18.31355	0.1648048	0.18338225	3.0683002	21	12 26.4	19.3
329211 2012 DO_{59}	17.3	X	201.37693	199.97671	358.92097	7.78942	0.0411459	0.27811617	2.3244411	21	12 12.0	20.3
329212 2012 DN_{61}	15.6	X	150.05199	127.87800	184.77063	21.63020	0.0594614	0.18570928	3.0426148	21	—	—
329213 2012 DT_{73}	17.8	X	152.49114	193.34135	358.82833	0.15043	0.1562560	0.26274554	2.4142328	21	10 2.5	21.7
329214 2012 DT_{75}	16.0	X	199.81386	51.17093	191.84863	4.68338	0.0572776	0.17864257	3.1223344	21	—	—
329215 2012 DK_{76}	17.3	X	295.75645	115.69230	345.12579	2.58933	0.0786402	0.28101867	2.3084082	21	12 9.3	19.7
329216 2012 DV_{76}	17.0	X	109.28143	213.44228	324.00852	1.95337	0.0704341	0.24202194	2.5501529	21	7 20.7	20.4
329217 2012 DM_{77}	17.0	X	145.06407	153.31075	98.60224	5.10669	0.1942528	0.26882898	2.3776723	21	12 9.4	20.9
329218 2012 DS_{77}	17.3	X	243.22151	179.47036	311.40346	5.26350	0.1471700	0.27553396	2.3389412	21	10 17.6	20.4
329219 2012 DX_{81}	16.6	X	346.35290	237.65473	342.98037	9.11411	0.1004742	0.22017651	2.7161602	21	3 13.9	19.9
329220 2012 DY_{81}	16.5	X	136.24412	36.16322	347.02182	5.51972	0.0199374	0.20914403	2.8108590	21	1 30.1	20.3
329221 2012 DX_{82}	17.0	X	310.21294	192.70118	110.59830	4.99704	0.0911163	0.22890281	2.6466832	21	5 14.0	20.4
329222 2012 DP_{83}	17.2	X	196.32034	338.69677	170.72037	6.02932	0.1652456	0.26548866	2.3975743	21	9 19.7	20.9
329223 2012 DV_{83}	17.3	X	221.37273	146.31077	92.57147	3.59395	0.1795033	0.28853226	2.2681571	21	—	—
329224 2012 DK_{86}	15.3	X	270.77999	332.39773	181.93955	13.10725	0.1372896	0.17913921	3.1165609	21	12 11.8	19.7
329225 2012 EU_{2}	17.4	X	238.53436	287.41014	163.18263	5.17201	0.1846497	0.26541122	2.3980406	21	8 14.1	20.7
329226 2012 EK_{3}	16.9	X	106.85667	148.73121	330.81141	3.95845	0.0637305	0.22822555	2.6519167	21	4 26.9	20.4
329227 2012 EL_{3}	16.2	X	100.63770	104.96785	4.74069	9.79929	0.0876503	0.22461204	2.6802833	21	4 9.6	19.7
329228 2012 EM_{3}	17.8	X	221.91892	15.97534	185.48477	2.39411	0.1423126	0.28392793	2.2926124	21	12 29.2	20.7
329229 2012 EJ_{4}	17.3	X	182.95911	58.24321	133.86583	1.99076	0.1159854	0.26713337	2.3877231	21	11 3.9	20.6
329230 2012 EN_{4}	16.0	X	230.16949	173.71875	101.24738	3.30407	0.0258166	0.20277432	2.8694197	21	1 8.9	20.0
329231 2012 EZ_{5}	17.3	X	347.06110	266.12328	13.43181	7.70439	0.1567931	0.23304324	2.6152409	21	5 30.8	20.0
329232 2012 EW_{6}	17.5	X	171.30112	151.27087	13.33335	6.55435	0.0903472	0.26013414	2.4303630	21	9 17.6	20.9
329233 2012 EE_{11}	15.9	X	5.73894	241.49928	167.37669	9.91294	0.0786478	0.17789810	3.1310392	21	12 22.8	20.1
329234 2012 ET_{11}	17.1	X	276.91441	272.97367	50.58836	3.16012	0.0712833	0.22934846	2.6432536	21	4 27.4	20.5
329235 2012 EQ_{12}	16.0	X	172.78862	8.02603	230.85054	4.47895	0.1467009	0.17208282	3.2011869	21	12 5.8	21.1
329236 2012 FH_{10}	16.2	X	95.19336	70.49571	113.77065	14.56699	0.0496262	0.23825611	2.5769541	21	7 8.0	19.5
329237 2012 FG_{14}	16.0	X	9.86791	238.81666	51.01190	15.59573	0.0998848	0.24259822	2.5461128	21	8 9.9	19.2
329238 2012 FZ_{22}	16.4	X	188.19675	110.83364	137.53383	2.19059	0.1377206	0.17649657	3.1475927	21	12 30.9	21.5
329239 2012 FL_{36}	16.8	X	225.72498	289.91524	4.82379	1.65728	0.0521552	0.20564167	2.8426843	21	1 26.9	20.8
329240 2012 FZ_{36}	16.7	X	188.47654	343.41347	237.60666	5.97077	0.0651814	0.27960990	2.3161553	21	12 23.2	19.6
329241 2012 FT_{56}	14.8	X	98.30042	330.65225	173.74835	12.93347	0.0272455	0.12550677	3.9508568	21	5 23.6	20.5
329242 4564 $T-2$	17.6	X	69.04279	306.73440	43.15669	2.12690	0.1993793	0.27161851	2.3613651	21	—	—
329243 4063 $T-3$	16.7	X	142.88367	229.13503	168.53864	8.21395	0.2298663	0.21270897	2.7793646	21	3 18.1	21.0
329244 1992 UA	18.4	X	178.05940	196.54973	28.47879	7.77664	0.1225664	0.37984994	1.8882580	21	12 31.4	20.6
329245 1995 FP_{1}	17.8	X	265.71618	180.76044	23.84063	4.78293	0.1506487	0.29255644	2.2473098	21	—	—
329246 1995 FN_{14}	17.4	X	168.89105	24.76012	50.02205	4.98738	0.0221155	0.23099882	2.6306488	21	5 13.2	21.0
329247 1995 OY_{9}	16.8	X	275.19275	261.01627	303.09658	21.33043	0.1889134	0.28555893	2.2838744	21	—	—
329248 1995 QQ_{6}	17.7	X	229.88649	43.98804	332.78574	5.56604	0.2352449	0.29280114	2.2460575	21	4 23.6	21.5
329249 1995 US_{9}	16.1	X	35.90168	310.25990	8.29238	14.86244	0.1097855	0.22914134	2.6448462	21	10 21.7	19.5
329250 1995 UL_{36}	17.3	X	169.45242	133.81451	138.52840	3.89966	0.1099102	0.27507018	2.3415695	21	—	—
329251 1995 UU_{59}	17.4	X	280.90408	269.67324	207.57489	6.73778	0.1070968	0.23024459	2.6363906	21	11 24.1	20.5
329252 1995 VQ_{10}	17.9	X	150.08553	162.09722	150.92604	3.02725	0.2501266	0.27876419	2.3208375	21	—	—
329253 1996 MU	16.8	X	256.34203	204.99007	92.69458	26.35643	0.1835519	0.30689476	2.1767559	21	2 14.0	20.6
329254 1996 XB_{30}	17.7	X	299.73208	332.95228	76.77232	2.48111	0.1816692	0.27258759	2.3557652	21	9 18.1	19.7
329255 1997 TN_{1}	15.8	X	59.89137	158.41721	209.86394	9.97060	0.1283536	0.17206497	3.2014084	21	—	—
329256 1997 WZ_{10}	15.5	X	131.51363	129.04774	228.78343	6.58444	0.1456651	0.17812093	3.1284274	21	1 13.4	20.2
329257 1998 KC	15.8	X	82.58643	108.06733	67.74274	23.18297	0.2651841	0.26240604	2.4163147	21	7 12.6	19.4
329258 1998 RN_{10}	16.6	X	91.65034	237.08903	167.62894	4.15019	0.0559316	0.18942727	3.0026708	21	1 8.3	20.6
329259 1998 RW_{14}	17.9	X	115.93659	312.09342	8.39858	3.01384	0.1988510	0.26967332	2.3727067	21	—	—
329260 1998 SY_{40}	17.7	X	87.01061	137.97554	195.20175	2.70040	0.1944632	0.26796278	2.3827935	21	—	—
329261 1998 SW_{123}	17.2	X	57.57755	197.98931	175.05838	2.85202	0.3025069	0.26668391	2.3904051	21	—	—
329262 1998 UF_{1}	16.1	X	94.33332	151.48423	260.85730	24.14022	0.2092358	0.27410798	2.3470460	21	1 15.7	18.8
329263 1998 VB_{50}	16.3	X	50.22757	136.08706	227.59669	9.84462	0.2033430	0.26367092	2.4085808	21	—	—
329264 1999 CL_{123}	16.0	X	237.80940	36.59292	39.75899	13.14151	0.2141267	0.24391428	2.5369460	21	7 26.1	20.2
329265 1999 QZ	18.1	X	293.13210	98.08937	299.32403	0.57612	0.2027257	0.26709260	2.3879660	21	8 11.1	20.6
329266 1999 RK_{131}	17.1	X	253.64703	76.64597	333.01078	1.66583	0.0726761	0.21919988	2.7242221	21	7 22.2	20.9
329267 1999 RQ_{153}	17.4	X	134.79503	152.88213	218.02252	5.04901	0.1883052	0.29008688	2.2600462	21	1 17.3	20.2
329268 1999 RC_{235}	17.7	X	119.22014	303.10545	57.71965	4.47510	0.2378762	0.28655719	2.2785672	21	—	—
329269 1999 SQ_{14}	15.8	X	278.64767	94.64033	254.38412	13.45221	0.3276004	0.21643508	2.7473730	21	4 27.5	20.3
329270 1999 TH_{33}	17.9	X	155.76585	136.00709	206.38469	3.30849	0.2563702	0.28907397	2.2653226	21	1 13.1	21.3
329271 1999 TH_{125}	16.6	X	219.28863	162.34074	217.05287	7.17571	0.2308591	0.20979876	2.8050080	21	4 25.5	21.5
329272 1999 TP_{178}	17.4	X	76.99452	156.47690	225.15550	5.59933	0.1444409	0.28165817	2.3049127	21	—	—
329273 1999 TZ_{221}	17.9	X	110.04525	186.27249	178.11179	4.44870	0.2466361	0.28516543	2.2859750	21	—	—
329274 1999 TO_{256}	16.8	X	263.02928	159.83228	182.59072	3.48947	0.2111239	0.21260711	2.7802522	21	4 20.3	21.1
329275 1999 VP_{6}	19.9	X	168.86214	108.89639	227.10126	12.81829	0.3046281	0.60886782	1.3786500	21	—	—
329276 1999 VF_{40}	16.6	X	255.63528	293.10493	45.60356	21.11884	0.3726436	0.21003456	2.8029082	21	4 5.1	21.9
329277 1999 VR_{46}	16.9	X	131.54661	303.29018	45.19108	23.63018	0.2026709	0.28436846	2.2902441	21	—	—
329278 1999 VA_{107}	17.4	X	17.47354	356.08188	56.42957	11.83007	0.1285428	0.27510968	2.3413453	21	—	—
329279 1999 VD_{117}	15.9	X	327.04352	261.93760	222.35993	12.94304	0.2518348	0.18479385	3.0526548	21	—	—
329280 1999 VD_{141}	16.4	X	205.68940	318.66972	41.96886	13.31858	0.1368218	0.20440654	2.8541241	21	3 30.1	21.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
329281 1999 VQ_{172}	15.5	X	235.74228	284.01306	62.55946	14.16511	0.2501220	0.20513016	2.8474080	21	4 5.5	20.6
329282 1999 WZ_{5}	16.1	X	65.60681	295.82170	103.37812	27.54430	0.3404329	0.28063506	2.3105113	21	—	—
329283 1999 XQ_{261}	17.1	X	59.14569	160.97931	236.77862	9.92970	0.1343387	0.27861179	2.3216837	21	—	—
329284 2000 CM_{106}	17.8	X	146.53025	115.62272	116.86492	2.06949	0.1486003	0.26012328	2.4304307	21	11 16.6	21.6
329285 2000 CU_{106}	17.5	X	151.28400	117.14489	134.82708	1.57559	0.1810370	0.26209054	2.4182535	21	12 13.8	21.3
329286 2000 DA_{67}	15.8	X	357.96384	310.50496	164.05538	16.65420	0.1531230	0.18007196	3.1057893	21	—	—
329287 2000 DJ_{91}	16.0	X	233.22802	65.91735	166.62464	7.66573	0.1261251	0.17548011	3.1597359	21	—	—
329288 2000 ES_{2}	16.6	X	279.25760	108.04422	336.76533	5.83512	0.0921397	0.25783133	2.4448127	21	10 11.9	19.6
329289 2000 FR_{4}	15.8	X	118.13567	30.97047	13.48572	9.97180	0.0310958	0.18157217	3.0886582	21	2 12.2	20.3
329290 2000 HT_{3}	15.7	X	226.83964	66.35261	203.93479	15.46363	0.1826471	0.17439951	3.1727745	21	—	—
329291 2000 JB_{6}	19.1	X	277.92807	175.65503	110.64309	10.64227	0.3452694	0.41289227	1.7861238	21	1 22.7	22.0
329292 2000 LK_{16}	15.1	X	47.30609	68.60601	253.63533	11.61635	0.3345194	0.24244110	2.5472128	21	12 18.0	18.9
329293 2000 NF_{19}	16.3	X	357.79669	17.61542	319.52619	3.76811	0.2974986	0.23685690	2.5870929	21	10 6.4	17.9
329294 2000 QP_{36}	16.3	X	346.71780	196.55727	160.01712	5.80254	0.2618999	0.23696400	2.5863133	21	10 6.9	17.9
329295 2000 QQ_{184}	16.7	X	323.68830	261.15187	109.92858	5.00137	0.2991105	0.23446207	2.6046796	21	8 16.4	18.4
329296 2000 QF_{199}	16.5	X	306.91582	208.97613	157.52579	6.31490	0.2121506	0.23211770	2.6221883	21	7 16.0	19.3
329297 2000 QW_{213}	17.0	X	341.87347	326.69357	16.02244	4.01222	0.2536758	0.23393880	2.6085623	21	8 27.5	18.6
329298 2000 RM	17.1	X	302.29279	144.85333	212.63753	13.23698	0.2860095	0.23086193	2.6316886	21	6 12.7	20.5
329299 2000 RB_{37}	16.0	X	278.41889	204.32261	176.64745	31.31732	0.1065123	0.22940511	2.6428184	21	7 9.7	20.3
329300 2000 RR_{57}	16.5	X	122.91672	228.34620	204.71034	9.17378	0.2105322	0.21161487	2.7889363	21	4 8.5	20.6
329301 2000 RM_{77}	15.5	X	353.56134	290.41449	44.90753	29.63586	0.3785918	0.23192153	2.6236667	21	10 18.7	17.2
329302 2000 RF_{82}	16.0	X	278.13574	147.10064	218.49039	11.46317	0.2012952	0.22748851	2.6576416	21	6 5.3	19.8
329303 2000 RW_{90}	16.2	X	75.05468	85.49637	216.47419	10.44808	0.2903583	0.24215901	2.5491905	21	12 13.8	20.5
329304 2000 RB_{100}	15.9	X	74.63489	53.48487	258.29668	13.38722	0.1856595	0.24301827	2.5431780	21	12 15.6	19.6
329305 2000 SY_{16}	16.3	X	6.44174	111.15537	210.82736	11.67692	0.1897185	0.23440263	2.6051200	21	9 17.9	18.9
329306 2000 SJ_{19}	16.1	X	268.56780	139.23574	239.69562	11.97976	0.1205524	0.22632274	2.6667599	21	6 21.9	19.9
329307 2000 SM_{31}	17.2	X	303.73755	148.72779	195.19232	2.09152	0.2185288	0.22877895	2.6476384	21	6 7.9	20.3
329308 2000 SW_{37}	16.5	X	14.84133	261.99659	62.52050	5.16379	0.2706118	0.23617659	2.5920586	21	10 27.4	18.8
329309 2000 SR_{57}	16.8	X	15.04956	316.42798	8.49732	3.19761	0.2633629	0.23652734	2.5894954	21	10 25.0	19.1
329310 2000 SF_{68}	15.8	X	326.98634	310.92962	28.11372	13.08201	0.1901029	0.23007963	2.6376506	21	7 22.7	18.7
329311 2000 SW_{89}	15.4	X	277.99151	153.75191	242.76722	15.81746	0.1890369	0.23138589	2.6277142	21	7 14.4	19.3
329312 2000 SA_{130}	15.5	X	268.88568	149.90431	235.62012	11.50895	0.2719973	0.22776758	2.6554703	21	6 11.3	19.6
329313 2000 SG_{183}	17.6	X	41.74804	214.47095	161.93729	2.77688	0.2278473	0.29189073	2.2507254	21	—	—
329314 2000 SV_{204}	17.1	X	7.08983	155.86342	173.54048	4.46418	0.3030419	0.23540921	2.5976886	21	10 23.4	19.0
329315 2000 SZ_{224}	16.7	X	289.68233	318.23906	10.59330	9.14722	0.2167287	0.22437133	2.6821999	21	4 27.1	20.4
329316 2000 SL_{253}	16.6	X	357.59899	226.32626	97.75903	4.94655	0.2300803	0.23359806	2.6110983	21	9 10.5	18.6
329317 2000 SY_{258}	16.8	X	61.05693	117.12499	233.38350	2.74666	0.2451102	0.24302183	2.5431532	21	—	—
329318 2000 SA_{313}	15.7	X	343.33535	88.95778	253.48401	11.19831	0.2822689	0.23281462	2.6169528	21	8 20.4	17.7
329319 2000 SL_{315}	15.9	X	261.26888	139.92940	243.11623	13.83578	0.1506824	0.22513916	2.6760981	21	6 14.7	19.9
329320 2000 SJ_{355}	16.0	X	220.82094	343.11577	49.65299	14.69290	0.2032389	0.22110292	2.7085679	21	5 13.2	20.6
329321 2000 TY_{31}	17.1	X	16.99536	232.83700	86.90782	4.20751	0.2046743	0.23536315	2.5980275	21	10 14.3	19.7
329322 2000 TQ_{38}	16.3	X	317.05426	287.20068	60.61322	6.37520	0.3517675	0.23154317	2.6265242	21	6 11.1	19.0
329323 2000 UW_{67}	16.3	X	298.41511	123.52333	232.19012	12.41151	0.1558242	0.22606518	2.6687851	21	6 25.4	19.7
329324 2000 UB_{73}	15.9	X	317.42893	104.90952	238.30772	10.89566	0.1848459	0.22671286	2.6636998	21	7 4.3	19.0
329325 2000 UU_{106}	16.1	X	264.62835	316.35642	68.79260	13.41779	0.1802233	0.22457592	2.6805707	21	6 17.2	19.9
329326 2000 VB_{14}	17.7	X	177.17683	130.16652	218.79550	5.32704	0.2163684	0.30445186	2.1883845	21	2 2.9	21.2
329327 2000 VR_{55}	16.2	X	186.57941	154.63064	256.23278	12.60354	0.1474980	0.21524475	2.7574924	21	5 5.2	20.8
329328 2000 WH_{30}	16.1	X	197.84830	316.42810	74.54949	15.35880	0.1605678	0.21524053	2.7575286	21	4 28.2	20.8
329329 2000 WW_{37}	16.2	X	296.33279	126.81319	221.42216	12.68043	0.2560103	0.22428465	2.6828909	21	5 28.3	19.7
329330 2000 WD_{51}	17.5	X	338.28957	12.80381	79.88731	26.58233	0.1382939	0.38208687	1.8808809	21	—	—
329331 2000 WH_{67}	18.1	X	67.40907	317.34813	72.73419	23.15074	0.0919556	0.38789247	1.8620664	21	—	—
329332 2000 YZ_{128}	16.1	X	88.16416	352.16642	96.58578	9.66209	0.1828343	0.20135968	2.8828433	21	3 20.9	20.0
329333 2001 CF_{46}	15.2	X	335.86930	4.92140	115.10327	25.08174	0.1864820	0.18604347	3.0389701	21	—	—
329334 2001 FS_{96}	17.3	X	276.61044	49.72569	94.55426	5.13304	0.2241347	0.27691722	2.3311456	21	12 20.1	19.2
329335 2001 FR_{136}	15.6	X	286.70665	94.85358	93.55661	11.47866	0.2355647	0.18371104	3.0646382	21	—	—
329336 2001 FT_{216}	17.9	X	200.01087	156.78515	342.93371	0.95844	0.1251792	0.26518883	2.3993811	21	9 13.2	21.1
329337 2001 HA_{26}	17.9	X	200.05653	122.06322	99.58271	1.66269	0.1631344	0.27193832	2.3595134	21	12 24.9	21.1
329338 2001 JW_{2}	19.0	X	352.14830	87.91225	247.24386	9.58688	0.4886544	0.44539690	1.6981313	21	—	—
329339 2001 JP_{4}	15.4	X	217.64864	193.67613	82.43257	21.00705	0.1808578	0.18033903	3.1027223	21	—	—
329340 2001 LM_{5}	19.3	X	340.62787	255.94987	270.17699	12.54700	0.0346388	0.72110537	1.2316016	21	—	—
329341 2001 OU_{53}	16.4	X	42.30827	250.42358	83.31480	10.77994	0.1392423	0.25348830	2.4726583	21	12 3.2	19.4
329342 2001 OL_{100}	17.5	X	80.96612	221.84544	116.16609	4.36376	0.3339294	0.26023066	2.4297620	21	—	—
329343 2001 QG_{96}	19.7	X	308.57493	192.61429	170.48206	23.49550	0.2688650	0.44150184	1.7081043	21	7 3.6	21.4
329344 2001 QW_{152}	15.6	X	157.44517	243.24814	151.68106	11.07611	0.0883464	0.17793717	3.1305809	21	3 22.4	20.3
329345 2001 QW_{266}	16.2	X	285.56940	170.00802	164.19677	14.69284	0.2713639	0.23844014	2.5756280	21	4 27.1	20.2
329346 2001 QW_{292}	16.2	X	42.52417	118.11934	226.85045	14.14011	0.1733940	0.20439131	2.8542659	21	12 12.0	20.1
329347 2001 RY_{21}	16.3	X	173.25904	205.95687	167.88009	9.42331	0.2919138	0.22521885	2.6754667	21	3 16.6	21.2
329348 2001 RY_{30}	17.2	X	218.39444	202.61968	161.93124	2.25282	0.1695757	0.23125188	2.6287293	21	4 8.0	21.3
329349 2001 RK_{116}	15.9	X	58.30286	313.09748	6.03705	6.84456	0.1250492	0.15384496	3.4494289	21	11 12.8	20.7
329350 2001 SF_{6}	16.9	X	192.79096	231.24728	241.05312	1.29516	0.1116466	0.24099339	2.5574037	21	7 30.5	20.7
329351 2001 SS_{116}	16.3	X	32.71680	169.47341	249.09000	5.77142	0.1269214	0.26142072	2.4223824	21	—	—
329352 2001 SN_{160}	17.4	X	325.60682	166.78957	205.66686	8.40043	0.2372215	0.24458840	2.5322824	21	8 29.9	19.5
329353 2001 SW_{173}	16.6	X	323.00745	335.25144	27.47348	16.46987	0.1614137	0.24289139	2.5440636	21	8 30.8	19.5
329354 2001 SR_{220}	15.8	X	159.54841	227.71572	160.52183	5.33414	0.1631877	0.17440693	3.1726845	21	3 20.7	20.8
329355 2001 SZ_{221}	17.1	X	191.66488	281.00446	142.91177	3.97664	0.2563428	0.23090887	2.6313319	21	5 27.7	21.7
329356 2001 SO_{259}	17.7	X	47.02127	277.13611	65.72206	2.85827	0.2055360	0.25448516	2.4661969	21	12 29.7	21.1
329357 2001 SC_{261}	15.7	X	190.79370	208.22737	243.33644	16.75905	0.1357839	0.23128573	2.6284728	21	6 28.9	20.0
329358 2001 SG_{338}	17.2	X	264.99076	28.30076	355.87851	3.90870	0.0597358	0.23818854	2.5774414	21	7 4.8	20.7
329359 2001 TT_{55}	16.2	X	185.52868	99.28536	223.23592	7.41340	0.2826952	0.17047754	3.2212513	21	1 27.9	22.0
329360 2001 TA_{111}	15.8	X	185.19657	108.68518	223.62719	12.48370	0.2896011	0.17119775	3.2122106	21	2 5.6	21.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
329361 2001 TG_{119}	15.9	X	24.89499	24.40442	264.39874	13.87744	0.0827010	0.24137841	2.5546835	21	8 18.2	19.2
329362 2001 TF_{156}	17.1	X	252.12736	213.63894	193.22343	12.42825	0.1675569	0.23802045	2.5786548	21	7 2.5	21.2
329363 2001 TQ_{180}	15.1	X	150.01495	76.13222	233.00188	12.40813	0.2703847	0.16310326	3.3176275	21	—	—
329364 2001 UT_{38}	17.4	X	135.27692	173.67421	203.70882	1.76841	0.2448469	0.21809561	2.7334099	21	2 14.7	21.7
329365 2001 UA_{107}	17.2	X	347.83097	295.60427	51.34726	3.19473	0.2243230	0.24385412	2.5373633	21	9 23.1	18.9
329366 2001 UZ_{135}	16.4	X	358.58969	284.41741	53.85945	10.49726	0.1094060	0.24271468	2.5452983	21	9 30.1	19.3
329367 2001 UB_{138}	17.3	X	215.25694	242.79030	170.62235	4.67686	0.1762087	0.23244034	2.6197613	21	6 4.9	21.7
329368 2001 UL_{155}	15.9	X	166.04929	33.72085	54.73870	22.71862	0.0344698	0.22891652	2.6465775	21	5 26.5	19.6
329369 2001 UO_{166}	16.9	X	354.92776	252.03652	49.11508	4.89623	0.0551427	0.23878374	2.5731566	21	7 24.7	20.0
329370 2001 UY_{190}	15.3	X	45.05928	136.34519	217.13210	8.74703	0.0766412	0.15402863	3.4466862	21	12 2.9	20.1
329371 2001 UJ_{229}	17.0	X	285.39609	271.96635	117.77535	6.29456	0.1169261	0.24053395	2.5606592	21	8 1.2	20.2
329372 2001 VR_{70}	16.3	X	327.28570	307.39041	66.22425	6.36080	0.1398913	0.24069716	2.5595016	21	9 20.7	18.9
329373 2001 VC_{79}	16.4	X	197.13006	178.82411	229.62408	7.33340	0.1696946	0.22792947	2.6542128	21	5 12.9	20.8
329374 2001 WK_{5}	16.4	X	121.64053	94.48037	244.61152	7.51499	0.3450437	0.26048545	2.4281774	21	—	—
329375 2001 WV_{9}	16.2	X	358.72343	269.83239	90.50014	12.66919	0.1976628	0.24451176	2.5328116	21	11 10.6	18.7
329376 2001 WA_{48}	16.4	X	351.76614	283.81644	79.92182	15.29372	0.1307962	0.24446383	2.5331426	21	10 28.5	19.3
329377 2001 WP_{72}	17.1	X	344.49052	277.74293	72.76067	4.29613	0.2493726	0.24342795	2.5403239	21	9 21.7	18.8
329378 2001 WT_{72}	16.6	X	288.64523	297.75934	61.38355	12.46705	0.0993177	0.23500589	2.6006599	21	6 25.5	20.0
329379 2001 WK_{74}	16.9	X	247.00514	332.15934	73.52306	5.18734	0.0552687	0.23481182	2.6020926	21	7 11.0	20.4
329380 2001 WN_{88}	16.7	X	252.68479	340.77792	57.05850	18.89510	0.2029202	0.23390561	2.6088091	21	6 16.3	20.8
329381 2001 WJ_{91}	16.1	X	301.93170	334.18924	46.91416	13.70615	0.1910706	0.23858401	2.5745925	21	8 8.9	19.3
329382 2001 XH_{39}	16.3	X	195.01167	3.76241	55.67742	14.27942	0.2773526	0.22716334	2.6601771	21	5 23.2	21.1
329383 2001 XO_{79}	17.2	X	306.60008	292.77844	79.69782	13.53899	0.1990257	0.23858036	2.5746187	21	7 30.4	20.1
329384 2001 XZ_{111}	16.3	X	256.29274	169.62302	228.61492	11.60138	0.1143894	0.23239446	2.6201061	21	7 2.4	20.2
329385 2001 XA_{119}	16.7	X	149.22304	343.97280	79.75591	10.63425	0.2865489	0.21944466	2.7221958	21	4 30.1	21.5
329386 2001 XG_{126}	16.8	X	253.15078	333.27025	70.98336	7.52278	0.1085235	0.23414633	2.6070207	21	7 9.7	20.4
329387 2001 XS_{150}	16.6	X	226.29675	321.09658	87.11198	14.67438	0.2398514	0.23040886	2.6351374	21	6 5.2	21.0
329388 2001 XW_{155}	16.1	X	308.80185	142.45191	233.52392	3.98148	0.1251056	0.23645707	2.5900084	21	8 15.4	19.0
329389 2001 XJ_{187}	16.0	X	84.61662	199.30890	271.34129	14.69815	0.1116324	0.21462434	2.7628039	21	3 18.1	19.9
329390 2001 YP_{2}	19.2	X	353.08194	288.66549	92.64984	27.94353	0.4797446	0.34811019	2.0013585	21	—	—
329391 2001 YD_{4}	16.5	X	242.59197	118.01349	9.36996	28.54763	0.2302619	0.28564815	2.2833988	21	10 3.4	19.3
329392 2001 YJ_{11}	16.7	X	180.15710	292.53962	123.06905	5.06149	0.2979176	0.22287156	2.6942193	21	5 10.9	21.6
329393 2001 YM_{17}	16.8	X	358.19190	129.08585	235.01824	4.13154	0.2326397	0.24387488	2.5372193	21	11 14.8	18.8
329394 2001 YO_{25}	16.8	X	241.04384	327.30286	69.34022	12.83941	0.1931671	0.23178592	2.6246900	21	6 5.8	20.8
329395 2002 AC	18.0	X	252.73418	132.14588	72.96250	34.74773	0.6483537	0.29122372	2.2541608	21	12 1.0	21.5
329396 2002 AT_{46}	16.4	X	309.63802	253.58179	121.89173	3.31289	0.2156018	0.23542857	2.5975461	21	8 4.3	18.7
329397 2002 AP_{55}	18.0	X	38.10419	285.78125	128.58905	3.90685	0.1694809	0.30247671	2.1979008	21	—	—
329398 2002 AB_{147}	16.7	X	315.56150	210.98736	155.91361	2.11398	0.2163306	0.23574824	2.5951975	21	8 2.4	19.3
329399 2002 AY_{161}	16.0	X	76.79941	183.54340	300.97041	7.16369	0.1707331	0.21287442	2.7779242	21	4 7.8	19.5
329400 2002 AN_{173}	16.9	X	99.66617	17.75378	114.13002	10.41813	0.1571379	0.21778621	2.7359981	21	5 23.3	20.8
329401 2002 BE_{2}	15.5	X	263.90639	281.63098	132.75158	29.37446	0.3366405	0.23432148	2.6057214	21	7 8.1	19.9
329402 2002 BM_{13}	16.5	X	101.46558	5.07215	78.73545	10.32647	0.2787261	0.21323589	2.7747840	21	4 12.9	20.6
329403 2002 CP_{17}	16.4	X	251.35051	125.77505	339.56754	4.35819	0.1432433	0.23737305	2.5833413	21	9 21.5	20.0
329404 2002 CS_{21}	16.3	X	37.48446	67.24351	128.67772	14.14538	0.1067450	0.21577413	2.7529805	21	5 12.9	19.8
329405 2002 CW_{218}	18.1	X	338.70474	31.41322	150.21885	4.33719	0.1886096	0.30431177	2.1890561	21	—	—
329406 2002 CB_{292}	16.6	X	126.44700	41.14741	60.79503	10.77524	0.1968194	0.21837525	2.7310759	21	5 17.0	20.7
329407 2002 EH_{23}	17.0	X	152.30078	285.86572	150.34712	4.37866	0.0475529	0.21440948	2.7646493	21	4 29.4	20.9
329408 2002 EM_{42}	17.3	X	310.65986	280.61620	304.21677	4.10260	0.0851184	0.30633843	2.1793905	21	1 13.9	20.0
329409 2002 ED_{95}	16.1	X	109.51125	313.26336	161.43043	17.89752	0.0846559	0.21319693	2.7751220	21	5 4.8	20.3
329410 2002 EX_{155}	17.5	X	166.48081	209.36782	174.93911	2.76589	0.2144751	0.31184596	2.1536542	21	3 10.9	20.6
329411 2002 GN_{97}	18.0	X	174.23441	290.15670	351.58008	2.32368	0.2434352	0.28907064	2.2653400	21	—	—
329412 2002 JJ_{48}	16.9	X	264.19075	222.05446	34.92788	6.82006	0.1533219	0.29799976	2.2198593	21	—	—
329413 2002 JJ_{68}	17.1	X	229.87619	67.87487	244.90378	5.74420	0.2227810	0.29959538	2.2119704	21	2 2.8	20.9
329414 2002 KH_{16}	15.7	X	242.92508	240.79446	53.17180	12.87749	0.0139314	0.19673303	2.9278660	21	2 24.2	20.1
329415 2002 LS_{9}	15.9	X	298.84992	9.05069	233.16377	15.62041	0.2387543	0.19660865	2.9291007	21	1 18.7	20.6
329416 2002 MF_{6}	16.0	X	166.53364	221.50468	125.73111	12.22411	0.1699292	0.18432160	3.0578668	21	2 6.7	20.8
329417 2002 MC_{7}	18.0	X	152.29583	99.58463	234.00910	5.34553	0.2114502	0.28496509	2.2870462	21	—	—
329418 2002 NV_{4}	16.0	X	160.88172	79.96839	272.00631	4.49036	0.1624880	0.18485892	3.0519385	21	2 4.7	21.0
329419 2002 NV_{8}	17.4	X	154.62888	141.27408	131.20908	7.62808	0.1773271	0.27993552	2.3143589	21	—	—
329420 2002 NX_{20}	17.3	X	184.72616	31.23642	269.49915	6.37428	0.2053360	0.28585321	2.2823067	21	—	—
329421 2002 NJ_{45}	15.6	X	309.13737	44.36371	278.09386	12.79322	0.1986278	0.20352525	2.8623574	21	5 20.4	19.3
329422 2002 NQ_{54}	16.2	X	234.17897	346.84217	305.36495	4.56184	0.2355786	0.18853614	3.0121249	21	1 27.8	21.3
329423 2002 NU_{60}	15.7	X	153.69968	202.10388	131.73287	11.19466	0.1108759	0.18088580	3.0964666	21	1 5.3	20.5
329424 2002 NY_{64}	16.0	X	177.96250	220.76526	90.46730	6.92728	0.1438629	0.18287402	3.0739824	21	1 4.8	21.0
329425 2002 NT_{69}	16.4	X	163.88117	334.02278	4.46108	5.22058	0.1351791	0.18327765	3.0694675	21	1 23.8	21.3
329426 2002 NH_{71}	15.7	X	184.55650	40.49111	262.41054	10.16666	0.0585386	0.18253459	3.0777920	21	—	—
329427 2002 NT_{72}	17.4	X	176.09467	156.17161	131.09970	6.85551	0.1198622	0.28409419	2.2917179	21	—	—
329428 2002 NL_{76}	16.1	X	177.04810	62.01915	236.95346	8.80158	0.0658314	0.17957563	3.1115094	21	—	—
329429 2002 NY_{76}	16.0	X	139.19834	206.10658	118.08082	19.92901	0.1302538	0.17741114	3.1367660	21	—	—
329430 2002 NM_{77}	16.6	X	154.84584	102.20627	243.10602	3.22033	0.1383670	0.18309851	3.0714693	21	1 21.2	21.4
329431 2002 NV_{77}	17.4	X	179.59208	30.98037	338.66359	3.12875	0.2368306	0.24056841	2.5604147	21	3 11.9	21.8
329432 2002 NE_{78}	17.6	X	123.17515	198.36015	152.94716	7.53624	0.1438254	0.28291272	2.2980937	21	—	—
329433 2002 NJ_{78}	16.3	X	174.48466	176.50280	133.50135	2.51768	0.0552907	0.18200948	3.0837090	21	—	—
329434 2002 OR	17.1	X	223.26038	34.05817	251.26905	6.80812	0.2386081	0.29101635	2.2552315	21	—	—
329435 2002 OM_{11}	17.2	X	88.02925	201.36850	166.26216	28.11569	0.1536015	0.38293854	1.8780911	21	—	—
329436 2002 OC_{20}	18.2	X	155.95931	102.11111	219.34270	0.36192	0.2754073	0.28349610	2.2949399	21	—	—
329437 2002 OA_{22}	19.4	X	108.46233	318.67046	174.08731	6.88369	0.2431932	1.08937308	0.9354451	21	—	—
329438 2002 PL	17.9	X	108.99016	130.99551	159.61723	2.10687	0.1921244	0.27456146	2.3444609	21	12 26.4	21.6
329439 2002 PG_{9}	15.4	X	177.53963	33.98455	277.55914	9.88691	0.1186822	0.18138228	3.0908136	21	1 3.3	20.3
329440 2002 PZ_{13}	16.3	X	186.02644	34.65710	266.71073	5.12241	0.1883816	0.18247975	3.0784086	21	1 2.4	21.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
329441 2002 PN_{19}	15.5	X	61.06993	196.45993	251.54666	2.63939	0.0645735	0.18420122	3.0591989	21	1 22.7	19.5
329442 2002 PV_{25}	17.5	X	102.43346	160.97376	203.71909	1.66903	0.2285424	0.27987810	2.3146755	21	—	—
329443 2002 PD_{26}	17.2	X	37.31805	204.89002	173.63653	2.31309	0.2288896	0.27194067	2.3594998	21	—	—
329444 2002 PC_{66}	17.8	X	190.89454	156.09846	143.87443	5.87901	0.1802249	0.28755547	2.2732906	21	—	—
329445 2002 PK_{72}	16.3	X	170.71721	124.60492	212.89348	10.47483	0.2146117	0.18281791	3.0746113	21	1 29.2	21.6
329446 2002 PO_{72}	15.5	X	210.71142	69.89958	245.92002	9.25240	0.1303901	0.18664843	3.0324000	21	2 3.7	20.6
329447 2002 PP_{104}	17.6	X	135.75336	112.70426	232.34565	5.44272	0.2553140	0.28214646	2.3022526	21	—	—
329448 2002 PG_{106}	15.4	X	227.86443	30.85167	255.23233	8.15056	0.1111405	0.18460326	3.0547557	21	1 18.5	20.2
329449 2002 PA_{115}	15.5	X	181.15240	174.84592	155.15756	17.34798	0.1807907	0.18224778	3.0810202	21	1 29.5	20.7
329450 2002 PY_{115}	15.2	X	40.82695	187.97180	212.67537	16.63281	0.2024600	0.16861111	3.2449793	21	—	—
329451 2002 PT_{151}	17.5	X	121.35752	12.13209	339.01162	4.30021	0.1926928	0.28173790	2.3044778	21	—	—
329452 2002 PP_{167}	15.7	X	149.02594	60.17946	263.95360	10.06653	0.0688288	0.17851534	3.1238178	21	—	—
329453 2002 PT_{167}	16.5	X	144.51607	230.49515	117.49220	2.21400	0.1828517	0.17928930	3.1148213	21	1 20.0	21.3
329454 2002 PF_{175}	16.2	X	182.43912	310.72498	25.22392	4.63531	0.2528973	0.18393839	3.0621124	21	2 11.4	21.6
329455 2002 PR_{176}	15.9	X	149.80681	248.40365	103.20103	10.90752	0.0920459	0.18274564	3.0754219	21	1 20.3	20.4
329456 2002 PB_{188}	16.0	X	208.01981	125.72805	124.35166	13.02297	0.0856430	0.17866943	3.1220215	21	—	—
329457 2002 PE_{191}	17.6	X	78.31920	318.37458	333.14930	9.12087	0.1285270	0.26946972	2.3739017	21	11 19.4	21.1
329458 2002 PM_{193}	16.2	X	238.67092	125.58143	144.91753	11.41525	0.1159429	0.18568171	3.0429161	21	1 11.4	21.1
329459 2002 PF_{196}	17.1	X	111.06836	316.57433	41.86356	7.46686	0.1402867	0.28009824	2.3134625	21	—	—
329460 2002 PK_{198}	15.4	X	270.34488	272.62137	285.38410	9.88040	0.0496848	0.17941773	3.1133346	21	—	—
329461 2002 PN_{199}	18.1	X	69.61341	148.96342	141.54557	3.98328	0.1492874	0.26858272	2.3791254	21	11 14.9	21.3
329462 2002 QA_{4}	15.9	X	65.58239	227.11355	145.55820	11.61711	0.1560623	0.17063624	3.2192537	21	—	—
329463 2002 QO_{6}	15.2	X	142.76856	122.49720	226.95794	8.19899	0.1616704	0.17786208	3.1314619	21	1 16.3	20.1
329464 2002 QK_{12}	15.8	X	81.52953	197.75327	172.98282	9.45249	0.0711937	0.17398158	3.1778535	21	—	—
329465 2002 QH_{19}	17.9	X	102.27850	308.82206	33.80164	2.90350	0.2143900	0.27683651	2.3315987	21	—	—
329466 2002 QV_{24}	14.7	X	83.59011	133.39747	247.53934	25.00941	0.2354558	0.17247289	3.1963585	21	—	—
329467 2002 QM_{29}	15.6	X	102.27273	234.33886	130.06409	15.50924	0.1010632	0.17617059	3.1514743	21	—	—
329468 2002 QM_{30}	15.7	X	42.07245	278.65869	111.18447	6.32150	0.1391864	0.17015462	3.2253255	21	—	—
329469 2002 QM_{35}	15.9	X	209.91838	241.62018	74.98643	4.02469	0.1622166	0.18471495	3.0535241	21	2 8.7	20.9
329470 2002 QU_{38}	17.3	X	22.02352	244.57625	142.15344	1.01049	0.2671705	0.26784623	2.3834847	21	—	—
329471 2002 QL_{48}	17.9	X	177.80433	311.79128	332.41179	2.77239	0.0972276	0.28226750	2.3015944	21	—	—
329472 2002 QA_{51}	15.8	X	43.43795	212.99662	191.98883	5.78929	0.0960156	0.17155708	3.2077237	21	—	—
329473 2002 QN_{62}	17.7	X	292.45749	73.62074	291.39692	1.10085	0.2118232	0.25484826	2.4638538	21	6 20.9	20.7
329474 2002 QX_{68}	17.9	X	177.71155	129.39112	147.93143	7.47625	0.1158896	0.28043670	2.3116007	21	—	—
329475 2002 QV_{72}	16.4	X	200.31922	303.56334	340.22032	14.94404	0.2383364	0.18119214	3.0929755	21	—	—
329476 2002 QX_{84}	15.7	X	77.62767	236.45027	176.72913	12.29385	0.0538724	0.17911753	3.1168124	21	1 2.2	20.1
329477 2002 QO_{90}	16.3	X	167.11649	235.59958	97.04527	6.28052	0.1471644	0.18012057	3.1052305	21	1 20.5	21.2
329478 2002 QH_{91}	16.4	X	198.13418	38.80463	230.68634	9.65775	0.0945549	0.17714874	3.1398628	21	—	—
329479 2002 QN_{91}	15.4	X	100.29730	276.58856	80.43843	6.59582	0.1293907	0.17307097	3.1889905	21	—	—
329480 2002 QP_{94}	17.8	X	119.65658	104.64101	233.01845	5.85269	0.1367605	0.27909917	2.3189801	21	—	—
329481 2002 QD_{96}	15.8	X	248.28728	121.13648	119.34042	10.84074	0.0906329	0.18225007	3.0809944	21	—	—
329482 2002 QC_{102}	16.2	X	109.90568	233.40081	119.37005	2.16526	0.1615193	0.17484966	3.1673266	21	—	—
329483 2002 QP_{108}	15.9	X	351.57651	326.12729	144.75708	12.36270	0.0397285	0.17672181	3.1449177	21	—	—
329484 2002 QY_{108}	16.3	X	150.88486	90.66820	253.98668	1.13610	0.0778217	0.18118305	3.0930790	21	1 11.5	20.8
329485 2002 QD_{113}	17.5	X	134.50186	352.42578	315.08687	4.96538	0.2056691	0.27754260	2.3276425	21	—	—
329486 2002 QR_{113}	15.8	X	240.52422	343.42146	256.25591	8.94092	0.1848473	0.18059478	3.0997923	21	—	—
329487 2002 QY_{114}	16.0	X	109.52166	142.57313	212.50655	4.40429	0.1306020	0.17508881	3.1644419	21	—	—
329488 2002 QJ_{115}	16.0	X	205.08715	163.90461	117.91843	6.57631	0.1375274	0.18015366	3.1048502	21	—	—
329489 2002 QT_{116}	17.6	X	287.35975	19.10554	342.40929	7.52138	0.1376563	0.25395622	2.4696200	21	6 21.2	20.8
329490 2002 QS_{117}	15.5	X	133.70347	211.31706	157.87249	17.70457	0.1251121	0.18121480	3.0927176	21	1 26.1	20.2
329491 2002 QQ_{132}	16.0	X	30.68297	311.83660	123.23395	8.13792	0.1153108	0.17601156	3.1533724	21	—	—
329492 2002 QQ_{140}	15.2	X	260.32074	0.16735	213.64964	10.23391	0.0824921	0.17754546	3.1351837	21	—	—
329493 2002 QG_{145}	15.9	X	110.16938	284.18004	78.11397	11.06126	0.2270155	0.17515500	3.1636446	21	1 7.9	20.4
329494 2002 RO_{9}	16.1	X	136.21524	272.52175	73.44792	2.23260	0.1702807	0.17750501	3.1356601	21	1 8.9	20.8
329495 2002 RS_{39}	15.3	X	119.40503	212.44457	159.07494	25.11960	0.2004266	0.17795961	3.1303177	21	1 23.6	20.2
329496 2002 RW_{72}	17.5	X	108.23892	1.31739	331.04776	3.40338	0.2136904	0.27653655	2.3332844	21	—	—
329497 2002 RZ_{103}	16.1	X	206.79746	132.13946	187.16362	13.86235	0.3323877	0.18258822	3.0771893	21	2 5.5	22.0
329498 2002 RY_{122}	15.3	X	154.03442	222.66939	137.80885	12.55457	0.2541995	0.18032752	3.1028542	21	2 17.5	20.4
329499 2002 RL_{123}	17.0	X	136.35716	305.41635	30.31344	6.99774	0.1658722	0.28044505	2.3115548	21	—	—
329500 2002 RP_{124}	15.5	X	146.70368	214.19467	125.67629	14.03169	0.1441575	0.17764384	3.1340261	21	1 9.2	20.3
329501 2002 RA_{134}	17.1	X	100.52458	224.14589	118.22428	7.63773	0.1569148	0.27524452	2.3405806	21	—	—
329502 2002 RM_{137}	16.4	X	42.20244	241.02678	157.09170	22.57282	0.3146028	0.27015492	2.3698860	21	—	—
329503 2002 RU_{139}	15.2	X	136.38476	211.15356	133.97726	20.76068	0.1676183	0.17548293	3.1597020	21	1 8.3	20.1
329504 2002 RN_{142}	15.8	X	94.88806	168.67189	201.12937	8.71273	0.0768677	0.17334152	3.1856715	21	—	—
329505 2002 RB_{161}	16.0	X	97.90337	202.75297	175.78510	6.02790	0.1243521	0.17508803	3.1644513	21	—	—
329506 2002 RN_{162}	16.2	X	119.84408	168.30214	172.64738	11.31569	0.1057869	0.17348739	3.1838855	21	—	—
329507 2002 RC_{169}	15.4	X	164.38419	106.50661	177.61551	21.27450	0.0812343	0.17177228	3.2050440	21	—	—
329508 2002 RY_{175}	15.3	X	67.10886	209.22599	191.51300	15.77222	0.0627013	0.17366148	3.1817573	21	—	—
329509 2002 RG_{183}	14.9	X	86.35869	161.42756	225.97338	16.36979	0.2142215	0.17336221	3.1854179	21	1 3.1	19.2
329510 2002 RH_{184}	16.4	X	126.03281	118.06313	211.46220	12.18051	0.2701532	0.17287007	3.1914608	21	—	—
329511 2002 RB_{185}	15.4	X	131.93777	102.19840	253.95586	7.57089	0.1606896	0.17651907	3.1473253	21	1 13.9	20.2
329512 2002 RV_{200}	15.8	X	149.14720	252.42193	70.61799	8.81430	0.1933790	0.17564143	3.1578009	21	—	—
329513 2002 RT_{229}	17.5	X	40.77532	281.49145	91.14638	6.05127	0.2033162	0.26928423	2.3749917	21	—	—
329514 2002 RG_{238}	17.6	X	214.74222	279.70767	115.24765	2.11763	0.2358640	0.24555862	2.5256079	21	5 9.6	21.9
329515 2002 RL_{242}	15.5	X	189.21725	151.23800	157.84958	18.99283	0.1154420	0.18076038	3.0978987	21	1 10.9	20.6
329516 2002 RK_{267}	15.6	X	154.27098	240.57004	90.10346	10.38570	0.0654454	0.17659528	3.1464198	21	—	—
329517 2002 RF_{290}	16.4	X	269.60914	42.82533	238.74615	8.12080	0.0284419	0.18851490	3.0123511	21	3 2.3	20.8
329518 2002 RL_{291}	17.3	X	69.46738	329.78239	44.87254	7.83561	0.1468556	0.27551744	2.3390346	21	—	—
329519 2002 RW_{291}	16.6	X	71.94455	324.52826	55.46648	8.44272	0.1920268	0.27672402	2.3322305	21	—	—
329520 2002 SV	19.8	X	129.00288	327.00792	352.63397	16.77619	0.2366176	0.59338754	1.4025244	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
329521 2002 SS_{17}	16.4	X	213.89349	111.46185	188.92890	10.21299	0.3461153	0.18289294	3.0737703	21	1 20.7	22.3
329522 2002 SR_{25}	17.3	X	135.40967	304.52198	28.00310	8.24182	0.2419085	0.27902686	2.3193807	21	—	—
329523 2002 SK_{47}	17.9	X	141.05968	308.31829	16.81899	2.17907	0.2619672	0.27993493	2.3143621	21	—	—
329524 2002 TT_{6}	16.9	X	30.61213	2.24283	17.38296	6.95328	0.1126036	0.26791163	2.3830968	21	—	—
329525 2002 TW_{7}	17.3	X	355.55175	203.77435	185.63767	4.85994	0.1999114	0.26398754	2.4066546	21	12 18.9	19.6
329526 2002 TU_{10}	18.0	X	355.45509	217.84078	191.20812	20.69234	0.1120415	0.37125920	1.9172757	21	—	—
329527 2002 TK_{12}	16.8	X	36.33640	344.55522	46.57722	7.09600	0.1001521	0.27070838	2.3666548	21	—	—
329528 2002 TK_{18}	17.6	X	328.28560	211.26386	191.63985	4.92617	0.2272630	0.26105911	2.4246189	21	11 8.1	19.1
329529 2002 TA_{23}	17.5	X	128.63778	158.97058	197.70815	2.00455	0.2413691	0.27990751	2.3145133	21	1 1.9	20.3
329530 2002 TM_{30}	16.9	X	6.84567	157.45230	209.36406	6.50216	0.1430954	0.26196054	2.4190535	21	11 27.9	19.4
329531 2002 TV_{35}	15.7	X	162.35758	137.58732	193.56164	7.88172	0.1876949	0.17598677	3.1536685	21	1 16.1	20.9
329532 2002 TM_{38}	15.8	X	99.95990	123.54032	245.56231	2.29062	0.2134565	0.17034787	3.2228858	21	1 2.6	20.2
329533 2002 TA_{51}	15.8	X	129.50520	140.57753	209.73412	13.79604	0.2584094	0.17217361	3.2000615	21	1 14.6	21.1
329534 2002 TM_{56}	15.8	X	118.40563	138.02571	202.04265	16.91574	0.1494760	0.17107242	3.2137794	21	—	—
329535 2002 TL_{61}	15.3	X	157.60746	20.66624	272.65213	8.34924	0.1036191	0.17095747	3.2152198	21	—	—
329536 2002 TJ_{72}	15.6	X	135.35152	115.80836	230.59330	15.13097	0.2178363	0.17423014	3.1748304	21	1 10.6	20.8
329537 2002 TW_{81}	16.0	X	139.02868	280.10158	44.66041	10.19870	0.2316224	0.17350653	3.1836514	21	—	—
329538 2002 TH_{93}	14.9	X	190.92097	19.85944	231.92563	16.31829	0.0350413	0.17019516	3.2248133	21	—	—
329539 2002 TA_{127}	15.8	X	130.06236	192.38820	149.25502	12.14765	0.2247197	0.17432429	3.1736871	21	1 3.9	20.8
329540 2002 TR_{162}	17.2	X	280.25485	252.93154	173.07178	22.92548	0.1046037	0.36102136	1.9533532	21	10 4.6	18.7
329541 2002 TV_{173}	17.0	X	26.42246	336.66055	58.54975	5.94288	0.2240330	0.26882479	2.3776970	21	—	—
329542 2002 TB_{199}	15.5	X	168.78678	59.90669	266.09889	11.14693	0.2778801	0.17612458	3.1520232	21	1 19.9	21.1
329543 2002 TO_{230}	15.7	X	105.85650	264.85233	104.56706	11.18319	0.3262582	0.17410556	3.1763446	21	1 25.1	20.4
329544 2002 TV_{241}	17.2	X	302.46752	347.17804	59.22127	22.83814	0.0811113	0.36177378	1.9506439	21	10 27.2	19.0
329545 2002 TN_{271}	16.1	X	255.54829	78.63666	223.95507	5.74351	0.3527083	0.18854914	3.0119864	21	2 15.5	21.6
329546 2002 TN_{279}	15.4	X	90.45130	139.16485	235.03628	18.43319	0.1976713	0.17032628	3.2231582	21	—	—
329547 2002 TG_{289}	14.6	X	134.24450	102.75918	249.55202	14.25599	0.2017871	0.17228520	3.1986796	21	1 15.1	19.7
329548 2002 TE_{297}	15.8	X	106.84427	178.48053	203.59033	14.71530	0.1903560	0.17328416	3.1863744	21	1 19.2	20.6
329549 2002 TG_{326}	17.5	X	177.26993	117.17384	181.98704	5.31244	0.1678218	0.28111233	2.3078954	21	—	—
329550 2002 TJ_{342}	15.9	X	221.36687	137.59272	111.88188	5.57694	0.1198321	0.17270119	3.1935410	21	—	—
329551 2002 TW_{366}	18.0	X	83.69791	260.86390	74.55187	7.15613	0.1599818	0.27036345	2.3686673	21	—	—
329552 2002 TE_{376}	17.1	X	52.50914	223.43958	140.36618	9.13997	0.2599593	0.26839821	2.3802157	21	—	—
329553 2002 TW_{377}	16.6	X	158.91900	229.24920	75.27268	2.03323	0.1545241	0.17390104	3.1788346	21	—	—
329554 2002 TB_{381}	18.4	X	111.27680	161.97113	180.72499	2.55392	0.2698105	0.27693906	2.3310231	21	—	—
329555 2002 UB_{3}	16.2	X	71.43670	297.69916	87.95850	22.76804	0.3184336	0.27302380	2.3532553	21	—	—
329556 2002 UA_{12}	16.1	X	199.62446	92.92333	257.02780	22.29305	0.2848461	0.29000453	2.2604740	21	2 17.5	20.6
329557 2002 UJ_{14}	15.4	X	187.32942	97.19428	200.43737	15.37743	0.1090989	0.17480526	3.1678629	21	—	—
329558 2002 UV_{20}	15.4	X	104.06260	129.81510	232.77525	13.92674	0.2271997	0.17008813	3.2261660	21	—	—
329559 2002 UC_{31}	16.7	X	125.16610	69.07251	267.24425	4.68593	0.1578438	0.27547084	2.3392984	21	—	—
329560 2002 UK_{61}	15.6	X	230.85965	77.36505	206.10658	15.91969	0.1730274	0.18453238	3.0555378	21	1 14.7	21.0
329561 2002 UV_{65}	15.7	X	218.02660	65.94237	188.37140	17.84657	0.1386665	0.17423934	3.1747186	21	—	—
329562 2002 UV_{71}	17.5	X	145.79008	86.37318	230.37363	8.02836	0.2491824	0.27688309	2.3313372	21	—	—
329563 2002 UM_{79}	16.8	X	146.13422	203.61688	271.41327	5.15337	0.0948704	0.24159716	2.5531412	21	6 13.2	20.5
329564 2002 VC_{14}	17.2	X	160.90977	101.82115	232.30789	20.48197	0.2667689	0.28074915	2.3098853	21	1 6.0	21.1
329565 2002 VH_{35}	17.3	X	52.96996	306.02841	63.44469	2.93830	0.1989960	0.26742640	2.3859785	21	—	—
329566 2002 VR_{41}	17.4	X	203.08228	168.74177	209.80756	1.73863	0.2552229	0.23887654	2.5724901	21	4 9.9	21.9
329567 2002 VS_{42}	17.1	X	289.71890	260.66597	150.66523	0.64799	0.2005986	0.25435112	2.4670633	21	8 25.7	19.6
329568 2002 VH_{55}	15.1	X	141.17083	278.63984	76.56372	26.42899	0.2576993	0.17451008	3.1714342	21	2 6.6	20.7
329569 2002 VP_{57}	17.3	X	119.27647	258.25087	94.60856	4.36989	0.2363569	0.27713673	2.3299145	21	—	—
329570 2002 VK_{75}	17.3	X	118.06741	286.04497	69.33354	8.39695	0.2362135	0.27633271	2.3344318	21	—	—
329571 2002 VC_{92}	18.9	X	160.08301	231.79485	243.59767	27.31654	0.2787149	0.55831485	1.4606627	21	6 29.4	21.0
329572 2002 VY_{106}	17.1	X	351.34384	134.58576	264.42231	3.93285	0.1446435	0.26191195	2.4193526	21	12 16.4	19.4
329573 2002 VQ_{131}	17.3	X	97.07965	302.93794	47.70619	3.15730	0.2124877	0.27298205	2.3534952	21	—	—
329574 2002 VH_{132}	17.4	X	342.48736	193.59787	206.81050	5.82358	0.1237261	0.26099760	2.4249998	21	11 30.4	19.8
329575 2002 VS_{138}	15.5	X	84.92959	97.91911	232.64781	7.35752	0.0680486	0.15928134	3.3704880	21	12 21.2	20.5
329576 2002 VB_{142}	17.1	X	156.27552	44.41509	269.29174	8.48328	0.2146303	0.27600423	2.3362836	21	—	—
329577 2002 VU_{142}	17.7	X	47.40789	128.54550	220.09274	20.24749	0.0894059	0.36928327	1.9241088	21	—	—
329578 2002 VS_{143}	17.6	X	62.33587	288.71533	65.96562	3.39211	0.2300533	0.26847401	2.3797676	21	—	—
329579 2002 WY_{17}	16.8	X	272.38740	281.89054	134.96800	7.40681	0.1188567	0.25093540	2.4894004	21	8 21.1	19.9
329580 2002 WW_{22}	13.1	X	244.18214	144.65144	233.96059	24.23440	0.0538736	0.08324572	5.1947117	21	6 5.1	20.2
329581 2002 XV_{43}	17.3	X	197.83970	18.44621	7.54453	3.61062	0.2599848	0.23743972	2.5828576	21	4 14.7	22.0
329582 2002 XK_{44}	16.6	X	220.89916	85.54530	341.17611	4.55959	0.1872396	0.24290174	2.5439914	21	6 26.0	20.6
329583 2002 XC_{72}	16.4	X	174.89048	99.05750	19.67995	5.40670	0.2220221	0.24216303	2.5491623	21	7 22.2	20.8
329584 2002 XD_{98}	16.6	X	166.25617	99.07363	43.22133	14.66144	0.1504498	0.24421944	2.5348323	21	8 18.8	20.9
329585 2002 XW_{107}	17.1	X	191.45688	19.59463	84.51206	19.08011	0.1825408	0.24175059	2.5520608	21	7 17.2	21.4
329586 2002 XY_{118}	17.5	X	123.37978	229.97652	91.63803	3.58680	0.2451700	0.27271109	2.3550539	21	—	—
329587 2003 AJ_{1}	16.6	X	160.79086	335.63048	161.51338	5.35747	0.1835680	0.23987759	2.5653282	21	7 30.5	20.8
329588 2003 AX_{39}	16.6	X	160.45491	241.84194	237.95904	4.07065	0.2586321	0.23711879	2.5851876	21	7 10.5	21.2
329589 2003 BO_{10}	17.3	X	112.58682	46.40756	102.90079	7.60618	0.3152591	0.23202207	2.6229088	21	7 13.7	21.7
329590 2003 BF_{19}	16.4	X	170.56626	55.87300	68.83391	7.65961	0.1178027	0.23729681	2.5838945	21	7 25.2	20.4
329591 2003 BV_{21}	17.1	X	18.70061	208.89619	143.07686	24.24861	0.0691602	0.35732654	1.9667955	21	12 11.4	19.8
329592 2003 BG_{43}	17.2	X	145.92441	337.56899	127.27156	8.09518	0.2812233	0.23427067	2.6060981	21	6 13.1	21.8
329593 2003 BG_{58}	16.4	X	153.81847	5.11497	133.21203	13.42473	0.1272217	0.23717786	2.5847583	21	7 23.9	20.5
329594 2003 BG_{76}	16.3	X	93.80511	109.22571	94.26739	13.97056	0.1325458	0.23570653	2.5955036	21	8 17.3	20.1
329595 2003 BA_{85}	16.6	X	131.23484	86.62290	63.48671	5.90087	0.1937526	0.23529131	2.5985563	21	7 22.4	20.8
329596 2003 CJ_{17}	16.9	X	232.87270	36.64968	42.57900	4.32661	0.2162159	0.24120712	2.5558928	21	7 22.1	21.0
329597 2003 CT_{25}	16.1	X	216.00662	29.10848	62.60064	14.03175	0.1476074	0.23945106	2.5683736	21	7 29.3	20.3
329598 2003 DJ_{11}	16.9	X	158.83830	307.94555	177.02000	9.91868	0.1363914	0.23662697	2.5887685	21	7 11.2	21.1
329599 2003 EQ_{37}	16.5	X	114.78833	81.07352	65.02423	12.44895	0.2101865	0.23046452	2.6347131	21	7 1.3	20.6
329600 2003 FF_{8}	16.6	X	69.40342	121.82344	206.85766	14.16874	0.1188648	0.24570915	2.5245763	21	12 23.2	20.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
329601 2003 FD_{66}	17.1	X	32.21512	88.08744	159.38112	4.08240	0.1711193	0.22930514	2.6435865	21	7 18.7	19.8
329602 2003 FS_{94}	16.3	X	60.82206	26.55842	166.60609	14.10734	0.1869319	0.22384469	2.6864052	21	6 23.5	19.8
329603 2003 FJ_{96}	16.2	X	21.67028	137.94610	76.98129	6.47641	0.1251815	0.22325924	2.6910995	21	5 8.0	19.0
329604 2003 FN_{101}	16.2	X	47.32939	46.14181	185.33448	11.78022	0.1447829	0.22932279	2.6434509	21	7 16.8	19.5
329605 2003 FZ_{121}	16.0	X	111.33368	338.16661	188.12049	32.85229	0.1430105	0.22821338	2.6520110	21	7 13.2	20.7
329606 2003 FH_{131}	16.8	X	64.02187	314.83084	249.09762	2.52689	0.1254007	0.22698874	2.6615410	21	7 3.1	20.1
329607 2003 GE_{10}	16.3	X	109.61288	8.73960	141.47201	15.63613	0.1795233	0.22758927	2.6568571	21	6 28.6	20.4
329608 2003 GD_{40}	16.3	X	92.79330	140.61092	36.52387	11.97258	0.1195594	0.22898740	2.6460314	21	7 6.7	20.1
329609 2003 GL_{42}	16.3	X	70.28964	79.81025	117.73240	13.43924	0.1672680	0.22693782	2.6619392	21	7 10.5	19.7
329610 2003 GU_{54}	17.8	X	226.87004	134.39838	35.30040	2.96607	0.1343755	0.30132403	2.2035024	21	11 27.1	20.4
329611 2003 HX_{4}	16.8	X	36.44854	61.56466	156.23077	6.71346	0.2187022	0.22243040	2.6977806	21	6 19.9	19.5
329612 2003 JR_{6}	16.1	X	350.26269	192.04400	70.49126	9.89208	0.1788437	0.21869730	2.7283941	21	5 14.1	18.9
329613 2003 JU_{16}	15.2	X	346.67242	161.59893	90.77618	36.88715	0.1208552	0.21705308	2.7421555	21	5 16.2	19.1
329614 2003 KU_{2}	17.6	X	3.91040	246.70214	105.27445	5.40243	0.6775668	0.22372598	2.6873554	21	—	—
329615 2003 LV_{1}	18.6	X	71.75040	105.24722	75.33004	34.08683	0.0525117	0.54653658	1.4815736	21	5 19.2	19.2
329616 2003 OM_{2}	17.3	X	196.59320	320.02885	335.80980	6.23789	0.2178004	0.30314879	2.1946511	21	—	—
329617 2003 OW_{8}	15.7	X	167.30188	153.94860	200.99528	10.92358	0.1452712	0.19590353	2.9361250	21	2 9.5	20.5
329618 2003 ON_{21}	17.9	X	174.73241	259.99408	36.46100	1.36782	0.1953754	0.30054808	2.2072935	21	—	—
329619 2003 OS_{22}	15.7	X	180.48765	205.44767	158.35013	8.73640	0.4516888	0.19509366	2.9442450	21	3 16.4	21.6
329620 2003 OE_{33}	15.5	X	227.90916	71.08475	247.83366	9.57301	0.1005522	0.19780656	2.9172630	21	2 21.6	20.2
329621 2003 QW_{13}	15.8	X	157.10410	315.24914	328.45842	8.22964	0.1159788	0.18389503	3.0625937	21	—	—
329622 2003 QY_{25}	16.6	X	28.07311	71.10038	253.62259	2.03275	0.2723233	0.22439474	2.6820134	21	11 15.8	19.6
329623 2003 QK_{94}	16.4	X	211.13293	313.17996	43.87650	6.73727	0.3115409	0.20010777	2.8948545	21	3 25.9	21.8
329624 2003 QS_{110}	16.0	X	262.88380	295.97579	24.47455	7.46043	0.2921608	0.20467949	2.8515862	21	3 19.6	20.8
329625 2003 QA_{113}	15.6	X	60.57911	349.39978	45.04235	22.04400	0.2496938	0.17910099	3.1170042	21	—	—
329626 2003 RR_{12}	16.3	X	300.37958	350.49659	359.53205	4.96156	0.1684212	0.21264740	2.7799010	21	6 19.9	19.8
329627 2003 RP_{24}	15.5	X	169.53146	113.25441	281.53828	8.71762	0.0773303	0.19851728	2.9102961	21	3 25.2	20.1
329628 2003 SF_{34}	15.6	X	64.49994	257.22343	178.06531	21.91609	0.0844090	0.18633910	3.0357550	21	1 11.6	20.0
329629 2003 SM_{44}	17.6	X	187.96539	141.27565	202.09385	7.47440	0.1737967	0.30407601	2.1901874	21	2 2.5	21.0
329630 2003 SC_{46}	16.2	X	137.36027	298.88306	71.61710	2.08680	0.2524455	0.18857801	3.0116790	21	2 14.5	21.1
329631 2003 SO_{51}	15.6	X	165.20457	329.56325	32.05892	10.90183	0.1142074	0.19099954	2.9861698	21	2 21.9	20.3
329632 2003 SZ_{59}	17.0	X	327.78983	346.94418	30.66958	8.26371	0.1346293	0.27471957	2.3435613	21	10 2.4	19.1
329633 2003 SD_{69}	15.7	X	85.98518	176.83007	190.50326	18.68382	0.2343258	0.17918111	3.1160750	21	—	—
329634 2003 SL_{86}	15.7	X	58.03245	173.45044	224.44186	17.05065	0.1922397	0.17838656	3.1253210	21	—	—
329635 2003 SP_{89}	15.8	X	206.61509	97.04068	245.10217	9.41903	0.1381205	0.19591651	2.9359953	21	2 28.5	20.7
329636 2003 SE_{104}	17.6	X	201.65213	238.40494	66.68181	5.57218	0.1720585	0.30236941	2.1984207	21	—	—
329637 2003 SV_{126}	16.5	X	254.27816	56.26517	236.97924	6.70093	0.2758043	0.19890729	2.9064906	21	2 7.1	21.6
329638 2003 SX_{135}	16.0	X	40.37195	203.03986	209.22914	6.95603	0.3220181	0.17903374	3.1177847	21	—	—
329639 2003 SZ_{152}	15.9	X	109.54330	253.44401	110.79539	7.06333	0.1395526	0.18347419	3.0672751	21	—	—
329640 2003 SZ_{162}	15.5	X	167.69963	167.43701	192.76494	10.20500	0.1140087	0.19002691	2.9963507	21	2 15.4	20.2
329641 2003 SV_{163}	16.2	X	142.39910	334.21667	52.09286	3.85791	0.1135966	0.19208235	2.9749368	21	2 24.7	20.7
329642 2003 SN_{171}	16.2	X	160.18850	307.50164	58.92752	5.49204	0.1838277	0.19119837	2.9840993	21	2 25.3	21.1
329643 2003 ST_{174}	16.6	X	199.63191	190.79083	173.24664	2.58483	0.2022693	0.19771342	2.9181792	21	3 24.5	21.6
329644 2003 SN_{177}	17.6	X	54.78215	248.55430	147.78268	3.39454	0.1890328	0.28883197	2.2665878	21	—	—
329645 2003 SK_{178}	17.0	X	267.87391	32.25503	255.34427	3.77840	0.1395754	0.30849886	2.1692037	21	2 8.3	20.0
329646 2003 SG_{191}	15.3	X	124.77028	316.48171	18.11647	10.59036	0.1016816	0.18140015	3.0906106	21	—	—
329647 2003 SJ_{192}	16.0	X	79.18534	350.71138	9.92048	10.78489	0.2159959	0.17558378	3.1584920	21	—	—
329648 2003 SB_{218}	16.1	X	109.43632	287.13227	49.10901	10.44195	0.1151159	0.17571297	3.1569437	21	—	—
329649 2003 SH_{242}	18.0	X	217.27908	102.23011	327.87949	0.75969	0.1622366	0.26104053	2.4247339	21	6 28.2	21.6
329650 2003 SD_{249}	15.6	X	113.54518	174.59899	202.40229	14.91476	0.1925869	0.18389229	3.0626242	21	1 19.2	20.3
329651 2003 SY_{281}	15.8	X	350.69493	252.83744	198.52344	22.83279	0.1289897	0.17574629	3.1565446	21	—	—
329652 2003 SZ_{283}	16.3	X	190.44170	153.56300	211.51432	14.43618	0.1994856	0.19700813	2.9251397	21	3 15.2	21.5
329653 2003 SJ_{285}	15.9	X	133.82846	117.38549	258.68785	8.34799	0.0611422	0.18962411	3.0005924	21	1 24.2	20.3
329654 2003 SD_{319}	15.6	X	55.67581	6.41595	41.33068	10.75531	0.0991816	0.17889067	3.1194469	21	—	—
329655 2003 SG_{322}	17.9	X	228.05009	277.28873	50.61193	4.72590	0.2167276	0.30795686	2.1717482	21	2 23.4	21.5
329656 2003 SO_{328}	16.9	X	85.43157	2.22069	60.11643	5.51306	0.1132578	0.29695494	2.2250632	21	—	—
329657 2003 SA_{349}	16.2	X	258.51242	87.53321	181.17612	12.42261	0.1004672	0.19314515	2.9640135	21	1 26.7	20.8
329658 2003 SG_{365}	16.3	X	95.11848	190.85684	190.23763	9.91476	0.0745436	0.18467031	3.0540162	21	—	—
329659 2003 SZ_{383}	18.0	X	76.00393	319.75000	69.34219	2.26304	0.0280619	0.29223286	2.2489684	21	—	—
329660 2003 SD_{397}	16.1	X	121.46367	227.87412	137.06581	9.94042	0.1411153	0.18326272	3.0696342	21	1 10.2	20.5
329661 2003 ST_{397}	18.0	X	49.66677	325.98085	113.39482	7.67415	0.0683218	0.29317581	2.2441435	21	—	—
329662 2003 SY_{399}	16.6	X	177.67691	229.76533	81.27451	12.87983	0.0723281	0.18322048	3.0701060	21	—	—
329663 2003 SE_{411}	16.7	X	201.86735	101.05492	207.98110	2.35761	0.0811626	0.19077566	2.9885056	21	1 20.4	21.3
329664 2003 TZ_{12}	15.5	X	84.09061	159.82114	228.60429	18.54125	0.2221610	0.18084742	3.0969046	21	—	—
329665 2003 TJ_{29}	15.4	X	160.99383	272.09509	17.20771	20.63625	0.0666360	0.17881210	3.1203605	21	—	—
329666 2003 TS_{34}	16.0	X	105.61199	165.43094	231.58414	14.36506	0.0606014	0.18518110	3.0483976	21	1 14.9	20.5
329667 2003 TN_{39}	15.8	X	275.38826	317.27667	236.05905	8.82017	0.0348742	0.18064907	3.0991712	21	—	—
329668 2003 TM_{56}	16.1	X	342.10611	90.00345	54.15735	11.43857	0.0255772	0.18317165	3.0706517	21	—	—
329669 2003 UD_{8}	16.5	X	339.74020	108.31435	238.38949	3.88755	0.5363245	0.22003951	2.7172876	21	6 27.1	17.0
329670 2003 UE_{16}	16.2	X	120.34248	255.14662	122.32515	5.85732	0.2583206	0.18450014	3.0558938	21	2 7.9	20.8
329671 2003 UF_{19}	15.4	X	204.36566	112.17372	220.86200	10.23836	0.1313800	0.19089634	2.9872460	21	2 16.9	20.4
329672 2003 UF_{27}	15.4	X	126.59774	295.42348	69.74300	9.79936	0.1092064	0.18371815	3.0645591	21	1 13.2	19.9
329673 2003 UO_{57}	15.9	X	185.45341	112.06874	222.13100	8.68680	0.1188539	0.19050428	2.9913430	21	2 1.7	20.8
329674 2003 UF_{59}	14.8	X	39.84974	199.64949	237.33447	23.44637	0.1681296	0.17828823	3.1264701	21	—	—
329675 2003 UO_{61}	17.4	X	138.86281	324.59627	56.83424	5.66977	0.1690073	0.29999370	2.2100120	21	2 4.4	20.2
329676 2003 UF_{75}	17.5	X	352.71374	47.68904	335.60052	6.05716	0.1468664	0.27743104	2.3282664	21	11 28.9	19.8
329677 2003 UA_{115}	15.6	X	197.28688	259.45379	39.98696	19.67731	0.0812770	0.18329666	3.0692553	21	1 7.8	20.6
329678 2003 UZ_{125}	15.5	X	154.40450	150.70193	213.35939	15.55778	0.1011808	0.18853478	3.0121393	21	2 3.4	20.4
329679 2003 UC_{140}	17.4	X	91.64830	265.73668	124.20789	7.52742	0.1426578	0.29319538	2.2440436	21	—	—
329680 2003 UB_{153}	17.1	X	91.28695	354.08219	49.84857	7.82556	0.1059443	0.29345468	2.2427216	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
329681 2003 UD_{153}	16.1	X	153.67440	267.48072	79.48982	2.07522	0.1778056	0.18487850	3.0517230	21	1 26.4	20.8
329682 2003 UA_{154}	15.3	X	170.31083	117.20518	221.97348	9.26021	0.0770424	0.18531471	3.0469322	21	1 22.3	20.1
329683 2003 UM_{157}	16.3	X	149.52412	305.88122	24.15520	6.12655	0.1329063	0.18320647	3.0702625	21	—	—
329684 2003 UC_{162}	15.8	X	176.34350	304.48371	36.31002	10.75480	0.1003390	0.18809225	3.0168621	21	2 7.3	20.6
329685 2003 UV_{166}	15.6	X	35.06942	231.41069	222.43685	9.59774	0.0617624	0.18153709	3.0890561	21	—	—
329686 2003 UB_{197}	15.9	X	309.32647	111.44661	204.58462	14.38344	0.1643378	0.20588823	2.8404144	21	5 20.0	19.6
329687 2003 UM_{197}	15.6	X	215.28884	100.51711	220.51547	9.03568	0.0915147	0.19117724	2.9843191	21	2 13.9	20.4
329688 2003 UB_{200}	16.2	X	160.69148	189.30604	186.31226	3.53438	0.1195088	0.19059253	2.9904196	21	2 28.8	20.8
329689 2003 UG_{200}	15.7	X	85.89151	344.02435	45.19670	9.65528	0.1728134	0.18060420	3.0996844	21	—	—
329690 2003 UQ_{203}	15.5	X	114.54290	146.87724	222.99017	12.64331	0.0351340	0.18093519	3.0959031	21	—	—
329691 2003 UN_{211}	15.3	X	186.73557	282.90160	43.03354	14.10906	0.1373504	0.18583842	3.0412052	21	2 2.4	20.4
329692 2003 UN_{220}	15.8	X	113.08106	143.86317	233.04291	7.91326	0.0904936	0.18209633	3.0827283	21	1 7.1	20.1
329693 2003 UU_{227}	15.4	X	34.42023	217.28124	240.38944	8.74197	0.1039297	0.18030409	3.1031231	21	—	—
329694 2003 UM_{228}	15.6	X	62.24448	12.36529	42.69361	10.45285	0.1078573	0.18095015	3.0957324	21	—	—
329695 2003 UK_{241}	16.4	X	84.00791	323.26884	63.14054	2.77961	0.1787017	0.18000380	3.1065732	21	—	—
329696 2003 UY_{244}	16.9	X	239.21309	302.34775	141.43580	4.06212	0.1248607	0.26498414	2.4006165	21	8 13.7	20.3
329697 2003 US_{258}	16.0	X	225.97565	79.92306	209.90986	8.86653	0.1233563	0.18795160	3.0183669	21	1 19.7	20.9
329698 2003 UN_{266}	15.5	X	198.09753	268.40878	46.39742	5.76337	0.1514583	0.18694071	3.0292384	21	1 27.7	20.5
329699 2003 UO_{268}	17.7	X	169.20546	141.59524	216.54407	4.52817	0.1943974	0.30003709	2.2097989	21	2 6.1	20.9
329700 2003 UQ_{269}	15.5	X	82.50518	164.77884	228.80097	9.30937	0.0897838	0.17901817	3.1179655	21	—	—
329701 2003 UV_{272}	15.7	X	51.88065	332.15598	64.52596	8.41103	0.1326653	0.17511627	3.1641110	21	—	—
329702 2003 UG_{274}	15.5	X	82.31824	158.51736	225.53516	17.49275	0.1773715	0.18010496	3.1054099	21	—	—
329703 2003 UN_{275}	17.1	X	277.43421	265.50154	226.41216	18.83796	0.2737752	0.27487266	2.3426910	21	11 23.2	19.0
329704 2003 UW_{288}	16.0	X	193.95121	81.39469	214.14727	8.34755	0.1160932	0.18388665	3.0626867	21	—	—
329705 2003 UB_{298}	16.8	X	307.42376	344.59038	297.16032	0.94289	0.0099770	0.19826298	2.9127842	21	4 23.7	20.8
329706 2003 UZ_{336}	15.9	X	49.21947	192.27369	232.86494	2.68637	0.1685838	0.18011276	3.1053203	21	—	—
329707 2003 UH_{353}	18.0	X	59.57115	312.03539	100.71965	4.00120	0.0935126	0.29156712	2.2523905	21	—	—
329708 2003 UJ_{355}	18.0	X	2.21102	41.60849	87.89704	5.61959	0.0625037	0.29415677	2.2391515	21	—	—
329709 2003 UF_{380}	16.5	X	116.92729	310.44846	49.70882	5.53239	0.0437824	0.18310771	3.0713664	21	—	—
329710 2003 UM_{385}	16.0	X	240.58087	32.16457	140.40113	6.20849	0.1311692	0.17130782	3.2108345	21	11 26.9	20.7
329711 2003 UD_{386}	16.1	X	245.73529	119.64789	43.13692	16.09775	0.1001630	0.17063673	3.2192475	21	11 21.6	20.9
329712 2003 WV_{5}	15.3	X	61.02501	184.24416	219.66751	6.66064	0.1919081	0.17630552	3.1498662	21	—	—
329713 2003 WO_{7}	18.8	X	251.10061	245.79644	91.22121	7.66548	0.4360180	0.31230365	2.1515495	21	3 17.3	23.1
329714 2003 WW_{22}	17.3	X	222.12659	206.29319	79.80085	3.26297	0.0270289	0.29414196	2.2392267	21	—	—
329715 2003 WJ_{23}	16.0	X	91.01308	162.01887	202.61034	4.86325	0.1643008	0.17597540	3.1538043	21	—	—
329716 2003 WK_{68}	17.0	X	63.58249	345.32154	63.50756	8.81948	0.1133416	0.28763507	2.2728712	21	—	—
329717 2003 WN_{69}	15.8	X	148.66983	126.15082	233.29361	8.12637	0.1037671	0.18255754	3.0775340	21	1 26.5	20.5
329718 2003 WD_{97}	17.8	X	139.68522	254.35504	100.91602	3.90409	0.2003358	0.29483688	2.2357068	21	1 4.6	20.6
329719 2003 WY_{101}	17.7	X	293.24868	26.07108	81.35411	3.31899	0.1617211	0.27546708	2.3393197	21	12 6.1	19.6
329720 2003 WM_{107}	15.1	X	113.00558	126.93838	239.72179	19.06251	0.1460127	0.17819270	3.1275873	21	1 1.3	19.7
329721 2003 WG_{109}	15.3	X	73.96540	168.09726	241.68226	9.57043	0.0620401	0.17941820	3.1133293	21	—	—
329722 2003 WE_{118}	16.9	X	42.45690	135.41267	290.43932	5.58741	0.1917126	0.28617098	2.2806168	21	—	—
329723 2003 WH_{145}	15.8	X	30.53819	355.16374	60.53109	23.56989	0.1544779	0.17283893	3.1918441	21	—	—
329724 2003 WR_{147}	17.5	X	203.82482	174.19253	173.13646	5.61543	0.1895887	0.30265685	2.1970286	21	2 24.6	21.1
329725 2003 WX_{150}	17.1	X	314.08226	349.86096	103.19688	6.31083	0.1573442	0.27647344	2.3336395	21	12 29.1	18.9
329726 2003 WZ_{160}	16.0	X	196.11864	77.92769	239.07192	7.89294	0.1603476	0.18414791	3.0597892	21	1 25.1	21.2
329727 2003 WS_{167}	17.6	X	13.39447	319.46497	137.31875	4.15493	0.0681075	0.28880005	2.2667548	21	—	—
329728 2003 WQ_{170}	15.2	X	155.92336	209.02099	121.69034	12.30715	0.1270499	0.18276672	3.0751854	21	1 5.2	20.0
329729 2003 XM_{3}	17.2	X	325.44330	238.89328	218.96423	6.31594	0.1404230	0.27771176	2.3266972	21	—	—
329730 2003 XP_{13}	15.7	X	147.14456	248.89991	121.24078	6.66125	0.3945096	0.18783851	3.0195783	21	3 4.8	21.2
329731 2003 XZ_{15}	15.5	X	166.56577	244.38541	71.26246	11.29952	0.0693422	0.17751736	3.1355146	21	—	—
329732 2003 XS_{24}	15.7	X	119.13908	97.65163	279.64018	9.11399	0.0380685	0.18069470	3.0986494	21	1 8.8	20.0
329733 2003 YF_{7}	17.2	X	350.31705	158.82139	281.58275	2.31868	0.1348881	0.27718327	2.3296537	21	—	—
329734 2003 YC_{22}	17.2	X	13.06186	11.82998	67.91515	8.06528	0.1336297	0.28325089	2.2962642	21	—	—
329735 2003 YJ_{28}	16.1	X	129.04260	292.26338	80.54221	7.28040	0.3339767	0.18387584	3.0628068	21	2 20.1	21.2
329736 2003 YF_{55}	17.3	X	9.12967	333.37679	91.84660	4.67832	0.1702053	0.28059045	2.3107562	21	—	—
329737 2003 YG_{86}	17.2	X	27.06102	308.62984	106.88186	3.24635	0.2071540	0.28085078	2.3093280	21	—	—
329738 2003 YF_{90}	17.0	X	326.39735	126.61592	336.16219	2.09557	0.0762394	0.27505841	2.3416362	21	—	—
329739 2003 YY_{104}	14.6	X	99.42813	261.14389	117.53430	26.30220	0.2691880	0.17466235	3.1695907	21	1 20.4	18.9
329740 2003 YP_{117}	15.4	X	142.01584	259.77777	89.74559	26.76541	0.2567798	0.17979601	3.1089663	21	1 27.5	20.7
329741 2003 YV_{180}	16.7	X	119.39523	39.73803	50.69423	4.82877	0.1999521	0.24177436	2.5518935	21	4 24.1	20.4
329742 2004 AB_{4}	17.6	X	302.99361	6.22695	86.54994	3.24581	0.1861363	0.27046868	2.3680529	21	11 30.6	19.5
329743 2004 BU_{24}	17.2	X	336.99287	304.11015	138.86146	2.05798	0.1511671	0.27406092	2.3473147	21	—	—
329744 2004 BV_{24}	17.6	X	188.42073	296.66452	268.90838	1.38224	0.1849312	0.26521003	2.3992532	21	11 20.1	21.4
329745 2004 BC_{34}	17.7	X	225.05324	37.73211	98.35395	2.31442	0.1281285	0.26264608	2.4148422	21	10 7.3	21.0
329746 2004 BL_{70}	16.9	X	272.95936	37.28309	109.44094	6.85792	0.0687499	0.27169707	2.3609099	21	—	—
329747 2004 BS_{74}	15.9	X	237.22464	76.93273	140.91699	21.95246	0.2321670	0.27259025	2.3557498	21	—	—
329748 2004 BM_{116}	16.7	X	233.41128	81.67158	101.04847	8.84512	0.0755233	0.27078936	2.3661829	21	12 26.7	19.5
329749 2004 BA_{126}	18.0	X	280.06905	81.14608	41.48324	2.34146	0.0922418	0.27013657	2.3699933	21	12 10.5	20.6
329750 2004 CO_{5}	16.8	X	259.06401	84.83462	74.22349	5.36230	0.0980706	0.27001667	2.3706949	21	12 27.7	19.4
329751 2004 CO_{44}	17.6	X	266.40498	11.79912	100.34839	4.44233	0.1333983	0.26684408	2.3894485	21	10 30.3	20.4
329752 2004 CD_{65}	16.9	X	74.90028	84.45501	59.13939	5.66193	0.1110925	0.23846691	2.5754352	21	4 24.2	20.0
329753 2004 CO_{91}	16.9	X	212.23618	25.68434	152.24543	24.30549	0.1951172	0.26415058	2.4056642	21	11 14.3	21.1
329754 2004 DY_{24}	17.5	X	172.09558	67.13650	354.27891	5.65524	0.1548381	0.29978023	2.2110610	21	4 29.5	20.8
329755 2004 EV_{12}	17.0	X	138.76147	110.56511	123.54862	3.99192	0.1451770	0.25775738	2.4452803	21	11 11.9	20.9
329756 2004 EU_{18}	16.8	X	241.09883	103.84948	30.25385	3.59921	0.0820027	0.26131254	2.4230510	21	10 29.7	19.9
329757 2004 ES_{20}	17.6	X	289.88998	334.77112	162.86298	23.03300	0.0844940	0.38167357	1.8822385	21	—	—
329758 2004 ET_{28}	18.7	X	128.15130	77.61582	162.30154	1.95425	0.1482525	0.25631523	2.4544439	21	11 8.3	22.5
329759 2004 EW_{80}	17.1	X	169.51848	91.20378	132.74549	6.53735	0.0846802	0.26228201	2.4170764	21	12 1.8	20.7
329760 2004 EU_{109}	17.9	X	187.21105	303.49063	221.15718	0.66968	0.1281829	0.25610421	2.4557920	21	10 1.2	21.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
329761 2004 FO_4	17.2	X	138.57185	273.01949	336.58356	4.24650	0.1653302	0.26008383	2.4306764	21	11 28.8	21.2
329762 2004 FE_{51}	17.1	X	173.69900	165.71369	48.30399	3.25824	0.1331536	0.26197584	2.4189593	21	11 19.4	20.8
329763 2004 FY_{93}	17.3	X	146.62922	96.51350	136.26009	1.91702	0.1445791	0.25668906	2.4520603	21	11 16.6	21.1
329764 2004 FC_{106}	17.5	X	161.01841	77.77313	99.61091	6.07992	0.1427620	0.25392738	2.4698071	21	9 24.3	21.4
329765 2004 FB_{115}	17.3	X	124.48270	179.14379	45.83418	5.07586	0.1102388	0.25244393	2.4794732	21	10 15.2	20.8
329766 2004 FJ_{157}	18.0	X	213.11826	334.89265	178.99262	0.97022	0.1309386	0.25858328	2.4400708	21	10 15.1	21.3
329767 2004 GS_{57}	17.7	X	172.55775	213.00745	318.39198	1.92337	0.1288550	0.25356262	2.4721751	21	9 24.2	21.3
329768 2004 GZ_{80}	17.7	X	140.89804	228.59047	358.72330	0.90164	0.1338666	0.25657689	2.4527749	21	11 3.5	21.3
329769 2004 HV_7	17.0	X	20.24291	73.79720	199.61030	13.24897	0.1574634	0.23949153	2.5680843	21	7 29.6	19.9
329770 2004 JA	17.9	X	350.90771	54.37247	56.86866	29.58533	0.6285092	0.62422972	1.3559378	21	—	—
329771 2004 JA_{11}	16.2	X	100.98205	204.68690	132.50496	8.12640	0.2652609	0.25697135	2.4502642	21	—	—
329772 2004 JQ_{34}	16.7	X	86.23739	150.93473	70.94069	18.03625	0.1621175	0.24205366	2.5499301	21	9 13.0	20.8
329773 2004 JM_{38}	17.7	X	245.81542	90.45351	71.82596	24.27259	0.0649706	0.37452036	1.9061296	21	—	—
329774 2004 LE	16.7	X	324.66909	185.20942	211.55152	40.39452	0.8369334	0.22890426	2.6466721	21	5 27.3	21.0
329775 2004 LA_4	17.7	X	131.32171	141.12101	99.26337	23.96992	0.0659357	0.36537456	1.9378070	21	12 2.4	20.2
329776 2004 LL_{18}	17.0	X	192.24691	298.39379	236.13507	19.56029	0.1413171	0.36602502	1.9355105	21	10 30.0	19.5
329777 2004 LV_{23}	17.0	X	80.03894	162.72906	107.31185	18.53034	0.1265867	0.24572218	2.5244870	21	11 1.9	21.0
329778 2004 MA_4	16.5	X	335.75590	15.41993	296.39777	7.57242	0.0930450	0.22959575	2.6413552	21	7 5.1	19.3
329779 2004 MT_7	15.9	X	27.00581	236.37760	45.06083	13.44586	0.1862884	0.23368899	2.6104210	21	9 9.8	18.9
329780 2004 NW_7	16.4	X	319.02598	220.98173	131.50323	12.69704	0.1938255	0.23062869	2.6334626	21	7 21.5	19.1
329781 2004 NH_{15}	16.7	X	49.59893	335.13311	291.48316	10.70305	0.2283377	0.23670276	2.5882159	21	9 18.6	20.2
329782 2004 NS_{23}	16.5	X	316.45798	223.87718	146.21784	16.95439	0.3268298	0.23061236	2.6335869	21	7 19.1	19.1
329783 2004 NY_{23}	15.6	X	272.91703	215.55522	145.28167	29.26110	0.1560813	0.22380383	2.6867321	21	6 6.1	20.1
329784 2004 NC_{30}	16.7	X	67.30454	96.07377	197.43183	5.68088	0.2250069	0.24561210	2.5252413	21	11 21.4	20.5
329785 2004 NV_{33}	16.3	X	34.00378	209.14611	82.74208	10.86865	0.1915073	0.23651494	2.5895859	21	10 6.7	19.5
329786 2004 PF_{17}	16.9	X	278.90651	183.19489	154.98483	10.15474	0.2058421	0.22069550	2.7119004	21	5 4.1	21.0
329787 2004 PS_{20}	17.5	X	59.74502	94.28822	227.49079	3.32211	0.2314249	0.24234055	2.5479173	21	12 17.9	21.3
329788 2004 PA_{26}	16.7	X	343.35916	200.62835	140.75025	6.52572	0.2306152	0.23251034	2.6192355	21	8 29.0	18.5
329789 2004 PV_{31}	16.2	X	11.90614	276.75305	339.58366	12.21727	0.1460410	0.22624850	2.6673433	21	6 19.1	19.2
329790 2004 PC_{41}	16.7	X	295.70928	255.66081	92.02308	13.97416	0.2107888	0.22691886	2.6620875	21	6 3.9	20.3
329791 2004 PK_{42}	17.1	X	12.31448	70.50725	242.49767	2.63519	0.1922267	0.23439762	2.6051571	21	9 18.9	19.6
329792 2004 PP_{59}	16.3	X	350.14670	165.09095	156.13995	12.16981	0.0843075	0.23145894	2.6271613	21	8 11.9	19.4
329793 2004 PZ_{62}	16.9	X	13.96286	100.71220	186.47143	11.76037	0.1685472	0.23292072	2.6161580	21	8 8.7	19.7
329794 2004 PL_{100}	16.7	X	11.89123	188.63153	136.08166	5.35968	0.3040596	0.23370042	2.6103358	21	10 28.3	19.0
329795 2004 PS_{102}	16.3	X	12.13212	105.00407	186.62886	11.66726	0.1875408	0.22941060	2.6427762	21	8 13.3	19.1
329796 2004 PM_{107}	16.9	X	134.72231	172.49225	186.07202	22.51438	0.0521871	0.37583528	1.9016811	21	—	—
329797 2004 PQ_{107}	17.3	X	41.61143	114.24146	186.65723	7.32594	0.2633402	0.23798814	2.5788881	21	11 6.1	20.5
329798 2004 QR_2	16.6	X	236.99849	219.34869	137.80544	9.83016	0.0986591	0.21801893	2.7340508	21	4 25.3	20.9
329799 2004 QY_3	16.8	X	24.48029	273.37729	23.90646	5.31494	0.2591620	0.23518949	2.5993062	21	10 3.3	19.2
329800 2004 QL_6	16.8	X	33.15790	176.81208	176.96744	4.98209	0.1168787	0.24275712	2.5450016	21	12 11.3	20.1
329801 2004 QS_6	16.3	X	218.09812	145.66931	230.22779	8.31182	0.1939499	0.21583976	2.7524224	21	4 20.3	20.9
329802 2004 QX_{20}	14.8	X	315.25520	66.86190	253.14871	30.66186	0.3324148	0.22043876	2.7140056	21	5 2.0	18.6
329803 2004 QF_{21}	17.9	X	11.44477	3.20656	324.88511	3.49249	0.1981175	0.29377337	2.2410993	21	10 22.7	19.9
329804 2004 RZ_6	16.7	X	312.54536	268.11696	75.93529	5.82643	0.2282938	0.22661971	2.6644297	21	6 20.8	19.6
329805 2004 RH_{15}	16.5	X	359.14040	148.87888	178.01175	11.85901	0.2059248	0.23186163	2.6241186	21	9 12.8	18.8
329806 2004 RG_{50}	17.0	X	16.96977	145.03509	164.53469	13.63231	0.2672270	0.23338226	2.6127077	21	10 9.9	19.5
329807 2004 RN_{55}	16.5	X	295.09481	90.05028	235.69922	4.03691	0.1111777	0.22137714	2.7063307	21	5 18.8	19.9
329808 2004 RD_{73}	17.4	X	80.54340	160.64591	153.87382	4.06617	0.2602871	0.24369613	2.5384598	21	12 30.7	21.7
329809 2004 RP_{75}	16.9	X	340.27354	205.15142	136.29044	3.02849	0.2197294	0.22933926	2.6433243	21	8 20.1	19.0
329810 2004 RY_{87}	16.1	X	350.66602	194.51210	112.10226	13.18673	0.1917378	0.22819113	2.6521833	21	7 21.1	18.4
329811 2004 RT_{89}	17.3	X	339.82221	92.43123	233.07620	3.67202	0.2602569	0.23003738	2.6379736	21	7 17.6	19.2
329812 2004 RS_{91}	16.7	X	19.50727	59.77644	244.58351	6.62893	0.1966309	0.23368104	2.6104801	21	9 18.7	19.5
329813 2004 RF_{93}	16.4	X	317.01749	167.24774	183.06103	14.21208	0.1253769	0.22867173	2.6484660	21	7 21.8	19.8
329814 2004 RF_{95}	16.5	X	311.55087	149.95269	171.67795	13.28691	0.1843028	0.22540847	2.6739661	21	5 27.9	20.0
329815 2004 RM_{124}	17.4	X	222.67549	167.55700	192.77639	3.35990	0.1071840	0.21400261	2.7681524	21	4 10.3	21.6
329816 2004 RA_{137}	16.5	X	163.78810	215.03513	184.02546	8.56801	0.0734216	0.20861878	2.8155751	21	3 27.7	20.4
329817 2004 RJ_{137}	16.2	X	271.08985	155.73236	191.15321	14.84509	0.2090089	0.22230212	2.6988183	21	5 4.9	20.4
329818 2004 RX_{147}	16.3	X	246.14517	321.33251	41.84378	5.17852	0.1349202	0.21755655	2.7379233	21	5 5.5	20.5
329819 2004 RF_{152}	15.9	X	184.01256	157.17197	211.18067	14.16131	0.1591668	0.20965925	2.8062522	21	3 11.2	20.6
329820 2004 RN_{152}	16.7	X	223.56421	115.09496	239.22300	8.22482	0.1792916	0.21382453	2.7696892	21	3 28.8	21.3
329821 2004 RW_{160}	16.7	X	302.57825	109.17763	191.28474	3.42476	0.0761225	0.21793201	2.7347777	21	5 1.4	20.2
329822 2004 RH_{176}	16.4	X	340.60272	83.16441	211.64390	10.46513	0.1560196	0.22499068	2.6772753	21	6 12.5	19.3
329823 2004 RH_{189}	16.5	X	333.30055	106.76708	236.39738	5.24757	0.2555437	0.22850188	2.6497782	21	7 28.9	18.6
329824 2004 RB_{195}	16.3	X	251.31489	115.90980	218.44613	19.17762	0.2874719	0.21327739	2.7744241	21	3 20.9	21.4
329825 2004 RH_{210}	16.1	X	283.21197	115.80393	243.30723	11.07110	0.1139591	0.22327715	2.6909556	21	6 16.0	19.6
329826 2004 RQ_{224}	16.1	X	284.04778	343.17665	1.34487	5.08131	0.0980808	0.21911432	2.7249312	21	5 30.1	19.8
329827 2004 RX_{242}	16.5	X	243.64617	184.80158	157.47376	5.45013	0.0159606	0.21413075	2.7670480	21	4 19.9	20.3
329828 2004 RV_{261}	16.3	X	271.01342	95.07170	351.00716	14.33402	0.1554982	0.17310254	3.1886028	21	9 14.4	20.6
329829 2004 RE_{292}	16.4	X	343.21533	119.51478	209.06263	10.51197	0.2830831	0.22799213	2.6537264	21	7 27.9	18.5
329830 2004 RX_{321}	16.5	X	256.46957	136.90370	214.08732	7.22464	0.2404582	0.21658103	2.7461385	21	4 20.9	20.9
329831 2004 RT_{324}	16.1	X	305.13784	112.36432	227.94102	11.51121	0.1599134	0.22230496	2.6987953	21	6 14.5	19.6
329832 2004 RO_{326}	16.5	X	334.20164	102.05567	204.68807	8.12915	0.1378410	0.22354390	2.6888144	21	6 19.7	19.6
329833 2004 RE_{341}	16.0	X	279.50841	106.25056	240.90609	13.46899	0.0588130	0.22245646	2.6975699	21	6 3.6	19.7
329834 2004 RY_{346}	16.3	X	224.89371	133.83439	234.18663	11.74913	0.1381312	0.21229251	2.7829982	21	4 18.7	20.7
329835 2004 SY_{10}	16.0	X	347.60940	173.57023	138.80501	15.57832	0.2800039	0.22933098	2.6433879	21	7 16.9	17.8
329836 2004 SJ_{18}	16.0	X	203.40152	291.78027	67.29544	10.01269	0.1753146	0.20892785	2.8127977	21	3 25.7	20.8
329837 2004 SH_{42}	16.5	X	249.40246	121.54175	252.31582	3.67297	0.1233926	0.21947779	2.7219220	21	5 23.8	20.6
329838 2004 SM_{58}	17.2	X	23.69985	76.62510	230.25350	4.14620	0.3699293	0.23316745	2.6143121	21	11 3.3	19.8
329839 2004 TC_{35}	16.8	X	340.77918	148.82724	250.30272	1.59709	0.1928958	0.17472596	3.1688214	21	11 4.8	20.0
329840 2004 TN_{41}	16.0	X	351.05354	237.39497	234.35681	7.61989	0.2315424	0.18520055	3.0481842	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
329841 2004 TW_{46}	16.3	X	247.19363	136.64096	210.53745	12.44131	0.1265531	0.21179886	2.7873209	21	4 17.5	20.4
329842 2004 TY_{50}	15.8	X	296.77570	110.24472	225.40338	7.88735	0.1697621	0.21807526	2.7335800	21	5 25.9	19.5
329843 2004 TQ_{64}	16.5	X	208.02328	174.41904	189.24205	7.76728	0.1583185	0.20868447	2.8149842	21	3 30.2	21.0
329844 2004 TM_{75}	16.9	X	131.88267	228.39314	168.34480	0.68959	0.0482750	0.19841229	2.9113226	21	2 14.8	21.1
329845 2004 TU_{91}	17.1	X	247.18864	111.20643	229.94932	3.53488	0.0773528	0.21105230	2.7938901	21	4 14.2	21.3
329846 2004 TY_{96}	16.8	X	45.07842	256.34315	194.95629	3.73452	0.1383877	0.19299615	2.9655389	21	1 4.8	20.3
329847 2004 TW_{109}	16.3	X	235.46999	309.77836	46.85132	9.93287	0.2585817	0.21170175	2.7881732	21	4 12.2	21.2
329848 2004 TV_{125}	16.0	X	266.87695	320.70565	38.45009	12.38713	0.1642704	0.21915078	2.7246290	21	5 17.9	20.0
329849 2004 TP_{134}	18.3	X	100.46892	108.27052	273.37602	1.75331	0.1688334	0.31190244	2.1533942	21	—	—
329850 2004 TS_{165}	16.6	X	149.41430	205.81032	197.57792	10.11106	0.1319732	0.20556479	2.8433931	21	3 21.7	21.0
329851 2004 TK_{192}	17.1	X	164.26930	222.68591	158.48031	2.42139	0.0921053	0.20419101	2.8561322	21	3 8.2	21.2
329852 2004 TV_{247}	16.0	X	320.52127	264.33561	88.29961	13.56151	0.2924086	0.22594762	2.6697107	21	7 8.1	18.4
329853 2004 TO_{262}	15.5	X	311.61650	266.45577	43.75979	12.03862	0.1928588	0.21764198	2.7372067	21	5 8.2	18.7
329854 2004 TQ_{290}	16.4	X	355.00207	71.91565	209.35637	12.12557	0.2107849	0.22225060	2.6992354	21	6 18.8	19.0
329855 2004 TD_{308}	15.8	X	268.67232	99.33887	239.90172	11.67595	0.1285450	0.21466587	2.7624476	21	4 29.7	19.8
329856 2004 TX_{356}	15.8	X	311.96188	275.24979	75.05755	13.66388	0.2100217	0.22487391	2.6782021	21	7 2.0	18.9
329857 2004 TY_{368}	16.1	X	6.62097	280.15278	211.68783	8.47751	0.1341662	0.18941393	3.0028118	21	—	—
329858 2004 VS_{23}	15.7	X	305.00317	107.88922	242.69286	11.86909	0.1166846	0.21858273	2.7293474	21	7 4.3	19.3
329859 2004 VK_{25}	16.0	X	143.12121	143.38630	271.04196	5.04165	0.0846739	0.20263841	2.8707026	21	3 22.7	20.3
329860 2004 VH_{29}	15.5	X	229.18504	165.33499	55.17957	20.08507	0.0341737	0.18430933	3.0580025	21	—	—
329861 2004 VK_{82}	15.5	X	88.99260	42.75609	27.54783	10.08257	0.0285914	0.19553516	2.9398114	21	2 5.0	19.7
329862 2004 XW_{9}	16.0	X	75.63921	349.99666	53.87393	4.53920	0.1627755	0.18749513	3.0232639	21	—	—
329863 2004 XQ_{29}	15.9	X	20.14471	40.37077	61.00248	5.33773	0.0835892	0.18609286	3.0384324	21	—	—
329864 2004 XX_{59}	15.4	X	59.36335	315.96478	80.28481	10.56798	0.2839489	0.18235028	3.0798656	21	—	—
329865 2004 XT_{61}	15.7	X	359.57259	12.67463	74.48018	11.87929	0.1422512	0.18084791	3.0968991	21	—	—
329866 2004 XM_{103}	15.9	X	350.24089	23.25900	76.99692	19.28927	0.2921342	0.17930002	3.1146971	21	—	—
329867 2004 XK_{132}	15.7	X	87.17574	310.61443	98.85643	11.46002	0.0729787	0.18840958	3.0134736	21	1 11.3	19.7
329868 2004 XE_{143}	15.6	X	339.08847	14.19842	273.44887	12.42431	0.1318914	0.21097403	2.7945811	21	6 1.9	18.9
329869 2004 XF_{160}	16.2	X	336.18982	22.14087	74.74087	11.47003	0.1933693	0.17524718	3.1625351	21	—	—
329870 2004 YE_{22}	18.3	X	223.78158	358.52249	305.44227	3.07173	0.0818062	0.30648035	2.1787177	21	1 17.6	21.0
329871 2005 AX_{3}	15.5	X	85.48580	330.91346	97.71647	11.54549	0.0833824	0.18823532	3.0153331	21	2 4.8	19.6
329872 2005 AA_{15}	15.4	X	341.78486	335.69899	114.74416	15.71577	0.0962256	0.17226095	3.1989797	21	—	—
329873 2005 AL_{18}	15.1	X	23.86557	319.05864	128.96197	28.66551	0.1652399	0.17845693	3.1244993	21	—	—
329874 2005 AR_{26}	15.7	X	336.94141	349.20610	116.39228	10.48044	0.2107463	0.17423765	3.1747391	21	—	—
329875 2005 AK_{82}	15.4	X	83.57770	248.34503	124.87791	22.31358	0.0438949	0.17654408	3.1470280	21	—	—
329876 2005 BT_{2}	16.0	X	184.96693	202.48349	118.56192	11.11278	0.0990579	0.18495995	3.0508271	21	1 19.9	20.7
329877 2005 BO_{23}	15.7	X	8.03002	327.87723	118.48398	10.69770	0.0641969	0.17391811	3.1786266	21	—	—
329878 2005 BB_{28}	17.5	X	254.60693	176.38610	156.21415	2.40755	0.0643546	0.31705995	2.1299780	21	4 3.3	20.1
329879 2005 CS_{15}	15.0	X	205.66403	114.95913	134.68960	25.69730	0.0681927	0.17268587	3.1937299	21	—	—
329880 2005 CZ_{28}	18.0	X	290.40974	109.03242	112.54255	4.51364	0.1174281	0.29968712	2.2115189	21	—	—
329881 2005 EN_{17}	17.7	X	232.20567	261.34565	352.23886	4.11815	0.1703008	0.29081532	2.2562707	21	—	—
329882 2005 ER_{20}	17.7	X	353.34241	16.07684	141.47148	4.67463	0.0937235	0.29988550	2.2105435	21	—	—
329883 2005 EX_{107}	15.9	X	22.96459	257.80071	141.49039	6.57310	0.1193496	0.16854118	3.2458768	21	—	—
329884 2005 EO_{147}	17.4	X	240.06145	201.43364	70.14899	1.98279	0.1239234	0.29506693	2.2345446	21	—	—
329885 2005 EL_{149}	17.6	X	206.47305	229.77111	48.07563	4.74800	0.1469299	0.28869559	2.2673015	21	—	—
329886 2005 EK_{167}	17.6	X	177.62559	265.40216	350.13635	6.94651	0.1679423	0.28167324	2.3048305	21	—	—
329887 2005 EL_{184}	17.1	X	286.54971	172.33687	19.01357	4.08080	0.1078813	0.29026689	2.2591118	21	—	—
329888 2005 EU_{230}	17.7	X	297.36069	40.83345	152.54086	6.47004	0.0960597	0.29566611	2.2315246	21	—	—
329889 2005 ES_{245}	18.1	X	201.66610	110.40075	175.36512	4.21382	0.0635835	0.29275559	2.2462905	21	—	—
329890 2005 ER_{274}	17.2	X	161.97474	113.15482	110.23918	2.84299	0.0419751	0.27608058	2.3358528	21	11 26.3	20.2
329891 2005 GH_{5}	17.7	X	192.16252	103.98151	139.68712	4.02055	0.0617451	0.28073501	2.3099629	21	—	—
329892 2005 GB_{30}	17.0	X	304.35968	0.04798	126.88515	6.21578	0.1016871	0.28402240	2.2921040	21	—	—
329893 2005 GU_{36}	17.6	X	191.75520	253.28074	30.40957	4.22785	0.1100844	0.28626549	2.2801148	21	—	—
329894 2005 GD_{38}	17.2	X	238.59301	345.13068	221.90837	5.67549	0.1140244	0.28421671	2.2910592	21	—	—
329895 2005 GF_{44}	17.6	X	269.83426	202.23609	336.81461	3.75107	0.2213351	0.28637831	2.2795159	21	—	—
329896 2005 GA_{115}	17.2	X	213.34571	230.26598	27.41030	7.41165	0.0914615	0.28583326	2.2824128	21	—	—
329897 2005 GY_{132}	17.6	X	186.52251	256.41266	48.44173	6.88490	0.1394866	0.28849354	2.2683600	21	—	—
329898 2005 GE_{137}	17.7	X	1.82117	332.28526	165.81051	2.64723	0.0376250	0.29363943	2.2417808	21	—	—
329899 2005 GV_{162}	17.6	X	278.51930	89.22093	97.46875	7.07885	0.1612071	0.28705924	2.2759097	21	—	—
329900 2005 HT_{9}	17.3	X	337.29595	347.51283	137.22498	6.88278	0.0451871	0.28354791	2.2946604	21	—	—
329901 2005 JQ_{1}	16.8	X	193.24809	246.33654	49.83972	8.37750	0.1313057	0.28620959	2.2804117	21	—	—
329902 2005 JS_{47}	17.8	X	266.51854	102.28859	63.31075	3.56828	0.1324123	0.28121999	2.3073063	21	—	—
329903 2005 JC_{85}	17.4	X	209.44157	149.98759	125.49033	3.00349	0.1766385	0.28488802	2.2874587	21	—	—
329904 2005 JW_{89}	18.3	X	198.13080	238.51415	68.17487	3.47278	0.2249934	0.28727022	2.2747952	21	1 4.9	22.1
329905 2005 JC_{100}	17.7	X	201.87821	91.95232	147.57216	6.38248	0.0968137	0.27877606	2.3207716	21	—	—
329906 2005 JM_{107}	17.7	X	203.04843	178.25820	99.98012	2.85272	0.2166129	0.28369627	2.2938603	21	—	—
329907 2005 JZ_{111}	17.7	X	199.77712	26.49693	235.43820	1.41187	0.1765981	0.28152717	2.3056276	21	—	—
329908 2005 JE_{116}	17.4	X	24.36297	2.41181	88.55603	6.60852	0.0396523	0.28654222	2.2786466	21	—	—
329909 2005 JV_{117}	17.0	X	359.96408	288.57241	104.69852	8.07175	0.1595911	0.26935398	2.3745817	21	12 27.8	19.3
329910 2005 JY_{175}	17.1	X	296.97643	321.34607	189.38687	23.30191	0.2197374	0.28502563	2.2867224	21	—	—
329911 2005 JA_{182}	17.7	X	221.05324	242.80259	54.96555	4.48697	0.2472356	0.29205568	2.2498779	21	1 12.6	21.6
329912 2005 LC_{8}	16.9	X	141.23052	271.51267	47.34271	5.92692	0.2489371	0.27361669	2.3498546	21	—	—
329913 2005 LD_{17}	17.6	X	164.05894	247.38005	68.67196	3.36402	0.2448730	0.28063067	2.3105354	21	—	—
329914 2005 LN_{18}	17.9	X	191.44128	62.39767	223.63862	6.64625	0.1260395	0.28243605	2.3006787	21	—	—
329915 2005 MB	17.1	X	239.41634	42.84469	88.62062	41.37146	0.7929736	1.00753216	0.9854398	21	—	—
329916 2005 MX_{7}	17.0	X	86.69064	111.59451	220.74690	6.26752	0.1288279	0.26516455	2.3995276	21	—	—
329917 2005 MG_{37}	17.5	X	150.37320	126.86040	127.03098	7.26856	0.1409376	0.26602814	2.3943318	21	12 17.3	21.2
329918 2005 MN_{41}	17.3	X	140.74592	187.02845	110.21665	5.15863	0.1365853	0.26976509	2.3721686	21	—	—
329919 2005 MM_{51}	14.1	X	359.68827	57.39150	262.58876	8.46115	0.2724931	0.12489132	3.9638258	21	8 19.8	18.3
329920 2005 NP	17.2	X	168.50954	163.22226	118.59140	7.11876	0.2081122	0.27342232	2.3509681	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
329921 2005 NA_{13}	14.8	X	344.73671	237.54993	112.42899	3.98117	0.2464963	0.12445316	3.9731238	21	8 30.5	19.0
329922 2005 NS_{13}	17.2	X	9.57770	218.39078	154.75100	7.95134	0.1910030	0.25411969	2.4685608	21	12 16.8	19.9
329923 2005 NK_{20}	16.5	X	186.08768	73.25656	275.68687	21.24856	0.3110832	0.28165258	2.3049432	21	2 10.4	21.0
329924 2005 NP_{21}	15.3	X	339.67847	168.07861	181.70385	5.24450	0.2811162	0.12316968	4.0006773	21	8 13.4	19.5
329925 2005 NO_{33}	18.1	X	148.40587	327.72511	311.49877	1.65450	0.1918181	0.26971650	2.3724535	21	—	—
329926 2005 NS_{43}	17.2	X	321.61339	182.74694	117.13305	1.93311	0.1578211	0.24072705	2.5592897	21	5 14.7	20.1
329927 2005 NN_{78}	15.2	X	5.68737	184.41600	124.50841	3.73920	0.2445830	0.12397572	3.9833178	21	8 22.3	19.5
329928 2005 NF_{81}	17.2	X	273.83673	14.31413	308.54771	3.47161	0.1488353	0.23473767	2.6026406	21	4 9.6	21.0
329929 2005 NO_{102}	17.4	X	72.32831	175.43265	164.32559	6.29544	0.1207027	0.26348736	2.4096993	21	—	—
329930 2005 NS_{123}	17.3	X	147.43647	327.91289	314.20854	1.76728	0.2152037	0.26903220	2.3764747	21	—	—
329931 2005 OP_{5}	17.7	X	121.05765	151.23361	150.46486	2.52409	0.2095745	0.26648102	2.3916183	21	—	—
329932 2005 OQ_{5}	17.7	X	124.56238	160.07402	133.20304	2.83628	0.2015527	0.26605122	2.3941933	21	—	—
329933 2005 OP_{8}	18.0	X	115.16943	110.28825	222.01995	2.13607	0.2645413	0.26939722	2.3743276	21	—	—
329934 2005 OY_{14}	17.1	X	75.89072	293.00639	32.56698	7.10123	0.1470591	0.26250184	2.4157268	21	—	—
329935 Prévôt	17.3	X	33.25314	120.79256	216.31552	5.71977	0.2315788	0.25687736	2.4508618	21	12 10.0	20.4
329936 2005 OC_{20}	18.2	X	111.64260	171.03801	137.39992	3.29685	0.1995598	0.26551661	2.3974060	21	—	—
329937 2005 PC_{4}	17.5	X	164.20587	158.63164	144.91399	6.34771	0.2809602	0.27482034	2.3429884	21	—	—
329938 2005 PF_{9}	15.3	X	0.63610	193.62429	136.27919	3.51251	0.2946988	0.12406590	3.9813873	21	9 10.6	19.2
329939 2005 PF_{19}	15.4	X	12.14684	115.73425	203.84038	0.91596	0.2236294	0.12581456	3.9444106	21	9 16.1	19.7
329940 2005 QG_{10}	17.4	X	125.67519	40.75540	346.85503	2.49821	0.1892859	0.21432041	2.7654153	21	2 12.6	21.4
329941 2005 QT_{11}	17.4	X	192.85799	183.15704	124.79728	6.39754	0.1779449	0.27969917	2.3156625	21	—	—
329942 2005 QG_{14}	16.8	X	62.55543	182.41857	147.96946	16.81906	0.1374711	0.26013510	2.4303571	21	12 24.8	20.5
329943 2005 QP_{15}	17.6	X	126.33300	81.69876	179.74388	4.68779	0.1596269	0.25994118	2.4315656	21	12 3.8	21.4
329944 2005 QD_{30}	17.7	X	128.60881	73.41469	229.19907	1.44099	0.2179667	0.26618284	2.3934040	21	—	—
329945 2005 QB_{31}	17.2	X	66.38697	286.71651	68.64439	5.75108	0.2255004	0.26314252	2.4118041	21	—	—
329946 2005 QW_{36}	17.4	X	121.02908	9.23389	313.71997	1.83809	0.2325495	0.26686516	2.3893226	21	—	—
329947 2005 QA_{39}	17.5	X	129.78637	37.82403	317.67336	0.53920	0.2016424	0.27201700	2.3590584	21	—	—
329948 2005 QK_{39}	17.1	X	8.07346	274.56021	94.88766	1.57826	0.2299499	0.25434783	2.4670845	21	12 14.9	19.4
329949 2005 QM_{46}	17.8	X	117.92048	176.17910	108.67382	3.75736	0.1742442	0.26164813	2.4209786	21	12 24.7	21.6
329950 2005 QB_{54}	17.5	X	113.02627	167.03703	155.44471	5.23716	0.2064280	0.26669259	2.3903532	21	—	—
329951 2005 QW_{57}	17.2	X	55.24976	296.87414	18.17604	10.78518	0.2597104	0.25712813	2.4492680	21	12 9.1	21.0
329952 2005 QD_{62}	18.0	X	80.20799	242.83263	51.34240	1.09284	0.2008898	0.25731072	2.4481093	21	12 3.1	21.5
329953 2005 QJ_{65}	17.6	X	141.44984	218.34932	63.14394	2.88621	0.2407296	0.26536294	2.3983315	21	—	—
329954 2005 QD_{70}	17.7	X	108.42123	202.22865	117.80470	3.13411	0.2226348	0.26634225	2.3924489	21	—	—
329955 2005 QK_{72}	16.9	X	63.91536	87.36595	211.74444	5.10060	0.1336790	0.25275452	2.4774416	21	11 13.9	20.1
329956 2005 QW_{101}	17.4	X	273.63393	99.78081	218.44498	2.37428	0.1177433	0.23052478	2.6342540	21	4 9.1	21.0
329957 2005 QZ_{108}	17.0	X	256.31053	232.53395	178.45898	14.44469	0.1018599	0.24015842	2.5633279	21	7 21.1	20.8
329958 2005 QX_{123}	15.9	X	315.15577	232.31967	346.40873	13.79547	0.1139810	0.22103409	2.7091302	21	1 29.5	19.7
329959 2005 QG_{143}	17.7	X	56.16506	151.61813	173.93138	2.47090	0.1983080	0.25759247	2.4463238	21	12 17.6	21.1
329960 2005 QN_{143}	17.7	X	344.04190	227.59478	128.99764	1.05215	0.0870279	0.24757947	2.5118458	21	9 25.4	20.2
329961 2005 QS_{151}	17.3	X	99.41132	102.97329	216.87522	5.64238	0.1140906	0.26505664	2.4001788	21	—	—
329962 2005 QE_{158}	17.6	X	70.92226	234.85600	94.98954	4.11159	0.1956703	0.25870388	2.4393124	21	—	—
329963 2005 QH_{158}	17.3	X	52.00393	210.35280	129.73084	5.60285	0.1515704	0.25634760	2.4542373	21	12 25.1	20.6
329964 2005 QZ_{165}	16.7	X	224.61985	31.92849	37.35272	11.26362	0.1502434	0.23362619	2.6108887	21	7 6.4	20.9
329965 2005 RG_{16}	17.2	X	175.40683	111.64154	344.75489	3.16517	0.0935166	0.23483634	2.6019114	21	6 21.4	21.1
329966 2005 RL_{45}	16.4	X	348.53226	347.97343	344.26084	13.58901	0.1757649	0.24127341	2.5554246	21	8 29.6	18.6
329967 2005 SA_{24}	16.2	X	225.80532	176.15726	160.33642	9.73096	0.2773306	0.22337267	2.6901884	21	3 9.1	20.9
329968 2005 SG_{29}	17.2	X	128.70774	46.37945	227.69960	4.94345	0.1733651	0.25873512	2.4391160	21	12 20.5	21.2
329969 2005 SJ_{36}	17.7	X	59.81009	329.90479	3.91802	0.90100	0.1895554	0.25658869	2.4526997	21	12 30.6	21.3
329970 2005 SG_{52}	16.5	X	138.91581	75.70171	33.60896	7.71524	0.0975013	0.22423772	2.6832652	21	5 27.9	20.4
329971 2005 SS_{69}	16.7	X	48.25402	274.64266	76.79810	14.15682	0.2795701	0.25651622	2.4531616	21	—	—
329972 2005 SF_{77}	16.8	X	183.83983	96.78236	179.44820	7.61716	0.2257422	0.27045782	2.3681162	21	—	—
329973 2005 SN_{78}	17.5	X	274.92189	297.24426	94.70644	1.73642	0.0888855	0.23872517	2.5735774	21	7 24.5	20.9
329974 2005 SP_{78}	16.9	X	139.32567	14.92532	180.34769	10.91439	0.0276009	0.24412236	2.5355042	21	9 16.2	20.2
329975 2005 SW_{99}	16.4	X	89.33091	15.55046	219.31005	12.49421	0.0690071	0.24106971	2.5568640	21	9 6.0	20.1
329976 2005 SB_{102}	16.5	X	212.74232	1.53164	307.47091	4.26662	0.0339692	0.21295166	2.7772525	21	1 28.2	20.3
329977 2005 SS_{120}	17.1	X	258.32919	279.53713	3.13441	3.61777	0.0536432	0.21863685	2.7288970	21	2 15.8	20.9
329978 2005 SC_{135}	17.2	X	109.16173	44.11804	14.08327	3.27641	0.0820939	0.21421410	2.7663302	21	2 16.8	20.8
329979 2005 SK_{149}	17.0	X	337.27292	291.45310	134.87024	3.02212	0.1033639	0.18997906	2.9968538	21	12 7.2	20.6
329980 2005 SW_{156}	16.9	X	194.85648	233.45616	184.83239	4.90488	0.1964095	0.22644527	2.6657979	21	5 23.9	21.4
329981 2005 SV_{167}	17.6	X	73.53696	103.00508	184.71608	23.39040	0.0288505	0.37671210	1.8987291	21	11 20.3	20.0
329982 2005 SP_{173}	17.0	X	160.48837	27.71426	340.74522	4.92932	0.1226551	0.21539068	2.7562469	21	2 18.2	21.1
329983 2005 SY_{197}	17.2	X	217.83050	163.09639	228.95033	0.68363	0.1290882	0.23084258	2.6318357	21	5 12.9	21.3
329984 2005 SN_{226}	17.6	X	125.24936	318.28957	307.18229	0.75262	0.1645703	0.25674588	2.4516985	21	12 6.7	21.5
329985 2005 SY_{229}	17.3	X	151.19674	120.44312	335.05671	1.31829	0.0539507	0.22766235	2.6562885	21	5 20.9	21.0
329986 2005 SU_{235}	17.1	X	322.31919	351.92770	349.61780	3.45569	0.1592842	0.23819747	2.5773770	21	7 17.9	19.7
329987 2005 SD_{237}	16.2	X	237.76908	189.24953	214.25036	14.08808	0.0915861	0.23151125	2.6267655	21	6 20.6	20.2
329988 2005 ST_{272}	17.7	X	352.25952	148.66090	198.15622	1.23797	0.1039876	0.24616486	2.5214596	21	9 25.3	20.2
329989 2005 SC_{279}	16.3	X	50.75572	152.04260	30.52861	12.77381	0.0442114	0.22497501	2.6773996	21	5 1.2	19.7
329990 2005 ST_{283}	17.1	X	258.84460	283.43973	144.15779	12.12878	0.0419165	0.23837988	2.5760621	21	8 28.7	20.4
329991 2005 TA_{19}	16.9	X	158.18179	317.55534	196.30567	8.72778	0.0437451	0.23980483	2.5658470	21	8 13.3	20.7
329992 2005 TM_{52}	16.4	X	213.39703	287.10531	105.49323	7.35209	0.0924946	0.22438708	2.6820744	21	5 13.3	20.5
329993 2005 TM_{54}	16.5	X	148.80844	238.64786	88.18755	5.23057	0.2725463	0.27027290	2.3691963	21	—	—
329994 2005 TV_{57}	17.4	X	194.54937	8.32122	53.92356	2.22320	0.0648537	0.22742640	2.6581254	21	5 28.9	21.1
329995 2005 TH_{60}	16.7	X	115.25911	264.14887	204.65993	15.01038	0.1940245	0.22118199	2.7079224	21	5 14.5	20.8
329996 2005 TO_{63}	16.8	X	230.80530	328.20180	354.70979	5.46966	0.0897083	0.22057808	2.7128627	21	3 4.0	20.9
329997 2005 TA_{74}	16.9	X	319.00504	253.52976	104.19890	5.26923	0.1947090	0.23958467	2.5674187	21	7 31.1	19.3
329998 2005 TM_{87}	17.7	X	38.06569	132.56486	169.07975	3.71627	0.1258591	0.24658900	2.5185674	21	10 11.8	20.7
329999 2005 TO_{93}	16.9	X	284.28900	149.02934	214.88343	8.27201	0.1071697	0.23460184	2.6036451	21	6 24.7	20.5
330000 2005 TO_{95}	16.6	X	118.60937	173.51865	286.76233	4.02378	0.1259838	0.22026535	2.7154299	21	4 25.9	20.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
330001 2005 TA_{117}	16.4	X	145.49511	266.04372	197.52832	21.59672	0.0425624	0.22815253	2.6524825	21	5 25.2	20.4
330002 2005 TV_{119}	17.1	X	216.09412	29.92118	12.70412	6.17970	0.0986919	0.22894706	2.6463422	21	5 24.9	21.2
330003 2005 TC_{131}	16.6	X	122.36336	72.67968	45.56312	8.02474	0.0898643	0.22292544	2.6937852	21	5 19.9	20.4
330004 2005 TG_{136}	16.9	X	132.25989	207.27600	171.09451	4.96324	0.1267255	0.21129032	2.7917915	21	1 30.8	20.9
330005 2005 TD_{147}	17.3	X	342.41269	265.67125	74.84057	4.51364	0.0190281	0.24028040	2.5624603	21	9 1.0	20.6
330006 2005 TS_{165}	16.2	X	86.20191	232.26365	13.77183	5.64095	0.2081010	0.24280068	2.5446972	21	10 9.1	20.0
330007 2005 TY_{170}	16.2	X	246.20153	192.05190	227.63929	12.39190	0.2561212	0.23308573	2.6149231	21	7 2.9	20.6
330008 2005 TS_{190}	17.8	X	321.67678	356.68232	71.28741	1.23064	0.2286747	0.18356349	3.0662803	21	11 5.3	20.7
330009 2005 UA_{19}	17.0	X	208.61303	346.42549	78.32106	3.55672	0.0903280	0.22772779	2.6557796	21	6 16.5	20.8
330010 2005 US_{34}	17.3	X	356.40777	111.43732	215.72722	2.17099	0.1389841	0.23924750	2.5698303	21	9 3.6	19.7
330011 2005 UF_{42}	17.1	X	304.08045	16.06660	8.02592	4.52504	0.1574450	0.23982370	2.5657125	21	8 18.3	19.8
330012 2005 UX_{46}	17.4	X	45.74705	170.93790	128.05502	2.30934	0.2060497	0.24469942	2.5315164	21	10 31.9	20.6
330013 2005 UM_{55}	16.4	X	246.20299	356.90855	35.84782	12.64614	0.1602995	0.23000619	2.6382120	21	6 7.7	20.5
330014 2005 UD_{64}	16.9	X	302.30491	213.97359	168.59867	6.19887	0.1442619	0.23757517	2.5818758	21	8 11.9	19.9
330015 2005 UN_{73}	16.7	X	295.84209	334.41993	46.19075	17.84642	0.2255578	0.23752472	2.5822414	21	7 19.9	20.2
330016 2005 UE_{79}	16.4	X	254.51739	164.23603	212.27791	12.70658	0.1809274	0.22897193	2.6461505	21	5 27.0	20.5
330017 2005 UQ_{83}	16.8	X	115.86163	274.37805	203.14809	1.32347	0.0467694	0.22215214	2.7000328	21	5 5.9	20.6
330018 2005 UU_{92}	16.8	X	53.31326	123.58266	18.33276	7.56561	0.0876990	0.21328342	2.7743717	21	3 20.0	20.1
330019 2005 UC_{98}	17.3	X	344.50265	120.23812	209.33196	11.93932	0.1207041	0.23759153	2.5817573	21	8 10.3	20.3
330020 2005 UP_{100}	17.4	X	281.68969	227.52202	153.66951	4.01078	0.0254652	0.23384774	2.6092394	21	7 28.2	20.7
330021 2005 UC_{106}	16.9	X	169.24525	246.89666	174.78524	3.45623	0.1786805	0.21991525	2.7183110	21	5 5.9	21.4
330022 2005 UM_{108}	17.2	X	9.05283	119.69769	216.50381	13.70787	0.1402954	0.24309697	2.5426291	21	10 11.7	20.0
330023 2005 UW_{116}	16.2	X	338.57933	119.18830	230.43849	13.64130	0.1546676	0.23986479	2.5654195	21	8 25.9	19.0
330024 2005 UV_{122}	15.9	X	74.72775	121.73381	37.89278	13.63546	0.1493318	0.21954873	2.7213356	21	5 20.2	19.4
330025 2005 UT_{125}	16.6	X	51.77775	226.11104	40.83008	5.54316	0.2047662	0.23844550	2.5755894	21	9 27.1	19.8
330026 2005 UV_{129}	16.5	X	56.23034	52.47615	236.56689	4.04550	0.1228506	0.24323726	2.5416514	21	10 17.5	19.8
330027 2005 UF_{142}	16.7	X	354.13601	245.18115	111.35062	7.32709	0.2461418	0.24537398	2.5268748	21	10 30.8	18.7
330028 2005 UW_{157}	16.5	X	282.32547	119.01492	216.95722	11.68036	0.0703973	0.22661416	2.6644732	21	5 21.9	20.1
330029 2005 UH_{172}	16.9	X	237.13655	154.13354	222.26448	5.32114	0.0622107	0.22546343	2.6735315	21	5 19.4	20.6
330030 2005 UQ_{180}	16.7	X	309.42350	153.18633	214.55187	8.22384	0.0593380	0.23520687	2.5991782	21	8 11.5	20.1
330031 2005 UE_{191}	16.2	X	175.70702	44.93127	43.13049	15.21690	0.0715164	0.22570041	2.6716598	21	6 8.1	20.3
330032 2005 UN_{193}	17.6	X	354.60875	262.18881	43.44597	3.45890	0.0802925	0.23732424	2.5836954	21	7 30.6	20.5
330033 2005 UB_{199}	16.5	X	37.14397	216.98799	50.48156	7.80263	0.1253765	0.23631082	2.5910769	21	8 24.9	19.6
330034 2005 UR_{216}	16.2	X	153.46721	205.22770	238.12359	13.39230	0.1637135	0.21852859	2.7297982	21	5 16.6	20.4
330035 2005 UL_{218}	17.3	X	4.26964	295.45601	322.52156	3.68501	0.0485850	0.22836438	2.6508418	21	6 5.7	20.5
330036 2005 UH_{232}	16.4	X	59.09013	111.02124	53.35739	5.68110	0.0520117	0.21863757	2.7288910	21	4 22.8	19.9
330037 2005 UF_{233}	17.2	X	211.02006	273.08938	125.68393	3.53043	0.0628244	0.22436523	2.6822485	21	5 18.7	21.0
330038 2005 UA_{234}	16.8	X	144.94388	14.73985	87.32401	5.71591	0.1129655	0.22191108	2.7019879	21	5 28.6	20.8
330039 2005 UO_{238}	16.7	X	334.71316	277.39294	66.68199	15.51398	0.1492779	0.23790161	2.5795134	21	8 25.1	19.7
330040 2005 UV_{280}	16.5	X	69.35140	289.85419	241.95716	4.03192	0.0516453	0.22064550	2.7123101	21	5 16.2	19.8
330041 2005 UX_{281}	17.5	X	356.00647	229.35698	60.00340	4.59512	0.0436769	0.23025451	2.6363149	21	7 8.4	20.7
330042 2005 UN_{286}	16.9	X	10.26306	213.22771	66.62201	5.93972	0.0925421	0.23461350	2.6035587	21	7 20.0	19.8
330043 2005 UD_{308}	17.2	X	300.27797	6.17925	2.45503	0.87298	0.1387172	0.23553223	2.5967840	21	7 21.4	20.2
330044 2005 UK_{310}	16.9	X	104.16835	228.68761	45.73367	5.50004	0.2012921	0.25454921	2.4657832	21	11 29.9	20.9
330045 2005 UC_{313}	16.8	X	251.37564	3.42180	4.72958	6.17431	0.1039112	0.22689598	2.6622664	21	5 18.8	20.7
330046 2005 UR_{315}	16.7	X	289.36152	163.88362	206.30754	7.65876	0.0862378	0.23375371	2.6099391	21	7 13.2	20.2
330047 2005 UB_{328}	16.1	X	358.02145	91.25303	237.58612	11.44926	0.1170864	0.23801743	2.5786765	21	9 2.8	19.2
330048 2005 UU_{328}	17.3	X	308.78158	288.36330	55.21651	4.29260	0.1130956	0.23485419	2.6017796	21	7 2.9	20.4
330049 2005 UY_{332}	17.6	X	207.13652	243.66267	174.98452	1.85864	0.0739047	0.22762998	2.6565403	21	6 7.8	21.4
330050 2005 UN_{349}	16.7	X	19.96087	265.64067	141.61521	5.51870	0.2247782	0.19199834	2.9758045	21	—	—
330051 2005 UE_{365}	17.1	X	182.58227	264.49925	197.54368	7.75777	0.0203482	0.22990138	2.6390138	21	7 6.0	20.8
330052 2005 UZ_{369}	16.8	X	40.22822	89.32685	68.55075	9.93810	0.1688161	0.21136754	2.7911115	21	3 30.9	19.9
330053 2005 UY_{372}	17.2	X	126.78267	39.01374	34.13823	4.92546	0.0395227	0.21346534	2.7727953	21	3 24.3	21.0
330054 2005 UY_{376}	16.6	X	47.64246	19.57350	239.61024	12.96982	0.2247272	0.23732838	2.5836654	21	9 4.6	20.0
330055 2005 UH_{388}	16.3	X	87.85729	189.91423	45.22133	14.03800	0.1680576	0.24019740	2.5630506	21	9 28.9	20.2
330056 2005 UC_{423}	17.2	X	3.11774	307.80608	38.40625	3.63404	0.1972696	0.24462841	2.5320063	21	10 24.7	19.3
330057 2005 UR_{438}	17.0	X	199.81593	307.51372	99.01515	4.35151	0.1184231	0.22588289	2.6702207	21	5 14.9	21.2
330058 2005 UU_{456}	16.6	X	310.63190	322.24222	49.34437	3.55410	0.1906983	0.23745574	2.5827415	21	8 5.9	19.2
330059 2005 UA_{461}	17.0	X	294.02677	26.68047	287.27047	1.67802	0.0913095	0.22314718	2.6920003	21	5 3.7	20.6
330060 2005 UM_{491}	16.4	X	80.54998	277.56963	52.23652	11.81673	0.2296582	0.26148082	2.4220113	21	—	—
330061 2005 UH_{515}	16.8	X	51.12977	107.74133	134.11039	12.34749	0.1680926	0.23351684	2.6117038	21	8 13.8	19.9
330062 2005 UH_{530}	16.4	X	207.43458	317.33199	89.59188	10.62070	0.0830786	0.22580777	2.6708129	21	5 24.9	20.5
330063 2005 VB_{1}	17.3	X	134.20794	48.29012	238.37118	22.15988	0.0630138	0.38241846	1.8797935	21	—	—
330064 2005 VX_{1}	16.2	X	279.87461	150.00478	214.19620	33.51701	0.2598885	0.23349725	2.6118498	21	5 26.2	20.4
330065 2005 VQ_{5}	16.0	X	46.67103	221.30711	48.48730	14.81940	0.0566122	0.23624440	2.5915626	21	9 6.7	19.6
330066 2005 VX_{25}	17.1	X	19.23843	348.51871	335.51343	4.22191	0.2493305	0.24638725	2.5199421	21	10 30.1	19.7
330067 2005 VP_{32}	16.5	X	174.31546	193.24329	237.64854	11.94070	0.0917884	0.22094795	2.7098343	21	5 18.3	20.4
330068 2005 VS_{38}	17.3	X	354.58123	266.18120	85.74268	6.86784	0.2420467	0.24376169	2.5380047	21	10 23.1	19.3
330069 2005 VM_{53}	17.0	X	285.48720	54.87542	337.81559	6.35400	0.1170969	0.23812912	2.5778702	21	8 6.4	20.1
330070 2005 VG_{56}	16.1	X	49.00046	200.78997	67.33052	13.47813	0.1384104	0.23733579	2.5836116	21	9 20.1	19.6
330071 2005 VK_{73}	16.1	X	118.93378	37.04553	71.70373	14.45386	0.1638772	0.21606414	2.7505165	21	5 16.0	20.2
330072 2005 VK_{75}	16.1	X	35.12948	243.30706	46.09344	9.88286	0.1296280	0.23923332	2.5699318	21	9 23.9	19.2
330073 2005 VP_{85}	17.2	X	129.50768	276.72302	179.88469	4.22770	0.0182836	0.21888249	2.7268550	21	4 23.0	20.9
330074 2005 VD_{95}	16.7	X	203.75250	300.65845	90.23777	5.88744	0.1217265	0.22042596	2.7141107	21	4 30.3	20.9
330075 2005 VG_{109}	17.9	X	297.29809	305.30197	52.62460	3.33885	0.1352026	0.23436704	2.6053837	21	7 1.7	21.1
330076 2005 VU_{109}	16.8	X	1.86070	10.04183	216.57270	4.29038	0.0507816	0.22082346	2.7108526	21	4 20.1	20.1
330077 2005 VZ_{113}	16.8	X	271.18667	267.29985	101.33622	4.56514	0.0466767	0.22988204	2.6391618	21	6 23.4	20.4
330078 2005 VE_{136}	17.2	X	358.28782	219.32712	66.54528	5.01499	0.1081777	0.23049471	2.6344831	21	7 6.6	19.9
330079 2005 WH_{3}	16.2	X	174.38695	214.65116	216.83660	13.41549	0.1809347	0.22107327	2.7088101	21	5 22.4	20.7
330080 2005 WV_{8}	17.1	X	129.74007	125.38067	238.83417	1.06782	0.0782167	0.20351014	2.8624990	21	1 6.6	20.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
330081 2005 WV_{35}	16.5	X	265.99373	128.74633	239.16770	5.08048	0.0642682	0.22590417	2.6700530	21	6 12.8	20.2
330082 2005 WZ_{53}	18.1	X	223.13056	72.88403	67.76855	23.18710	0.0718007	0.36666527	1.9332567	21	11 9.6	20.2
330083 2005 WL_{57}	17.2	X	350.90305	315.12761	89.54136	24.63652	0.1098971	0.37485202	1.9050051	21	—	—
330084 2005 WA_{70}	17.2	X	285.15098	146.37585	236.48124	3.64650	0.1408935	0.23303669	2.6152899	21	7 16.7	20.4
330085 2005 WE_{76}	17.0	X	17.68429	18.80763	308.71361	1.73195	0.2135797	0.24212025	2.5494626	21	10 26.4	19.5
330086 2005 WZ_{89}	16.2	X	270.38935	290.13944	61.02551	14.73723	0.0931732	0.22617602	2.6679131	21	5 22.6	19.9
330087 2005 WD_{90}	16.3	X	185.50693	141.83779	247.67425	5.23462	0.0689040	0.21651011	2.7467382	21	4 5.5	20.5
330088 2005 WL_{90}	16.8	X	243.46150	336.02185	54.34178	14.09313	0.2477387	0.22857664	2.6492005	21	5 25.9	21.3
330089 2005 WP_{91}	16.3	X	356.13209	268.79008	73.03924	4.95443	0.1474184	0.23940987	2.5686682	21	9 30.1	18.8
330090 2005 WL_{92}	17.2	X	156.35335	350.15908	67.52862	5.37427	0.1040133	0.21553763	2.7549940	21	4 15.4	21.4
330091 2005 WS_{92}	16.7	X	24.00391	235.55351	76.53817	4.94427	0.1891886	0.23941241	2.5686501	21	10 14.4	19.4
330092 2005 WV_{92}	16.4	X	15.99826	227.40950	73.66239	11.67611	0.1261285	0.23424533	2.6062861	21	9 8.8	19.5
330093 2005 WP_{103}	16.4	X	261.96414	311.53541	71.16889	15.79620	0.1370880	0.23025438	2.6363159	21	6 16.2	20.1
330094 2005 WM_{108}	17.0	X	294.41849	265.24042	74.38180	4.00737	0.1142519	0.22932978	2.6433972	21	6 4.9	20.5
330095 2005 WC_{115}	16.4	X	155.09583	340.21713	88.36781	5.83657	0.0546014	0.21340565	2.7733123	21	4 24.4	20.4
330096 2005 WA_{119}	16.8	X	3.12961	25.87700	47.32983	1.57576	0.1491436	0.19184864	2.9773523	21	—	—
330097 2005 WU_{120}	15.9	X	26.11246	2.46814	251.86042	12.09677	0.1228721	0.22790736	2.6543844	21	7 9.7	18.9
330098 2005 WT_{123}	17.1	X	310.78876	263.47448	85.80944	1.10454	0.0202843	0.23506847	2.6001983	21	7 26.8	20.2
330099 2005 WM_{144}	17.0	X	211.23415	190.63925	208.61021	13.65790	0.2485162	0.22345429	2.6895333	21	5 12.9	21.8
330100 2005 WW_{147}	16.6	X	69.94246	23.44161	70.62223	8.68825	0.2303591	0.20444931	2.8537261	21	3 6.6	19.9
330101 2005 WM_{176}	16.8	X	227.22308	60.14090	321.80989	2.30045	0.0708084	0.21886588	2.7269929	21	5 13.5	20.8
330102 2005 WV_{183}	16.2	X	200.68551	10.76135	72.13895	22.63184	0.0399790	0.22573612	2.6713780	21	7 2.4	20.2
330103 2005 WD_{189}	16.6	X	103.54245	333.87178	113.23031	3.12041	0.2014692	0.20976583	2.8053015	21	4 5.8	20.6
330104 2005 WF_{189}	16.5	X	32.12904	5.61146	98.81709	9.01590	0.2303744	0.19908995	2.9047125	21	—	—
330105 2005 WV_{194}	16.3	X	346.34828	142.31495	212.02202	14.68293	0.1528221	0.24128283	2.5553581	21	9 22.8	19.0
330106 2005 WG_{203}	16.7	X	224.20792	308.57879	76.36307	6.26241	0.1311266	0.21982795	2.7190307	21	5 11.9	20.9
330107 2005 XT	16.6	X	301.91008	221.05468	167.12796	7.82443	0.1995361	0.23775913	2.5805439	21	8 10.1	19.5
330108 2005 XT_{6}	16.8	X	355.89072	65.98545	246.63124	4.77922	0.1133264	0.23272146	2.6176511	21	8 8.8	19.6
330109 2005 XZ_{15}	16.4	X	141.79762	349.64928	79.25551	8.41603	0.0784021	0.21451990	2.7637006	21	4 13.1	20.5
330110 2005 XU_{29}	17.0	X	269.10287	35.92946	76.64842	24.27177	0.0696688	0.36566869	1.9367677	21	12 5.8	18.3
330111 2005 XF_{30}	16.5	X	70.57194	62.19733	216.84052	5.78565	0.1925484	0.24385269	2.5373732	21	11 1.9	20.2
330112 2005 XS_{36}	16.1	X	16.76976	51.16183	299.38437	3.44903	0.2687781	0.24364408	2.5388213	21	12 6.6	18.8
330113 2005 XB_{41}	16.9	X	339.63571	89.98913	253.10725	13.75700	0.1404849	0.23863303	2.5742399	21	8 17.6	19.9
330114 2005 XZ_{54}	17.3	X	227.14063	312.99112	56.57705	4.31698	0.0967371	0.22024549	2.7155931	21	4 27.1	21.2
330115 2005 XK_{63}	17.3	X	129.68550	229.98222	289.89213	2.65791	0.1554321	0.22354761	2.6887847	21	7 28.9	21.4
330116 2005 XX_{84}	17.2	X	302.98104	313.08640	106.93221	23.65195	0.0883659	0.36508958	1.9388152	21	11 22.1	19.2
330117 2005 XC_{107}	16.8	X	338.10470	322.48953	146.25127	5.50090	0.1306735	0.17990623	3.1076964	21	—	—
330118 2005 XA_{112}	17.6	X	131.60738	325.90014	120.02032	1.01267	0.0409660	0.21512493	2.7585163	21	4 14.6	21.5
330119 2005 YL	16.4	X	233.62011	114.43845	264.32874	4.71144	0.0392116	0.22020022	2.7159653	21	5 19.9	20.2
330120 2005 YU_{20}	16.7	X	271.38857	254.72074	95.15480	3.65079	0.0966730	0.21986699	2.7187088	21	5 22.7	20.5
330121 2005 YT_{24}	16.1	X	330.56064	151.31703	105.69462	10.07437	0.1074365	0.21068621	2.7971256	21	4 14.8	19.8
330122 2005 YJ_{25}	17.0	X	243.54169	250.87198	131.08011	2.21083	0.1604981	0.22103894	2.7090905	21	5 24.8	21.2
330123 2005 YO_{35}	16.8	X	64.24749	198.29319	270.69458	5.35269	0.0095978	0.20290998	2.8681407	21	2 12.0	20.8
330124 2005 YZ_{44}	16.6	X	161.90448	273.47073	129.77038	4.94687	0.1042516	0.20991499	2.8039725	21	4 4.0	20.9
330125 2005 YP_{48}	16.7	X	125.65534	336.96556	111.84420	4.68605	0.0659340	0.20859222	2.8158141	21	4 16.8	20.7
330126 2005 YQ_{57}	16.9	X	247.10121	251.17262	95.70891	4.50567	0.0978040	0.21503344	2.7592987	21	4 21.7	21.0
330127 2005 YW_{74}	16.3	X	351.13261	102.91756	92.46883	15.83594	0.0942112	0.20436387	2.8545214	21	2 26.9	20.1
330128 2005 YT_{81}	16.5	X	20.78684	76.61496	272.65261	3.46887	0.2557856	0.24148432	2.5539365	21	12 8.7	19.4
330129 2005 YN_{83}	15.9	X	321.71631	181.54686	119.06504	14.27152	0.1295117	0.21715644	2.7412853	21	5 25.9	19.5
330130 2005 YO_{84}	15.3	X	120.45044	241.45351	96.44465	11.70330	0.0526613	0.19159339	2.9799962	21	—	—
330131 2005 YE_{98}	16.0	X	282.88066	343.09276	77.97929	11.09434	0.0741647	0.17459820	3.1703670	21	9 16.7	20.5
330132 2005 YM_{108}	17.0	X	303.09905	236.14056	128.13375	4.37555	0.2381968	0.23086335	2.6316778	21	7 2.2	20.1
330133 2005 YS_{109}	16.5	X	139.49257	324.93412	144.36471	4.23342	0.0484666	0.21526262	2.7573399	21	5 26.4	20.4
330134 2005 YJ_{126}	16.9	X	214.51152	281.04110	72.01785	5.33334	0.0752880	0.20973826	2.8055474	21	3 27.9	21.1
330135 2005 YH_{137}	17.0	X	268.87076	358.66142	340.50321	2.43908	0.0479798	0.21639783	2.7476882	21	5 10.9	20.8
330136 2005 YW_{144}	16.7	X	140.69368	312.07220	108.61722	3.59109	0.0449493	0.20572280	2.8419369	21	3 27.5	20.7
330137 2005 YW_{151}	16.5	X	59.03576	83.84431	76.34531	5.47229	0.0121036	0.21006313	2.8026541	21	4 15.0	20.3
330138 2005 YN_{172}	17.3	X	70.80169	114.53150	236.88808	19.16426	0.1089872	0.37838155	1.8931401	21	—	—
330139 2005 YK_{188}	16.8	X	269.48207	266.25726	109.84567	5.84536	0.1346985	0.22207404	2.7006658	21	6 18.3	20.5
330140 2005 YV_{188}	16.6	X	173.75969	299.30297	104.69367	4.82406	0.0976373	0.20988569	2.8042334	21	4 17.0	20.9
330141 2005 YD_{200}	15.7	X	281.76238	224.21072	105.96992	13.01209	0.0963371	0.21667313	2.7453603	21	5 14.1	19.7
330142 2005 YL_{241}	16.7	X	344.93102	238.20117	345.18798	5.00146	0.0540190	0.20858508	2.8158783	21	3 22.6	20.3
330143 2005 YG_{266}	16.2	X	48.00676	23.87166	125.63080	15.99263	0.0818516	0.20453649	2.8529151	21	3 27.4	20.0
330144 2006 AM_{6}	15.8	X	306.12218	55.15115	95.78674	11.32569	0.2712534	0.18224239	3.0810810	21	—	—
330145 2006 AB_{30}	16.6	X	336.36469	125.55584	150.37522	3.99817	0.0514400	0.21459862	2.7630247	21	5 21.3	20.1
330146 2006 AG_{31}	16.4	X	349.95125	248.58207	92.35636	12.86164	0.1890920	0.23373343	2.6100900	21	9 21.9	19.0
330147 2006 AT_{44}	16.2	X	266.20755	232.16322	111.50890	7.07223	0.0665886	0.21590233	2.7518906	21	5 14.1	20.1
330148 2006 AQ_{69}	16.0	X	327.27178	167.05669	92.01077	10.19576	0.1043213	0.20910344	2.8112228	21	4 13.3	19.7
330149 2006 AC_{77}	16.6	X	81.31600	89.18546	330.64634	5.59216	0.0658399	0.19709898	2.9242408	21	1 14.1	20.5
330150 2006 AD_{80}	15.7	X	293.02194	47.77173	149.74308	19.17751	0.1698199	0.18472229	3.0534432	21	—	—
330151 2006 BP_{5}	15.5	X	325.35930	317.08896	150.25209	10.76388	0.2165359	0.18111635	3.0938383	21	—	—
330152 2006 BY_{22}	16.2	X	340.60496	185.85734	151.03892	9.81418	0.0403056	0.21955049	2.7213210	21	8 19.6	19.6
330153 2006 BX_{29}	16.7	X	135.74512	307.04183	90.23098	3.22227	0.0958312	0.20075081	2.8886695	21	2 27.0	20.8
330154 2006 BA_{35}	17.0	X	82.48239	93.43902	5.49242	1.75518	0.0262424	0.20135340	2.8829033	21	2 27.3	20.8
330155 2006 BY_{35}	16.9	X	212.15886	297.68143	17.51706	1.73092	0.0620475	0.19813165	2.9140711	21	2 7.1	21.1
330156 2006 BR_{38}	16.7	X	303.72523	34.89299	138.04871	2.47374	0.1205471	0.18504275	3.0499169	21	—	—
330157 2006 BJ_{54}	16.1	X	286.36142	84.53120	149.30126	8.25482	0.0477068	0.19158578	2.9800750	21	1 23.3	20.4
330158 2006 BX_{55}	15.7	X	298.51237	285.68075	275.03780	8.22011	0.0661546	0.18976766	2.9990791	21	—	—
330159 2006 BO_{59}	16.2	X	212.23484	287.46449	99.85326	5.09990	0.0782585	0.21322654	2.7748651	21	5 6.0	20.3
330160 2006 BN_{78}	15.7	X	249.17586	69.84903	140.16643	17.29438	0.1813526	0.17905079	3.1175868	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
330161 2006 BQ_{123}	16.0	X	137.72501	208.51187	150.59028	10.19675	0.0437603	0.18919548	3.0051227	21	1 7.8	20.3
330162 2006 BR_{133}	16.8	X	172.56539	111.32455	351.21862	2.50888	0.0796740	0.21389738	2.7690602	21	6 26.4	20.8
330163 2006 BS_{139}	16.4	X	79.00472	298.84535	155.31067	10.81971	0.0892844	0.19756040	2.9196858	21	2 24.9	20.3
330164 2006 BS_{141}	16.2	X	313.82785	178.03495	109.23532	4.64050	0.0601968	0.21143337	2.7905321	21	5 3.7	19.9
330165 2006 BA_{142}	15.8	X	314.82826	114.86214	323.32231	8.50261	0.0555869	0.17607995	3.1525557	21	11 13.8	20.1
330166 2006 BR_{147}	16.3	X	330.88005	347.48228	167.47151	5.43389	0.1610191	0.18785939	3.0193545	21	—	—
330167 2006 BO_{155}	16.2	X	253.15731	116.66184	122.88358	5.51930	0.1134687	0.18577984	3.0418444	21	—	—
330168 2006 BA_{204}	16.3	X	312.54870	54.08679	131.23440	10.22847	0.0433589	0.19049753	2.9914137	21	—	—
330169 2006 BS_{206}	16.3	X	287.02347	94.90971	143.90123	6.34773	0.0123352	0.19729448	2.9223088	21	2 3.2	20.4
330170 2006 BC_{210}	16.5	X	295.32643	60.87595	119.89276	5.62747	0.1141106	0.18466110	3.0541177	21	—	—
330171 2006 BW_{211}	16.7	X	315.47800	22.67986	126.70722	3.94553	0.2380571	0.18343057	3.0677614	21	—	—
330172 2006 BY_{219}	16.4	X	250.88890	126.03452	275.91142	2.87863	0.1172500	0.22710340	2.6606452	21	7 2.2	20.2
330173 2006 BY_{258}	16.3	X	51.00040	303.91454	133.90337	6.22500	0.2053772	0.19189568	2.9768657	21	1 2.3	19.3
330174 2006 CZ_{8}	16.5	X	260.66497	227.65225	119.74205	2.10438	0.0934903	0.21041397	2.7995378	21	5 7.5	20.4
330175 2006 CY_{14}	15.5	X	181.70192	88.32604	140.86767	19.37985	0.0775508	0.17525767	3.1624090	21	12 9.7	20.6
330176 2006 CD_{40}	15.8	X	259.34620	33.59896	141.23329	10.24948	0.0237759	0.17646969	3.1479124	21	—	—
330177 2006 CJ_{67}	16.4	X	139.34953	219.31294	167.43012	11.34925	0.1239538	0.19708329	2.9243960	21	2 19.5	20.8
330178 2006 DD_{6}	15.8	X	319.27842	145.80061	24.82379	8.39731	0.0477306	0.18791561	3.0187522	21	—	—
330179 2006 DW_{24}	16.2	X	266.04852	112.41839	141.33116	3.75506	0.0277079	0.19131834	2.9828516	21	1 26.5	20.3
330180 2006 DA_{25}	16.9	X	260.05093	162.32929	34.82374	1.19293	0.1794691	0.17894888	3.1187704	21	—	—
330181 2006 DQ_{47}	16.5	X	211.47938	287.49079	330.22636	5.16351	0.1383338	0.18097378	3.0954630	21	—	—
330182 2006 DM_{51}	16.6	X	232.79278	203.77256	115.73722	3.33673	0.0516590	0.20122183	2.8841598	21	3 7.2	20.7
330183 2006 DJ_{53}	16.4	X	241.00730	85.59891	162.24616	8.41214	0.1196181	0.18251076	3.0780599	21	—	—
330184 2006 DF_{56}	15.7	X	337.39878	80.78679	17.18972	8.71746	0.0438155	0.17784067	3.1317133	21	—	—
330185 2006 DV_{64}	16.4	X	307.38277	69.14014	105.07935	4.28441	0.1946274	0.18512015	3.0490667	21	—	—
330186 2006 DD_{76}	16.5	X	266.91073	107.41452	142.07553	6.41733	0.0489027	0.19033402	2.9931267	21	1 20.1	20.8
330187 2006 DW_{76}	16.4	X	33.01088	309.48225	133.51853	3.18436	0.0654163	0.18524834	3.0476599	21	—	—
330188 2006 DC_{78}	16.4	X	222.49381	191.66213	68.62147	1.39690	0.1124614	0.18298290	3.0727628	21	—	—
330189 2006 DE_{78}	16.6	X	217.40576	145.26800	124.37216	2.20092	0.1195940	0.18359162	3.0659670	21	—	—
330190 2006 DH_{78}	16.9	X	338.45225	137.99358	11.34530	1.31928	0.1138118	0.18688998	3.0297865	21	—	—
330191 2006 DC_{83}	16.0	X	303.86060	325.75800	174.22705	11.12380	0.0786520	0.17797571	3.1301290	21	—	—
330192 2006 DH_{87}	16.0	X	154.32053	221.34131	113.01273	2.97050	0.0805893	0.18347593	3.0672557	21	1 3.1	20.6
330193 2006 DO_{87}	15.8	X	190.15807	179.01992	157.38960	10.13257	0.0118587	0.19092584	2.9869383	21	2 6.8	20.0
330194 2006 DD_{90}	16.4	X	344.41787	303.47235	170.98514	10.08619	0.0421691	0.17955512	3.1117463	21	—	—
330195 2006 DD_{115}	16.1	X	296.46802	160.71238	6.84761	4.90789	0.1108812	0.18019886	3.1043310	21	—	—
330196 2006 DA_{173}	16.4	X	182.88810	132.68310	158.23415	9.99281	0.1016189	0.17970222	3.1100479	21	—	—
330197 2006 DQ_{190}	16.5	X	274.37790	88.71627	78.07672	3.26102	0.1062132	0.17524432	3.1625695	21	—	—
330198 2006 EC_{9}	16.3	X	229.88161	122.76819	164.88977	12.69860	0.1124465	0.18741257	3.0241517	21	1 21.9	21.2
330199 2006 ET_{12}	15.7	X	283.94245	328.41153	168.85240	11.71376	0.1078165	0.17433078	3.1736084	21	12 12.1	20.0
330200 2006 EK_{44}	15.4	X	284.89554	86.58476	92.03469	16.81913	0.2016008	0.17835816	3.1256528	21	—	—
330201 2006 FT_{5}	16.7	X	202.79690	80.55068	182.92281	8.19187	0.1822308	0.17538796	3.1608426	21	—	—
330202 2006 FG_{13}	15.7	X	341.59047	286.25161	191.76343	15.41703	0.0613789	0.17712117	3.1401887	21	—	—
330203 2006 FB_{15}	16.4	X	245.65079	72.06026	109.49706	1.31598	0.1334131	0.17126926	3.2113164	21	12 11.5	21.1
330204 2006 FE_{16}	16.1	X	219.31631	238.23508	4.87481	5.16194	0.1369655	0.17607536	3.1526105	21	—	—
330205 2006 FR_{16}	15.6	X	269.35572	108.24230	91.96311	7.46802	0.1418743	0.17842265	3.1248995	21	—	—
330206 2006 FE_{38}	15.6	X	174.83572	300.79679	20.92755	9.72615	0.1145141	0.18277349	3.0751094	21	1 14.1	20.5
330207 2006 FG_{40}	16.5	X	289.22287	113.62956	35.78331	4.73972	0.1439818	0.17607523	3.1526121	21	12 29.9	20.5
330208 2006 FW_{46}	15.6	X	291.02999	97.26611	68.04531	9.08393	0.1478247	0.17910028	3.1170124	21	—	—
330209 2006 FM_{47}	15.4	X	73.32277	351.64204	97.93881	11.25198	0.0988134	0.19248573	2.9707791	21	2 16.4	19.3
330210 2006 FS_{50}	15.5	X	258.41897	126.32553	70.30126	27.96589	0.2259327	0.17695403	3.1421656	21	12 30.3	20.1
330211 2006 GC_{19}	15.6	X	41.49950	247.34801	187.53188	10.63965	0.0132668	0.17784414	3.1316726	21	—	—
330212 2006 GD_{21}	16.2	X	229.77711	103.33313	127.83756	3.02251	0.1554155	0.17344511	3.1844029	21	—	—
330213 2006 GD_{24}	16.6	X	252.76406	65.82772	163.10410	2.69686	0.1235091	0.17741763	3.1366896	21	—	—
330214 2006 GE_{26}	16.1	X	117.30002	164.31034	172.66905	3.53018	0.0431717	0.17199459	3.2022816	21	—	—
330215 2006 GC_{37}	15.2	X	52.97862	335.72410	34.07535	14.48386	0.0256301	0.16841821	3.2474566	21	12 26.7	20.0
330216 2006 GB_{38}	15.2	X	262.20855	106.57915	72.36587	26.68811	0.1988623	0.17248872	3.1961630	21	12 17.2	19.6
330217 2006 GK_{39}	15.1	X	252.89255	136.14675	77.17642	28.41738	0.1549247	0.17669878	3.1451909	21	—	—
330218 2006 HX_{6}	14.9	X	312.64474	357.97375	123.26488	29.67102	0.1412767	0.17525171	3.1624806	21	—	—
330219 2006 HB_{12}	15.9	X	179.34837	189.27863	78.28048	8.79906	0.0067973	0.17113254	3.2130266	21	—	—
330220 2006 HZ_{42}	15.7	X	194.63871	203.31358	43.55285	21.43502	0.0224614	0.16858337	3.2453352	21	—	—
330221 2006 HC_{49}	15.7	X	207.31143	102.05528	195.31109	9.24112	0.1077370	0.18237813	3.0795521	21	1 12.8	20.7
330222 2006 HA_{74}	15.7	X	321.20215	62.77995	62.74072	16.61932	0.0815803	0.17107142	3.2137918	21	—	—
330223 2006 HV_{77}	15.7	X	226.17000	193.16859	23.65675	12.32770	0.0968296	0.17277777	3.1925973	21	—	—
330224 2006 HQ_{115}	15.9	X	307.66044	267.76811	213.20906	13.42040	0.1733095	0.17200623	3.2021371	21	12 19.0	19.8
330225 2006 JL_{26}	15.2	X	187.93467	41.11728	251.89453	12.84576	0.1767475	0.17225688	3.1990301	21	—	—
330226 2006 JU_{26}	15.7	X	165.57008	99.67537	221.22773	12.62299	0.1408838	0.17485881	3.1672161	21	1 3.7	20.9
330227 2006 JC_{49}	15.3	X	195.66115	220.04164	41.20087	9.64440	0.0610469	0.17418766	3.1753465	21	—	—
330228 2006 KV_{3}	15.7	X	215.30445	41.48832	207.59134	11.34683	0.0325070	0.17577383	3.1562150	21	—	—
330229 2006 KZ_{11}	15.7	X	320.96522	351.22217	132.59900	13.88741	0.1634409	0.17399387	3.1777038	21	—	—
330230 2006 KH_{14}	15.6	X	241.98285	132.98393	80.83831	11.02172	0.0435857	0.17262074	3.1945332	21	—	—
330231 2006 KM_{22}	15.8	X	244.49107	61.63316	204.86121	12.74790	0.2415512	0.17699086	3.1417297	21	1 6.0	21.4
330232 2006 KQ_{44}	15.9	X	126.04866	192.46266	163.28489	16.60183	0.2449861	0.17253596	3.1955795	21	1 17.8	21.0
330233 2006 KV_{86}	18.7	X	193.78555	153.83156	220.05010	37.07496	0.3739824	0.51413839	1.5431780	21	3 2.5	21.9
330234 2006 KJ_{91}	15.7	X	116.92382	190.90420	150.21415	11.44447	0.0275028	0.17221563	3.1995409	21	—	—
330235 2006 KM_{92}	15.4	X	102.89612	140.80081	214.46177	9.22444	0.0391458	0.16939256	3.2349916	21	—	—
330236 2006 KG_{120}	15.6	X	278.23743	24.42437	211.08978	15.67320	0.0169113	0.17867990	3.1218994	21	1 18.9	20.3
330237 2006 MA_{10}	17.5	X	344.97175	239.71887	108.74757	2.28917	0.2021613	0.26729092	2.3867847	21	9 21.7	19.1
330238 2006 PC_{42}	17.5	X	212.13911	173.55414	135.41208	7.09589	0.1439310	0.30030369	2.2084908	21	1 14.1	20.8
330239 2006 QN_{12}	17.6	X	238.28028	278.83175	8.62492	7.05096	0.1938286	0.30415062	2.1898292	21	1 12.8	21.2
330240 2006 QQ_{18}	17.5	X	188.73442	191.46825	130.22914	4.40913	0.1822626	0.29853387	2.2172107	21	1 10.5	20.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
330241 2006 QG_{55}	18.0	X	226.45033	21.24031	297.38994	2.11189	0.1924923	0.30658746	2.1782102	21	2 8.2	21.3
330242 2006 QK_{83}	17.8	X	123.54025	216.06344	159.47067	5.86545	0.1841963	0.29316917	2.2441774	21	1 7.9	20.3
330243 2006 QE_{93}	17.8	X	210.63769	163.58436	170.69017	7.24691	0.2231510	0.30486993	2.1863834	21	2 14.1	21.5
330244 2006 QB_{94}	17.6	X	80.61544	170.77213	127.92266	4.22937	0.1392512	0.27525875	2.3404999	21	12 6.7	20.9
330245 2006 QZ_{99}	17.5	X	161.40662	94.28200	241.78417	2.51028	0.2066474	0.29441702	2.2378318	21	1 4.7	20.7
330246 2006 QA_{126}	17.6	X	171.95312	270.28766	79.34270	4.30107	0.1791993	0.29860631	2.2168522	21	1 30.6	20.7
330247 2006 QT_{183}	16.3	X	183.64626	282.18550	13.94741	11.79545	0.1705831	0.22707303	2.6608824	21	—	—
330248 2006 RO_{4}	17.6	X	155.29831	201.66750	177.19212	6.88947	0.1337910	0.29752289	2.2222306	21	2 12.6	20.6
330249 2006 RA_{10}	16.8	X	125.80416	166.41078	215.02779	9.08670	0.2044081	0.29210257	2.2496371	21	1 20.5	19.6
330250 2006 RF_{19}	16.5	X	186.04527	295.14894	35.47891	8.22348	0.2785613	0.29698303	2.2249228	21	1 28.4	20.3
330251 2006 RL_{38}	17.6	X	51.21682	111.75665	270.74712	5.25346	0.1547559	0.27902379	2.3193977	21	—	—
330252 2006 RZ_{39}	14.8	X	316.23977	319.56634	47.89040	5.49882	0.3181152	0.12479378	3.9658909	21	7 15.7	19.4
330253 2006 RF_{43}	18.2	X	152.03185	181.97839	154.34689	1.47411	0.1666147	0.29052623	2.2577672	21	—	—
330254 2006 RA_{46}	17.7	X	322.23572	47.69644	34.79004	5.10259	0.1280008	0.27063467	2.3670845	21	12 26.9	19.9
330255 2006 RZ_{52}	17.4	X	333.39701	240.07296	172.99983	2.61318	0.1971740	0.26649601	2.3915286	21	12 8.2	19.1
330256 2006 RX_{89}	17.9	X	210.46601	73.46448	221.35982	2.21816	0.1707393	0.29494389	2.2351660	21	—	—
330257 2006 RX_{93}	17.6	X	212.89727	357.30044	264.78944	1.69633	0.0711140	0.28658281	2.2784314	21	—	—
330258 2006 RL_{102}	17.7	X	214.18242	288.83049	38.65461	5.71085	0.1750305	0.30260542	2.1972775	21	2 11.7	21.1
330259 2006 RL_{118}	17.9	X	240.69377	306.33923	217.12221	0.73471	0.1217456	0.27200736	2.3591141	21	12 3.8	20.5
330260 2006 SB_{7}	16.9	X	318.38198	249.57968	4.23474	21.47170	0.3940494	0.31172300	2.1542205	21	1 29.3	20.6
330261 2006 SZ_{7}	16.6	X	351.15293	209.54126	234.71948	5.75894	0.0846037	0.27763515	2.3271252	21	—	—
330262 2006 SN_{14}	18.3	X	209.88385	151.23874	205.47898	6.28282	0.2342572	0.30506268	2.1854623	21	3 12.9	22.0
330263 2006 SU_{22}	18.1	X	264.01946	198.65183	121.81019	6.00934	0.2426912	0.31113818	2.1569190	21	3 14.8	21.5
330264 2006 SR_{55}	17.6	X	166.73456	212.55425	152.95952	6.49104	0.1998047	0.29658537	2.2269112	21	2 15.5	20.7
330265 2006 SJ_{57}	17.3	X	108.37172	162.41187	212.73870	5.44280	0.1457188	0.28740781	2.2740692	21	—	—
330266 2006 SR_{63}	17.6	X	41.23779	256.18126	135.22738	3.03900	0.2169825	0.27729991	2.3290004	21	—	—
330267 2006 SE_{68}	18.0	X	191.50074	161.53698	157.98562	3.57681	0.1946504	0.29647099	2.2274839	21	1 11.2	21.4
330268 2006 SV_{68}	18.2	X	278.35342	317.09316	169.86869	2.76211	0.0642529	0.27358851	2.3500160	21	12 18.3	20.8
330269 2006 SD_{76}	17.2	X	124.26161	304.01195	48.67658	2.96828	0.0884467	0.28608517	2.2810728	21	—	—
330270 2006 SD_{96}	17.6	X	307.84569	257.56777	169.89503	2.49425	0.1675220	0.26343736	2.4100042	21	11 1.5	19.7
330271 2006 SE_{119}	17.1	X	52.02916	285.70547	141.16353	10.20646	0.1673354	0.28586898	2.2822227	21	—	—
330272 2006 SY_{130}	17.9	X	192.79129	128.55724	196.05332	5.42030	0.1992432	0.29580767	2.2308127	21	1 18.3	21.4
330273 2006 SM_{136}	17.2	X	202.81685	222.20747	82.52183	7.86604	0.1567055	0.29781184	2.2207930	21	1 1.2	20.5
330274 2006 SK_{147}	17.8	X	275.71306	243.96872	204.07600	2.82692	0.1696838	0.26204126	2.4185567	21	10 1.2	20.6
330275 2006 SE_{203}	17.9	X	66.88289	241.43396	179.92183	5.54690	0.1205538	0.28807337	2.2705652	21	—	—
330276 2006 SU_{208}	17.4	X	241.87228	266.18989	46.24263	4.65272	0.1220034	0.30377136	2.1916515	21	2 19.2	20.5
330277 2006 SM_{217}	17.5	X	4.37915	295.61694	119.20481	3.31223	0.1483228	0.27386307	2.3484450	21	—	—
330278 2006 SY_{255}	17.9	X	201.15383	73.08719	242.46574	2.66635	0.1365271	0.29559094	2.2319029	21	1 12.1	21.1
330279 2006 SH_{274}	17.7	X	152.41719	324.64104	92.65265	2.86133	0.1860009	0.23417853	2.6067817	21	4 15.1	21.9
330280 2006 SZ_{288}	17.4	X	75.30407	313.35210	63.30572	7.34756	0.1381550	0.28228256	2.3015126	21	—	—
330281 2006 SR_{294}	18.4	X	259.18682	95.03005	200.94678	4.03029	0.1858412	0.30539821	2.1838613	21	2 8.0	21.7
330282 2006 SF_{300}	17.1	X	323.76875	313.30434	119.42378	6.71023	0.2257746	0.26811512	2.3818908	21	12 18.7	18.6
330283 2006 SG_{304}	16.9	X	12.03779	208.82488	245.46048	5.58913	0.0610045	0.28384624	2.2930523	21	—	—
330284 2006 SF_{354}	17.5	X	188.74229	298.97125	48.37367	6.48543	0.2231067	0.29843133	2.2177186	21	2 17.1	21.1
330285 2006 SA_{358}	17.5	X	188.70701	68.08492	20.79546	8.04474	0.1701021	0.24290264	2.5439851	21	6 25.1	21.7
330286 2006 SP_{391}	17.3	X	315.24452	266.50206	201.71011	6.21794	0.0643285	0.27329151	2.3517182	21	—	—
330287 2006 SP_{394}	17.4	X	210.92869	128.46910	38.18851	1.93992	0.1264184	0.26485620	2.4013895	21	10 30.4	20.8
330288 2006 SN_{401}	17.3	X	70.80815	120.83621	223.01363	6.08493	0.1234087	0.27043635	2.3682416	21	—	—
330289 2006 SY_{412}	16.8	X	355.50287	146.43787	279.25201	6.70623	0.0888234	0.27351250	2.3504513	21	—	—
330290 2006 TV_{6}	17.5	X	315.93491	326.09305	81.46124	5.66389	0.1857424	0.25977759	2.4325863	21	10 18.6	19.5
330291 2006 TT_{16}	17.9	X	356.96601	219.20464	182.66854	0.96407	0.1842070	0.26912422	2.3759330	21	—	—
330292 2006 TQ_{20}	18.0	X	214.68790	273.36093	44.20429	2.27666	0.1941813	0.29747849	2.2224517	21	1 30.1	21.5
330293 2006 TK_{22}	17.8	X	191.56404	331.40984	94.53623	2.35798	0.1897441	0.24049367	2.5609452	21	5 29.5	22.0
330294 2006 TZ_{33}	17.7	X	324.07482	311.56920	110.97433	3.43572	0.1981440	0.26644490	2.3918344	21	12 1.0	19.4
330295 2006 TQ_{38}	16.9	X	4.85240	217.38585	210.85920	6.12766	0.0838325	0.27376023	2.3490332	21	—	—
330296 2006 TQ_{44}	17.7	X	83.92944	319.59311	37.49388	1.95354	0.1733639	0.27770892	2.3267131	21	—	—
330297 2006 TX_{56}	17.6	X	75.34639	248.14973	131.26411	2.79539	0.2282403	0.28036943	2.3119704	21	—	—
330298 2006 TH_{63}	18.0	X	224.89744	145.97897	179.94046	5.14791	0.2235546	0.30271915	2.1967272	21	2 15.5	21.5
330299 2006 TM_{63}	17.4	X	172.78460	120.51723	233.79851	5.99543	0.1902946	0.29631306	2.2282753	21	2 4.2	20.9
330300 2006 TO_{73}	17.5	X	192.09723	215.77879	136.59997	9.13655	0.1778824	0.29907506	2.2145352	21	2 22.1	20.9
330301 2006 TE_{74}	17.3	X	352.10508	339.24063	71.32265	6.28159	0.1272703	0.26967627	2.3726894	21	—	—
330302 2006 TR_{74}	17.2	X	205.19982	298.61353	15.36867	6.99707	0.1745708	0.29559647	2.2318751	21	1 18.1	20.7
330303 2006 TW_{74}	15.1	X	343.68894	10.44394	319.13094	1.62430	0.2554514	0.12346054	3.9943912	21	7 30.1	19.3
330304 2006 TE_{75}	17.2	X	307.61313	26.28663	36.55926	6.11952	0.1216575	0.26295399	2.4129568	21	10 28.3	19.5
330305 2006 TA_{76}	17.8	X	168.73788	266.86711	71.48237	1.51269	0.1765308	0.29273176	2.2464124	21	1 12.8	21.0
330306 2006 TH_{92}	17.2	X	322.90942	247.93351	190.19368	5.99726	0.0699653	0.26854821	2.3793292	21	12 19.2	19.9
330307 2006 TM_{124}	17.6	X	182.63612	236.77391	76.64015	4.40184	0.1639309	0.29016228	2.2596547	21	—	—
330308 2006 TO_{128}	17.6	X	266.37562	112.94729	33.99946	6.52889	0.0664837	0.27305463	2.3530782	21	12 27.4	20.3
330309 2006 UL_{4}	17.4	X	337.05930	192.39315	280.59361	1.20902	0.0169114	0.27934654	2.3176109	21	—	—
330310 2006 UN_{5}	17.2	X	144.60352	208.33016	122.24534	6.73019	0.1967245	0.28731213	2.2745740	21	—	—
330311 2006 UV_{5}	17.3	X	229.51657	17.49999	198.95129	6.26259	0.0844508	0.27757266	2.3274745	21	—	—
330312 2006 UR_{31}	17.6	X	291.19558	78.25835	23.68749	3.68699	0.0874857	0.26630691	2.3926606	21	11 28.5	20.2
330313 2006 UV_{31}	17.6	X	228.30059	251.85867	210.12651	4.67219	0.1452777	0.25303412	2.4756162	21	8 20.7	21.3
330314 2006 UF_{35}	17.9	X	306.06159	29.08990	37.56569	4.91975	0.0177343	0.26430697	2.4047152	21	11 7.4	20.8
330315 2006 UL_{37}	17.4	X	181.05416	245.01981	22.17888	3.10746	0.0734062	0.27831031	2.3233601	21	—	—
330316 2006 UZ_{41}	17.4	X	79.28317	304.67362	39.29831	3.76966	0.0106013	0.27205757	2.3588238	21	—	—
330317 2006 UK_{55}	17.2	X	246.88293	273.73365	224.39486	9.63530	0.1273981	0.26201952	2.4186904	21	11 5.1	20.1
330318 2006 UM_{69}	15.8	X	343.75839	275.07817	79.87949	10.67013	0.1367476	0.19146076	2.9813722	21	9 21.0	19.4
330319 2006 UJ_{87}	17.0	X	161.23172	40.91488	231.03907	5.43237	0.0953177	0.27416270	2.3467336	21	—	—
330320 2006 UX_{90}	17.7	X	179.19681	53.76857	272.11445	1.68455	0.1980558	0.29032441	2.2588133	21	1 9.4	21.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
330321 2006 UV_{97}	18.0	X	261.29630	257.27443	185.24131	5.32782	0.1443704	0.25594605	2.4568035	21	9 5.0	21.0
330322 2006 UB_{102}	17.4	X	156.06307	252.32845	162.03495	4.76247	0.1917262	0.23245172	2.6196758	21	4 15.5	21.7
330323 2006 UB_{108}	17.1	X	201.45066	236.39912	70.83781	7.76586	0.1949906	0.29134343	2.2535432	21	1 6.5	20.6
330324 2006 US_{120}	17.9	X	46.55236	195.79691	99.08865	2.50005	0.1847912	0.26276677	2.4141028	21	10 27.0	20.8
330325 2006 UP_{121}	17.7	X	242.90361	110.53446	74.52318	2.44696	0.1362809	0.27393288	2.3480460	21	—	—
330326 2006 UK_{163}	17.7	X	199.44576	169.92293	188.32215	6.50649	0.0084223	0.29954043	2.2122409	21	2 27.3	20.2
330327 2006 UZ_{179}	17.0	X	306.36729	309.59238	102.47033	5.82313	0.1237603	0.25999688	2.4312183	21	10 12.5	19.5
330328 2006 UJ_{180}	17.1	X	91.69344	294.79256	82.28723	7.51935	0.2043454	0.28333369	2.2958168	21	—	—
330329 2006 UO_{182}	17.4	X	66.01116	213.88531	159.14007	6.24108	0.2331217	0.27707255	2.3302743	21	—	—
330330 2006 UA_{186}	17.5	X	216.32544	30.94321	292.83518	5.31211	0.2011816	0.30100276	2.2050701	21	2 6.1	20.9
330331 2006 UJ_{186}	17.3	X	134.42073	60.52166	310.93047	4.21548	0.1748919	0.29123409	2.2541073	21	1 17.0	19.8
330332 2006 UZ_{192}	17.1	X	252.39974	17.73426	343.59517	5.96899	0.2537347	0.24350391	2.5397956	21	4 25.1	21.5
330333 2006 UZ_{208}	17.8	X	195.87798	161.26048	164.07749	1.91403	0.1964797	0.29500393	2.2348627	21	1 22.8	21.3
330334 2006 UV_{219}	16.5	X	172.87190	63.15424	212.59704	23.88940	0.2245529	0.28302062	2.2975096	21	—	—
330335 2006 UC_{232}	17.5	X	258.56573	103.04926	256.36160	0.52036	0.1186664	0.24142858	2.5543295	21	5 14.8	21.2
330336 2006 UG_{263}	17.8	X	204.78475	354.41757	145.87274	1.74524	0.1130986	0.25461346	2.4653683	21	9 19.8	21.4
330337 2006 UT_{269}	17.4	X	144.99226	49.58496	264.72770	6.23240	0.0523151	0.27958754	2.3162788	21	—	—
330338 2006 UO_{272}	17.4	X	157.75713	75.83961	53.96412	6.06279	0.1767138	0.24207950	2.5497486	21	7 20.3	21.6
330339 2006 UG_{280}	17.9	X	229.98389	59.15037	55.39287	4.60601	0.1271168	0.25451691	2.4659918	21	9 14.9	21.3
330340 2006 UG_{325}	16.3	X	272.67183	207.55347	232.68866	17.08584	0.1244525	0.18767914	3.0212874	21	9 8.3	20.8
330341 2006 UN_{331}	16.1	X	324.10384	113.09830	307.47338	8.90254	0.1835293	0.26366887	2.4085933	21	11 23.7	18.2
330342 2006 UQ_{331}	17.1	X	281.21598	253.55952	174.45465	12.34479	0.2082766	0.25570540	2.4583447	21	9 2.7	20.1
330343 2006 UE_{360}	17.3	X	169.47190	208.23538	25.78184	10.06728	0.1671231	0.27085547	2.3657979	21	12 8.2	21.1
330344 2006 VJ_{10}	17.4	X	228.59217	267.92645	227.45243	5.84288	0.0897990	0.25884811	2.4384062	21	10 12.6	20.8
330345 2006 VD_{12}	17.2	X	309.69542	335.97596	87.25017	3.24078	0.1866868	0.26037250	2.4288796	21	10 27.8	19.1
330346 2006 VZ_{14}	17.1	X	61.81961	61.47923	2.26562	3.33229	0.0722969	0.21541644	2.7560271	21	—	—
330347 2006 VE_{20}	17.2	X	228.73135	50.16772	239.21066	7.13891	0.2369737	0.29327989	2.2436126	21	1 6.4	21.0
330348 2006 VU_{31}	17.4	X	125.27134	101.11798	267.19092	5.36728	0.1988104	0.28680894	2.2772337	21	1 4.6	20.0
330349 2006 VX_{32}	17.6	X	146.38972	218.11846	261.28623	2.28336	0.1026338	0.30809352	2.1711059	21	6 18.8	20.3
330350 2006 VF_{34}	17.4	X	153.49122	193.60599	201.81111	1.66372	0.2159933	0.22866393	2.6485262	21	3 21.3	21.6
330351 2006 VL_{39}	18.0	X	187.68340	267.94707	278.85865	0.48313	0.1272960	0.26051119	2.4280174	21	10 30.5	21.6
330352 2006 VE_{40}	17.6	X	225.73014	99.86327	217.10526	3.57038	0.2260404	0.29861475	2.2168104	21	2 5.5	21.2
330353 2006 VC_{41}	17.8	X	196.73614	260.66519	61.29466	4.61020	0.2319914	0.29391505	2.2403790	21	1 22.6	21.5
330354 2006 VY_{57}	17.7	X	110.28386	154.70375	209.84436	4.28384	0.1706565	0.28260964	2.2997364	21	—	—
330355 2006 VX_{65}	17.4	X	99.98596	130.56203	232.51652	6.06522	0.1289780	0.27947717	2.3168886	21	—	—
330356 2006 VX_{66}	17.6	X	342.85769	318.37855	82.03276	2.52564	0.1801490	0.26502402	2.4003757	21	12 7.1	19.5
330357 2006 VW_{69}	17.0	X	160.68361	165.43339	76.22442	7.32472	0.0759495	0.26465095	2.4026310	21	12 14.0	20.2
330358 2006 VK_{92}	17.2	X	32.94974	209.90194	193.66770	5.95907	0.0644538	0.27266076	2.3553437	21	—	—
330359 2006 VL_{118}	17.5	X	260.89047	39.09442	49.91305	5.30997	0.0383005	0.25598658	2.4565442	21	10 3.7	20.5
330360 2006 VV_{122}	17.0	X	162.48302	216.22383	271.49020	4.47747	0.1374746	0.24204631	2.5499818	21	7 19.2	20.9
330361 2006 VN_{140}	16.5	X	28.31022	198.78613	69.79434	15.84426	0.0626272	0.24542790	2.5265046	21	8 4.2	19.8
330362 2006 VB_{161}	17.7	X	50.41002	205.30833	193.98741	5.02504	0.1118046	0.28120385	2.3073946	21	—	—
330363 2006 VO_{172}	17.6	X	217.66149	8.96042	134.30600	2.50229	0.1289727	0.25668035	2.4521157	21	10 7.4	21.0
330364 2006 VA_{174}	16.0	X	185.32469	334.77590	133.30270	18.30384	0.0964963	0.23173767	2.6250543	21	7 17.4	20.0
330365 2006 WG_{5}	17.3	X	174.15269	137.69994	111.53077	3.10367	0.0848638	0.27089720	2.3655550	21	—	—
330366 2006 WS_{18}	16.6	X	325.59231	346.10914	101.49422	7.25203	0.0634459	0.26864751	2.3787429	21	—	—
330367 2006 WY_{28}	17.5	X	257.51500	221.96042	232.19493	1.05092	0.1445415	0.25471517	2.4647119	21	9 16.4	20.6
330368 2006 WF_{33}	17.4	X	50.31853	223.80679	104.75607	3.93312	0.2402527	0.26741270	2.3860600	21	12 22.0	20.6
330369 2006 WO_{33}	17.1	X	161.75850	173.64795	78.84148	8.07995	0.0814842	0.26930506	2.3748692	21	12 29.7	20.5
330370 2006 WY_{39}	17.3	X	125.11244	76.00393	204.31573	8.11284	0.2260491	0.26906238	2.3762970	21	12 26.6	21.4
330371 2006 WW_{81}	17.3	X	93.39209	288.07547	77.98342	8.68011	0.1423672	0.27826381	2.3236189	21	—	—
330372 2006 WU_{94}	17.5	X	141.99492	243.78385	96.77196	2.82886	0.1853987	0.28535662	2.2849537	21	—	—
330373 2006 WD_{102}	14.8	X	352.13254	226.88147	110.91175	10.53156	0.2826830	0.12412561	3.9801103	21	9 1.9	18.8
330374 2006 WD_{175}	16.6	X	169.63339	128.40197	81.91011	7.96617	0.1472631	0.25825203	2.4421568	21	11 11.8	20.5
330375 2006 WH_{184}	16.6	X	113.52781	16.45359	98.59318	7.42961	0.2076175	0.22351150	2.6890743	21	5 22.5	20.6
330376 2006 WK_{190}	17.1	X	111.21049	231.94723	175.88313	5.36582	0.2386587	0.22097955	2.7095760	21	2 25.7	20.8
330377 2006 WJ_{194}	16.6	X	106.94705	40.33299	111.77188	5.12804	0.1642191	0.22964546	2.6409740	21	6 25.6	20.3
330378 2006 WJ_{198}	16.0	X	43.99677	279.65824	292.36426	13.56170	0.1179601	0.22752059	2.6573917	21	6 11.3	19.2
330379 2006 XU	17.1	X	355.48526	300.05181	87.64590	10.22595	0.1281984	0.26226508	2.4171804	21	12 6.2	19.5
330380 2006 XJ_{4}	16.6	X	140.05360	233.68424	265.66666	8.43096	0.1508678	0.23823926	2.5770756	21	7 12.0	20.6
330381 2006 XG_{8}	17.1	X	33.51508	290.85347	83.03366	11.05211	0.2330754	0.26764129	2.3847012	21	—	—
330382 2006 XL_{9}	16.9	X	107.94572	287.41621	204.23467	11.04666	0.2482023	0.22913000	2.6449334	21	6 10.4	21.1
330383 2006 XF_{15}	16.8	X	185.86320	30.01350	97.60724	3.60211	0.1550729	0.24347985	2.5399629	21	8 12.4	20.9
330384 2006 XC_{16}	16.7	X	137.66768	198.61699	259.14524	4.55732	0.2629544	0.22986055	2.6393263	21	5 26.8	21.0
330385 2006 XP_{17}	16.5	X	219.75740	27.00016	73.70530	8.42791	0.1306369	0.24386377	2.5372963	21	8 15.7	20.4
330386 2006 XR_{36}	16.9	X	91.48049	105.51719	97.64119	14.39877	0.1257878	0.23676507	2.5877618	21	8 12.3	20.6
330387 2006 XK_{47}	16.7	X	23.56719	315.82837	95.67912	9.29841	0.1563319	0.27138532	2.3627176	21	—	—
330388 2006 XS_{51}	17.2	X	311.37832	264.97579	141.62067	5.46703	0.1143427	0.25741866	2.4474248	21	10 13.0	19.7
330389 2006 XQ_{58}	16.6	X	96.74604	289.03302	305.91385	4.84886	0.1047136	0.24464727	2.5318762	21	9 22.5	20.3
330390 2006 YQ_{1}	15.7	X	14.39760	244.54797	319.29367	16.20041	0.1784017	0.21480388	2.7612642	21	3 27.6	18.8
330391 2006 YL_{4}	16.3	X	96.37504	288.82702	271.93018	6.99400	0.0583816	0.23551358	2.5969210	21	7 31.8	19.9
330392 2006 YP_{6}	15.6	X	58.19163	221.83218	299.13014	14.20864	0.1687366	0.21984774	2.7188675	21	4 23.9	19.1
330393 2006 YJ_{14}	17.2	X	161.19500	1.12554	116.76215	3.79122	0.0756841	0.23399641	2.6081341	21	7 3.2	21.0
330394 2006 YP_{14}	17.7	X	78.20296	279.51416	81.44119	5.58025	0.2452693	0.27527657	2.3403989	21	—	—
330395 2006 YE_{22}	17.5	X	140.52916	203.10985	204.98728	3.70548	0.1456068	0.22675475	2.6633717	21	3 17.6	21.3
330396 2006 YO_{32}	17.1	X	50.14439	303.62131	51.97454	5.08087	0.1150602	0.26207039	2.4183774	21	—	—
330397 2006 YT_{38}	17.4	X	45.32454	293.73317	83.59905	3.86879	0.1975168	0.26574586	2.3960270	21	—	—
330398 2006 YO_{52}	16.8	X	184.09138	90.63926	279.22078	3.98841	0.0600913	0.22052613	2.7132888	21	3 9.4	20.7
330399 2006 YO_{55}	17.0	X	116.12528	6.50800	140.52496	5.87628	0.0852867	0.23121376	2.6290182	21	6 19.9	20.7
330400 2007 AM_{6}	16.7	X	217.72065	70.68154	10.80034	3.07412	0.2173892	0.24016723	2.5632652	21	7 10.4	20.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
330401 2007 AG_{25}	16.9	X	216.19638	187.41395	230.27672	3.17320	0.2452045	0.23786350	2.5797890	21	6 7.4	21.2
330402 2007 BT_{13}	16.2	X	35.01624	263.81078	321.97834	10.64489	0.1162843	0.22696160	2.6617532	21	6 15.2	19.3
330403 2007 BA_{16}	16.9	X	102.16866	22.35618	112.67035	4.91630	0.0208494	0.22549638	2.6732711	21	5 8.7	20.4
330404 2007 BJ_{18}	16.9	X	177.86235	145.27992	329.37641	4.73896	0.1113622	0.23652945	2.5894800	21	7 18.9	20.8
330405 2007 BX_{19}	16.6	X	249.23457	0.09653	30.67972	4.11179	0.2026713	0.23977545	2.5660566	21	6 5.1	20.5
330406 2007 BP_{23}	16.7	X	110.49797	90.10768	114.90787	4.85945	0.0644621	0.23945411	2.5683519	21	8 29.1	20.2
330407 2007 BY_{28}	16.9	X	82.19723	10.60572	196.74226	2.18399	0.0569808	0.23330837	2.6132593	21	7 22.6	20.4
330408 2007 BL_{38}	17.1	X	218.29381	169.27740	228.18314	2.32510	0.2575050	0.23485231	2.6017935	21	5 14.6	21.7
330409 2007 BS_{45}	17.5	X	89.12255	30.49363	127.34980	5.29388	0.1709825	0.22576852	2.6711224	21	6 12.9	21.2
330410 2007 BW_{47}	17.3	X	44.65536	81.32639	103.98783	5.72984	0.0834712	0.22016174	2.7162818	21	5 3.9	20.6
330411 2007 BM_{48}	16.7	X	52.53014	73.90053	107.80941	5.98103	0.0507742	0.22125334	2.7073402	21	5 7.5	20.1
330412 2007 BL_{58}	16.5	X	55.88447	39.37118	133.52947	10.93234	0.2002112	0.21944918	2.7221585	21	5 22.5	19.7
330413 2007 BP_{58}	16.4	X	128.16397	355.10923	155.28024	8.27890	0.1385235	0.23007598	2.6376785	21	7 13.2	20.5
330414 2007 BQ_{63}	17.1	X	88.48341	338.21174	235.03181	2.33095	0.0856140	0.23585355	2.5944249	21	8 12.3	20.7
330415 2007 CT_{7}	17.1	X	148.48842	356.62596	121.79654	3.70770	0.0785231	0.23271345	2.6177111	21	6 19.5	20.8
330416 2007 CX_{13}	17.0	X	72.32143	93.68632	151.33006	12.24152	0.0784262	0.23759907	2.5817027	21	9 4.0	20.2
330417 2007 CE_{15}	16.3	X	355.68970	164.31934	70.43543	17.99023	0.2088571	0.21530516	2.7569767	21	4 19.5	19.3
330418 2007 CD_{18}	17.2	X	57.48285	49.34329	109.31639	3.85897	0.1763880	0.21835987	2.7312041	21	4 29.5	20.2
330419 2007 CX_{25}	16.7	X	153.05965	69.83458	61.51712	6.38585	0.1340571	0.23460138	2.6036484	21	7 15.7	20.7
330420 Tomroman	16.9	X	44.88680	65.97528	111.45622	6.83428	0.0998592	0.21995244	2.7180046	21	4 25.9	20.2
330421 2007 CQ_{26}	16.4	X	49.58762	109.84461	64.82060	12.78336	0.1303932	0.21757058	2.7378055	21	5 3.4	19.6
330422 2007 CH_{27}	16.1	X	205.82137	314.06712	94.09081	14.13938	0.1639712	0.23313145	2.6145812	21	5 23.4	20.5
330423 2007 CN_{39}	16.1	X	26.67602	140.58120	142.66887	12.56867	0.1580435	0.23543325	2.5975117	21	8 31.5	18.8
330424 2007 CR_{46}	15.8	X	14.84691	279.11690	313.70546	10.63963	0.2698040	0.21956447	2.7212055	21	5 20.9	18.0
330425 2007 CH_{47}	15.9	X	32.53317	257.49523	317.67071	8.29145	0.1612627	0.22069930	2.7118692	21	5 29.3	18.8
330426 2007 CC_{52}	16.6	X	245.55065	345.38377	107.30627	8.84497	0.1305887	0.24482540	2.5306480	21	9 4.1	20.2
330427 2007 CL_{56}	16.4	X	87.80573	20.41630	164.13010	10.42788	0.0435054	0.22926567	2.6438899	21	6 27.2	20.1
330428 2007 CM_{61}	16.6	X	92.52967	23.78855	122.36885	12.89276	0.1337287	0.22344374	2.6896179	21	5 29.8	20.4
330429 2007 CJ_{62}	16.9	X	84.86470	277.37667	247.14250	2.46180	0.1252101	0.22481631	2.6786595	21	6 8.8	20.3
330430 2007 DW_{6}	16.7	X	46.35620	299.24635	201.27349	3.89911	0.0149867	0.20956675	2.8070779	21	2 28.7	20.4
330431 2007 DH_{10}	17.0	X	182.38875	288.37303	153.90890	5.79783	0.0312151	0.22557132	2.6726789	21	6 10.9	20.8
330432 2007 DN_{12}	17.0	X	143.88263	4.38308	129.05225	12.86335	0.1590526	0.23087877	2.6315606	21	7 9.5	21.2
330433 2007 DY_{12}	16.1	X	186.07582	40.15938	351.09197	13.23484	0.0651664	0.21559477	2.7545071	21	4 6.2	20.2
330434 2007 DS_{13}	17.0	X	89.77348	28.36969	181.19521	3.56434	0.1138983	0.23611416	2.5925155	21	8 13.2	20.6
330435 2007 DF_{34}	17.1	X	84.34635	153.20111	354.83601	3.09992	0.1217774	0.21936462	2.7228580	21	5 15.3	20.7
330436 2007 DR_{34}	15.9	X	47.77771	45.00238	161.20527	15.35813	0.1090882	0.22096903	2.7096619	21	6 10.3	19.5
330437 2007 DT_{39}	15.9	X	146.51215	326.24706	287.29179	11.25132	0.0980162	0.18867667	3.0106290	21	11 30.8	20.7
330438 2007 DH_{48}	16.2	X	159.84347	348.59655	319.38018	1.78205	0.0614976	0.19459905	2.9492318	21	—	—
330439 2007 DR_{55}	16.8	X	305.28256	263.38747	65.47774	3.20021	0.0677240	0.22647616	2.6655555	21	6 13.2	20.2
330440 Davinadon	16.3	X	9.68213	160.30697	56.92125	3.00785	0.2721580	0.21447766	2.7640635	21	4 13.4	18.3
330441 2007 DH_{76}	17.1	X	8.15458	55.12069	140.56266	5.15558	0.1362776	0.21042244	2.7994627	21	3 18.0	20.1
330442 2007 DC_{87}	17.0	X	359.11700	193.27092	16.66111	3.65008	0.0345685	0.21528625	2.7571381	21	3 27.0	20.3
330443 2007 DF_{92}	17.2	X	61.78035	158.54279	347.90060	4.38530	0.1002301	0.21618558	2.7494864	21	4 6.2	20.4
330444 2007 DP_{96}	16.5	X	175.18143	288.87978	170.76633	21.88767	0.0408328	0.22712626	2.6604667	21	6 25.1	20.8
330445 2007 DQ_{105}	16.8	X	53.51048	13.54722	181.69143	6.66950	0.0225555	0.22130636	2.7069077	21	5 23.3	20.4
330446 2007 DW_{106}	16.9	X	177.68415	243.29538	176.52135	5.23871	0.0415611	0.21989610	2.7184689	21	5 7.5	20.7
330447 2007 DF_{109}	15.4	X	292.50439	183.11835	30.64576	18.36384	0.1969604	0.20165633	2.8800154	21	—	—
330448 2007 DN_{109}	16.8	X	322.48375	286.93015	327.42798	2.81071	0.0483339	0.21583271	2.7524824	21	3 31.2	20.4
330449 2007 EH_{5}	16.6	X	87.07306	108.71860	108.88873	11.01366	0.1115192	0.23459920	2.6036646	21	8 24.1	20.3
330450 2007 EZ_{5}	16.7	X	127.97898	111.43741	343.28171	4.66646	0.0844341	0.21991521	2.7183114	21	4 24.4	20.7
330451 2007 EP_{7}	17.2	X	221.74570	199.83997	179.16765	3.44480	0.0862395	0.22141497	2.7060225	21	5 4.0	21.3
330452 2007 EN_{12}	15.9	X	200.76600	265.60315	169.60814	22.02976	0.0575838	0.23007497	2.6376862	21	6 23.5	20.2
330453 2007 EC_{17}	16.9	X	150.62300	325.29288	125.19985	4.21320	0.0579546	0.21923584	2.7239242	21	5 16.2	20.8
330454 2007 EX_{19}	16.2	X	357.72866	160.34026	165.17891	12.90387	0.1421430	0.23677835	2.5876650	21	9 4.3	18.5
330455 Anbrysse	16.4	X	13.89423	189.08272	132.68171	5.96766	0.0551261	0.24032593	2.5621367	21	9 23.5	19.5
330456 2007 EK_{38}	15.6	X	249.00341	319.23820	159.86539	28.15118	0.2971920	0.17945443	3.1129102	21	9 14.2	20.5
330457 2007 EN_{42}	16.2	X	356.89619	221.09880	5.97094	7.74986	0.1251269	0.21266612	2.7797379	21	4 8.1	19.2
330458 2007 ES_{117}	16.9	X	284.97247	136.57074	176.45360	9.07513	0.1583423	0.21043369	2.7993629	21	4 14.5	20.9
330459 2007 EL_{128}	17.1	X	347.64504	127.49538	174.25962	6.68599	0.1103725	0.22710052	2.6606676	21	7 9.1	20.1
330460 2007 EV_{139}	15.5	X	236.12955	137.01449	9.39113	10.31682	0.1307155	0.17978262	3.1091207	21	10 19.9	20.2
330461 2007 EA_{146}	16.6	X	64.97682	197.82331	131.52849	3.83911	0.1168686	0.24737938	2.5132000	21	12 20.3	20.1
330462 2007 EK_{148}	16.9	X	12.24030	163.23963	112.67063	4.08002	0.0402558	0.22684598	2.6626576	21	7 13.8	20.3
330463 2007 EQ_{153}	16.9	X	58.44568	39.26027	141.84743	7.74357	0.0466187	0.21871734	2.7282275	21	5 15.5	20.6
330464 2007 EJ_{159}	16.8	X	306.94775	174.49144	148.08046	7.62157	0.0739504	0.22864753	2.6486528	21	6 7.3	20.2
330465 2007 EC_{160}	17.0	X	33.95830	30.76916	181.97142	3.58501	0.0202301	0.21945098	2.7221436	21	5 19.0	20.5
330466 2007 EV_{171}	16.6	X	97.12008	320.23538	184.21772	13.59039	0.1353263	0.22087616	2.7104214	21	6 1.2	20.6
330467 2007 EL_{183}	17.0	X	337.72282	184.65878	118.25863	3.61869	0.1370551	0.22592340	2.6699015	21	6 21.0	19.8
330468 2007 EH_{195}	16.6	X	180.65802	250.41343	170.91294	5.16186	0.1016602	0.22167178	2.7039321	21	5 14.4	20.8
330469 2007 EO_{195}	17.1	X	148.98807	253.54531	172.46243	6.44453	0.0107551	0.21446781	2.7641481	21	4 7.9	20.8
330470 2007 EJ_{199}	15.7	X	3.47074	109.44016	74.38659	25.60902	0.1176425	0.21042045	2.7994804	21	3 7.9	19.7
330471 2007 ER_{199}	16.4	X	20.01229	198.71166	37.75123	3.07966	0.1444235	0.21995537	2.7179805	21	6 4.9	19.3
330472 2007 EX_{199}	16.3	X	52.39083	199.71123	355.90234	8.71260	0.0266111	0.22112731	2.7083688	21	5 18.5	20.0
330473 2007 ET_{204}	17.5	X	199.98497	43.36847	19.71189	2.60217	0.0800599	0.22556507	2.6727284	21	6 4.8	21.6
330474 2007 EZ_{218}	16.7	X	227.37088	176.94155	186.12967	6.03195	0.0361042	0.21599144	2.7511336	21	4 23.9	20.6
330475 2007 EL_{219}	17.2	X	276.49818	113.05739	184.10355	4.21561	0.0445928	0.21225497	2.7833264	21	3 28.8	20.9
330476 2007 FH_{6}	17.1	X	250.73228	162.88239	171.90674	6.60239	0.0415075	0.21697278	2.7428320	21	4 15.7	21.0
330477 2007 FZ_{6}	17.4	X	343.88882	93.48459	356.18716	0.36982	0.1649446	0.19066854	2.9896249	21	—	—
330478 2007 FU_{30}	17.0	X	102.94850	259.08718	192.25019	3.85494	0.0728870	0.20895714	2.8125348	21	3 20.8	20.7
330479 2007 FL_{49}	15.5	X	271.24812	189.07831	94.94699	16.45085	0.1154895	0.20347694	2.8628104	21	3 5.1	20.0
330480 2007 GE_{9}	16.4	X	238.60011	324.02574	18.32957	4.25177	0.1098515	0.20972883	2.8056315	21	4 4.6	20.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
330481 2007 GU_{17}	16.3	X	220.36483	51.35753	228.63690	9.79337	0.0257691	0.19300792	2.9654183	21	1 4.2	20.7
330482 2007 GX_{20}	16.0	X	236.52846	194.41998	44.23331	12.82703	0.0420496	0.18731721	3.0251779	21	—	—
330483 2007 GY_{24}	16.3	X	308.67224	308.43914	346.69299	7.15137	0.2027532	0.21285036	2.7781336	21	4 10.4	20.0
330484 2007 GX_{39}	16.0	X	203.22730	288.45116	46.56205	8.83886	0.1434483	0.19743218	2.9209498	21	2 25.5	20.8
330485 2007 GB_{44}	16.7	X	308.77760	72.56926	202.89419	5.39508	0.0270210	0.21089403	2.7952877	21	4 14.1	20.5
330486 2007 GV_{44}	16.5	X	167.49549	103.87864	202.59852	9.09110	0.0786073	0.18553024	3.0445720	21	—	—
330487 2007 GB_{45}	16.7	X	219.99488	131.69592	175.07272	3.29203	0.0327129	0.19671585	2.9280365	21	2 4.9	21.1
330488 2007 GC_{55}	15.8	X	116.57956	314.32878	148.30953	7.58374	0.1249733	0.21243335	2.7817681	21	5 1.5	19.9
330489 2007 GS_{63}	16.4	X	27.85090	55.88286	34.33375	6.18039	0.0145850	0.18855890	3.0118825	21	—	—
330490 2007 GZ_{72}	15.3	X	100.90008	76.09454	194.52748	20.26193	0.0381141	0.17074191	3.2179254	21	10 29.9	20.0
330491 2007 GL_{75}	16.1	X	168.55107	276.54934	66.04499	10.91862	0.0863927	0.19148193	2.9811525	21	1 29.4	20.7
330492 2007 HM_{1}	16.5	X	94.65636	40.23059	200.42987	11.74308	0.1417718	0.23155477	2.6264364	21	10 2.0	20.5
330493 2007 HJ_{14}	16.7	X	325.38433	274.99036	219.42271	6.10043	0.1728541	0.18847490	3.0127773	21	—	—
330494 2007 HO_{16}	16.6	X	320.66222	154.60881	175.31126	13.10705	0.0136088	0.22936815	2.6431023	21	7 12.6	20.4
330495 2007 HO_{24}	16.8	X	269.52483	94.57612	180.24839	4.64476	0.1151201	0.19828281	2.9125899	21	2 13.4	21.3
330496 2007 HL_{56}	15.8	X	152.48250	277.13994	61.27009	10.45154	0.0949494	0.18825428	3.0151307	21	1 7.0	20.3
330497 2007 JS_{3}	16.8	X	294.12357	150.85319	97.28486	10.07134	0.2252188	0.19783468	2.9169865	21	1 27.9	21.2
330498 2007 KY_{1}	15.8	X	12.11715	107.04416	259.27186	10.61403	0.2943884	0.23096518	2.6309042	21	12 21.6	18.7
330499 2007 LT_{7}	16.2	X	178.42480	182.01071	155.49539	14.12878	0.1046736	0.18903030	3.0068731	21	1 31.2	20.9
330500 2007 LX_{9}	16.6	X	187.46932	193.67914	145.33174	12.43632	0.2883378	0.18741752	3.0240985	21	2 17.3	22.0
330501 2007 LE_{13}	16.5	X	270.15575	72.92242	154.89893	11.98397	0.0826074	0.19062298	2.9901012	21	—	—
330502 2007 LK_{13}	16.0	X	221.60007	206.00038	118.82515	14.77869	0.2122666	0.19515447	2.9436333	21	2 27.3	21.1
330503 2007 LH_{17}	16.0	X	206.42136	290.95511	59.55080	6.20821	0.1426811	0.19812948	2.9140923	21	3 17.3	20.7
330504 2007 LL_{17}	16.3	X	246.52302	172.99424	60.36130	10.39244	0.0909629	0.18638317	3.0352764	21	—	—
330505 2007 LT_{17}	16.0	X	131.08746	176.12757	176.23013	17.46627	0.2189046	0.17962011	3.1109957	21	1 14.2	21.1
330506 2007 LX_{18}	15.8	X	251.36929	15.68494	252.43415	12.61923	0.2172857	0.19043065	2.9921141	21	1 12.0	21.0
330507 2007 LE_{26}	15.7	X	211.03620	25.42742	246.56952	8.01898	0.0880143	0.17745291	3.1362738	21	—	—
330508 2007 LV_{28}	15.6	X	192.42263	359.36293	281.10035	13.94135	0.2775952	0.17635369	3.1492926	21	—	—
330509 2007 MX_{1}	16.7	X	257.93204	155.93490	151.42508	13.53119	0.1578075	0.20048235	2.8912476	21	3 10.8	21.2
330510 2007 MR_{7}	15.8	X	220.17409	220.94716	73.82955	7.80618	0.0770512	0.19101723	2.9859855	21	1 23.9	20.4
330511 2007 NJ_{3}	16.1	X	206.24845	126.42380	149.70940	17.63910	0.2325072	0.17774583	3.1328272	21	—	—
330512 2007 NO_{4}	15.2	X	201.63153	67.19347	225.12016	14.26208	0.2400927	0.17650854	3.1474505	21	1 4.1	20.9
330513 2007 RX_{16}	15.4	X	247.19296	63.78295	276.30863	8.94141	0.1146814	0.18896133	3.0076047	21	4 7.9	20.1
330514 2007 RB_{84}	14.7	X	255.17107	259.44286	128.57490	3.99690	0.2787509	0.12476099	3.9665857	21	6 4.2	21.0
330515 2007 RQ_{275}	17.2	X	6.43391	260.92841	118.82140	24.49868	0.0692727	0.36342651	1.9447255	21	—	—
330516 2007 RZ_{302}	14.8	X	261.71308	285.39190	100.03518	4.07808	0.2437664	0.12520184	3.9572691	21	6 10.1	20.8
330517 2007 RC_{311}	15.4	X	136.29430	266.49782	85.35871	13.00269	0.2682930	0.17200802	3.2021150	21	1 27.8	20.7
330518 2007 SH_{5}	17.1	X	76.26164	299.49737	48.98285	6.70194	0.2016241	0.29837684	2.2179886	21	—	—
330519 2007 TC_{49}	18.3	X	105.78511	0.83912	351.51975	2.55641	0.1194180	0.30294265	2.1956466	21	—	—
330520 2007 TV_{84}	15.9	X	205.79001	76.03892	254.32274	14.36664	0.2253191	0.17782075	3.1319472	21	2 14.1	21.6
330521 2007 TC_{109}	18.1	X	139.92194	67.65954	280.03995	2.63021	0.1639564	0.31064944	2.1591808	21	—	—
330522 2007 TO_{127}	15.3	X	276.21355	209.30672	164.97627	3.15546	0.2213584	0.12420198	3.9784788	21	6 14.3	21.1
330523 2007 TJ_{156}	14.5	X	246.15828	157.90182	244.09733	7.94224	0.2099159	0.12281015	4.0084813	21	6 18.2	20.7
330524 2007 TL_{216}	17.5	X	306.13071	195.01637	240.25534	2.06101	0.1378931	0.28217350	2.3021055	21	11 16.6	19.3
330525 2007 TH_{234}	17.2	X	346.73136	91.11103	45.72700	22.51593	0.2228657	0.29838301	2.2179580	21	—	—
330526 2007 TL_{245}	14.7	X	292.93440	278.57606	87.33205	4.06156	0.2874453	0.12683724	3.9231796	21	6 14.1	20.2
330527 2007 TT_{306}	17.1	X	11.92007	176.02317	191.36322	4.14214	0.0921415	0.21626035	2.7488526	21	11 19.8	20.5
330528 2007 UC_{47}	14.4	X	264.09027	307.30343	64.21686	9.97940	0.1829810	0.12367127	3.9898524	21	6 2.4	20.3
330529 2007 VA_{18}	17.5	X	311.47160	246.47249	64.66754	3.10020	0.1883670	0.26542478	2.3979589	21	5 6.6	19.9
330530 2007 VW_{226}	17.1	X	50.08316	350.06378	108.71983	6.36907	0.1579547	0.29926814	2.2135826	21	—	—
330531 2007 VD_{273}	18.0	X	26.63495	190.45326	187.21644	2.61881	0.1919781	0.28965167	2.2623095	21	—	—
330532 2007 WW_{14}	18.3	X	145.93547	138.82097	205.66873	2.24963	0.2012054	0.30715692	2.1755172	21	—	—
330533 2007 XZ_{15}	17.6	X	354.00036	57.18221	57.56069	7.84600	0.1477228	0.29454283	2.2371945	21	—	—
330534 2007 XR_{32}	17.9	X	227.83989	51.73278	86.75043	5.34007	0.1705847	0.26579443	2.3957351	21	10 10.3	21.3
330535 2007 YL_{42}	17.5	X	316.10852	186.29210	310.63900	1.68725	0.1545586	0.28686948	2.2769132	21	—	—
330536 2007 YM_{62}	18.0	X	238.16003	161.38531	132.61598	2.45858	0.0650370	0.30349798	2.1929674	21	1 21.2	20.8
330537 2007 YB_{65}	18.0	X	358.90662	169.20660	276.66237	3.31463	0.1064972	0.28653371	2.2786917	21	—	—
330538 2007 YK_{68}	17.7	X	296.13570	206.86323	57.43400	3.53884	0.1522720	0.30886957	2.1674677	21	2 10.3	20.5
330539 2007 YL_{72}	17.3	X	7.15098	143.70528	351.76327	5.25286	0.0256974	0.29523239	2.2337096	21	—	—
330540 2008 AC_{3}	16.0	X	50.30953	14.82988	124.78396	13.49570	0.1154514	0.23078081	2.6323053	21	3 14.1	19.1
330541 2008 AK_{9}	17.9	X	146.71251	201.57427	179.26856	1.91049	0.0954183	0.30433588	2.1889404	21	1 30.3	20.4
330542 2008 AH_{16}	17.8	X	288.38102	0.81305	170.93848	3.15410	0.1757057	0.28591858	2.2819588	21	—	—
330543 2008 AR_{55}	17.5	X	256.13166	270.79441	276.29781	3.76104	0.1497789	0.28279556	2.2987284	21	—	—
330544 2008 AZ_{63}	18.3	X	301.12960	355.76229	135.67521	4.44992	0.0998716	0.28189623	2.3036149	21	—	—
330545 2008 AH_{65}	17.9	X	221.07060	242.25462	200.42177	2.14086	0.1456575	0.25737325	2.4477127	21	7 19.5	21.5
330546 2008 AC_{70}	17.0	X	43.24515	209.32199	247.70332	6.63154	0.1088916	0.29909019	2.2144605	21	—	—
330547 2008 AK_{72}	17.6	X	48.78413	346.94579	85.09227	6.53026	0.0671401	0.29455297	2.2371432	21	—	—
330548 2008 AC_{89}	18.0	X	355.23232	199.35378	281.37977	2.17613	0.1040908	0.29251629	2.2475154	21	—	—
330549 2008 AY_{95}	17.6	X	241.06710	263.27326	78.71273	4.95912	0.1344883	0.31469208	2.1406492	21	3 28.1	20.6
330550 2008 AW_{99}	17.9	X	299.37897	354.15359	165.40588	5.96693	0.1192228	0.28558416	2.2837399	21	—	—
330551 2008 AF_{105}	17.8	X	349.56797	186.43740	318.00482	4.45733	0.0891370	0.29571415	2.2312829	21	—	—
330552 2008 BV_{9}	17.6	X	290.67237	62.80084	67.18037	3.40951	0.1778065	0.27875243	2.3209027	21	—	—
330553 2008 BN_{15}	18.3	X	18.73225	260.84136	188.25897	1.09153	0.0971143	0.29077533	2.2564775	21	—	—
330554 2008 BN_{17}	15.7	X	291.68868	212.10237	324.05216	8.08541	0.2071982	0.21292479	2.7774861	21	—	—
330555 2008 BA_{19}	17.7	X	2.49898	315.46913	132.20525	5.55735	0.1388098	0.28728673	2.2747081	21	—	—
330556 2008 BX_{25}	17.2	X	92.40781	323.48871	77.95440	5.27273	0.0611816	0.29590364	2.2303303	21	—	—
330557 2008 BE_{30}	17.5	X	76.60546	276.55994	148.25720	6.90513	0.1786106	0.29912780	2.2142749	21	—	—
330558 2008 BH_{37}	17.9	X	212.65576	191.82666	159.92391	2.91419	0.1469625	0.31158648	2.1548497	21	3 9.6	20.9
330559 2008 BQ_{39}	18.0	X	314.19365	59.53526	82.06708	5.68757	0.1090112	0.28646572	2.2790522	21	—	—
330560 2008 BO_{45}	17.0	X	19.32188	40.99766	90.48299	8.19236	0.0353360	0.29628270	2.2284276	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
330561 2008 CT_5	16.3	X	65.74909	149.13665	337.22604	32.46317	0.1588043	0.23066776	2.6331652	21	3 11.4	19.5
330562 2008 CG_{14}	17.9	X	189.99617	151.51758	19.15488	2.66048	0.0943433	0.26316626	2.4116590	21	10 14.9	21.2
330563 2008 CB_{17}	18.0	X	217.38136	69.27045	125.83446	1.94234	0.1237635	0.27175244	2.3605892	21	12 15.5	21.0
330564 2008 CN_{21}	16.6	X	245.50462	309.28491	170.00858	23.61339	0.2692279	0.26486540	2.4013340	21	9 20.0	20.1
330565 2008 CC_{25}	17.8	X	302.32353	37.67646	87.57254	3.16400	0.1573764	0.27840396	2.3228390	21	—	—
330566 2008 CR_{35}	17.3	X	190.88770	242.99428	338.46779	5.43144	0.1906933	0.27066574	2.3669033	21	12 12.1	20.9
330567 2008 CP_{40}	17.7	X	190.64228	0.36461	200.25362	4.38520	0.1243168	0.26772761	2.3841886	21	11 22.1	21.0
330568 2008 CR_{42}	17.5	X	75.24034	160.03237	244.38946	3.55150	0.0802509	0.28866441	2.2674648	21	—	—
330569 2008 CU_{46}	17.3	X	86.49771	221.16328	187.27580	5.37091	0.1292866	0.29124148	2.2540691	21	—	—
330570 2008 CR_{47}	17.1	X	83.07398	282.73201	122.28590	7.78469	0.1096827	0.29190010	2.2506772	21	—	—
330571 2008 CC_{48}	17.2	X	207.72181	259.74961	261.86482	5.45595	0.2980649	0.26524498	2.3990425	21	10 3.2	21.3
330572 2008 CZ_{49}	17.4	X	307.48399	358.51238	109.17241	3.80343	0.1910277	0.27867251	2.3213465	21	—	—
330573 2008 CN_{65}	15.6	X	285.92157	268.25309	338.26925	23.35718	0.2613570	0.21833356	2.7314235	21	1 17.4	20.3
330574 2008 CZ_{68}	18.2	X	321.88279	94.57652	49.10619	5.93615	0.1101733	0.28855498	2.2680380	21	—	—
330575 2008 CW_{73}	18.0	X	257.47418	7.22642	125.03298	2.79984	0.1628302	0.27246565	2.3564680	21	11 9.4	20.7
330576 2008 CC_{76}	17.1	X	174.55573	123.53699	111.32774	5.36678	0.1922832	0.26691741	2.3890108	21	12 13.7	20.8
330577 2008 CQ_{83}	17.4	X	228.62131	98.83365	127.19960	2.88219	0.1541493	0.27952676	2.3166146	21	—	—
330578 2008 CS_{88}	17.3	X	203.50454	139.53173	75.81847	4.19077	0.1372824	0.27216863	2.3581821	21	12 23.6	20.4
330579 2008 CK_{90}	17.8	X	310.38005	330.80327	153.00535	5.42868	0.1035846	0.28326333	2.2961970	21	—	—
330580 2008 CU_{95}	17.7	X	166.11446	151.05404	116.65175	2.44425	0.0207442	0.27552073	2.3390160	21	—	—
330581 2008 CE_{108}	17.7	X	262.84234	237.00222	268.16716	4.35778	0.1672192	0.27503622	2.3417622	21	12 4.5	20.0
330582 2008 CY_{108}	17.1	X	176.25004	90.34838	184.97811	5.50064	0.1666197	0.27595812	2.3365438	21	—	—
330583 2008 CZ_{120}	17.0	X	255.66011	40.85729	97.05895	7.02802	0.0499177	0.26845016	2.3799085	21	12 1.4	20.0
330584 2008 CP_{123}	17.9	X	304.95983	299.06638	193.29119	1.34484	0.1031184	0.28117992	2.3075255	21	—	—
330585 2008 CQ_{129}	17.1	X	18.20772	146.25625	161.10251	7.60370	0.1391528	0.25521132	2.4615165	21	9 20.4	19.6
330586 2008 CH_{135}	17.3	X	260.96085	65.65829	152.06977	6.13826	0.0693888	0.28791761	2.2713840	21	—	—
330587 2008 CU_{144}	17.4	X	206.34483	295.25326	300.25207	4.55624	0.1958774	0.27590235	2.3368587	21	—	—
330588 2008 CW_{154}	17.4	X	172.47656	219.81273	114.81717	6.48893	0.1351142	0.29101308	2.2552483	21	1 7.7	20.3
330589 2008 CB_{155}	17.5	X	311.92240	26.63088	67.21191	3.90376	0.1404429	0.27412751	2.3469345	21	12 24.8	19.4
330590 2008 CT_{156}	17.5	X	323.32601	10.64438	124.19527	4.07953	0.1161275	0.28346205	2.2951237	21	—	—
330591 2008 CA_{158}	17.4	X	94.29571	163.63699	255.63254	3.25273	0.1103444	0.29782447	2.2207302	21	1 10.8	19.4
330592 2008 CJ_{162}	17.3	X	311.18951	238.75763	257.27334	4.89489	0.0990511	0.28388647	2.2928356	21	—	—
330593 2008 CU_{188}	16.1	X	357.45254	234.29599	335.21640	30.75301	0.2581897	0.22941092	2.6427738	21	2 24.3	18.6
330594 2008 CB_{196}	18.2	X	256.53555	4.65984	167.49987	4.77440	0.1308009	0.27758478	2.3274067	21	—	—
330595 2008 CU_{209}	17.1	X	8.23170	348.24335	96.67246	11.56689	0.1310967	0.28471262	2.2883981	21	—	—
330596 2008 DU_2	17.9	X	342.92425	321.87785	130.45395	5.00988	0.1190827	0.28331858	2.2958985	21	—	—
330597 2008 DO_6	18.1	X	276.00654	18.73551	141.06371	2.93017	0.1355733	0.28098102	2.3086143	21	—	—
330598 2008 DZ_9	17.6	X	126.46772	27.82848	305.98641	2.49996	0.0425009	0.28686639	2.2769296	21	—	—
330599 2008 DY_{15}	17.2	X	209.70500	115.31803	117.12248	7.18523	0.2049017	0.27570085	2.3379972	21	—	—
330600 2008 DR_{17}	17.2	X	234.51876	55.24576	154.48400	6.22838	0.0562713	0.27783559	2.3260058	21	—	—
330601 2008 DG_{19}	17.5	X	198.39482	50.47363	153.54667	5.38698	0.1515855	0.27108970	2.3644350	21	12 2.9	20.9
330602 2008 DL_{32}	17.6	X	6.00822	319.89475	146.92849	5.76353	0.1365536	0.28733310	2.2744634	21	—	—
330603 2008 DS_{32}	17.4	X	168.94812	192.96118	41.84849	3.26407	0.1329493	0.26753858	2.3853115	21	12 11.4	21.1
330604 2008 DJ_{33}	17.8	X	285.36099	93.21327	56.87785	5.13878	0.1169707	0.27984311	2.3148684	21	—	—
330605 2008 DA_{37}	16.9	X	250.28866	58.59429	116.06199	10.57322	0.0656943	0.27551152	2.3390681	21	—	—
330606 2008 DF_{48}	17.2	X	176.75789	197.75823	43.90387	1.95219	0.1493232	0.26920018	2.3754861	21	12 27.1	20.7
330607 2008 DC_{54}	17.7	X	217.34281	143.80583	22.98228	3.42124	0.1867556	0.26793048	2.3829850	21	10 30.8	21.2
330608 2008 DV_{65}	17.4	X	72.83172	184.16111	122.50159	6.58748	0.1333552	0.26017767	2.4300919	21	12 5.6	20.8
330609 2008 DP_{67}	17.0	X	255.76882	4.14455	257.75618	3.94116	0.1091012	0.28882442	2.2666273	21	—	—
330610 2008 DD_{70}	17.2	X	282.03082	82.99287	89.51120	8.50715	0.0693856	0.28339236	2.2955000	21	—	—
330611 2008 DU_{78}	18.1	X	279.67271	26.89077	86.84527	2.18222	0.1398071	0.27036905	2.3686346	21	11 21.4	20.6
330612 2008 DJ_{79}	17.2	X	282.79574	63.68451	87.93399	4.92925	0.0890015	0.27764669	2.3270607	21	—	—
330613 2008 DT_{80}	17.6	X	180.80777	130.11136	95.42396	3.07148	0.1513886	0.26637402	2.3922587	21	12 10.5	21.3
330614 2008 DK_{81}	17.7	X	161.56730	85.83195	179.06596	1.38274	0.1606928	0.26867387	2.3785873	21	—	—
330615 2008 DO_{82}	18.3	X	244.17453	1.09780	124.59104	3.26325	0.1522450	0.26391167	2.4071158	21	10 13.9	21.3
330616 2008 DN_{85}	17.6	X	156.75377	101.52001	113.59480	2.06681	0.1376324	0.26009865	2.4305841	21	11 4.9	21.2
330617 2008 DQ_{88}	17.0	X	19.73606	259.82031	171.77582	5.12254	0.1335809	0.28275841	2.2989297	21	—	—
330618 2008 ET_4	17.3	X	347.81092	33.58340	57.46385	7.09977	0.0962571	0.27912377	2.3188438	21	—	—
330619 2008 EW_7	16.9	X	260.04467	31.20734	117.94226	3.21495	0.1329997	0.27143960	2.3624026	21	12 10.8	19.6
330620 2008 EC_{10}	17.3	X	3.21834	324.95570	130.54570	6.92538	0.1762131	0.28501571	2.2867754	21	—	—
330621 2008 EB_{19}	17.8	X	197.88297	339.43110	204.84767	1.27324	0.1309932	0.26586690	2.3952998	21	11 7.6	21.2
330622 2008 EP_{26}	17.4	X	117.38236	48.02459	202.61953	4.47178	0.1315995	0.25751432	2.4468187	21	11 10.6	21.1
330623 2008 EX_{33}	17.8	X	175.18846	100.49712	162.85073	4.77414	0.2183380	0.27314800	2.3525419	21	—	—
330624 2008 EF_{34}	17.7	X	253.92055	274.56004	242.38697	3.71472	0.1747081	0.27347946	2.3506406	21	12 5.7	20.2
330625 2008 EJ_{39}	16.3	X	126.50549	237.11991	110.77094	5.44308	0.0798184	0.20921380	2.8102341	21	—	—
330626 2008 EW_{54}	17.1	X	185.94597	230.01747	29.02473	6.13468	0.2162902	0.26998400	2.3708862	21	—	—
330627 2008 ED_{74}	16.9	X	192.20353	187.02502	49.24621	4.77567	0.1661232	0.27004881	2.3705068	21	—	—
330628 2008 EW_{77}	17.2	X	141.06444	135.88811	168.36179	6.69162	0.1693954	0.27192946	2.3595646	21	—	—
330629 2008 EJ_{78}	17.6	X	154.27127	127.64295	122.55303	3.07087	0.1658276	0.26376717	2.4079949	21	12 14.9	21.3
330630 2008 EK_{78}	17.9	X	195.89044	55.65474	124.15461	3.15546	0.1651515	0.26189417	2.4194621	21	10 28.8	21.6
330631 2008 ES_{82}	17.1	X	261.96512	249.97157	253.79164	5.63923	0.1377367	0.27223972	2.3577716	21	12 5.4	19.5
330632 2008 EV_{83}	17.6	X	242.50050	168.90090	354.49646	2.29451	0.1412837	0.27047817	2.3679975	21	12 2.3	20.3
330633 2008 EK_{122}	15.8	X	233.76474	96.67476	3.98473	9.81342	0.0403664	0.17931000	3.1145816	21	9 6.2	20.2
330634 Boico	17.6	X	272.67880	241.15877	210.78140	4.44912	0.0709078	0.26135100	2.4228132	21	10 18.0	20.4
330635 2008 EG_{136}	17.6	X	213.25347	185.30068	40.01201	6.46464	0.0617673	0.27336843	2.3512771	21	—	—
330636 2008 EW_{147}	17.3	X	148.27495	135.24728	171.85709	6.76754	0.1234186	0.27528638	2.3403433	21	—	—
330637 2008 EM_{152}	17.7	X	303.78155	272.74133	182.21825	6.04871	0.0932977	0.26739349	2.3861743	21	12 10.9	20.3
330638 2008 EX_{164}	17.3	X	149.29869	35.53319	202.06414	8.85421	0.2241743	0.26311612	2.4119654	21	11 25.3	21.4
330639 2008 FY	17.6	X	154.39162	22.96074	185.20348	8.06011	0.0700868	0.26091974	2.4254822	21	10 26.2	21.0
330640 2008 FX_2	17.9	X	261.92399	354.84082	130.43794	0.29687	0.1473704	0.26906398	2.3762876	21	11 7.2	20.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
330641 2008 FP_{25}	17.9	X	184.05603	75.31587	75.82915	3.03640	0.1616346	0.25341582	2.4731297	21	9 10.9	21.8
330642 2008 FQ_{28}	16.9	X	193.28875	313.93622	206.45110	0.67137	0.1141405	0.18788109	3.0191221	21	9 26.9	21.5
330643 2008 FJ_{37}	16.8	X	225.12836	168.18903	158.37086	5.48332	0.1148512	0.21933807	2.7230777	21	3 1.4	21.0
330644 2008 FB_{39}	17.1	X	27.83791	310.06288	60.22362	6.28691	0.0273122	0.26387595	2.4073330	21	12 16.3	20.0
330645 2008 FF_{40}	17.3	X	176.43508	116.16789	100.76895	2.38415	0.1260133	0.26257733	2.4152637	21	11 26.8	20.8
330646 2008 FL_{40}	17.4	X	119.25316	210.22891	46.74972	5.70353	0.1573986	0.25679134	2.4514091	21	11 20.4	21.3
330647 2008 FU_{52}	17.1	X	125.20356	215.11243	120.79054	2.36005	0.2134035	0.27343267	2.3509088	21	—	—
330648 2008 FB_{56}	17.0	X	129.06846	91.17287	194.49285	2.96515	0.1166192	0.26496299	2.4007443	21	—	—
330649 2008 FX_{60}	17.1	X	80.82677	186.15591	44.69282	11.61189	0.1978253	0.24204793	2.5499704	21	9 18.7	20.9
330650 2008 FG_{78}	18.1	X	238.77053	280.58823	199.86110	4.56108	0.1585163	0.26099619	2.4250085	21	9 26.6	21.3
330651 2008 FA_{85}	18.2	X	247.86582	345.01676	144.36537	2.92404	0.1648334	0.26611226	2.3938272	21	10 21.8	21.3
330652 2008 FB_{89}	17.2	X	99.56262	275.62711	57.28651	1.99569	0.2004602	0.26945797	2.3739707	21	—	—
330653 2008 FV_{109}	18.0	X	220.65118	119.93327	49.46384	4.77458	0.0701695	0.26480166	2.4017193	21	11 21.5	21.2
330654 2008 FA_{113}	18.3	X	84.05624	130.40991	154.74650	4.62163	0.2126843	0.25321418	2.4744425	21	11 27.3	22.2
330655 2008 FH_{113}	17.2	X	75.02921	265.55768	41.40534	7.37482	0.1181427	0.25762874	2.4460942	21	12 4.3	20.6
330656 2008 FW_{125}	17.7	X	157.31602	188.22079	14.45826	1.30541	0.1356156	0.25489801	2.4635332	21	10 19.5	21.5
330657 2008 FL_{128}	17.7	X	257.24036	293.09941	167.94889	4.48751	0.1303803	0.25833557	2.4416303	21	9 29.4	20.7
330658 2008 FG_{132}	17.6	X	312.00432	88.98116	18.10704	2.54105	0.1912234	0.27565545	2.3382539	21	—	—
330659 2008 GG_{2}	22.9	X	223.31025	0.54829	198.67930	13.01799	0.2778756	0.49303263	1.5869099	21	—	—
330660 2008 GS_{60}	16.6	X	309.89948	239.84709	41.53635	16.39571	0.2703740	0.22265934	2.6959310	21	3 24.0	20.5
330661 2008 GW_{70}	17.0	X	120.35626	336.25280	331.80260	3.54710	0.2370582	0.26944842	2.3740268	21	—	—
330662 2008 GC_{73}	17.0	X	308.15509	120.18462	175.86184	4.07316	0.1992685	0.22859142	2.6490862	21	4 13.1	20.4
330663 2008 GS_{73}	17.6	X	51.67949	295.10197	92.18263	7.31414	0.1201997	0.27349979	2.3505242	21	—	—
330664 2008 GC_{83}	16.8	X	120.90596	144.64137	166.50706	6.43590	0.1098325	0.26772136	2.3842257	21	—	—
330665 2008 GR_{87}	16.6	X	259.50355	213.62971	41.18167	7.88348	0.0881587	0.21232988	2.7826717	21	1 12.5	20.9
330666 2008 GQ_{90}	17.7	X	163.60449	313.15306	169.77460	3.31450	0.1175520	0.24345929	2.5401059	21	7 13.6	21.6
330667 2008 GL_{95}	16.9	X	103.88079	294.99348	39.43495	6.69708	0.1974660	0.27001129	2.3707264	21	—	—
330668 2008 GZ_{98}	17.3	X	200.25543	322.27432	201.56639	8.22799	0.1274653	0.25885193	2.4383822	21	10 14.2	20.7
330669 2008 GE_{101}	17.6	X	35.96667	248.47503	44.77693	7.28903	0.2086663	0.24236093	2.5477744	21	10 11.1	20.5
330670 2008 GP_{122}	17.7	X	175.41778	111.15969	84.94926	2.62482	0.1269146	0.25827698	2.4419996	21	10 30.6	21.4
330671 2008 GV_{130}	17.0	X	7.41537	159.11726	139.78610	7.17964	0.2549051	0.23442748	2.6049359	21	8 26.1	18.7
330672 2008 GE_{132}	16.8	X	353.30495	322.77256	92.24249	8.27249	0.0985510	0.26409181	2.4060211	21	—	—
330673 2008 GM_{137}	17.0	X	259.59184	304.78076	83.69433	6.40168	0.0572931	0.23831642	2.5765193	21	7 3.4	20.5
330674 2008 GN_{143}	17.0	X	170.29226	106.96622	59.52041	11.91863	0.1867092	0.25312242	2.4750405	21	9 21.9	21.3
330675 2008 HK_{4}	16.6	X	82.98408	350.33514	224.09431	12.12413	0.1850736	0.24020223	2.5630163	21	8 17.4	20.4
330676 2008 HV_{5}	18.0	X	200.21415	30.41022	155.37598	2.81151	0.1362933	0.26257467	2.4152801	21	11 11.9	21.6
330677 2008 HX_{5}	17.3	X	115.71331	165.60179	94.52623	2.47961	0.1557489	0.25653259	2.4530573	21	11 21.7	21.2
330678 2008 HY_{17}	17.2	X	33.89366	51.16874	134.64533	8.49374	0.1623570	0.22609687	2.6685357	21	4 23.2	20.0
330679 2008 HF_{23}	17.2	X	244.29013	181.55235	100.05699	1.89282	0.0337671	0.21523911	2.7575407	21	1 30.8	21.0
330680 2008 HV_{25}	17.1	X	215.47940	18.92791	117.79184	7.40806	0.0515351	0.25112958	2.4881170	21	10 7.2	20.5
330681 2008 HF_{37}	16.5	X	69.55074	5.61201	235.61701	6.16591	0.1025232	0.24103252	2.5571269	21	8 26.1	19.9
330682 2008 HG_{38}	16.6	X	48.99115	1.86677	229.61190	16.72405	0.2289892	0.23380954	2.6095236	21	7 29.5	20.0
330683 2008 HE_{39}	17.7	X	138.73974	25.72030	231.15639	1.65171	0.1697368	0.26198407	2.4189086	21	12 9.0	21.6
330684 2008 HJ_{46}	17.4	X	179.16997	73.57957	126.76804	3.23551	0.1397823	0.25745176	2.4472151	21	11 8.2	21.1
330685 2008 HM_{56}	17.9	X	121.76463	158.93953	114.70447	2.39613	0.1638371	0.26005957	2.4308276	21	12 14.1	21.6
330686 2008 HF_{61}	16.9	X	150.02693	338.84315	177.16015	12.76221	0.0891077	0.24238106	2.5476334	21	8 8.6	20.8
330687 2008 HD_{67}	16.8	X	120.37810	355.34220	182.11544	12.45333	0.2034209	0.24103570	2.5571044	21	8 13.4	21.1
330688 2008 HR_{69}	16.3	X	81.06145	218.57413	103.14333	3.05356	0.1644792	0.17928108	3.1149165	21	12 21.2	21.1
330689 2008 JP_{1}	18.2	X	126.43692	260.59607	356.51461	1.91715	0.1834779	0.25861148	2.4398934	21	11 27.9	22.2
330690 2008 JX_{2}	16.9	X	96.50179	134.52838	140.87961	6.00509	0.2084859	0.25464855	2.4651418	21	11 26.9	20.9
330691 2008 JT_{11}	16.6	X	346.19982	188.72750	74.74838	6.91134	0.0199520	0.22780570	2.6551740	21	5 19.8	19.9
330692 2008 JG_{23}	17.3	X	96.57332	169.44187	67.93935	7.61413	0.1075885	0.24576265	2.5242098	21	10 2.4	21.0
330693 2008 JL_{28}	16.6	X	156.84534	332.88831	206.18993	11.24142	0.0443419	0.24595367	2.5229028	21	9 14.9	20.2
330694 2008 JP_{28}	17.3	X	187.07004	161.59497	187.58473	5.67526	0.1510337	0.28417125	2.2913035	21	2 11.3	20.8
330695 2008 KF_{2}	16.8	X	86.84939	87.25373	74.36210	27.09329	0.2789309	0.23296308	2.6158409	21	6 27.9	20.7
330696 2008 KC_{9}	17.0	X	171.03822	34.87802	99.66629	3.03949	0.1374560	0.24285179	2.5443402	21	8 6.8	20.9
330697 2008 KZ_{11}	16.1	X	22.35185	216.81072	137.74927	13.83065	0.3088278	0.24440256	2.5335660	21	12 27.9	19.4
330698 2008 KT_{12}	16.5	X	311.74247	110.07481	223.09772	11.04457	0.1910479	0.23164046	2.6257887	21	6 9.9	19.6
330699 2008 KU_{13}	16.2	X	81.32520	104.43206	108.29241	15.98232	0.1046190	0.23783804	2.5799730	21	8 7.9	19.7
330700 2008 KZ_{17}	17.3	X	145.90617	10.59387	160.76310	4.35607	0.1542175	0.24493098	2.5299206	21	8 29.4	21.3
330701 2008 KA_{30}	16.3	X	121.64197	67.43954	132.67382	14.97592	0.0802963	0.24301594	2.5431943	21	9 8.5	20.0
330702 2008 LW_{4}	16.1	X	350.72905	328.13143	263.89275	4.09803	0.0140542	0.21297324	2.7770649	21	4 12.9	19.9
330703 2008 LR_{10}	16.6	X	110.63888	129.77947	89.76359	5.76878	0.1012526	0.24450502	2.5328581	21	9 23.7	20.3
330704 2008 LX_{13}	16.2	X	333.30100	200.88686	106.94820	10.52366	0.2473326	0.22360649	2.6883127	21	6 6.2	18.7
330705 2008 LR_{15}	17.1	X	356.57672	212.59066	105.88865	3.95071	0.0978084	0.23828822	2.5767226	21	8 22.5	19.9
330706 2008 MY	16.4	X	22.43876	223.66035	79.07153	18.87800	0.2468222	0.23407943	2.6075174	21	10 16.2	19.6
330707 2008 NC_{5}	16.3	X	345.70566	201.65553	74.36584	11.16224	0.2317648	0.22104896	2.7090087	21	5 18.5	18.7
330708 2008 OS	16.2	X	327.86785	186.28008	127.48848	15.31014	0.2505558	0.22318806	2.6916717	21	6 5.1	19.2
330709 2008 OV_{7}	16.1	X	273.26912	207.19293	140.47664	12.97117	0.0758065	0.21831445	2.7315830	21	5 28.0	20.1
330710 2008 OD_{11}	16.6	X	34.13603	28.55531	246.23694	3.74608	0.2602964	0.23101475	2.6305279	21	9 14.7	19.4
330711 2008 OM_{14}	16.3	X	295.66292	5.13563	293.49461	7.45247	0.0803520	0.21361554	2.7714954	21	4 14.9	20.3
330712 2008 PR_{1}	16.6	X	232.88594	125.15013	172.93033	10.76882	0.0748258	0.19657357	2.9294492	21	2 5.9	21.1
330713 2008 PC_{8}	16.2	X	326.22448	6.73811	267.26643	7.52811	0.1723408	0.21487760	2.7606326	21	4 12.1	19.7
330714 2008 PB_{10}	15.9	X	215.37877	183.80325	168.43365	15.58937	0.1439740	0.20362655	2.8614079	21	3 25.3	20.6
330715 2008 PO_{14}	16.7	X	271.01993	172.65522	153.26388	5.62803	0.1075656	0.20968605	2.8060131	21	4 21.7	20.7
330716 2008 PS_{20}	15.7	X	194.29430	260.23802	127.57300	15.55534	0.1625015	0.20404868	2.8574602	21	4 22.9	20.7
330717 2008 PZ_{20}	16.0	X	316.08166	262.91035	49.70453	14.05032	0.2456150	0.21770920	2.7366433	21	5 10.2	19.1
330718 2008 QT_{4}	16.4	X	276.73259	157.44030	169.52794	12.37878	0.1075708	0.21290536	2.7776551	21	4 30.7	20.4
330719 2008 QH_{6}	15.5	X	295.73967	328.62507	197.82959	15.55172	0.0488471	0.17989117	3.1078699	21	—	—
330720 2008 QR_{23}	16.3	X	160.70006	61.03995	292.93968	6.16210	0.1163597	0.18656557	3.0332978	21	2 3.4	21.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
330721 2008 QZ_{25}	16.2	X	117.01132	211.49396	150.98406	8.15991	0.2082215	0.18319957	3.0703396	21	1 10.8	20.7
330722 2008 QT_{34}	16.3	X	315.84469	153.47772	170.43650	16.62052	0.1966089	0.21937834	2.7227445	21	6 5.5	19.8
330723 2008 QX_{43}	15.5	X	196.78436	271.36879	66.89304	11.39820	0.1475665	0.19528487	2.9423228	21	2 24.9	20.5
330724 2008 QZ_{46}	16.7	X	161.20372	353.98971	327.53198	4.73466	0.2083288	0.18432069	3.0578768	21	1 6.5	21.6
330725 2008 RM_{22}	15.8	X	92.85511	262.18742	136.95891	9.70226	0.1521059	0.18255002	3.0776186	21	1 17.8	19.8
330726 2008 RE_{47}	16.4	X	173.63756	135.72562	176.82020	4.30239	0.1668939	0.18224384	3.0810647	21	1 3.5	21.5
330727 2008 RO_{74}	16.5	X	145.43533	276.68531	68.28766	1.47513	0.1617378	0.18404373	3.0609439	21	1 14.8	21.3
330728 2008 RA_{91}	15.8	X	324.20425	312.30675	159.64286	19.50423	0.1365481	0.17189667	3.2034976	21	—	—
330729 2008 RP_{95}	16.1	X	213.45325	133.39079	170.90004	10.28727	0.1238957	0.19276288	2.9679308	21	1 24.9	21.0
330730 2008 RK_{103}	15.7	X	97.67272	166.95005	207.63255	12.71104	0.1228236	0.17693931	3.1423400	21	—	—
330731 2008 RV_{112}	16.2	X	195.80430	78.13189	216.35226	8.69954	0.0442212	0.18157910	3.0885796	21	—	—
330732 2008 RH_{119}	15.9	X	235.98416	33.31348	204.96602	11.09360	0.0447971	0.17735170	3.1374669	21	—	—
330733 2008 RA_{137}	15.7	X	110.89873	356.66061	329.04961	4.73186	0.1147430	0.16989543	3.2286050	21	—	—
330734 2008 RE_{140}	17.1	X	30.93174	206.23110	156.82209	9.35854	0.1730211	0.23863032	2.5742594	21	12 27.5	20.5
330735 2008 SB_{16}	16.5	X	230.91373	46.25348	232.61432	4.30027	0.1153727	0.18722660	3.0261539	21	1 13.3	21.3
330736 2008 SQ_{21}	16.6	X	194.90826	157.21963	155.82789	9.83570	0.0180228	0.18956977	3.0011658	21	1 15.8	21.1
330737 2008 SS_{25}	16.3	X	161.18013	153.77737	171.31914	11.16206	0.1023711	0.18186574	3.0853336	21	1 1.3	21.2
330738 2008 SS_{29}	16.4	X	152.37946	106.26757	219.73973	3.79781	0.1210601	0.17900332	3.1181380	21	—	—
330739 2008 SX_{30}	15.4	X	30.76687	171.07231	234.01658	10.08802	0.0836171	0.16759411	3.2580935	21	—	—
330740 2008 SN_{31}	15.6	X	60.09126	182.59436	217.20427	12.76143	0.1024053	0.17229870	3.1985125	21	—	—
330741 2008 ST_{34}	16.3	X	171.39473	98.42582	197.52705	4.74132	0.1222005	0.17669381	3.1452499	21	—	—
330742 2008 SH_{65}	15.4	X	156.99691	87.71535	216.57775	9.87384	0.0507991	0.17084831	3.2165891	21	—	—
330743 2008 SV_{86}	16.0	X	250.13256	330.41816	236.03676	7.90510	0.0218200	0.17310156	3.1886149	21	—	—
330744 2008 SZ_{91}	16.2	X	279.02926	196.92291	198.98043	11.53172	0.1501671	0.21744707	2.7388422	21	7 22.1	20.1
330745 2008 SW_{113}	15.8	X	144.49994	278.06887	41.84825	9.92385	0.0722870	0.17486769	3.1671089	21	—	—
330746 2008 SC_{114}	16.0	X	170.50840	130.33198	175.08505	11.37003	0.0668219	0.17712896	3.1400966	21	—	—
330747 2008 SX_{121}	16.0	X	200.46513	72.25544	209.66320	11.76792	0.0910755	0.17730374	3.1380326	21	—	—
330748 2008 SE_{124}	16.1	X	184.17503	95.13838	214.73244	8.80344	0.0869367	0.17992499	3.1074803	21	1 5.1	21.0
330749 2008 SO_{131}	15.5	X	40.49867	87.73666	18.28330	9.60872	0.0664242	0.17789334	3.1310950	21	1 21.2	19.7
330750 2008 SD_{135}	15.7	X	151.65512	105.98375	226.61447	9.62961	0.1140322	0.17940589	3.1134717	21	1 1.3	20.5
330751 2008 SV_{145}	15.0	X	228.17868	325.45275	245.43171	9.69573	0.0823613	0.17066538	3.2188872	21	12 31.7	19.8
330752 2008 SO_{147}	16.1	X	179.50427	43.90608	240.61962	7.92987	0.0466997	0.17607422	3.1526241	21	—	—
330753 2008 ST_{148}	15.7	X	61.67374	199.68115	184.42276	18.62848	0.2387168	0.16980636	3.2297340	21	—	—
330754 2008 SO_{149}	15.4	X	213.88039	71.35076	247.17266	10.01668	0.0561756	0.19310177	2.9644574	21	2 8.9	20.0
330755 2008 SA_{171}	15.9	X	356.70861	223.91006	200.34075	10.74963	0.0258401	0.16746058	3.2598253	21	12 22.4	20.5
330756 2008 SO_{178}	15.7	X	124.65284	174.98429	166.22092	11.78404	0.0822074	0.17911309	3.1168638	21	—	—
330757 2008 SE_{199}	15.7	X	349.19778	280.96258	245.47186	9.10762	0.0389284	0.19163957	2.9795174	21	1 18.7	19.8
330758 2008 SR_{199}	16.7	X	311.65984	121.69532	219.57783	6.87804	0.1128472	0.21417483	2.7666683	21	7 3.2	20.2
330759 2008 SO_{218}	12.8	X	179.51517	354.56822	348.45498	170.34433	0.5622993	0.04256226	8.1243052	21	3 16.7	23.8
330760 2008 SQ_{253}	16.2	X	24.40019	187.34025	135.34212	15.23975	0.2481032	0.22900693	2.6458810	21	11 10.4	19.5
330761 2008 SR_{256}	15.5	X	223.12423	253.09948	10.87470	16.64493	0.2808841	0.18301114	3.0724467	21	—	—
330762 2008 SZ_{256}	15.6	X	160.80027	221.43402	149.48812	11.44844	0.0975890	0.18916879	3.0054054	21	2 22.8	20.2
330763 2008 SW_{259}	16.4	X	314.06777	124.80064	247.86191	5.23743	0.0369826	0.22020908	2.7158924	21	8 27.3	20.0
330764 2008 SR_{264}	15.6	X	41.09043	303.41075	47.97402	10.37535	0.0462306	0.15503282	3.4317867	21	11 20.6	20.4
330765 2008 SD_{269}	15.9	X	353.54127	220.94271	70.90141	19.07587	0.3333086	0.21818677	2.7326485	21	6 23.6	17.5
330766 2008 SL_{272}	16.9	X	347.82822	54.86742	235.81517	3.58854	0.0809039	0.20916636	2.8106590	21	6 25.5	20.2
330767 2008 ST_{273}	16.6	X	230.81562	102.88793	176.13312	1.10333	0.1143543	0.18821200	3.0155823	21	1 13.9	21.4
330768 2008 SE_{274}	16.4	X	226.80490	141.44522	174.83468	6.40455	0.1283992	0.19433746	2.9518777	21	2 20.3	21.1
330769 2008 SE_{296}	16.2	X	229.50068	270.46206	71.86189	16.02110	0.2548158	0.20029372	2.8930626	21	3 29.0	21.5
330770 2008 SU_{300}	16.0	X	135.81855	285.54720	71.79541	6.24855	0.1524899	0.18237862	3.0795465	21	1 19.6	20.6
330771 2008 SJ_{301}	15.6	X	84.81656	3.88297	49.40577	12.31777	0.1393304	0.17938783	3.1136806	21	1 26.9	19.9
330772 2008 TW_{1}	15.9	X	162.21457	191.07136	114.94492	6.90393	0.1480781	0.17692950	3.1424561	21	—	—
330773 2008 TR_{3}	15.6	X	94.65052	141.87501	226.16983	4.32298	0.1288064	0.17365670	3.1818157	21	—	—
330774 2008 TA_{6}	16.6	X	310.29109	171.46136	201.82974	12.58149	0.1652340	0.22013178	2.7165282	21	8 4.9	19.9
330775 2008 TL_{6}	15.5	X	120.95584	291.69063	38.25158	26.66299	0.2363589	0.17182749	3.2043574	21	—	—
330776 2008 TH_{31}	16.2	X	167.13098	248.78717	63.52738	1.97734	0.1496008	0.17811758	3.1284666	21	—	—
330777 2008 TB_{37}	15.5	X	94.63755	304.48006	51.98022	16.56908	0.2598383	0.17215870	3.2002462	21	—	—
330778 2008 TH_{44}	16.4	X	171.33139	268.40462	22.44520	1.63774	0.1870598	0.17256138	3.1952657	21	—	—
330779 2008 TV_{48}	16.7	X	129.41191	161.68792	207.43482	1.48572	0.1018509	0.18583664	3.0412246	21	1 18.5	21.0
330780 2008 TZ_{54}	15.2	X	157.36498	260.95016	207.09889	12.25049	0.2014273	0.12466134	3.9686993	21	6 22.4	21.8
330781 2008 TW_{61}	15.6	X	129.31235	315.09413	20.62589	10.01883	0.1052357	0.17390514	3.1787847	21	—	—
330782 2008 TE_{101}	16.6	X	275.09013	51.53490	211.80828	5.01054	0.1850675	0.19239640	2.9716986	21	1 29.8	21.3
330783 2008 TZ_{105}	16.2	X	186.12453	91.99945	175.37489	8.45137	0.0479343	0.17266255	3.1940174	21	—	—
330784 2008 TH_{122}	16.1	X	148.08916	116.62907	228.76057	8.59677	0.1469356	0.18098999	3.0952782	21	1 14.8	21.0
330785 2008 TE_{162}	14.8	X	121.59397	260.06419	104.88748	27.85974	0.1585399	0.17602439	3.1532191	21	1 14.0	19.4
330786 2008 TO_{177}	15.6	X	108.53494	295.34130	83.72470	13.85355	0.1464681	0.17762711	3.1342230	21	1 14.8	20.1
330787 2008 UX_{43}	16.8	X	203.18747	92.84247	227.29920	0.96188	0.1957842	0.18892107	3.0080320	21	2 5.2	21.7
330788 2008 UK_{75}	14.9	X	205.82088	131.81240	296.36625	3.69684	0.1478223	0.12337847	3.9961623	21	6 17.3	21.1
330789 2008 UN_{117}	15.5	X	157.92622	122.30277	235.55765	16.20029	0.2477982	0.18394112	3.0620821	21	2 9.8	21.0
330790 2008 UV_{130}	16.2	X	136.02283	83.13786	240.79188	3.89646	0.1427740	0.17104867	3.2140768	21	—	—
330791 2008 UQ_{136}	15.3	X	139.74540	278.26129	45.29771	6.34372	0.1482165	0.17164398	3.2066410	21	—	—
330792 2008 UO_{160}	15.9	X	196.45272	267.74762	56.51325	13.49140	0.2615001	0.18293920	3.0732522	21	2 11.6	21.6
330793 2008 UR_{174}	15.7	X	186.93977	59.41046	250.40361	12.27195	0.1607085	0.18296536	3.0729593	21	1 9.7	20.8
330794 2008 UW_{180}	15.6	X	287.89570	5.18563	248.68758	9.89831	0.0909752	0.18327215	3.0695289	21	2 10.5	20.2
330795 2008 UQ_{202}	15.2	X	175.94424	78.78707	227.41447	9.54463	0.0662368	0.17721390	3.1390931	21	—	—
330796 2008 UK_{205}	15.1	X	124.84861	290.20154	89.99779	27.32920	0.2339915	0.18020506	3.1042598	21	2 19.1	20.3
330797 2008 UA_{255}	15.4	X	128.43626	253.49473	71.14637	15.13331	0.1271227	0.17232161	3.1982290	21	—	—
330798 2008 UM_{255}	15.0	X	208.05355	211.86143	88.74702	12.11602	0.1228837	0.18413651	3.0599156	21	1 19.4	19.9
330799 2008 UE_{283}	15.9	X	164.61450	169.86055	132.19147	2.29008	0.1409549	0.17333759	3.1857196	21	—	—
330800 2008 UL_{307}	15.5	X	127.40593	291.90411	88.19314	14.25745	0.2305205	0.18132622	3.0914506	21	2 18.9	20.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
330801 2008 UZ_{312}	15.6	X	172.77419	236.08837	51.75754	18.06960	0.1162023	0.17178474	3.2048890	21	—	—
330802 2008 UV_{313}	15.7	X	97.63081	121.48728	239.85008	11.88253	0.1275040	0.17106986	3.2138114	21	—	—
330803 2008 UF_{331}	15.6	X	221.73187	33.14198	221.97805	16.94994	0.1804581	0.17728723	3.1382274	21	—	—
330804 2008 UU_{334}	16.3	X	191.55833	149.02956	159.80197	2.24469	0.1868678	0.18029471	3.1032306	21	1 15.3	21.6
330805 2008 UV_{344}	16.3	X	245.71501	270.30859	68.51467	9.45880	0.3228037	0.19860043	2.9094837	21	3 29.4	21.6
330806 2008 UW_{345}	15.9	X	29.95369	214.98839	140.00234	19.90789	0.3119421	0.23529266	2.5985463	21	—	—
330807 2008 UD_{361}	15.3	X	95.19834	229.22550	263.85630	15.03384	0.1272803	0.19327560	2.9626797	21	5 11.9	19.6
330808 2008 UU_{370}	16.5	X	117.48935	242.65328	268.32306	7.44159	0.0866211	0.26536116	2.3983422	21	6 26.3	19.5
330809 2008 VK_{14}	19.2	X	245.92489	30.02307	308.17285	6.90986	0.5057484	0.51474952	1.5419564	21	2 24.9	22.2
330810 2008 VO_{21}	16.0	X	188.93149	264.82920	69.10594	9.85401	0.1360179	0.18335597	3.0685934	21	2 12.5	21.1
330811 2008 VK_{27}	15.5	X	201.81459	11.45431	244.11008	5.26843	0.0845349	0.17157394	3.2075136	21	—	—
330812 2008 VX_{34}	15.7	X	108.04773	215.57667	152.43165	5.04611	0.1777566	0.17077755	3.2174776	21	1 5.8	20.3
330813 2008 VZ_{49}	15.4	X	352.96833	342.82099	14.49120	10.22576	0.0975981	0.14746317	3.5482456	21	9 28.2	19.9
330814 2008 VK_{53}	14.9	X	166.88611	254.20055	58.55676	27.16547	0.2151565	0.17850384	3.1239519	21	—	—
330815 2008 VU_{65}	15.3	X	145.31378	251.60828	63.52607	22.62645	0.1106763	0.16902206	3.2397174	21	—	—
330816 2008 VG_{75}	15.6	X	152.73014	259.74685	75.10880	15.32514	0.2480700	0.18039316	3.1021015	21	1 18.8	20.9
330817 2008 WH	15.7	X	136.86721	275.83926	62.97499	12.68223	0.1651244	0.17437267	3.1731001	21	1 1.0	20.6
330818 2008 WN_{15}	15.8	X	146.17969	119.08487	215.97931	10.50462	0.1329562	0.17640366	3.1486979	21	—	—
330819 2008 WA_{22}	16.1	X	246.05216	90.45373	238.58544	15.86866	0.0384335	0.19217398	2.9739911	21	3 30.4	20.6
330820 2008 WH_{62}	15.3	X	161.69663	107.53127	243.75585	20.53593	0.2103185	0.17896908	3.1185356	21	2 1.9	20.9
330821 2008 WS_{76}	15.5	X	121.87535	260.09410	90.52516	6.38060	0.1722577	0.17073703	3.2179867	21	—	—
330822 2008 WA_{91}	15.4	X	195.13346	215.63866	206.30114	10.03825	0.2673635	0.12416810	3.9792024	21	5 30.5	22.2
330823 2008 WM_{97}	15.5	X	102.55027	297.43321	75.87675	19.95434	0.1410502	0.17321304	3.1872466	21	—	—
330824 2008 WZ_{136}	14.9	X	211.12200	52.46483	279.48065	17.03948	0.0789767	0.17915849	3.1163373	21	2 19.8	20.0
330825 2008 XE_{3}	16.3	X	33.23047	44.42094	315.21200	7.47648	0.5506150	0.23407957	2.6075164	21	—	—
330826 2009 BV_{59}	17.9	X	89.16518	326.85548	232.95199	2.42703	0.1075874	0.27253609	2.3560619	21	7 30.6	20.9
330827 2009 DM_{33}	18.0	X	315.08254	285.49600	167.07375	22.00927	0.1288034	0.37397589	1.9079792	21	—	—
330828 2009 EQ_{3}	17.7	X	307.47186	291.55523	170.17760	22.75533	0.1250413	0.37777352	1.8951709	21	—	—
330829 2009 FY	17.5	X	93.69246	158.06128	173.29235	23.04158	0.0610066	0.37474292	1.9053748	21	—	—
330830 2009 FC_{15}	17.6	X	87.97237	250.12411	324.06999	0.91709	0.1338423	0.26823336	2.3811908	21	8 22.9	20.8
330831 2009 FS_{29}	17.8	X	204.70531	118.10703	2.52591	6.11852	0.1709075	0.27584836	2.3371636	21	8 23.2	21.4
330832 2009 FG_{30}	17.6	X	307.08985	233.30737	193.60930	21.61499	0.1197423	0.36444850	1.9410882	21	12 2.3	19.4
330833 2009 FG_{67}	16.3	X	33.57573	74.91914	34.67528	14.93643	0.0656807	0.22986679	2.6392785	21	—	—
330834 2009 HS_{36}	17.1	X	231.04282	259.23269	211.10627	21.29077	0.0987278	0.35468281	1.9765567	21	9 16.4	19.6
330835 2009 HC_{42}	17.2	X	171.57769	56.13803	67.76283	7.33988	0.0647190	0.26198229	2.4189196	21	7 25.3	20.6
330836 Orius	9.9	X	52.00614	141.18010	50.42247	17.87040	0.4175344	0.00986532	21.5308860	21	7 16.3	22.8
330837 2009 MQ_{2}	17.5	X	90.29938	243.20152	117.68331	6.77479	0.2237621	0.27691455	2.3311606	21	—	—
330838 2009 ND	16.0	X	61.16118	113.92214	222.54124	21.19443	0.2671943	0.26180890	2.4199874	21	—	—
330839 2009 OS_{4}	16.6	X	34.80879	86.59647	246.39397	5.85500	0.1144072	0.25867244	2.4395100	21	11 18.1	19.5
330840 2009 OW_{4}	16.0	X	41.97150	100.37784	242.72698	11.13237	0.2833194	0.25841870	2.4411067	21	—	—
330841 2009 OE_{8}	16.8	X	275.47203	167.03392	161.29106	14.91597	0.2641373	0.23087722	2.6315724	21	4 10.5	21.0
330842 2009 OR_{8}	18.0	X	219.50445	110.86243	195.56123	5.18948	0.1969106	0.29727777	2.2234520	21	1 18.6	21.6
330843 2009 OC_{20}	17.4	X	175.85600	68.43549	260.11673	3.55855	0.2580629	0.28883144	2.2665905	21	1 14.3	21.1
330844 2009 OR_{22}	17.8	X	273.42287	177.05109	110.69664	3.60976	0.1811848	0.30705833	2.1759828	21	2 13.4	21.0
330845 2009 PD_{3}	17.0	X	63.08638	85.52757	249.34511	5.61937	0.1380670	0.26582774	2.3955350	21	12 30.8	20.4
330846 2009 PX_{3}	16.9	X	78.69916	44.88175	271.23600	5.00984	0.1160890	0.26503684	2.4002983	21	12 22.0	20.0
330847 2009 PZ_{4}	17.0	X	30.87906	191.90040	169.61056	4.31586	0.1829077	0.26077580	2.4263747	21	12 31.9	20.1
330848 2009 PT_{5}	17.3	X	213.66967	334.53424	332.27777	4.51418	0.2654935	0.29420550	2.2389042	21	1 18.1	21.1
330849 2009 PO_{8}	17.3	X	97.40798	218.59495	137.81286	3.21421	0.2155087	0.27410748	2.3470488	21	—	—
330850 2009 PB_{12}	17.1	X	19.05060	164.69051	194.47402	2.11639	0.2067747	0.25723938	2.4485619	21	12 15.5	19.7
330851 2009 PP_{12}	16.0	X	57.35790	242.55139	149.67161	10.70572	0.1533838	0.18739628	3.0243270	21	—	—
330852 2009 PE_{15}	16.0	X	60.96916	58.21546	282.54534	2.87415	0.2403465	0.17984607	3.1083893	21	12 31.9	20.8
330853 2009 PR_{15}	16.0	X	107.27359	7.67604	177.57416	15.69529	0.0686967	0.23523429	2.5989762	21	7 25.5	19.8
330854 2009 PJ_{19}	17.6	X	208.01806	112.70726	148.83355	6.47318	0.1765719	0.28280960	2.2986523	21	—	—
330855 2009 QH_{1}	17.6	X	101.37828	141.57571	203.91045	7.10739	0.2341113	0.27407262	2.3472478	21	—	—
330856 Ernsthelene	17.2	X	34.28705	168.76068	187.09875	6.25050	0.1588295	0.26009293	2.4306197	21	12 25.2	20.3
330857 2009 QN_{19}	17.2	X	112.12943	190.60651	145.56019	8.33467	0.2247114	0.27397683	2.3477949	21	—	—
330858 2009 QP_{23}	17.0	X	43.37293	297.66321	84.15469	2.87786	0.2402210	0.26560984	2.3968450	21	—	—
330859 2009 QP_{29}	16.7	X	236.22036	182.36872	204.43118	8.40536	0.3179343	0.22614611	2.6681483	21	5 13.3	21.5
330860 2009 QN_{30}	16.3	X	15.41868	136.52341	223.42614	14.98728	0.0996511	0.25616046	2.4554325	21	11 24.2	19.1
330861 2009 QM_{31}	17.4	X	62.89343	211.81022	126.45030	1.29189	0.2360183	0.26282382	2.4137534	21	—	—
330862 2009 QZ_{33}	17.7	X	314.63142	147.86793	128.93384	3.60473	0.0940708	0.31024364	2.1610632	21	4 3.1	20.0
330863 2009 QT_{41}	17.5	X	113.68823	201.58676	125.54409	3.99153	0.1665513	0.27222841	2.3578369	21	—	—
330864 2009 QK_{42}	15.5	X	354.46338	51.12620	350.79648	26.51436	0.0768625	0.17704393	3.1411019	21	11 17.1	20.2
330865 2009 QE_{46}	16.0	X	43.67801	181.14557	161.36536	13.22867	0.2009184	0.17595842	3.1540072	21	12 10.6	20.6
330866 2009 QJ_{47}	18.6	X	176.12376	266.92446	66.96366	4.59458	0.2510073	0.28882345	2.2666324	21	1 21.9	22.2
330867 2009 QB_{48}	17.0	X	85.70595	177.01477	154.64185	8.62155	0.2417737	0.26615999	2.3935410	21	—	—
330868 2009 QO_{51}	17.6	X	28.14708	358.72454	326.55618	2.89094	0.1607546	0.25273785	2.4775505	21	11 2.8	20.3
330869 2009 QR_{51}	17.8	X	109.92423	128.57624	203.98396	1.02387	0.2038829	0.27241946	2.3567344	21	—	—
330870 2009 QT_{61}	17.3	X	29.41528	308.41541	56.38178	2.10030	0.1843814	0.25943555	2.4347240	21	—	—
330871 2009 RF	17.6	X	75.56841	84.22311	225.94985	0.73613	0.1845512	0.26217801	2.4177156	21	12 17.6	21.2
330872 2009 RF_{1}	16.6	X	107.41981	32.78747	279.94354	5.91089	0.1821975	0.26825747	2.3810481	21	—	—
330873 2009 RQ_{1}	17.3	X	81.35842	143.13906	194.13531	1.67782	0.2220497	0.26597677	2.3946400	21	—	—
330874 2009 RV_{9}	17.7	X	72.52989	349.31040	350.19720	1.62802	0.1825207	0.26312926	2.4118851	21	—	—
330875 2009 RY_{9}	16.5	X	337.71926	4.78359	190.24058	10.90250	0.0448559	0.20560347	2.8430364	21	2 4.2	20.6
330876 2009 RR_{17}	16.8	X	274.17644	166.68510	180.59503	9.82315	0.0178591	0.22512191	2.6762348	21	6 4.0	20.6
330877 2009 RF_{22}	17.2	X	321.97789	93.82864	272.31113	4.31463	0.1585191	0.24611300	2.5218138	21	8 21.9	19.8
330878 2009 RL_{26}	17.2	X	119.02435	314.29606	19.50685	7.53606	0.1821662	0.27414232	2.3468500	21	—	—
330879 2009 RX_{28}	17.5	X	103.57859	154.94300	179.65993	5.01956	0.1477823	0.27147260	2.3622112	21	—	—
330880 2009 RV_{30}	17.5	X	171.85337	100.60309	213.77698	4.72993	0.1795425	0.28153591	2.3055799	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
330881 2009 RL_{33}	16.4	X	290.24091	352.30306	2.64568	3.25917	0.3281866	0.23252808	2.6191022	21	5 17.2	20.1
330882 2009 RJ_{34}	16.5	X	255.62778	312.71707	18.07531	5.92003	0.0695645	0.21628095	2.7486780	21	4 11.6	20.4
330883 2009 RH_{35}	16.4	X	78.49129	43.37781	202.24183	8.45633	0.1185713	0.23900566	2.5715635	21	9 16.4	19.9
330884 2009 RG_{40}	16.6	X	48.53227	256.67360	333.77586	9.80294	0.1021130	0.23098107	2.6307836	21	7 15.3	19.8
330885 2009 RG_{48}	16.9	X	186.50973	220.77432	197.92082	1.54402	0.0841674	0.21960080	2.7209053	21	5 16.1	20.8
330886 2009 RW_{49}	16.9	X	29.63932	240.40645	200.66243	3.43482	0.1190716	0.18623404	3.0368966	21	—	—
330887 2009 RZ_{50}	15.8	X	3.49892	217.55757	20.31365	15.19498	0.0851890	0.22010337	2.7167619	21	5 3.3	19.2
330888 2009 RL_{54}	17.0	X	2.29827	255.81861	48.57223	5.00268	0.0570506	0.23428914	2.6059612	21	8 11.1	20.1
330889 2009 RO_{55}	16.2	X	262.49679	272.61779	54.38163	4.52875	0.0494449	0.21664909	2.7455633	21	4 18.7	19.9
330890 2009 RM_{61}	16.8	X	306.39213	256.16468	131.17187	7.76301	0.2311118	0.24488630	2.5302284	21	8 14.4	19.0
330891 2009 RY_{70}	18.0	X	131.42403	120.05194	160.98955	1.45182	0.1729474	0.26608673	2.3939803	21	—	—
330892 2009 RF_{74}	17.0	X	101.47072	24.70556	43.99078	6.34681	0.0248029	0.20063227	2.8898072	21	2 16.2	21.0
330893 2009 SW_{7}	17.3	X	21.27050	125.61916	236.11852	5.76079	0.1293259	0.25726724	2.4483851	21	12 9.9	20.2
330894 2009 SS_{17}	16.0	X	153.09907	110.13843	297.32075	4.33361	0.0697423	0.21143437	2.7905233	21	3 23.2	20.1
330895 2009 SZ_{18}	17.1	X	105.54204	355.22505	186.46671	4.29938	0.1283563	0.23305156	2.6151787	21	7 27.7	20.8
330896 2009 SX_{22}	17.6	X	232.74097	43.07293	242.74119	3.88761	0.1513521	0.29518360	2.2339558	21	1 5.5	21.1
330897 2009 SV_{30}	17.6	X	350.06154	342.46716	180.04014	8.04018	0.0467724	0.28265224	2.2995054	21	—	—
330898 2009 SA_{34}	16.8	X	264.22281	21.50777	346.80771	5.20053	0.0815186	0.22695249	2.6618245	21	6 7.8	20.5
330899 2009 SX_{38}	17.1	X	343.57444	332.10585	352.32628	2.47274	0.2022286	0.23879129	2.5731023	21	8 2.6	19.2
330900 2009 SS_{43}	17.0	X	346.99872	287.04953	314.77243	3.37539	0.0157397	0.21524364	2.7575020	21	4 20.6	20.7
330901 2009 SH_{53}	16.3	X	145.14298	216.49737	214.49606	8.78843	0.1037617	0.21405422	2.7677075	21	4 17.8	20.3
330902 2009 SR_{56}	17.1	X	57.41288	86.58414	250.31746	5.45254	0.1262412	0.25726274	2.4484136	21	12 23.9	20.3
330903 2009 SG_{66}	17.3	X	246.07694	238.60585	111.32127	3.25333	0.0803633	0.21869276	2.7284318	21	4 25.3	21.3
330904 2009 SR_{66}	17.0	X	208.32631	209.37180	160.54965	3.91272	0.1060390	0.21396642	2.7684646	21	4 8.6	21.2
330905 2009 SE_{67}	16.5	X	106.86357	21.02817	25.19011	3.31571	0.0221628	0.19226310	2.9730720	21	1 25.6	20.7
330906 2009 SX_{73}	17.5	X	83.89498	164.98719	143.57417	4.92759	0.1458679	0.25767121	2.4458254	21	12 19.8	21.2
330907 2009 SP_{74}	16.4	X	133.24204	277.44625	102.06127	4.24652	0.1390407	0.19816811	2.9137136	21	2 7.9	20.6
330908 2009 SX_{74}	16.7	X	183.17500	275.41257	126.95968	4.50112	0.0992078	0.21410018	2.7673113	21	4 24.2	21.0
330909 2009 SC_{75}	17.6	X	323.95212	227.89796	105.02762	3.99146	0.1471296	0.23432107	2.6057244	21	7 8.6	20.2
330910 2009 SD_{77}	16.2	X	297.35669	24.69192	134.08913	5.98177	0.0782873	0.18203030	3.0834738	21	—	—
330911 2009 SG_{88}	16.9	X	253.78283	303.70224	55.42525	7.77138	0.0590393	0.22212018	2.7002919	21	5 17.2	20.5
330912 2009 SQ_{92}	16.0	X	0.59527	49.93868	36.43265	10.07961	0.0697014	0.17745952	3.1361959	21	—	—
330913 2009 SX_{92}	16.2	X	136.13064	236.83790	83.61940	2.23134	0.1810290	0.19101131	2.9860471	21	—	—
330914 2009 SW_{96}	16.1	X	24.32062	254.00113	224.08105	10.76433	0.0432819	0.18803297	3.0174960	21	1 6.6	20.2
330915 2009 SN_{102}	16.2	X	196.48460	336.39820	45.50385	13.00432	0.2849232	0.21288038	2.7778724	21	4 14.0	21.3
330916 2009 SS_{102}	16.8	X	204.76439	295.25398	83.98657	4.30605	0.1019096	0.21566747	2.7538881	21	4 17.2	21.0
330917 2009 SH_{104}	15.4	X	6.31286	309.11364	25.83613	13.92036	0.2126660	0.24034981	2.5619670	21	10 15.9	17.5
330918 2009 SA_{108}	15.3	X	17.78319	227.53613	212.71562	18.30975	0.1691231	0.17954258	3.1118912	21	—	—
330919 2009 SC_{108}	16.2	X	9.08660	227.46707	210.99912	11.31506	0.0802176	0.17807992	3.1289077	21	—	—
330920 2009 SY_{125}	16.2	X	183.51893	253.56589	209.31006	13.29105	0.0228706	0.22936879	2.6430974	21	7 7.1	20.1
330921 2009 SP_{131}	17.5	X	112.87701	143.87476	153.40159	3.38490	0.1757871	0.26297074	2.4128543	21	—	—
330922 2009 SY_{132}	17.2	X	297.38621	280.10036	54.22588	4.34377	0.1042439	0.22845507	2.6501402	21	6 3.2	20.6
330923 2009 SV_{137}	16.6	X	313.51679	221.09178	24.28868	7.69370	0.1088742	0.21018646	2.8015577	21	3 3.8	20.4
330924 2009 SL_{154}	17.1	X	265.12584	143.75018	181.84865	5.63388	0.0319635	0.21910473	2.7250107	21	4 22.3	20.8
330925 2009 SW_{161}	17.4	X	146.44699	13.28730	297.47138	3.40393	0.1559671	0.27781533	2.3261189	21	—	—
330926 2009 SD_{177}	16.5	X	354.06233	42.11108	205.16187	9.35552	0.1326287	0.22481443	2.6786744	21	5 1.7	19.3
330927 2009 SG_{187}	15.6	X	315.48493	96.68956	51.07025	10.02314	0.0646559	0.18423060	3.0588736	21	—	—
330928 2009 SB_{188}	17.1	X	227.17365	257.73457	73.88191	5.94735	0.0522747	0.20960009	2.8067802	21	3 16.6	21.3
330929 2009 SU_{191}	17.5	X	180.13559	303.71706	0.77039	6.67376	0.1413118	0.28663841	2.2781368	21	—	—
330930 2009 SL_{201}	17.0	X	111.15818	354.81779	96.71599	1.63636	0.0382545	0.20945320	2.8080924	21	3 27.7	20.7
330931 2009 SH_{202}	17.9	X	88.80788	280.23141	55.85199	2.70751	0.2177395	0.26616156	2.3935316	21	—	—
330932 2009 SG_{213}	16.7	X	120.32390	260.04663	30.75283	6.61251	0.1494860	0.26226285	2.4171941	21	—	—
330933 2009 SS_{213}	17.9	X	153.74807	102.02044	181.31427	1.22499	0.1821140	0.27006416	2.3704169	21	—	—
330934 Natevanwey	17.1	X	289.81828	132.45545	206.63146	2.20589	0.1300709	0.22622948	2.6674927	21	5 26.6	20.4
330935 2009 SQ_{229}	16.4	X	238.35151	25.50138	336.47569	5.00077	0.0434720	0.22243385	2.6977527	21	5 1.5	20.3
330936 2009 SB_{230}	16.8	X	238.83299	191.75397	190.22474	13.04436	0.1489238	0.22724981	2.6595023	21	5 21.9	21.0
330937 2009 SF_{231}	16.4	X	143.32723	220.33772	193.09570	8.42035	0.1831614	0.20919227	2.8104269	21	4 2.2	20.8
330938 2009 SP_{233}	17.4	X	53.51502	155.92550	199.54761	5.38419	0.1715277	0.26403553	2.4063629	21	—	—
330939 2009 SP_{234}	16.1	X	206.38203	335.06607	93.89786	14.09671	0.0963577	0.22501997	2.6770430	21	6 19.6	20.1
330940 2009 SW_{236}	17.0	X	43.72923	291.02187	90.28093	9.44315	0.2123028	0.26453905	2.4033085	21	—	—
330941 2009 SY_{238}	16.8	X	250.14916	269.83909	149.15049	11.58670	0.1557320	0.23188151	2.6239686	21	7 18.3	20.7
330942 2009 SL_{244}	17.1	X	264.14332	220.37247	130.98204	3.68419	0.0665089	0.22232009	2.6986729	21	5 20.0	20.8
330943 2009 SC_{267}	15.2	X	230.18658	212.59702	23.66094	21.97897	0.0487466	0.18549802	3.0449246	21	—	—
330944 2009 SY_{274}	16.4	X	132.95905	235.99046	63.77011	2.21070	0.1654859	0.18536356	3.0463969	21	—	—
330945 2009 SX_{276}	17.2	X	182.00770	256.79950	30.34082	5.65071	0.2262886	0.28017474	2.3130413	21	—	—
330946 2009 SC_{278}	17.5	X	277.21078	208.37384	158.53512	4.42375	0.1248101	0.23128701	2.6284631	21	6 17.2	21.0
330947 2009 SG_{279}	17.0	X	106.98993	100.12705	164.23039	6.18476	0.1049130	0.25326807	2.4740915	21	11 15.9	20.6
330948 2009 SH_{283}	16.2	X	25.07072	335.80067	83.58821	4.33302	0.2236470	0.18072641	3.0982869	21	—	—
330949 2009 SG_{284}	16.1	X	10.81692	43.55989	73.05769	6.65127	0.1580464	0.18894575	3.0077700	21	—	—
330950 2009 SR_{293}	17.3	X	278.63972	6.76843	18.93976	1.42466	0.1257099	0.23327695	2.6134939	21	7 15.1	20.5
330951 2009 SW_{293}	17.4	X	232.20198	305.96772	68.33276	6.20656	0.0929262	0.22079168	2.7111128	21	5 9.2	21.3
330952 2009 SD_{306}	17.9	X	88.66844	287.30990	24.08229	2.51169	0.2063715	0.26277061	2.4140793	21	—	—
330953 2009 SL_{329}	16.8	X	275.85578	306.72371	53.00649	12.84976	0.1992946	0.22972257	2.6403831	21	5 24.7	20.7
330954 2009 SW_{329}	17.0	X	151.81084	235.14366	74.43741	3.77684	0.2258550	0.27671124	2.3323024	21	—	—
330955 2009 SF_{338}	16.6	X	237.52716	279.95827	97.00666	5.40288	0.1249841	0.22199952	2.7012702	21	5 16.0	20.6
330956 2009 SO_{339}	16.0	X	139.18167	316.67943	66.98596	11.74449	0.0777705	0.19325394	2.9629011	21	2 16.8	20.5
330957 2009 SF_{340}	17.2	X	127.94737	308.55687	107.84267	3.20068	0.0676034	0.20519098	2.8468453	21	3 9.3	21.1
330958 2009 SK_{341}	17.1	X	22.98810	37.77503	240.61819	6.68465	0.1666681	0.23793489	2.5792729	21	8 13.7	19.9
330959 2009 SA_{344}	17.1	X	258.78421	228.00480	150.85719	6.77852	0.1290669	0.22726140	2.6594118	21	6 10.2	21.0
330960 2009 SP_{344}	17.2	X	243.22967	219.70119	144.00797	2.39223	0.0916672	0.22141595	2.7060144	21	5 7.9	21.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
330961 2009 SR_{344}	17.3	X	182.22458	259.61032	177.95010	5.11833	0.0934883	0.22149436	2.7053758	21	6 5.2	21.4
330962 2009 SV_{345}	16.4	X	90.28544	46.48281	186.51734	5.56427	0.2114557	0.23954914	2.5676726	21	9 26.8	20.2
330963 2009 SX_{345}	17.4	X	358.69465	133.34766	212.96958	14.37519	0.1715139	0.24515217	2.5283987	21	10 10.7	19.9
330964 2009 SF_{346}	17.6	X	271.13442	262.16914	107.33459	3.01894	0.0918310	0.23082514	2.6319682	21	6 17.5	21.0
330965 2009 SL_{347}	15.9	X	131.77329	1.22741	52.53075	10.16071	0.1272560	0.20492214	2.8493346	21	3 21.6	20.2
330966 2009 SB_{349}	17.1	X	259.76614	298.93044	31.10128	2.07060	0.0643458	0.21592675	2.7516831	21	4 16.5	20.7
330967 2009 SK_{349}	16.3	X	88.78477	78.36419	43.69191	6.97168	0.0692626	0.21127502	2.7919263	21	4 12.0	20.0
330968 2009 SX_{353}	16.5	X	358.82574	317.62338	19.87002	0.71567	0.2161591	0.23778007	2.5803924	21	10 2.1	18.7
330969 2009 SM_{357}	16.7	X	239.99766	157.54368	228.61729	4.33568	0.0205168	0.22425638	2.6831164	21	6 9.6	20.3
330970 2009 SP_{357}	16.7	X	296.03722	225.36027	155.52497	13.76006	0.1785952	0.23510293	2.5999442	21	7 23.9	20.0
330971 2009 SB_{358}	16.6	X	267.76346	114.95758	225.65286	2.66015	0.0882991	0.21791524	2.7349181	21	5 6.6	20.2
330972 2009 TC_{1}	17.7	X	80.94710	119.54585	199.66992	0.65840	0.1966224	0.26095631	2.4252556	21	—	—
330973 2009 TH_{1}	16.0	X	23.38824	29.19322	45.85233	14.01989	0.0272862	0.18485734	3.0519558	21	—	—
330974 2009 TR_{1}	17.2	X	61.14873	141.71587	213.35716	12.96352	0.1396734	0.26405497	2.4062448	21	—	—
330975 2009 TL_{6}	15.2	X	28.32703	51.79976	27.10402	18.48020	0.1103503	0.18160595	3.0882752	21	—	—
330976 2009 TY_{10}	16.2	X	343.05263	123.62035	198.40353	10.17994	0.0629301	0.23357184	2.6112938	21	7 30.6	19.5
330977 2009 TY_{11}	15.5	X	8.02220	21.38640	64.45623	13.82624	0.1399759	0.17905196	3.1175732	21	—	—
330978 2009 TR_{13}	16.2	X	288.65935	172.71874	219.48188	13.66007	0.2624104	0.23333806	2.6130376	21	7 12.2	19.9
330979 2009 TV_{15}	15.6	X	343.44050	328.80212	118.84030	8.68980	0.1268683	0.17571919	3.1568692	21	—	—
330980 2009 TD_{21}	16.4	X	201.91831	299.49073	101.38176	6.24744	0.0574381	0.21913460	2.7247631	21	5 12.2	20.4
330981 2009 TQ_{22}	16.2	X	150.25184	217.18504	204.58346	5.75734	0.0612779	0.20950633	2.8076176	21	4 8.3	20.1
330982 2009 TX_{26}	16.2	X	265.02415	287.20371	70.82582	11.67274	0.2160432	0.22607332	2.6687210	21	5 11.7	20.3
330983 2009 TV_{35}	17.4	X	132.77954	55.91882	258.72111	1.34847	0.2219033	0.27272672	2.3549639	21	—	—
330984 2009 TH_{41}	16.2	X	249.10131	356.80806	15.53749	8.83202	0.1210324	0.22356825	2.6886192	21	5 19.4	20.2
330985 2009 TB_{46}	16.3	X	3.95465	193.32880	69.95536	15.12074	0.1517104	0.22118672	2.7078838	21	6 12.2	19.0
330986 2009 TQ_{47}	16.5	X	220.56468	296.81361	97.20807	6.04870	0.1237906	0.22121591	2.7076456	21	5 20.2	20.7
330987 2009 UH_{11}	17.3	X	188.13120	259.83776	134.85420	5.04069	0.0862668	0.21523305	2.7575924	21	4 19.6	21.5
330988 2009 UT_{12}	16.1	X	24.95380	22.51636	33.42928	7.10936	0.0758630	0.18306135	3.0718849	21	—	—
330989 2009 UX_{24}	16.0	X	321.24967	239.55602	229.03384	3.91393	0.1324492	0.17244300	3.1967279	21	12 29.5	19.9
330990 2009 UY_{24}	16.1	X	278.20647	275.60896	39.82236	13.91379	0.1122795	0.21657976	2.7461493	21	4 15.9	20.1
330991 2009 UU_{25}	16.4	X	63.78835	62.70035	208.46516	28.16397	0.1132820	0.24175997	2.5519948	21	9 30.6	20.0
330992 2009 UM_{27}	15.9	X	307.45070	311.05825	53.67035	18.67747	0.1880486	0.23317497	2.6142559	21	7 23.1	19.2
330993 2009 UF_{28}	17.1	X	310.36955	179.06658	185.90238	2.79798	0.1782157	0.23456464	2.6039203	21	7 25.9	19.8
330994 2009 UH_{28}	15.8	X	63.02547	242.43995	33.08202	14.67578	0.1674268	0.24194776	2.5506741	21	10 17.6	19.2
330995 2009 UH_{32}	15.9	X	49.19975	228.69195	225.12748	6.84272	0.0971084	0.18955345	3.0013381	21	1 12.8	19.7
330996 2009 UT_{33}	17.0	X	157.33087	65.69667	55.31728	8.96723	0.0832995	0.22000894	2.7175392	21	7 3.7	21.2
330997 2009 UJ_{35}	17.1	X	326.84761	157.42688	192.42297	1.38900	0.1841915	0.23436882	2.6053705	21	8 4.4	19.3
330998 2009 UC_{37}	17.0	X	2.32542	282.40842	47.24738	3.90687	0.1198316	0.24023193	2.5628050	21	9 20.8	19.7
330999 2009 UJ_{46}	16.1	X	295.37780	293.39153	45.23877	7.33216	0.0887149	0.22376137	2.6870720	21	6 8.4	19.6
331000 2009 UV_{46}	15.6	X	63.01912	37.77943	48.12244	11.06426	0.0950021	0.19046799	2.9917230	21	1 28.1	19.6
331001 2009 US_{57}	16.6	X	47.54577	173.89037	279.18952	1.59785	0.0693897	0.19029158	2.9935718	21	1 9.4	20.3
331002 2009 UN_{69}	17.3	X	331.91934	169.50465	179.52396	4.70966	0.1683029	0.23940150	2.5687281	21	8 15.4	19.6
331003 2009 UA_{70}	16.6	X	235.56213	337.15566	51.17587	15.40903	0.0637023	0.22415719	2.6839079	21	5 30.9	20.5
331004 2009 US_{73}	16.8	X	160.77165	332.69447	43.32628	2.64436	0.0804849	0.20268504	2.8702623	21	2 26.5	20.9
331005 2009 UU_{81}	15.8	X	45.54576	31.47381	32.74763	7.95885	0.0661008	0.18473616	3.0532904	21	—	—
331006 2009 UA_{83}	15.9	X	305.94740	50.44716	224.19396	14.09362	0.1410906	0.21092893	2.7949794	21	3 19.0	19.9
331007 2009 UU_{86}	15.9	X	341.23537	294.74366	35.31811	13.98863	0.1251678	0.23353798	2.6115462	21	8 17.0	19.0
331008 2009 UO_{88}	15.9	X	261.12798	320.11307	66.24242	9.82116	0.1281853	0.22573823	2.6713614	21	6 21.9	19.7
331009 2009 UG_{91}	16.2	X	31.67412	333.97929	89.74053	6.06428	0.1173252	0.18152193	3.0892281	21	—	—
331010 2009 UM_{91}	16.8	X	265.08828	197.17276	162.97131	5.39140	0.1656780	0.22423824	2.6832611	21	5 19.9	20.7
331011 Peccioli	16.4	X	11.01587	107.53820	195.34402	8.44493	0.1151499	0.23600327	2.5933275	21	8 22.4	19.4
331012 2009 UL_{100}	15.9	X	357.44270	35.14914	80.08295	6.32768	0.1112342	0.18161079	3.0882203	21	—	—
331013 2009 UJ_{104}	16.1	X	322.45350	283.91330	200.76061	14.58300	0.0594641	0.17977094	3.1092553	21	—	—
331014 2009 UN_{120}	16.1	X	320.14980	83.62805	33.81442	10.01010	0.0970957	0.17865193	3.1222254	21	—	—
331015 2009 UW_{132}	16.3	X	103.85020	252.03433	169.63399	6.19374	0.0864502	0.19677338	2.9274658	21	2 16.0	20.2
331016 2009 UW_{134}	16.0	X	316.31727	85.17424	50.77088	3.85185	0.0644855	0.17588922	3.1548344	21	—	—
331017 2009 UF_{136}	16.0	X	164.24861	186.00395	224.19114	14.57929	0.1250442	0.20657751	2.8340925	21	4 12.7	20.5
331018 2009 UO_{136}	16.2	X	177.22188	322.06540	80.66457	5.83481	0.0965491	0.21069577	2.7970411	21	4 19.0	20.5
331019 2009 UT_{136}	16.2	X	140.15983	190.56169	207.62543	10.29144	0.1521905	0.19982210	2.8976129	21	3 7.0	20.7
331020 2009 UP_{139}	14.8	X	0.12488	336.87816	96.69958	29.17637	0.1577924	0.17302238	3.1895876	21	—	—
331021 2009 UY_{143}	17.1	X	222.41162	273.18910	102.88463	1.84998	0.0867712	0.21446367	2.7641836	21	5 1.3	21.2
331022 2009 UV_{146}	16.3	X	290.42845	314.97950	229.97094	3.15869	0.1114005	0.18043062	3.1016722	21	—	—
331023 2009 UG_{150}	17.0	X	134.67477	166.34508	151.62245	5.19734	0.1759176	0.27537847	2.3398215	21	—	—
331024 2009 UP_{151}	17.0	X	321.37268	270.25793	97.56650	4.60779	0.1873102	0.23863487	2.5742266	21	8 23.3	19.5
331025 2009 VG_{4}	16.5	X	254.51754	51.18759	269.12364	4.32725	0.1276184	0.21131344	2.7915878	21	3 20.8	20.8
331026 2009 VM_{7}	16.0	X	72.42720	187.14921	237.29244	6.09161	0.1535017	0.18883791	3.0089150	21	1 17.3	19.6
331027 2009 VH_{8}	15.4	X	339.97727	243.96508	233.48211	8.05266	0.0259758	0.17782986	3.1318401	21	—	—
331028 2009 VJ_{8}	16.9	X	328.55266	17.08783	233.41490	7.98114	0.1074863	0.21206593	2.7849803	21	3 25.4	20.6
331029 2009 VC_{28}	16.0	X	149.81443	137.26874	228.83615	9.57476	0.0617445	0.19505242	2.9446599	21	1 28.4	20.4
331030 2009 VD_{28}	15.7	X	138.71776	309.39493	53.95442	11.35500	0.1254825	0.19292957	2.9662211	21	1 26.7	20.3
331031 2009 VN_{37}	15.4	X	282.37875	318.47013	250.02076	7.94206	0.0877385	0.18524823	3.0476611	21	—	—
331032 2009 VM_{40}	16.6	X	357.43134	1.70495	339.41047	3.06819	0.2322908	0.24063107	2.5599702	21	10 5.6	18.5
331033 2009 VR_{41}	15.7	X	348.69553	245.32000	225.80001	16.34402	0.1747945	0.17623967	3.1506508	21	—	—
331034 2009 VV_{47}	16.5	X	145.73693	207.11053	175.68732	3.72205	0.0795721	0.19682665	2.9269375	21	2 17.2	20.7
331035 2009 VF_{48}	16.4	X	5.28969	231.70732	186.06691	4.60251	0.1382395	0.17110647	3.2133530	21	—	—
331036 2009 VX_{49}	16.6	X	244.92873	272.42620	64.15825	7.06062	0.1328008	0.21288472	2.7778346	21	4 4.8	21.0
331037 2009 VM_{50}	15.4	X	94.51302	202.56804	232.11779	10.24049	0.1063259	0.19300821	2.9654154	21	2 20.1	19.6
331038 2009 VN_{50}	16.4	X	352.49674	249.81945	98.75002	5.73245	0.2277070	0.23968997	2.5666667	21	10 9.6	18.4
331039 2009 VG_{53}	17.0	X	338.03741	357.61808	244.63194	3.02330	0.0526156	0.21158194	2.7892257	21	4 6.1	20.5
331040 2009 VC_{56}	16.7	X	286.82161	265.95798	46.50363	5.67099	0.1583207	0.22018242	2.7161117	21	4 14.6	20.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
331041 2009 VE_{60}	16.2	X	237.23594	305.54079	95.41103	10.81207	0.2750171	0.22223642	2.6993501	21	6 3.3	20.9
331042 2009 VG_{61}	15.7	X	306.28183	135.42657	48.91272	9.44283	0.0688050	0.18493113	3.0511440	21	—	—
331043 2009 VX_{61}	16.0	X	249.55945	157.09316	62.45776	12.17711	0.0469649	0.18029610	3.1032147	21	—	—
331044 2009 VQ_{72}	16.3	X	256.33645	306.19857	76.31949	12.31620	0.1689878	0.22613323	2.6682496	21	6 6.5	20.1
331045 2009 VZ_{73}	16.7	X	16.81834	259.24955	38.00942	4.11035	0.0972113	0.23594060	2.5937867	21	8 27.8	19.6
331046 2009 VE_{77}	15.6	X	57.32802	286.96840	130.79582	9.21791	0.1294548	0.18316360	3.0707416	21	—	—
331047 2009 VQ_{86}	16.0	X	109.04969	183.79790	231.94545	9.67729	0.1019486	0.19332909	2.9621332	21	2 14.8	20.4
331048 2009 VD_{93}	15.5	X	353.51626	47.04712	65.27109	17.43198	0.0939773	0.18055051	3.1002990	21	—	—
331049 2009 VV_{100}	15.9	X	328.58354	75.15811	72.20369	11.68155	0.0375907	0.18009448	3.1055303	21	—	—
331050 2009 VH_{107}	13.4	X	1.67350	356.92795	46.76128	8.11439	0.0907292	0.08470751	5.1347753	21	11 21.8	19.9
331051 2009 VQ_{108}	16.1	X	304.19787	233.94273	85.35606	6.29942	0.0172236	0.22062707	2.7124611	21	6 6.4	19.5
331052 2009 VF_{110}	15.5	X	35.05649	304.26919	92.23573	8.33117	0.1407762	0.17342314	3.1846718	21	—	—
331053 2009 VQ_{113}	16.6	X	96.77079	31.91487	52.28641	7.18003	0.0268373	0.19960234	2.8997393	21	3 2.8	20.6
331054 2009 VO_{115}	15.3	X	18.01004	339.66429	95.62514	11.29651	0.0133963	0.17857598	3.1231105	21	—	—
331055 2009 WJ	17.3	X	195.11401	109.11289	248.25658	5.87147	0.1341609	0.28885510	2.2664668	21	2 26.7	20.7
331056 2009 WX	16.1	X	155.01864	288.35208	97.15832	6.78092	0.0863988	0.20026768	2.8933133	21	3 6.5	20.5
331057 2009 WR_{2}	17.1	X	249.60247	262.20369	90.38564	3.28488	0.0994051	0.21857054	2.7294489	21	4 30.5	21.0
331058 2009 WC_{7}	15.9	X	115.75742	315.05077	60.90642	16.17434	0.0416887	0.18950332	3.0018674	21	1 1.8	20.2
331059 2009 WX_{8}	15.5	X	316.97271	277.97412	228.21394	17.20479	0.1710860	0.17795755	3.1303419	21	—	—
331060 2009 WY_{11}	16.3	X	107.81981	28.38144	52.08434	6.88196	0.0431981	0.20330746	2.8644012	21	3 13.6	20.3
331061 2009 WY_{13}	17.4	X	345.98528	176.18149	155.96488	3.70785	0.1183401	0.23488031	2.6015867	21	8 21.5	20.1
331062 2009 WA_{16}	16.4	X	319.19429	251.72017	94.11353	4.40069	0.1211158	0.22998233	2.6383945	21	7 23.1	19.4
331063 2009 WD_{22}	16.7	X	276.47473	264.45857	83.96007	12.43128	0.1683979	0.22286387	2.6942813	21	5 18.7	20.5
331064 2009 WW_{24}	16.2	X	302.00692	271.90104	79.37048	13.77118	0.0785253	0.22601494	2.6691806	21	7 8.4	19.6
331065 2009 WV_{27}	16.8	X	140.83089	336.40672	52.63600	2.67432	0.0768094	0.19672197	2.9279758	21	2 20.9	21.0
331066 2009 WX_{27}	17.0	X	293.98436	298.70323	56.51217	2.36413	0.1874350	0.22819497	2.6521536	21	6 13.9	20.5
331067 2009 WP_{38}	16.0	X	107.00348	291.04300	60.79809	10.03226	0.0726951	0.17914904	3.1164468	21	—	—
331068 2009 WZ_{44}	15.8	X	244.92925	143.42203	62.98680	17.60058	0.1702141	0.17424949	3.1745953	21	—	—
331069 2009 WD_{50}	15.0	X	282.67625	322.98763	289.99679	15.82366	0.0874262	0.17788567	3.1311851	21	2 5.1	19.6
331070 2009 WK_{51}	15.7	X	127.79634	283.10585	69.81436	11.61653	0.1289673	0.18396474	3.0618200	21	1 1.7	20.2
331071 2009 WO_{52}	16.4	X	145.89112	275.61175	126.14237	7.81912	0.1388865	0.20204389	2.8763313	21	3 21.2	20.8
331072 2009 WY_{58}	17.1	X	314.13364	175.37171	146.10029	2.21520	0.0886397	0.22402508	2.6849629	21	6 13.6	20.5
331073 2009 WU_{64}	16.1	X	18.70880	250.48691	203.69200	8.22070	0.0726605	0.18064327	3.0992375	21	—	—
331074 2009 WF_{66}	16.8	X	8.76662	12.67794	176.66760	1.96041	0.0078188	0.20399384	2.8579723	21	3 15.9	20.8
331075 2009 WV_{70}	16.5	X	80.65170	197.63942	204.51498	3.19737	0.1469513	0.18569436	3.0427778	21	1 2.8	20.3
331076 2009 WE_{72}	16.2	X	198.71569	70.30424	222.61422	9.40418	0.0794371	0.18831806	3.0144499	21	—	—
331077 2009 WA_{73}	16.0	X	106.11368	172.20559	221.63849	9.20612	0.0843538	0.18935166	3.0034700	21	1 15.6	20.3
331078 2009 WD_{93}	15.7	X	294.64543	143.88684	68.09754	10.79125	0.0486584	0.19041029	2.9923274	21	1 8.1	20.0
331079 2009 WO_{94}	16.3	X	50.86547	323.47744	103.57279	5.71211	0.1783297	0.18596002	3.0398792	21	—	—
331080 2009 WH_{99}	16.5	X	121.59913	35.53139	15.07814	3.08786	0.1106404	0.19811824	2.9142026	21	2 28.9	20.6
331081 2009 WW_{100}	16.7	X	250.11872	240.04511	85.41580	4.87217	0.0972051	0.20922226	2.8101583	21	3 30.3	20.9
331082 2009 WZ_{103}	16.1	X	304.01537	282.03576	222.78007	9.61973	0.0249800	0.17574701	3.1565361	21	—	—
331083 2009 WM_{107}	16.0	X	87.72581	328.67991	60.52038	11.45949	0.0906429	0.18650907	3.0339103	21	—	—
331084 2009 WS_{112}	17.2	X	168.70901	87.47355	227.90803	4.26207	0.1849294	0.27401772	2.3475614	21	—	—
331085 2009 WC_{138}	16.9	X	266.14733	118.29790	213.86204	5.00955	0.0743557	0.21443368	2.7644413	21	4 25.8	20.9
331086 2009 WH_{141}	16.2	X	141.94138	278.33330	108.27646	6.88055	0.0721807	0.19735230	2.9217379	21	2 19.1	20.4
331087 2009 WJ_{150}	16.9	X	252.71078	168.37737	165.52791	4.81324	0.0716544	0.21175919	2.7876690	21	4 13.9	20.9
331088 2009 WD_{167}	15.6	X	81.45138	311.86814	89.43967	11.26255	0.0244761	0.17953269	3.1120055	21	—	—
331089 2009 WR_{167}	16.2	X	218.62037	201.38925	68.51130	10.83921	0.0740173	0.18658906	3.0330433	21	—	—
331090 2009 WO_{171}	16.5	X	343.66623	322.77707	13.36384	4.96777	0.1941049	0.23630490	2.5911203	21	8 23.9	18.7
331091 2009 WT_{179}	16.2	X	163.25324	324.99359	27.52027	5.69893	0.0696371	0.19236753	2.9719959	21	2 2.5	20.7
331092 2009 WN_{181}	15.9	X	260.64520	170.22738	76.10198	11.49240	0.0348391	0.19029027	2.9935854	21	1 11.8	20.3
331093 2009 WA_{182}	15.5	X	41.58679	9.23616	62.06063	20.15156	0.1334391	0.17951132	3.1122524	21	—	—
331094 2009 WW_{185}	16.7	X	346.38919	39.28376	234.38617	5.54576	0.0136801	0.21911960	2.7248874	21	6 3.4	20.3
331095 2009 WK_{188}	16.1	X	188.19054	217.19966	36.04511	5.12272	0.0430132	0.17625401	3.1504799	21	—	—
331096 2009 WY_{192}	16.0	X	145.46518	273.74880	49.20504	11.55142	0.0879496	0.18462699	3.0544938	21	—	—
331097 2009 WS_{193}	15.9	X	289.59638	160.38641	53.54638	9.98291	0.0516306	0.18995799	2.9970755	21	1 4.2	20.3
331098 2009 WV_{193}	16.4	X	145.74504	329.93935	48.91736	4.03263	0.1148590	0.19685261	2.9266802	21	2 18.7	20.7
331099 2009 WS_{198}	15.8	X	127.70881	255.99698	102.39434	11.53573	0.1256159	0.18676123	3.0311789	21	1 7.2	20.0
331100 2009 WW_{220}	17.3	X	158.91334	221.51293	212.00454	4.39244	0.0618459	0.21136900	2.7910986	21	5 3.8	21.4
331101 2009 WM_{234}	16.0	X	350.33464	272.47217	212.16505	12.07778	0.1032750	0.18462209	3.0545479	21	—	—
331102 2009 WF_{235}	15.7	X	47.53521	46.04752	54.77379	10.19290	0.0127477	0.19056776	2.9906788	21	1 18.5	19.9
331103 2009 WT_{255}	15.6	X	279.80896	77.21209	80.81392	11.33620	0.0469769	0.16985909	3.2290655	21	—	—
331104 2009 XC_{1}	15.7	X	107.43679	350.55700	77.14710	15.81021	0.1694463	0.19317763	2.9636812	21	3 22.1	20.2
331105 Giselher	17.4	X	114.38504	131.17796	263.24866	2.86637	0.1288168	0.27472281	2.3435429	21	1 16.5	19.9
331106 2010 AN_{66}	15.7	X	253.42508	156.11843	147.99576	9.07512	0.0984532	0.18404650	3.0609132	21	3 9.4	20.2
331107 2010 BS_{118}	13.1	X	8.75127	301.22835	92.03209	24.33920	0.0570596	0.08347792	5.1850739	21	11 24.1	19.9
331108 2010 DJ_{51}	15.7	X	19.32922	254.87163	170.71297	17.30464	0.1545851	0.17408947	3.1765404	21	—	—
331109 2010 NR_{69}	16.6	X	41.27705	310.26774	4.96083	11.57354	0.2345604	0.27472344	2.3435393	21	11 21.4	19.8
331110 2010 OK_{89}	17.0	X	237.12411	22.06236	347.45926	8.42312	0.1764528	0.24035034	2.5619632	21	4 26.5	21.1
331111 2010 RT_{52}	17.7	X	280.85703	251.51286	183.99386	22.93903	0.1308406	0.35814721	1.9637898	21	10 17.4	19.1
331112 2010 RY_{62}	18.0	X	55.44428	201.79706	169.06215	3.33255	0.1206132	0.29216137	2.2493353	21	—	—
331113 2010 RQ_{124}	16.4	X	215.53485	232.57259	41.53857	3.95107	0.0571718	0.21486105	2.7607744	21	—	—
331114 2010 RD_{156}	17.1	X	3.67574	264.73368	47.76722	7.32263	0.1101020	0.26240650	2.4163119	21	9 1.9	19.6
331115 2010 ST_{31}	17.5	X	40.27534	241.31319	102.55659	2.97059	0.1150521	0.28052160	2.3111343	21	12 15.3	20.2
331116 2010 TE_{116}	16.7	X	259.91283	133.72674	24.79104	24.54775	0.1461196	0.27820146	2.3239660	21	12 19.6	19.9
331117 2010 TY_{180}	17.7	X	336.85890	240.44280	220.64858	6.83423	0.0898992	0.28608647	2.2810659	21	—	—
331118 2010 UE_{53}	17.5	X	352.74753	104.28380	230.05770	18.75970	0.0961133	0.35259653	1.9843458	21	9 13.3	19.5
331119 2010 UJ_{62}	17.6	X	302.62354	249.99365	262.93367	6.28304	0.1395652	0.28710059	2.2756912	21	—	—
331120 2010 UJ_{75}	17.2	X	341.60135	263.23561	202.85719	5.11947	0.1791643	0.28212721	2.3023573	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
331121 2010 UB_{76}	16.8	X	257.64474	351.29417	319.14536	4.53787	0.0469164	0.22424766	2.6831860	21	3 19.0	20.5
331122 2010 UJ_{82}	17.4	X	108.32494	143.54754	178.57471	3.02894	0.1106471	0.28798154	2.2710478	21	—	—
331123 2010 UJ_{106}	16.4	X	178.92312	257.58832	75.88370	9.53608	0.1786533	0.21640725	2.7476085	21	1 30.2	20.9
331124 2010 VD_{13}	16.4	X	180.22256	32.56041	53.54913	12.32001	0.1511506	0.23702684	2.5858562	21	6 12.4	20.6
331125 2010 VX_{30}	17.0	X	146.02430	54.77619	10.67267	13.17980	0.2609490	0.22568743	2.6717622	21	4 21.2	21.6
331126 2010 VV_{36}	16.8	X	124.43132	35.88828	57.65690	8.46707	0.2580240	0.22462215	2.6802029	21	5 10.4	21.0
331127 2010 VG_{46}	17.0	X	11.13311	152.33353	344.36958	2.08102	0.1190972	0.21070221	2.7969840	21	1 2.6	20.3
331128 2010 VV_{47}	17.7	X	255.28220	158.76785	357.31538	1.97034	0.0915317	0.27159245	2.3615162	21	12 19.2	20.4
331129 2010 VB_{48}	17.3	X	196.39687	27.61775	50.05025	5.72180	0.2479032	0.23801261	2.5787114	21	6 16.0	21.7
331130 2010 VF_{55}	16.1	X	62.00454	113.88967	58.38237	13.70982	0.2000040	0.22676447	2.6632956	21	5 27.4	19.0
331131 2010 VB_{69}	16.2	X	4.13882	241.56029	136.43904	5.03277	0.1254435	0.17788272	3.1312197	21	11 17.9	20.0
331132 2010 VJ_{82}	17.3	X	320.74294	313.64472	115.10914	2.39069	0.1605726	0.27088856	2.3656053	21	12 3.9	19.0
331133 2010 VR_{85}	17.4	X	285.65377	349.64712	243.53624	5.08274	0.1177731	0.30169368	2.2017022	21	—	—
331134 2010 VQ_{91}	17.5	X	46.71332	116.33955	260.42232	3.58761	0.0907274	0.27954957	2.3164886	21	—	—
331135 2010 VA_{104}	17.1	X	3.95704	272.95263	194.19341	1.44070	0.0360783	0.19691679	2.9260442	21	—	—
331136 2010 VA_{113}	17.6	X	112.19549	349.37706	75.97635	5.74080	0.0568865	0.30874361	2.1680572	21	2 9.1	19.9
331137 2010 VR_{119}	17.5	X	326.85609	19.87792	84.47078	3.76840	0.0790938	0.27953917	2.3165460	21	—	—
331138 2010 VD_{133}	16.4	X	158.12581	33.38106	56.87761	14.52467	0.2218872	0.23176457	2.6248512	21	5 31.0	20.8
331139 2010 VE_{160}	17.0	X	119.81383	247.90812	97.01655	23.79619	0.1471155	0.38534608	1.8702604	21	—	—
331140 2010 VL_{165}	17.4	X	298.75372	254.12071	263.96579	4.81732	0.0326853	0.28518606	2.2858647	21	—	—
331141 2010 VS_{165}	17.3	X	350.56180	277.75556	239.60934	6.92999	0.1176130	0.29917959	2.2140193	21	—	—
331142 2010 VH_{174}	15.9	X	203.46845	259.93112	111.06607	14.58000	0.1463198	0.22809795	2.6529056	21	4 9.6	20.4
331143 2010 VR_{187}	18.6	X	98.16936	311.35143	105.16114	4.63984	0.1178798	0.30438678	2.1886964	21	1 13.1	20.6
331144 2010 VR_{193}	16.8	X	251.93903	212.64530	147.48061	4.35062	0.2641952	0.24199366	2.5503516	21	4 26.5	21.0
331145 2010 VJ_{201}	17.3	X	26.43555	268.13720	68.07244	23.21262	0.0729371	0.35909515	1.9603323	21	11 25.8	19.0
331146 2010 WJ_{36}	17.5	X	270.08361	291.56053	226.27458	4.21894	0.1340234	0.27558632	2.3386449	21	—	—
331147 2010 WS_{45}	16.6	X	237.71100	121.07411	71.34621	2.52965	0.0890205	0.18339618	3.0681449	21	12 23.4	20.8
331148 2010 WT_{55}	16.4	X	91.94403	109.74042	102.32460	14.70431	0.1087047	0.23589118	2.5941490	21	8 23.6	20.2
331149 2010 WS_{57}	16.4	X	94.13162	4.82729	354.04817	5.23111	0.0815426	0.19579554	2.9372045	21	—	—
331150 2010 WJ_{59}	17.0	X	136.40652	92.21145	31.61959	2.35312	0.0739070	0.23217964	2.6217219	21	6 11.7	20.7
331151 2010 WO_{68}	17.3	X	319.92286	208.89761	269.61399	6.08082	0.0423545	0.27999452	2.3140338	21	—	—
331152 2010 XC_{18}	16.8	X	132.94896	336.59308	127.86244	5.78516	0.1330436	0.22229565	2.6988707	21	5 21.5	20.9
331153 2010 XU_{21}	17.2	X	191.12740	5.32775	78.62710	8.58541	0.1675918	0.23685907	2.5870771	21	6 20.9	21.4
331154 2010 XL_{25}	16.4	X	75.35374	314.12232	222.71074	12.61181	0.2010411	0.22423205	2.6833105	21	6 23.4	20.1
331155 2010 XL_{32}	15.9	X	15.31506	346.64384	50.08738	14.76773	0.1639174	0.18433919	3.0576723	21	—	—
331156 2010 XL_{40}	16.8	X	187.88019	334.38817	122.88753	4.95969	0.2144975	0.23892999	2.5721065	21	7 4.4	21.3
331157 2010 XA_{42}	16.0	X	285.23144	74.38492	94.08075	9.83999	0.1162899	0.18122266	3.0926283	21	—	—
331158 2010 XT_{42}	16.8	X	219.15186	335.66746	106.51232	9.21594	0.1724696	0.23814218	2.5777759	21	7 15.2	20.7
331159 2010 XL_{43}	17.2	X	313.74390	310.47303	128.59384	5.93747	0.0880830	0.26826613	2.3809968	21	12 6.2	19.7
331160 2010 XL_{50}	18.1	X	318.54309	16.75506	51.65427	1.49605	0.1744746	0.26848098	2.3797264	21	11 27.1	19.8
331161 2010 XG_{52}	16.8	X	163.84398	235.00454	218.76778	10.13173	0.0976059	0.23259575	2.6185942	21	6 5.7	20.7
331162 2010 XB_{58}	16.3	X	133.32072	104.13510	68.10940	6.16904	0.1424752	0.24104575	2.5570334	21	8 20.2	20.3
331163 2010 XR_{58}	16.9	X	207.08054	257.59320	192.73373	10.34646	0.2344016	0.24130197	2.5552230	21	7 9.5	21.4
331164 2010 XJ_{66}	17.6	X	119.19222	297.02354	108.25832	5.61019	0.0906639	0.29967667	2.2115704	21	1 27.6	19.8
331165 2010 YQ_{3}	15.6	X	339.15353	359.59946	106.53491	18.62237	0.1713416	0.18049938	3.1008844	21	—	—
331166 2010 YX_{4}	15.7	X	355.48009	300.42105	103.53757	12.87432	0.0919326	0.17800295	3.1298096	21	12 4.9	19.7
331167 2011 AA_{3}	15.3	X	275.57105	16.86406	143.36475	28.40466	0.1292349	0.17352263	3.1834544	21	12 27.7	20.0
331168 2011 AO_{13}	15.7	X	314.84049	58.13037	67.74446	13.03156	0.1769083	0.18000792	3.1065258	21	—	—
331169 2011 AS_{13}	17.1	X	10.34767	296.85874	69.29505	6.01469	0.1227499	0.26035010	2.4290188	21	11 28.8	19.7
331170 2011 AK_{16}	15.8	X	298.10494	37.62503	105.05680	6.61995	0.1427403	0.17650123	3.1475373	21	—	—
331171 2011 AP_{18}	15.7	X	230.86718	163.95135	85.04090	6.89582	0.2278741	0.18150389	3.0894329	21	—	—
331172 2011 AS_{19}	16.9	X	105.98807	328.56485	108.64696	3.27557	0.0782033	0.20711885	2.8291521	21	3 9.7	20.7
331173 2011 AZ_{19}	15.8	X	281.16414	85.70038	72.17564	10.52376	0.1990658	0.17524121	3.1626069	21	12 19.9	19.8
331174 2011 AE_{25}	17.2	X	134.66806	303.98121	132.44670	4.19247	0.1780803	0.21711377	2.7416444	21	4 22.8	21.4
331175 2011 AL_{26}	17.0	X	285.31980	344.70873	80.33807	7.52352	0.1188505	0.25093909	2.4893760	21	9 25.6	20.0
331176 2011 AU_{28}	16.8	X	197.71713	296.82484	132.54449	6.16431	0.1596153	0.22968648	2.6406597	21	6 9.6	21.1
331177 2011 AR_{31}	17.1	X	67.27333	253.97580	84.20236	5.06246	0.0843720	0.26601930	2.3943848	21	—	—
331178 2011 AL_{33}	16.1	X	33.32626	142.04573	102.77288	14.88106	0.0994795	0.22793158	2.6541964	21	7 8.2	19.0
331179 2011 AC_{35}	17.4	X	104.60363	331.98199	48.61931	5.54054	0.2203896	0.29189929	2.2506814	21	—	—
331180 2011 AG_{35}	16.5	X	112.27776	68.12675	94.95128	13.80335	0.1092857	0.22754183	2.6572263	21	7 9.6	20.2
331181 2011 AG_{40}	16.1	X	249.67129	37.44516	156.56071	9.98571	0.0531703	0.17714239	3.1399379	21	—	—
331182 2011 AC_{45}	16.6	X	307.91949	359.83865	307.48117	4.14465	0.0391836	0.22155313	2.7048973	21	5 21.8	20.2
331183 2011 AT_{45}	16.3	X	328.13509	16.74250	137.66020	2.67749	0.1075346	0.18481819	3.0523869	21	—	—
331184 2011 AS_{46}	16.3	X	207.50897	228.74608	145.68242	10.38027	0.1016578	0.21448589	2.7639928	21	4 15.9	20.7
331185 2011 AE_{48}	16.3	X	162.60859	34.62029	57.16389	7.10019	0.0654304	0.22515748	2.6759529	21	5 30.6	20.1
331186 2011 AC_{53}	16.2	X	358.99245	227.21517	92.53706	6.49835	0.1346716	0.23669025	2.5883071	21	9 1.4	18.9
331187 2011 AU_{56}	16.5	X	199.91767	320.89394	129.64064	34.19709	0.2509183	0.23422686	2.6064231	21	7 7.9	21.3
331188 2011 AY_{58}	17.0	X	117.44814	80.16425	121.74994	2.08675	0.0132421	0.24001606	2.5643414	21	8 26.9	20.2
331189 2011 AZ_{58}	16.1	X	230.66266	113.00983	120.94597	6.28244	0.1036091	0.18132826	3.0914274	21	—	—
331190 2011 AC_{60}	16.5	X	315.26619	326.61376	124.84542	7.82918	0.0805954	0.26489173	2.4011748	21	12 24.7	19.0
331191 2011 AZ_{60}	16.1	X	29.89849	352.73838	108.38655	9.09008	0.0902149	0.19255299	2.9700872	21	—	—
331192 2011 AD_{61}	16.7	X	298.87575	73.35312	103.43241	6.58294	0.1659001	0.18349891	3.0669996	21	—	—
331193 2011 AO_{61}	16.8	X	238.27225	248.52499	113.36909	6.88285	0.0575150	0.22219116	2.6997168	21	5 4.9	20.8
331194 2011 AP_{62}	15.7	X	79.13544	231.65908	86.70548	12.07727	0.1047947	0.16939723	3.2349322	21	12 7.7	20.5
331195 2011 AJ_{68}	16.2	X	123.79463	251.64046	139.42231	12.88925	0.0622273	0.19525897	2.9425830	21	1 31.4	20.3
331196 2011 AX_{70}	17.4	X	64.59217	304.01045	104.26787	6.23352	0.1173986	0.28498407	2.2869447	21	—	—
331197 2011 AP_{72}	16.7	X	141.45504	359.43179	138.94826	14.58388	0.1062198	0.23003724	2.6379746	21	7 9.8	20.8
331198 2011 BY_{4}	16.1	X	3.10388	329.30206	283.90598	7.81292	0.1425792	0.22092037	2.7100598	21	5 26.3	18.9
331199 2011 BO_{6}	17.2	X	10.53881	195.14180	36.73081	1.70057	0.0419303	0.21974919	2.7196803	21	5 10.8	20.6
331200 2011 BN_{16}	16.5	X	338.41678	184.78014	111.54271	4.76205	0.0662083	0.22591905	2.6699358	21	6 19.1	19.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
331201 2011 BX_{19}	16.1	X	21.97719	320.11504	103.81403	4.29046	0.1714424	0.17859421	3.1228979	21	—	—
331202 2011 BZ_{20}	17.1	X	95.22254	43.87653	124.05356	4.30676	0.0346926	0.22559865	2.6724631	21	6 13.6	20.7
331203 2011 BG_{22}	15.9	X	48.56548	272.70213	268.19919	6.26423	0.0671879	0.21331161	2.7741273	21	4 28.7	19.4
331204 2011 BT_{28}	15.5	X	77.55909	269.52989	104.08524	10.41868	0.0337513	0.18104848	3.0946114	21	—	—
331205 2011 BR_{31}	16.6	X	39.50699	170.16533	106.36061	6.21981	0.1723493	0.23451859	2.6042612	21	9 17.1	19.6
331206 2011 BU_{33}	16.8	X	33.88768	75.41237	127.71080	4.37610	0.0320187	0.21507581	2.7589363	21	5 7.8	20.3
331207 2011 BM_{34}	16.4	X	25.97843	182.93349	153.48939	8.10020	0.1612329	0.24486418	2.5303808	21	11 17.3	19.4
331208 2011 BW_{34}	16.4	X	253.22998	239.75289	132.31898	6.85709	0.0312637	0.22434678	2.6823956	21	6 7.5	20.1
331209 2011 BC_{35}	16.0	X	21.57027	291.36934	137.55682	6.21348	0.1275492	0.18132065	3.0915139	21	—	—
331210 2011 BQ_{36}	16.3	X	7.56572	324.18676	141.29060	9.98272	0.1110593	0.18491663	3.0513034	21	—	—
331211 2011 BX_{36}	15.8	X	262.68058	51.30784	137.56691	18.94804	0.1346859	0.17479153	3.1680289	21	—	—
331212 2011 BK_{37}	15.9	X	266.60445	47.40308	142.07850	11.19687	0.1677944	0.17530712	3.1618142	21	—	—
331213 2011 BY_{37}	15.2	X	146.93894	145.40966	162.73765	16.03139	0.0294510	0.17065229	3.2190519	21	—	—
331214 2011 BC_{39}	15.7	X	73.28388	235.88161	169.01816	11.04693	0.0348946	0.17895227	3.1187309	21	—	—
331215 2011 BA_{40}	15.7	X	322.40579	76.42300	73.16287	11.81017	0.0294627	0.18226271	3.0808520	21	—	—
331216 2011 BU_{45}	15.4	X	313.82128	13.09255	123.06769	14.78631	0.0910328	0.17574590	3.1565493	21	—	—
331217 2011 BK_{47}	17.2	X	349.93866	127.49996	203.23216	4.83241	0.1438226	0.23817062	2.5775707	21	8 25.8	19.7
331218 2011 BM_{48}	16.3	X	7.13580	312.31498	189.09277	5.03182	0.0953311	0.19145923	2.9813880	21	1 8.8	20.0
331219 2011 BP_{50}	17.8	X	272.49774	19.63079	253.05801	3.44101	0.1502906	0.29256586	2.2472615	21	1 27.0	21.0
331220 2011 BN_{60}	15.7	X	329.02419	67.25737	68.87204	6.30402	0.0984078	0.18102355	3.0948956	21	—	—
331221 2011 BT_{61}	16.8	X	136.07302	193.78006	98.71034	8.31245	0.1670387	0.26748879	2.3856075	21	—	—
331222 2011 BW_{63}	16.3	X	275.25609	218.67500	135.81226	17.46946	0.0371846	0.22175174	2.7032820	21	6 14.0	20.3
331223 2011 BH_{68}	16.3	X	266.92057	104.95466	73.60064	3.43707	0.0878059	0.17688055	3.1430359	21	—	—
331224 2011 BJ_{68}	16.8	X	263.52649	204.38999	72.11484	3.33858	0.0167687	0.20335398	2.8639643	21	2 21.2	20.8
331225 2011 BD_{74}	16.9	X	194.62177	166.37308	231.01987	3.06073	0.1027237	0.21354345	2.7721191	21	4 27.5	21.0
331226 2011 BJ_{74}	16.6	X	238.46971	170.70111	198.02969	6.49733	0.0895819	0.21598834	2.7511600	21	5 9.6	20.6
331227 2011 BQ_{78}	16.8	X	135.32112	211.42460	110.99773	8.12726	0.1327971	0.27684823	2.3315329	21	—	—
331228 2011 BS_{78}	16.9	X	104.33152	269.31386	211.25295	2.36138	0.1388505	0.21418290	2.7665988	21	5 9.2	20.6
331229 2011 BX_{79}	16.6	X	196.63825	265.59140	130.58515	4.72666	0.0866537	0.21952994	2.7214908	21	4 29.9	20.7
331230 2011 BR_{81}	16.4	X	48.83282	121.38721	155.93432	11.58261	0.0590434	0.23845547	2.5755176	21	9 12.9	19.7
331231 2011 BO_{82}	16.5	X	63.63615	59.90518	83.59315	6.12714	0.1051487	0.21034919	2.8001125	21	4 11.1	20.0
331232 2011 BT_{83}	16.4	X	323.81112	121.58703	173.50194	11.54171	0.0535456	0.21911159	2.7249538	21	5 29.3	20.1
331233 2011 BM_{85}	15.4	X	287.59624	357.41646	153.79285	13.89921	0.1727216	0.17370494	3.1812266	21	12 25.6	19.5
331234 2011 BO_{85}	15.7	X	355.79129	356.01246	107.09645	10.42330	0.1036520	0.18163550	3.0879403	21	—	—
331235 2011 BE_{88}	16.5	X	156.60942	307.31459	61.70301	2.94547	0.0773872	0.20119849	2.8843829	21	2 13.5	20.8
331236 2011 BK_{90}	16.6	X	14.28718	150.54330	114.96493	12.41944	0.1497692	0.22828610	2.6514477	21	7 8.1	19.2
331237 2011 BR_{95}	16.7	X	30.71141	146.72850	71.86407	4.62887	0.1367827	0.21794499	2.7346691	21	5 30.3	19.6
331238 2011 BH_{98}	16.7	X	321.08276	197.72173	75.96678	5.56386	0.0449785	0.21623430	2.7490733	21	4 27.3	20.2
331239 2011 BK_{98}	16.5	X	7.38889	192.98248	71.33766	4.93744	0.0981497	0.22479263	2.6788476	21	6 20.8	19.5
331240 2011 BU_{102}	17.0	X	286.85953	295.03305	124.43717	4.70645	0.1326291	0.24696174	2.5160326	21	9 14.6	19.8
331241 2011 BD_{103}	16.5	X	220.55457	19.87691	8.81968	6.19923	0.0341795	0.22027082	2.7153849	21	5 16.0	20.3
331242 2011 BN_{116}	16.9	X	93.12759	185.93568	125.02230	8.90375	0.1111668	0.26255282	2.4154141	21	12 30.1	20.5
331243 2011 BA_{119}	17.1	X	52.40782	253.74173	109.39327	6.88205	0.1621492	0.26799448	2.3826056	21	—	—
331244 2011 BM_{121}	16.7	X	356.09501	169.36923	142.22664	4.46565	0.0922610	0.23326751	2.6135644	21	8 9.4	19.5
331245 2011 BV_{122}	16.6	X	279.66490	261.00992	120.79377	5.20235	0.0782599	0.23436735	2.6053814	21	7 18.3	19.8
331246 2011 BF_{132}	16.6	X	250.02225	166.24103	162.09263	4.96577	0.2207107	0.21031676	2.8004004	21	3 21.9	21.2
331247 2011 BN_{149}	16.9	X	315.09135	232.85853	42.43036	4.91516	0.0582632	0.21483774	2.7609741	21	4 18.2	20.4
331248 2011 CW	16.5	X	297.68093	273.91660	120.59494	13.70779	0.2201716	0.24462588	2.5320238	21	8 11.5	19.3
331249 2011 CX_{1}	15.6	X	20.91179	154.77916	301.51058	8.80723	0.0256948	0.18226902	3.0807809	21	—	—
331250 2011 CA_{2}	15.8	X	337.87965	304.16195	151.30430	5.71589	0.2617734	0.17649824	3.1475729	21	—	—
331251 2011 CB_{2}	15.0	X	273.64130	63.08552	132.44050	14.81263	0.1107647	0.17777398	3.1324965	21	—	—
331252 2011 CE_{2}	16.2	X	175.73645	341.86988	116.02233	9.17170	0.0162466	0.22482315	2.6786052	21	6 22.9	19.9
331253 2011 CH_{4}	15.3	X	6.35693	343.07285	116.53526	12.39865	0.0935786	0.18166716	3.0875816	21	—	—
331254 2011 CF_{17}	15.9	X	14.02532	295.08480	128.90071	9.36687	0.0638740	0.17494361	3.1661926	21	—	—
331255 2011 CX_{21}	16.9	X	246.39835	319.56296	83.30879	4.75828	0.0727922	0.23357861	2.6112433	21	7 3.7	20.6
331256 2011 CN_{27}	16.6	X	160.10323	327.70379	102.88987	5.70297	0.0538301	0.21419222	2.7665186	21	5 2.6	20.6
331257 2011 CR_{35}	16.7	X	21.20479	317.65528	334.77611	3.68622	0.1030112	0.23497111	2.6009165	21	8 26.7	19.5
331258 2011 CL_{39}	16.1	X	147.53215	308.31537	123.72376	16.77663	0.2529663	0.21466522	2.7624532	21	5 9.8	21.1
331259 2011 CB_{40}	16.2	X	317.89235	35.95453	120.48963	16.83386	0.1126370	0.18208884	3.0828128	21	—	—
331260 2011 CL_{42}	16.4	X	207.00027	178.16483	209.83828	5.76536	0.0554060	0.21462439	2.7628035	21	4 30.3	20.3
331261 2011 CA_{43}	15.9	X	310.25200	0.91664	149.48328	10.16005	0.0384366	0.17971735	3.1098734	21	—	—
331262 2011 CC_{45}	15.4	X	229.66696	62.80487	163.89131	12.20177	0.0329445	0.17715826	3.1397504	21	—	—
331263 2011 CK_{47}	17.0	X	290.74576	26.13655	294.40491	3.90207	0.1062128	0.21923611	2.7239219	21	5 5.3	20.8
331264 2011 CK_{57}	16.6	X	30.07081	293.27456	148.25076	3.17415	0.0785042	0.18310598	3.0713858	21	—	—
331265 2011 CS_{60}	17.4	X	188.90195	226.82714	160.26205	2.99248	0.1172069	0.21188565	2.7865597	21	4 10.4	21.7
331266 2011 CH_{61}	16.9	X	47.17843	139.50327	160.10906	4.70943	0.1557111	0.24104991	2.5570039	21	10 26.8	20.1
331267 2011 CD_{70}	15.4	X	279.92015	134.87998	88.80595	12.93275	0.1367209	0.18685384	3.0301772	21	—	—
331268 2011 CN_{70}	16.0	X	37.41062	317.25372	117.82648	12.24685	0.0223994	0.18307816	3.0716969	21	—	—
331269 2011 CZ_{70}	15.4	X	153.07161	228.38360	149.70074	10.19469	0.0652477	0.19205129	2.9752575	21	2 19.6	19.7
331270 2011 CW_{71}	16.8	X	264.43921	264.59220	82.15538	7.20516	0.0722818	0.21876340	2.7278445	21	5 14.1	20.7
331271 2011 CD_{75}	15.9	X	67.60873	279.94552	175.84588	16.76066	0.1638692	0.19776603	2.9176615	21	2 17.5	19.4
331272 2011 CB_{78}	16.2	X	330.46670	280.27236	217.26038	4.22687	0.1080504	0.17989454	3.1078310	21	—	—
331273 2011 CM_{83}	17.2	X	318.19476	156.75724	176.53865	3.49931	0.0827296	0.22733140	2.6588659	21	7 7.0	20.3
331274 2011 CG_{88}	16.3	X	41.94027	282.16315	151.43335	8.76323	0.1704641	0.18514195	3.0488273	21	—	—
331275 2011 CT_{88}	15.6	X	134.70114	310.46239	173.34817	11.70057	0.2240863	0.12521019	3.9570930	21	6 24.2	22.1
331276 2011 CO_{90}	15.9	X	193.33991	326.00989	306.83929	4.48977	0.1112517	0.17507439	3.1646156	21	—	—
331277 2011 CV_{90}	16.1	X	211.39398	86.29828	181.89025	9.90242	0.2006171	0.17630787	3.1498382	21	—	—
331278 2011 CY_{93}	16.8	X	304.49137	145.72043	160.56129	8.20123	0.2106676	0.21472086	2.7619759	21	4 23.2	20.5
331279 2011 DO_{4}	15.7	X	7.67590	75.23347	150.91650	11.64909	0.1840629	0.20489756	2.8495626	21	5 1.6	18.8
331280 2011 DV_{15}	15.2	X	149.74641	305.97170	154.52826	11.77224	0.2130183	0.12460685	3.9698561	21	6 10.2	21.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
331281 2011 DS_{19}	15.6	X	311.21195	335.42180	159.64022	18.05176	0.1798661	0.17589128	3.1548097	21	—	—
331282 2011 DE_{25}	16.9	X	304.82347	166.59509	144.98640	5.51816	0.0384228	0.22207983	2.7006189	21	5 25.8	20.6
331283 2011 DQ_{25}	16.5	X	302.73846	24.92615	146.09355	14.08638	0.1146511	0.17990185	3.1077468	21	—	—
331284 2011 DH_{26}	16.0	X	100.05904	239.51578	145.39670	11.45322	0.0555867	0.18576967	3.0419554	21	—	—
331285 2011 DN_{27}	16.3	X	120.98911	276.98474	145.81718	8.76254	0.0441830	0.20111014	2.8852275	21	3 6.1	20.4
331286 2011 DJ_{29}	16.9	X	254.51819	110.63891	153.17703	9.04627	0.0479662	0.19166593	2.9792442	21	1 22.8	21.3
331287 2011 DC_{30}	16.5	X	230.79160	123.62599	151.28825	11.31462	0.2835398	0.18135969	3.0910703	21	1 5.5	22.2
331288 2011 DJ_{40}	15.9	X	137.58548	172.29382	168.30831	9.48980	0.1002070	0.17556851	3.1586751	21	—	—
331289 2011 DJ_{43}	16.3	X	59.49749	220.75896	187.10632	4.70763	0.1662900	0.18143168	3.0902525	21	—	—
331290 2011 DE_{49}	16.2	X	43.15833	18.32520	175.69469	7.24452	0.0123229	0.21383914	2.7695630	21	5 7.4	19.9
331291 2011 EN_{1}	16.6	X	352.96868	96.40449	164.21045	5.86724	0.0240251	0.21811193	2.7332735	21	5 26.5	20.2
331292 2011 ED_{6}	16.8	X	311.25171	227.82507	94.26267	5.59239	0.1009574	0.22340172	2.6899551	21	6 8.4	20.0
331293 2011 EN_{6}	17.4	X	287.42216	317.65601	277.95446	5.52602	0.1050885	0.28584051	2.2823743	21	1 1.7	20.5
331294 2011 EH_{7}	15.9	X	67.10235	244.67891	156.11105	15.59999	0.0014303	0.18049682	3.1009137	21	—	—
331295 2011 EN_{8}	16.9	X	202.54016	284.00395	110.36370	3.68182	0.1921258	0.22063963	2.7123582	21	5 1.8	21.4
331296 2011 ET_{14}	17.9	X	23.35851	151.51529	348.31621	3.09498	0.1204517	0.28675340	2.2775277	21	1 4.2	20.1
331297 2011 EM_{19}	15.5	X	237.27301	91.91492	142.03848	15.75603	0.0283011	0.17806682	3.1290612	21	—	—
331298 2011 EN_{19}	15.8	X	96.11223	252.46346	137.59535	11.64496	0.1013539	0.18602633	3.0391567	21	1 3.4	20.0
331299 2011 EM_{20}	16.2	X	90.29756	275.06165	122.59727	10.20931	0.0127461	0.18647332	3.0342981	21	—	—
331300 2011 EN_{20}	16.8	X	234.48593	280.25772	103.15150	5.04539	0.1577694	0.22489035	2.6780715	21	5 18.3	20.9
331301 2011 EW_{26}	16.3	X	207.88122	237.57559	147.01121	5.01383	0.1189820	0.20919473	2.8104049	21	4 27.2	20.7
331302 2011 EX_{35}	17.5	X	227.59425	50.22601	223.31564	2.42713	0.1842325	0.27312658	2.3526649	21	—	—
331303 2011 EP_{42}	15.1	X	123.86621	175.22308	166.09597	27.83616	0.1392811	0.17068571	3.2186316	21	—	—
331304 2011 EA_{50}	15.7	X	127.49185	335.89682	59.14901	9.77496	0.0507281	0.19069871	2.9893094	21	2 13.3	20.1
331305 2011 ES_{50}	15.4	X	274.39386	131.23105	90.42670	11.36259	0.0193477	0.18148412	3.0896571	21	1 1.0	19.8
331306 2011 EQ_{58}	15.6	X	80.23293	306.31406	100.05083	10.92188	0.0697396	0.18198194	3.0840201	21	—	—
331307 2011 EN_{59}	15.7	X	68.33069	263.46519	119.13007	11.40087	0.0261095	0.17082507	3.2168809	21	—	—
331308 2011 EM_{64}	15.9	X	353.46838	325.40347	129.60992	6.07132	0.1385821	0.17402978	3.1772667	21	—	—
331309 2011 EB_{76}	15.5	X	353.05150	324.73347	146.05532	13.64444	0.1116390	0.17665292	3.1457352	21	—	—
331310 2011 FB_{1}	17.2	X	298.04999	16.29867	140.37617	6.93860	0.0653157	0.26766803	2.3845424	21	—	—
331311 2011 FP_{37}	15.2	X	252.52004	41.12421	213.90404	16.14373	0.1774707	0.17595198	3.1540841	21	1 2.4	20.6
331312 2011 FK_{86}	17.3	X	277.56322	213.63118	69.16124	6.21600	0.1184538	0.28952537	2.2629674	21	2 22.2	20.4
331313 2011 FJ_{105}	15.9	X	98.15109	244.68539	153.37950	10.47396	0.0783421	0.18373700	3.0643496	21	1 12.5	20.2
331314 2011 FF_{151}	15.5	X	269.03698	65.33101	190.11776	26.53749	0.1287379	0.17849293	3.1240792	21	1 20.1	20.8
331315 2011 GC_{32}	15.7	X	21.60051	302.97846	225.01093	8.55147	0.1317792	0.18910239	3.0061089	21	3 3.6	19.4
331316 2011 GP_{36}	15.5	X	104.64454	187.55499	202.89724	9.34720	0.0066077	0.18477464	3.0528664	21	1 1.3	19.9
331317 2011 GA_{40}	15.3	X	80.47276	304.48771	133.43159	10.23030	0.0306574	0.18872632	3.0101010	21	2 1.1	19.4
331318 2011 QB_{58}	16.2	X	114.06169	0.85954	293.95132	7.00391	0.0319934	0.21843978	2.7305380	21	12 19.3	20.1
331319 2011 SD_{190}	17.3	X	170.12849	211.94925	238.78962	5.41678	0.0405544	0.26542499	2.3979576	21	6 5.1	20.3
331320 2011 UE_{87}	16.6	X	281.89499	293.69544	326.16268	5.33811	0.1081942	0.25278753	2.4772259	21	2 2.1	20.1
331321 2011 UN_{311}	16.8	X	70.42067	307.57401	15.16562	1.89729	0.0674392	0.20382099	2.8595879	21	12 3.5	20.7
331322 2011 WW_{115}	16.4	X	31.48392	206.48092	104.32452	3.40582	0.2087366	0.18919666	3.0051102	21	10 18.9	20.0
331323 2011 WE_{118}	15.9	X	96.41821	78.30393	207.66563	6.96667	0.0423230	0.19719024	2.9233385	21	11 15.8	20.0
331324 2011 YE_{23}	17.0	X	62.86508	132.72956	54.89002	3.97605	0.1722880	0.24261762	2.5459771	21	6 15.3	19.7
331325 2011 YK_{30}	15.7	X	123.38357	335.90802	307.66697	11.49084	0.1013896	0.18701438	3.0284428	21	12 14.1	20.5
331326 2011 YA_{35}	17.0	X	39.24727	157.18742	310.85533	7.06772	0.1696639	0.21809074	2.7334506	21	1 10.2	19.6
331327 2011 YZ_{44}	17.8	X	314.55239	259.47561	136.11566	4.68624	0.1308398	0.27959822	2.3162199	21	10 4.6	19.8
331328 2011 YT_{59}	17.7	X	68.37338	74.04292	121.33018	4.02850	0.0917577	0.24721581	2.5143085	21	6 22.1	20.7
331329 2012 BU_{10}	15.6	X	225.63180	65.60177	151.32071	16.64510	0.0888220	0.18628877	3.0363018	21	—	—
331330 2012 BH_{15}	15.0	X	165.06425	287.89004	300.46720	10.61642	0.1463728	0.17612181	3.1520562	21	11 15.0	20.3
331331 2012 BC_{17}	16.6	X	80.82531	248.48302	334.91998	4.03554	0.1518504	0.25342129	2.4730942	21	8 28.2	19.8
331332 2012 BD_{20}	15.7	X	255.82857	217.63307	261.54474	10.62081	0.1707808	0.18094449	3.0957970	21	9 30.8	20.4
331333 2012 BS_{22}	15.3	X	260.23576	17.21266	123.47881	14.26114	0.0471216	0.18250146	3.0781645	21	11 27.7	19.8
331334 2012 BA_{23}	17.2	X	138.10764	209.93300	326.63116	1.81215	0.1394432	0.26145354	2.4221797	21	8 28.6	20.8
331335 2012 BC_{34}	16.3	X	175.53961	185.24785	211.18483	6.18012	0.2696325	0.24117695	2.5561060	21	4 10.9	20.8
331336 2012 BL_{47}	16.6	X	293.17605	159.19824	143.69963	12.43409	0.0530282	0.23477415	2.6023709	21	4 28.0	20.3
331337 2012 BY_{52}	17.5	X	244.83895	190.58244	319.68371	6.40968	0.1650208	0.28241509	2.3007925	21	11 14.3	20.3
331338 2012 BT_{53}	17.3	X	180.35305	75.80991	2.65455	1.69257	0.1079281	0.24576648	2.5241836	21	6 2.7	21.1
331339 2012 BG_{75}	17.2	X	249.34721	149.16615	308.94011	6.34050	0.0612467	0.27556248	2.3387798	21	9 23.3	20.1
331340 2012 BW_{75}	17.3	X	260.24802	267.29042	94.54430	2.54370	0.2022534	0.25617429	2.4553440	21	5 10.2	20.9
331341 2012 BL_{102}	16.1	X	214.79368	263.10888	310.20797	8.90214	0.0707753	0.19202855	2.9754924	21	12 26.8	20.4
331342 2012 BJ_{112}	17.1	X	210.70549	87.03409	318.56475	9.60904	0.0840697	0.24456647	2.5324338	21	5 21.9	21.0
331343 2012 BB_{113}	16.6	X	313.69169	341.75378	266.06085	2.05183	0.0774601	0.22273364	2.6953314	21	3 5.5	20.2
331344 2012 BC_{113}	17.0	X	324.30934	6.88717	218.64985	1.53604	0.0752669	0.21950271	2.7217159	21	2 20.4	20.5
331345 2012 BX_{119}	16.3	X	219.32229	110.10767	146.84008	2.08447	0.1372225	0.19803169	2.9150516	21	—	—
331346 2012 BT_{126}	17.9	X	268.80559	115.50633	352.05245	6.75727	0.1358816	0.27814796	2.3242640	21	10 24.4	20.4
331347 2012 CR_{5}	15.6	X	119.62846	312.60252	7.47434	11.16892	0.0363758	0.19197834	2.9760112	21	—	—
331348 2012 CO_{12}	17.8	X	176.36136	111.11830	91.57863	2.26400	0.1236089	0.27468409	2.3437631	21	11 10.8	21.3
331349 2012 CP_{14}	16.8	X	125.46901	276.02606	107.18853	0.40772	0.0843908	0.21333568	2.7739187	21	1 23.8	20.7
331350 2012 CE_{15}	17.2	X	281.51880	308.01374	137.88072	6.10979	0.0933499	0.27706742	2.3303031	21	10 25.7	19.7
331351 2012 CV_{33}	17.3	X	43.16369	166.11625	162.80499	7.08105	0.1405229	0.27522862	2.3406707	21	12 2.9	20.3
331352 2012 CW_{33}	16.1	X	280.16696	176.73978	334.38372	6.44764	0.0855378	0.18558032	3.0440242	21	12 28.6	20.2
331353 2012 CN_{40}	17.9	X	198.84798	91.11282	14.66093	1.46984	0.1394802	0.25860828	2.4399135	21	7 28.4	21.5
331354 2012 CE_{46}	15.4	X	80.64795	355.72884	337.25811	8.89862	0.0537619	0.17868461	3.1218446	21	12 21.8	20.1
331355 2012 CL_{47}	16.0	X	12.37456	36.14881	16.36959	9.91623	0.0578061	0.18422392	3.0589476	21	—	—
331356 2012 CO_{52}	16.1	X	167.13190	186.86623	158.50162	14.50499	0.0891094	0.21196208	2.7858898	21	1 24.1	20.4
331357 2012 CV_{52}	17.3	X	196.03888	119.78038	104.24111	2.28947	0.1209759	0.28570601	2.2830905	21	12 31.0	20.4
331358 2012 CZ_{53}	17.4	X	188.87927	349.90531	123.38235	3.76902	0.1353573	0.25740496	2.4475117	21	7 27.8	21.0
331359 2012 DC_{6}	15.1	X	188.24129	160.48794	82.22006	10.57766	0.0759060	0.17989566	3.1078181	21	12 29.4	19.8
331360 2012 DA_{15}	17.6	X	141.11423	150.55456	338.57972	9.50583	0.1149757	0.24675579	2.5174324	21	6 29.0	21.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
331361 2012 DY_{17}	16.5	X	173.87026	273.59192	341.78719	23.18845	0.1768338	0.28066413	2.3103518	21	—	—
331362 2012 DF_{24}	17.7	X	203.30003	296.65660	346.58798	4.63978	0.1515416	0.29709723	2.2243527	21	—	—
331363 2012 DE_{26}	16.8	X	299.96510	305.06432	179.17857	0.38839	0.1065441	0.18382547	3.0633663	21	12 20.5	20.7
331364 2012 DK_{27}	15.4	X	167.07997	105.35761	176.13766	22.14065	0.0841326	0.18227032	3.0807662	21	—	—
331365 2012 DM_{34}	17.0	X	157.27506	264.69840	323.92902	4.24752	0.0486528	0.27271396	2.3550374	21	11 24.9	20.2
331366 2012 DN_{34}	17.5	X	104.76696	347.68478	256.14172	1.68918	0.1586592	0.25780696	2.4449667	21	10 21.2	21.3
331367 2012 DG_{38}	15.6	X	298.69894	120.59242	336.52180	10.64442	0.0802405	0.17830576	3.1262650	21	11 12.2	19.9
331368 2012 DJ_{44}	15.7	X	193.21194	247.63195	20.84904	15.02521	0.2255446	0.18110967	3.0939144	21	—	—
331369 2012 DJ_{48}	16.2	X	302.54952	322.55466	165.75832	12.35002	0.0907124	0.18524993	3.0476424	21	12 30.7	20.3
331370 2012 DX_{49}	17.2	X	131.91931	272.11525	163.06560	5.68715	0.0757367	0.22189179	2.7021444	21	4 5.8	21.1
331371 2012 DR_{53}	15.8	X	163.66139	157.24953	153.70285	10.82767	0.0666737	0.18846652	3.0128667	21	—	—
331372 2012 DZ_{57}	16.5	X	196.79439	83.30705	148.35749	6.01127	0.0988861	0.17677141	3.1443294	21	12 23.1	21.3
331373 2012 DY_{58}	16.2	X	205.06757	129.04318	102.29400	2.55549	0.1356210	0.17543310	3.1603004	21	12 27.4	21.1
331374 2012 DG_{72}	17.0	X	178.98828	79.12445	108.68969	7.00023	0.0697997	0.27002636	2.3706382	21	10 30.8	20.4
331375 2012 DC_{74}	16.7	X	357.47735	25.04843	180.23342	14.40234	0.0664480	0.21785509	2.7354214	21	3 14.8	20.2
331376 2012 DT_{79}	15.7	X	273.19217	135.46436	18.32823	14.30384	0.2157674	0.18180020	3.0860750	21	11 29.3	20.0
331377 2012 DO_{83}	17.8	X	192.57196	40.62106	162.39526	1.26221	0.1446349	0.27494560	2.3422767	21	11 26.1	21.1
331378 2012 DC_{87}	17.4	X	248.76545	225.84958	357.79995	6.31936	0.0829716	0.29459911	2.2369096	21	—	—
331379 2012 DX_{87}	16.8	X	6.94061	241.51053	348.74048	2.45447	0.1373387	0.22593544	2.6698067	21	4 29.1	19.5
331380 2012 DS_{88}	18.0	X	241.09452	41.29560	176.20953	6.45099	0.1892005	0.28879050	2.2668047	21	—	—
331381 2012 EE_{2}	17.5	X	153.01800	359.14874	216.85917	1.79133	0.1438795	0.26645629	2.3917662	21	11 2.4	20.9
331382 2012 ES_{2}	17.0	X	93.95776	282.57345	336.01330	1.90885	0.1954897	0.26115344	2.4240350	21	11 1.5	20.8
331383 2012 EE_{9}	16.4	X	39.85965	122.70769	94.30919	4.47111	0.0910073	0.23256573	2.6188195	21	6 7.9	19.3
331384 2012 EK_{12}	16.6	X	67.35711	258.23508	236.30130	3.01501	0.1765654	0.22195531	2.7016289	21	4 9.2	19.6
331385 2012 ES_{12}	17.7	X	201.23910	293.90016	210.39299	2.40760	0.0400401	0.26364468	2.4087407	21	9 27.5	20.8
331386 2012 EU_{12}	17.3	X	163.42826	39.02169	196.73525	3.44687	0.0599613	0.27717715	2.3296880	21	12 13.1	20.3
331387 2012 FV_{3}	16.2	X	318.26144	330.92179	271.78468	5.03964	0.0878014	0.21837794	2.7310535	21	3 2.7	19.9
331388 2012 FD_{11}	16.6	X	62.43862	242.84085	320.10195	2.59420	0.1495692	0.23375884	2.6099009	21	7 3.6	19.8
331389 2012 FJ_{13}	16.8	X	12.76648	25.32485	182.14081	2.69796	0.0230582	0.22445449	2.6815373	21	4 11.2	20.2
331390 2012 FC_{14}	17.6	X	190.94653	66.24763	181.27621	1.95864	0.1969061	0.28517811	2.2859072	21	—	—
331391 2012 FM_{15}	17.3	X	243.77006	195.40223	58.29826	5.45820	0.2053291	0.29987284	2.2106058	21	—	—
331392 2012 FV_{18}	16.3	X	310.82109	94.11625	13.73167	3.36566	0.0940690	0.18059876	3.0997467	21	12 16.2	20.2
331393 2012 FJ_{19}	17.9	X	223.34818	130.48545	140.43768	4.00295	0.1133454	0.30144573	2.2029093	21	—	—
331394 2012 FH_{22}	17.1	X	71.25069	10.13030	137.96117	4.17580	0.1218674	0.22537146	2.6742588	21	4 28.4	20.3
331395 2012 FR_{26}	18.1	X	287.38474	211.57415	17.44842	2.50217	0.1353915	0.30752722	2.1737704	21	—	—
331396 2012 FS_{28}	16.4	X	83.91742	61.20064	20.33166	5.77284	0.0221919	0.20940958	2.8084823	21	2 7.2	20.2
331397 2012 FP_{31}	15.4	X	266.92202	13.21164	147.53657	14.51816	0.1253846	0.17888623	3.1194985	21	12 16.8	19.8
331398 2012 FH_{32}	15.6	X	179.91862	24.84489	19.10905	32.16041	0.2715411	0.22986871	2.6392638	21	4 18.4	20.4
331399 2012 FJ_{32}	15.8	X	335.98493	61.28523	43.29024	11.47726	0.0656182	0.18274254	3.0754567	21	—	—
331400 2012 FH_{34}	16.2	X	216.24825	212.82730	67.43419	6.73416	0.0351768	0.19594921	2.9356687	21	—	—
331401 2012 FU_{39}	16.7	X	248.40375	261.65814	250.53680	4.72398	0.0696705	0.27723437	2.3293674	21	12 8.6	19.4
331402 2012 FY_{39}	17.2	X	177.96438	323.06081	274.90310	5.18993	0.2252657	0.27535042	2.3399804	21	12 19.3	21.0
331403 2012 FH_{41}	17.0	X	108.55970	347.70986	162.08468	6.37224	0.2661073	0.23611745	2.5924914	21	7 5.5	21.1
331404 2012 FD_{43}	16.3	X	45.97019	108.09487	78.99481	12.56196	0.1315206	0.22501838	2.6770556	21	5 14.1	19.4
331405 2012 FJ_{43}	16.8	X	265.22796	157.12423	190.96951	1.67626	0.0940615	0.22803205	2.6534167	21	5 12.2	20.5
331406 2012 FX_{43}	15.6	X	291.83194	210.21865	78.07433	15.16440	0.0346188	0.21914543	2.7246733	21	4 14.5	19.6
331407 2012 FW_{44}	16.9	X	84.81532	59.57451	95.11134	2.79926	0.1342673	0.23056744	2.6339290	21	5 27.7	20.1
331408 2012 FX_{44}	17.3	X	235.05276	237.27913	172.16086	24.71040	0.0975449	0.35142700	1.9887459	21	6 24.8	20.5
331409 2012 FQ_{47}	16.2	X	339.19824	261.45783	13.94752	12.12549	0.2474523	0.22664522	2.6642297	21	4 24.6	18.9
331410 2012 FM_{49}	15.9	X	145.56908	116.15667	163.14902	9.84860	0.0695514	0.17517281	3.1634302	21	12 27.9	20.9
331411 2012 FN_{56}	17.6	X	202.60351	55.68209	169.68981	5.43042	0.1259270	0.28254631	2.3000801	21	—	—
331412 2012 FD_{57}	16.6	X	77.06445	202.03428	86.77098	7.07701	0.0795017	0.26182875	2.4198651	21	11 12.0	19.8
331413 2012 FN_{59}	17.6	X	260.58142	92.46964	68.83059	3.52981	0.1000978	0.28544756	2.2844684	21	—	—
331414 2012 FV_{59}	15.9	X	333.45510	287.34524	150.79985	9.84321	0.1066801	0.17972393	3.1097975	21	12 14.3	19.8
331415 2012 FE_{62}	15.5	X	342.24134	322.90708	194.45395	9.26893	0.0414290	0.19217923	2.9739369	21	—	—
331416 2012 FW_{64}	17.9	X	215.96209	347.82498	149.19159	2.68588	0.1584128	0.26603587	2.3942854	21	9 24.7	21.2
331417 2012 FG_{67}	16.3	X	260.99674	119.70581	142.24944	7.95025	0.0311559	0.20552511	2.8437590	21	1 27.4	20.2
331418 2012 FD_{68}	15.8	X	193.18592	161.81350	67.71820	5.93649	0.1149442	0.17429800	3.1740062	21	12 15.2	20.7
331419 2012 FO_{69}	16.3	X	18.82907	308.96635	136.49500	4.56961	0.1113224	0.19275713	2.9679899	21	—	—
331420 2012 FQ_{72}	16.6	X	133.98643	156.29128	346.00753	5.94024	0.1397292	0.24036332	2.5618709	21	7 10.8	20.5
331421 2012 FW_{72}	16.2	X	358.75923	19.66482	196.24590	11.79587	0.1471674	0.21727582	2.7402811	21	3 24.2	19.2
331422 2012 FF_{73}	17.0	X	65.38404	177.91826	14.57949	0.85587	0.1364379	0.23082328	2.6319824	21	6 20.9	20.1
331423 2012 FZ_{76}	17.9	X	217.85949	296.15945	11.09479	2.38131	0.0842882	0.31079535	2.1585049	21	1 14.9	20.8
331424 2012 FK_{78}	15.8	X	50.19676	3.15352	215.27595	11.33139	0.1120380	0.23006063	2.6377958	21	6 28.5	19.1
331425 2012 GC_{1}	14.5	X	238.75361	314.13189	251.58499	22.24402	0.1825848	0.17788252	3.1312221	21	12 24.9	19.2
331426 2012 GE_{1}	16.4	X	352.43163	188.57468	28.55440	6.94519	0.1598141	0.21510386	2.7586964	21	3 17.1	19.4
331427 2012 GL_{2}	17.3	X	124.85618	37.20752	197.28417	10.64505	0.1821054	0.25749582	2.4469359	21	10 31.5	21.3
331428 2012 GL_{5}	16.8	X	41.76738	40.40182	177.26482	2.52318	0.1422271	0.23047317	2.6346472	21	6 18.6	19.6
331429 2012 GO_{12}	16.5	X	50.81132	43.25760	174.46181	13.92439	0.1974374	0.23060839	2.6336172	21	7 12.0	19.8
331430 2012 GP_{12}	17.9	X	201.46031	118.83275	121.53690	1.63166	0.1884399	0.27992980	2.3143904	21	—	—
331431 2012 GU_{12}	15.6	X	265.63380	230.11089	105.47792	14.88817	0.0625100	0.21719869	2.7409298	21	5 7.2	19.7
331432 2012 GW_{13}	15.5	X	147.13682	232.39011	128.98940	12.90428	0.1601266	0.18682084	3.0305341	21	2 3.9	20.3
331433 2012 GK_{15}	16.1	X	143.57938	34.06411	21.33840	6.95631	0.0062397	0.21274111	2.7790846	21	3 18.6	19.8
331434 2012 GJ_{16}	16.7	X	2.28988	279.42541	344.03541	6.50247	0.1382020	0.22702937	2.6612236	21	6 8.9	19.5
331435 2012 GC_{17}	16.8	X	121.45062	175.91419	129.65262	9.45650	0.2009575	0.27093501	2.3653348	21	—	—
331436 2012 GO_{17}	15.2	X	156.71767	189.06472	121.17763	14.21648	0.0560724	0.17708942	3.1405640	21	—	—
331437 2012 GR_{20}	16.4	X	0.42211	197.29875	108.03223	10.73000	0.1162249	0.23642374	2.5902519	21	8 10.9	19.1
331438 2012 GA_{21}	17.7	X	259.14753	145.23865	75.08050	0.31605	0.1015529	0.29341529	2.2429223	21	—	—
331439 2012 GC_{21}	15.8	X	164.86403	165.02206	138.71811	10.64791	0.0542580	0.18046503	3.1012779	21	—	—
331440 2012 GT_{22}	15.8	X	249.72804	62.28797	156.19049	11.31139	0.0332879	0.18090112	3.0962917	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
331441 2012 GX_{22}	15.9	X	352.76746	335.03298	176.58196	15.17717	0.0470624	0.19248883	2.9707472	21	1 5.3	20.2
331442 2012 GZ_{22}	15.7	X	137.70509	220.00910	109.92557	11.86032	0.2391328	0.17082271	3.2169105	21	—	—
331443 2012 HU_{1}	15.3	X	106.32229	238.88073	124.04713	11.47425	0.0208843	0.18140528	3.0905523	21	—	—
331444 2012 HO_{3}	16.2	X	201.06949	163.67162	117.29525	3.62052	0.0942995	0.18219979	3.0815612	21	—	—
331445 2012 HD_{6}	15.5	X	260.54148	136.82922	91.21698	16.22192	0.0502608	0.18742193	3.0240510	21	—	—
331446 2012 HN_{6}	16.2	X	358.16615	46.64770	199.50264	16.83458	0.2142522	0.21703031	2.7423473	21	5 3.8	18.7
331447 2012 HG_{7}	17.0	X	128.89274	168.69751	141.85666	7.21051	0.1558240	0.27290661	2.3539289	21	—	—
331448 2012 HX_{7}	15.5	X	229.23125	18.54210	213.51536	27.53190	0.1442687	0.17590311	3.1546683	21	—	—
331449 2012 HM_{9}	15.9	X	252.27227	106.01149	135.14551	11.73818	0.0783486	0.18727841	3.0255958	21	—	—
331450 2012 HC_{16}	15.6	X	36.00345	339.12510	160.70584	15.31165	0.0927351	0.20308226	2.8665184	21	2 17.7	19.0
331451 2012 HM_{16}	15.2	X	183.96343	122.68581	155.05367	9.23105	0.2067390	0.17456000	3.1708295	21	—	—
331452 2012 HF_{18}	16.0	X	299.54723	332.42338	196.36565	17.14472	0.0621436	0.17884978	3.1199223	21	—	—
331453 2012 HF_{20}	15.1	X	162.61951	188.57253	111.21363	14.83071	0.1266984	0.17525525	3.1624380	21	—	—
331454 2012 HF_{23}	15.7	X	42.10311	301.31546	94.66161	10.39629	0.0657378	0.17575673	3.1564196	21	—	—
331455 2012 HJ_{23}	15.7	X	120.57221	239.67179	127.89127	10.92437	0.1127742	0.18742460	3.0240223	21	1 7.9	19.9
331456 2012 HK_{24}	16.0	X	253.09604	173.83679	148.35174	9.78188	0.1480107	0.21019649	2.8014685	21	3 24.6	20.4
331457 2012 HN_{26}	17.1	X	314.34456	189.35088	95.08707	2.80780	0.1173555	0.21778678	2.7359934	21	4 20.9	20.5
331458 2012 HW_{26}	16.9	X	251.94457	130.85321	177.52282	4.18334	0.0696205	0.20676319	2.8323955	21	3 11.3	21.0
331459 2012 HW_{27}	15.6	X	230.01011	79.30894	193.40323	9.32295	0.0465850	0.18993357	2.9973323	21	1 6.6	20.1
331460 2012 HA_{28}	16.6	X	61.84745	55.18931	118.73389	4.47353	0.0384872	0.21989992	2.7184374	21	5 8.5	20.1
331461 2012 HZ_{29}	16.1	X	233.28261	29.35921	197.57562	10.56700	0.0178241	0.17845277	3.1245479	21	—	—
331462 2012 HA_{30}	16.9	X	179.63587	331.45319	145.69197	3.47482	0.0699117	0.23957597	2.5674808	21	7 23.3	20.7
331463 2012 HF_{30}	16.0	X	347.39545	81.28933	62.14140	11.94884	0.0297597	0.18857980	3.0116599	21	—	—
331464 2012 HB_{32}	17.6	X	234.77978	170.33101	104.47755	1.06837	0.1356433	0.29893163	2.2152435	21	—	—
331465 2012 HG_{34}	15.5	X	187.32258	242.04405	85.67323	10.48364	0.1088619	0.18939040	3.0030605	21	1 31.5	20.3
331466 2012 HR_{34}	16.6	X	97.09228	2.33495	200.10444	14.81770	0.0998260	0.24102474	2.5571819	21	8 7.6	20.4
331467 2012 HY_{36}	17.2	X	172.71305	212.47857	102.53789	7.44938	0.1229026	0.29004251	2.2602767	21	—	—
331468 2012 JB	15.5	X	239.91856	158.01132	52.79701	15.47998	0.1363458	0.17553260	3.1591059	21	—	—
331469 6006 $P–L$	17.5	X	149.52668	171.95108	203.37942	5.65679	0.1739172	0.29905137	2.2146521	21	2 5.5	20.5
331470 3171 $T–3$	17.9	X	104.50110	142.87858	199.84194	4.05305	0.2182744	0.27546349	2.3393400	21	—	—
331471 1984 QY_{1}	15.6	X	114.11821	337.18324	142.26504	14.28266	0.8938621	0.24931525	2.5001735	21	7 13.1	21.7
331472 1993 BB_{9}	15.9	X	296.80773	230.60906	120.87659	15.37847	0.1251393	0.22443279	2.6817102	21	6 24.4	19.5
331473 1993 TP_{5}	16.7	X	344.56616	132.68429	257.49078	3.00174	0.2097542	0.21207872	2.7848682	21	11 10.8	19.3
331474 1994 PO_{14}	16.6	X	132.90472	49.16990	309.08010	5.14657	0.2603820	0.27161991	2.3613570	21	1 14.1	19.8
331475 1995 SZ_{13}	18.2	X	167.22371	354.55606	356.13230	12.29093	0.0978511	0.24661459	2.5183932	21	1 31.0	22.0
331476 1995 US_{17}	16.6	X	24.90011	118.10210	216.86221	4.40901	0.2878638	0.23069703	2.6329425	21	11 29.1	19.6
331477 1996 TO_{24}	16.1	X	52.74015	47.62450	212.29083	13.58393	0.1283931	0.23245152	2.6196772	21	8 29.7	19.7
331478 1997 TR_{19}	17.0	X	80.09343	311.91504	352.33333	2.82108	0.2071939	0.25166258	2.4846027	21	12 14.9	20.8
331479 1997 WS_{11}	17.2	X	78.31064	138.82719	228.43556	2.23908	0.2721010	0.25660458	2.4525985	21	—	—
331480 1997 WP_{15}	16.8	X	121.46363	281.58960	212.80791	4.80253	0.1503950	0.23009561	2.6375285	21	6 16.9	20.7
331481 1998 KH_{12}	16.1	X	279.56043	152.71300	188.32751	12.78818	0.1571247	0.21420965	2.7663685	21	5 14.3	20.2
331482 1998 RM_{23}	17.1	X	79.62382	8.42045	358.99136	4.28121	0.2639864	0.27032788	2.3688751	21	—	—
331483 1998 SY_{49}	14.7	X	342.39246	334.81519	14.36127	0.62327	0.2674360	0.12561428	3.9486020	21	8 21.9	18.8
331484 1998 UX	16.2	X	156.20521	120.75643	254.33098	21.31075	0.2926816	0.27864722	2.3214869	21	2 17.5	20.5
331485 1998 VM_{43}	17.7	X	46.51966	317.26833	92.51204	1.66462	0.1148542	0.26660398	2.3908828	21	—	—
331486 1998 VQ_{56}	16.3	X	343.64696	157.71980	228.96627	12.35247	0.2401927	0.25767092	2.4458272	21	11 21.7	18.0
331487 1998 WA_{30}	16.4	X	130.16235	154.30874	233.72505	10.99061	0.1099908	0.18832027	3.0144264	21	2 7.5	21.0
331488 1998 YT_{33}	17.0	X	100.89627	281.57865	282.84569	4.63822	0.1471405	0.23956072	2.5675898	21	8 23.3	20.8
331489 1999 BA_{31}	15.9	X	167.68745	279.30406	114.44098	10.66403	0.1027831	0.18685974	3.0301135	21	4 3.3	20.7
331490 1999 GB_{16}	16.1	X	148.03664	326.40510	195.89656	13.56350	0.1295510	0.23621336	2.5917896	21	8 14.9	20.3
331491 1999 NK_{32}	16.5	X	25.31696	201.70064	124.15724	8.91896	0.3193870	0.22952758	2.6418782	21	11 24.8	19.7
331492 1999 RG_{168}	16.2	X	269.46394	247.85504	162.47966	9.19129	0.1939560	0.21984994	2.7188493	21	7 23.9	20.2
331493 1999 RU_{199}	15.8	X	354.06771	76.84680	248.28971	10.07119	0.2032524	0.22288287	2.6941282	21	8 21.7	18.5
331494 1999 RN_{205}	15.9	X	258.20662	120.75355	286.66526	10.34372	0.1716992	0.21715744	2.7412769	21	7 10.9	19.9
331495 1999 RY_{221}	17.4	X	244.55868	53.62821	278.76670	4.23111	0.2594756	0.29979195	2.2110034	21	3 9.3	21.1
331496 1999 RN_{238}	16.0	X	256.85680	92.45655	252.36258	11.69357	0.2267786	0.21162344	2.7888610	21	4 11.9	20.7
331497 1999 TK_{76}	18.0	X	216.76119	291.69948	25.59131	2.85856	0.1849821	0.29234324	2.2484022	21	2 1.3	21.6
331498 1999 TX_{123}	16.4	X	307.75011	189.73971	199.65116	12.56276	0.2335010	0.22075615	2.7114036	21	8 12.9	19.7
331499 1999 TR_{170}	15.9	X	317.22531	78.84856	203.80160	12.61313	0.1891950	0.21128252	2.7918603	21	4 10.7	19.3
331500 1999 TH_{232}	16.0	X	269.84562	282.17316	139.20727	10.66694	0.3339748	0.21798456	2.7343382	21	7 20.5	20.2
331501 1999 TS_{272}	15.4	X	281.00175	77.76981	253.72666	11.09497	0.1807160	0.21261619	2.7801730	21	4 26.3	19.5
331502 1999 TH_{307}	16.1	X	276.74868	130.92227	210.81259	11.95459	0.1540521	0.21262344	2.7801098	21	5 11.2	20.1
331503 1999 TF_{315}	16.5	X	2.10916	116.39126	189.42262	8.74441	0.0738663	0.21911091	2.7249595	21	8 7.6	19.9
331504 1999 UJ_{16}	16.3	X	274.17150	141.67114	220.98140	13.31179	0.2155040	0.21395753	2.7685412	21	5 26.7	20.4
331505 1999 UN_{36}	17.0	X	307.26149	75.89510	237.60737	2.21628	0.1980753	0.21596633	2.7513469	21	5 5.8	20.6
331506 1999 VC_{12}	16.2	X	348.27881	109.96945	268.87709	4.85462	0.4048674	0.22460885	2.6803086	21	12 4.2	17.3
331507 1999 XQ_{117}	15.7	X	286.01254	125.63910	265.75315	7.82493	0.2017522	0.21661385	2.7458611	21	7 18.9	19.3
331508 1999 XC_{261}	15.9	X	176.55323	130.75857	258.73512	11.32623	0.1166771	0.20025130	2.8934712	21	3 27.3	20.6
331509 1999 YA	18.2	X	17.01883	265.53186	106.17401	38.24051	0.3391322	0.45391702	1.6768147	21	—	—
331510 2000 AE_{6}	17.5	X	313.98772	279.54288	119.66287	11.89308	0.5520137	0.21980878	2.7191887	21	7 11.3	20.4
331511 2000 AU_{223}	15.7	X	290.67988	76.92098	127.22721	22.91543	0.0577594	0.18361519	3.0657046	21	—	—
331512 2000 BP_{41}	17.5	X	171.32791	70.68133	129.86282	6.05385	0.1492155	0.25870934	2.4392781	21	11 1.9	21.4
331513 2000 CU_{19}	15.9	X	358.86557	334.53084	144.47256	21.47502	0.2615938	0.18343665	3.0676936	21	—	—
331514 2000 DO_{78}	16.9	X	88.55431	180.53162	345.19416	13.16045	0.1232189	0.24211095	2.5495279	21	6 13.9	20.5
331515 2000 DS_{95}	15.4	X	1.00821	341.38953	143.95129	19.43547	0.1321399	0.18210199	3.0826644	21	—	—
331516 2000 EA_{147}	15.5	X	308.05077	17.59736	141.19835	24.54922	0.1667691	0.17729199	3.1381712	21	—	—
331517 2000 FW_{4}	16.5	X	234.58045	94.70014	188.60024	4.54567	0.0997906	0.17888619	3.1194989	21	1 23.6	21.4
331518 2000 JE_{31}	16.1	X	157.84629	349.59812	237.03179	10.43283	0.1630948	0.25316729	2.4747480	21	11 17.9	20.1
331519 2000 NJ_{19}	17.0	X	18.98122	61.41339	283.65218	2.26464	0.3238971	0.24018732	2.5631223	21	12 11.5	19.9
331520 2000 QV_{32}	16.6	X	334.12076	287.42571	85.18975	4.69377	0.3008241	0.23539632	2.5977834	21	9 25.1	18.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
331521 2000 QY_{40}	17.6	X	331.41295	44.91558	307.07776	2.34160	0.2941574	0.28118828	2.3074798	21	8 10.2	18.4
331522 2000 QD_{70}	17.0	X	48.53272	160.98685	167.42625	12.47933	0.3742472	0.24216982	2.5491146	21	12 30.7	21.3
331523 2000 QE_{202}	16.4	X	326.23834	215.35928	146.48712	10.58071	0.2235866	0.23364937	2.6107161	21	8 17.6	18.5
331524 2000 RJ	16.1	X	48.03102	88.11962	230.45312	10.78405	0.2726407	0.24221954	2.5487658	21	12 6.9	19.7
331525 2000 RM_{103}	16.6	X	21.25553	168.16621	218.14418	15.11188	0.2233191	0.24169957	2.5524199	21	—	—
331526 2000 SF_{5}	16.8	X	343.05639	155.13583	189.87709	24.55121	0.2531390	0.28188257	2.3036893	21	9 8.2	18.3
331527 2000 SM_{21}	16.4	X	346.29018	187.44403	182.42834	16.79178	0.2441550	0.23590329	2.5940602	21	10 27.8	18.5
331528 2000 SY_{95}	17.2	X	347.31322	119.98820	215.83578	4.41622	0.2791660	0.23370994	2.6102649	21	8 27.3	18.8
331529 2000 SR_{126}	16.0	X	276.00826	209.40773	190.91772	14.41216	0.2615312	0.22693586	2.6619545	21	7 8.2	20.1
331530 2000 SM_{135}	16.1	X	253.70734	215.35403	214.47803	12.50479	0.2229934	0.22852497	2.6495998	21	7 25.2	20.3
331531 2000 SO_{143}	16.3	X	281.00105	153.61873	227.55775	9.48757	0.1003403	0.22862881	2.6487974	21	7 13.5	20.0
331532 2000 SJ_{192}	16.7	X	52.10149	238.53327	77.92137	6.42217	0.2947463	0.24005999	2.5640286	21	12 10.8	20.5
331533 2000 SG_{204}	16.7	X	302.20862	348.97282	11.48530	2.19329	0.1543417	0.22856382	2.6492995	21	7 10.2	19.8
331534 2000 SC_{254}	16.7	X	11.00872	171.57760	154.89143	5.91951	0.2714631	0.23569012	2.5956241	21	10 23.4	19.0
331535 2000 SN_{273}	16.5	X	310.23545	156.82009	204.27356	15.32155	0.1592454	0.22929270	2.6436821	21	7 19.4	19.9
331536 2000 SC_{284}	16.7	X	335.99258	119.02282	222.89484	13.21115	0.1719323	0.23221868	2.6214281	21	8 7.4	19.6
331537 2000 SR_{314}	16.0	X	38.02400	107.41123	262.86773	13.97148	0.1544293	0.24301756	2.5431830	21	—	—
331538 2000 SO_{340}	16.8	X	348.26005	199.82268	136.83580	4.63014	0.1956453	0.23412709	2.6071635	21	9 3.7	18.8
331539 2000 SX_{348}	16.7	X	331.65032	225.36593	126.77876	10.38790	0.2326544	0.23257415	2.6187563	21	8 15.3	18.7
331540 2000 SC_{349}	16.1	X	358.74104	199.22871	155.07574	19.11779	0.2192244	0.23625424	2.5914906	21	11 3.6	18.9
331541 2000 TQ_{20}	16.2	X	328.62865	279.83539	56.02741	12.90606	0.2048858	0.23013327	2.6372407	21	7 16.8	18.9
331542 2000 TZ_{34}	17.0	X	301.77258	331.44139	40.47266	3.49557	0.2051944	0.22928797	2.6437185	21	7 17.9	20.0
331543 2000 TT_{36}	16.4	X	311.36700	307.32204	42.34314	12.48861	0.1963947	0.22825085	2.6517207	21	7 3.0	19.6
331544 2000 TG_{54}	16.7	X	349.29157	156.07199	205.15085	14.66899	0.1879142	0.23397531	2.6082909	21	10 13.1	18.8
331545 2000 UE_{59}	16.7	X	269.48077	130.77486	242.39899	6.47054	0.2121420	0.22482203	2.6786140	21	6 3.7	20.7
331546 2000 UG_{68}	15.7	X	8.20321	63.26121	252.18982	14.62660	0.1914187	0.23124979	2.6287452	21	9 5.6	18.6
331547 2000 VL_{39}	17.0	X	42.67884	94.22464	247.86687	3.35401	0.2939721	0.24052302	2.5607369	21	—	—
331548 2000 VO_{47}	15.2	X	348.61784	105.27256	281.41711	27.32190	0.3783687	0.23178754	2.6246778	21	12 19.7	17.0
331549 2000 WG_{18}	17.3	X	348.43312	307.83019	79.36942	6.14609	0.2102342	0.28232701	2.3012710	21	12 8.4	19.0
331550 2000 WP_{53}	17.6	X	108.72786	337.18589	65.78772	4.92152	0.1063709	0.29915240	2.2141535	21	1 10.9	19.8
331551 2000 WL_{54}	16.1	X	297.31943	271.14825	284.40055	22.98194	0.3166384	0.28662904	2.2781864	21	—	—
331552 2000 WH_{65}	16.3	X	283.00975	202.51593	212.67569	15.14608	0.1316650	0.23123742	2.6288389	21	8 24.6	19.9
331553 2000 WZ_{71}	16.3	X	12.97067	129.76363	255.62054	11.17115	0.2501244	0.23832288	2.5764727	21	—	—
331554 2000 WH_{160}	16.5	X	298.25906	153.69609	218.80937	13.39777	0.2803362	0.22713065	2.6604324	21	6 27.3	20.0
331555 2000 XA_{2}	16.6	X	313.41684	235.27124	256.57976	24.44971	0.0552458	0.38606589	1.8679350	21	—	—
331556 2000 XE_{54}	17.4	X	107.12035	330.44883	89.54024	5.36594	0.0849046	0.30019061	2.2090454	21	1 29.9	19.7
331557 2000 YZ_{14}	16.1	X	13.04133	112.40916	255.79557	28.23881	0.3147581	0.23639167	2.5904861	21	12 27.1	19.1
331558 2001 BJ_{6}	15.0	X	40.23572	98.23623	273.89843	16.37826	0.3127649	0.23721645	2.5844780	21	—	—
331559 2001 DV_{24}	16.2	X	131.89054	134.82805	359.14546	7.76452	0.1731257	0.21001224	2.8031068	21	6 30.3	20.7
331560 2001 HB_{40}	17.8	X	213.12106	34.40887	209.22439	11.24299	0.1878897	0.27550609	2.3390989	21	—	—
331561 2001 KO_{19}	17.2	X	189.59727	151.45582	76.55517	5.96725	0.2507175	0.26965379	2.3728213	21	12 14.3	20.9
331562 2001 MS_{7}	15.7	X	250.66117	93.59611	204.06814	15.80746	0.2996929	0.18426476	3.0584956	21	2 8.1	21.3
331563 2001 OJ_{18}	15.2	X	173.56167	102.55300	283.27692	16.33488	0.2295720	0.18063580	3.0993230	21	3 22.7	20.9
331564 2001 OF_{27}	16.5	X	119.82025	33.87414	234.05521	15.40529	0.1206144	0.25926514	2.4357907	21	12 3.7	20.1
331565 2001 OU_{31}	15.5	X	205.09201	90.72734	226.74795	18.83508	0.3837643	0.17482571	3.1676159	21	1 30.9	21.9
331566 2001 PY_{9}	16.8	X	162.72304	57.30266	260.56960	3.37128	0.2302462	0.27009193	2.3702545	21	—	—
331567 2001 PR_{57}	15.9	X	195.91819	176.24744	152.48590	19.57994	0.2134581	0.17500583	3.1654421	21	2 10.8	21.4
331568 2001 QE_{37}	15.4	X	171.35797	195.59355	133.50943	18.06919	0.1920811	0.17301418	3.1896883	21	1 23.1	20.7
331569 2001 QO_{52}	16.9	X	22.10916	202.96018	173.71902	2.56821	0.2003946	0.25447128	2.4662866	21	—	—
331570 2001 QS_{67}	16.3	X	104.32079	53.56023	303.58453	7.75402	0.1786077	0.26563274	2.3967072	21	—	—
331571 2001 QH_{92}	16.0	X	165.46741	267.12624	100.24589	8.35351	0.2420254	0.17515323	3.1636659	21	3 8.4	21.5
331572 2001 QC_{168}	17.0	X	187.38468	246.31210	79.81825	6.78509	0.1234232	0.27335251	2.3513683	21	1 15.7	20.5
331573 2001 QL_{197}	16.2	X	92.47163	98.40900	253.92962	13.60030	0.1634036	0.25953696	2.4340897	21	—	—
331574 2001 QW_{226}	16.9	X	116.80531	69.81952	266.80392	5.39227	0.1678599	0.26359084	2.4090686	21	—	—
331575 2001 QV_{228}	16.7	X	81.13374	103.70816	260.31167	7.02647	0.1071237	0.26195000	2.4191184	21	—	—
331576 2001 QR_{264}	15.4	X	169.94934	51.90483	295.07526	15.09797	0.2435127	0.17296748	3.1902624	21	2 10.1	21.0
331577 2001 QR_{275}	15.1	X	169.65326	184.33988	140.05692	25.08996	0.1909768	0.17073352	3.2180307	21	1 17.1	20.5
331578 2001 RS_{65}	15.3	X	148.31444	110.70463	243.67507	6.84307	0.1494733	0.16913199	3.2383135	21	1 27.3	20.4
331579 2001 RD_{72}	15.3	X	172.71244	126.00830	212.67467	12.91753	0.2741304	0.17091584	3.2157418	21	2 4.2	21.2
331580 2001 RP_{90}	17.6	X	112.38575	234.61434	110.05109	3.25436	0.2324114	0.26343767	2.4100023	21	—	—
331581 2001 SO_{13}	17.2	X	137.96045	149.51997	167.79519	2.59671	0.2285112	0.26466728	2.4025322	21	—	—
331582 2001 SD_{80}	17.7	X	73.66305	147.50555	185.21777	4.71329	0.2002048	0.25862146	2.4398306	21	—	—
331583 2001 SV_{119}	16.1	X	133.75364	331.75338	321.10331	7.00456	0.1253145	0.21071842	2.7968406	21	—	—
331584 2001 SE_{143}	17.2	X	139.15782	66.67254	290.62113	2.78711	0.1654074	0.26801221	2.3825005	21	1 7.6	20.1
331585 2001 SP_{143}	16.9	X	74.25227	165.24356	187.35549	10.37704	0.2488645	0.25886557	2.4382965	21	—	—
331586 2001 SU_{206}	16.2	X	182.88018	312.19471	7.06964	5.07955	0.1280357	0.17019519	3.2248129	21	1 20.7	21.3
331587 2001 TW	15.7	X	216.37437	281.25041	58.04403	22.35925	0.4970193	0.17926820	3.1150657	21	3 17.5	22.4
331588 2001 TZ_{22}	15.8	X	153.26747	195.11645	195.82665	18.46046	0.2073375	0.17274955	3.1929450	21	3 18.9	21.1
331589 2001 TN_{103}	17.3	X	34.37141	125.94998	224.63528	20.60205	0.0823400	0.34964617	1.9954930	21	12 24.2	19.8
331590 2001 TY_{132}	16.9	X	151.20866	8.35444	291.90213	4.49823	0.2132806	0.26338500	2.4103236	21	—	—
331591 2001 TY_{170}	15.2	X	169.33279	102.27228	229.39696	7.98152	0.1877655	0.16928932	3.2363067	21	1 22.7	20.6
331592 2001 TQ_{248}	16.8	X	104.06345	238.83151	50.04291	2.49547	0.0757404	0.20430854	2.8550368	21	12 1.4	21.1
331593 2001 UJ_{97}	16.4	X	210.69072	295.22729	200.62806	14.53378	0.0923151	0.24250923	2.5467357	21	9 18.7	20.2
331594 2001 UL_{106}	16.2	X	136.43485	337.13538	206.34298	13.43811	0.0332673	0.23878197	2.5731693	21	8 23.6	20.1
331595 2001 UF_{208}	18.0	X	103.63821	31.00659	308.62020	1.82247	0.1947417	0.26085528	2.4258817	21	—	—
331596 2001 UT_{221}	17.0	X	25.37735	281.38863	104.64053	0.96211	0.1273507	0.25167842	2.4844985	21	—	—
331597 2001 VG_{12}	15.5	X	201.78816	88.02344	250.88099	22.55552	0.4249506	0.17455398	3.1709025	21	2 17.6	22.1
331598 2001 VR_{20}	16.7	X	294.81929	166.97702	229.66983	5.72064	0.1547557	0.24005853	2.5640389	21	8 16.6	19.7
331599 2001 VW_{80}	15.7	X	193.30151	221.61494	245.78210	21.23493	0.0585265	0.23437558	2.6053204	21	7 19.6	19.9
331600 2001 VH_{89}	16.0	X	127.03828	32.31948	257.33703	14.00672	0.1315934	0.25481591	2.4640623	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
331601 2001 WL_{17}	17.3	X	85.45170	69.79416	288.02965	1.18376	0.2233394	0.25877161	2.4388867	21	—	—
331602 2001 WZ_{46}	17.2	X	110.87887	103.47087	230.27269	5.39837	0.2546922	0.25878529	2.4388008	21	—	—
331603 2001 WM_{51}	15.7	X	209.49857	102.70214	224.28533	24.80712	0.2158060	0.17281672	3.1921176	21	2 11.7	21.7
331604 2001 WD_{98}	16.8	X	173.93603	234.58019	238.06503	8.32048	0.1401944	0.23212835	2.6221081	21	7 10.1	21.0
331605 2001 XB_{5}	16.3	X	200.84686	340.34008	101.56967	13.18843	0.2391064	0.22860450	2.6489852	21	6 25.6	20.8
331606 2001 XB_{19}	16.1	X	214.54203	29.59961	45.82098	8.83475	0.1375957	0.23005667	2.6378261	21	7 4.5	20.3
331607 2001 XA_{96}	16.4	X	330.86594	103.89173	262.47175	5.42266	0.1172317	0.23964862	2.5669620	21	9 10.3	19.3
331608 2001 XA_{112}	16.3	X	185.37280	212.42065	235.71299	13.10581	0.1768720	0.22804604	2.6533081	21	6 20.3	20.8
331609 2001 XN_{216}	16.2	X	273.33040	211.10804	246.98716	9.89808	0.1612376	0.24139001	2.5546016	21	10 6.6	19.5
331610 2001 XK_{245}	16.2	X	22.90740	68.95084	251.84283	26.86837	0.0919843	0.24157032	2.5533303	21	9 27.5	20.0
331611 2001 XJ_{250}	15.8	X	301.27478	134.02741	258.90228	11.10018	0.1686123	0.23792000	2.5793805	21	8 16.7	18.9
331612 2001 YD_{24}	16.8	X	45.18561	359.03585	20.33690	3.81747	0.1922674	0.25300992	2.4757741	21	—	—
331613 2001 YB_{88}	16.8	X	108.71476	27.96982	97.77871	8.77801	0.2281452	0.21938128	2.7227201	21	6 2.3	20.9
331614 2001 YA_{137}	15.7	X	143.65315	80.60494	279.58537	20.89536	0.3160401	0.26655243	2.3911911	21	1 28.2	19.6
331615 2002 AQ_{38}	16.7	X	314.78302	269.81753	118.17605	12.94065	0.2883371	0.23983366	2.5656414	21	8 25.8	18.9
331616 2002 AP_{39}	16.0	X	259.95003	321.39370	128.45795	22.76293	0.0438562	0.23494831	2.6010847	21	10 6.5	19.9
331617 2002 AZ_{68}	16.8	X	235.25911	187.83852	184.42688	6.16743	0.0443344	0.21878708	2.7276477	21	5 14.8	20.7
331618 2002 AL_{82}	16.2	X	225.17824	181.51319	253.00188	13.29188	0.1360247	0.23179149	2.6246479	21	7 11.6	20.3
331619 2002 AO_{84}	16.5	X	309.85717	288.33893	146.44189	7.93859	0.1867897	0.24255421	2.5464208	21	11 12.1	18.9
331620 2002 AY_{102}	16.7	X	348.80271	348.11978	45.00920	2.65430	0.1697032	0.24179013	2.5517826	21	11 29.7	19.1
331621 2002 CT_{5}	16.3	X	70.84314	15.62249	137.53710	15.00043	0.1163438	0.21484582	2.7609049	21	5 8.9	20.1
331622 2002 CL_{36}	16.4	X	67.72048	194.93184	319.57086	8.82923	0.0927016	0.21510323	2.7587019	21	4 22.2	20.1
331623 2002 CS_{130}	16.2	X	156.54880	319.35063	152.51973	22.36020	0.0429622	0.22027548	2.7153466	21	6 20.7	20.5
331624 2002 CR_{232}	16.1	X	87.00265	317.63237	335.01840	9.38134	0.0831403	0.23477451	2.6023683	21	11 20.1	20.0
331625 2002 CE_{272}	16.0	X	177.36601	282.12982	237.83624	10.52157	0.2038926	0.22984033	2.6394811	21	9 6.9	20.7
331626 2002 DM_{5}	17.0	X	58.71238	318.00907	193.14726	8.81078	0.2553185	0.21254990	2.7807510	21	5 4.2	20.0
331627 2002 EM_{62}	15.9	X	340.50422	75.93524	183.88467	14.20817	0.0405392	0.21342055	2.7731832	21	5 7.9	19.6
331628 2002 FU_{4}	16.4	X	91.51294	15.82862	127.44677	16.57571	0.1893381	0.21538286	2.7563136	21	6 3.1	20.5
331629 2002 GD_{28}	16.3	X	112.79993	192.84665	357.77613	6.80412	0.1253921	0.17203526	3.2017769	21	8 16.8	21.1
331630 2002 GB_{59}	17.6	X	89.68555	171.30741	10.71521	1.39701	0.1300443	0.26654789	2.3912182	21	7 10.3	20.6
331631 2002 GS_{70}	15.8	X	340.84382	41.34375	194.91345	15.07796	0.0953360	0.20529117	2.8459190	21	3 29.9	19.2
331632 2002 GE_{117}	17.2	X	59.70022	114.99913	106.86191	5.06484	0.1289108	0.26661171	2.3908367	21	7 24.0	19.9
331633 2002 GQ_{124}	16.0	X	193.12772	201.05499	202.78598	15.31062	0.1394547	0.21098429	2.7944905	21	5 5.7	20.6
331634 2002 GW_{180}	16.3	X	319.61580	9.58548	65.94646	6.69002	0.2979586	0.23878003	2.5731833	21	11 26.6	17.5
331635 2002 GC_{184}	17.0	X	6.18030	90.95442	178.91879	4.08099	0.0589143	0.21430214	2.7655725	21	6 26.3	20.4
331636 2002 JK_{7}	17.0	X	149.88270	80.14685	152.69553	6.05917	0.1515300	0.22838610	2.6506737	21	11 17.3	21.3
331637 2002 JZ_{108}	17.4	X	176.64411	231.62256	102.28604	27.85559	0.0773486	0.39838815	1.8292165	21	—	—
331638 2002 JP_{123}	16.2	X	9.30509	83.49775	81.37697	15.25061	0.2608678	0.20239471	2.8730066	21	1 27.9	19.0
331639 2002 NS_{3}	15.7	X	197.12558	104.43934	233.35764	16.44047	0.1729856	0.18669506	3.0318950	21	2 14.4	21.1
331640 2002 ND_{5}	16.0	X	116.23262	256.07233	122.29560	12.34713	0.1999801	0.18125233	3.0922907	21	1 28.9	20.4
331641 2002 NW_{35}	15.3	X	199.43115	21.56909	278.01943	12.08813	0.1074920	0.18300186	3.0725506	21	1 8.8	20.1
331642 2002 NQ_{36}	15.5	X	167.00244	77.69182	254.46834	8.72387	0.1414654	0.18278203	3.0750136	21	1 16.9	20.4
331643 2002 NQ_{39}	18.3	X	216.58379	134.88488	176.92186	6.81751	0.2214000	0.29179933	2.2511954	21	1 23.7	22.2
331644 2002 NN_{58}	17.8	X	161.85660	136.95489	212.01783	4.69171	0.2292938	0.28760216	2.2730446	21	1 23.9	21.3
331645 2002 NX_{68}	18.1	X	194.93793	176.42856	145.47072	5.84872	0.1873657	0.28992439	2.2608906	21	1 17.8	21.5
331646 2002 NU_{72}	15.6	X	150.89739	84.06395	276.90378	9.70072	0.0713438	0.18561527	3.0436421	21	1 27.4	20.1
331647 2002 NF_{79}	16.0	X	358.81808	15.26108	325.71758	5.53753	0.0241298	0.21370637	2.7707100	21	9 18.3	19.7
331648 2002 OQ_{31}	15.6	X	206.75278	135.52337	122.77015	27.94767	0.1026285	0.18004019	3.1061546	21	—	—
331649 2002 OJ_{32}	15.8	X	205.89368	168.19076	174.13731	11.59627	0.1343729	0.18977409	2.9990113	21	3 4.4	20.7
331650 2002 OJ_{34}	16.6	X	227.61016	64.86520	222.30241	3.58097	0.1620212	0.18546782	3.0452551	21	1 18.7	21.6
331651 2002 PX_{2}	17.3	X	72.36297	156.67203	233.39626	9.22815	0.2166358	0.27766054	2.3269833	21	—	—
331652 2002 PN_{5}	15.9	X	165.54749	88.95405	265.26987	8.96857	0.1569384	0.18350705	3.0669089	21	2 9.2	20.9
331653 2002 PB_{9}	17.0	X	69.18200	186.47387	171.07738	5.63856	0.1836300	0.22309239	2.6924411	21	—	—
331654 2002 PK_{16}	16.6	X	71.61841	173.79065	130.54291	12.21387	0.1412113	0.21875205	2.7279389	21	11 27.6	20.7
331655 2002 PR_{25}	16.1	X	248.52564	124.15447	151.56594	12.17217	0.0788169	0.18706788	3.0278654	21	1 28.8	20.7
331656 2002 PP_{30}	16.4	X	220.72608	128.69569	179.06000	5.88134	0.2158860	0.18675944	3.0311982	21	2 3.9	21.7
331657 2002 PF_{33}	18.0	X	207.96949	137.49661	159.15540	5.63212	0.1764779	0.28946679	2.2632727	21	—	—
331658 2002 PC_{39}	15.8	X	182.11556	29.28386	293.22279	8.69836	0.1029465	0.18284099	3.0743526	21	1 19.0	20.5
331659 2002 PH_{90}	15.4	X	152.08425	94.54912	242.88472	10.57486	0.2616425	0.17888004	3.1195705	21	1 18.6	20.7
331660 2002 PS_{101}	18.0	X	201.52983	76.46176	236.35371	5.64810	0.2380751	0.28947389	2.2632357	21	1 14.0	21.9
331661 2002 PG_{102}	16.6	X	226.71743	120.35731	204.56992	6.79037	0.2671061	0.18952746	3.0016124	21	2 25.2	21.9
331662 2002 PT_{103}	15.4	X	122.75637	172.75811	192.31537	11.15867	0.1068173	0.17934947	3.1141246	21	1 6.9	20.0
331663 2002 PN_{105}	17.0	X	124.40621	156.54115	209.20769	6.12333	0.1659761	0.28270299	2.2992302	21	—	—
331664 2002 PC_{106}	16.1	X	221.91125	114.95508	251.49938	9.36999	0.1403147	0.19357612	2.9596126	21	4 14.2	21.0
331665 2002 PB_{137}	15.7	X	154.63629	214.74740	148.60724	22.46909	0.0843274	0.18404695	3.0609082	21	2 6.2	20.2
331666 2002 PR_{138}	15.7	X	180.95761	182.21649	186.88900	16.40586	0.2050450	0.18600324	3.0394083	21	3 15.5	21.0
331667 2002 PP_{162}	17.3	X	242.11855	124.29343	125.65747	8.32345	0.1725430	0.28808485	2.2705048	21	—	—
331668 2002 PK_{167}	15.8	X	124.80986	251.37112	136.72081	12.44961	0.0894012	0.18204563	3.0833007	21	2 4.3	20.3
331669 2002 PL_{168}	16.2	X	111.96252	239.40964	144.48440	10.55348	0.1110199	0.17969509	3.1101303	21	1 18.0	20.6
331670 2002 PF_{178}	17.5	X	179.95336	27.79098	252.79102	6.43407	0.1041505	0.28191411	2.3035174	21	—	—
331671 2002 PO_{181}	15.9	X	226.46628	340.51232	263.14408	11.28008	0.0208854	0.17658521	3.1465393	21	—	—
331672 2002 PF_{184}	16.3	X	221.85605	282.24513	28.26357	4.77718	0.2435790	0.18759028	3.0222415	21	2 10.1	21.6
331673 2002 PS_{184}	17.5	X	223.15257	317.81062	352.74235	4.73200	0.0870154	0.29130955	2.2537180	21	1 29.5	20.6
331674 2002 PU_{188}	15.9	X	322.30703	272.47560	320.19721	9.46759	0.0248126	0.19134301	2.9825952	21	3 8.1	20.0
331675 2002 PB_{194}	16.7	X	30.11515	249.59703	180.62974	21.91169	0.0395685	0.22647397	2.6655726	21	—	—
331676 2002 PA_{195}	17.5	X	223.96313	136.96809	132.35114	7.94421	0.1414070	0.28815674	2.2701272	21	—	—
331677 2002 PS_{199}	15.9	X	305.11769	353.78648	159.73505	10.75756	0.1011120	0.17789605	3.1310632	21	—	—
331678 2002 QC_{10}	17.8	X	219.39821	16.83432	293.97824	4.83268	0.1853945	0.28985643	2.2612440	21	1 25.6	21.5
331679 2002 QG_{13}	16.0	X	122.55845	185.40271	172.43223	11.96229	0.1025417	0.17774278	3.1328631	21	—	—
331680 2002 QY_{24}	15.2	X	124.90090	158.82148	235.60305	22.89506	0.3603575	0.17894603	3.1188035	21	3 5.5	20.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
331681 2002 QY_{65}	18.1	X	215.03706	310.85289	329.46946	3.59144	0.2406338	0.28791417	2.2714021	21	—	—
331682 2002 QK_{77}	18.0	X	220.14360	242.23013	29.96776	3.22620	0.2178908	0.28791253	2.2714107	21	—	—
331683 2002 QF_{79}	16.7	X	100.27297	140.19467	105.95434	3.82412	0.0605745	0.21311828	2.7758048	21	10 7.2	20.6
331684 2002 QJ_{90}	15.9	X	223.28778	175.29801	141.72216	16.61860	0.0584634	0.18615023	3.0378081	21	2 23.3	20.5
331685 2002 QB_{92}	18.5	X	172.72244	69.77672	228.91770	2.73401	0.2237005	0.28200486	2.3030232	21	—	—
331686 2002 QR_{101}	15.8	X	112.67240	104.91916	275.03273	6.51088	0.0547580	0.17968211	3.1102800	21	1 6.8	20.0
331687 2002 QF_{104}	17.9	X	218.69308	105.88141	177.55411	8.95727	0.1488942	0.28771457	2.2724525	21	—	—
331688 2002 QB_{112}	16.0	X	130.66059	255.48403	165.44243	14.22489	0.1745812	0.18645055	3.0345451	21	4 2.6	20.7
331689 2002 QX_{116}	17.7	X	100.81443	246.38713	137.41395	6.82669	0.0951676	0.28199725	2.3030647	21	—	—
331690 2002 QS_{119}	17.2	X	255.81310	62.20169	149.23092	23.09847	0.1592622	0.28341567	2.2953741	21	—	—
331691 2002 QB_{122}	16.5	X	196.79837	133.29960	194.63127	7.36961	0.1361792	0.18461198	3.0546595	21	2 6.9	21.5
331692 2002 QK_{127}	15.7	X	108.98218	269.94951	129.58237	11.21888	0.0820908	0.18198896	3.0839408	21	1 29.4	19.9
331693 2002 QR_{130}	15.9	X	85.46308	267.44652	132.22746	9.00174	0.0330710	0.17898107	3.1183963	21	—	—
331694 2002 QR_{141}	15.5	X	71.96900	135.28713	263.43826	9.79748	0.0695916	0.17526249	3.1623509	21	—	—
331695 2002 QQ_{142}	15.8	X	86.89118	103.57712	272.42645	8.06426	0.0744677	0.17381431	3.1798919	21	—	—
331696 2002 QA_{148}	17.5	X	213.69139	356.49219	268.68200	5.51560	0.1488617	0.28499133	2.2869059	21	—	—
331697 2002 RX_{4}	15.4	X	100.38174	165.42435	278.90876	11.98264	0.0480973	0.18523319	3.0478261	21	3 2.7	19.9
331698 2002 RS_{44}	16.1	X	203.03905	316.94393	57.08878	2.36422	0.1866040	0.18999347	2.9967023	21	4 9.1	21.0
331699 2002 RT_{45}	17.2	X	98.53919	312.83944	48.23753	1.98727	0.2999855	0.27721137	2.3294963	21	—	—
331700 2002 RO_{46}	17.7	X	145.51445	218.53401	135.42127	3.52092	0.2462644	0.28351410	2.2948428	21	1 17.7	20.8
331701 2002 RC_{55}	16.9	X	162.24246	116.92895	212.56555	6.32732	0.1506011	0.28284159	2.2984790	21	—	—
331702 2002 RJ_{69}	15.9	X	203.74061	161.29748	168.31216	10.67091	0.1723344	0.18471427	3.0535316	21	2 15.9	20.9
331703 2002 RB_{71}	16.5	X	227.37686	28.55618	272.03966	6.14007	0.3557303	0.18627304	3.0364727	21	1 28.6	22.2
331704 2002 RV_{72}	16.3	X	248.14020	140.68449	172.13243	6.32904	0.1465844	0.18994445	2.9972179	21	3 8.3	20.9
331705 2002 RV_{89}	17.5	X	54.25471	200.59434	178.98731	2.14147	0.2087364	0.27260767	2.3556495	21	—	—
331706 2002 RN_{92}	16.3	X	242.38425	152.98808	170.57039	8.66383	0.2781060	0.18959358	3.0009146	21	3 7.9	21.4
331707 2002 RK_{105}	16.9	X	82.15344	354.54807	17.52056	5.54751	0.2398682	0.27385894	2.3484687	21	—	—
331708 2002 RU_{143}	17.7	X	167.03392	118.76747	201.88135	6.65265	0.1350425	0.28257699	2.2999136	21	—	—
331709 2002 RC_{151}	15.7	X	110.19594	79.68966	281.21517	7.88472	0.0655461	0.17540515	3.1606361	21	—	—
331710 2002 RK_{185}	15.7	X	204.64792	85.73240	270.19111	7.65889	0.0960086	0.18721445	3.0262849	21	3 16.5	20.6
331711 2002 RF_{186}	15.3	X	143.06917	178.15338	202.35220	18.12216	0.2562745	0.18094035	3.0958442	21	2 27.2	20.6
331712 2002 RY_{201}	15.5	X	173.60102	221.85627	128.35371	11.05784	0.1895837	0.18244640	3.0787837	21	2 17.9	20.6
331713 2002 RF_{240}	17.8	X	159.51990	70.09640	311.05759	3.81075	0.1562246	0.28901770	2.2656166	21	2 24.6	21.1
331714 2002 RS_{253}	16.7	X	187.53182	61.37822	187.65555	11.59510	0.0336541	0.22245418	2.6975883	21	—	—
331715 2002 RF_{255}	16.5	X	216.23819	311.69718	43.11101	2.47627	0.1776107	0.19046900	2.9917124	21	3 28.7	21.3
331716 2002 RU_{255}	15.8	X	236.71285	82.15667	185.11338	20.45656	0.1457877	0.18371089	3.0646399	21	1 3.9	21.2
331717 2002 RV_{280}	15.9	X	21.34662	21.71855	141.40578	10.66069	0.0323979	0.18769860	3.0210786	21	3 2.9	19.9
331718 2002 RM_{287}	16.9	X	123.14776	118.10072	170.03768	9.24098	0.0837843	0.21989438	2.7184831	21	12 23.9	21.1
331719 2002 SS_{55}	17.4	X	109.26794	266.46826	106.65776	3.33814	0.2606317	0.27865592	2.3214386	21	—	—
331720 2002 SC_{59}	15.6	X	138.19355	280.31482	69.97520	6.28733	0.1651894	0.17598536	3.1536853	21	1 16.1	20.4
331721 2002 SJ_{73}	15.9	X	95.75880	240.63693	133.14841	9.12070	0.0412011	0.17507645	3.1645908	21	—	—
331722 2002 TR_{10}	16.8	X	20.84067	258.09189	179.36500	21.33142	0.3313734	0.27148233	2.3621547	21	—	—
331723 2002 TG_{71}	15.5	X	97.46654	174.88762	280.27544	9.81180	0.0764757	0.18201592	3.0836362	21	3 17.7	19.9
331724 2002 TB_{73}	16.7	X	0.98533	103.45129	299.40739	5.51873	0.1201996	0.26544823	2.3978177	21	—	—
331725 2002 TO_{86}	15.4	X	144.04998	228.28730	158.71376	11.07438	0.1347152	0.18153808	3.0890449	21	2 28.9	20.1
331726 2002 TU_{90}	17.0	X	134.53415	128.59143	217.37837	8.57672	0.2161721	0.27914281	2.3187384	21	—	—
331727 2002 TC_{99}	16.7	X	250.65557	102.51837	9.14699	6.44809	0.1193057	0.25881476	2.4386156	21	10 5.8	19.7
331728 2002 TP_{103}	15.6	X	66.38796	238.76316	204.82687	15.70064	0.0694726	0.17643476	3.1483278	21	1 23.3	20.1
331729 2002 TW_{112}	15.4	X	224.34961	73.86932	190.73037	16.32543	0.1982552	0.17775419	3.1327289	21	—	—
331730 2002 TM_{123}	15.4	X	154.96054	93.64352	250.65269	9.43362	0.1310894	0.17806013	3.1291394	21	1 18.9	20.3
331731 2002 TW_{126}	17.9	X	120.70975	265.80751	100.76429	4.41045	0.2254754	0.28079322	2.3096436	21	1 2.0	20.4
331732 2002 TJ_{128}	15.6	X	221.44699	26.35362	295.80536	8.85272	0.0832182	0.18414684	3.0598011	21	2 22.8	20.4
331733 2002 TS_{138}	15.9	X	248.27078	213.54211	259.48902	8.11956	0.2029427	0.25563416	2.4588014	21	9 17.6	19.5
331734 2002 TS_{158}	15.5	X	106.04883	226.14026	159.01923	16.78260	0.2572131	0.17437022	3.1731299	21	2 1.7	20.2
331735 2002 TE_{169}	15.4	X	52.03115	167.26539	244.87696	14.36986	0.1440201	0.17078771	3.2173500	21	—	—
331736 2002 TE_{185}	15.3	X	170.07662	136.29316	205.38146	9.24034	0.1620698	0.17978481	3.1090954	21	1 31.3	20.5
331737 2002 TV_{217}	17.5	X	249.12152	190.69912	92.94772	3.31178	0.2173470	0.28611685	2.2809044	21	1 18.0	21.1
331738 2002 TL_{218}	16.9	X	208.59891	44.32419	277.36271	7.23189	0.1726978	0.28851365	2.2682547	21	1 28.3	20.4
331739 2002 TC_{263}	15.9	X	196.40705	217.40013	141.97147	2.77853	0.1809147	0.18460225	3.0547667	21	3 18.1	20.9
331740 2002 TJ_{274}	15.9	X	125.01639	125.63513	228.24327	10.03236	0.2791818	0.17327547	3.1864809	21	1 17.1	21.0
331741 2002 TZ_{278}	15.3	X	160.33483	81.15618	300.97802	8.78456	0.1096838	0.18099502	3.0952208	21	3 5.7	20.2
331742 2002 TE_{279}	16.7	X	2.65235	159.65131	232.61634	11.62447	0.1859873	0.26417775	2.4054993	21	12 31.8	19.4
331743 2002 TT_{293}	16.3	X	168.86073	108.57463	251.71644	4.30055	0.3330300	0.18188081	3.0851631	21	2 28.8	22.0
331744 2002 TP_{308}	17.7	X	259.99347	178.37305	122.10628	5.58699	0.1806797	0.29230868	2.2485795	21	2 18.9	21.0
331745 2002 TW_{347}	17.6	X	141.70593	176.94392	109.95530	7.82739	0.1130786	0.27116932	2.3639721	21	—	—
331746 2002 TN_{352}	18.4	X	230.91037	69.80303	225.84528	4.28400	0.1837804	0.29002366	2.2603746	21	1 16.2	22.0
331747 2002 TJ_{383}	16.0	X	120.85870	266.74472	80.12782	20.39793	0.1602723	0.17007824	3.2262911	21	—	—
331748 2002 UE_{22}	15.2	X	94.76759	164.95827	226.08358	27.23275	0.1729188	0.17065797	3.2189804	21	1 9.2	20.1
331749 2002 UM_{41}	17.0	X	109.12681	328.59721	70.25720	6.82284	0.1680161	0.27918005	2.3185322	21	1 21.9	19.5
331750 2002 VX_{13}	17.6	X	51.77638	126.73191	247.95710	19.90243	0.0897179	0.37349980	1.9096003	21	—	—
331751 2002 VN_{21}	17.1	X	99.51630	8.05683	352.18284	5.90219	0.2602923	0.27523977	2.3406075	21	—	—
331752 2002 VY_{66}	17.6	X	159.49769	70.50794	308.57672	2.84186	0.2604009	0.28488941	2.2874512	21	3 3.8	21.3
331753 2002 VL_{120}	15.2	X	175.34722	63.62937	289.24635	9.64859	0.0776070	0.17627252	3.1502594	21	2 13.6	20.1
331754 2002 VO_{136}	17.1	X	166.51943	106.74478	239.47804	8.58758	0.1802926	0.28155883	2.3054548	21	1 20.2	20.6
331755 2002 VY_{144}	17.9	X	85.67078	154.58905	193.24158	0.81040	0.1918439	0.27064784	2.3670077	21	—	—
331756 2002 VF_{148}	16.3	X	75.56709	252.60949	233.13683	6.08117	0.0631361	0.17856039	3.1232923	21	3 29.4	20.5
331757 2002 WH_{6}	14.9	X	109.79483	158.46753	240.17043	27.20934	0.2348453	0.17418408	3.1753900	21	2 8.5	20.1
331758 2002 XH_{9}	17.1	X	34.85848	296.34777	80.19374	5.18397	0.1370219	0.26469364	2.4023727	21	—	—
331759 2002 XA_{19}	16.3	X	143.58201	100.90344	240.01456	22.89867	0.1959901	0.27887210	2.3202387	21	—	—
331760 2002 XR_{24}	17.6	X	55.90042	24.61655	27.85050	1.77039	0.1648418	0.27082649	2.3659667	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
331761 2002 XS_{32}	15.0	X	160.52788	123.67447	273.86327	15.34147	0.2337983	0.17938201	3.1137480	21	3 27.7	20.6
331762 2002 XR_{49}	18.0	X	304.31224	163.43367	253.42177	19.11675	0.1093868	0.36087673	1.9538751	21	11 1.9	19.7
331763 2002 XG_{81}	16.3	X	219.57290	78.51283	24.24524	5.07129	0.1731448	0.24431274	2.5341869	21	8 13.4	20.3
331764 2002 XW_{98}	17.1	X	351.41222	285.07789	123.62450	2.45746	0.1271895	0.26146193	2.4221279	21	12 28.0	19.6
331765 2002 XS_{119}	16.1	X	179.84861	257.87873	117.47361	9.67115	0.2390456	0.18133798	3.0913169	21	3 28.2	21.6
331766 2002 YO_{5}	15.4	X	154.42333	255.67263	247.50260	26.02532	0.2536892	0.23694590	2.5864450	21	7 25.1	20.4
331767 2002 YJ_{23}	16.6	X	75.73381	285.97368	113.42750	7.33836	0.0989147	0.26993256	2.3711874	21	—	—
331768 2003 BC_{3}	16.6	X	100.22148	62.84601	125.56432	30.57218	0.3135565	0.23266412	2.6180812	21	8 22.6	21.1
331769 2003 BQ_{35}	19.6	X	52.93305	223.95228	136.99098	8.48317	0.2452324	0.57913996	1.4254337	21	—	—
331770 2003 BP_{53}	17.2	X	302.87984	161.81008	339.80529	3.52239	0.1011175	0.25947994	2.4344462	21	—	—
331771 2003 CY_{21}	16.6	X	192.10817	250.60730	222.44882	5.45680	0.2227674	0.23987420	2.5653524	21	7 26.0	21.0
331772 2003 DO_{12}	16.6	X	201.59237	300.95940	167.28503	17.10843	0.1229398	0.23817935	2.5775078	21	8 1.3	20.8
331773 2003 EU_{15}	16.8	X	128.67074	121.77118	35.45149	5.25996	0.1744963	0.23479183	2.6022402	21	7 28.1	20.9
331774 2003 EQ_{38}	15.9	X	54.27609	330.18575	264.47868	10.03965	0.1648387	0.23058699	2.6337801	21	8 3.6	19.3
331775 2003 ES_{39}	16.3	X	143.10777	39.68693	105.38312	14.10177	0.1953729	0.23394788	2.6084948	21	7 26.5	20.5
331776 2003 EE_{53}	17.2	X	111.68281	66.98844	81.32509	7.15364	0.2761162	0.23061893	2.6335369	21	7 8.2	21.4
331777 2003 EF_{59}	15.8	X	80.87367	289.69918	314.44453	28.12744	0.3460330	0.23290588	2.6162691	21	9 27.3	20.7
331778 2003 EN_{59}	16.1	X	51.01081	30.96103	172.05024	10.08162	0.3154529	0.22457715	2.6805609	21	7 12.4	19.2
331779 2003 FY_{29}	16.9	X	113.72205	37.79402	137.26762	8.43039	0.1480186	0.23220238	2.6215507	21	7 31.3	20.8
331780 2003 FT_{33}	16.9	X	74.50864	235.68138	29.55637	5.05410	0.1488409	0.23611269	2.5925263	21	10 13.5	20.3
331781 2003 FQ_{131}	16.2	X	116.82452	341.17171	178.19230	13.86107	0.1889072	0.22680945	2.6629435	21	7 16.6	20.6
331782 2003 GQ_{43}	16.0	X	47.47377	171.98236	108.07892	13.76989	0.1658634	0.23125036	2.6287408	21	10 6.9	19.6
331783 2003 GB_{44}	16.3	X	30.20584	133.39484	139.38729	13.66074	0.2432782	0.22627584	2.6671284	21	9 5.3	19.0
331784 2003 GB_{56}	16.6	X	55.43399	63.77575	178.76273	10.41938	0.0107271	0.22876793	2.6477235	21	7 25.1	20.2
331785 Sumners	16.4	X	87.20507	277.20170	239.72813	25.39791	0.4313854	0.22623258	2.6674684	21	7 6.9	21.1
331786 2003 HK_{30}	15.8	X	100.84997	307.10747	232.23502	12.27181	0.1045663	0.22680807	2.6629543	21	7 13.7	19.8
331787 2003 JU_{8}	16.2	X	14.41157	72.39051	185.70848	10.81336	0.1085335	0.22313642	2.6920869	21	6 24.5	19.5
331788 2003 JC_{14}	16.4	X	39.54497	58.38713	188.10909	13.09390	0.2206831	0.22495762	2.6775376	21	8 5.2	19.5
331789 2003 KO_{14}	16.3	X	62.04729	131.03703	114.44827	13.65733	0.1351739	0.22691640	2.6621067	21	9 1.8	19.9
331790 2003 KE_{20}	15.5	X	54.43133	95.10229	232.49470	15.47107	0.2744397	0.23488369	2.6015618	21	12 22.1	19.5
331791 2003 LP_{5}	16.3	X	259.57663	307.17241	46.19942	6.94409	0.0455507	0.22152001	2.7051670	21	5 18.2	19.9
331792 2003 MT_{2}	15.9	X	50.98274	304.59494	305.10281	27.90599	0.5332668	0.22378644	2.6868713	21	9 28.9	20.7
331793 2003 MV_{4}	16.1	X	349.06971	44.83323	269.76821	13.19284	0.2059941	0.21979797	2.7192779	21	7 25.1	18.6
331794 2003 MG_{6}	15.8	X	342.07513	55.33570	260.55845	7.50018	0.2423841	0.21850165	2.7300226	21	7 9.3	18.0
331795 2003 MU_{9}	16.0	X	23.48027	186.43942	118.73944	16.21548	0.2017056	0.22810971	2.6528144	21	10 9.5	19.2
331796 2003 OJ_{3}	15.6	X	300.99678	84.07567	274.27015	13.34764	0.1351921	0.21571939	2.7534462	21	7 7.0	18.9
331797 2003 ON_{17}	17.5	X	308.24873	343.29988	2.02605	2.22077	0.2517343	0.27065372	2.3669734	21	6 9.0	19.9
331798 2003 QP_{48}	17.5	X	292.25697	328.11939	353.55325	1.61278	0.2157152	0.26428877	2.4048256	21	4 19.2	20.6
331799 2003 QS_{58}	16.4	X	331.90750	215.43930	73.17575	3.42523	0.2380134	0.21162494	2.7888478	21	5 6.9	19.1
331800 2003 QR_{80}	16.5	X	288.90210	3.21584	6.36536	1.62887	0.2517140	0.21233582	2.7826198	21	6 16.8	20.1
331801 2003 QJ_{107}	16.9	X	357.04868	250.84810	65.10220	7.16557	0.2425734	0.27335337	2.3513634	21	9 4.9	18.4
331802 2003 QA_{120}	15.9	X	299.29451	35.71992	298.55730	7.74527	0.1111896	0.20989688	2.8041338	21	6 5.5	19.5
331803 2003 RS_{15}	15.8	X	343.42677	16.15979	291.00328	8.29540	0.1546649	0.21600688	2.7510026	21	7 7.5	18.5
331804 2003 RY_{15}	17.7	X	182.83361	180.79088	186.51929	3.47759	0.1683107	0.30676523	2.1773686	21	3 1.2	20.9
331805 2003 SS_{10}	16.7	X	329.80499	338.37981	350.27448	4.70945	0.1616627	0.21307010	2.7762232	21	7 12.5	19.7
331806 2003 SA_{15}	15.1	X	75.97231	155.24013	172.81706	23.17285	0.1035471	0.17408200	3.1766313	21	12 16.9	20.2
331807 2003 SQ_{20}	16.5	X	306.59458	341.55979	348.81682	4.62320	0.1577797	0.21135701	2.7912042	21	6 3.1	20.1
331808 2003 SJ_{52}	16.2	X	136.16924	269.93207	117.35969	2.74504	0.1173763	0.18975307	2.9992328	21	2 18.8	20.6
331809 2003 SQ_{71}	16.7	X	305.80191	42.79489	302.33425	6.93897	0.2409768	0.21256600	2.7806106	21	6 9.1	20.1
331810 2003 SZ_{93}	16.0	X	230.85172	179.21744	203.95959	13.34124	0.1520639	0.20279685	2.8692072	21	5 15.9	20.7
331811 2003 SU_{99}	15.9	X	3.34387	116.39662	208.07094	13.78970	0.4131097	0.21944721	2.7221748	21	10 21.3	17.4
331812 2003 SH_{182}	15.9	X	135.13327	118.41447	256.13014	7.24138	0.0478910	0.18848921	3.0126248	21	1 22.7	20.3
331813 2003 SL_{191}	15.8	X	260.14526	110.55267	218.75488	10.90803	0.1261584	0.20278243	2.8693432	21	4 8.7	20.1
331814 2003 SH_{195}	16.2	X	212.61400	122.08804	218.18864	10.59079	0.1349266	0.19478590	2.9473455	21	3 4.7	21.2
331815 2003 SF_{249}	16.0	X	153.48265	221.08882	171.79248	2.86517	0.2407994	0.19207499	2.9750128	21	3 23.8	21.0
331816 2003 SJ_{282}	16.0	X	119.16181	60.12184	4.63526	8.49005	0.2016088	0.19103449	2.9858056	21	3 26.7	20.6
331817 2003 SV_{286}	17.0	X	220.33186	81.09374	272.89338	1.34312	0.1744189	0.19945596	2.9011579	21	3 29.1	21.7
331818 2003 SR_{292}	15.7	X	71.60462	131.00431	274.37491	6.95749	0.1073736	0.18183816	3.0856455	21	—	—
331819 2003 SG_{306}	15.1	X	120.58049	127.05039	249.22847	8.81128	0.1164407	0.18346476	3.0673802	21	1 17.7	19.5
331820 2003 SE_{325}	16.8	X	318.34984	35.35337	283.88642	3.27007	0.1972648	0.21192977	2.7861729	21	5 31.8	20.0
331821 2003 SM_{377}	17.6	X	304.99832	116.88136	137.74680	1.77995	0.1515650	0.25476194	2.4644103	21	2 15.9	20.6
331822 2003 SN_{392}	17.5	X	124.38940	264.32756	133.57127	5.00914	0.0099865	0.30018332	2.2090812	21	1 10.9	20.0
331823 2003 SU_{404}	16.3	X	19.74015	12.30626	58.18279	12.37334	0.1278730	0.17626285	3.1503746	21	—	—
331824 2003 SU_{424}	16.8	X	169.84755	245.86331	185.92121	1.76438	0.0482145	0.20320058	2.8654055	21	5 14.1	21.0
331825 2003 TC_{8}	15.9	X	298.00293	336.69482	305.25066	8.80224	0.0602416	0.19813820	2.9140069	21	3 31.1	20.1
331826 2003 TW_{12}	15.6	X	240.17899	84.01497	222.37651	8.65625	0.0478808	0.19517078	2.9434693	21	2 23.9	20.1
331827 2003 TD_{17}	16.2	X	303.74089	63.70148	208.35943	12.92220	0.1105237	0.20058222	2.8902879	21	3 20.6	20.2
331828 2003 TB_{39}	16.1	X	264.12138	6.46507	246.19774	7.79565	0.2447953	0.19172810	2.9786001	21	1 4.2	21.2
331829 2003 TX_{42}	16.2	X	165.83558	139.02642	224.65947	7.32930	0.1061818	0.18877709	3.0095613	21	2 16.8	20.9
331830 2003 UO	15.9	X	330.46135	85.58045	236.19228	17.26922	0.2977602	0.21200351	2.7855269	21	6 10.9	18.6
331831 2003 UF_{2}	16.2	X	31.21382	113.63271	340.53309	3.52161	0.0413346	0.18226953	3.0807751	21	—	—
331832 2003 UT_{28}	17.4	X	125.65962	209.17018	197.75890	7.53903	0.0469630	0.30098264	2.2051684	21	1 28.9	20.0
331833 2003 UD_{30}	15.7	X	61.86572	233.17186	204.90889	10.80797	0.0630642	0.18455299	3.0553104	21	1 9.9	19.9
331834 2003 UC_{47}	15.9	X	312.47147	220.84141	145.35649	9.82818	0.3063260	0.21263837	2.7799797	21	7 8.8	18.9
331835 2003 UN_{56}	15.6	X	74.53638	208.02608	222.33321	16.48298	0.2353347	0.18189839	3.0849643	21	2 5.7	19.7
331836 2003 UQ_{72}	16.3	X	102.60251	219.35368	221.57177	8.83813	0.0604676	0.18885156	3.0087700	21	3 5.4	20.7
331837 2003 UL_{92}	15.5	X	151.84383	130.65372	247.85390	8.75348	0.1157487	0.18908655	3.0062768	21	2 19.9	20.2
331838 2003 UJ_{95}	15.7	X	169.70193	317.92819	61.81440	7.19843	0.2263232	0.19250115	2.9706204	21	3 23.6	20.8
331839 2003 UB_{135}	16.0	X	105.33546	199.02006	212.19606	10.52227	0.1026788	0.18643643	3.0346984	21	2 6.5	20.4
331840 2003 UA_{156}	18.0	X	303.36607	81.35703	136.62311	5.39016	0.0440284	0.29976231	2.2111491	21	1 1.9	20.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
331841 2003 UO_{166}	16.1	X	311.17875	311.92047	217.97933	9.87927	0.0238536	0.17953603	3.1119669	21	—	—
331842 2003 UM_{196}	15.3	X	69.96308	195.02275	221.39983	21.46794	0.0503529	0.18093213	3.0959379	21	—	—
331843 2003 UM_{203}	17.6	X	254.47711	78.64734	232.19982	4.18079	0.1588417	0.30725121	2.1750721	21	2 23.3	20.9
331844 2003 UT_{216}	15.5	X	32.51947	217.99643	220.18879	16.65193	0.1947999	0.17771198	3.1332250	21	—	—
331845 2003 US_{227}	15.5	X	252.67134	51.20884	239.41531	10.97970	0.1849066	0.19243073	2.9713451	21	2 7.5	20.5
331846 2003 UJ_{232}	15.7	X	54.62142	36.31178	18.21923	10.78332	0.0447947	0.17897440	3.1184738	21	—	—
331847 2003 UV_{259}	15.4	X	158.82192	137.34955	246.26108	21.82035	0.2253662	0.18873714	3.0099860	21	3 7.3	20.9
331848 2003 UB_{262}	17.7	X	185.51563	136.53058	243.46996	5.04313	0.2703259	0.30508282	2.1853662	21	3 23.2	21.5
331849 2003 UG_{275}	15.2	X	111.92853	153.06666	236.86186	9.08918	0.0924192	0.18319858	3.0703507	21	1 20.1	19.6
331850 2003 UH_{280}	16.5	X	309.07647	271.93174	217.46752	21.91965	0.2170439	0.27928932	2.3179274	21	—	—
331851 2003 UR_{283}	15.4	X	150.54162	120.95795	242.37179	9.49116	0.1067834	0.18557683	3.0440624	21	2 1.0	20.2
331852 2003 US_{336}	16.4	X	356.53857	301.49218	183.61586	9.14504	0.1177151	0.18270281	3.0759026	21	—	—
331853 2003 US_{342}	15.8	X	176.35017	306.87342	15.05413	8.89931	0.0331137	0.18577896	3.0418540	21	1 9.3	20.3
331854 2003 VH_{5}	15.5	X	69.34806	130.15348	246.85285	8.14964	0.0743443	0.17375869	3.1805705	21	—	—
331855 2003 VT_{8}	16.0	X	145.33985	315.85287	39.36503	9.12232	0.1212895	0.18465437	3.0541919	21	1 24.7	20.7
331856 2003 WC_{4}	16.1	X	192.46123	158.95377	232.87592	8.70590	0.0919730	0.19446565	2.9505804	21	4 18.7	20.6
331857 2003 WN_{7}	15.2	X	288.58027	280.11276	106.81919	30.49082	0.4049892	0.21101865	2.7941871	21	6 20.5	19.5
331858 2003 WG_{69}	17.4	X	203.42398	109.77252	227.81255	3.73251	0.1895435	0.30110834	2.2045546	21	2 11.3	20.9
331859 2003 WZ_{107}	15.7	X	162.24133	124.50889	240.58700	9.51326	0.1232084	0.18971014	2.9996852	21	2 14.9	20.6
331860 2003 WQ_{144}	17.3	X	75.12247	240.23199	243.57459	6.06798	0.0742922	0.30070958	2.2065031	21	3 6.8	19.8
331861 2003 WK_{148}	16.1	X	89.30895	285.67519	109.09988	6.31158	0.1471564	0.17956416	3.1116419	21	1 8.0	20.0
331862 2003 WZ_{178}	16.1	X	233.81730	55.32041	226.95696	8.66851	0.0357046	0.18507601	3.0495514	21	1 22.2	20.7
331863 2003 XV_{17}	15.0	X	89.04648	290.48304	126.66113	22.85165	0.1490860	0.17964000	3.1107660	21	2 4.8	19.2
331864 2003 YW_{54}	17.6	X	331.13088	23.08456	80.31630	2.92938	0.1627927	0.27916770	2.3186005	21	—	—
331865 2003 YZ_{55}	15.1	X	94.45339	312.49574	85.20922	21.16304	0.1349321	0.17828278	3.1265338	21	1 17.7	19.5
331866 2003 YR_{79}	15.6	X	101.57333	115.78704	297.30349	8.13646	0.1061462	0.17806265	3.1291099	21	2 8.2	19.9
331867 2003 YE_{93}	15.8	X	121.49534	295.33668	77.94643	10.59703	0.1761210	0.18058277	3.0999297	21	1 27.3	20.4
331868 2003 YA_{111}	15.5	X	109.60636	110.49583	283.74274	8.20134	0.0671075	0.17459039	3.1704616	21	1 22.2	20.0
331869 2003 YZ_{162}	15.4	X	136.12970	299.47080	76.57589	17.23207	0.2460576	0.18173691	3.0867914	21	2 26.3	20.7
331870 2003 YR_{168}	17.5	X	320.25512	133.16062	305.54992	5.56747	0.1796874	0.27365732	2.3496220	21	12 19.8	19.3
331871 2003 YL_{182}	17.8	X	30.53126	277.08071	171.89035	5.66271	0.1434824	0.28688633	2.2768241	21	—	—
331872 2004 BU_{7}	15.0	X	205.30278	17.07580	308.78736	13.47340	0.1566143	0.17991794	3.1075615	21	2 12.6	20.2
331873 2004 BP_{140}	15.4	X	144.58488	233.38297	126.14534	18.48970	0.1406963	0.17435193	3.1733518	21	1 30.2	20.2
331874 2004 BA_{141}	18.4	X	253.21198	9.25992	122.05906	3.31049	0.1429721	0.26658829	2.3909766	21	11 4.4	21.2
331875 2004 BZ_{144}	17.2	X	238.23312	56.84040	127.89458	8.49397	0.0460183	0.27179386	2.3603494	21	—	—
331876 2004 CL	20.5	X	31.09667	274.63397	109.41985	13.30571	0.5361451	0.67686501	1.2846989	21	—	—
331877 2004 CV_{5}	17.3	X	55.71384	80.72259	21.89617	6.26406	0.0326768	0.28640851	2.2793557	21	1 9.3	19.9
331878 2004 CD_{15}	16.8	X	294.88334	339.44655	133.05090	6.94283	0.0720713	0.26850093	2.3796085	21	12 22.3	19.4
331879 2004 CY_{62}	15.3	X	130.97205	254.57924	122.06860	14.98861	0.0436737	0.17276897	3.1927057	21	1 24.7	19.9
331880 2004 CK_{70}	17.4	X	88.74453	333.35271	124.56762	6.26645	0.0741380	0.29154899	2.2524839	21	2 25.8	19.7
331881 2004 CB_{87}	17.4	X	126.55642	339.21272	60.68944	2.99834	0.2340839	0.23571480	2.5954429	21	3 4.2	21.2
331882 2004 CR_{120}	15.0	X	97.19613	171.91721	158.29570	15.37698	0.1258942	0.15565474	3.4226395	21	—	—
331883 2004 DQ_{35}	16.3	X	0.58485	259.03020	293.31530	6.10132	0.0334815	0.23271281	2.6177159	21	2 28.1	19.7
331884 2004 ED_{3}	16.1	X	299.40972	142.21208	28.93042	14.21498	0.1360373	0.21893043	2.7264569	21	—	—
331885 2004 ET_{6}	17.5	X	193.71965	60.88155	191.03990	4.97763	0.1031700	0.26874453	2.3781703	21	—	—
331886 2004 EF_{23}	17.0	X	178.87924	52.36656	168.78964	9.43195	0.1739708	0.26121120	2.4236776	21	12 2.4	20.9
331887 2004 EL_{67}	17.5	X	194.79721	10.55455	177.43877	1.29601	0.1356471	0.26067474	2.4270017	21	11 8.2	21.1
331888 2004 EN_{95}	17.2	X	206.99215	313.79149	254.06966	3.40431	0.1816036	0.26224718	2.4172904	21	12 11.1	20.8
331889 2004 FN_{141}	16.4	X	55.44416	193.70631	12.18331	12.08217	0.1199857	0.23790453	2.5794923	21	6 20.9	19.7
331890 2004 GO_{2}	16.2	X	116.78760	42.16882	66.03033	25.89439	0.2400647	0.23845177	2.5755443	21	5 20.6	20.1
331891 2004 GT_{27}	16.8	X	138.32894	109.03124	155.90570	12.92704	0.2199162	0.25575751	2.4580108	21	12 18.3	21.2
331892 2004 JL_{12}	16.5	X	60.93312	110.67106	124.16795	12.36123	0.2250424	0.23997624	2.5646251	21	8 30.8	19.8
331893 2004 JW_{49}	17.0	X	142.48623	43.64204	242.27433	7.83161	0.0272928	0.26095493	2.4252642	21	—	—
331894 2004 LZ	16.6	X	345.78437	109.65811	182.86250	12.81475	0.2716000	0.23248596	2.6194185	21	6 8.1	18.9
331895 2004 NW	16.6	X	351.33346	191.26441	132.23460	6.36072	0.2041306	0.23379771	2.6096117	21	8 20.5	18.7
331896 2004 NM_{24}	16.3	X	346.52969	278.41649	50.63123	13.37834	0.1914684	0.23212089	2.6221642	21	8 25.4	19.0
331897 2004 PD_{38}	16.3	X	324.17032	209.82118	152.53445	13.46080	0.1984352	0.23031163	2.6358790	21	8 15.8	18.7
331898 2004 PP_{42}	16.9	X	326.41730	206.83957	161.04629	6.61425	0.3520812	0.23145319	2.6272048	21	8 5.5	18.5
331899 2004 PP_{51}	16.6	X	357.37747	187.32632	131.86637	13.41635	0.1941744	0.23188383	2.6239511	21	8 29.5	18.9
331900 2004 PS_{58}	17.1	X	57.72486	138.48598	166.90949	5.18636	0.1563852	0.24039791	2.5616253	21	11 16.7	20.6
331901 2004 PF_{60}	16.6	X	282.03176	233.72524	137.70496	11.36614	0.2148885	0.22499306	2.6772564	21	6 16.9	20.4
331902 2004 PV_{86}	16.7	X	43.70076	240.18779	79.33331	3.48684	0.1779417	0.23866456	2.5740132	21	11 19.2	20.0
331903 2004 PA_{114}	16.0	X	2.09142	179.68315	153.08706	14.02023	0.1795766	0.23119453	2.6291640	21	9 30.5	18.6
331904 2004 RZ_{1}	17.5	X	93.17005	58.60466	234.87651	19.66630	0.0492555	0.35907789	1.9603951	21	12 19.9	19.9
331905 2004 RT_{7}	16.6	X	325.72052	255.74344	100.67306	14.21686	0.3097910	0.22840561	2.6505227	21	7 24.8	18.8
331906 2004 RR_{10}	16.7	X	324.68570	306.17009	40.69545	3.72186	0.1577347	0.22939182	2.6429205	21	7 31.2	19.4
331907 2004 RH_{18}	16.9	X	8.50312	223.77607	111.09726	7.29843	0.3314943	0.23478581	2.6022848	21	11 11.2	19.2
331908 2004 RG_{33}	16.5	X	56.13194	195.84219	102.60564	3.98095	0.1527918	0.23800955	2.5787335	21	11 4.9	19.9
331909 2004 RT_{53}	16.6	X	27.29418	169.25487	128.71288	4.03889	0.2295479	0.23311133	2.6147317	21	10 5.2	19.3
331910 2004 RL_{58}	16.2	X	327.07286	312.67984	21.02692	6.57983	0.1801623	0.22668962	2.6638818	21	7 12.9	19.0
331911 2004 RS_{68}	16.0	X	288.43738	330.33437	8.83781	11.62023	0.1666594	0.22073820	2.7115507	21	5 15.5	20.0
331912 2004 RY_{123}	16.0	X	65.28638	12.60174	277.38556	13.56508	0.1179002	0.23715590	2.5849179	21	10 24.8	19.8
331913 2004 RO_{159}	16.0	X	272.57773	86.82846	274.88821	8.14463	0.1684998	0.22063462	2.7123992	21	5 28.6	19.8
331914 2004 RH_{167}	16.6	X	12.23730	273.74198	33.14196	7.91015	0.2297925	0.23202759	2.6228672	21	9 19.5	18.9
331915 2004 RW_{168}	16.3	X	263.75043	154.15025	219.61813	5.81965	0.0637962	0.22302728	2.6929651	21	6 17.9	20.0
331916 2004 RA_{170}	16.2	X	291.97892	91.40055	239.94169	7.87472	0.1223407	0.22055757	2.7130308	21	5 20.3	19.7
331917 2004 RU_{183}	16.3	X	353.50788	142.38000	181.13604	32.36562	0.2484118	0.23023487	2.6364649	21	8 23.0	18.9
331918 2004 RV_{192}	16.4	X	347.18260	129.33997	212.64047	12.92197	0.2839628	0.23029960	2.6359708	21	9 3.3	18.3
331919 2004 RU_{194}	17.0	X	11.57223	138.58654	196.26844	10.83542	0.2949378	0.23408086	2.6075068	21	11 9.1	19.4
331920 2004 RH_{199}	15.7	X	349.72310	112.06249	245.76419	11.40762	0.1851049	0.22982376	2.6396080	21	10 3.2	18.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
331921 2004 RQ_{201}	15.9	X	184.92327	211.52694	203.87052	7.43686	0.2520763	0.21090457	2.7951946	21	5 13.1	20.9
331922 2004 RA_{214}	16.8	X	11.00301	84.86475	264.22299	12.06512	0.2045929	0.23415037	2.6069907	21	11 9.6	19.7
331923 2004 RD_{240}	16.6	X	284.52466	135.90537	223.88626	1.36576	0.0963106	0.22312254	2.6921986	21	6 21.8	20.1
331924 2004 RC_{272}	17.4	X	14.47035	141.26155	158.85619	3.15994	0.1824080	0.23102780	2.6304288	21	9 3.5	19.7
331925 2004 RP_{309}	16.8	X	30.99438	111.79388	239.30688	6.23155	0.2207530	0.23825004	2.5769979	21	12 19.3	20.1
331926 2004 RQ_{327}	16.0	X	249.09297	146.32104	237.77218	10.16353	0.0685097	0.22068966	2.7119482	21	6 12.4	19.9
331927 2004 RU_{327}	16.1	X	0.45665	84.16718	266.86346	15.58662	0.1409214	0.23209713	2.6223432	21	10 9.5	19.3
331928 2004 SH_{17}	17.1	X	345.71679	186.76343	150.12571	15.16454	0.2555191	0.23031302	2.6358684	21	8 26.7	18.7
331929 2004 SE_{25}	16.9	X	18.06528	153.91471	171.25133	13.40665	0.2337450	0.23366558	2.6105953	21	10 29.6	19.7
331930 2004 SN_{41}	16.2	X	306.70718	292.69907	38.13819	5.93776	0.1826002	0.22096936	2.7096592	21	5 30.4	19.5
331931 2004 SW_{41}	16.5	X	247.13947	175.73916	213.58640	9.37373	0.1830722	0.22072680	2.7116440	21	6 4.6	20.8
331932 2004 SW_{51}	16.4	X	328.25148	184.89332	177.23952	8.67304	0.3380361	0.22764306	2.6564385	21	8 2.3	18.4
331933 2004 TV_{14}	17.4	X	39.51650	205.89712	229.43046	19.98120	0.0883607	0.36526337	1.9382002	21	—	—
331934 2004 TN_{25}	16.2	X	22.25763	67.20704	197.59604	12.46848	0.1399088	0.22403140	2.6849124	21	7 18.9	19.4
331935 2004 TJ_{34}	17.1	X	43.88681	288.59336	339.47666	1.43689	0.0392592	0.22448825	2.6812685	21	8 18.9	20.5
331936 2004 TY_{37}	16.7	X	352.37968	75.80442	201.72223	13.21947	0.1833898	0.22039826	2.7143381	21	6 9.2	19.5
331937 2004 TD_{42}	16.3	X	185.93495	172.57523	230.51314	7.41784	0.1160736	0.20901535	2.8120126	21	4 25.9	20.8
331938 2004 TW_{52}	16.6	X	11.80466	114.96377	213.90614	12.07053	0.2950864	0.23142282	2.6274347	21	10 29.6	18.9
331939 2004 TS_{66}	15.8	X	26.91412	28.28180	39.65625	19.93456	0.3027666	0.18547808	3.0451427	21	—	—
331940 2004 TK_{119}	17.1	X	338.89987	207.83510	129.61559	7.76627	0.2729946	0.22893820	2.6464105	21	8 4.8	18.6
331941 2004 TB_{123}	17.2	X	321.77892	235.66528	108.94612	2.58459	0.2308172	0.22608563	2.6686241	21	7 9.4	19.7
331942 2004 TM_{164}	16.3	X	242.89542	303.44723	54.79106	5.91008	0.1675323	0.21254722	2.7807744	21	4 24.8	20.8
331943 2004 TP_{166}	17.0	X	112.23141	287.73658	197.82638	3.46784	0.0136927	0.21421767	2.7662994	21	5 8.0	20.6
331944 2004 TZ_{203}	16.7	X	290.67640	115.69230	229.02331	12.11815	0.2333795	0.21816003	2.7328718	21	5 19.9	20.4
331945 2004 TQ_{230}	16.9	X	248.22836	251.15068	59.04863	2.95035	0.0485127	0.20626347	2.8369684	21	3 13.0	21.0
331946 2004 TH_{243}	16.1	X	301.96130	138.91865	228.21405	13.04406	0.1797529	0.22603773	2.6690011	21	7 11.4	19.6
331947 2004 TS_{256}	16.3	X	322.60543	317.13719	355.96082	4.60669	0.1537367	0.22015217	2.7163605	21	6 5.3	19.4
331948 2004 TB_{274}	16.3	X	281.49227	271.73579	34.38151	9.34188	0.1272261	0.20951156	2.8075708	21	4 6.2	20.2
331949 2004 TN_{299}	15.5	X	322.97544	94.53337	267.71901	13.58718	0.1246661	0.22435777	2.6823080	21	8 14.8	18.8
331950 2004 TH_{328}	15.6	X	167.07269	179.33675	131.27271	11.14375	0.0399980	0.19327408	2.9626952	21	—	—
331951 2004 TB_{343}	15.7	X	344.10650	51.37214	220.27260	15.61904	0.1461707	0.21399480	2.7682198	21	5 18.2	18.7
331952 2004 TB_{356}	15.9	X	257.97859	230.11034	151.29792	15.78393	0.2978061	0.21768646	2.7368339	21	5 28.1	20.7
331953 2004 TM_{369}	16.0	X	58.49753	351.22647	242.84214	8.16723	0.0315378	0.21787837	2.7352265	21	7 20.3	19.7
331954 2004 UM_{3}	15.9	X	288.83565	332.55108	349.06187	9.17126	0.1389920	0.21667374	2.7453552	21	4 27.2	19.8
331955 2004 VB_{5}	16.1	X	324.14357	154.65610	236.49813	11.93034	0.1755307	0.22879430	2.6475200	21	9 27.2	18.9
331956 2004 VS_{10}	15.4	X	49.83150	87.90262	268.96957	14.58259	0.2554785	0.18056315	3.1001543	21	—	—
331957 2004 VZ_{36}	16.5	X	73.37762	52.55042	40.20890	2.25363	0.0867330	0.19577727	2.9373873	21	2 16.3	20.1
331958 2004 VD_{39}	17.6	X	34.02971	31.97255	225.77614	2.95477	0.0582665	0.27634637	2.3343548	21	7 23.7	20.2
331959 2004 VG_{75}	15.9	X	310.99605	224.12179	109.33211	13.92191	0.2171447	0.21958134	2.7210661	21	6 7.3	19.2
331960 2004 VV_{84}	15.9	X	272.82518	87.44584	246.40594	11.41113	0.1437447	0.21077254	2.7963618	21	4 25.2	20.2
331961 2004 XQ_{28}	15.3	X	86.59275	310.89614	122.86446	10.85936	0.0697617	0.18794637	3.0184229	21	2 9.9	19.3
331962 2004 XA_{34}	15.9	X	346.15017	47.65313	82.73009	10.65019	0.1694267	0.18279272	3.0748938	21	—	—
331963 2004 XK_{35}	17.6	X	84.70394	64.05263	263.86118	31.47470	0.4168683	0.36124815	1.9525356	21	—	—
331964 2004 XD_{37}	15.7	X	13.99543	65.22790	82.86131	9.89416	0.0372515	0.19087720	2.9874457	21	2 2.6	19.8
331965 2004 XK_{41}	16.2	X	3.64411	16.09746	98.53993	8.89797	0.1472703	0.18137292	3.0909199	21	—	—
331966 2004 XA_{57}	16.1	X	302.60804	190.98413	272.15716	13.14724	0.0402482	0.23002369	2.6380782	21	12 13.4	19.3
331967 2004 XM_{70}	16.2	X	182.55141	137.74510	254.91720	14.28301	0.1448333	0.20510600	2.8476316	21	4 6.6	21.0
331968 2004 XY_{82}	16.4	X	285.13655	259.00985	80.49272	13.07814	0.3067293	0.21476695	2.7615808	21	5 1.5	20.7
331969 2004 XS_{118}	16.1	X	311.16401	67.73528	281.86861	8.11769	0.1814399	0.21528468	2.7571515	21	7 4.7	19.4
331970 2004 YU_{7}	17.1	X	331.05297	230.59930	117.33494	2.86891	0.3556636	0.22648359	2.6654972	21	7 15.3	18.4
331971 2005 AR_{63}	15.7	X	268.21190	298.68230	264.34470	8.57184	0.0573928	0.17814742	3.1281173	21	—	—
331972 2005 AH_{66}	16.5	X	333.38771	359.22287	139.99511	4.16044	0.0738192	0.17778252	3.1323962	21	—	—
331973 2005 AG_{77}	15.9	X	9.08819	17.67312	85.76886	6.21324	0.1052580	0.17721484	3.1390820	21	—	—
331974 2005 CP_{28}	16.1	X	123.89337	255.83554	135.43708	16.45359	0.1695959	0.18521584	3.0480164	21	2 17.6	20.6
331975 2005 CT_{39}	15.5	X	61.15818	278.76994	144.68239	13.45089	0.0981766	0.17718304	3.1394575	21	—	—
331976 2005 CU_{64}	17.7	X	291.24903	159.63204	353.82651	4.16029	0.0956536	0.29072066	2.2567604	21	—	—
331977 2005 CO_{78}	15.4	X	328.96519	255.72920	292.23771	13.23778	0.1159423	0.18115555	3.0933920	21	1 13.4	19.6
331978 2005 CZ_{80}	15.7	X	273.54049	17.12258	165.21929	19.19813	0.0996192	0.17067624	3.2187506	21	—	—
331979 2005 CB_{81}	15.5	X	15.75117	345.52408	112.47873	15.58554	0.1501431	0.17623466	3.1507105	21	—	—
331980 2005 EK_{9}	15.4	X	79.40339	187.45889	299.25552	8.80269	0.0560148	0.18898958	3.0073050	21	3 30.7	19.6
331981 2005 EG_{19}	17.5	X	260.60637	237.73873	355.56557	6.50736	0.0958537	0.29351472	2.2424157	21	—	—
331982 2005 EJ_{38}	15.1	X	301.70792	278.59045	274.98628	27.05062	0.2169760	0.17466308	3.1695818	21	—	—
331983 2005 EA_{42}	16.0	X	46.68290	186.69581	311.49676	2.55437	0.0254068	0.18852938	3.0121969	21	3 2.7	20.1
331984 2005 EM_{76}	17.5	X	260.49163	139.34061	175.21954	6.99539	0.2590007	0.30532852	2.1841936	21	2 28.8	21.0
331985 2005 EH_{152}	17.5	X	81.77025	294.16659	163.00854	6.21427	0.0885187	0.30262228	2.1971959	21	2 10.1	19.6
331986 2005 EA_{210}	15.6	X	223.33738	110.81672	177.55420	25.36483	0.2162544	0.17253481	3.1955938	21	1 16.1	21.4
331987 2005 EF_{244}	18.1	X	209.96675	60.67582	246.64569	0.96311	0.0739417	0.29825518	2.2185917	21	1 7.4	20.8
331988 2005 EC_{262}	16.0	X	220.32939	77.22425	304.57846	8.11236	0.1180965	0.19927285	2.9029349	21	5 1.7	20.7
331989 2005 EC_{292}	17.1	X	331.39292	13.90184	134.80335	6.30826	0.1657120	0.29280855	2.2460196	21	—	—
331990 2005 FD	19.6	X	20.47606	270.97657	13.34951	11.32939	0.3940636	0.55829518	1.4606970	21	11 21.1	20.9
331991 2005 FD_{3}	16.2	X	241.30374	120.53937	111.34273	39.59946	0.2846477	0.28449644	2.2895572	21	—	—
331992 Chasseral	17.6	X	261.02682	202.28995	18.88491	6.47432	0.1127377	0.28974681	2.2618143	21	—	—
331993 2005 GY_{21}	16.7	X	267.59652	116.33400	129.69538	7.46950	0.0564041	0.29443236	2.2377540	21	—	—
331994 2005 GB_{50}	17.0	X	116.50757	149.69132	132.50144	0.80589	0.0370863	0.21459325	2.7630708	21	12 6.2	20.9
331995 2005 GU_{144}	17.0	X	275.21750	309.00421	299.71054	6.69721	0.1622365	0.29435240	2.2381593	21	—	—
331996 2005 GJ_{173}	16.4	X	277.65831	173.89414	43.18012	13.36755	0.1956171	0.23016511	2.6369975	21	—	—
331997 2005 GZ_{174}	18.2	X	257.39289	101.00623	129.57401	2.63248	0.1086421	0.28924925	2.2644074	21	—	—
331998 2005 GA_{217}	16.0	X	184.96408	155.73784	190.81527	10.52388	0.1055436	0.17678999	3.1441091	21	2 17.5	21.0
331999 2005 HA_{8}	19.2	X	348.46029	173.40709	102.14318	13.39265	0.2860527	0.42926069	1.7404250	21	4 14.8	20.1
332000 2005 JK_{69}	15.6	X	214.01943	101.17570	146.08384	16.24011	0.0837933	0.15875275	3.3779656	21	—	—