Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
316001 2009 EN_{4}	17.3	X	192.15439	108.05426	113.86220	4.13371	0.1136169	0.29105623	2.2550255	21	12 25.7	20.2
316002 2009 EK_{13}	17.5	X	264.91844	284.80206	327.65299	3.48919	0.1477712	0.31491140	2.1396552	21	—	—
316003 2009 ED_{16}	18.2	X	275.73470	109.72427	57.81432	1.61304	0.0479265	0.30140511	2.2031073	21	—	—
316004 2009 EV_{17}	18.0	X	196.45469	298.30167	333.00866	4.74505	0.1014123	0.30423424	2.1894279	21	—	—
316005 2009 EC_{21}	17.2	X	314.04742	28.05808	105.84574	5.43797	0.1044317	0.30352042	2.1928593	21	—	—
316006 2009 EN_{22}	17.5	X	276.86677	102.09050	45.79931	6.30616	0.0733036	0.29384650	2.2407275	21	—	—
316007 2009 EU_{25}	17.6	X	246.37210	68.08783	95.30383	3.44681	0.0998019	0.29064650	2.2571443	21	12 19.6	20.1
316008 2009 FQ_{1}	17.0	X	129.71373	24.77217	181.31335	6.48713	0.0943536	0.27415835	2.3467585	21	9 26.4	20.2
316009 2009 FE_{3}	17.9	X	268.15676	22.38543	128.01891	2.95932	0.0849668	0.29480536	2.2358661	21	—	—
316010 Daviddubey	17.8	X	218.09317	171.59901	78.37872	6.33278	0.2348518	0.29748272	2.2224306	21	—	—
316011 2009 FC_{16}	17.3	X	98.53541	174.50965	126.99455	5.14897	0.1785603	0.28284376	2.2984672	21	12 31.2	21.0
316012 2009 FE_{17}	17.5	X	273.07503	70.70785	153.57411	18.18851	0.2232271	0.30872285	2.1681544	21	—	—
316013 2009 FQ_{17}	17.4	X	186.89199	199.18874	20.20640	6.70969	0.0767455	0.29010351	2.2599599	21	12 19.9	20.5
316014 2009 FJ_{19}	17.8	X	281.96263	61.41951	132.13901	4.94301	0.0671753	0.30607564	2.1806378	21	—	—
316015 2009 FC_{21}	17.1	X	68.52067	119.96161	182.17296	4.36820	0.1453166	0.27891650	2.3199925	21	11 29.3	20.3
316016 2009 FO_{21}	17.9	X	192.00881	119.56368	92.99053	4.48374	0.0648829	0.28909291	2.2652236	21	12 18.6	20.8
316017 2009 FS_{22}	17.1	X	145.71137	137.45953	152.58929	4.11185	0.1346312	0.29017248	2.2596018	21	—	—
316018 2009 FC_{24}	17.7	X	196.41150	26.54158	187.51405	4.03256	0.1279511	0.28966290	2.2622511	21	12 18.5	20.8
316019 2009 FY_{24}	17.3	X	194.38725	54.06029	83.12665	5.30001	0.0877396	0.27698752	2.3307512	21	9 10.1	20.6
316020 Linshuhow	17.9	X	140.09892	253.80276	16.75380	1.46411	0.1866394	0.28664223	2.2781165	21	12 30.3	21.6
316021 2009 FP_{30}	17.1	X	195.78224	149.01547	354.93344	9.07139	0.1394878	0.27729285	2.3290399	21	9 14.7	20.3
316022 2009 FF_{36}	18.2	X	9.82429	345.23520	133.22591	3.83259	0.0544787	0.30985152	2.1628860	21	—	—
316023 2009 FL_{37}	17.5	X	296.88617	24.71619	82.76071	3.55577	0.0865876	0.29136814	2.2534158	21	12 23.9	19.4
316024 2009 FA_{39}	17.3	X	109.90882	123.11527	77.94496	5.64619	0.1330933	0.26900046	2.3766617	21	9 3.1	20.7
316025 2009 FU_{41}	17.9	X	5.97185	17.75372	63.21897	4.94721	0.1257632	0.30116438	2.2042811	21	—	—
316026 2009 FS_{42}	17.6	X	142.14050	105.99959	140.99405	6.08768	0.0796223	0.28344446	2.2952186	21	12 4.7	20.8
316027 2009 FE_{45}	17.4	X	226.30132	2.64687	216.77244	3.28578	0.2107794	0.29389919	2.2404596	21	—	—
316028 Patrickwils	17.5	X	162.74189	155.81264	117.85045	6.75484	0.1020997	0.29487053	2.2355367	21	—	—
316029 2009 FC_{46}	17.3	X	108.10925	111.63677	123.34598	1.94777	0.1440616	0.27006406	2.3704175	21	10 14.9	20.6
316030 2009 FF_{47}	17.1	X	24.28918	171.97873	121.81434	2.94704	0.0893002	0.26541301	2.3980298	21	9 5.3	19.5
316031 2009 FN_{48}	17.1	X	76.18957	183.96939	83.41741	5.39762	0.2143267	0.26942729	2.3741510	21	10 31.6	20.6
316032 2009 FX_{53}	17.2	X	258.63528	320.43907	67.80144	6.85499	0.1829939	0.26355556	2.4092836	21	6 13.7	20.7
316033 2009 FW_{63}	17.5	X	290.72047	43.74082	43.58070	6.95694	0.1616348	0.28462388	2.2888737	21	11 2.4	19.2
316034 2009 FL_{67}	17.8	X	216.09849	294.35771	272.06536	1.82059	0.0446145	0.29412079	2.2393341	21	—	—
316035 2009 FK_{68}	18.0	X	231.55181	9.99752	176.75215	3.13225	0.0790851	0.29245304	2.2478394	21	—	—
316036 2009 FC_{69}	17.9	X	119.35036	111.66818	135.88908	1.35477	0.1859096	0.27513669	2.3411921	21	11 13.1	21.5
316037 2009 FK_{71}	17.1	X	157.63169	127.07841	131.59143	6.14577	0.0744806	0.28494170	2.2871714	21	—	—
316038 2009 FH_{76}	18.0	X	154.73128	250.29985	306.58258	0.69535	0.1271604	0.27382153	2.3486825	21	10 11.3	21.6
316039 2009 GB_{3}	17.6	X	310.72690	88.14485	56.69556	6.64327	0.0965001	0.30142763	2.2029975	21	—	—
316040 2009 HX	17.7	X	170.27619	14.92113	188.44249	2.00908	0.1530046	0.27966739	2.3158380	21	11 4.6	21.1
316041 2009 HH_{1}	17.6	X	257.26761	77.76389	40.44351	4.80013	0.1059632	0.28456167	2.2892073	21	10 30.8	20.2
316042 Tilofranz	17.7	X	144.10988	88.21268	97.76742	5.80886	0.1641368	0.27195396	2.3594229	21	9 20.7	21.4
316043 2009 HY_{2}	17.6	X	204.95366	127.98474	25.42939	2.48690	0.1389449	0.27958855	2.3162733	21	10 7.1	20.8
316044 2009 HQ_{7}	17.6	X	252.19166	335.42718	144.50372	5.53562	0.1051918	0.28065915	2.3103791	21	10 27.6	20.3
316045 2009 HA_{8}	17.8	X	208.25948	81.78197	103.82038	4.62978	0.1360785	0.28438392	2.2901611	21	11 23.8	20.8
316046 2009 HC_{16}	17.4	X	315.63897	341.71512	79.81881	6.21352	0.1326823	0.28521218	2.2857251	21	11 17.1	19.2
316047 2009 HN_{25}	17.2	X	217.70531	130.95607	70.89439	6.82328	0.1104822	0.28828954	2.2694300	21	12 30.3	20.1
316048 2009 HO_{41}	17.9	X	265.53612	333.64549	162.62158	4.44567	0.1595128	0.28872228	2.2671618	21	12 2.0	20.1
316049 2009 HT_{41}	17.4	X	165.68230	149.95943	115.44351	3.92268	0.0980854	0.28931149	2.2640826	21	—	—
316050 2009 HQ_{45}	17.9	X	181.91173	38.54933	177.74960	6.83321	0.1579341	0.28427769	2.2907316	21	12 3.1	21.3
316051 2009 HV_{45}	17.8	X	118.61469	73.54320	155.17121	0.47194	0.1562133	0.27177667	2.3604489	21	10 17.7	21.3
316052 2009 HP_{52}	17.6	X	144.09160	14.01912	241.54239	1.87993	0.1502550	0.28084211	2.3093755	21	12 15.1	21.0
316053 2009 HK_{53}	15.5	X	301.16272	0.13672	219.43049	35.46616	0.2061378	0.22777611	2.6554040	21	—	—
316054 2009 HH_{54}	17.1	X	73.14447	118.12822	108.52264	7.20316	0.1089477	0.25910627	2.4367862	21	8 17.9	20.1
316055 2009 HB_{57}	17.7	X	249.33112	104.94921	54.15953	6.38852	0.0941371	0.28820921	2.2698517	21	12 17.9	20.2
316056 2009 HS_{57}	16.9	X	59.66267	134.35320	149.16412	7.12112	0.1202727	0.26917805	2.3756162	21	10 21.7	20.0
316057 2009 HS_{60}	17.5	X	46.11669	256.95248	28.80836	2.04839	0.1670065	0.26685669	2.3893732	21	10 10.6	20.3
316058 2009 HA_{61}	17.8	X	277.79283	244.25660	268.63812	2.74672	0.1008851	0.29431798	2.2383338	21	—	—
316059 2009 HC_{64}	17.8	X	40.37194	208.71833	65.24068	2.52674	0.1592361	0.26004055	2.4309461	21	9 13.8	20.4
316060 2009 HP_{65}	16.6	X	134.83713	263.09105	101.70802	7.27469	0.1558828	0.21984679	2.7188753	21	1 20.7	20.5
316061 2009 HL_{75}	17.7	X	137.66894	141.77407	99.32851	3.79615	0.1573483	0.27822632	2.3238276	21	11 21.5	21.4
316062 2009 HQ_{77}	17.8	X	138.23756	322.44721	262.66692	1.65306	0.1622421	0.27510075	2.3413960	21	10 31.6	21.5
316063 2009 HT_{77}	17.5	X	226.61742	93.75287	114.75726	3.93371	0.1655630	0.29211289	2.2495841	21	—	—
316064 2009 HB_{80}	16.3	X	284.98335	164.06046	137.03624	10.63924	0.1953292	0.23689115	2.5868435	21	3 24.4	20.2
316065 2009 HR_{80}	17.2	X	150.81455	157.46256	110.51272	7.14974	0.0966184	0.28716555	2.2753480	21	—	—
316066 2009 HA_{83}	17.4	X	85.70490	316.74132	291.97806	4.02473	0.1756195	0.26647507	2.3916539	21	10 8.7	20.9
316067 2009 HC_{83}	18.2	X	234.39383	170.12507	60.97699	3.47107	0.1253335	0.30042491	2.2078967	21	—	—
316068 2009 HO_{94}	17.3	X	230.77183	275.06901	232.26347	6.23694	0.2338830	0.28107186	2.3081169	21	10 14.8	20.5
316069 2009 HG_{98}	17.9	X	171.02169	47.09690	162.08466	7.33028	0.1315950	0.27781707	2.3261092	21	11 15.1	21.4
316070 2009 HR_{98}	17.7	X	145.02744	138.70473	71.82550	2.32467	0.1309173	0.27389260	2.3482762	21	10 20.4	21.2
316071 2009 HZ_{98}	17.2	X	252.71459	258.10932	128.56463	6.82932	0.1264330	0.25689340	2.4507598	21	6 12.8	20.7
316072 2009 HW_{99}	17.9	X	159.32259	158.93203	61.72935	3.75873	0.1036287	0.27905930	2.3192010	21	11 17.2	21.2
316073 2009 HX_{101}	16.2	X	173.18399	255.35600	104.43230	15.42605	0.1256120	0.22648516	2.6654848	21	2 22.6	20.5
316074 2009 HX_{106}	17.2	X	108.59773	327.45181	284.28390	3.89739	0.1987359	0.27299471	2.3534225	21	11 7.5	21.0
316075 2009 JD_{7}	16.7	X	38.58030	114.39546	127.03424	6.94416	0.0946116	0.25451185	2.4660244	21	7 11.6	19.4
316076 2009 JC_{11}	17.0	X	298.03512	275.83891	150.17599	10.23291	0.1079141	0.27362524	2.3498056	21	10 23.2	19.5
316077 2009 JO_{12}	16.3	X	262.69675	240.26867	58.90402	13.09186	0.1544074	0.23453714	2.6041238	21	3 7.4	20.5
316078 2009 JZ_{13}	17.1	X	221.92131	317.89329	65.32904	5.74925	0.1024901	0.24232909	2.5479976	21	5 7.3	20.7
316079 2009 JV_{16}	17.4	X	155.70799	116.49616	106.29836	3.09886	0.1634479	0.27677805	2.3319270	21	11 15.1	21.0
316080 2009 KD	16.9	X	178.59579	97.78837	106.50450	7.11073	0.0538989	0.28049545	2.3112779	21	11 22.4	19.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
316081 2009 KY	17.7	X	181.44909	38.62369	159.42438	6.12239	0.1388537	0.27996920	2.3141733	21	11 11.2	21.2
316082 2009 KB_{3}	16.0	X	261.42922	181.17111	93.65848	15.42152	0.1942454	0.22534092	2.6745004	21	1 28.6	20.4
316083 2009 KZ_{3}	17.2	X	154.67632	127.55891	88.60057	3.29859	0.1581607	0.27585106	2.3371484	21	11 6.0	20.8
316084 Mykolapokropyvny	16.4	X	269.69834	192.89260	92.41202	15.66098	0.2354464	0.22990532	2.6389837	21	2 15.9	20.9
316085 2009 KT_{9}	13.2	X	296.79980	234.03624	88.53855	10.06810	0.1549077	0.08231787	5.2336735	21	5 20.9	19.9
316086 2009 KU_{9}	16.6	X	286.99816	189.27261	102.05485	5.64780	0.0692254	0.23797878	2.5789557	21	3 30.8	20.1
316087 2009 KB_{13}	17.6	X	136.45721	113.76065	113.65746	2.12309	0.1453020	0.27320200	2.3522319	21	11 2.6	21.1
316088 2009 KH_{13}	17.2	X	26.61903	172.73929	151.68705	6.85373	0.1349764	0.26708166	2.3880313	21	11 1.8	19.9
316089 2009 KH_{15}	17.3	X	152.11861	136.41222	107.03470	3.93559	0.1921906	0.27826224	2.3236276	21	12 6.4	21.0
316090 2009 KW_{28}	16.6	X	323.48998	340.33719	294.75941	2.90017	0.2158233	0.24145310	2.5541567	21	3 31.0	19.6
316091 2009 KC_{29}	17.3	X	94.45501	105.69883	107.35435	2.20966	0.1174642	0.25937367	2.4351112	21	8 27.4	20.5
316092 2009 KT_{30}	18.1	X	108.60389	154.58900	93.91617	4.04859	0.1959521	0.27116412	2.3640023	21	11 5.7	21.8
316093 2009 LB_{1}	17.2	X	106.52642	87.29329	124.56621	7.22339	0.0891481	0.26295970	2.4129218	21	9 7.8	20.5
316094 2009 LA_{7}	15.8	X	276.50020	176.25785	119.00259	16.85224	0.0723507	0.22593972	2.6697729	21	3 27.9	19.9
316095 2009 MX_{4}	16.6	X	350.30724	133.05361	121.82307	15.21161	0.1771377	0.23742798	2.5829428	21	5 6.4	19.5
316096 2009 NQ_{1}	15.8	X	41.04036	194.78660	119.00032	11.99768	0.2152148	0.17604566	3.1529652	21	11 7.6	20.1
316097 2009 OW	15.6	X	43.89959	343.88242	335.00922	4.77546	0.1725419	0.17415539	3.1757388	21	11 4.5	19.8
316098 2009 OO_{1}	15.5	X	46.98356	10.08717	280.22259	10.96183	0.0413760	0.17152294	3.2081494	21	9 11.2	20.2
316099 2009 OU_{3}	15.3	X	81.16625	341.27306	318.96290	15.83253	0.2264345	0.18203600	3.0834094	21	12 1.4	20.5
316100 2009 OG_{5}	14.7	X	93.21207	333.66312	292.07540	21.54723	0.1612599	0.17349720	3.1837654	21	10 18.6	20.0
316101 2009 OP_{13}	16.5	X	49.86868	200.88027	144.26456	3.34077	0.0880162	0.18110601	3.0939561	21	12 5.5	20.7
316102 2009 OE_{14}	15.5	X	351.69159	253.88803	134.58769	11.95033	0.0648210	0.17704081	3.1411388	21	11 11.0	19.8
316103 2009 OQ_{17}	15.9	X	90.56037	22.82252	275.25586	3.88987	0.1421578	0.18187742	3.0852015	21	12 1.0	20.7
316104 2009 OP_{18}	16.1	X	335.51427	240.04491	316.57338	8.21230	0.1005321	0.21456557	2.7633084	21	1 28.3	19.5
316105 2009 OV_{24}	15.1	X	16.90569	81.12134	276.53398	9.19073	0.0823371	0.17351452	3.1835536	21	11 1.9	19.5
316106 2009 PM	17.6	X	223.92358	315.71319	293.33946	1.76218	0.2094626	0.28804605	2.2707087	21	—	—
316107 2009 PM_{3}	15.7	X	114.93334	359.07513	284.49717	8.74429	0.0919054	0.18394407	3.0620494	21	12 4.2	20.4
316108 2009 PO_{4}	16.3	X	235.11803	342.34388	286.44553	7.14036	0.1866943	0.20952530	2.8074481	21	—	—
316109 2009 PL_{5}	15.7	X	35.06040	188.34294	166.50036	13.41533	0.1614750	0.17654532	3.1470133	21	12 8.9	20.1
316110 2009 PF_{9}	16.0	X	111.42270	270.14473	23.61652	1.34796	0.1695302	0.18202002	3.0835898	21	12 17.6	21.0
316111 2009 PY_{10}	14.9	X	12.31216	211.64232	138.90260	22.46334	0.1327837	0.17233156	3.1981059	21	11 1.9	19.3
316112 2009 PA_{15}	16.5	X	324.16872	297.74759	320.68257	12.05997	0.1940696	0.22849895	2.6498009	21	3 11.8	19.9
316113 2009 PV_{16}	16.0	X	111.85786	112.42491	177.88962	11.23102	0.1246788	0.18453602	3.0554976	21	12 12.5	20.9
316114 2009 QY_{5}	15.0	X	96.67153	307.92333	345.53441	16.46054	0.2298756	0.17889162	3.1194357	21	12 6.4	20.4
316115 2009 QL_{13}	16.2	X	51.38206	237.55810	218.03830	3.96356	0.0990419	0.19951810	2.9005555	21	1 16.5	19.7
316116 2009 QN_{13}	15.8	X	163.00867	202.16650	180.74700	14.28804	0.0935711	0.21019318	2.8014979	21	3 6.9	20.1
316117 2009 QT_{21}	16.0	X	178.16535	170.96759	151.29405	15.86252	0.1377364	0.20445017	2.8537181	21	1 13.1	20.7
316118 2009 QY_{22}	15.5	X	101.29257	290.10935	356.00249	11.94658	0.2033876	0.17980314	3.1088841	21	11 29.7	20.8
316119 2009 QL_{26}	13.4	X	336.06471	232.64035	187.17891	31.28793	0.1275201	0.08380055	5.1717575	21	11 6.3	19.9
316120 2009 QM_{26}	16.9	X	243.61766	287.07237	347.80401	2.99985	0.1469076	0.21045052	2.7992136	21	1 16.8	21.3
316121 2009 QN_{27}	15.8	X	353.89087	229.52739	148.60420	9.71299	0.0844618	0.17428230	3.1741969	21	10 31.7	20.0
316122 2009 QP_{31}	16.0	X	80.53381	231.52912	104.43820	2.48347	0.1758359	0.18373865	3.0643312	21	—	—
316123 2009 QT_{35}	15.3	X	18.75412	19.65188	344.10203	10.11883	0.0503534	0.17512872	3.1639611	21	11 7.8	19.8
316124 2009 QH_{47}	15.3	X	107.52777	178.96027	134.07400	11.66486	0.0920538	0.18396821	3.0617815	21	12 31.6	20.1
316125 2009 QB_{54}	15.8	X	141.32035	297.81348	343.64678	8.61832	0.2535070	0.18779724	3.0200206	21	12 30.9	21.3
316126 2009 RG_{30}	15.8	X	268.02662	311.00780	325.16300	24.61988	0.1061583	0.21400633	2.7681204	21	2 13.3	20.0
316127 2009 RY_{34}	14.2	X	314.36762	252.17390	180.80175	1.23827	0.0584387	0.08195747	5.2490054	21	10 26.1	20.8
316128 2009 RB_{57}	13.8	X	317.41314	330.02869	110.30244	4.04951	0.1215321	0.08249806	5.2260499	21	11 2.9	20.2
316129 2009 RH_{64}	13.9	X	288.27050	84.38053	10.10459	4.46107	0.0984608	0.08114749	5.2838763	21	10 13.3	20.6
316130 2009 RA_{74}	13.4	X	336.79846	14.97531	48.64013	8.15784	0.0933531	0.08416583	5.1567829	21	11 11.2	19.9
316131 2009 SW_{15}	15.5	X	93.24042	352.05680	329.83991	6.78414	0.0854010	0.18006827	3.1058317	21	12 26.4	20.2
316132 2009 SO_{19}	13.9	X	324.23408	268.48825	163.06807	8.87811	0.1467188	0.08385437	5.1695440	21	11 1.7	20.2
316133 2009 SX_{33}	13.6	X	304.48793	105.10184	339.87550	5.19836	0.1557660	0.08133590	5.2757134	21	10 14.7	20.1
316134 2009 SV_{43}	13.8	X	345.83157	158.38522	255.27678	5.53570	0.0468189	0.08507434	5.1200043	21	11 12.2	20.3
316135 2009 SX_{65}	14.2	X	353.59868	268.30882	118.13623	3.11263	0.0998077	0.08240722	5.2298900	21	10 24.5	20.6
316136 2009 SC_{99}	15.9	X	156.96782	321.55614	287.35933	7.95941	0.1135414	0.18202841	3.0834952	21	12 4.6	20.8
316137 2009 SM_{131}	14.0	X	295.15470	293.23991	160.95823	5.11275	0.1197594	0.08145440	5.2705953	21	10 20.5	20.7
316138 Giorgione	15.7	X	194.13460	208.85900	2.74326	7.86099	0.1118846	0.17896105	3.1186290	21	11 24.7	20.6
316139 2009 SH_{237}	15.2	X	146.93758	191.02698	82.09586	10.93224	0.0321070	0.18122094	3.0926478	21	12 22.9	19.6
316140 2009 SY_{239}	15.3	X	101.70250	186.75355	132.03986	18.39091	0.2423164	0.18376758	3.0640096	21	—	—
316141 2009 SM_{248}	13.6	X	308.39342	67.70492	14.67702	24.74716	0.0989753	0.08296347	5.2064867	21	10 20.7	20.3
316142 2009 SL_{280}	15.9	X	110.87031	216.70480	61.16315	6.62293	0.1453456	0.17375849	3.1805730	21	11 26.3	20.9
316143 2009 SL_{287}	15.1	X	341.67442	85.89909	6.14200	14.64163	0.0417937	0.17833189	3.1259597	21	—	—
316144 2009 SD_{304}	13.9	X	5.93724	152.56666	234.55147	5.60784	0.0847152	0.08416115	5.1569739	21	11 9.2	20.4
316145 2009 SC_{330}	14.5	X	215.90508	216.32544	99.32794	17.53865	0.2127362	0.12411024	3.9804391	21	2 21.0	21.2
316146 2009 SV_{347}	13.9	X	313.63797	207.93154	241.06594	1.56356	0.0823647	0.08515036	5.1169565	21	11 9.9	20.4
316147 2009 SM_{348}	13.1	X	5.26826	345.86339	45.69981	13.88908	0.0651215	0.08305629	5.2026072	21	11 11.9	19.8
316148 2009 SK_{352}	13.9	X	322.41266	325.50250	104.06392	2.31130	0.0347442	0.08016905	5.3267816	21	11 2.9	20.7
316149 2009 ST_{355}	13.5	X	326.24650	330.12801	76.72332	8.73018	0.0630546	0.07974799	5.3455149	21	10 14.6	20.3
316150 2009 SW_{355}	13.5	X	331.91838	321.49076	95.34659	8.08574	0.1455281	0.08257757	5.2226947	21	10 28.2	19.8
316151 2009 SJ_{356}	15.8	X	108.64247	346.47188	292.05912	3.82627	0.1130907	0.17017831	3.2250261	21	11 21.4	20.9
316152 2009 SV_{361}	13.4	X	21.03134	83.06838	265.29791	14.39783	0.1533881	0.08276293	5.2148941	21	10 17.9	19.8
316153 2009 TZ_{24}	13.4	X	329.83316	22.68371	45.85111	9.62161	0.0779055	0.08336697	5.1896734	21	11 8.1	19.9
316154 2009 TP_{39}	15.7	X	46.17345	225.10584	217.34306	10.00059	0.0754933	0.18856667	3.0117997	21	—	—
316155 2009 TW_{41}	13.2	X	349.08895	304.47633	104.08763	9.75305	0.0765070	0.08312607	5.1996952	21	11 13.7	19.8
316156 2009 UW_{4}	13.5	X	20.74715	354.34320	19.03480	10.55176	0.0900410	0.08411592	5.1588226	21	11 11.4	20.1
316157 2009 UT_{13}	13.9	X	322.12877	189.27680	251.13746	6.14656	0.0812354	0.08127535	5.2783333	21	11 10.2	20.6
316158 2009 UW_{26}	12.3	X	6.49296	170.19305	230.79986	27.68651	0.0870758	0.08243175	5.2288521	21	11 24.9	18.8
316159 2009 UH_{29}	14.0	X	301.90349	240.50777	223.18777	6.22880	0.0314900	0.08302159	5.2040567	21	11 16.8	20.8
316160 2009 UW_{51}	14.0	X	295.51904	228.13740	228.97766	4.47768	0.0888726	0.07993947	5.3369756	21	10 25.8	20.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
316161 2009 UT_{76}	13.6	X	337.66097	40.32600	16.54309	6.37428	0.1200086	0.08320466	5.1964206	21	11 2.6	19.8
316162 2009 UE_{108}	13.4	X	349.10131	1.02009	56.14482	8.91410	0.1021732	0.08231451	5.2338159	21	11 20.1	19.8
316163 2009 VE_{46}	14.0	X	48.04307	72.91090	281.77829	2.37087	0.0696790	0.08239547	5.2303869	21	11 23.7	20.7
316164 2009 VM_{71}	14.3	X	308.55822	25.41039	83.23008	6.92004	0.0826819	0.08104933	5.2881419	21	11 25.2	20.9
316165 2009 VP_{110}	13.2	X	283.99346	21.42340	104.72284	8.72627	0.0766503	0.08289394	5.2093977	21	11 17.6	20.0
316166 2009 WQ_{1}	14.1	X	319.24690	182.81247	238.84069	4.80702	0.0922437	0.08114010	5.2841975	21	10 15.3	20.7
316167 2009 WM_{29}	15.4	X	299.52166	319.48757	203.53876	10.09933	0.1805253	0.18226392	3.0808383	21	—	—
316168 2009 WA_{57}	14.0	X	59.12058	231.96267	106.36960	3.83586	0.0652885	0.08162759	5.2631376	21	11 19.1	20.9
316169 2009 WQ_{96}	14.1	X	283.82148	50.72009	67.42106	2.67922	0.0405942	0.07965780	5.3495492	21	11 10.6	21.1
316170 2009 WV_{149}	13.1	X	8.40606	314.54596	81.40549	15.60388	0.0568132	0.08228972	5.2348673	21	11 22.8	19.8
316171 2009 WV_{197}	15.4	X	97.39467	211.91209	109.41861	11.10022	0.1541401	0.17248399	3.1962214	21	—	—
316172 2009 WJ_{218}	15.3	X	103.06472	225.77970	75.86310	10.67663	0.1322434	0.18341402	3.0679459	21	12 16.6	20.0
316173 2009 WB_{240}	13.1	X	0.62365	314.08511	90.25229	15.41291	0.0873801	0.08058160	5.3085854	21	11 23.7	19.7
316174 2009 WM_{250}	13.4	X	10.78464	322.97405	72.64457	8.38308	0.0911774	0.08262339	5.2207638	21	11 25.5	19.8
316175 2010 BM_{33}	13.2	X	335.55545	264.40812	160.43135	11.82012	0.0726503	0.08379676	5.1719131	21	11 14.4	19.8
316176 2010 BB_{46}	13.5	X	333.72407	353.74480	61.88000	13.29575	0.0823058	0.08148733	5.2691756	21	11 1.2	20.1
316177 2010 BW_{70}	12.9	X	23.97412	238.46211	141.05446	11.83370	0.0128686	0.08435223	5.1491832	21	11 21.3	19.8
316178 2010 CX_{159}	17.0	X	144.62774	68.04087	193.80652	3.21616	0.0468244	0.22803023	2.6534308	21	12 15.8	20.8
316179 2010 EN_{65}	7.0	X	56.34111	224.58365	234.37474	19.23858	0.3105961	0.00585018	30.5039944	21	3 26.3	21.5
316180 2010 GN_{76}	17.1	X	155.59264	56.51390	286.81265	11.61613	0.2860731	0.22488864	2.6780851	21	1 25.1	21.7
316181 2010 GY_{126}	17.5	X	3.74135	331.86585	46.89169	26.44613	0.0476554	0.39202553	1.8489556	21	12 24.6	19.7
316182 2010 GP_{150}	17.8	X	355.95451	223.52769	101.43617	6.34310	0.2526576	0.27166604	2.3610897	21	9 18.6	19.1
316183 2010 HB_{39}	17.6	X	58.86478	357.93708	317.17504	1.77369	0.1868165	0.28594409	2.2818230	21	12 10.6	20.8
316184 2010 JS_{126}	17.1	X	110.72926	48.32930	326.05653	8.11850	0.1827183	0.21780082	2.7358758	21	1 8.8	20.7
316185 2010 JN_{129}	17.1	X	180.62296	42.50273	313.87476	5.40757	0.2284975	0.23099366	2.6306880	21	2 24.9	21.7
316186 Kathrynjoyce	16.8	X	184.05250	38.79268	316.93397	9.93609	0.2812938	0.23024768	2.6363671	21	2 27.5	21.5
316187 2010 KD_{47}	16.1	X	63.79490	55.48856	281.95291	10.37194	0.1281151	0.19844900	2.9109636	21	12 21.1	20.4
316188 2010 KH_{62}	15.8	X	196.03817	116.55236	221.82160	9.77387	0.2463452	0.24094501	2.5577461	21	2 12.6	20.5
316189 2010 KY_{74}	16.1	X	306.51992	99.33894	269.61293	7.92423	0.1013992	0.17479673	3.1679661	21	8 1.4	20.4
316190 2010 KE_{129}	17.0	X	147.51230	92.98539	178.07988	2.71076	0.2072554	0.21288591	2.7778243	21	12 25.9	21.7
316191 2010 LK_{12}	16.0	X	63.50089	253.37616	85.29968	13.14244	0.0667390	0.19705325	2.9246931	21	12 13.9	20.0
316192 2010 LO_{53}	17.1	X	356.40287	353.74873	342.91328	5.64988	0.1134964	0.26962942	2.3729643	21	9 20.9	19.4
316193 2010 LJ_{71}	17.3	X	18.05751	173.53693	171.95639	2.77354	0.1403721	0.27664295	2.3326861	21	11 19.1	19.7
316194 2010 LZ_{80}	17.5	X	36.03899	357.98413	296.33315	1.92760	0.1650381	0.27166647	2.3610872	21	10 6.4	20.0
316195 2010 LN_{100}	16.4	X	126.85202	240.43771	128.35290	14.48094	0.1805366	0.21681006	2.7442042	21	1 19.8	20.3
316196 2010 LF_{119}	15.9	X	352.24063	120.91424	336.62164	12.76556	0.1587162	0.20339595	2.8635703	21	—	—
316197 2010 ME_{10}	16.7	X	238.79466	339.80233	345.12555	18.28310	0.2241946	0.23760155	2.5816847	21	3 5.3	21.1
316198 2010 MP_{33}	16.0	X	314.80313	232.87626	178.92267	13.14925	0.1759428	0.18041798	3.1018171	21	10 5.8	19.4
316199 2010 MA_{37}	16.2	X	336.22183	307.65654	55.10162	2.55927	0.2480355	0.17609247	3.1524063	21	9 4.4	19.1
316200 2010 MT_{41}	15.9	X	240.66633	147.93100	302.04037	6.36678	0.0250883	0.17414846	3.1758230	21	8 29.4	20.5
316201 Malala	16.1	X	295.05504	79.44755	359.81668	15.75638	0.2069204	0.18062039	3.0994992	21	10 1.0	20.0
316202 Johnfowler	16.8	X	95.98150	59.66322	324.27540	3.82442	0.0798529	0.21323857	2.7747608	21	—	—
316203 2010 MV_{56}	15.8	X	57.03096	17.95936	284.29506	3.81994	0.1375506	0.18545800	3.0453625	21	10 28.9	20.1
316204 2010 ML_{61}	16.2	X	305.11128	224.98809	185.05523	5.90810	0.2521809	0.17476814	3.1683115	21	9 1.9	20.0
316205 2010 MK_{69}	16.1	X	24.71064	313.48757	137.67176	8.40594	0.0828746	0.20926320	2.8097918	21	—	—
316206 2010 MU_{74}	15.1	X	145.63862	262.36613	92.19717	10.59062	0.2439653	0.12670107	3.9259901	21	2 11.5	21.5
316207 2010 MR_{80}	16.3	X	326.94842	138.54306	298.08505	10.93281	0.1964095	0.18806979	3.0171022	21	11 30.3	19.6
316208 2010 MT_{81}	15.9	X	308.89191	270.98405	112.91992	6.51321	0.1816809	0.17222243	3.1994568	21	8 17.3	19.7
316209 2010 MD_{94}	16.4	X	345.35612	47.60530	325.63891	4.93225	0.1646619	0.17989234	3.1078563	21	10 8.5	19.9
316210 2010 MJ_{95}	16.2	X	209.90100	36.90002	319.36156	10.86465	0.2043313	0.23392443	2.6086691	21	3 16.1	20.8
316211 2010 MB_{99}	17.0	X	247.50481	234.46610	206.45244	8.84384	0.2162757	0.25828134	2.4419721	21	8 4.6	20.7
316212 2010 MG_{103}	16.5	X	139.74331	192.86511	151.34119	4.71877	0.0802112	0.21333789	2.7738995	21	—	—
316213 2010 NB_{5}	17.3	X	214.05572	146.90030	105.45667	4.96454	0.1365238	0.31410688	2.1433072	21	—	—
316214 2010 NU_{6}	16.8	X	169.08225	237.70541	117.35277	8.49461	0.3681236	0.22834943	2.6509575	21	2 24.8	21.8
316215 2010 NV_{13}	16.2	X	333.22178	32.40568	13.10910	3.99298	0.0688562	0.18438492	3.0571667	21	11 2.0	20.0
316216 2010 NE_{17}	17.6	X	47.56662	349.47249	278.81258	2.51862	0.1068244	0.26381427	2.4077082	21	9 5.7	20.3
316217 2010 NV_{23}	16.4	X	62.25584	211.15918	160.56425	8.10039	0.0478669	0.19913233	2.9043004	21	—	—
316218 2010 NF_{27}	15.9	X	275.46703	92.41653	356.23040	13.51304	0.1616800	0.17680815	3.1438938	21	9 22.4	20.3
316219 2010 NJ_{34}	17.1	X	154.92368	49.12084	355.58170	11.53641	0.0228230	0.23058972	2.6337593	21	3 16.8	20.8
316220 2010 NQ_{38}	15.7	X	3.36028	151.94084	202.71307	24.08991	0.1361121	0.18072505	3.0983025	21	10 17.4	19.3
316221 2010 NX_{38}	16.5	X	130.03304	26.33991	323.11040	3.69503	0.2104217	0.21171042	2.7880971	21	1 5.2	20.6
316222 2010 NG_{44}	16.0	X	2.77153	244.53793	117.12235	15.55191	0.2383544	0.18130377	3.0917058	21	11 11.5	19.5
316223 2010 NL_{56}	15.6	X	326.76434	245.94530	130.66080	6.93678	0.1773978	0.17415856	3.1757003	21	9 9.9	19.2
316224 2010 NO_{57}	16.8	X	133.70569	61.08637	285.36101	3.58907	0.0627492	0.21079843	2.7961328	21	—	—
316225 2010 NG_{67}	16.3	X	162.87153	172.34342	217.82372	16.78047	0.0737275	0.22781095	2.6551332	21	3 8.2	20.4
316226 2010 NJ_{75}	15.3	X	324.77759	276.83310	119.96679	16.83504	0.2411346	0.17591641	3.1545093	21	10 4.1	18.9
316227 2010 NF_{82}	16.2	X	341.10078	313.68848	278.48098	6.26414	0.0846515	0.23728215	2.5840010	21	3 17.9	19.4
316228 2010 NX_{106}	16.1	X	339.52156	356.75379	359.95711	3.99341	0.1830223	0.17378140	3.1802934	21	9 5.9	19.4
316229 2010 NL_{110}	15.7	X	38.17559	57.97139	276.87545	9.11283	0.1064115	0.18425667	3.0585851	21	11 8.5	19.9
316230 2010 NF_{112}	15.7	X	298.80258	202.02811	210.20826	10.80847	0.1591894	0.17332913	3.1858233	21	9 6.2	19.9
316231 2010 NY_{114}	17.1	X	133.25188	278.10399	67.92925	0.51235	0.0799670	0.21023198	2.8011532	21	—	—
316232 2010 OT_{4}	16.8	X	55.98332	108.59937	7.42488	5.09187	0.0733447	0.22017212	2.7161963	21	2 15.3	20.0
316233 2010 OV_{4}	16.4	X	289.30507	94.22459	18.32978	8.98001	0.0729911	0.18742343	3.0240349	21	11 22.7	20.4
316234 2010 OQ_{13}	16.2	X	325.04883	279.90714	117.80803	1.65134	0.1669794	0.17676943	3.1443528	21	10 5.6	19.6
316235 2010 OU_{19}	16.2	X	112.05194	268.35465	111.43019	5.55097	0.0844279	0.21142456	2.7906096	21	1 3.1	19.9
316236 2010 OB_{20}	16.0	X	114.00187	292.29319	115.75629	11.49543	0.1219918	0.21759039	2.7376394	21	2 16.2	19.7
316237 2010 OX_{21}	15.3	X	26.50426	202.36990	120.14379	10.43655	0.0787616	0.17683415	3.1435856	21	10 10.2	19.6
316238 2010 OY_{22}	16.1	X	30.45652	43.00473	42.81303	5.89232	0.0631905	0.20599951	2.8393914	21	—	—
316239 2010 OP_{25}	16.0	X	292.08367	237.80602	199.82576	13.93555	0.1863513	0.17578400	3.1560932	21	9 27.1	20.0
316240 2010 OZ_{27}	15.2	X	280.81456	117.06712	315.65451	16.98331	0.1008979	0.17334751	3.1855981	21	9 11.3	19.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
316241 2010 OX_{28}	16.0	X	205.04892	50.88769	323.65924	5.76452	0.2427485	0.23398650	2.6082078	21	4 4.6	20.7
316242 2010 OA_{31}	15.8	X	28.18902	42.43689	313.50701	9.95348	0.1862272	0.18541023	3.0458856	21	12 3.6	19.8
316243 2010 OG_{31}	15.8	X	330.95812	307.36902	93.52279	6.26959	0.1851507	0.17838543	3.1253342	21	10 22.7	19.2
316244 2010 OL_{32}	16.0	X	115.21651	239.44567	85.92729	11.98162	0.1666644	0.20172645	2.8793480	21	—	—
316245 2010 OS_{39}	15.6	X	315.99644	101.45301	312.38394	9.12752	0.1077860	0.17813395	3.1282750	21	10 10.5	19.7
316246 2010 OZ_{40}	15.4	X	237.45446	123.27049	2.66873	16.14862	0.0495147	0.17687623	3.1430870	21	10 5.9	19.9
316247 2010 OF_{42}	15.5	X	49.49988	17.24253	320.07517	9.60540	0.1352436	0.18657075	3.0332416	21	12 1.3	19.9
316248 2010 OK_{50}	16.3	X	332.98313	228.66067	307.98383	5.74889	0.0497406	0.21455835	2.7633704	21	1 6.6	19.8
316249 2010 OL_{55}	15.9	X	354.94147	70.16211	314.15681	14.41528	0.2694203	0.18102671	3.0948595	21	11 18.2	19.2
316250 2010 ON_{65}	15.5	X	309.32403	39.06921	339.13228	9.63584	0.0516787	0.16768724	3.2568872	21	8 25.9	19.8
316251 2010 OV_{66}	15.9	X	19.99930	248.62679	135.58366	9.19515	0.0411687	0.18803993	3.0174216	21	12 10.9	20.1
316252 2010 OA_{70}	16.6	X	333.22547	295.40259	241.17219	4.83700	0.0219763	0.21446165	2.7642010	21	1 9.3	20.3
316253 2010 OA_{72}	14.9	X	33.12246	291.47597	359.72015	15.43681	0.0873038	0.16944214	3.2343605	21	9 8.0	19.1
316254 2010 OE_{86}	16.5	X	192.76269	269.40068	88.93229	6.42656	0.0808876	0.22597448	2.6694991	21	3 9.9	20.5
316255 2010 OG_{88}	15.4	X	246.41197	296.68829	21.79671	13.52302	0.1616967	0.23263607	2.6182916	21	3 12.7	19.6
316256 2010 OF_{89}	16.0	X	18.11872	71.33178	300.23749	8.99130	0.1094735	0.18441500	3.0568342	21	11 27.7	20.0
316257 2010 OH_{97}	16.4	X	126.74092	229.13223	148.83100	5.90406	0.0956947	0.21312107	2.7757805	21	1 19.8	20.2
316258 2010 OE_{100}	16.3	X	211.26281	229.67404	83.60822	12.31016	0.1858074	0.23525199	2.5988458	21	1 31.6	20.7
316259 2010 OH_{100}	17.7	X	43.13193	139.77634	185.09407	5.41015	0.2040205	0.28324037	2.2963211	21	12 7.8	20.7
316260 2010 OQ_{107}	16.1	X	50.22169	89.91090	251.51790	8.00212	0.1551030	0.18677329	3.0310484	21	12 11.4	20.4
316261 2010 ON_{113}	15.9	X	69.12568	37.25463	304.66075	8.15190	0.1033946	0.19061726	2.9901610	21	12 28.0	20.3
316262 2010 OP_{116}	16.2	X	252.31733	188.15582	78.91241	9.88891	0.1065651	0.21896867	2.7261394	21	1 16.9	20.4
316263 2010 OT_{121}	16.1	X	216.67894	345.68572	355.81377	5.32261	0.3390259	0.23186542	2.6240900	21	3 7.3	20.9
316264 2010 PV_{8}	17.0	X	67.29167	358.11940	323.84321	7.08923	0.1512625	0.28770201	2.2725186	21	12 25.5	20.2
316265 2010 PT_{9}	16.5	X	259.41493	191.33696	182.01406	3.02059	0.1806084	0.25664656	2.4523310	21	5 26.9	19.9
316266 2010 PE_{22}	15.8	X	134.03827	340.94778	269.50082	7.20346	0.0633254	0.18266224	3.0763580	21	11 12.3	20.4
316267 2010 PW_{25}	13.2	X	289.25842	14.53559	70.69350	8.58455	0.0957432	0.08403605	5.1620909	21	10 9.0	19.9
316268 2010 PJ_{26}	16.7	X	331.51104	349.58877	323.73973	5.63257	0.1241647	0.26251500	2.4156460	21	6 26.1	19.1
316269 2010 PG_{30}	16.1	X	336.17767	175.42541	236.69129	5.32313	0.1507464	0.18082585	3.0971509	21	11 14.7	19.5
316270 2010 PV_{33}	16.5	X	174.38969	40.83642	311.03468	3.82990	0.1233615	0.21937070	2.7228077	21	2 10.8	20.7
316271 2010 PA_{35}	15.9	X	355.62279	87.36166	273.33780	1.62164	0.0692878	0.17463957	3.1698664	21	10 7.3	20.0
316272 2010 PY_{39}	15.8	X	17.10517	192.65424	181.80922	12.99521	0.0960076	0.18349816	3.0670080	21	11 30.9	20.0
316273 2010 PL_{42}	15.8	X	353.63431	109.88508	312.79904	8.43824	0.1743152	0.18709138	3.0276119	21	—	—
316274 2010 PH_{49}	15.9	X	284.25132	75.71747	34.51806	11.18205	0.1078001	0.18071933	3.0983679	21	11 8.2	20.0
316275 2010 PP_{50}	15.8	X	341.58044	263.77483	123.67572	8.93383	0.0945512	0.17689355	3.1428818	21	10 26.1	19.8
316276 2010 PL_{51}	16.0	X	311.79363	81.07775	351.68891	6.80693	0.0855437	0.17932948	3.1143560	21	11 1.7	20.2
316277 2010 PW_{52}	15.9	X	224.63059	354.01763	351.48055	15.99994	0.2526449	0.23277473	2.6172517	21	3 17.0	20.4
316278 2010 PD_{55}	16.8	X	224.76779	36.27685	298.64210	5.81509	0.0843882	0.22728258	2.6592466	21	3 8.7	20.8
316279 2010 PZ_{57}	16.5	X	173.97072	208.21442	143.18422	11.85391	0.1970187	0.22834019	2.6510290	21	2 13.6	20.9
316280 2010 PO_{61}	17.1	X	355.30915	159.89132	157.36284	1.40815	0.2001792	0.26724104	2.3870817	21	8 23.4	18.8
316281 2010 PR_{64}	17.2	X	110.03957	228.83079	324.61181	5.90970	0.0540812	0.26344586	2.4099524	21	8 11.6	20.3
316282 2010 PC_{65}	17.0	X	153.15572	254.72263	164.14624	4.44791	0.0887737	0.23743952	2.5828591	21	4 9.2	20.6
316283 2010 PG_{72}	16.0	X	251.54119	293.60191	21.00567	11.88178	0.2063137	0.23214794	2.6219606	21	3 9.2	20.3
316284 2010 PY_{76}	17.4	X	62.64658	351.76412	331.43631	6.02057	0.1282517	0.28559348	2.2836902	21	12 18.3	20.5
316285 2010 PB_{80}	17.8	X	243.28701	225.28853	190.28107	2.12944	0.0792457	0.25874423	2.4390588	21	7 15.9	20.9
316286 2010 QK_{5}	16.4	X	267.03451	154.13670	202.79364	13.49029	0.1299064	0.25434107	2.4671282	21	5 20.8	19.9
316287 2010 RG_{2}	17.5	X	298.14871	185.92222	180.36582	1.75142	0.1826058	0.26172953	2.4204766	21	7 6.7	20.0
316288 2010 RC_{3}	17.0	X	283.80431	278.13834	88.37286	2.38972	0.1926937	0.25758322	2.4463824	21	6 13.9	20.2
316289 2010 RM_{4}	17.3	X	285.34196	8.00438	18.81962	5.85409	0.0885631	0.26233822	2.4167311	21	8 4.7	20.2
316290 2010 RD_{9}	16.9	X	337.93507	223.79561	113.62292	2.99956	0.1857975	0.26634919	2.3924073	21	8 13.8	18.7
316291 2010 RJ_{10}	16.8	X	102.01307	96.48641	318.13353	3.16264	0.1142823	0.21896412	2.7261772	21	2 5.6	20.1
316292 2010 RJ_{20}	16.4	X	64.33687	98.93741	283.76227	8.01607	0.1475712	0.20618885	2.8376528	21	—	—
316293 2010 RZ_{36}	16.0	X	287.84098	277.93689	244.34109	5.06870	0.0117621	0.20387650	2.8590688	21	—	—
316294 2010 RD_{38}	16.6	X	111.13223	29.77590	330.48292	2.56248	0.1015384	0.20887005	2.8133166	21	—	—
316295 2010 RD_{40}	15.6	X	338.17539	48.75860	326.82957	15.86470	0.2323106	0.17952587	3.1120843	21	9 20.6	18.9
316296 2010 RH_{40}	17.0	X	96.67025	2.87702	328.83765	9.30158	0.0753221	0.29270287	2.2465602	21	—	—
316297 2010 RB_{48}	16.7	X	58.25915	148.96854	248.17781	0.81555	0.1090964	0.20368388	2.8608710	21	—	—
316298 2010 RV_{51}	16.6	X	327.56996	199.72156	161.38508	1.75162	0.2124944	0.17228847	3.1986390	21	8 14.9	19.8
316299 2010 RP_{56}	17.0	X	148.04053	176.81135	244.56688	4.56966	0.1054253	0.23433283	2.6056372	21	4 5.7	20.9
316300 2010 RX_{59}	17.3	X	275.95185	112.65302	215.04974	4.68846	0.0868121	0.24441363	2.5334895	21	4 27.9	20.5
316301 2010 RY_{59}	17.0	X	64.40384	58.24941	341.62744	4.93181	0.0758944	0.20599037	2.8394754	21	—	—
316302 2010 RY_{61}	16.0	X	340.11550	14.64906	17.85479	10.39240	0.0993483	0.18079466	3.0975071	21	10 25.3	19.7
316303 2010 RV_{62}	17.8	X	149.34924	338.31369	327.65458	6.12811	0.1051571	0.30260058	2.1973009	21	—	—
316304 2010 RY_{63}	17.0	X	36.52329	134.64973	180.87504	6.55038	0.2158723	0.27472763	2.3435154	21	11 17.8	19.8
316305 2010 RR_{65}	16.9	X	139.46457	47.53454	299.21500	9.74618	0.1995682	0.21878652	2.7276523	21	1 9.3	20.9
316306 2010 RG_{66}	17.4	X	341.07324	359.40358	327.48437	3.00675	0.1222575	0.26382058	2.4076699	21	8 6.3	19.4
316307 2010 RD_{67}	16.5	X	61.51394	241.19994	118.66388	6.85280	0.1711276	0.19602558	2.9349062	21	—	—
316308 2010 RH_{67}	17.0	X	163.26785	2.98375	258.28890	4.76567	0.1471524	0.29204647	2.2499252	21	—	—
316309 2010 RU_{68}	16.9	X	346.00162	88.83416	233.42347	7.49897	0.1117368	0.26452232	2.4034098	21	8 5.3	19.4
316310 2010 RX_{68}	16.6	X	104.43595	156.76520	210.58356	8.71837	0.1699416	0.21108923	2.7935642	21	—	—
316311 2010 RE_{69}	16.6	X	113.92354	103.83080	275.84896	7.37588	0.1586417	0.21556926	2.7547244	21	1 14.5	20.4
316312 2010 RH_{78}	16.6	X	141.90473	301.60320	25.76193	9.32443	0.1485742	0.21035729	2.8000407	21	—	—
316313 2010 RH_{90}	16.2	X	241.30655	350.65872	333.22632	14.69664	0.1488533	0.23627192	2.5913613	21	3 7.4	20.2
316314 2010 RK_{90}	16.2	X	210.37032	61.61993	222.76486	13.81785	0.0879588	0.21763053	2.7373027	21	—	—
316315 2010 RO_{98}	17.3	X	348.34922	46.71624	326.90859	4.90733	0.0197604	0.27254575	2.3560062	21	10 25.0	20.1
316316 2010 RS_{98}	17.4	X	212.95082	60.01391	252.36197	3.73489	0.0349112	0.22317775	2.6917546	21	1 29.6	21.2
316317 2010 RF_{101}	17.0	X	138.09756	316.75835	262.68047	2.47274	0.1312769	0.27276682	2.3547331	21	10 22.9	20.7
316318 2010 RO_{101}	17.2	X	69.79749	73.16074	341.36891	4.38608	0.0476507	0.21042541	2.7994363	21	—	—
316319 2010 RV_{101}	16.9	X	130.01595	353.08517	202.53254	6.80496	0.0613059	0.26229497	2.4169968	21	9 7.3	20.2
316320 2010 RE_{103}	17.5	X	125.90190	263.30851	342.92057	3.00475	0.0634604	0.27626597	2.3348077	21	11 11.8	20.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
316321 2010 RG_{104}	17.5	X	148.41700	207.60326	348.13410	3.06468	0.0725814	0.26653544	2.3912927	21	10 1.6	20.9
316322 2010 RL_{108}	17.2	X	167.87129	302.24291	273.03609	4.79344	0.0518312	0.27977097	2.3152663	21	11 21.6	20.4
316323 2010 RW_{108}	17.3	X	57.53851	271.73270	13.49850	1.43137	0.1870047	0.27391092	2.3481715	21	10 28.8	20.3
316324 2010 RS_{109}	16.2	X	88.30266	275.95330	172.96637	14.08520	0.1721146	0.21857468	2.7294144	21	3 11.6	19.5
316325 2010 RT_{110}	17.2	X	174.83768	171.69175	176.79612	5.63697	0.0794871	0.22299049	2.6932613	21	2 2.6	21.3
316326 2010 RB_{112}	17.0	X	111.33594	268.23495	117.17262	1.19376	0.0800501	0.21496842	2.7598551	21	1 7.8	20.5
316327 2010 RJ_{112}	16.5	X	145.99038	212.34338	170.35447	6.04033	0.0305476	0.22335490	2.6903311	21	2 6.7	20.1
316328 2010 RW_{114}	17.5	X	73.86853	314.46258	339.77734	6.79439	0.1256670	0.27706850	2.3302970	21	11 19.5	20.8
316329 2010 RB_{115}	16.9	X	186.79235	78.15277	230.16332	5.34275	0.0172684	0.21422701	2.7662190	21	—	—
316330 2010 RM_{116}	17.5	X	115.28363	201.58150	83.91558	3.34628	0.2064806	0.28722661	2.2750255	21	12 27.8	21.2
316331 2010 RB_{119}	16.2	X	89.04497	18.95095	13.90825	6.07740	0.0444483	0.21146568	2.7902479	21	—	—
316332 2010 RG_{123}	16.7	X	124.65296	327.63923	65.79846	1.97995	0.0563736	0.21947034	2.7219835	21	1 30.9	20.3
316333 2010 RP_{123}	16.6	X	27.41685	142.10656	345.41755	7.12991	0.0926768	0.21662754	2.7457455	21	1 18.2	19.8
316334 2010 RS_{124}	17.0	X	99.21401	258.51602	129.74188	2.26867	0.1227589	0.21256735	2.7805988	21	1 1.8	20.5
316335 2010 RP_{125}	16.2	X	334.89372	345.03603	34.04699	5.83305	0.1752158	0.17782410	3.1319079	21	9 29.7	19.6
316336 2010 RZ_{125}	17.2	X	185.37344	81.49084	120.13490	3.93596	0.0709391	0.28033106	2.3121814	21	11 24.7	20.2
316337 2010 RM_{126}	17.7	X	151.31414	127.27085	136.90902	5.64206	0.1233449	0.29017408	2.2595934	21	—	—
316338 2010 RU_{126}	16.0	X	335.70522	103.15524	32.21696	8.73639	0.1200190	0.20432399	2.8548928	21	—	—
316339 2010 RZ_{128}	16.3	X	260.63794	195.91509	276.98768	4.79668	0.1000581	0.18020972	3.1042063	21	10 11.3	20.8
316340 2010 RA_{129}	16.1	X	238.41066	304.19973	310.88469	5.00045	0.0325434	0.21411209	2.7672087	21	—	—
316341 2010 RG_{136}	16.8	X	263.52573	237.60299	68.64845	3.79860	0.0584717	0.23392651	2.6086537	21	3 21.9	20.4
316342 2010 RH_{141}	17.3	X	5.10334	90.42011	214.09153	3.80403	0.1223088	0.26404135	2.4063276	21	8 17.6	19.6
316343 2010 RL_{143}	17.1	X	135.39811	79.38424	335.75161	4.82772	0.0895568	0.22768595	2.6561049	21	3 14.0	20.9
316344 2010 RH_{146}	17.4	X	169.06055	71.78250	267.42604	0.76032	0.1382106	0.21930372	2.7233620	21	1 22.7	21.6
316345 2010 RZ_{146}	17.5	X	91.07036	9.35793	190.58318	6.06056	0.0840473	0.25306428	2.4754196	21	7 28.2	20.8
316346 2010 RR_{147}	16.3	X	39.26562	53.44680	32.15641	4.01944	0.0682741	0.20853125	2.8163629	21	—	—
316347 2010 RE_{151}	17.3	X	125.63945	174.29384	348.40012	5.66889	0.0530738	0.25496794	2.4630827	21	7 20.7	20.6
316348 2010 RF_{151}	16.9	X	159.97759	38.51244	335.32654	2.18697	0.1112412	0.22596590	2.6695667	21	2 21.3	20.9
316349 2010 RW_{152}	16.5	X	269.53409	213.47472	15.38251	12.05056	0.0476870	0.21659425	2.7460267	21	—	—
316350 2010 RG_{156}	16.6	X	326.52059	175.54607	74.01627	5.53338	0.1198922	0.23679193	2.5875661	21	3 21.6	19.7
316351 2010 RV_{160}	15.5	X	9.76620	44.33035	303.17905	13.90622	0.1719248	0.18213309	3.0823135	21	10 14.8	19.4
316352 2010 RJ_{164}	16.9	X	227.68003	7.92328	353.92743	4.36930	0.1065809	0.24131772	2.5551118	21	4 13.6	20.8
316353 2010 RZ_{164}	15.9	X	331.11576	29.93493	353.13464	16.86025	0.2125261	0.17769250	3.1334539	21	9 21.8	19.2
316354 2010 RZ_{169}	16.8	X	63.61524	110.54381	272.61209	0.98521	0.0771994	0.20300170	2.8672767	21	—	—
316355 2010 RD_{174}	17.6	X	98.58802	313.84010	288.18744	4.02668	0.0010171	0.26576640	2.3959035	21	9 23.5	20.5
316356 2010 RH_{175}	16.8	X	122.04235	354.37194	33.56929	6.74453	0.0778161	0.21615387	2.7497553	21	1 26.1	20.6
316357 2010 RW_{175}	16.9	X	131.50132	123.72469	227.97702	5.51814	0.0617960	0.21237610	2.7822679	21	—	—
316358 2010 RZ_{176}	16.8	X	128.20088	224.15379	2.29234	7.93396	0.1360989	0.27395486	2.3479204	21	10 21.3	20.4
316359 2010 RV_{177}	16.8	X	333.16501	349.38863	102.24550	3.79138	0.0245759	0.19521695	2.9430052	21	—	—
316360 2010 RO_{180}	17.1	X	51.64955	133.77503	291.92899	3.77322	0.0923809	0.29755940	2.2220488	21	—	—
316361 2010 SM_{2}	16.6	X	157.38312	50.38198	266.62874	2.43423	0.1532120	0.20902008	2.8119702	21	—	—
316362 2010 SB_{11}	17.7	X	219.91147	101.70367	340.86456	3.78296	0.0279616	0.26035276	2.4290023	21	7 30.8	20.8
316363 2010 SU_{18}	16.6	X	173.63221	173.00734	165.21343	2.18870	0.0835388	0.21833515	2.7314103	21	1 21.7	20.6
316364 2010 SJ_{19}	16.6	X	90.41846	318.14252	63.65157	3.05074	0.0763569	0.20699726	2.8302599	21	—	—
316365 2010 SD_{20}	17.0	X	53.07701	197.60744	357.01351	4.89387	0.1268745	0.24316771	2.5421360	21	5 31.5	19.9
316366 2010 SX_{21}	15.7	X	309.21225	53.89984	1.52479	10.45045	0.1560728	0.17821215	3.1273597	21	9 30.8	19.5
316367 2010 SP_{27}	16.5	X	290.24223	233.09642	210.06068	4.56501	0.1108244	0.17865695	3.1221668	21	10 13.7	20.4
316368 2010 SQ_{27}	17.1	X	87.47319	4.77654	4.23098	1.70584	0.0791220	0.20294861	2.8677766	21	—	—
316369 2010 SU_{27}	16.4	X	288.89828	88.60748	15.73523	7.56891	0.1632147	0.18219677	3.0815953	21	10 30.9	20.4
316370 2010 SZ_{30}	16.0	X	35.05915	93.75518	336.87147	14.35299	0.1290723	0.20623665	2.8372144	21	—	—
316371 2010 SL_{32}	16.0	X	247.41749	309.96660	134.31061	5.98313	0.0928793	0.17019014	3.2248767	21	8 23.9	20.8
316372 2010 SJ_{36}	16.7	X	105.93359	37.84365	350.93923	1.80712	0.0946763	0.21503656	2.7592720	21	1 7.3	20.2
316373 2010 SL_{37}	16.1	X	235.11096	36.59290	317.61305	9.14264	0.1510145	0.23854162	2.5748975	21	4 5.7	20.4
316374 2010 SK_{39}	17.1	X	134.32543	209.77639	160.15976	5.20239	0.1284691	0.21648567	2.7469449	21	1 22.4	21.1
316375 2010 TJ_{3}	17.3	X	113.83844	228.73746	188.76310	1.53569	0.0711183	0.22105320	2.7089740	21	2 17.5	20.8
316376 2010 TL_{9}	17.0	X	144.38900	184.38235	189.34142	4.48745	0.1227272	0.22082666	2.7108265	21	2 5.2	20.9
316377 2010 TQ_{9}	17.1	X	185.12778	333.10352	5.68041	5.56344	0.0513146	0.22302972	2.6929454	21	2 3.1	21.0
316378 2010 TG_{12}	16.9	X	121.11338	217.02162	335.02667	6.03258	0.0641232	0.25931547	2.4354755	21	8 24.7	19.9
316379 2010 TA_{14}	17.1	X	157.56072	127.43033	224.54052	5.64880	0.0659257	0.21887035	2.7269558	21	1 17.9	21.0
316380 2010 TE_{15}	17.5	X	67.24156	276.96156	329.34100	7.04896	0.0365743	0.25975345	2.4327370	21	8 23.8	20.6
316381 2010 TJ_{17}	15.9	X	226.77514	172.97418	294.60333	4.55283	0.1229092	0.16777114	3.2558012	21	8 24.3	20.8
316382 2010 TV_{23}	17.1	X	350.09550	101.23438	49.13676	2.97445	0.0360437	0.21385905	2.7693911	21	—	—
316383 2010 TW_{23}	16.7	X	332.78873	34.59828	184.03293	7.32506	0.0721393	0.22831699	2.6512086	21	2 20.9	20.1
316384 2010 TV_{24}	15.4	X	273.03019	56.86442	22.10347	16.09882	0.2250144	0.17226424	3.1989391	21	9 5.4	20.1
316385 2010 TX_{28}	17.2	X	206.02913	8.23257	301.14119	2.09811	0.0342701	0.22107159	2.7088238	21	1 19.5	20.9
316386 2010 TN_{34}	17.0	X	288.60034	58.10101	167.73877	4.46083	0.0072888	0.21785744	2.7354017	21	1 16.3	20.7
316387 2010 TD_{35}	15.9	X	358.89902	347.12837	35.45594	10.52498	0.0698219	0.18371624	3.0645804	21	11 9.9	19.9
316388 2010 TL_{35}	16.4	X	334.31077	23.36579	73.36173	2.94195	0.0888751	0.19402569	2.9550390	21	—	—
316389 2010 TC_{36}	16.9	X	204.48799	239.15721	53.21511	5.01724	0.0492341	0.21396027	2.7685176	21	—	—
316390 2010 TB_{41}	16.5	X	151.16511	127.96681	217.63987	5.65757	0.0520559	0.21432589	2.7653682	21	1 2.8	20.5
316391 2010 TF_{43}	17.6	X	114.23648	103.51334	320.41385	2.10706	0.0946062	0.22279145	2.6948651	21	3 1.4	21.2
316392 2010 TL_{46}	17.2	X	155.49726	353.41433	201.87040	2.12520	0.0912776	0.26741399	2.3860524	21	10 9.7	20.6
316393 2010 TY_{49}	15.7	X	202.22442	126.44345	34.68061	14.06307	0.0595106	0.17748863	3.1358530	21	10 12.5	20.4
316394 2010 TQ_{50}	15.8	X	333.92032	272.47245	123.79226	10.14747	0.0762465	0.17966378	3.1104916	21	10 26.8	19.9
316395 2010 TW_{52}	17.8	X	47.87631	139.58023	128.25689	1.99183	0.1663523	0.26285129	2.4135852	21	9 17.7	20.5
316396 2010 TK_{53}	16.7	X	351.11853	284.42491	135.14714	2.24105	0.0777449	0.18951537	3.0017402	21	12 18.0	20.5
316397 2010 TZ_{56}	16.4	X	151.43691	14.80141	323.21412	4.44255	0.0558116	0.21279154	2.7786455	21	—	—
316398 2010 TE_{62}	16.9	X	79.62106	172.01313	252.98388	5.40958	0.0593579	0.21559862	2.7544744	21	1 11.4	20.4
316399 2010 TL_{62}	17.0	X	321.81638	292.92771	330.01544	5.76455	0.0931725	0.23981006	2.5658097	21	3 30.8	20.2
316400 2010 TQ_{65}	17.1	X	112.20496	332.91892	228.97119	4.80762	0.0539376	0.26242698	2.4161862	21	8 23.4	20.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
316401 2010 TB_{67}	16.9	X	64.02823	62.11702	322.31320	1.18305	0.0746384	0.20365261	2.8611638	21	—	—
316402 2010 TB_{70}	16.6	X	122.07347	26.05093	352.75616	5.69507	0.0485600	0.21615710	2.7497279	21	1 9.5	20.3
316403 2010 TA_{72}	17.1	X	112.50690	74.21031	322.20392	1.24226	0.0816832	0.21732214	2.7398917	21	1 22.9	20.8
316404 2010 TP_{74}	18.2	X	209.24064	52.77279	186.90090	2.93638	0.1217148	0.29565255	2.2315928	21	—	—
316405 2010 TG_{75}	17.1	X	66.98149	285.08475	348.45750	6.47656	0.0986989	0.26748171	2.3856496	21	10 9.4	20.2
316406 2010 TJ_{81}	16.7	X	29.46163	74.79965	238.91781	5.76903	0.1276251	0.27130106	2.3632067	21	10 17.1	19.3
316407 2010 TM_{84}	17.0	X	48.15851	245.86205	159.03748	2.39469	0.0650075	0.20347030	2.8628727	21	—	—
316408 2010 TY_{89}	16.9	X	318.24322	65.65231	67.97147	3.11924	0.0152467	0.20316770	2.8657146	21	—	—
316409 2010 TS_{91}	16.8	X	24.19765	151.19812	13.51191	9.51941	0.0280479	0.22757658	2.6569559	21	3 3.8	20.2
316410 2010 TG_{95}	16.9	X	80.96929	224.26855	141.45285	2.82326	0.0801412	0.20292632	2.8679867	21	—	—
316411 2010 TY_{99}	17.0	X	128.68901	178.32498	172.40135	4.56635	0.0776638	0.21108102	2.7936367	21	—	—
316412 2010 TT_{100}	16.4	X	5.28822	318.86790	128.07430	3.05310	0.0358909	0.20236086	2.8733269	21	—	—
316413 2010 TV_{100}	17.3	X	132.39847	135.00739	76.31084	2.36391	0.1237294	0.26836296	2.3804241	21	10 8.2	20.8
316414 2010 TY_{103}	16.9	X	62.58848	337.44061	144.89396	3.88565	0.0643541	0.22522811	2.6753935	21	3 2.4	20.1
316415 2010 TB_{109}	17.1	X	322.93247	74.96008	110.83634	3.06607	0.0142299	0.21755187	2.7379625	21	1 8.9	20.7
316416 2010 TF_{111}	17.0	X	22.91616	276.79209	212.67365	3.64427	0.0161963	0.21681907	2.7441282	21	1 14.3	20.7
316417 2010 TN_{115}	15.9	X	238.99453	293.29717	192.59414	5.60169	0.2310107	0.17367935	3.1815390	21	9 17.7	20.9
316418 2010 TU_{116}	16.7	X	188.47629	160.98437	149.02544	0.94914	0.0565762	0.21443954	2.7643910	21	1 2.7	20.7
316419 2010 TW_{116}	17.2	X	68.29677	240.92920	193.77759	4.21873	0.0491753	0.21299576	2.7768691	21	1 7.9	20.7
316420 2010 TE_{120}	16.8	X	84.59068	108.02594	342.97923	11.80680	0.1799277	0.22253988	2.6968957	21	3 8.8	19.9
316421 2010 TA_{122}	16.7	X	113.86867	307.88278	78.44547	5.06827	0.1064316	0.21482183	2.7611105	21	1 16.7	20.3
316422 2010 TZ_{130}	15.9	X	346.45532	48.71142	323.70526	10.19796	0.1024028	0.17806085	3.1291310	21	10 5.5	19.9
316423 2010 TM_{136}	16.5	X	138.47464	358.51587	171.62976	12.37827	0.1906615	0.25510381	2.4622081	21	8 21.5	20.6
316424 2010 TK_{139}	16.0	X	255.88619	307.20714	241.90168	7.90466	0.0433949	0.19680853	2.9271172	21	—	—
316425 2010 TK_{143}	16.2	X	75.00083	134.27846	271.05525	4.68317	0.0571221	0.20600807	2.8393127	21	—	—
316426 2010 TG_{150}	16.0	X	176.51725	202.41710	105.53441	5.41394	0.1948807	0.21321675	2.7749501	21	—	—
316427 2010 TS_{151}	16.8	X	45.15777	60.85326	63.55683	3.24028	0.0508327	0.22209924	2.7004616	21	2 8.2	20.1
316428 2010 TY_{152}	16.5	X	302.86952	312.15248	143.37066	4.18199	0.1044360	0.18700102	3.0285871	21	11 20.8	20.4
316429 2010 TC_{159}	17.8	X	202.67564	204.04828	35.69575	5.28252	0.1430245	0.29492382	2.2352674	21	—	—
316430 2010 TF_{166}	15.9	X	55.34538	286.54033	40.34232	10.39137	0.0502427	0.18243482	3.0789140	21	11 13.7	20.1
316431 2010 TH_{167}	13.4	X	335.86160	350.17875	59.82783	29.49549	0.0924992	0.08508315	5.1196507	21	11 3.1	19.9
316432 2010 TQ_{167}	17.0	X	176.22978	185.17211	347.10980	6.28180	0.0626041	0.26731401	2.3866473	21	10 2.2	20.4
316433 2010 TP_{168}	15.4	X	77.66675	335.13834	21.95273	9.68651	0.0852919	0.19239286	2.9717351	21	—	—
316434 2010 TL_{172}	17.4	X	65.87728	36.41475	219.19214	5.60898	0.1313314	0.26181703	2.4199373	21	9 17.5	20.5
316435 2010 TG_{175}	16.7	X	62.32872	263.72740	73.87644	7.65236	0.1438492	0.28526000	2.2854697	21	—	—
316436 2010 TX_{182}	17.1	X	37.52836	171.99533	37.91861	6.83342	0.0722626	0.24420416	2.5349380	21	5 20.8	20.0
316437 2010 UA_{1}	15.4	X	315.02410	127.06675	312.76511	9.56322	0.0675210	0.18172537	3.0869221	21	11 16.6	19.6
316438 2010 UN_{4}	15.6	X	219.94001	36.50510	238.09156	8.13197	0.1167914	0.21116788	2.7928705	21	—	—
316439 2010 UT_{11}	16.4	X	91.59484	185.37248	45.80394	9.75102	0.0804972	0.25898087	2.4375728	21	9 17.1	19.8
316440 2010 UL_{17}	15.8	X	230.61178	2.84497	234.36361	11.43717	0.0407883	0.19715047	2.9237316	21	—	—
316441 2010 UY_{21}	16.6	X	25.88755	164.04319	70.11338	3.13954	0.1144785	0.24325473	2.5415297	21	6 9.9	19.2
316442 2010 UJ_{32}	17.2	X	87.41096	317.24818	345.23278	5.14900	0.1709479	0.28018871	2.3129645	21	12 21.3	20.8
316443 2010 UF_{47}	17.0	X	65.05206	267.81570	18.70964	7.07137	0.1074598	0.26861918	2.3789102	21	10 26.9	20.0
316444 2010 UJ_{49}	16.2	X	298.64182	355.72287	109.74648	3.19866	0.0491122	0.18552203	3.0446617	21	12 1.2	20.3
316445 2010 UQ_{51}	15.8	X	353.07447	262.25464	75.79266	6.16037	0.2064592	0.17327665	3.1864665	21	9 11.0	19.1
316446 2010 UT_{53}	13.8	X	287.09398	193.91889	261.07704	6.25296	0.0844108	0.08549048	5.1033757	21	10 12.9	20.6
316447 2010 UM_{58}	15.4	X	272.82225	41.39578	67.62316	17.11726	0.0577621	0.17923173	3.1154882	21	11 3.9	19.8
316448 2010 UA_{63}	16.1	X	167.78966	49.93650	281.40314	5.33361	0.0937171	0.21119555	2.7926266	21	1 9.6	20.2
316449 2010 UL_{65}	17.0	X	255.47505	249.59355	328.92351	1.84731	0.0127638	0.20552533	2.8437570	21	—	—
316450 Changhsiangtung	16.7	X	192.61534	322.83922	349.93396	3.51261	0.1103431	0.21695852	2.7429523	21	1 13.5	21.0
316451 2010 UQ_{72}	16.6	X	245.93486	195.39443	145.08880	8.06729	0.1266688	0.23675059	2.5878673	21	4 8.8	20.5
316452 2010 UM_{74}	16.2	X	156.33360	53.97071	309.25480	5.38530	0.0597576	0.21750113	2.7383883	21	1 31.3	20.1
316453 2010 US_{76}	15.2	X	235.43902	243.05522	250.62334	12.13158	0.1422881	0.17058562	3.2198905	21	9 28.5	20.3
316454 2010 UY_{78}	15.8	X	162.27548	65.20847	307.06948	5.26080	0.0297166	0.21764665	2.7371676	21	2 14.5	19.7
316455 2010 UW_{81}	16.1	X	8.60689	144.57785	236.34505	3.41156	0.1073961	0.18218739	3.0817010	21	11 26.1	19.9
316456 2010 UK_{82}	16.7	X	75.72236	253.89898	157.21279	2.38596	0.0397389	0.20676738	2.8323573	21	—	—
316457 2010 UC_{84}	16.5	X	223.87721	305.92336	351.65402	2.91012	0.0746254	0.21760682	2.7375016	21	1 26.0	20.5
316458 2010 UA_{88}	16.0	X	177.22692	255.25991	141.16767	14.79831	0.0423940	0.22955689	2.6416534	21	4 9.6	20.0
316459 2010 UN_{89}	17.3	X	151.19098	134.53667	48.26047	0.58328	0.1444643	0.26312848	2.4118899	21	9 19.4	21.0
316460 2010 UP_{91}	15.6	X	29.52694	86.51090	314.37370	5.73806	0.0887989	0.18943301	3.0026101	21	—	—
316461 2010 UQ_{91}	13.9	X	327.87931	105.54237	312.12680	7.79131	0.0751351	0.08367557	5.1769056	21	10 21.4	20.6
316462 2010 UE_{95}	16.3	X	217.39514	341.95172	10.54504	8.51505	0.0568605	0.22861083	2.6489363	21	3 26.5	20.2
316463 2010 UR_{95}	16.0	X	290.81618	66.97204	237.94000	13.79355	0.0203834	0.23358426	2.6112012	21	4 26.2	19.4
316464 2010 UT_{95}	15.7	X	32.41038	224.52853	143.41083	8.13128	0.1567410	0.18528585	3.0472485	21	12 21.4	19.9
316465 2010 UA_{96}	15.6	X	27.91763	285.25076	112.29692	10.19793	0.1161711	0.18933109	3.0036876	21	—	—
316466 2010 UW_{97}	16.3	X	39.92428	262.36567	84.84784	9.09431	0.0628497	0.17987636	3.1080404	21	11 22.7	20.5
316467 2010 UC_{98}	16.8	X	296.40598	157.54946	148.77566	5.36107	0.0251858	0.23916756	2.5704029	21	5 8.2	20.1
316468 2010 UH_{98}	17.0	X	261.58999	204.52735	130.65710	5.28126	0.0404045	0.23777318	2.5804422	21	4 28.8	20.5
316469 2010 UG_{99}	17.0	X	218.86485	328.70644	7.40687	1.42094	0.0798688	0.22465673	2.6799278	21	3 7.2	20.8
316470 2010 VE_{7}	16.4	X	287.54039	111.52515	356.38918	4.72612	0.1457951	0.18129568	3.0917978	21	11 4.6	20.3
316471 2010 VD_{11}	16.0	X	54.97207	55.23809	328.19079	11.02389	0.0635382	0.19357892	2.9595840	21	—	—
316472 2010 VF_{14}	15.7	X	137.66216	181.33560	189.52993	2.23935	0.2894575	0.12280966	4.0084920	21	2 23.8	22.3
316473 2010 VD_{17}	16.3	X	324.15988	328.42736	117.83610	6.38534	0.1961497	0.18544862	3.0454652	21	12 8.8	19.5
316474 2010 VR_{24}	15.9	X	287.70157	249.76961	229.27928	3.41786	0.0621951	0.18117496	3.0931710	21	11 30.8	20.1
316475 2010 VQ_{29}	16.1	X	22.95063	31.61668	326.64939	3.58431	0.1925054	0.18177296	3.0863833	21	11 29.2	19.9
316476 2010 VT_{30}	14.9	X	216.03208	296.21869	205.25763	23.63251	0.0832782	0.17319432	3.1874762	21	9 26.3	19.8
316477 2010 VD_{36}	16.8	X	130.82254	259.92337	193.52320	8.37978	0.1295437	0.23930118	2.5694460	21	5 3.1	20.5
316478 2010 VW_{36}	16.1	X	290.00070	352.39447	128.24845	2.79040	0.1735119	0.18229376	3.0805021	21	11 23.2	19.7
316479 2010 VJ_{44}	16.1	X	320.59186	187.53071	239.30786	8.21024	0.0335649	0.18275818	3.0752812	21	11 12.4	20.1
316480 2010 VX_{46}	15.8	X	32.17746	285.92099	49.70291	10.82962	0.0725013	0.17276294	3.1927799	21	10 29.6	20.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
316481 2010 VN_{47}	15.8	X	20.04302	299.95302	54.57790	9.61359	0.0933716	0.17495468	3.1660590	21	11 7.5	19.9
316482 2010 VP_{47}	16.5	X	252.65802	318.27492	320.52651	2.77594	0.0608442	0.21337558	2.7735728	21	2 3.9	20.6
316483 2010 VD_{52}	16.0	X	198.78475	78.56078	113.80002	2.17948	0.1230272	0.17832474	3.1260432	21	11 8.5	20.9
316484 2010 VM_{61}	13.0	X	357.42876	94.60444	282.73735	5.99546	0.0515371	0.08476289	5.1325385	21	10 15.2	19.6
316485 2010 VV_{70}	16.2	X	89.30538	243.59750	105.02889	10.08821	0.1105029	0.19713479	2.9238867	21	—	—
316486 2010 VK_{71}	16.2	X	325.31972	203.43787	85.02533	13.31707	0.1604872	0.24090253	2.5580467	21	5 8.1	19.2
316487 2010 VT_{76}	16.1	X	272.43004	312.51915	210.49672	10.60016	0.0602614	0.19163019	2.9796146	21	—	—
316488 2010 VD_{77}	16.4	X	131.68523	322.71863	58.60389	6.78706	0.0647268	0.21325007	2.7746609	21	1 28.1	20.3
316489 2010 VB_{82}	15.9	X	107.52561	285.17597	254.73764	9.68499	0.0834008	0.23823371	2.5771156	21	7 20.7	19.6
316490 2010 VE_{85}	16.4	X	34.40746	145.21991	232.32833	3.01963	0.0729590	0.18444251	3.0565303	21	12 23.3	20.4
316491 2010 VZ_{86}	16.5	X	227.97032	4.94337	301.51379	3.83719	0.0561158	0.21709244	2.7418240	21	2 9.5	20.5
316492 2010 VJ_{93}	15.7	X	191.29322	353.23885	67.73958	4.70742	0.0724146	0.14410102	3.6032248	21	5 27.3	21.0
316493 2010 VM_{97}	16.4	X	306.15050	31.94093	61.24557	1.98623	0.0442971	0.18204103	3.0833526	21	11 25.3	20.4
316494 2010 VX_{97}	16.7	X	244.97426	83.06731	246.33202	3.13883	0.0504015	0.22983396	2.6395299	21	3 27.4	20.3
316495 2010 VV_{99}	17.1	X	171.10671	310.61299	321.59989	6.93104	0.1124667	0.28990669	2.2609826	21	—	—
316496 2010 VT_{102}	16.2	X	53.59605	165.83076	213.76245	2.35652	0.0309748	0.18904435	3.0067241	21	—	—
316497 2010 VG_{103}	15.6	X	79.57007	254.13166	66.43398	11.20974	0.0679222	0.18171530	3.0870361	21	12 7.4	20.0
316498 2010 VK_{104}	16.3	X	13.87011	196.03710	194.29149	1.81828	0.1938794	0.18478520	3.0527501	21	12 27.3	19.9
316499 2010 VC_{111}	15.6	X	292.92249	270.71515	173.21879	11.36257	0.0777460	0.17876506	3.1209079	21	10 25.5	19.8
316500 2010 VF_{112}	16.2	X	65.49595	195.92389	160.98947	1.64970	0.1756814	0.19050161	2.9913711	21	—	—
316501 2010 VB_{113}	16.5	X	324.37198	165.56186	134.31476	3.00882	0.1675071	0.24295201	2.5436404	21	5 18.1	19.1
316502 2010 VC_{116}	16.8	X	199.92249	52.16681	313.77357	5.06750	0.0673526	0.22561456	2.6723375	21	3 21.5	20.8
316503 2010 VN_{117}	14.9	X	221.61792	241.94201	264.63644	14.71074	0.0722203	0.17028806	3.2236404	21	10 5.5	19.9
316504 2010 VU_{117}	15.6	X	2.76763	335.56626	24.82636	8.93830	0.0431280	0.17108670	3.2136005	21	10 16.3	19.8
316505 2010 VY_{130}	15.2	X	236.80019	82.20944	63.81904	17.86513	0.0757797	0.17844623	3.1246242	21	11 2.4	19.8
316506 2010 VC_{136}	16.5	X	124.28877	115.38211	214.31948	1.08497	0.0681342	0.19739519	2.9213146	21	—	—
316507 2010 VK_{143}	16.2	X	123.28076	183.97658	114.40827	5.94538	0.1115115	0.19149797	2.9809860	21	—	—
316508 2010 VD_{144}	13.1	X	307.75936	344.47438	84.79657	10.68691	0.0977974	0.08365938	5.1775735	21	10 14.9	19.7
316509 2010 VW_{152}	16.4	X	113.41241	258.81865	98.29407	3.24102	0.0747422	0.20094327	2.8868246	21	—	—
316510 2010 VT_{153}	16.2	X	251.01689	229.06309	58.53201	9.48220	0.0682760	0.21985218	2.7188309	21	2 15.3	20.3
316511 2010 VT_{156}	15.5	X	292.09383	69.15166	31.10420	9.67405	0.0609458	0.17886228	3.1197769	21	11 11.7	19.8
316512 2010 VL_{160}	17.1	X	174.05049	239.78425	0.61623	6.45178	0.0995851	0.28246636	2.3005141	21	12 29.6	20.4
316513 2010 VT_{160}	16.8	X	221.81586	314.90010	354.67595	2.00029	0.0469945	0.21716492	2.7412139	21	2 7.8	20.6
316514 2010 VM_{162}	16.0	X	112.38515	62.68311	287.25973	4.67158	0.0735497	0.19833401	2.9120886	21	—	—
316515 2010 VX_{162}	16.5	X	299.08847	315.24741	277.97593	3.76246	0.0984380	0.21440176	2.7647158	21	1 26.6	20.2
316516 2010 VL_{164}	15.3	X	305.16706	145.68127	245.80745	19.80063	0.1207649	0.16417020	3.3032378	21	8 18.1	20.1
316517 2010 VD_{167}	16.9	X	233.05970	214.04999	55.80628	5.52032	0.0199023	0.20935885	2.8089360	21	1 5.2	21.0
316518 2010 VR_{168}	15.8	X	191.06011	181.59795	59.94546	11.55134	0.0413346	0.18834605	3.0141512	21	—	—
316519 2010 VO_{169}	15.9	X	150.19908	77.94486	215.04667	1.26466	0.0663544	0.19200672	2.9757179	21	—	—
316520 2010 VD_{182}	15.4	X	226.58939	305.73983	239.29808	14.50783	0.1634208	0.17736542	3.1373050	21	11 22.5	20.0
316521 2010 VZ_{192}	16.3	X	124.15233	284.58229	63.90970	7.04320	0.0950993	0.20222666	2.8745979	21	—	—
316522 2010 VP_{193}	15.3	X	192.03565	225.61172	123.80930	3.21796	0.0735549	0.12655473	3.9290159	21	3 8.4	21.1
316523 2010 VL_{195}	15.8	X	315.93548	169.24625	300.96249	9.67894	0.0490895	0.18761190	3.0220093	21	12 30.9	19.9
316524 2010 VE_{196}	15.2	X	24.11855	242.98420	120.43272	27.67299	0.2134334	0.18213045	3.0823433	21	12 16.5	19.4
316525 2010 VN_{200}	15.6	X	298.57200	88.81001	346.65335	8.86777	0.0558448	0.17495200	3.1660914	21	10 18.8	20.0
316526 2010 VX_{200}	15.9	X	303.80562	126.01243	324.74515	10.06479	0.1614291	0.17885795	3.1198273	21	11 2.7	19.8
316527 2010 VW_{201}	14.9	X	302.23901	292.52719	167.45318	26.54883	0.1603197	0.17920028	3.1158527	21	11 21.3	19.2
316528 2010 VC_{202}	13.1	X	49.62378	257.63319	81.43753	14.67725	0.0270029	0.08317082	5.1978300	21	11 8.2	20.0
316529 2010 WM	16.6	X	50.88499	290.64850	222.55813	1.42196	0.0067518	0.22349459	2.6892100	21	3 21.1	20.1
316530 2010 WK_{4}	16.8	X	113.60198	211.12733	51.28205	7.43973	0.1042130	0.27221331	2.3579240	21	11 21.1	20.3
316531 2010 WL_{12}	16.7	X	260.27529	207.41158	330.88596	9.17343	0.0254050	0.19091714	2.9870290	21	—	—
316532 2010 WC_{17}	16.2	X	180.09934	258.24696	7.73978	3.01452	0.1303720	0.19224679	2.9732402	21	—	—
316533 2010 WB_{29}	15.1	X	217.90350	342.19820	112.16295	10.16702	0.1081964	0.15607321	3.4165187	21	8 2.0	20.4
316534 2010 WF_{32}	16.2	X	332.16559	331.07437	69.59038	2.17264	0.0322856	0.17275202	3.1929145	21	10 25.8	20.4
316535 2010 WA_{34}	16.1	X	226.92367	154.19052	84.17366	3.05554	0.0618388	0.19536521	2.9415161	21	—	—
316536 2010 WT_{35}	14.4	X	298.61254	350.64376	105.82081	2.97334	0.1223982	0.08304204	5.2032024	21	10 27.0	20.9
316537 2010 WP_{58}	13.5	X	286.58993	31.13751	75.38647	10.15250	0.0532971	0.08200709	5.2468880	21	11 2.4	20.3
316538 2010 WG_{67}	13.1	X	300.14314	41.63465	61.84263	12.64373	0.0794486	0.08382459	5.1707683	21	11 10.8	19.8
316539 2010 WN_{68}	15.3	X	36.22992	179.19391	345.97956	2.26124	0.0973295	0.12307917	4.0026382	21	4 4.8	20.5
316540 2010 WZ_{70}	16.6	X	197.98664	280.58589	31.32601	3.90846	0.0844733	0.21401495	2.7680460	21	1 17.5	20.7
316541 2010 WV_{72}	15.9	X	65.81047	100.16031	218.32446	4.63209	0.1542171	0.18229353	3.0805047	21	12 1.3	20.4
316542 2010 XJ_{21}	15.0	X	250.98144	0.56377	46.87027	12.30046	0.0381433	0.15185277	3.4795326	21	7 21.7	20.2
316543 2010 XG_{35}	16.3	X	258.50083	45.10342	239.16086	9.90947	0.1412396	0.22464352	2.6800329	21	2 4.6	20.7
316544 2010 XJ_{47}	16.6	X	159.36620	287.90832	60.71818	6.24196	0.0441310	0.21245487	2.7815802	21	1 17.3	20.5
316545 2010 XX_{47}	16.9	X	254.88061	111.32756	174.33166	3.73960	0.0457463	0.22119293	2.7078331	21	2 14.1	20.8
316546 2010 XY_{66}	15.9	X	164.50938	175.26661	120.76334	3.81814	0.0546601	0.19397150	2.9555894	21	—	—
316547 2010 XP_{68}	14.9	X	307.79802	0.95591	59.68303	17.31716	0.0676993	0.16901045	3.2398658	21	10 20.9	19.4
316548 2010 XR_{72}	15.0	X	46.34552	249.40675	93.01427	17.36006	0.0927790	0.17723365	3.1388599	21	11 30.2	19.5
316549 2010 XD_{78}	15.5	X	311.51672	272.78219	175.01065	9.61588	0.0680725	0.17872326	3.1213945	21	11 25.5	19.7
316550 2010 XE_{81}	12.8	X	280.41746	194.55846	286.99359	21.24784	0.0665197	0.08377020	5.1730064	21	11 2.5	19.8
316551 2010 XA_{84}	13.8	X	293.90003	283.28201	191.11065	7.21885	0.0639229	0.08326319	5.1939851	21	11 16.7	20.5
316552 2010 XF_{87}	13.5	X	251.60222	90.50155	64.71688	8.54396	0.0328009	0.08291144	5.2086647	21	11 17.3	20.4
316553 2010 YT_{1}	12.8	X	310.43263	178.25391	262.26201	15.44688	0.0691868	0.08087252	5.2958468	21	10 24.8	19.7
316554 2011 AU_{49}	17.0	X	1.76124	35.47688	34.73332	2.11967	0.1054385	0.17945589	3.1128933	21	—	—
316555 2011 AY_{77}	15.4	X	313.75336	320.99732	150.75931	28.38425	0.1833553	0.17263490	3.1943584	21	12 22.1	19.6
316556 2011 BD_{102}	15.6	X	134.04371	320.73525	358.49921	9.32520	0.0859636	0.17806599	3.1290709	21	—	—
316557 2011 CD_{3}	15.7	X	338.11250	29.51650	126.57444	8.37071	0.1519502	0.18541530	3.0458301	21	—	—
316558 2011 CR_{29}	17.1	X	217.48656	8.26354	184.27415	0.92832	0.1326151	0.25949439	2.4343559	21	12 8.7	20.4
316559 2011 DZ_{51}	16.5	X	164.23673	252.63775	188.94241	6.58632	0.0382218	0.21521626	2.7577359	21	5 19.7	20.4
316560 2011 EZ_{22}	17.2	X	253.96475	133.63121	41.48903	1.68851	0.1131796	0.26034594	2.4290447	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
316561 2011 EN_{28}	16.9	X	95.62000	12.74287	100.24853	4.94461	0.0321016	0.29243565	2.2479286	21	3 25.0	19.5
316562 2011 FB_{45}	16.7	X	13.67273	193.48366	111.31678	2.24971	0.2255590	0.21872692	2.7281478	21	9 14.2	19.1
316563 2011 FL_{56}	16.4	X	68.42277	93.68217	115.48688	8.40111	0.1610002	0.21241166	2.7819574	21	7 22.7	20.0
316564 2011 FJ_{88}	17.2	X	64.13620	40.38611	204.82407	1.65533	0.0558122	0.22281131	2.6947050	21	8 17.9	20.7
316565 2011 FG_{131}	16.4	X	113.90290	218.54118	213.33493	1.00047	0.1275748	0.19757902	2.9195024	21	3 19.3	20.4
316566 2011 GN_{67}	16.3	X	356.83757	164.35405	115.16484	5.46942	0.0286249	0.21164608	2.7886621	21	6 25.8	19.8
316567 2011 GY_{77}	15.8	X	288.46531	335.43193	277.21516	6.02883	0.1209212	0.18268295	3.0761254	21	2 8.3	20.3
316568 2011 GZ_{77}	17.1	X	295.25190	124.11172	80.43708	4.33450	0.0723528	0.27150810	2.3620052	21	—	—
316569 2011 MD_{4}	17.7	X	8.09004	21.04075	267.97983	4.58396	0.1679925	0.29516955	2.2340266	21	8 4.6	19.1
316570 2011 QE_{67}	17.2	X	88.28743	61.86600	309.05582	7.77276	0.1577087	0.23297014	2.6157880	21	—	—
316571 2011 RA_{19}	16.9	X	93.99397	334.34141	343.37342	3.80613	0.1135191	0.21520565	2.7578265	21	12 31.0	21.2
316572 2011 SW_{24}	16.2	X	215.46174	279.32972	179.69589	25.11906	0.2522584	0.17958730	3.1113747	21	7 24.3	22.0
316573 2011 SM_{47}	15.4	X	341.91086	257.72356	90.16956	10.66681	0.0901584	0.19402390	2.9550572	21	9 7.9	19.2
316574 2011 SX_{105}	15.3	X	316.74391	206.98646	233.62706	14.93197	0.2795488	0.20393541	2.8585182	21	11 12.9	17.4
316575 2011 SL_{116}	16.2	X	284.02895	238.62050	136.99893	5.84552	0.1210931	0.18361677	3.0656870	21	7 8.5	20.4
316576 2011 SS_{116}	17.1	X	259.26276	356.81158	336.53432	2.17363	0.2091752	0.26799177	2.3826216	21	3 30.6	20.7
316577 2011 SB_{210}	17.4	X	262.61589	216.40230	139.87240	6.95571	0.1452871	0.27139544	2.3626589	21	5 12.8	20.8
316578 2011 SV_{254}	17.3	X	177.11611	281.18759	170.41816	5.09417	0.0725799	0.27669110	2.3324155	21	6 15.7	20.3
316579 2011 TD_{5}	16.7	X	39.23864	78.11871	324.18970	11.16583	0.1632390	0.21633679	2.7482050	21	—	—
316580 2011 TR_{5}	16.4	X	29.02130	104.37518	247.65857	4.87785	0.0982767	0.20373211	2.8604194	21	11 21.9	20.2
316581 2011 TX_{14}	15.7	X	265.01726	286.08043	124.21566	10.27861	0.3287592	0.18113824	3.0935890	21	7 2.9	20.7
316582 2011 US_{13}	15.9	X	15.85275	288.26854	351.02017	10.66649	0.0618624	0.17750225	3.1356926	21	7 27.3	20.1
316583 2011 UU_{25}	16.4	X	286.56450	250.81823	145.30493	0.88663	0.0363700	0.18076662	3.0978274	21	8 20.3	20.7
316584 2011 UJ_{61}	16.4	X	325.06724	308.11065	228.73445	10.87866	0.1325821	0.22196025	2.7015888	21	—	—
316585 2011 UV_{80}	15.8	X	9.95077	302.89515	44.40807	12.81944	0.1527087	0.19337094	2.9617058	21	10 24.8	19.1
316586 2011 UV_{146}	15.8	X	231.07084	357.70352	245.74148	11.26589	0.1153703	0.21799601	2.7342425	21	—	—
316587 2011 UH_{157}	16.7	X	43.26650	21.42718	65.93323	10.32957	0.1721753	0.22309556	2.6924156	21	—	—
316588 2011 UA_{159}	16.4	X	185.59128	32.50875	16.51225	24.03098	0.1945009	0.26332745	2.4106748	21	4 25.1	20.6
316589 2011 UQ_{162}	15.0	X	26.63657	212.67436	74.38256	12.43041	0.0399637	0.17512026	3.1640630	21	8 21.9	19.5
316590 2011 UX_{162}	16.8	X	300.79847	310.42020	41.65627	7.61798	0.1675118	0.27781452	2.3261234	21	6 21.9	19.4
316591 2011 UA_{172}	15.8	X	328.13669	357.06436	329.93347	8.96440	0.1937456	0.18298053	3.0727894	21	7 2.9	19.4
316592 2011 US_{173}	15.6	X	173.50722	11.98293	194.89851	17.23577	0.0550645	0.19866483	2.9088549	21	11 7.4	20.0
316593 2011 UY_{186}	17.7	X	55.29461	193.66574	131.25083	5.09417	0.1527054	0.30433432	2.1889479	21	12 19.0	20.6
316594 2011 UL_{190}	16.1	X	82.32567	8.05126	53.80212	29.57813	0.1178449	0.22869226	2.6483075	21	1 19.1	19.9
316595 2011 UV_{198}	16.6	X	240.34249	337.86991	103.07082	2.22367	0.1358301	0.17389627	3.1788927	21	8 6.7	21.3
316596 2011 UR_{200}	15.5	X	242.48521	287.96467	261.04906	17.14588	0.1301038	0.20293727	2.8678835	21	12 22.7	19.4
316597 2011 UT_{206}	15.5	X	118.04923	146.96186	231.21203	27.65578	0.1775835	0.23098861	2.6307264	21	1 9.7	19.6
316598 2011 UW_{289}	15.9	X	162.87960	297.12723	190.88007	19.55690	0.0667439	0.17429984	3.1739840	21	7 14.6	21.1
316599 2011 UX_{311}	16.6	X	352.77779	107.86589	226.55785	1.35029	0.1058622	0.18538138	3.0462016	21	8 31.8	20.3
316600 2011 UC_{331}	16.3	X	227.82685	169.88572	79.09997	5.63338	0.0551145	0.22359415	2.6884116	21	—	—
316601 2011 UQ_{337}	16.4	X	140.83377	247.68124	101.08268	6.74955	0.0390990	0.23664670	2.5886247	21	—	—
316602 2011 US_{338}	15.8	X	68.19579	42.52845	209.27140	11.41087	0.0984771	0.18285817	3.0741600	21	9 1.7	20.3
316603 2011 UJ_{359}	16.4	X	135.17864	347.33158	325.57142	4.24974	0.0549450	0.21399284	2.7682367	21	—	—
316604 2011 VG_{5}	14.6	X	189.80177	121.49748	253.17256	16.92016	0.0855710	0.14773728	3.5438554	21	3 25.4	20.4
316605 2011 VM_{16}	16.3	X	284.26115	93.25574	48.17365	4.94527	0.0156184	0.21004458	2.8028191	21	—	—
316606 2011 VZ_{18}	16.4	X	49.81339	212.67225	215.82974	4.78667	0.0290179	0.22426293	2.6830641	21	—	—
316607 2011 WC_{3}	15.8	X	38.71400	249.19672	62.76190	4.26749	0.0763184	0.18403121	3.0610827	21	10 11.2	19.9
316608 2011 WC_{10}	16.0	X	61.62494	248.40429	69.99029	3.04533	0.0745643	0.19639793	2.9311954	21	11 17.9	20.1
316609 2011 WU_{16}	17.0	X	329.61960	308.52038	67.63623	8.39675	0.1469731	0.28779023	2.2720542	21	10 8.9	18.9
316610 2011 WK_{27}	16.4	X	43.78877	197.27903	228.83717	11.92084	0.0845737	0.21874767	2.7279752	21	—	—
316611 2011 WA_{30}	15.8	X	175.46020	315.14076	17.89691	13.26320	0.2873998	0.23904563	2.5712769	21	2 1.9	20.5
316612 2011 WS_{35}	16.7	X	117.22080	69.27018	62.87604	7.58641	0.0679334	0.26030065	2.4293265	21	5 27.9	19.7
316613 2011 WV_{38}	17.1	X	82.75507	162.59711	244.09683	1.14717	0.2044528	0.22512180	2.6762356	21	1 9.1	19.8
316614 2011 WX_{41}	16.7	X	250.96110	282.92501	81.57473	9.45753	0.0771308	0.26297264	2.4128427	21	5 17.9	19.9
316615 2011 WO_{43}	16.3	X	90.06133	334.13396	66.77672	13.16450	0.1683437	0.22717066	2.6601200	21	1 8.0	19.5
316616 2011 WT_{43}	17.0	X	120.43866	175.20752	218.32322	3.97704	0.2283957	0.23341332	2.6124759	21	2 14.2	20.8
316617 2011 WJ_{46}	13.0	X	294.59004	17.21168	60.61541	11.03882	0.0565736	0.08441969	5.1464398	21	10 12.3	19.8
316618 2011 WJ_{57}	16.2	X	8.55756	75.01317	233.87015	9.25157	0.0728040	0.17602162	3.1532522	21	8 17.4	20.4
316619 2011 WU_{57}	15.4	X	148.83394	302.30397	240.24280	15.98440	0.0490237	0.17610158	3.1522977	21	8 30.9	20.4
316620 2011 WY_{63}	18.2	X	163.10711	90.23128	354.09600	1.88510	0.1908039	0.25457076	2.4656440	21	5 26.5	22.0
316621 2011 WN_{70}	16.7	X	301.58384	61.00389	332.95286	0.63646	0.1669940	0.18074370	3.0980894	21	8 20.4	20.6
316622 2011 WB_{71}	16.0	X	205.32620	5.98513	260.67593	8.00167	0.0988574	0.21877804	2.7277228	21	—	—
316623 2011 WH_{85}	16.5	X	17.32585	7.55795	92.00554	5.44130	0.0750031	0.21771764	2.7365725	21	—	—
316624 2011 WM_{88}	12.6	X	277.72627	185.23587	267.37183	13.57483	0.0578267	0.08287739	5.2100913	21	9 28.7	19.6
316625 2011 WF_{89}	16.7	X	38.72288	140.35546	275.15089	4.76975	0.0607775	0.21018310	2.8015875	21	—	—
316626 2011 WT_{90}	13.5	X	242.23996	254.41905	236.43962	5.00594	0.0475816	0.08400431	5.1633911	21	10 8.2	20.5
316627 2011 WH_{100}	17.2	X	334.92554	260.04727	83.27107	8.14409	0.1539500	0.28251250	2.3002636	21	8 24.1	19.1
316628 2011 WL_{112}	16.5	X	49.47286	18.59448	48.26729	10.56948	0.1944543	0.21927488	2.7236008	21	—	—
316629 2011 WR_{113}	12.8	X	341.46855	124.46415	268.36066	8.52107	0.0495737	0.08479414	5.1312772	21	10 12.0	19.5
316630 2011 WF_{114}	16.0	X	123.46247	289.37841	123.03155	14.28253	0.1503563	0.23934123	2.5691593	21	3 7.7	19.7
316631 2011 WY_{114}	14.8	X	204.55286	287.19198	85.93730	11.03825	0.1140180	0.14919407	3.5207485	21	4 17.8	20.4
316632 2011 WS_{116}	16.1	X	84.91790	273.48342	134.49873	15.47645	0.1452200	0.23003902	2.6379610	21	1 4.7	19.3
316633 2011 WR_{119}	16.6	X	214.60642	160.33253	43.65368	2.58588	0.0059410	0.20451465	2.8531182	21	12 25.3	20.5
316634 2011 WK_{126}	17.4	X	93.66063	344.53778	96.99958	1.15734	0.1202486	0.23543336	2.5975109	21	2 27.3	20.4
316635 2011 XO	16.6	X	116.04845	229.54624	138.86394	6.37308	0.1644117	0.22542039	2.6738718	21	1 2.2	20.1
316636 2011 XY	16.7	X	203.70895	307.67945	87.68488	23.66320	0.1039360	0.35359872	1.9805946	21	5 6.2	19.7
316637 2011 XK_{1}	16.2	X	68.92901	173.25126	265.52217	13.00598	0.2205208	0.22557197	2.6726738	21	1 26.1	19.0
316638 2011 YA_{2}	17.1	X	257.99713	206.83290	156.57002	6.73268	0.1239252	0.26204142	2.4185557	21	5 19.7	20.5
316639 2011 YA_{22}	15.9	X	231.64474	258.63249	257.26218	9.06553	0.1202539	0.18221722	3.0813647	21	10 27.7	20.6
316640 2011 YA_{23}	15.9	X	336.33740	297.23720	92.89774	10.89408	0.1013933	0.18085964	3.0967652	21	10 23.2	19.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
316641 2011 YF_{23}	16.4	X	293.83927	357.23149	84.83764	8.06497	0.0575679	0.18131669	3.0915590	21	10 27.9	20.6
316642 2011 YU_{23}	16.7	X	323.97533	231.40982	99.66906	14.71507	0.2132685	0.26607331	2.3940608	21	6 25.5	18.5
316643 2011 YV_{25}	16.6	X	151.39309	55.52055	110.95194	6.25009	0.0674304	0.26366452	2.4086198	21	8 29.0	19.9
316644 2011 YE_{26}	15.8	X	311.64945	238.06203	292.60460	11.87047	0.1269866	0.20570072	2.8421403	21	—	—
316645 2011 YF_{35}	17.0	X	121.62065	32.68807	76.03360	3.57784	0.0949199	0.24124430	2.5556302	21	5 7.4	20.4
316646 2011 YS_{37}	17.5	X	222.36277	335.84274	124.45849	4.58778	0.1375295	0.26708223	2.3880279	21	8 15.8	20.8
316647 2011 YU_{38}	16.6	X	294.84026	302.79692	128.55890	11.81978	0.2892874	0.18028266	3.1033689	21	9 12.1	20.5
316648 2011 YU_{57}	15.4	X	271.71361	318.99574	105.07144	11.92065	0.1209215	0.16946494	3.2340704	21	8 26.9	20.0
316649 1019 $T{-}2$	17.0	X	76.24583	227.64487	163.59535	0.55876	0.3353075	0.21098679	2.7944685	21	1 1.8	19.5
316650 1987 UL	15.9	X	45.66919	301.48085	70.32118	8.06974	0.4097410	0.23715556	2.5849204	21	—	—
316651 1990 OL	15.8	X	5.46868	156.84695	150.31328	15.00127	0.4537323	0.22354133	2.6888351	21	10 15.6	17.7
316652 1992 EK_{13}	17.1	X	36.94454	307.67530	203.56348	3.87073	0.1322738	0.27148697	2.3621278	21	2 18.9	19.2
316653 1993 BV_{8}	16.9	X	50.98900	139.31960	115.33125	7.95897	0.0331478	0.25935706	2.4352151	21	8 12.7	19.9
316654 1993 NF_{1}	15.8	X	292.55142	226.13235	115.45729	13.10326	0.3000859	0.24271663	2.5452846	21	5 11.6	19.6
316655 1993 TT_{7}	15.7	X	49.76105	359.30788	22.18684	11.96769	0.0639821	0.18100577	3.0950983	21	—	—
316656 1993 TQ_{10}	15.3	X	263.67856	194.31355	14.90270	11.78786	0.1747564	0.18643312	3.0347343	21	—	—
316657 1993 TQ_{22}	17.3	X	355.09726	354.18966	28.76489	4.98941	0.1939448	0.28410886	2.2916390	21	12 13.0	19.2
316658 1993 TC_{46}	15.8	X	245.24346	191.47030	185.17137	14.02113	0.2183586	0.23709824	2.5853370	21	5 15.6	20.2
316659 1993 UV_{1}	17.0	X	27.83938	330.67315	221.49062	8.71984	0.0330457	0.23235031	2.6204380	21	4 9.2	20.3
316660 1993 YM_{1}	17.0	X	190.18875	254.20069	188.00262	0.72845	0.1643475	0.23462963	2.6034394	21	6 18.0	21.1
316661 1994 JZ_{3}	17.3	X	244.63203	68.40703	225.32364	6.54904	0.1294488	0.28419150	2.2911947	21	1 27.2	20.8
316662 1994 SZ_{1}	17.2	X	29.93442	280.75006	43.74093	3.05469	0.1854054	0.25765466	2.4459301	21	11 10.7	20.0
316663 1994 SV_{11}	16.0	X	84.77599	6.04838	31.02433	5.66666	0.0391961	0.19531752	2.9419949	21	—	—
316664 1995 BU_{11}	18.3	X	182.10789	145.00828	350.90067	2.29075	0.1446790	0.27903647	2.3193275	21	8 20.9	21.8
316665 1995 DD_{6}	18.0	X	295.05666	329.26314	157.54239	5.99296	0.1164977	0.28953819	2.2629006	21	—	—
316666 1995 DG_{10}	15.9	X	177.66061	72.63261	163.94853	8.64997	0.1989759	0.17338475	3.1851419	21	12 6.6	21.4
316667 1995 FG_{4}	15.5	X	231.68912	73.98904	163.47751	15.31693	0.0700908	0.18015460	3.1048394	21	—	—
316668 1995 OT_{10}	17.4	X	36.84909	318.63025	319.06224	6.24776	0.1145084	0.30410565	2.1900451	21	9 7.2	19.5
316669 1995 OE_{16}	16.8	X	339.75572	0.24963	232.60059	4.21797	0.1031201	0.21853693	2.7297287	21	3 19.4	20.1
316670 1995 QE_{14}	16.8	X	282.17716	142.59639	238.50352	5.08360	0.0529018	0.22600543	2.6692554	21	7 23.3	20.4
316671 1995 RN	16.3	X	178.14087	27.91233	230.16901	6.52983	0.1420178	0.24043604	2.5613544	21	—	—
316672 1995 SD_{20}	17.2	X	74.07993	192.67690	181.60167	1.92274	0.1244074	0.23725753	2.5841797	21	—	—
316673 1995 ST_{22}	18.0	X	282.85312	36.84936	23.85026	6.52145	0.1257447	0.26386660	2.4073899	21	9 13.6	20.6
316674 1995 SH_{25}	16.0	X	248.33111	52.74433	105.42822	3.23724	0.0440277	0.19509573	2.9442242	21	12 3.6	19.9
316675 1995 SO_{48}	16.6	X	6.61587	221.69201	156.42599	3.78993	0.1934526	0.23086785	2.6316436	21	12 12.4	19.3
316676 1995 SM_{63}	17.4	X	241.50929	343.10192	201.55964	4.57803	0.0958695	0.27306834	2.3529994	21	—	—
316677 1995 TU_{11}	16.4	X	165.47149	315.84398	196.09944	5.13306	0.0841026	0.18252697	3.0778777	21	8 18.2	21.1
316678 1995 UO_{12}	17.0	X	195.19228	251.15239	18.25529	6.81057	0.2158394	0.27943031	2.3171477	21	—	—
316679 1995 UD_{16}	16.4	X	10.28663	285.57393	86.85791	3.56679	0.1950865	0.19048848	2.9915085	21	11 30.5	19.8
316680 1995 UM_{20}	16.9	X	132.48283	9.70414	335.33418	1.34483	0.0766605	0.20208030	2.8759858	21	—	—
316681 1995 UO_{58}	17.2	X	196.05298	100.54531	230.63245	3.91292	0.1864021	0.28440899	2.2900265	21	1 30.1	20.8
316682 1995 US_{61}	17.7	X	29.81909	262.89808	353.87501	3.68101	0.0217002	0.29548845	2.2324190	21	7 13.5	20.2
316683 1995 UJ_{80}	17.6	X	174.12726	108.66856	19.90801	1.59908	0.1164578	0.25771086	2.4455746	21	8 2.6	21.3
316684 1995 VT_{11}	17.2	X	115.16957	213.70630	131.23464	3.55306	0.2244408	0.23886378	2.5725818	21	—	—
316685 1996 AS_{10}	16.3	X	311.41382	252.46199	275.29100	3.67669	0.0551255	0.19259508	2.9696545	21	—	—
316686 1996 BX_{9}	16.8	X	35.51430	141.67608	192.92278	5.81012	0.0488420	0.21930665	2.7233378	21	11 5.6	20.3
316687 1996 BX_{12}	17.2	X	118.83895	42.90245	335.66065	25.15609	0.2392323	0.31253955	2.1504667	21	1 19.4	19.9
316688 1996 BE_{14}	16.1	X	145.83103	93.38295	107.00807	8.72616	0.2443804	0.17674109	3.1446889	21	10 6.2	21.7
316689 1996 EX_{5}	15.5	X	309.80324	192.90148	152.00694	3.47475	0.2060316	0.24644087	2.5195765	21	6 20.8	18.2
316690 1996 EA_{8}	16.7	X	27.59215	206.92344	167.17970	6.67009	0.0209857	0.21975636	2.7196212	21	12 11.6	20.5
316691 1996 GQ_{5}	18.0	X	227.65653	190.24759	77.34625	3.58780	0.1261105	0.30421892	2.1895014	21	—	—
316692 1996 GX_{5}	13.3	X	91.02487	108.64228	48.22805	9.37493	0.0539205	0.08486523	5.1284113	21	5 31.9	20.1
316693 1996 JU_{4}	13.3	X	139.39539	31.75077	91.90455	13.07816	0.0400380	0.08255858	5.2234956	21	6 15.9	20.2
316694 1996 TW_{1}	16.9	X	168.29178	222.29378	131.68666	1.82800	0.2296937	0.25630466	2.4545114	21	2 10.6	20.8
316695 1996 TE_{9}	18.8	X	105.10610	3.93132	13.87205	21.63313	0.3260643	0.41037735	1.7934136	21	—	—
316696 1996 TG_{17}	17.0	X	291.95743	167.37515	233.76859	4.47795	0.2343806	0.27370679	2.3493389	21	8 7.3	19.5
316697 1996 TE_{26}	15.7	X	78.15982	282.51724	239.80254	8.28765	0.0499263	0.18514382	3.0488068	21	5 17.9	19.7
316698 1996 TF_{30}	17.6	X	2.28117	296.25641	35.46349	3.99918	0.2396674	0.27479352	2.3431408	21	10 13.7	19.0
316699 1996 TR_{46}	15.9	X	357.65570	78.15226	222.36441	10.58242	0.1090241	0.18993327	2.9973354	21	7 22.1	19.7
316700 1996 VQ_{9}	16.5	X	229.04845	226.78725	120.29620	7.51401	0.0680587	0.21877757	2.7277267	21	4 5.5	20.6
316701 1996 VQ_{14}	18.2	X	234.89093	258.87048	212.37599	0.69724	0.1336111	0.27136850	2.3628152	21	9 14.2	21.2
316702 1996 VH_{18}	16.9	X	327.87094	282.82103	130.77791	6.47490	0.0849867	0.27650968	2.3334356	21	11 26.5	19.3
316703 1996 VF_{26}	16.8	X	54.97210	210.42196	105.00560	8.79066	0.1408043	0.23701967	2.5859083	21	11 24.1	20.3
316704 1996 XT_{3}	17.2	X	123.09128	98.23080	47.29837	21.93705	0.0997951	0.38283484	1.8784303	21	6 23.0	19.6
316705 1996 XA_{16}	17.6	X	9.75202	112.41178	251.25900	5.57057	0.1322400	0.27659130	2.3329765	21	11 29.4	20.0
316706 1996 XA_{20}	17.4	X	274.19141	298.36227	133.11418	2.95906	0.1765188	0.27053770	2.3676501	21	9 5.8	19.9
316707 1997 CP_{11}	17.6	X	257.13552	93.50381	313.81230	5.40263	0.2433417	0.26491471	2.4010359	21	7 1.2	21.2
316708 1997 EU_{26}	17.2	X	304.17772	116.12975	7.68038	3.05747	0.0409774	0.23115810	2.6294403	21	—	—
316709 1997 EE_{60}	16.0	X	202.18671	42.48918	166.78897	8.81638	0.2932716	0.18869722	3.0104104	21	11 22.0	21.3
316710 1997 GQ_{2}	17.4	X	121.32925	236.86125	14.28974	2.20232	0.1797598	0.26287457	2.4134427	21	11 16.7	21.2
316711 1997 GA_{5}	17.9	X	315.40813	27.74580	48.98355	22.11735	0.0863488	0.38800578	1.8617038	21	—	—
316712 1997 SD_{3}	16.7	X	243.38455	19.59768	356.28098	7.52803	0.1975259	0.23626093	2.5914417	21	5 9.9	20.9
316713 1997 SA_{8}	17.3	X	48.41654	85.71723	343.81030	5.46064	0.1677399	0.25906295	2.4370579	21	—	—
316714 1997 SB_{13}	17.9	X	30.93622	231.97122	174.13821	5.79092	0.1459380	0.29823733	2.2186802	21	—	—
316715 1997 TO_{20}	17.5	X	141.52482	43.71013	26.69638	4.12879	0.1811820	0.22750404	2.6575206	21	4 19.7	21.5
316716 1997 WS_{6}	17.7	X	338.22438	91.36194	216.72155	5.27260	0.1226363	0.27855340	2.3220082	21	6 29.9	19.9
316717 1997 WN_{20}	17.2	X	145.65054	304.84673	88.25129	3.81969	0.0774881	0.22324561	2.6912090	21	2 28.0	21.0
316718 1997 XM_{3}	15.9	X	333.87594	285.79763	104.07301	7.65566	0.2345311	0.24161985	2.5529814	21	10 29.4	17.8
316719 1997 YY_{13}	15.6	X	240.90276	219.91808	297.81878	4.94430	0.1670873	0.24109012	2.5567196	21	11 12.4	19.0
316720 1998 BE_{7}	14.6	X	125.17172	303.15368	99.52226	15.00010	0.5157782	0.18338142	3.0683094	21	4 10.5	20.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
316721 1998 BB_{20}	17.1	X	180.07599	121.12720	292.44109	2.75265	0.0904937	0.22478219	2.6789305	21	4 30.9	21.1
316722 1998 DQ_{17}	16.9	X	230.63012	46.08924	144.22741	6.58215	0.1090395	0.28373809	2.2936349	21	12 30.9	19.8
316723 1998 DV_{21}	17.1	X	3.59388	186.07937	7.22388	2.81741	0.1881034	0.21452053	2.7636952	21	2 27.9	19.7
316724 1998 FX_{132}	16.2	X	169.90377	287.12094	354.38439	24.37500	0.2477231	0.28253497	2.3001416	21	—	—
316725 1998 HC_{4}	17.0	X	103.01815	207.51926	165.86182	7.00502	0.1256406	0.28594745	2.2818052	21	—	—
316726 1998 HA_{7}	16.9	X	192.95729	29.21686	181.63730	24.44926	0.2111159	0.27816920	2.3241457	21	12 2.5	21.0
316727 1998 QF_{58}	16.0	X	32.14492	343.64288	353.25344	8.68099	0.0883660	0.17466721	3.1695319	21	10 28.9	20.3
316728 1998 QB_{60}	15.9	X	166.18754	140.16473	168.01337	10.14481	0.0902584	0.18768656	3.0212078	21	—	—
316729 1998 QU_{94}	15.9	X	195.45195	140.48335	205.46785	12.79188	0.1646253	0.23966999	2.5668093	21	2 19.1	20.3
316730 1998 RW_{2}	18.1	X	212.19598	37.64215	346.12172	0.86785	0.1297059	0.24447246	2.5330830	21	4 25.5	22.1
316731 1998 RG_{81}	16.1	X	57.88662	351.58643	358.06965	9.63147	0.0332124	0.17905232	3.1175690	21	12 11.1	20.7
316732 1998 SY_{20}	16.8	X	88.92404	274.32984	191.61391	4.96490	0.1605528	0.23646659	2.5899390	21	3 30.9	19.9
316733 1998 ST_{120}	15.7	X	104.43945	187.19105	167.11765	9.57183	0.1362934	0.18389165	3.0626313	21	—	—
316734 1998 SE_{125}	17.2	X	356.75608	173.86898	162.35641	4.25865	0.2297247	0.25654587	2.4529726	21	10 1.6	18.9
316735 1998 SR_{166}	16.4	X	171.79068	332.90222	40.40129	6.79117	0.3554106	0.23755933	2.5819906	21	3 18.7	21.2
316736 1998 UJ_{9}	15.5	X	17.96824	21.70921	11.15446	10.32476	0.0358146	0.17848275	3.1241980	21	12 14.1	19.9
316737 1998 UW_{9}	15.7	X	357.83660	217.88744	189.22755	7.97025	0.0732869	0.17733775	3.1376314	21	12 9.5	19.9
316738 1998 WB_{35}	16.9	X	270.30067	37.18814	308.51605	0.78306	0.1054927	0.20140615	2.8823999	21	5 14.8	21.1
316739 1998 WM_{38}	16.6	X	340.55420	300.08527	60.03088	4.28307	0.1082742	0.21019892	2.8014469	21	9 21.1	19.8
316740 1998 WG_{39}	16.5	X	88.76197	184.30641	176.67551	1.72028	0.0848162	0.22289443	2.6940350	21	—	—
316741 Janefletcher	15.0	X	76.23813	322.91949	333.98712	25.89085	0.1737033	0.17516192	3.1635613	21	11 6.6	20.3
316742 1998 XQ_{7}	15.8	X	276.59686	113.26930	232.45476	9.78812	0.1596356	0.20110953	2.8852334	21	5 15.4	20.0
316743 1999 AQ_{7}	15.8	X	107.78404	66.01950	75.10526	29.75582	0.3339753	0.23290236	2.6162954	21	6 28.1	20.3
316744 1999 AC_{31}	17.2	X	148.96940	291.69669	127.76703	5.50489	0.2792879	0.23303081	2.6153339	21	4 22.5	21.7
316745 1999 CM_{134}	16.0	X	242.01650	205.96791	143.12275	17.11396	0.2102441	0.23178770	2.6246765	21	4 12.7	20.6
316746 1999 FT_{81}	17.4	X	166.22377	138.59645	128.15616	5.87765	0.2213170	0.29200611	2.2501325	21	—	—
316747 1999 FC_{88}	16.6	X	85.85921	104.82235	30.31537	0.27549	0.0684578	0.18258085	3.0772720	21	4 26.2	20.6
316748 1999 GV_{62}	17.0	X	53.60384	110.69091	12.42381	13.68454	0.1380923	0.22180783	2.7028263	21	3 1.7	20.1
316749 1999 JQ_{7}	16.4	X	335.08157	157.28048	70.05624	16.62287	0.2284338	0.21979345	2.7193152	21	2 23.9	20.0
316750 1999 JG_{47}	16.5	X	342.59896	353.74170	226.63020	9.42841	0.2767213	0.21961153	2.7208168	21	2 6.5	19.7
316751 1999 JH_{91}	16.2	X	36.90786	97.95241	121.06816	11.60531	0.2922341	0.22658885	2.6646716	21	7 5.2	18.5
316752 1999 QV_{2}	18.6	X	149.66922	337.02067	151.44678	8.37281	0.0461660	0.39902033	1.8272839	21	6 30.9	20.4
316753 1999 RR_{7}	15.7	X	305.41876	126.73886	10.56865	9.83719	0.0319733	0.19036464	2.9928057	21	—	—
316754 1999 RN_{17}	16.8	X	101.19180	349.77112	325.37309	5.32352	0.2078512	0.28103517	2.3083178	21	—	—
316755 1999 RZ_{35}	16.9	X	313.46843	309.73279	43.07378	7.26586	0.1523507	0.26447438	2.4037003	21	7 21.2	19.4
316756 1999 RW_{44}	17.2	X	137.02502	144.22963	214.18782	4.74250	0.1849592	0.28914450	2.2649542	21	1 3.8	20.0
316757 1999 RK_{219}	16.9	X	318.04123	13.85650	332.53129	4.34050	0.1919538	0.31211297	2.1524257	21	7 13.1	18.5
316758 1999 RY_{246}	15.9	X	273.33922	200.59623	178.42853	15.04046	0.1217455	0.21797624	2.7344078	21	6 28.4	20.0
316759 1999 SV_{3}	14.9	X	77.71718	359.86975	343.41350	27.01423	0.3318955	0.19064540	2.9898667	21	—	—
316760 1999 SJ_{19}	17.2	X	32.28163	292.86870	9.01113	19.33171	0.0632264	0.35894915	1.9608638	21	10 6.9	18.8
316761 1999 TB_{23}	16.0	X	59.13895	36.60762	23.52603	12.11640	0.0496770	0.19424096	2.9528553	21	—	—
316762 1999 TK_{33}	16.5	X	122.95363	301.32698	9.30698	6.98602	0.1381139	0.28089408	2.3090907	21	—	—
316763 1999 TG_{41}	16.1	X	255.38021	236.51523	213.60216	13.09241	0.2545834	0.17045508	3.2215342	21	8 14.9	21.3
316764 1999 TG_{44}	17.4	X	308.89321	15.26104	350.98464	4.31126	0.1455562	0.26414601	2.4056920	21	8 2.9	19.9
316765 1999 TY_{44}	15.8	X	292.52602	84.51880	14.55230	16.30109	0.0887824	0.18127391	3.0920453	21	11 4.8	20.0
316766 1999 TW_{45}	17.6	X	300.71452	71.64239	294.90950	1.14349	0.1839212	0.26320676	2.4114117	21	7 11.5	20.2
316767 1999 TZ_{48}	16.8	X	338.92434	238.48760	172.47208	5.67745	0.1484246	0.18187766	3.0851987	21	11 19.9	20.4
316768 1999 TN_{49}	17.4	X	274.71778	246.05993	159.73393	3.05597	0.2298325	0.26370597	2.4083674	21	7 20.9	20.5
316769 1999 TD_{52}	16.2	X	251.97204	259.20084	12.11278	10.30829	0.0876506	0.19982482	2.8975866	21	1 28.8	20.7
316770 1999 TH_{52}	17.6	X	248.28246	180.13516	250.78244	2.00207	0.1712339	0.26203192	2.4186141	21	7 31.2	21.0
316771 1999 TT_{53}	17.6	X	320.99889	8.49787	353.01158	3.15100	0.1452492	0.26516607	2.3995184	21	8 19.1	19.7
316772 1999 TR_{72}	16.1	X	285.54110	46.44652	67.96467	6.98849	0.1283982	0.17988260	3.1079685	21	11 14.3	20.0
316773 1999 TB_{74}	17.7	X	334.87828	18.69067	320.76995	1.63404	0.2078222	0.26683123	2.3895252	21	8 6.9	19.1
316774 1999 TG_{79}	16.0	X	259.46019	313.39062	20.34520	9.37932	0.1865757	0.21068440	2.7971417	21	4 8.2	20.2
316775 1999 TU_{123}	17.1	X	267.94436	13.84508	317.95669	0.73369	0.1986101	0.25648637	2.4533520	21	4 8.5	20.7
316776 1999 TH_{134}	15.7	X	99.12371	187.72920	206.20752	8.43447	0.1389607	0.19547236	2.9404410	21	1 13.6	19.8
316777 1999 TB_{137}	15.8	X	341.82938	199.11715	193.77928	3.65322	0.1920216	0.18022236	3.1040612	21	10 31.7	19.1
316778 1999 TT_{139}	15.7	X	30.36439	42.99421	20.23665	10.15733	0.0874039	0.18896801	3.0075338	21	—	—
316779 1999 TP_{141}	16.9	X	122.06006	61.23534	248.31746	1.91092	0.1750072	0.28016473	2.3130965	21	—	—
316780 1999 TU_{148}	17.0	X	282.26735	227.69051	108.11951	2.43107	0.1988864	0.25897405	2.4376156	21	4 30.6	20.3
316781 1999 TJ_{150}	17.8	X	296.33330	143.38029	191.77682	3.95000	0.2428693	0.30614429	2.1803118	21	5 6.9	20.2
316782 1999 TL_{153}	16.7	X	263.05256	53.05193	1.52897	12.68214	0.1885802	0.26277482	2.4140535	21	7 29.7	20.1
316783 1999 TM_{154}	17.1	X	115.97370	168.73704	157.18835	1.50535	0.2445224	0.28190794	2.3035510	21	—	—
316784 1999 TV_{160}	15.7	X	220.50003	335.19480	359.16353	10.12699	0.1291151	0.20553678	2.8436514	21	3 8.7	20.1
316785 1999 TA_{166}	16.5	X	110.58387	89.42597	247.20816	4.55102	0.1647516	0.23725159	2.5842228	21	—	—
316786 1999 TV_{170}	15.7	X	288.83234	58.04134	22.52682	16.12675	0.2040297	0.17656880	3.1467343	21	9 28.8	19.7
316787 1999 TA_{172}	16.0	X	297.89593	221.34635	197.61274	10.13120	0.2479128	0.17407821	3.1766773	21	8 31.8	20.1
316788 1999 TP_{173}	17.3	X	342.53464	346.00923	326.84615	2.99020	0.2186005	0.30912031	2.1662955	21	7 10.7	18.2
316789 1999 TW_{179}	15.7	X	357.43782	228.58509	216.26563	8.32614	0.1031434	0.18816233	3.0161129	21	—	—
316790 1999 TS_{197}	15.4	X	286.60847	69.08792	33.89608	12.94662	0.2780065	0.17743535	3.1364807	21	10 11.5	19.4
316791 1999 TS_{201}	16.8	X	279.41831	115.83652	233.69216	2.02486	0.1905370	0.26074813	2.4265463	21	5 15.8	20.2
316792 1999 TU_{229}	16.7	X	26.74712	65.92999	338.15775	2.69695	0.1180505	0.18877589	3.0095740	21	—	—
316793 1999 TM_{237}	17.6	X	224.95768	197.79860	181.39916	3.09240	0.2037299	0.25585625	2.4573783	21	4 29.2	21.5
316794 1999 TU_{237}	17.4	X	253.47401	21.81370	25.60136	5.67191	0.2154896	0.26146751	2.4220935	21	6 30.7	21.0
316795 1999 TK_{243}	16.4	X	276.87877	166.53417	187.73054	8.26782	0.1608287	0.21570835	2.7535402	21	5 27.0	20.3
316796 1999 TW_{253}	17.3	X	349.49135	345.80208	353.83756	11.18013	0.1917948	0.26866600	2.3786337	21	9 16.4	18.8
316797 1999 TE_{259}	15.5	X	335.79988	49.02953	22.95368	18.73716	0.1319304	0.18346352	3.0673940	21	12 6.3	19.4
316798 1999 TL_{300}	16.1	X	343.41699	232.06338	185.10435	7.74184	0.0854800	0.18542258	3.0457504	21	12 3.9	20.0
316799 1999 US_{15}	16.0	X	38.95843	33.88742	47.79498	13.42239	0.2294267	0.23621553	2.5917738	21	—	—
316800 1999 UM_{27}	17.4	X	326.60045	344.17788	6.33351	6.29760	0.1420379	0.26641386	2.3920202	21	8 15.4	19.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
316801 1999 UB_{29}	16.2	X	354.99063	292.77365	40.56578	5.48435	0.1840776	0.22230975	2.6987566	21	9 14.1	18.7
316802 1999 UA_{32}	15.7	X	285.98710	129.35559	37.54985	10.81353	0.0434858	0.18893691	3.0078639	21	—	—
316803 1999 UK_{33}	16.2	X	284.84249	236.46751	212.36967	6.64042	0.1217764	0.17789119	3.1311203	21	10 11.3	20.4
316804 1999 UF_{35}	16.4	X	63.58557	301.51264	57.96818	2.18221	0.1209757	0.18606680	3.0387161	21	—	—
316805 1999 VB_{63}	17.4	X	254.39928	342.68232	53.11096	3.44263	0.1835098	0.25907223	2.4369997	21	6 19.3	20.9
316806 1999 VL_{73}	17.2	X	221.56032	283.13276	192.08219	5.56655	0.0844895	0.26556508	2.3971143	21	9 8.0	20.4
316807 1999 VK_{99}	16.2	X	23.85575	150.66310	217.75966	5.38350	0.0632753	0.22609825	2.6685248	21	12 6.0	19.6
316808 1999 VX_{99}	17.1	X	40.37117	159.49344	207.67549	2.67806	0.1527425	0.22903868	2.6456364	21	—	—
316809 1999 VQ_{106}	16.1	X	296.85212	184.73108	230.18205	7.29390	0.1635152	0.17288137	3.1913217	21	9 6.1	20.3
316810 1999 VE_{109}	15.4	X	84.97839	86.49218	236.83598	8.91750	0.2062210	0.18302236	3.0723212	21	12 30.4	20.4
316811 1999 VF_{121}	17.2	X	3.65225	299.77978	16.94874	1.96397	0.0438693	0.21836636	2.7311500	21	8 27.3	20.5
316812 1999 VY_{129}	16.0	X	319.51112	200.18509	226.95810	9.31976	0.0892731	0.18018745	3.1044621	21	11 8.4	19.9
316813 1999 VT_{161}	17.4	X	235.12552	12.32618	23.21143	3.65262	0.2801653	0.25685153	2.4510262	21	5 22.7	21.6
316814 1999 VC_{165}	17.4	X	284.01673	351.14738	28.60212	5.67179	0.2405259	0.26138495	2.4226034	21	6 25.3	20.5
316815 1999 VO_{167}	17.1	X	227.58071	340.20584	47.77755	8.07189	0.2682064	0.25476459	2.4643932	21	5 8.7	21.3
316816 1999 VH_{206}	15.9	X	24.69784	143.11879	226.94453	8.83224	0.0225800	0.18097706	3.0954256	21	11 25.4	20.1
316817 1999 VO_{207}	16.3	X	310.48303	189.61373	228.66815	11.68129	0.1396243	0.17615785	3.1516263	21	10 6.2	20.2
316818 1999 VG_{209}	16.3	X	303.47084	3.05245	8.50478	4.13988	0.1120129	0.21794895	2.7346360	21	8 4.5	19.6
316819 1999 VR_{215}	16.0	X	319.54936	30.65695	6.26192	9.99996	0.2201948	0.17528981	3.1620224	21	9 18.8	19.4
316820 1999 VY_{215}	15.8	X	295.44923	150.67297	20.12752	13.73210	0.0845981	0.19259290	2.9696769	21	—	—
316821 1999 VW_{217}	15.9	X	257.61279	307.23614	214.33682	8.41816	0.0240244	0.18502212	3.0501436	21	12 19.4	20.3
316822 1999 WS_{15}	16.3	X	8.07892	18.54239	63.17757	3.21697	0.0720251	0.18725744	3.0258216	21	—	—
316823 1999 WS_{25}	17.4	X	167.51710	163.08223	82.05409	1.91014	0.1878487	0.27316670	2.3524345	21	12 20.8	21.2
316824 1999 XK_{65}	16.8	X	44.76342	175.05159	224.15558	4.08119	0.2794857	0.23160384	2.6260655	21	—	—
316825 1999 XG_{149}	17.5	X	45.65220	280.03020	77.52814	0.60101	0.2374141	0.27434342	2.3457030	21	—	—
316826 1999 XJ_{152}	15.5	X	343.71578	358.46569	64.76814	10.41075	0.0727576	0.18079852	3.0974630	21	12 9.0	19.5
316827 1999 XL_{225}	17.2	X	2.32497	225.35107	96.88776	4.60604	0.2004910	0.30404425	2.1903399	21	9 30.4	18.6
316828 1999 XZ_{236}	15.4	X	268.53238	34.28696	65.22463	17.34617	0.1773106	0.17437583	3.1730617	21	10 4.7	20.1
316829 1999 YS	14.6	X	54.53812	249.47728	261.02265	27.40053	0.3997718	0.23755062	2.5820537	21	5 18.5	17.2
316830 2000 AS_{146}	14.8	X	261.39868	20.10116	117.76924	29.29748	0.1541123	0.17521267	3.1629504	21	11 17.7	19.8
316831 2000 BP_{9}	16.2	X	290.24114	245.02071	134.82093	12.07783	0.2669161	0.21068441	2.7971416	21	6 30.3	20.0
316832 2000 BM_{20}	16.4	X	79.36644	106.00249	311.84662	4.59382	0.1775510	0.18710642	3.0274496	21	1 25.0	20.2
316833 2000 BC_{52}	13.7	X	334.48050	326.64060	119.66893	13.17861	0.0710938	0.08393713	5.1661455	21	12 5.9	20.3
316834 2000 CO_{74}	16.4	X	240.74006	6.44054	158.16964	0.91559	0.1204262	0.17325452	3.1867378	21	11 18.2	21.0
316835 2000 CB_{101}	13.5	X	341.10693	96.84234	306.88103	8.56239	0.0521359	0.08009983	5.3298501	21	10 22.7	20.4
316836 2000 CQ_{132}	16.5	X	140.37719	125.42813	311.02952	3.85866	0.0339060	0.19516669	2.9435105	21	4 12.1	20.7
316837 2000 CW_{140}	17.8	X	46.71390	231.60949	303.92066	2.40894	0.0830366	0.28734030	2.2744254	21	4 10.7	20.0
316838 2000 CF_{142}	16.5	X	277.49404	55.46778	297.42450	0.95409	0.0872001	0.20131854	2.8832360	21	6 5.0	20.3
316839 2000 DS_{9}	16.4	X	231.68097	81.09386	332.13167	1.27664	0.0625246	0.20305190	2.8668041	21	6 30.7	20.5
316840 2000 DB_{12}	16.2	X	282.62376	340.78120	0.63995	12.66490	0.1732631	0.24101866	2.5572250	21	5 7.7	19.9
316841 2000 DA_{90}	16.9	X	344.81967	268.73727	319.68862	6.78246	0.0393620	0.28520019	2.2857892	21	3 17.2	19.5
316842 2000 ER_{99}	16.1	X	265.30488	30.61123	350.20366	14.02497	0.1289432	0.24732799	2.5135481	21	6 19.6	19.9
316843 2000 EW_{123}	16.8	X	136.36244	158.74054	357.57601	11.38573	0.1049684	0.24732670	2.5135568	21	8 1.3	20.6
316844 2000 EP_{170}	16.7	X	337.73837	139.20176	114.39197	6.46949	0.1643142	0.28356708	2.2945570	21	3 31.3	19.0
316845 2000 FG_{2}	17.9	X	114.17813	335.85940	182.05101	2.76623	0.1528854	0.28923637	2.2644746	21	7 9.9	21.0
316846 2000 FZ_{72}	16.4	X	75.27287	3.03471	142.98255	10.47407	0.1415500	0.23798834	2.5788867	21	5 5.9	19.7
316847 2000 GQ_{9}	17.0	X	320.14569	202.09708	30.44452	2.57335	0.1704941	0.27758130	2.3274262	21	1 30.8	19.8
316848 2000 GW_{19}	17.2	X	126.88549	320.19469	197.73668	5.55107	0.1602836	0.24486014	2.5304086	21	7 23.1	21.2
316849 2000 GH_{47}	16.6	X	26.18103	219.01645	17.86980	12.15644	0.1401077	0.23882703	2.5728456	21	6 15.8	19.5
316850 2000 GS_{120}	16.1	X	8.97410	173.34005	50.76439	1.81797	0.0588981	0.18996534	2.9969981	21	4 30.8	19.9
316851 2000 GT_{130}	16.5	X	273.20598	305.91240	187.90248	8.87363	0.0493864	0.21396573	2.7684705	21	12 8.6	20.3
316852 2000 GH_{145}	16.8	X	110.22959	334.02605	187.19721	19.05698	0.0545050	0.24346007	2.5401004	21	6 25.9	20.7
316853 2000 HJ_{8}	16.8	X	162.68046	69.15115	205.44242	6.68170	0.1870149	0.25868618	2.4394237	21	—	—
316854 2000 HA_{83}	16.6	X	52.69320	197.37091	52.73345	7.03930	0.1464284	0.24197218	2.5505025	21	8 28.5	19.7
316855 2000 JK_{72}	15.3	X	330.60553	278.39811	65.37582	26.69826	0.4184256	0.23785791	2.5798294	21	6 16.9	17.3
316856 2000 JU_{78}	16.4	X	357.74707	60.27562	205.78202	14.10066	0.0895981	0.23880495	2.5730042	21	6 6.2	19.5
316857 2000 NH_{10}	17.1	X	32.30922	127.59986	242.15355	2.12204	0.3971429	0.28990672	2.2609825	21	—	—
316858 2000 PW_{6}	17.2	X	354.92750	70.28381	291.74188	18.95732	0.1018307	0.38045271	1.8862631	21	11 18.2	19.1
316859 2000 QN_{4}	16.5	X	331.31982	356.38384	346.51767	6.11556	0.2956923	0.23287755	2.6164813	21	7 21.1	18.4
316860 2000 QX_{17}	16.1	X	281.01037	146.17471	147.36828	15.18482	0.1344409	0.22208350	2.7005892	21	3 19.3	20.1
316861 2000 QA_{43}	16.1	X	318.37385	132.54606	156.96682	13.65308	0.1632371	0.22681603	2.6628920	21	4 28.9	19.5
316862 2000 QV_{56}	16.2	X	311.69915	311.74076	335.38237	15.09864	0.1517283	0.22539615	2.6740635	21	4 5.6	20.0
316863 2000 QF_{70}	17.2	X	269.53672	24.49854	343.22360	20.29578	0.0279226	0.37074165	1.9190596	21	6 21.6	19.7
316864 2000 QB_{81}	17.3	X	86.95349	50.98453	330.57723	4.36802	0.1581485	0.29917202	2.2140567	21	—	—
316865 2000 QT_{113}	17.4	X	183.31200	8.03434	344.59509	1.59907	0.2085238	0.26118949	2.4238119	21	2 19.8	21.3
316866 2000 QD_{124}	17.2	X	132.04944	3.59517	320.32203	3.15661	0.2533166	0.29898156	2.2149969	21	—	—
316867 2000 QH_{144}	17.2	X	2.44402	198.10737	139.43581	4.21611	0.2459571	0.28322830	2.2963863	21	10 28.8	18.8
316868 2000 QY_{147}	17.2	X	279.49379	260.23138	160.12404	22.04104	0.1156124	0.37729628	1.8967687	21	9 24.4	18.5
316869 2000 QW_{153}	16.9	X	219.71564	10.97002	297.53523	3.64883	0.2398172	0.26357206	2.4091831	21	1 26.9	20.9
316870 2000 QE_{174}	17.4	X	26.89219	65.84440	308.91630	5.19167	0.2744517	0.29027237	2.2590833	21	—	—
316871 2000 QD_{180}	17.3	X	327.64795	59.07643	346.41352	19.32129	0.1278070	0.38021535	1.8870480	21	12 14.8	19.1
316872 2000 QO_{192}	16.0	X	206.19460	12.69546	359.60799	16.90503	0.1489695	0.21949800	2.7217548	21	4 3.8	20.5
316873 2000 QU_{223}	15.9	X	320.12825	315.56127	330.78902	13.75791	0.1639887	0.22641181	2.6660605	21	4 15.1	19.5
316874 2000 QP_{254}	17.3	X	327.37111	33.64282	327.98602	3.95602	0.1583660	0.28121724	2.3073214	21	9 1.4	19.1
316875 2000 RU_{26}	16.7	X	11.57905	348.64152	334.62108	8.84846	0.2376035	0.28281383	2.2986294	21	10 16.9	18.7
316876 2000 RF_{43}	15.5	X	346.34391	190.98000	206.36129	9.90535	0.4483643	0.18785801	3.0193694	21	12 16.5	17.1
316877 2000 RY_{70}	16.4	X	4.68637	225.46229	130.47257	5.66456	0.2695642	0.23703731	2.5857800	21	11 22.5	18.8
316878 2000 RF_{91}	16.8	X	281.65953	224.72340	331.51950	16.24200	0.0661972	0.34759346	2.0033415	21	—	—
316879 2000 RS_{96}	17.2	X	335.89985	116.00670	277.70670	3.02569	0.2661633	0.28289154	2.2982084	21	11 24.1	18.0
316880 2000 RM_{107}	16.1	X	357.77015	333.81435	61.40350	2.81049	0.1028720	0.19424924	2.9527714	21	11 29.9	19.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
316881 2000 SB_{17}	16.5	X	203.11509	132.64052	248.91503	6.27282	0.2585602	0.21822378	2.7323395	21	4 13.0	21.5
316882 2000 SC_{19}	16.2	X	270.26837	338.63167	306.92184	10.08714	0.1575270	0.21705959	2.7421007	21	2 18.8	20.4
316883 2000 SA_{24}	15.9	X	22.12985	265.14325	6.69988	27.45746	0.3988296	0.23328631	2.6134240	21	9 21.7	18.1
316884 2000 SL_{24}	17.3	X	43.18231	113.13005	232.25454	19.66698	0.0647124	0.38345751	1.8763962	21	—	—
316885 2000 SO_{28}	16.3	X	341.40198	160.02037	260.45343	8.55133	0.2180553	0.19187899	2.9770384	21	12 11.7	19.3
316886 2000 SZ_{31}	17.1	X	214.00804	334.16218	342.79647	1.38614	0.2101219	0.26171753	2.4205506	21	2 2.1	21.2
316887 2000 SZ_{41}	16.5	X	197.82807	287.90885	54.43872	8.39784	0.2358351	0.21324299	2.7747224	21	2 28.7	21.4
316888 2000 SG_{48}	15.5	X	162.44767	187.43539	227.72261	10.86050	0.1081562	0.21864189	2.7288550	21	4 15.2	19.8
316889 2000 SF_{54}	16.6	X	350.78357	230.70955	193.83248	4.42593	0.2643443	0.24110737	2.5565977	21	—	—
316890 2000 SY_{57}	17.1	X	56.51828	337.32670	23.40582	0.42603	0.2145894	0.24450079	2.5328873	21	—	—
316891 2000 SN_{80}	17.0	X	142.43132	218.15800	141.46044	3.40163	0.1934293	0.25499391	2.4629155	21	1 20.2	20.4
316892 2000 SJ_{93}	16.0	X	63.73645	166.97495	263.49884	6.98041	0.3183471	0.20401099	2.8578122	21	1 27.8	18.5
316893 2000 SD_{100}	16.1	X	44.31420	76.13193	326.93087	2.69029	0.1525518	0.24607581	2.5220679	21	—	—
316894 2000 SV_{135}	16.1	X	318.42675	37.75602	335.50020	15.30120	0.1667231	0.23150998	2.6267752	21	8 26.1	18.6
316895 2000 SW_{138}	16.5	X	288.25564	316.32681	356.80339	8.56102	0.2516585	0.22289513	2.6940294	21	4 1.7	20.5
316896 2000 SY_{140}	16.3	X	173.52102	10.81111	351.15101	9.24510	0.2184870	0.21149445	2.7899948	21	3 1.5	21.0
316897 2000 SR_{190}	16.3	X	240.90718	158.27575	149.50456	10.21261	0.1994425	0.21742016	2.7390682	21	2 17.9	20.8
316898 2000 SN_{195}	16.2	X	168.32301	13.21520	354.44664	6.20541	0.0968932	0.21294451	2.7773146	21	2 24.2	20.4
316899 2000 SP_{214}	16.3	X	288.92178	273.26108	2.44502	9.54861	0.2186726	0.21925445	2.7237701	21	2 23.8	20.5
316900 2000 SQ_{227}	16.9	X	243.22499	81.41788	50.30635	22.12458	0.0883213	0.37634206	1.8999735	21	11 17.9	18.4
316901 2000 SV_{227}	17.3	X	334.21107	252.31993	191.06076	5.27344	0.1249269	0.29018880	2.2595170	21	—	—
316902 2000 SW_{282}	15.7	X	250.48199	17.92789	282.27527	9.01908	0.2117570	0.21658279	2.7461236	21	2 13.4	20.5
316903 2000 SD_{289}	17.5	X	352.98044	78.93889	324.41585	3.80955	0.2414032	0.28694196	2.2765298	21	—	—
316904 2000 SC_{290}	17.2	X	120.32533	333.47685	339.80789	5.95694	0.2054816	0.29575922	2.2310563	21	—	—
316905 2000 SO_{362}	17.5	X	87.01226	210.84645	148.99558	5.95796	0.1688356	0.29649209	2.2273782	21	—	—
316906 2000 TJ_{2}	16.0	X	259.56186	282.59362	65.66614	2.79778	0.1436544	0.17456361	3.1707858	21	5 3.6	20.8
316907 2000 TJ_{20}	16.8	X	29.68807	294.84937	77.91463	6.75143	0.2198447	0.28897141	2.2658586	21	—	—
316908 2000 TG_{27}	17.4	X	150.75166	296.42075	18.15852	6.21185	0.1804106	0.30025381	2.2087354	21	—	—
316909 2000 TK_{54}	17.2	X	336.82921	278.96765	110.61259	7.42372	0.1893304	0.28286113	2.2983731	21	11 15.6	18.9
316910 2000 UY_{17}	16.6	X	4.61993	299.41212	80.40570	5.82835	0.2224303	0.23781376	2.5801486	21	12 17.3	19.1
316911 2000 UN_{19}	17.1	X	16.22740	314.55350	39.76049	10.09581	0.1679166	0.28431466	2.2905329	21	12 2.7	19.5
316912 2000 UG_{23}	17.0	X	74.41094	186.56818	193.59464	8.76561	0.1506101	0.29368123	2.2415680	21	—	—
316913 2000 UY_{55}	15.4	X	89.78264	191.38021	230.53002	12.42911	0.1789484	0.20270334	2.8700895	21	2 5.9	19.3
316914 2000 UT_{64}	17.8	X	328.13652	75.11703	308.94355	2.62200	0.2458584	0.28112484	2.3078269	21	10 7.2	18.8
316915 2000 UG_{107}	17.1	X	348.43447	320.08999	81.90941	7.49985	0.2131062	0.28459877	2.2890083	21	—	—
316916 2000 VB_{9}	17.2	X	352.67743	352.99910	60.76194	3.51620	0.1984804	0.28619278	2.2805010	21	—	—
316917 2000 VL_{21}	16.5	X	100.89385	208.03443	222.45597	5.65254	0.1128991	0.25441080	2.4666774	21	2 15.0	19.5
316918 2000 WZ_{17}	17.1	X	324.69828	47.01801	57.13685	4.42537	0.1635312	0.28705448	2.2759349	21	—	—
316919 2000 WK_{22}	16.0	X	267.73632	325.00294	61.83676	13.86007	0.2666760	0.22596960	2.6695375	21	6 11.5	20.1
316920 2000 WW_{75}	17.4	X	32.99745	47.91578	339.41104	3.29261	0.1458914	0.28816977	2.2700588	21	—	—
316921 2000 WA_{104}	16.2	X	324.55293	356.82137	116.02594	7.71584	0.0937581	0.23928066	2.5695929	21	—	—
316922 2000 WB_{165}	14.9	X	176.02961	43.56822	101.16289	15.39506	0.4510264	0.21859153	2.7292742	21	8 24.2	20.6
316923 2000 XC_{46}	16.6	X	255.56410	90.07014	15.12830	22.83169	0.2425481	0.27493138	2.3423575	21	9 23.1	19.7
316924 2000 YB_{5}	16.7	X	236.14650	117.88824	31.95498	22.90905	0.2773718	0.27616153	2.3353963	21	10 21.0	20.1
316925 2000 YD_{34}	16.5	X	245.83191	352.75625	131.76054	9.65275	0.2792458	0.27305955	2.3530499	21	9 29.7	19.9
316926 2000 YV_{44}	16.0	X	19.19165	18.66964	108.07693	9.77638	0.0772366	0.24564233	2.5250341	21	—	—
316927 2000 YF_{45}	16.4	X	220.17295	100.04849	100.09906	23.27341	0.1134542	0.28113168	2.3077895	21	12 29.3	19.3
316928 2000 YN_{51}	16.7	X	323.96466	346.63238	99.43563	2.26113	0.3120972	0.18720293	3.0264090	21	12 3.0	18.7
316929 2000 YC_{92}	15.5	X	41.73010	129.63836	305.50350	9.69767	0.0895639	0.19430563	2.9522001	21	—	—
316930 2000 YK_{96}	15.4	X	347.06665	343.33719	117.14642	12.31839	0.1409547	0.18957196	3.0011427	21	—	—
316931 2001 AE	16.6	X	322.78576	19.41964	52.81806	1.96274	0.2483025	0.18326614	3.0695960	21	11 12.0	19.1
316932 2001 AA_{13}	17.0	X	184.47951	186.73746	292.09107	4.87948	0.1526091	0.26549700	2.3975240	21	7 29.9	20.7
316933 2001 AV_{50}	15.3	X	276.33931	77.60162	117.08104	11.03413	0.0571013	0.19145383	2.9814441	21	—	—
316934 2001 AA_{52}	16.7	X	317.95828	62.37515	349.76084	9.12977	0.2865822	0.27833141	2.3232426	21	10 20.4	17.8
316935 2001 BO_{5}	17.5	X	176.77833	205.68596	309.19211	16.50961	0.0689655	0.36448661	1.9409529	21	9 10.1	20.1
316936 2001 BT_{12}	16.3	X	298.74230	100.43495	127.08662	13.26206	0.0511448	0.24644955	2.5195174	21	1 19.6	19.6
316937 2001 BO_{83}	17.9	X	172.35213	39.71926	129.49198	2.21765	0.1286021	0.26766441	2.3845639	21	9 24.0	21.3
316938 2001 CC_{20}	17.5	X	227.02088	321.86037	132.70877	23.62427	0.0757819	0.36307553	1.9459786	21	8 28.9	19.6
316939 2001 CW_{20}	16.2	X	247.42625	62.47282	107.73258	24.64076	0.2453698	0.27652973	2.3333228	21	12 8.9	19.3
316940 2001 CH_{33}	15.2	X	163.29207	80.21663	90.60910	26.42424	0.2320743	0.17056663	3.2201295	21	9 22.7	21.2
316941 2001 CY_{45}	15.3	X	228.94513	112.38973	33.81660	23.00057	0.1871681	0.17546014	3.1599756	21	10 12.8	20.4
316942 2001 CF_{49}	15.7	X	308.89912	188.52791	320.64659	10.01914	0.1763214	0.18868791	3.0105095	21	—	—
316943 2001 DW_{1}	17.1	X	301.65225	336.06638	139.22780	2.47300	0.1277454	0.18316174	3.0707624	21	12 9.9	20.9
316944 2001 DQ_{5}	17.0	X	242.45234	35.98627	70.47732	5.74859	0.1434062	0.26960970	2.3730800	21	9 19.2	20.2
316945 2001 DF_{8}	15.7	X	255.98954	195.58350	140.62502	16.19869	0.1934801	0.20645921	2.8351750	21	4 12.9	20.4
316946 2001 DK_{15}	17.0	X	230.20953	131.10392	13.98339	5.83776	0.2024189	0.27250835	2.3562218	21	10 15.1	20.2
316947 2001 DN_{15}	17.5	X	227.47165	52.44497	94.69055	4.65622	0.2520125	0.27230597	2.3573891	21	10 12.0	21.1
316948 2001 DP_{15}	15.4	X	167.89831	230.12937	344.32089	26.63213	0.1681139	0.17458957	3.1704715	21	10 21.0	21.1
316949 2001 DW_{20}	15.1	X	242.21455	81.93893	134.53460	17.31330	0.2362612	0.18196807	3.0841767	21	—	—
316950 2001 DT_{34}	17.0	X	279.13149	289.06302	155.19252	6.30865	0.2137470	0.27427900	2.3460702	21	9 27.4	19.3
316951 2001 DB_{48}	15.7	X	294.72612	314.47101	140.82705	11.65607	0.0454902	0.17863470	3.1224260	21	11 15.8	20.1
316952 2001 DS_{60}	15.3	X	285.25242	190.73691	313.96322	10.00146	0.0864464	0.18408536	3.0604824	21	12 27.6	19.4
316953 2001 DX_{80}	15.2	X	292.73801	195.06414	314.36963	10.35296	0.0850391	0.18373731	3.0643461	21	—	—
316954 2001 DS_{81}	16.0	X	307.43247	208.14796	329.14582	9.21369	0.0616120	0.19063848	2.9899391	21	—	—
316955 2001 DH_{87}	15.2	X	216.52486	228.85938	14.43834	14.34977	0.1370400	0.18008492	3.1056403	21	—	—
316956 2001 DK_{90}	17.7	X	80.06996	233.59104	28.88976	2.62027	0.1628235	0.26322653	2.4112909	21	10 20.9	21.1
316957 2001 EN_{22}	17.2	X	225.79734	356.69333	156.12019	2.29123	0.1173867	0.27069108	2.3667556	21	11 1.5	20.4
316958 2001 FG_{1}	15.6	X	195.07250	354.60783	23.01905	5.26917	0.1770302	0.24675857	2.5174135	21	4 2.2	19.7
316959 2001 FA_{20}	16.9	X	200.05044	232.81845	352.95071	8.03971	0.1624875	0.27405053	2.3473740	21	12 31.5	20.4
316960 2001 FU_{27}	16.6	X	150.71207	236.96310	5.66113	6.98548	0.1867335	0.26844183	2.3799578	21	12 1.3	20.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
316961 2001 FM_{30}	15.4	X	234.53730	199.71934	272.07464	12.22089	0.1182160	0.21890627	2.7266575	21	9 5.5	19.6
316962 2001 FY_{56}	14.9	X	194.83391	189.89739	28.72301	29.07345	0.1441076	0.17449100	3.1716654	21	11 23.7	20.3
316963 2001 FD_{57}	15.4	X	195.29984	287.92706	305.32635	16.00957	0.2045612	0.17733878	3.1376192	21	12 16.8	20.7
316964 2001 FD_{71}	15.4	X	219.22942	124.09541	100.42504	4.62121	0.2103855	0.17825172	3.1268969	21	12 26.3	20.3
316965 2001 FE_{71}	15.6	X	206.86571	197.93968	9.20542	17.57311	0.1713133	0.17636846	3.1491168	21	11 23.5	20.9
316966 2001 FY_{73}	15.5	X	260.48715	164.54748	10.75488	16.34403	0.1855092	0.18052179	3.1006277	21	12 14.4	20.0
316967 2001 FZ_{80}	17.4	X	159.99269	333.98674	240.50959	7.31479	0.2932604	0.26760792	2.3848994	21	11 3.6	21.6
316968 2001 FR_{81}	15.4	X	227.43071	252.33315	320.89897	15.02165	0.1814423	0.18014056	3.1050007	21	12 26.1	20.3
316969 2001 FQ_{83}	15.5	X	347.70444	243.74522	174.85225	9.94951	0.0803946	0.17858946	3.1229534	21	12 10.3	19.7
316970 2001 FT_{120}	17.0	X	204.32979	51.55454	153.15408	3.70813	0.2024884	0.27213926	2.3583518	21	12 4.4	20.4
316971 2001 FL_{130}	16.7	X	199.56184	5.36086	184.96130	12.22249	0.1294028	0.27114233	2.3641290	21	11 19.9	20.2
316972 2001 FV_{131}	15.3	X	238.54188	178.39939	1.39553	16.06291	0.0600533	0.17809573	3.1287225	21	12 9.8	20.1
316973 2001 FV_{140}	17.3	X	115.26244	236.31028	27.09961	6.81231	0.1083441	0.26582119	2.3955743	21	11 22.5	20.7
316974 2001 FP_{147}	16.4	X	122.95939	57.22149	207.88885	19.84605	0.2615478	0.26627887	2.3928285	21	12 7.7	20.9
316975 2001 FF_{154}	15.7	X	237.79666	198.20156	17.40734	10.46177	0.0284889	0.18164349	3.0878497	21	—	—
316976 2001 FH_{159}	17.4	X	205.92661	356.32331	194.71862	6.74360	0.1667908	0.27162467	2.3613294	21	11 22.9	20.8
316977 2001 FV_{159}	17.2	X	175.83329	55.77194	157.90401	2.02702	0.2442456	0.26864474	2.3787592	21	11 16.9	21.2
316978 2001 FY_{180}	15.4	X	225.54685	177.78750	11.32615	17.68013	0.1661252	0.17614111	3.1518260	21	11 20.4	20.5
316979 2001 FK_{184}	16.4	X	252.77976	63.17267	178.48168	10.54585	0.0616872	0.18801700	3.0176669	21	—	—
316980 2001 GV_{3}	15.3	X	210.36365	26.99611	181.32879	28.27785	0.1731561	0.17503409	3.1651014	21	12 4.1	20.8
316981 2001 GW_{11}	14.8	X	187.02061	186.74502	71.04337	18.29659	0.1913268	0.17514568	3.1637568	21	—	—
316982 2001 HS_{13}	15.3	X	182.78214	80.66712	172.28934	25.40413	0.2677616	0.17465033	3.1697361	21	12 25.4	21.3
316983 2001 HD_{57}	16.9	X	87.23916	155.33079	49.32804	22.04583	0.0580706	0.35354967	1.9807778	21	8 10.9	19.7
316984 2001 JC	16.9	X	137.99910	38.53420	199.84926	4.27722	0.1811052	0.26453522	2.4033317	21	11 16.9	20.8
316985 2001 KV_{63}	14.7	X	199.75962	159.44853	100.98474	30.85116	0.2301640	0.17673926	3.1447107	21	—	—
316986 2001 LJ	15.3	X	110.93882	178.57435	107.53018	26.05286	0.3653422	0.16248575	3.3260277	21	12 18.9	21.5
316987 2001 LU	15.6	X	109.04552	157.73477	102.70386	14.44781	0.1830346	0.16361217	3.3107444	21	11 11.3	21.1
316988 2001 MN_{26}	15.6	X	249.91658	241.58953	113.85260	14.33747	0.2197012	0.23796120	2.5790828	21	4 27.5	20.0
316989 2001 NL_{5}	16.2	X	126.17743	359.37572	356.77247	5.43471	0.0430135	0.22179100	2.7029630	21	—	—
316990 2001 NB_{11}	16.2	X	199.50830	168.81927	120.59992	13.92021	0.1250600	0.22341956	2.6898120	21	—	—
316991 2001 OJ_{11}	16.8	X	125.32154	299.68389	26.98497	2.30229	0.2576300	0.21666387	2.7454385	21	—	—
316992 2001 OP_{19}	16.6	X	307.07499	155.75123	169.25890	14.28157	0.1418415	0.24203651	2.5500506	21	5 31.7	20.0
316993 2001 OQ_{63}	16.9	X	212.54023	359.93246	336.66820	6.53444	0.2350117	0.22927322	2.6438318	21	2 27.2	21.4
316994 2001 OB_{93}	16.6	X	299.51021	356.07577	352.18616	5.25612	0.0954690	0.24331984	2.5410763	21	6 27.9	19.7
316995 2001 OD_{111}	16.6	X	275.20254	285.22013	58.52976	6.00420	0.2084450	0.23705017	2.5856865	21	5 3.2	20.4
316996 2001 OK_{111}	16.5	X	313.50080	160.49623	139.02708	9.23822	0.1544176	0.23976795	2.5661102	21	5 4.9	19.8
316997 2001 OS_{111}	16.4	X	220.65462	9.33081	318.27762	13.92691	0.1761695	0.22974416	2.6402177	21	2 21.5	20.8
316998 2001 PZ_{18}	16.6	X	172.76044	197.74317	97.80025	7.41765	0.1297514	0.26920075	2.3754827	21	—	—
316999 2001 PR_{21}	17.5	X	222.84194	211.08643	125.63975	2.91353	0.1713944	0.27966953	2.3158261	21	3 4.2	21.2
317000 2001 PY_{28}	16.1	X	164.80708	52.16231	315.78835	12.22531	0.2816389	0.22387774	2.6861408	21	2 27.7	20.8
317001 2001 PP_{34}	16.3	X	302.08681	94.25575	226.82484	6.51753	0.2116842	0.23842793	2.5757159	21	5 4.6	19.7
317002 2001 PV_{38}	16.1	X	144.57534	284.47013	83.64179	14.02052	0.1832293	0.22175958	2.7032183	21	2 9.9	20.4
317003 2001 PN_{57}	16.3	X	242.47553	188.04742	129.69588	13.66109	0.1658877	0.23003680	2.6379780	21	3 6.3	20.6
317004 2001 PV_{60}	16.8	X	298.85187	165.00074	160.25941	5.04656	0.1322253	0.24014943	2.5633919	21	5 20.2	20.0
317005 2001 PK_{67}	16.6	X	251.30583	210.33825	104.06993	8.85069	0.2580846	0.23066395	2.6331942	21	3 4.9	21.2
317006 2001 QK	15.9	X	194.79132	353.68674	340.81201	12.86103	0.2791598	0.22528133	2.6749721	21	2 15.1	20.7
317007 2001 QM_{21}	16.3	X	225.84974	346.90663	339.45540	14.41338	0.2545715	0.22773146	2.6557510	21	2 25.5	20.8
317008 2001 QA_{46}	16.9	X	171.56006	205.07141	153.56830	6.45973	0.2616164	0.22462418	2.6801867	21	2 23.9	21.6
317009 2001 QU_{50}	16.6	X	187.12721	210.80838	149.13256	18.96926	0.2334681	0.22633043	2.6666996	21	3 9.7	21.2
317010 2001 QV_{92}	16.2	X	224.69561	232.53013	108.46152	13.64550	0.2770756	0.22927255	2.6438370	21	3 18.1	21.2
317011 2001 QU_{96}	15.9	X	270.82438	336.25755	346.19105	13.63012	0.2581358	0.23332714	2.6131191	21	3 24.0	20.2
317012 2001 QT_{100}	15.9	X	328.83720	249.77550	16.82078	15.06940	0.2628061	0.23777605	2.5804214	21	3 24.9	18.9
317013 2001 QE_{125}	16.4	X	248.16755	192.50115	144.93955	15.20927	0.1888976	0.23293878	2.6160227	21	4 4.2	20.8
317014 2001 QY_{129}	16.3	X	206.28684	47.57922	310.54013	12.36850	0.1817801	0.22939054	2.6429303	21	3 14.5	20.9
317015 2001 QV_{159}	17.2	X	201.77136	187.38541	143.22253	3.04332	0.2170982	0.27563798	2.3383527	21	2 6.8	20.9
317016 2001 QN_{164}	16.2	X	259.60793	287.55458	64.89307	10.75770	0.1262640	0.23693761	2.5865054	21	5 7.9	19.9
317017 2001 QJ_{184}	17.0	X	212.22268	43.11695	317.88613	2.14586	0.1585246	0.23089655	2.6314256	21	3 27.9	21.1
317018 2001 QB_{193}	16.4	X	216.62241	54.78620	295.02158	10.83167	0.2723661	0.22829303	2.6513941	21	3 12.1	21.4
317019 2001 QH_{205}	15.5	X	262.27941	166.10646	182.24690	9.52780	0.1150052	0.18616831	3.0376114	21	5 10.7	20.0
317020 2001 QW_{206}	17.3	X	150.40132	238.20228	125.15944	3.07185	0.1549538	0.27147505	2.3621969	21	1 26.3	20.3
317021 2001 QL_{217}	17.1	X	121.15431	294.12744	41.20855	2.07679	0.2021112	0.26420529	2.4053321	21	—	—
317022 2001 QW_{217}	16.9	X	180.67920	219.96151	140.92499	3.76903	0.1924620	0.22510490	2.6763695	21	3 3.1	21.3
317023 2001 QD_{221}	15.4	X	288.05658	156.39405	174.49747	10.98431	0.1072910	0.18993736	2.9972924	21	5 20.9	19.7
317024 2001 QC_{224}	16.6	X	192.35497	61.36826	301.36413	11.73085	0.2827157	0.22762308	2.6565940	21	3 10.5	21.6
317025 2001 QP_{227}	16.3	X	339.97888	351.51199	304.40000	12.45751	0.1348922	0.24028727	2.5624115	21	6 14.8	19.2
317026 2001 QH_{229}	16.6	X	313.75330	33.30617	268.88291	4.48315	0.2918709	0.23884950	2.5726843	21	4 9.9	19.9
317027 2001 QJ_{229}	16.8	X	242.56278	179.13726	189.58691	12.97984	0.1808922	0.23469521	2.6029544	21	5 5.9	21.0
317028 2001 QC_{230}	17.3	X	184.34069	343.35462	348.31115	1.68002	0.1832225	0.27187828	2.3598607	21	1 23.6	21.0
317029 2001 QM_{245}	16.1	X	234.30822	17.50510	357.20688	12.88659	0.1634717	0.23244118	2.6197550	21	4 30.2	20.4
317030 2001 QZ_{254}	15.1	X	42.52316	263.92669	115.46049	18.88838	0.1810869	0.15967708	3.3649168	21	—	—
317031 2001 QU_{267}	16.3	X	242.19627	36.37774	285.37458	14.56458	0.1592589	0.22843240	2.6503155	21	3 1.2	20.8
317032 2001 QH_{275}	15.5	X	138.02817	351.52197	9.21692	7.97113	0.1420784	0.17154901	3.2078243	21	1 27.9	20.4
317033 2001 QX_{277}	16.4	X	287.30935	228.33789	108.83719	12.47397	0.1919790	0.23771968	2.5808293	21	5 14.7	20.1
317034 2001 QF_{330}	16.5	X	150.29798	74.42097	301.39265	7.14551	0.1435780	0.22271481	2.6954834	21	2 15.6	20.5
317035 2001 RZ_{7}	16.6	X	314.22827	145.43592	191.08526	13.91070	0.1055388	0.24094285	2.5577614	21	7 1.1	19.9
317036 2001 RN_{14}	16.7	X	162.68177	155.35822	202.89886	5.07829	0.0985060	0.22198979	2.7013492	21	2 2.9	20.8
317037 2001 RP_{22}	17.5	X	27.88202	176.85090	182.89482	1.49634	0.1989393	0.25403600	2.4691030	21	12 26.7	20.5
317038 2001 RF_{55}	16.4	X	281.40120	336.90992	352.60242	10.65547	0.0657749	0.23586164	2.5943656	21	5 6.9	20.0
317039 2001 RE_{60}	16.9	X	200.89571	264.70726	105.76147	6.10653	0.1511212	0.22832269	2.6511645	21	4 2.5	21.2
317040 2001 RV_{74}	14.9	X	186.45001	243.47089	199.04343	21.65421	0.1383650	0.18214786	3.0821468	21	6 15.2	20.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
317041 2001 RX_{74}	16.3	X	130.34919	172.41515	194.25869	7.69713	0.2527968	0.21629789	2.7485345	21	1 28.0	20.5
317042 2001 RJ_{91}	15.7	X	246.37695	316.31328	14.24856	7.43496	0.2709781	0.18229862	3.0804474	21	3 21.1	20.9
317043 2001 RL_{113}	16.7	X	325.11515	279.90598	358.14837	11.28512	0.1569802	0.23644541	2.5900936	21	4 15.2	19.9
317044 2001 RN_{125}	16.8	X	127.60536	226.09766	153.68354	8.80336	0.2242237	0.21888936	2.7267979	21	2 7.6	20.8
317045 2001 RP_{130}	17.4	X	88.37532	242.54239	59.27167	2.24859	0.1765077	0.25584129	2.4574742	21	12 17.9	21.2
317046 2001 RA_{138}	15.9	X	220.82985	230.90374	161.61011	12.98999	0.1476658	0.18475067	3.0531305	21	5 20.7	21.0
317047 2001 RB_{142}	16.0	X	125.45280	100.19242	296.80643	26.53347	0.1063614	0.21990674	2.7183811	21	2 4.6	20.1
317048 2001 SM_{8}	16.7	X	177.48724	349.07921	5.74003	1.82687	0.1006258	0.22182014	2.7027263	21	2 16.5	20.6
317049 2001 SO_{49}	16.1	X	263.99829	289.15681	28.27870	12.96269	0.1664698	0.23046583	2.6347031	21	3 27.1	20.1
317050 2001 SF_{51}	16.6	X	175.30222	173.07089	169.42854	15.96810	0.2483510	0.22160693	2.7044595	21	2 5.9	21.4
317051 2001 SH_{60}	14.6	X	213.56364	344.91016	336.87651	8.94249	0.1918414	0.12409187	3.9808318	21	2 22.6	21.1
317052 2001 SF_{61}	17.5	X	134.79435	148.76440	188.87527	3.23362	0.2494645	0.26485766	2.4013808	21	—	—
317053 2001 SV_{84}	16.5	X	124.74911	93.31631	339.78813	12.39670	0.1703801	0.22552910	2.6730125	21	3 31.3	20.5
317054 2001 SZ_{89}	17.4	X	350.55292	76.81810	317.64767	2.30667	0.1495090	0.25200220	2.4823699	21	12 5.7	19.8
317055 2001 SC_{91}	16.3	X	88.81994	174.70342	198.17169	5.86097	0.0456271	0.21389362	2.7690927	21	—	—
317056 2001 SL_{92}	17.2	X	122.70783	251.96565	189.72122	5.32463	0.1207179	0.27625120	2.3348910	21	4 1.6	20.1
317057 2001 SE_{100}	16.9	X	121.59660	64.32442	351.51996	13.69347	0.1031443	0.22247793	2.6973963	21	3 3.5	20.6
317058 2001 SM_{100}	17.3	X	338.19354	92.84966	192.06448	8.43599	0.1497523	0.23795590	2.5791211	21	5 24.9	20.1
317059 2001 SM_{102}	18.4	X	166.76459	15.08707	323.22802	2.58085	0.0966040	0.31932181	2.1199079	21	—	—
317060 2001 SP_{104}	16.2	X	263.50842	113.01367	210.58503	12.57495	0.1945035	0.23179532	2.6246190	21	3 25.7	20.5
317061 2001 SK_{117}	15.5	X	273.84554	24.69291	316.97761	9.56425	0.0983250	0.18655671	3.0333938	21	5 13.0	20.1
317062 2001 SM_{119}	16.8	X	350.08106	50.71004	232.89538	4.69490	0.2218906	0.24080921	2.5587076	21	6 8.8	18.7
317063 2001 SO_{128}	16.5	X	91.89613	20.48355	325.06468	9.01993	0.1617596	0.21064605	2.7974811	21	—	—
317064 2001 SW_{139}	17.4	X	154.10620	308.51880	356.00137	2.20373	0.1817983	0.26420367	2.4053419	21	—	—
317065 2001 ST_{141}	16.9	X	251.28080	54.80084	327.88156	3.86533	0.0791537	0.23701445	2.5859463	21	6 11.2	20.5
317066 2001 SL_{180}	17.1	X	204.40332	346.64170	355.89806	6.15241	0.1223040	0.27785156	2.3259167	21	2 22.5	20.6
317067 2001 SO_{202}	17.4	X	51.41667	54.80466	352.34635	1.95560	0.1766581	0.26079810	2.4262364	21	—	—
317068 2001 SY_{205}	16.0	X	228.33295	35.84296	9.85094	15.77738	0.0752004	0.23658542	2.5890716	21	6 12.7	20.1
317069 2001 SB_{206}	16.6	X	165.91912	238.77140	179.69676	8.79740	0.0806022	0.22939124	2.6429249	21	4 23.8	20.5
317070 2001 SM_{206}	15.8	X	228.84020	215.20399	176.95666	10.38150	0.0861263	0.18513813	3.0488692	21	5 31.1	20.5
317071 2001 SP_{206}	16.9	X	285.73969	146.99528	168.71857	2.45466	0.1476558	0.23425366	2.6062243	21	4 17.1	20.3
317072 2001 SR_{207}	15.8	X	337.28142	262.01489	4.36288	9.36570	0.0520481	0.18389699	3.0625720	21	5 7.8	19.9
317073 2001 SM_{209}	16.6	X	116.82140	50.14731	134.41733	2.04911	0.0589275	0.24059383	2.5602343	21	8 7.3	20.0
317074 2001 SS_{219}	16.9	X	152.81269	335.83903	20.08803	3.47837	0.1668733	0.21943081	2.7223104	21	1 30.6	21.0
317075 2001 SY_{219}	17.0	X	233.76732	154.25400	170.94186	5.07433	0.0971087	0.22707360	2.6608779	21	3 7.9	20.8
317076 2001 SG_{228}	16.6	X	299.74522	317.99980	15.87397	14.02792	0.0921780	0.23633987	2.5908646	21	6 4.8	20.2
317077 2001 SU_{237}	16.5	X	166.20835	23.80895	16.51691	7.53415	0.1066921	0.22608150	2.6686566	21	4 1.7	20.5
317078 2001 SE_{253}	13.3	X	256.47028	330.67442	46.75609	11.01108	0.1122093	0.08341878	5.1875245	21	6 9.9	20.4
317079 2001 SU_{255}	16.1	X	208.05864	330.95288	26.77637	14.38380	0.0874803	0.22530897	2.6747532	21	3 26.2	20.2
317080 2001 SZ_{258}	17.1	X	44.10097	13.09967	265.75021	2.38465	0.0682981	0.24505275	2.5290825	21	9 7.5	20.2
317081 2001 SD_{278}	15.7	X	80.02613	184.53391	237.44119	12.21174	0.1604107	0.21389548	2.7690766	21	1 18.3	19.1
317082 2001 SQ_{294}	16.8	X	331.58369	109.89592	179.23367	14.33598	0.1754628	0.23909931	2.5708920	21	5 16.4	19.8
317083 2001 SQ_{303}	16.7	X	157.77807	23.85781	357.75071	2.78465	0.0801523	0.22303410	2.6929102	21	2 26.5	20.4
317084 2001 SS_{303}	16.4	X	309.06258	341.64007	356.27179	3.58512	0.0776754	0.23872084	2.5736086	21	6 30.6	19.5
317085 2001 SH_{309}	17.0	X	128.63448	182.72766	210.25907	5.33320	0.1853382	0.22029737	2.7151667	21	2 18.6	21.0
317086 2001 SX_{322}	16.3	X	286.03713	11.58476	313.02174	6.76081	0.2009307	0.23495064	2.6010676	21	4 17.4	20.1
317087 2001 SY_{337}	15.9	X	226.53436	124.36099	196.96653	8.47243	0.0709261	0.17554039	3.1590125	21	3 1.8	20.7
317088 2001 SA_{342}	16.4	X	325.98543	111.55275	230.26778	8.52247	0.0719857	0.24217699	2.5490643	21	7 30.8	19.6
317089 2001 SW_{344}	15.4	X	273.17351	251.27730	89.96471	15.87142	0.1677808	0.18515751	3.0486565	21	5 10.9	20.1
317090 2001 SP_{349}	16.8	X	174.26712	321.67524	57.65108	7.48849	0.1324857	0.27481795	2.3430020	21	3 14.5	20.3
317091 2001 SO_{351}	16.7	X	82.75165	253.87962	153.30050	11.98119	0.2031883	0.21311736	2.7758128	21	1 12.4	20.0
317092 2001 TV_{1}	16.2	X	208.66127	16.05864	6.75140	11.07740	0.2090316	0.23074264	2.6325956	21	4 17.9	20.7
317093 2001 TX_{11}	17.5	X	169.32304	18.72371	309.09532	0.53191	0.1989860	0.26798586	2.3826566	21	1 6.5	20.9
317094 2001 TQ_{14}	16.5	X	223.75331	16.52028	355.24380	9.13386	0.1339014	0.22970466	2.6405203	21	4 19.9	20.7
317095 2001 TP_{16}	17.1	X	31.50869	295.30692	79.72382	23.64917	0.1190099	0.35187752	1.9870481	21	—	—
317096 2001 TD_{36}	17.5	X	51.08186	20.87564	8.84155	7.21498	0.2670590	0.30577035	2.1820890	21	—	—
317097 2001 TR_{82}	15.7	X	248.18110	107.81136	216.44634	9.19528	0.1403259	0.17953237	3.1120092	21	3 21.4	20.6
317098 2001 TT_{84}	15.7	X	152.74365	260.43002	201.41465	8.78015	0.1013664	0.18030729	3.1030864	21	6 6.2	20.5
317099 2001 TB_{90}	16.1	X	183.78551	100.99865	4.43254	13.41989	0.0391335	0.23633970	2.5908659	21	7 16.9	20.0
317100 2001 TF_{102}	16.5	X	185.99282	11.01282	331.93057	13.79687	0.2054761	0.22153735	2.7050258	21	2 15.5	20.9
317101 2001 TQ_{127}	17.3	X	143.33682	17.65680	358.99083	1.08893	0.1988779	0.26953672	2.3735083	21	2 10.4	20.6
317102 2001 TK_{130}	16.6	X	131.74295	335.53635	46.16232	2.53068	0.1174488	0.21701402	2.7424846	21	2 3.0	20.5
317103 2001 TC_{141}	17.4	X	202.72116	201.39012	96.70507	3.43453	0.2111455	0.27129815	2.3632237	21	—	—
317104 2001 TD_{145}	18.1	X	80.65248	306.60297	82.41581	3.09198	0.1791131	0.31181713	2.1537869	21	—	—
317105 2001 TL_{156}	16.5	X	102.15008	222.27152	201.17600	5.42850	0.0509790	0.21938956	2.7226516	21	2 5.9	20.1
317106 2001 TW_{166}	16.6	X	215.21169	7.89427	338.33371	7.50925	0.2937543	0.22588641	2.6701930	21	3 11.2	21.5
317107 2001 TS_{177}	16.7	X	186.18800	21.14472	0.94172	5.87171	0.0943679	0.22583484	2.6705994	21	3 29.2	20.6
317108 2001 TU_{178}	15.8	X	200.83967	68.10485	348.67800	5.90403	0.1161233	0.18147530	3.0897573	21	5 28.3	20.7
317109 2001 TZ_{198}	16.4	X	199.77068	263.84136	72.04776	7.66071	0.2792089	0.22468844	2.6796756	21	2 21.4	21.3
317110 2001 TR_{201}	15.5	X	234.68759	287.79430	144.36315	10.40643	0.0723233	0.18839423	3.0136373	21	7 26.7	19.9
317111 2001 TE_{221}	16.7	X	99.46289	148.73740	299.31355	4.96012	0.1677328	0.22016843	2.7162267	21	3 22.4	20.4
317112 2001 TY_{221}	15.5	X	222.27912	140.34430	233.07462	9.80611	0.1048482	0.17921954	3.1156295	21	4 27.8	20.3
317113 2001 TQ_{222}	16.2	X	44.39237	224.70756	358.41108	13.08208	0.0877654	0.23479495	2.6022172	21	6 24.2	19.6
317114 2001 TT_{226}	16.5	X	53.39332	315.31651	91.25843	10.85412	0.2645755	0.20939899	2.8085770	21	—	—
317115 2001 TH_{240}	16.1	X	355.83190	122.39004	342.64497	6.28240	0.1197872	0.25873531	2.4391149	21	—	—
317116 2001 TL_{240}	16.2	X	54.10882	189.79991	253.66108	7.19096	0.2023698	0.21238454	2.7821943	21	1 7.9	18.8
317117 2001 TD_{242}	16.2	X	281.39632	350.19010	25.55970	2.50438	0.0770985	0.18824549	3.0152246	21	7 12.6	20.4
317118 2001 TA_{251}	17.3	X	180.88880	247.27429	109.88113	2.52360	0.0928965	0.22284964	2.6943960	21	2 22.5	21.4
317119 2001 TJ_{255}	16.4	X	299.98753	0.72837	104.30370	6.23407	0.0614715	0.20213688	2.8754490	21	12 5.1	20.0
317120 2001 TS_{256}	16.5	X	21.90132	93.51341	336.79665	5.72646	0.0813010	0.25763358	2.4460636	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
317121 2001 TF_{258}	13.4	X	276.39286	186.93337	145.45982	7.52647	0.0574452	0.08485895	5.1286642	21	5 21.2	20.3
317122 2001 TJ_{261}	16.9	X	199.71881	169.58698	181.90416	10.56479	0.1239664	0.22399440	2.6852080	21	3 5.2	21.2
317123 2001 US_{15}	16.8	X	115.83151	18.32661	309.51570	2.00891	0.2237570	0.26015282	2.4302467	21	—	—
317124 2001 UW_{28}	16.0	X	183.85731	15.99568	57.51649	4.82977	0.1583430	0.18047649	3.1011466	21	6 2.4	21.1
317125 2001 UA_{36}	15.0	X	212.43079	282.31585	88.18778	13.06272	0.1977517	0.17672479	3.1448824	21	4 18.6	20.5
317126 2001 UG_{39}	16.5	X	302.33416	353.93363	35.60130	6.62789	0.0822305	0.19169772	2.9789148	21	8 31.5	20.4
317127 2001 UW_{40}	17.1	X	255.06610	232.21211	98.39449	1.75751	0.1593636	0.27923833	2.3182096	21	3 27.7	20.4
317128 2001 UQ_{45}	16.3	X	254.62239	281.10412	56.69818	5.81241	0.1644433	0.22956579	2.6415851	21	4 10.7	20.3
317129 2001 UU_{51}	17.2	X	173.43775	218.68669	99.87005	3.50626	0.2275850	0.26713071	2.3877389	21	1 1.5	20.9
317130 2001 UE_{63}	17.3	X	42.41900	323.15974	29.39241	7.88384	0.2174213	0.30218377	2.1993210	21	—	—
317131 2001 UT_{64}	16.6	X	28.92762	160.90459	228.07993	19.08941	0.1097736	0.35338260	1.9814020	21	—	—
317132 2001 UV_{67}	16.6	X	273.16971	190.09109	147.03672	3.50854	0.0467545	0.23168291	2.6254679	21	5 15.0	20.2
317133 2001 UX_{68}	15.7	X	306.04036	96.80880	195.03423	10.10445	0.0301023	0.18041020	3.1019062	21	5 5.5	20.1
317134 2001 UC_{88}	16.0	X	235.81788	171.87793	188.06446	6.51325	0.0728267	0.18021320	3.1041663	21	4 29.7	20.6
317135 2001 UE_{89}	17.2	X	77.67859	321.50259	100.78240	10.06479	0.1530789	0.26369244	2.4084498	21	1 2.2	19.4
317136 2001 UC_{97}	17.7	X	102.13038	161.07340	192.83020	3.49781	0.1876940	0.31066033	2.1591303	21	—	—
317137 2001 UR_{101}	15.8	X	48.27463	180.33002	33.15980	13.69163	0.1174108	0.23375402	2.6099368	21	6 18.8	19.0
317138 2001 UZ_{119}	16.5	X	100.43561	206.62801	201.49425	12.28954	0.1292030	0.21547499	2.7555278	21	1 25.7	20.4
317139 2001 UO_{123}	15.6	X	250.16370	232.04482	151.81519	15.30931	0.2624677	0.18545013	3.0454487	21	5 28.4	20.9
317140 2001 UU_{128}	16.1	X	239.04804	28.06412	17.85457	15.77168	0.1156861	0.23732915	2.5836598	21	6 23.1	20.2
317141 2001 UD_{130}	15.7	X	224.36933	357.00790	40.28309	11.31381	0.0626643	0.18267945	3.0761647	21	5 31.3	20.3
317142 2001 UR_{147}	12.7	X	332.18148	243.76996	36.77451	30.05746	0.0683013	0.08142521	5.2718550	21	5 19.1	19.5
317143 2001 UF_{158}	16.5	X	257.51659	302.64684	52.82589	6.21076	0.2356212	0.23137743	2.6277783	21	4 27.8	20.6
317144 2001 UQ_{171}	15.9	X	127.81237	80.55388	23.26081	12.93597	0.0323651	0.22662249	2.6644079	21	4 28.4	19.5
317145 2001 UN_{182}	16.1	X	288.23287	187.18809	146.75155	9.20168	0.1054021	0.23565243	2.5959009	21	5 23.1	19.7
317146 2001 UG_{190}	17.1	X	71.86910	278.68020	343.40878	5.97819	0.0276390	0.29450589	2.2373816	21	9 22.9	19.8
317147 2001 UT_{203}	16.5	X	95.81254	136.93163	255.69082	4.62712	0.1186191	0.21317039	2.7753524	21	1 1.6	20.0
317148 2001 UZ_{224}	16.5	X	329.38594	176.99222	158.33642	10.83937	0.0885397	0.23850625	2.5751520	21	7 27.4	19.5
317149 2001 UB_{228}	16.3	X	202.01646	131.63651	283.62700	1.20788	0.1093948	0.18142165	3.0903664	21	5 28.9	21.0
317150 2001 UC_{228}	15.3	X	133.46672	92.87349	0.23324	2.82356	0.2147117	0.12521931	3.9569009	21	5 17.4	21.5
317151 2001 UK_{230}	16.4	X	31.89878	32.57024	79.65195	5.78157	0.0655625	0.21482117	2.7611161	21	1 4.8	19.9
317152 2001 UQ_{230}	17.3	X	166.49223	226.72938	129.12962	6.14877	0.1745129	0.21999229	2.7176764	21	2 12.3	21.6
317153 2001 VY_{13}	15.5	X	197.81303	56.80884	37.02374	16.65661	0.1998888	0.18105929	3.0944883	21	7 10.3	21.0
317154 2001 VB_{39}	16.7	X	24.82588	52.02693	50.73774	6.83056	0.0884431	0.25946643	2.4345308	21	—	—
317155 2001 VC_{69}	16.2	X	207.47340	160.60154	221.72616	3.74638	0.1411315	0.17722080	3.1390116	21	4 23.5	21.3
317156 2001 VT_{71}	15.9	X	262.71073	357.69757	342.17326	14.70503	0.1232916	0.23057726	2.6338542	21	4 17.3	20.0
317157 2001 VS_{75}	16.9	X	293.72353	76.41706	234.81350	1.60126	0.2180092	0.28285126	2.2984266	21	4 4.5	20.1
317158 2001 VK_{87}	16.1	X	74.56812	128.02053	17.42344	5.65816	0.0141285	0.22265983	2.6959270	21	4 12.5	19.7
317159 2001 VZ_{103}	15.5	X	242.41920	332.73785	41.80578	10.12081	0.0634285	0.17945695	3.1128810	21	5 23.9	20.1
317160 2001 VO_{116}	17.3	X	38.42144	354.28660	56.13158	3.57100	0.1690676	0.25492266	2.4633744	21	—	—
317161 2001 VW_{129}	16.0	X	95.68913	30.15477	119.78215	10.88143	0.0296833	0.17842641	3.1248556	21	5 25.3	20.5
317162 2001 VD_{131}	15.4	X	156.94320	347.90565	110.15130	15.18377	0.1226794	0.17767539	3.1336551	21	6 8.7	20.4
317163 2001 VG_{133}	15.8	X	194.50714	346.29700	87.49659	7.50951	0.1132125	0.18240020	3.0793036	21	6 13.5	20.7
317164 2001 WL_{33}	16.3	X	147.73843	297.68922	69.31776	12.08636	0.1036014	0.21560436	2.7544254	21	2 4.1	20.5
317165 2001 WJ_{43}	16.9	X	123.48279	242.34949	70.41138	6.40603	0.0339312	0.30602391	2.1808836	21	—	—
317166 2001 WF_{53}	16.0	X	206.04543	135.47902	262.95167	2.77546	0.1653841	0.17876511	3.1209073	21	5 10.5	21.1
317167 2001 WP_{56}	15.6	X	335.14932	252.85275	38.52406	5.89394	0.0902642	0.18215496	3.0820668	21	6 5.6	19.4
317168 2001 WX_{56}	16.3	X	80.41330	215.13244	232.11010	8.14637	0.1130634	0.21613817	2.7498884	21	2 13.9	19.9
317169 2001 WR_{58}	16.3	X	39.81323	210.06367	24.40225	2.83347	0.1057437	0.23248395	2.6194336	21	7 5.3	19.2
317170 2001 WS_{69}	17.0	X	235.19287	129.85676	227.57493	1.43702	0.1450974	0.22814027	2.6525775	21	4 15.4	21.2
317171 2001 WX_{71}	16.3	X	305.35653	240.48321	73.87943	4.40432	0.1062635	0.23166679	2.6255897	21	5 18.4	19.4
317172 2001 WC_{72}	17.7	X	280.21140	285.35381	58.14023	6.12409	0.1873659	0.28331016	2.2959439	21	5 7.9	20.5
317173 2001 WR_{81}	16.6	X	136.30438	350.63393	73.35114	6.27757	0.0967089	0.22000083	2.7176060	21	4 1.3	20.5
317174 2001 XH_{71}	16.2	X	220.95630	108.92531	230.83594	11.16633	0.1982718	0.22386435	2.6862479	21	3 6.2	21.0
317175 2001 XF_{111}	15.9	X	42.17971	49.72052	85.46563	14.67329	0.1700791	0.21408372	2.7674532	21	3 3.6	19.1
317176 2001 XO_{123}	15.2	X	202.47884	109.08458	234.42285	11.59764	0.1415131	0.17061821	3.2194805	21	2 28.8	20.6
317177 2001 XU_{123}	15.9	X	149.38984	348.79669	101.14797	2.73942	0.1628257	0.17445285	3.1721277	21	5 23.3	21.0
317178 2001 XX_{132}	16.5	X	70.77683	307.74874	100.66092	5.61658	0.1116989	0.20867143	2.8151015	21	—	—
317179 2001 XS_{149}	16.5	X	179.56222	303.72045	86.82943	5.98267	0.0628505	0.22021555	2.7158392	21	4 4.7	20.5
317180 2001 XD_{178}	15.6	X	246.37227	235.64026	269.64245	7.56866	0.0354438	0.19176969	2.9781695	21	11 14.5	19.8
317181 2001 XT_{225}	16.5	X	124.98767	138.07333	251.38743	4.72314	0.0622581	0.21389051	2.7691195	21	1 26.3	20.3
317182 2001 XY_{228}	17.3	X	144.82896	33.85703	30.23149	3.39869	0.1557783	0.27116288	2.3640095	21	4 9.3	20.6
317183 2001 XA_{235}	17.0	X	94.97180	351.64433	20.51430	2.99627	0.1899836	0.25836280	2.4414588	21	—	—
317184 2001 XP_{248}	16.6	X	276.81351	171.27040	106.48549	4.42933	0.0118158	0.21406512	2.7676135	21	3 10.6	20.3
317185 2001 XQ_{258}	15.3	X	233.06862	337.73100	74.67035	18.53596	0.0915027	0.18266678	3.0763069	21	6 27.4	20.0
317186 2001 XY_{258}	16.7	X	194.32500	256.71983	132.45402	7.37575	0.2060088	0.22543865	2.6737274	21	4 20.0	21.3
317187 2001 XF_{262}	15.7	X	339.33182	3.66049	230.09036	17.51110	0.1056190	0.22268464	2.6957268	21	3 14.5	19.4
317188 2001 XA_{266}	17.4	X	22.57236	11.52746	47.72819	3.48026	0.1534489	0.25465699	2.4650874	21	—	—
317189 2001 YG_{2}	17.5	X	36.82158	288.75495	133.16901	7.19030	0.3088522	0.30772658	2.1728315	21	—	—
317190 2001 YK_{2}	16.0	X	288.52921	63.55067	3.21779	15.29992	0.3323806	0.18826930	3.0149704	21	8 23.9	20.1
317191 2001 YE_{55}	16.1	X	208.34120	92.44928	283.51599	6.68926	0.0281481	0.22236460	2.6983128	21	4 12.7	20.0
317192 2001 YO_{77}	17.2	X	55.83186	335.12867	87.22341	2.56844	0.1794122	0.25642193	2.4537630	21	—	—
317193 2001 YR_{80}	16.9	X	294.46780	196.29403	295.98012	7.03548	0.1218960	0.24652038	2.5190348	21	—	—
317194 2001 YG_{103}	16.4	X	358.71559	238.80135	265.22090	5.94254	0.3149601	0.20575830	2.8416100	21	—	—
317195 2001 YJ_{159}	15.8	X	208.87125	1.65894	46.39333	11.35002	0.0520111	0.17303502	3.1894323	21	5 28.6	20.5
317196 2002 AK_{46}	17.3	X	119.53725	2.76649	126.14257	3.14481	0.1180817	0.27150170	2.3620423	21	6 2.6	20.5
317197 2002 AE_{49}	16.1	X	260.33440	152.70792	123.79268	6.05974	0.0252141	0.21039755	2.7996834	21	2 14.5	20.1
317198 2002 AZ_{49}	17.6	X	66.48404	312.62746	131.01660	5.33776	0.0579642	0.30860270	2.1687171	21	—	—
317199 2002 AX_{72}	17.4	X	241.28086	178.13484	1.69669	1.86472	0.0917513	0.29616884	2.2289986	21	—	—
317200 2002 AD_{91}	16.2	X	102.08311	86.46465	268.31380	4.33162	0.2612480	0.25524409	2.4613059	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
317201 2002 AU_{126}	18.5	X	32.65748	258.52456	198.74216	2.24850	0.1119281	0.30639577	2.1791186	21	—	—
317202 2002 AN_{136}	16.5	X	150.10496	282.54675	128.69563	7.02515	0.0536267	0.21614910	2.7497957	21	3 27.5	20.4
317203 2002 AD_{149}	16.9	X	341.49643	78.34255	332.92334	1.02760	0.1391102	0.24418912	2.5350421	21	12 9.9	19.5
317204 2002 AM_{180}	16.0	X	297.82998	319.69798	293.71245	3.50870	0.0196345	0.21362384	2.7714236	21	3 1.8	19.8
317205 2002 AN_{205}	16.9	X	174.60711	286.97390	76.43172	0.55605	0.0873930	0.21307646	2.7761679	21	2 24.0	21.1
317206 2002 CY_{1}	15.5	X	172.39476	249.63266	334.48226	12.75551	0.1802105	0.23824519	2.5770328	21	11 21.9	20.1
317207 2002 CH_{10}	17.1	X	24.26625	35.63438	31.71025	7.79181	0.2711707	0.30161827	2.2020692	21	—	—
317208 2002 CE_{16}	15.5	X	70.43920	52.03886	160.73049	14.70705	0.3663217	0.16999041	3.2274022	21	8 26.1	20.3
317209 2002 CV_{22}	17.3	X	25.62537	119.90881	319.44807	7.33736	0.0942726	0.30004815	2.2097446	21	—	—
317210 2002 CE_{25}	17.5	X	230.38742	283.32581	338.77961	4.81178	0.1598045	0.30041022	2.2079687	21	—	—
317211 2002 CT_{36}	16.9	X	4.64949	146.51836	331.62194	7.60124	0.2747017	0.20255452	2.8714951	21	—	—
317212 2002 CW_{46}	18.7	X	348.89716	71.12571	346.16875	12.23537	0.3439979	0.39658588	1.8347542	21	—	—
317213 2002 CW_{50}	17.7	X	258.98128	202.12807	314.42021	2.48300	0.1889627	0.29209196	2.2496916	21	12 15.5	19.7
317214 2002 CD_{60}	17.0	X	217.70038	188.74133	0.28196	2.61699	0.0722158	0.24209918	2.5496105	21	12 8.8	20.5
317215 2002 CL_{68}	15.9	X	290.06095	164.37498	82.00569	3.04428	0.0548227	0.20877184	2.8141987	21	2 9.7	19.8
317216 2002 CT_{72}	17.8	X	83.89591	337.91329	125.50735	1.59676	0.1363800	0.26200338	2.4187897	21	3 12.3	20.3
317217 2002 CE_{81}	16.1	X	69.49678	341.49185	148.82533	7.53962	0.1880255	0.21174421	2.7878004	21	4 14.1	19.4
317218 2002 CJ_{87}	17.2	X	194.63642	286.10364	134.22304	5.23664	0.2094747	0.27355065	2.3502328	21	5 24.9	21.2
317219 2002 CV_{87}	16.1	X	55.05029	118.27109	332.80628	5.26674	0.0574275	0.20456818	2.8526205	21	1 14.4	19.8
317220 2002 CO_{88}	17.5	X	17.61356	93.53978	339.07136	5.67077	0.1145761	0.29915250	2.2141530	21	—	—
317221 2002 CA_{90}	17.6	X	287.29537	16.76350	136.78608	7.44706	0.1139102	0.29544993	2.2326130	21	—	—
317222 2002 CD_{101}	15.3	X	6.35962	19.45320	148.04898	15.90943	0.0759076	0.20530523	2.8457890	21	2 8.3	18.8
317223 2002 CS_{115}	16.7	X	287.08253	60.94406	167.37464	24.98123	0.1925843	0.30312830	2.1947500	21	—	—
317224 2002 CF_{121}	17.3	X	11.08286	272.03783	148.99164	6.42258	0.1310117	0.29813506	2.2191876	21	—	—
317225 2002 CD_{153}	17.9	X	163.91437	79.03101	159.24382	20.80044	0.0992537	0.38937647	1.8573322	21	—	—
317226 2002 CL_{158}	17.8	X	335.97964	159.45783	351.84505	4.85088	0.0569280	0.30268025	2.1969154	21	—	—
317227 2002 CU_{162}	16.8	X	339.96917	70.22091	18.51297	5.20373	0.1387892	0.24597246	2.5227743	21	—	—
317228 2002 CY_{166}	16.6	X	192.91747	176.59884	37.41832	4.13129	0.1715452	0.23741101	2.5830658	21	12 1.6	20.8
317229 2002 CU_{171}	16.2	X	11.13876	41.75174	96.78483	6.12229	0.1506131	0.20445067	2.8537134	21	1 3.8	19.4
317230 2002 CY_{179}	15.6	X	235.39930	137.38147	313.87333	8.79495	0.0739834	0.17957160	3.1115559	21	8 19.8	20.2
317231 2002 CJ_{180}	17.9	X	268.00164	75.38737	118.66929	5.91064	0.0767909	0.29929735	2.2134385	21	—	—
317232 2002 CS_{184}	16.9	X	340.34673	76.42802	129.19765	7.11031	0.0834670	0.25936542	2.4351628	21	2 8.7	19.6
317233 2002 CB_{186}	17.8	X	323.62024	180.26802	350.30212	4.68493	0.1008292	0.30333855	2.1937357	21	—	—
317234 2002 CD_{189}	17.4	X	318.43888	202.76098	341.17988	5.44270	0.0708703	0.30427253	2.1892442	21	—	—
317235 2002 CZ_{190}	16.3	X	243.45970	245.78719	132.27092	5.51559	0.0733030	0.22201859	2.7011155	21	5 29.2	20.2
317236 2002 CB_{201}	18.3	X	282.02080	13.57469	132.57048	1.03430	0.1419911	0.29416022	2.2391340	21	—	—
317237 2002 CQ_{201}	16.0	X	119.45513	263.76939	129.62139	5.36131	0.0741555	0.20527114	2.8461041	21	1 29.1	19.8
317238 2002 CZ_{205}	16.4	X	349.83609	3.95166	145.67248	9.14708	0.1082216	0.20207058	2.8760780	21	—	—
317239 2002 CJ_{208}	17.9	X	327.28561	339.24361	129.12942	2.10263	0.1173410	0.29579869	2.2308578	21	—	—
317240 2002 CO_{214}	16.1	X	94.38063	227.17282	124.63252	5.05302	0.0550891	0.24485103	2.5304714	21	—	—
317241 2002 CJ_{220}	16.8	X	259.88450	176.49832	17.18703	3.10825	0.1119282	0.24405881	2.5359444	21	—	—
317242 2002 CM_{230}	17.7	X	14.55483	301.46271	147.31698	4.24429	0.1697107	0.29939853	2.2129398	21	—	—
317243 2002 CM_{234}	17.2	X	29.35246	329.30922	130.72897	2.95982	0.0260338	0.20317938	2.8656048	21	—	—
317244 2002 CR_{252}	17.6	X	337.40333	59.85171	84.68309	5.50455	0.0680996	0.30328009	2.1940177	21	—	—
317245 2002 CA_{258}	17.1	X	190.10662	130.44548	135.07070	2.33218	0.1995287	0.24590394	2.5232429	21	—	—
317246 2002 CS_{272}	15.4	X	256.74910	184.09681	34.45778	12.08589	0.1045680	0.19581762	2.9369837	21	—	—
317247 2002 CA_{273}	15.0	X	196.09671	257.55271	267.02973	13.61985	0.0305351	0.18274804	3.0753950	21	10 3.6	19.7
317248 2002 CS_{274}	16.6	X	102.50208	80.76802	141.38166	4.37486	0.0171924	0.22758167	2.6569162	21	9 3.2	20.0
317249 2002 CZ_{290}	15.3	X	331.54217	351.22585	46.46260	9.80291	0.0969571	0.18777696	3.0202381	21	10 23.1	18.9
317250 2002 CA_{291}	17.3	X	342.34921	59.31561	46.80365	7.97282	0.0846520	0.29851893	2.2172847	21	—	—
317251 2002 CU_{291}	15.4	X	222.19778	289.24196	129.11921	9.91508	0.0684865	0.17545618	3.1600232	21	6 26.1	20.1
317252 2002 CT_{307}	16.5	X	108.79461	93.07644	322.74359	11.99584	0.2027003	0.21149176	2.7900185	21	2 27.7	20.4
317253 2002 CM_{310}	16.2	X	192.77088	296.07213	290.01599	6.40950	0.1455550	0.23815077	2.5777140	21	12 18.9	20.2
317254 2002 CH_{315}	17.5	X	273.49753	73.40825	183.38012	4.10244	0.1032571	0.30749772	2.1739094	21	1 8.9	20.4
317255 2002 DJ_{5}	19.8	X	167.71803	296.15636	347.93060	6.43894	0.5676898	0.59484372	1.4002346	21	—	—
317256 2002 DC_{12}	15.9	X	92.38597	27.39207	348.76465	8.29257	0.0580253	0.19999426	2.8959498	21	—	—
317257 2002 EO_{5}	17.3	X	48.20328	238.65208	170.45976	20.94801	0.0553471	0.39879292	1.8279785	21	—	—
317258 2002 EY_{14}	18.2	X	250.07999	201.97470	14.44156	3.46439	0.1707856	0.29831012	2.2183193	21	—	—
317259 2002 EV_{17}	15.7	X	97.13012	237.43322	164.99763	15.10754	0.1572320	0.20145236	2.8819591	21	1 22.9	19.7
317260 2002 EE_{23}	17.0	X	185.76154	117.50141	141.77634	2.57757	0.0227798	0.19306382	2.9648458	21	—	—
317261 2002 EA_{25}	15.7	X	124.46936	138.23377	169.07655	12.65356	0.1395265	0.18771140	3.0209412	21	—	—
317262 2002 EW_{36}	16.4	X	68.18303	333.02069	39.89127	3.57946	0.0484397	0.19178424	2.9780188	21	—	—
317263 2002 EK_{37}	15.9	X	170.50865	224.84201	100.79983	3.37212	0.0537001	0.19851131	2.9103544	21	1 4.8	20.2
317264 2002 EA_{51}	15.7	X	305.70406	30.39360	169.98835	17.89483	0.0742875	0.20060283	2.8900899	21	—	—
317265 2002 EZ_{52}	15.8	X	202.99889	154.03217	158.59088	12.55404	0.0314680	0.20189292	2.8777650	21	1 22.2	20.1
317266 2002 EQ_{63}	17.5	X	81.91258	306.03203	274.62917	1.25873	0.1569882	0.27192903	2.3595671	21	8 27.2	20.5
317267 2002 EY_{63}	17.3	X	26.78531	75.13200	352.00288	8.11322	0.0758158	0.29624217	2.2286308	21	—	—
317268 2002 EF_{69}	16.8	X	159.27212	27.74290	188.23579	5.42750	0.1963304	0.23041500	2.6350906	21	11 4.5	21.2
317269 2002 EZ_{71}	17.2	X	343.56687	299.49726	301.75595	0.61130	0.1548802	0.25964514	2.4334135	21	3 24.9	19.7
317270 2002 EJ_{76}	16.7	X	64.36172	180.09556	279.12618	0.93835	0.0339025	0.20327907	2.8646678	21	2 3.8	20.6
317271 2002 EO_{96}	17.8	X	316.37944	110.91091	352.04566	3.18012	0.1672828	0.29224789	2.2488913	21	—	—
317272 2002 EQ_{106}	16.9	X	163.87693	107.02439	110.38808	6.17825	0.1131392	0.28377278	2.2934480	21	11 19.7	20.3
317273 2002 ED_{110}	17.8	X	305.95506	70.43212	61.91878	2.51307	0.1331891	0.29425824	2.2386367	21	—	—
317274 2002 ED_{116}	17.0	X	146.81656	221.18104	348.73120	4.17962	0.0934138	0.23038376	2.6353288	21	10 14.1	20.9
317275 2002 EL_{118}	16.4	X	277.02678	187.74303	347.09942	12.26357	0.1349787	0.19290588	2.9664639	21	—	—
317276 2002 EB_{123}	16.9	X	44.19516	274.99588	345.57813	6.95753	0.0898135	0.27226064	2.3576508	21	8 20.7	19.5
317277 2002 EQ_{127}	15.9	X	10.33505	80.80847	346.61699	8.97222	0.0155723	0.19316949	2.9637645	21	—	—
317278 2002 EG_{136}	16.1	X	78.94011	326.24222	4.06059	3.94707	0.2153664	0.23734106	2.5835734	21	—	—
317279 2002 EJ_{137}	16.1	X	0.36454	108.14114	359.40795	8.23531	0.0438685	0.19564038	2.9387573	21	—	—
317280 2002 EE_{148}	15.9	X	209.86812	247.30812	2.97405	7.53192	0.1019996	0.19168486	2.9790481	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
317281 2002 EC_{151}	16.8	X	158.22390	74.78334	171.87445	6.78781	0.1035824	0.28583205	2.2824193	21	12 20.4	20.2
317282 2002 EB_{162}	17.4	X	343.09037	76.49827	50.86917	7.39241	0.0793736	0.29784056	2.2206502	21	—	—
317283 2002 ED_{162}	17.8	X	342.72369	309.34756	126.62281	1.90333	0.1454367	0.29296483	2.2452208	21	—	—
317284 2002 FQ_{7}	16.3	X	290.78445	85.29521	151.25624	15.38791	0.1949569	0.20276484	2.8695091	21	1 11.8	20.9
317285 2002 FE_{9}	17.1	X	274.91980	282.22411	268.70997	3.60045	0.1087425	0.29582225	2.2307393	21	—	—
317286 2002 FH_{34}	16.1	X	251.27735	141.65272	63.73302	9.21937	0.1111594	0.24174017	2.5521342	21	—	—
317287 2002 FR_{36}	13.2	X	204.58693	29.89444	159.11940	22.20962	0.0571950	0.08204782	5.2451512	21	11 7.2	20.6
317288 2002 GR_{1}	15.8	X	199.14707	83.69614	107.21236	8.46968	0.0641593	0.18032550	3.1028774	21	11 13.8	20.5
317289 2002 GK_{13}	15.7	X	178.25499	37.23892	201.56212	7.66649	0.1371305	0.18289639	3.0737318	21	12 12.5	20.6
317290 2002 GF_{47}	16.9	X	106.89318	326.79009	24.78702	7.61250	0.1824850	0.29094891	2.2555800	21	—	—
317291 2002 GD_{48}	17.7	X	213.44820	167.20234	12.83285	6.96960	0.0564997	0.28460843	2.2889565	21	11 30.9	20.7
317292 2002 GF_{52}	17.7	X	209.95102	77.13074	198.16257	2.20913	0.2115324	0.29349061	2.2425385	21	—	—
317293 2002 GJ_{60}	15.5	X	287.38391	14.33667	173.44922	18.03037	0.1912101	0.19165922	2.9793137	21	—	—
317294 2002 GN_{60}	15.5	X	99.34291	87.26968	207.44420	10.56606	0.1518443	0.17699186	3.1417179	21	12 6.5	20.5
317295 2002 GG_{69}	17.4	X	244.29393	47.32131	172.10962	7.65037	0.0765199	0.29352715	2.2423524	21	—	—
317296 2002 GJ_{73}	15.2	X	231.16117	86.94555	159.12405	10.04967	0.0333319	0.19265023	2.9690877	21	—	—
317297 2002 GR_{73}	16.9	X	236.16966	248.81175	41.37926	6.70855	0.0971349	0.30041352	2.2079525	21	1 15.6	20.1
317298 2002 GF_{77}	17.2	X	213.28835	118.81174	155.66458	6.81630	0.1757918	0.29482085	2.2357878	21	—	—
317299 2002 GV_{84}	17.4	X	201.45018	153.79319	82.12361	6.41659	0.1748499	0.28793324	2.2713018	21	—	—
317300 2002 GT_{85}	15.4	X	196.02720	86.03031	164.19745	11.38177	0.0660344	0.18807691	3.0170260	21	—	—
317301 2002 GN_{89}	16.5	X	196.98628	250.62048	343.05269	0.90094	0.1419025	0.18526336	3.0474952	21	12 23.5	21.1
317302 2002 GX_{91}	16.0	X	194.46272	88.54721	132.07407	2.57968	0.1486347	0.18321937	3.0701184	21	12 5.7	20.8
317303 2002 GV_{98}	16.4	X	247.87181	331.02235	221.70677	4.68059	0.1885346	0.24024879	2.5626851	21	—	—
317304 2002 GB_{100}	17.4	X	293.66149	316.49536	208.29032	6.39452	0.1167507	0.29472996	2.2362475	21	—	—
317305 2002 GQ_{108}	15.8	X	228.79882	219.61067	42.21334	15.01423	0.0473875	0.24646718	2.5193973	21	—	—
317306 2002 GH_{110}	17.0	X	196.45379	227.58367	27.99480	8.18971	0.1096972	0.29064023	2.2571767	21	—	—
317307 2002 GR_{110}	17.3	X	99.94247	115.00915	114.64580	2.94015	0.1753650	0.27335116	2.3513761	21	10 3.3	20.7
317308 2002 GW_{127}	17.3	X	178.63476	14.54142	279.69097	1.81227	0.1958519	0.29242123	2.2480025	21	—	—
317309 2002 GX_{131}	15.7	X	39.06203	82.82660	19.36669	10.75170	0.0817130	0.19772887	2.9180272	21	1 8.7	19.5
317310 2002 GP_{141}	17.4	X	201.35664	74.78996	189.37078	6.72074	0.1983571	0.29008233	2.2600699	21	—	—
317311 2002 GM_{153}	16.8	X	129.61643	207.19248	111.71062	8.01697	0.1475401	0.28799667	2.2709683	21	—	—
317312 2002 GA_{170}	17.8	X	117.66934	30.06065	232.79034	0.64706	0.1995475	0.27850499	2.3222772	21	11 30.9	21.6
317313 2002 GG_{179}	15.7	X	168.26879	111.69654	178.59457	8.97417	0.0740699	0.18820128	3.0156967	21	—	—
317314 2002 GY_{183}	15.7	X	191.26719	34.36158	200.80561	9.48268	0.0529581	0.18460569	3.0547288	21	12 25.9	20.3
317315 2002 GE_{185}	17.5	X	287.86661	306.70760	206.62254	7.37064	0.0526696	0.29044068	2.2582105	21	—	—
317316 2002 GJ_{188}	13.6	X	294.79680	345.08932	138.92457	7.48071	0.0567719	0.08456750	5.1404410	21	11 29.6	20.4
317317 2002 HU_{3}	15.5	X	152.77742	184.98173	74.83203	12.71121	0.1770468	0.18038242	3.1022246	21	12 12.9	20.6
317318 2002 HG_{11}	15.9	X	140.54240	130.46717	156.00124	17.83744	0.3006513	0.18004088	3.1061467	21	—	—
317319 2002 HH_{15}	16.1	X	207.59475	209.01543	65.24271	13.95130	0.1445099	0.24367543	2.5386036	21	—	—
317320 2002 HY_{16}	16.0	X	275.99851	160.01062	25.56839	9.16695	0.0860659	0.19189980	2.9768232	21	—	—
317321 2002 JZ_{1}	16.6	X	72.88867	58.89436	144.40768	5.33402	0.1367018	0.26475956	2.4019739	21	7 17.4	19.4
317322 2002 JF_{4}	17.0	X	163.83093	92.14482	159.16603	22.68878	0.2489920	0.28246154	2.3005402	21	12 24.9	21.3
317323 2002 JZ_{6}	17.0	X	233.52622	125.65921	135.14049	5.36918	0.2097127	0.24296581	2.5435441	21	—	—
317324 2002 JC_{8}	17.6	X	194.69668	82.84681	154.95329	5.65045	0.2596405	0.28673944	2.2776016	21	—	—
317325 2002 JH_{8}	16.9	X	207.08923	81.19420	177.05890	8.74025	0.1778291	0.29063777	2.2571894	21	—	—
317326 2002 JG_{24}	16.8	X	72.24769	175.91557	71.06329	5.18990	0.1715779	0.26972527	2.3724021	21	9 25.9	19.9
317327 2002 JV_{26}	15.4	X	245.20625	143.21073	99.46356	6.53645	0.2153371	0.19078723	2.9883848	21	—	—
317328 2002 JT_{28}	15.2	X	144.04489	228.01063	55.72139	10.63081	0.0654549	0.18206826	3.0830451	21	—	—
317329 2002 JS_{36}	16.8	X	243.71889	117.06372	99.04209	8.05621	0.0775703	0.29087503	2.2559619	21	—	—
317330 2002 JJ_{58}	16.8	X	350.84756	149.40647	50.13305	21.91084	0.0765703	0.35451383	1.9771848	21	2 3.4	19.3
317331 2002 JD_{67}	17.4	X	58.60227	166.20154	69.84824	2.44798	0.1463126	0.26631486	2.3926129	21	8 16.2	20.0
317332 2002 JB_{72}	15.1	X	154.49996	181.80277	66.04431	27.11564	0.1728973	0.17878879	3.1206318	21	11 30.4	20.4
317333 2002 JN_{84}	17.3	X	191.00962	274.64249	6.81934	1.24750	0.1934417	0.29020682	2.2594235	21	—	—
317334 2002 JH_{87}	17.2	X	212.35930	359.75701	233.21379	8.03562	0.0847221	0.28822035	2.2697932	21	—	—
317335 2002 JT_{94}	16.0	X	242.71329	245.88188	230.98312	11.18216	0.0285842	0.22415971	2.6838878	21	10 9.2	19.8
317336 2002 JC_{101}	15.7	X	171.13758	105.63505	153.38756	19.78131	0.2723732	0.18078569	3.0976096	21	12 25.4	21.5
317337 2002 JB_{103}	15.8	X	248.23815	351.87299	232.68204	7.44343	0.2399371	0.18836593	3.0139391	21	—	—
317338 2002 JD_{103}	17.3	X	71.76628	82.12808	144.45188	3.06556	0.1543144	0.26662851	2.3907362	21	8 22.0	20.3
317339 2002 JA_{104}	15.0	X	120.35307	227.78226	69.59878	12.03157	0.0702781	0.17921117	3.1157265	21	12 23.6	19.7
317340 2002 JW_{120}	17.8	X	93.96640	99.95676	194.56956	21.50645	0.0944471	0.38221984	1.8804447	21	12 29.5	20.7
317341 2002 JO_{122}	15.2	X	150.10076	151.96196	106.17335	18.57464	0.1801473	0.17956851	3.1115916	21	12 11.4	20.6
317342 2002 JZ_{122}	15.1	X	140.54398	205.25739	65.67132	18.38136	0.1914965	0.18016841	3.1046807	21	12 14.8	20.4
317343 2002 JA_{137}	15.3	X	82.93975	89.56765	236.83714	8.90214	0.0589575	0.17952006	3.1121515	21	12 16.9	19.8
317344 2002 JN_{147}	16.3	X	279.94063	138.80886	34.55262	12.63564	0.2575923	0.19032430	2.9932286	21	—	—
317345 2002 KB_{1}	17.2	X	242.92880	258.50960	58.67068	22.42803	0.0966500	0.35454989	1.9770507	21	3 4.1	20.4
317346 2002 KK_{15}	16.6	X	242.07184	124.28077	67.26986	17.13204	0.2222184	0.18537009	3.0463253	21	12 9.4	21.2
317347 2002 LF_{27}	16.1	X	177.67161	38.52735	254.21674	3.67747	0.2765863	0.18316412	3.0707358	21	—	—
317348 2002 LC_{32}	17.0	X	193.78401	127.12399	92.44862	6.11435	0.1145308	0.28324486	2.2962968	21	12 22.9	19.9
317349 2002 LB_{38}	15.8	X	15.83257	146.79486	172.08774	12.33942	0.1479491	0.21678387	2.7444252	21	9 28.5	18.8
317350 2002 LV_{38}	17.0	X	137.70513	98.08939	198.47804	4.68872	0.2895878	0.27981063	2.3150475	21	—	—
317351 2002 LX_{44}	17.4	X	205.99751	110.10820	136.13424	10.71837	0.1819126	0.28775277	2.2722514	21	—	—
317352 2002 LT_{60}	17.8	X	140.28002	198.48075	60.50722	2.99383	0.1922702	0.27982347	2.3149767	21	12 15.1	21.5
317353 2002 LL_{62}	17.7	X	143.09946	176.14288	61.89650	3.06626	0.1698266	0.27475264	2.3433733	21	11 21.5	21.5
317354 2002 LB_{64}	16.2	X	19.02628	198.16056	137.13454	6.65318	0.0480566	0.22124371	2.7074187	21	10 16.8	19.7
317355 2002 LU_{64}	15.2	X	130.43238	232.70373	109.04700	11.19084	0.1043474	0.18492765	3.0511822	21	—	—
317356 2002 MD_{7}	15.0	X	250.30597	138.47547	198.74293	3.08711	0.0822188	0.14473689	3.5926636	21	4 19.0	20.2
317357 2002 MN_{7}	15.4	X	156.27184	299.32640	75.44647	13.01370	0.0774637	0.18875788	3.0097655	21	2 26.5	20.1
317358 2002 NW_{1}	17.2	X	28.12027	174.20072	128.53477	5.72234	0.1973057	0.26432719	2.4045925	21	10 14.2	19.7
317359 2002 NJ_{9}	16.5	X	114.56422	174.21085	95.52420	24.41609	0.1762449	0.27634865	2.3343420	21	12 8.8	20.4
317360 2002 NZ_{9}	17.1	X	80.24024	147.55597	128.58568	7.99093	0.1652971	0.26945331	2.3739981	21	11 11.7	20.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
317361 2002 NF_{13}	17.4	X	129.00320	191.50482	108.25200	3.31364	0.2324264	0.27847400	2.3224495	21	—	—
317362 2002 NZ_{15}	16.8	X	232.83417	177.60502	94.46208	4.38000	0.2183163	0.23975260	2.5662197	21	—	—
317363 2002 NU_{21}	17.2	X	122.03945	150.50624	143.71299	4.68828	0.2445699	0.27677800	2.3319273	21	—	—
317364 2002 NH_{29}	17.0	X	92.18633	359.52384	306.04263	5.16241	0.1336184	0.27342702	2.3509412	21	12 26.2	20.4
317365 2002 NK_{34}	15.2	X	156.86527	141.16332	138.81083	17.84193	0.2163697	0.17630288	3.1498977	21	—	—
317366 2002 NG_{41}	16.6	X	275.49064	279.41721	336.17194	7.20435	0.1353293	0.24240512	2.5474648	21	1 20.8	20.4
317367 2002 NX_{57}	17.6	X	95.05359	167.86123	132.90744	3.00063	0.2007904	0.27333360	2.3514768	21	12 26.9	21.3
317368 2002 NO_{60}	16.7	X	103.61222	182.29932	99.88435	7.55240	0.0966355	0.27292872	2.3538018	21	12 6.4	20.0
317369 2002 NP_{60}	17.6	X	120.77006	11.12802	245.77314	1.93248	0.1798974	0.27222912	2.3578328	21	11 24.8	21.2
317370 2002 NE_{61}	15.7	X	116.96619	44.90895	319.26134	11.43961	0.1068351	0.17940716	3.1134570	21	1 2.1	20.2
317371 2002 NJ_{61}	17.7	X	124.97255	124.25494	119.44851	1.45584	0.1770355	0.27150972	2.3619959	21	11 12.6	21.3
317372 2002 NS_{63}	16.6	X	296.85527	310.15290	24.78086	2.13831	0.0702467	0.20353216	2.8622925	21	6 9.7	20.4
317373 2002 NE_{66}	16.5	X	184.73036	184.24103	95.44307	2.97529	0.2324101	0.18049504	3.1009340	21	—	—
317374 2002 NP_{70}	16.6	X	182.28019	156.94498	234.91246	5.34214	0.2854482	0.24299416	2.5433462	21	4 9.8	21.2
317375 2002 NH_{74}	16.4	X	60.40128	316.37225	293.57366	3.37354	0.0633955	0.20872200	2.8146468	21	8 19.1	20.1
317376 2002 NS_{74}	16.1	X	306.27908	26.25205	305.21172	7.04473	0.0687250	0.20309028	2.8664429	21	6 19.1	19.9
317377 2002 ND_{79}	17.3	X	249.32533	299.26666	103.01290	24.00338	0.0933683	0.36155629	1.9514261	21	7 3.7	19.4
317378 2002 OT_{22}	15.4	X	67.27219	164.74531	222.16945	24.50453	0.2500486	0.27480463	2.3430777	21	—	—
317379 2002 OW_{22}	15.9	X	29.49198	161.84788	189.19119	26.75734	0.3615398	0.26778904	2.3838240	21	—	—
317380 2002 OM_{27}	16.5	X	198.83412	234.30867	121.35634	4.03804	0.1910221	0.24253947	2.5465240	21	3 11.1	20.7
317381 2002 OQ_{28}	17.4	X	237.20705	217.39069	145.13911	20.63239	0.2836399	0.24621978	2.5210846	21	4 20.9	22.2
317382 2002 OG_{32}	16.4	X	277.01224	189.74997	130.07794	2.98011	0.0806656	0.19773276	2.9179889	21	4 25.1	20.6
317383 2002 OK_{32}	17.6	X	193.11619	51.62101	252.40734	6.52581	0.1368777	0.28687950	2.2768602	21	—	—
317384 2002 OA_{35}	16.1	X	199.30009	120.71784	123.97105	2.28327	0.1744273	0.17775288	3.1327444	21	—	—
317385 2002 OA_{36}	16.3	X	266.96366	116.60675	249.15855	0.72771	0.1179291	0.20031766	2.8928320	21	6 4.4	20.5
317386 2002 OD_{36}	16.5	X	218.30141	30.35105	84.49827	2.55974	0.0200622	0.21122133	2.7923994	21	9 9.1	20.3
317387 2002 OG_{36}	16.0	X	227.79000	250.78566	18.00113	2.47139	0.0848032	0.18378530	3.0638127	21	1 1.2	20.7
317388 2002 OP_{36}	17.5	X	244.79777	225.94987	182.90499	4.11753	0.0815824	0.30723760	2.1751363	21	7 8.3	20.1
317389 2002 PS_{2}	16.0	X	307.24928	85.09449	239.76245	11.04130	0.1374769	0.20145756	2.8819095	21	6 1.3	19.7
317390 2002 PQ_{3}	16.0	X	120.44520	57.58924	242.22873	4.09648	0.1681713	0.17233945	3.1980083	21	12 30.4	21.3
317391 2002 PK_{7}	17.7	X	64.77995	106.65228	136.11634	26.37597	0.1039611	0.36525568	1.9382274	21	9 8.7	19.8
317392 2002 PQ_{39}	15.4	X	187.14770	182.34603	139.09039	10.19392	0.2018566	0.18360039	3.0658694	21	1 25.9	20.7
317393 2002 PV_{48}	16.8	X	29.34484	27.44844	277.84507	7.14636	0.2352264	0.26205268	2.4184864	21	10 19.6	19.5
317394 2002 PZ_{48}	16.6	X	116.31145	124.38989	172.04532	22.43259	0.2588004	0.27418489	2.3466070	21	—	—
317395 2002 PN_{81}	16.2	X	276.87544	57.42038	194.72625	9.53461	0.0417660	0.18822429	3.0154510	21	2 2.8	20.7
317396 2002 PX_{83}	17.2	X	101.18018	197.22124	115.85443	3.61995	0.2133987	0.27410289	2.3470750	21	—	—
317397 2002 PP_{89}	16.0	X	217.45113	103.57556	202.52321	14.43550	0.1569950	0.23780542	2.5802090	21	1 22.2	20.5
317398 2002 PY_{96}	16.3	X	6.78388	4.00697	354.86443	9.70327	0.2280510	0.26478763	2.4018041	21	11 26.9	18.8
317399 2002 PC_{113}	17.3	X	74.23982	301.03622	316.36375	17.89805	0.0594928	0.36620752	1.9348674	21	9 23.0	19.7
317400 2002 PE_{114}	17.9	X	115.60527	105.15104	170.51137	1.42700	0.1653801	0.27322431	2.3521038	21	12 12.9	21.4
317401 2002 PG_{114}	17.1	X	87.77370	103.34675	143.83514	6.78291	0.0883442	0.26448003	2.4036660	21	10 2.8	20.4
317402 2002 PF_{122}	16.9	X	69.71542	65.90867	251.34006	5.27333	0.1717865	0.26975309	2.3722389	21	12 20.5	20.4
317403 2002 PV_{131}	16.6	X	30.34432	356.61283	346.05487	6.07193	0.1497783	0.26798752	2.3826468	21	12 1.4	19.6
317404 2002 PT_{132}	17.8	X	150.73064	128.62510	135.75959	2.04619	0.3022301	0.27834387	2.3231733	21	12 27.2	22.0
317405 2002 PW_{135}	15.4	X	101.43980	283.98751	48.39667	6.27800	0.1724417	0.17132064	3.2106743	21	—	—
317406 2002 PE_{136}	16.8	X	89.82011	239.72725	80.48297	4.26528	0.1920235	0.27322423	2.3521043	21	—	—
317407 2002 PY_{150}	17.1	X	21.45075	151.57595	146.10821	3.21021	0.0813848	0.26068246	2.4269538	21	9 4.2	19.5
317408 2002 PW_{158}	16.2	X	172.93317	300.94093	318.66272	12.52446	0.2608501	0.17596479	3.1539311	21	12 27.0	21.9
317409 2002 PM_{159}	17.6	X	211.62615	253.82257	110.80763	4.96863	0.2964253	0.24320726	2.5418604	21	4 1.4	22.3
317410 2002 PV_{174}	16.5	X	130.65918	235.33909	49.48260	5.33565	0.0849110	0.22330642	2.6907204	21	12 28.3	20.6
317411 2002 PP_{175}	15.7	X	137.21953	359.76183	342.17550	10.28756	0.0829753	0.17902015	3.1179425	21	—	—
317412 2002 PC_{176}	16.2	X	282.45844	128.50532	236.12189	6.73911	0.0958486	0.20348546	2.8627304	21	6 25.5	20.0
317413 2002 PG_{190}	15.3	X	239.84314	215.40648	44.38613	6.72566	0.1164749	0.18358532	3.0660372	21	1 1.4	20.2
317414 2002 PM_{194}	16.6	X	227.26859	211.28392	104.40781	10.62254	0.1428989	0.23970198	2.5665810	21	2 17.4	20.7
317415 2002 PV_{194}	15.4	X	177.92960	266.52962	309.78961	7.45843	0.0873507	0.16981903	3.2295733	21	11 14.2	20.4
317416 2002 PB_{195}	18.0	X	140.35043	111.13641	145.67707	1.94007	0.1537394	0.27491962	2.3424243	21	12 12.4	21.5
317417 2002 PE_{195}	16.8	X	306.43239	13.69950	280.90274	0.86470	0.0347939	0.19851977	2.9102717	21	5 5.8	20.8
317418 2002 PG_{196}	16.8	X	100.78251	309.21664	67.11874	7.52683	0.1554892	0.22817802	2.6522849	21	—	—
317419 2002 PD_{197}	17.0	X	269.65288	45.17670	201.09834	3.53585	0.1369494	0.24015218	2.5633723	21	1 1.9	20.9
317420 2002 PG_{197}	16.4	X	163.13363	259.02425	148.04908	9.53017	0.1864483	0.24321902	2.5417785	21	4 13.6	20.6
317421 2002 PM_{198}	17.8	X	179.95397	25.46163	212.88286	2.77718	0.1570115	0.27710640	2.3300846	21	12 26.6	21.2
317422 2002 PE_{199}	16.5	X	276.87226	195.98840	138.66971	10.55814	0.1107297	0.19891356	2.9064295	21	5 12.0	20.8
317423 2002 QA_{8}	17.8	X	116.41773	292.14493	43.50463	3.16605	0.2365427	0.27811003	2.3244754	21	—	—
317424 2002 QV_{10}	16.9	X	192.97576	186.01040	178.59837	4.48820	0.2076012	0.24122882	2.5557395	21	3 15.9	21.3
317425 2002 QW_{10}	16.7	X	178.44279	302.38314	289.89010	5.77129	0.0787296	0.27564113	2.3383348	21	12 24.2	19.7
317426 2002 QT_{15}	17.2	X	306.36209	15.37232	339.79993	18.69327	0.0572902	0.35978831	1.9578136	21	8 4.5	19.0
317427 2002 QX_{17}	17.2	X	78.02812	138.35403	157.30357	0.69882	0.2057297	0.26857711	2.3791585	21	12 5.1	20.7
317428 2002 QX_{18}	17.3	X	149.36876	213.97729	61.94842	3.23702	0.1794086	0.27675527	2.3320550	21	—	—
317429 2002 QH_{23}	16.8	X	158.15263	41.65810	340.82509	4.12085	0.1392283	0.23758104	2.5818333	21	3 2.9	20.7
317430 2002 QE_{25}	17.3	X	97.34369	203.35357	145.30977	6.79761	0.1489661	0.27776608	2.3263939	21	—	—
317431 2002 QW_{25}	16.0	X	126.51683	61.64632	315.42273	0.17159	0.1748101	0.17947889	3.1126274	21	2 4.2	20.7
317432 2002 QB_{29}	16.4	X	202.56277	20.41779	347.98290	1.17795	0.1271382	0.18978362	2.9989109	21	4 1.6	21.2
317433 2002 QS_{33}	15.4	X	62.38905	274.98869	121.76060	6.30562	0.1364477	0.17290474	3.1910342	21	—	—
317434 2002 QX_{35}	15.8	X	191.64813	288.48827	355.26361	16.52565	0.2315918	0.17887583	3.1196194	21	—	—
317435 2002 QN_{49}	16.7	X	107.60086	286.47223	125.61373	5.59247	0.1672427	0.23230089	2.6208095	21	2 15.9	19.9
317436 2002 QJ_{51}	17.1	X	209.66140	149.48132	240.03388	4.64845	0.2167426	0.24507835	2.5289064	21	4 27.9	21.3
317437 2002 QN_{60}	16.4	X	41.84531	56.94991	250.38849	3.35700	0.0547456	0.21180141	2.7872985	21	10 7.0	20.1
317438 2002 QQ_{77}	16.1	X	139.29618	239.31857	139.11919	10.67193	0.1194921	0.18305373	3.0719701	21	2 12.4	20.7
317439 2002 QM_{80}	16.7	X	43.55934	42.65842	288.45520	4.76054	0.0404682	0.21535329	2.7565659	21	11 7.4	20.4
317440 2002 QH_{82}	16.0	X	163.73924	228.64525	27.13018	5.45830	0.1416761	0.17147047	3.2088038	21	12 16.6	21.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
317441 2002 QR_{91}	17.3	X	194.54785	212.42926	50.52805	6.35528	0.1290026	0.28048155	2.3113543	21	—	—
317442 2002 QY_{102}	16.8	X	59.61885	194.05579	121.01555	7.26957	0.1095909	0.26760848	2.3848961	21	11 29.8	20.0
317443 2002 QC_{110}	16.7	X	355.23831	31.65097	297.92735	2.81004	0.1014253	0.20872994	2.8145753	21	8 31.1	20.0
317444 2002 QZ_{110}	17.3	X	40.35761	225.13187	165.33939	5.96436	0.1273527	0.27504598	2.3417068	21	—	—
317445 2002 QG_{112}	16.1	X	168.37101	227.19123	167.40992	6.90139	0.1499155	0.18903631	3.0068094	21	4 3.6	20.9
317446 2002 QY_{113}	17.5	X	228.27692	185.40486	229.29933	6.66909	0.1183267	0.25199167	2.4824390	21	6 22.4	21.2
317447 2002 QF_{124}	15.9	X	102.61500	109.68283	260.74743	3.69715	0.0824796	0.17801354	3.1296855	21	—	—
317448 2002 QH_{125}	14.8	X	227.74817	309.77715	153.97258	15.37744	0.0974964	0.15444913	3.4404274	21	8 23.6	20.1
317449 2002 QJ_{137}	16.1	X	290.08624	128.49408	142.61362	6.00367	0.1156018	0.19046835	2.9917193	21	3 6.8	20.5
317450 2002 QM_{137}	17.2	X	97.56414	345.38542	252.85021	2.24682	0.1321127	0.26457225	2.4031075	21	10 4.2	20.5
317451 2002 QR_{138}	16.8	X	254.39556	80.45440	148.41649	6.63012	0.1245884	0.23449689	2.6044218	21	—	—
317452 Wurukang	17.0	X	189.68176	90.45204	316.32483	15.93074	0.1732038	0.24417616	2.5351318	21	4 25.8	21.6
317453 2002 QK_{146}	16.5	X	32.54200	257.61238	46.19559	1.98333	0.0501600	0.21052032	2.7985949	21	9 21.0	20.1
317454 2002 QT_{146}	16.3	X	226.02452	194.16496	121.97493	3.96542	0.1011744	0.18810791	3.0166946	21	2 23.0	21.0
317455 2002 QE_{149}	16.8	X	263.75907	337.97341	354.75613	9.03943	0.1827317	0.30053812	2.2073422	21	4 1.4	20.0
317456 2002 RP	18.5	X	68.53826	230.17700	72.82406	0.67218	0.1294202	0.31750992	2.1279652	21	12 4.4	21.0
317457 2002 RH_{11}	16.2	X	240.46261	130.44410	162.33097	5.55485	0.1995953	0.18705313	3.0280246	21	2 3.1	21.4
317458 2002 RJ_{18}	17.4	X	58.11581	167.53160	142.79741	3.57897	0.2411956	0.26671143	2.3902407	21	12 7.7	20.8
317459 2002 RY_{21}	17.5	X	35.28969	170.26958	142.40239	1.96037	0.1994640	0.26358437	2.4091080	21	11 6.7	20.2
317460 2002 RF_{50}	17.0	X	34.69099	163.08555	157.65066	5.43808	0.2503192	0.26401077	2.4065134	21	11 25.6	19.9
317461 2002 RG_{60}	16.3	X	40.77480	328.98153	13.80298	9.33673	0.2507210	0.26662777	2.3907406	21	12 31.7	19.8
317462 2002 RS_{68}	17.3	X	330.74954	197.16078	171.14946	22.09464	0.0572153	0.36433976	1.9414744	21	10 11.1	18.9
317463 2002 RF_{123}	16.8	X	67.49645	312.18988	82.91016	6.40453	0.1697521	0.27577258	2.3375917	21	—	—
317464 2002 RL_{127}	16.9	X	92.11932	151.31632	228.90208	9.09398	0.2511322	0.27867715	2.3213207	21	—	—
317465 2002 RY_{129}	16.5	X	140.63473	332.23675	25.79505	12.89302	0.3620736	0.23006076	2.6377948	21	2 12.2	21.2
317466 2002 RK_{137}	16.7	X	63.49053	352.81610	280.94829	6.61811	0.1297825	0.26213283	2.4179934	21	10 7.4	19.9
317467 2002 RL_{142}	15.2	X	55.85779	54.53915	338.32281	18.06390	0.1230899	0.17003316	3.2268613	21	—	—
317468 2002 RM_{142}	17.4	X	155.98665	290.12906	330.67717	9.87124	0.2381664	0.27535496	2.3399547	21	12 29.3	21.5
317469 2002 RJ_{143}	17.0	X	159.66645	324.69817	305.69846	4.69844	0.1504493	0.27558826	2.3386339	21	—	—
317470 2002 RK_{147}	16.8	X	356.15684	31.62796	353.01478	3.72960	0.1097021	0.21254144	2.7808248	21	11 17.1	20.1
317471 2002 RV_{158}	14.9	X	343.15806	8.75097	345.09352	13.35651	0.0554047	0.15374768	3.4508838	21	9 8.9	19.5
317472 2002 RX_{163}	16.9	X	141.53745	107.90460	171.51468	6.83613	0.1665132	0.27477435	2.3432498	21	—	—
317473 2002 RW_{173}	16.5	X	175.22458	156.41165	191.38153	8.64993	0.0537278	0.23511345	2.5998666	21	1 28.0	20.3
317474 2002 RE_{175}	16.3	X	6.37465	18.07699	322.47889	8.24220	0.1580294	0.20958535	2.8069118	21	10 6.3	19.5
317475 2002 RH_{192}	17.3	X	83.94135	273.25631	8.08180	2.51114	0.1699189	0.26701295	2.3884409	21	11 18.7	20.8
317476 2002 RX_{192}	17.1	X	165.31866	275.04439	6.09460	7.43849	0.1015182	0.27778889	2.3262665	21	—	—
317477 2002 RT_{198}	16.5	X	23.56416	337.23167	9.89199	4.33795	0.0809307	0.21246794	2.7814661	21	11 6.3	20.0
317478 2002 RF_{216}	17.4	X	240.94337	73.99971	359.81713	19.30317	0.0757159	0.36105147	1.9532446	21	8 23.2	19.7
317479 2002 RT_{219}	16.0	X	235.22722	146.80442	159.60689	10.06255	0.1749043	0.18756181	3.0225473	21	2 15.5	20.9
317480 2002 RV_{239}	18.0	X	68.47337	152.53225	142.67444	3.06240	0.1798353	0.26731090	2.3866657	21	11 22.7	21.3
317481 2002 RO_{248}	16.4	X	213.77188	208.54607	171.72593	2.53557	0.1360794	0.19271562	2.9684161	21	4 26.9	21.0
317482 2002 RQ_{262}	16.5	X	341.12322	340.47005	197.40226	9.03310	0.0380044	0.23341307	2.6124778	21	1 13.8	20.1
317483 2002 RX_{264}	16.1	X	81.94267	356.83133	48.66979	2.24042	0.1139417	0.17584593	3.1553522	21	1 7.7	20.1
317484 2002 RS_{271}	15.5	X	118.23387	83.25286	162.26202	14.89959	0.1675709	0.16394265	3.3062936	21	10 30.9	21.0
317485 2002 RD_{283}	16.5	X	286.45310	208.89919	151.48424	2.91425	0.0705014	0.19851034	2.9103639	21	6 29.5	20.4
317486 2002 RH_{290}	15.5	X	170.74188	178.47093	140.04614	17.33226	0.1213752	0.17792443	3.1307303	21	1 5.9	20.6
317487 2002 RW_{290}	16.6	X	358.64236	216.11729	56.50811	7.50643	0.1055957	0.25357754	2.4720781	21	6 15.7	19.0
317488 2002 SX_{5}	17.3	X	41.23493	119.54300	219.22551	1.00320	0.1842863	0.26556632	2.3971068	21	12 16.8	20.3
317489 2002 SD_{8}	16.7	X	355.02078	301.54471	7.04808	4.62502	0.1822403	0.25521790	2.4614743	21	8 7.8	18.6
317490 2002 SJ_{9}	16.0	X	134.96965	306.56284	52.65008	1.65174	0.1904566	0.17624306	3.1506104	21	1 25.5	20.9
317491 2002 SO_{11}	17.0	X	306.18618	330.99805	32.39428	5.26806	0.0943993	0.25359058	2.4719934	21	8 1.9	19.9
317492 2002 SL_{17}	17.0	X	138.12405	254.37740	192.76016	4.57366	0.2544926	0.23788618	2.5796250	21	5 13.9	21.3
317493 2002 SU_{34}	16.3	X	146.98497	258.61145	9.14093	23.16422	0.2503699	0.27444050	2.3451498	21	12 31.2	20.9
317494 2002 SL_{39}	15.2	X	211.67550	98.03909	180.61613	19.18818	0.1913931	0.17892427	3.1190563	21	—	—
317495 2002 SO_{51}	17.6	X	321.86970	24.55931	289.59780	4.00160	0.1521119	0.30459354	2.1877058	21	6 1.3	19.5
317496 2002 SO_{52}	17.4	X	275.76316	250.47559	112.23984	6.85001	0.2017790	0.30271328	2.1967555	21	5 27.4	20.2
317497 2002 SD_{69}	17.5	X	152.01282	151.16120	291.73468	0.54739	0.0799362	0.24242700	2.5473115	21	5 6.7	20.9
317498 2002 SJ_{70}	16.3	X	78.95148	61.90584	11.74073	7.48726	0.1137811	0.17774074	3.1328869	21	2 9.1	20.4
317499 2002 TW	16.7	X	178.46236	255.52370	171.04786	11.58952	0.2621103	0.24180086	2.5517071	21	5 22.2	21.4
317500 2002 TN_{1}	17.1	X	170.53285	21.70716	8.46674	5.02202	0.2716295	0.23627694	2.5913246	21	3 31.5	21.6
317501 2002 TZ_{3}	16.9	X	190.83936	308.81936	45.87709	3.70186	0.2089353	0.23574387	2.5952295	21	3 4.7	21.3
317502 2002 TK_{5}	17.1	X	157.84265	256.63429	107.16165	2.94544	0.2288676	0.28429011	2.2906648	21	2 10.1	20.5
317503 2002 TS_{10}	17.2	X	54.45209	273.90576	14.50967	19.61135	0.0514111	0.36544132	1.9375710	21	10 18.3	19.0
317504 2002 TJ_{15}	16.8	X	21.11086	287.85500	36.64442	6.44134	0.2187681	0.26202236	2.4186730	21	11 2.8	19.0
317505 2002 TH_{18}	17.2	X	4.49980	336.63473	338.24874	1.03915	0.1712591	0.25755792	2.4465426	21	9 7.4	19.2
317506 2002 TO_{22}	16.8	X	31.90862	119.29820	218.27856	2.20113	0.1742126	0.26363116	2.4088230	21	12 1.2	19.7
317507 2002 TM_{31}	16.9	X	29.40183	165.33145	177.51766	4.22422	0.2327129	0.26365836	2.4086573	21	12 14.2	19.8
317508 2002 TQ_{31}	17.4	X	225.18686	196.15376	197.25743	22.29011	0.1212151	0.34959804	1.9956761	21	5 18.2	20.3
317509 2002 TO_{33}	17.5	X	123.83593	116.78879	205.18845	4.95402	0.2597240	0.27686043	2.3314644	21	—	—
317510 2002 TJ_{54}	16.1	X	57.74788	0.70482	34.78246	14.67540	0.1317122	0.21960691	2.7208549	21	—	—
317511 2002 TX_{67}	16.2	X	222.12907	80.40442	288.23472	20.85857	0.1444689	0.24073247	2.5592513	21	4 5.2	20.8
317512 2002 TL_{71}	16.8	X	171.12686	26.78999	352.59215	12.22460	0.2634580	0.23553258	2.5967814	21	3 18.2	21.2
317513 2002 TT_{72}	16.7	X	38.96955	22.32735	297.47504	5.69269	0.1437378	0.26156796	2.4214733	21	11 9.5	19.7
317514 2002 TQ_{75}	15.7	X	45.37036	337.96432	229.82830	6.87627	0.1479744	0.24555788	2.5256130	21	6 10.7	18.3
317515 2002 TF_{82}	16.5	X	94.34593	58.03909	204.41247	3.81651	0.0656334	0.26152265	2.4217530	21	10 25.9	19.6
317516 2002 TN_{87}	17.3	X	96.72860	300.57287	16.62326	2.31680	0.2668984	0.27182740	2.3601552	21	—	—
317517 2002 TK_{101}	17.1	X	153.41572	206.94733	220.01966	4.65845	0.2562027	0.23785114	2.5798783	21	5 1.1	21.4
317518 2002 TX_{123}	16.9	X	185.11491	40.26791	342.55904	15.52036	0.2104092	0.23883155	2.5728132	21	3 27.0	21.3
317519 2002 TS_{142}	16.8	X	91.38749	199.86499	137.86336	6.67485	0.1315704	0.27326009	2.3518985	21	—	—
317520 2002 TR_{147}	15.8	X	241.43090	101.52189	222.21526	8.56214	0.0760444	0.18655698	3.0333910	21	3 17.9	20.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
317521 2002 TM_{148}	16.7	X	24.02676	4.90819	293.84498	12.16680	0.1664717	0.26039532	2.4287376	21	9 13.9	19.4
317522 2002 TS_{162}	16.6	X	119.40925	321.86302	96.85086	15.33542	0.2497563	0.23082901	2.6319388	21	3 29.3	20.9
317523 2002 TE_{174}	16.5	X	41.85595	236.53693	74.97061	8.17335	0.3033254	0.21214277	2.7843077	21	11 21.1	20.3
317524 2002 TK_{184}	15.0	X	323.91085	17.13164	342.92298	10.90693	0.1361774	0.15065501	3.4979505	21	8 15.9	19.3
317525 2002 TL_{197}	17.2	X	196.80197	67.10235	345.59385	3.13948	0.1313493	0.29603356	2.2296776	21	5 13.8	20.5
317526 2002 TV_{204}	17.1	X	90.20513	197.98824	117.16993	6.08617	0.2419628	0.27049164	2.3679188	21	—	—
317527 2002 TM_{226}	16.9	X	135.02157	244.82282	162.90421	5.46572	0.3594202	0.23129854	2.6283758	21	4 2.5	21.4
317528 2002 TP_{236}	15.0	X	129.22432	73.99265	266.95311	12.25718	0.1431445	0.17168121	3.2061773	21	—	—
317529 2002 TR_{239}	16.8	X	69.04992	106.67600	234.95043	7.07364	0.2148384	0.26908111	2.3761868	21	—	—
317530 2002 TE_{269}	17.2	X	175.22126	101.41511	298.93944	3.44705	0.2992620	0.23842737	2.5757200	21	4 15.4	22.0
317531 2002 TB_{280}	17.6	X	281.93218	115.39262	278.60917	3.99231	0.1342689	0.30503238	2.1856071	21	7 31.6	19.9
317532 2002 TP_{288}	15.8	X	125.16161	213.99942	230.12681	32.07383	0.2275935	0.23308485	2.6149297	21	4 24.3	20.0
317533 2002 TS_{307}	16.5	X	259.87258	151.68379	123.92746	5.64243	0.2497188	0.23737742	2.5833096	21	1 21.6	20.9
317534 2002 TR_{309}	16.4	X	356.84276	264.09177	129.18751	6.53734	0.0830536	0.21150226	2.7899261	21	11 29.7	19.9
317535 2002 TR_{312}	17.0	X	132.38444	28.35838	91.40918	8.73523	0.1398631	0.24117796	2.5560988	21	6 8.7	20.7
317536 2002 TJ_{324}	17.9	X	102.25159	293.52746	181.13672	5.60260	0.2876914	0.23622338	2.5917163	21	5 18.9	21.7
317537 2002 TK_{326}	16.7	X	41.51777	308.35033	39.23748	1.88251	0.0875129	0.21408126	2.7674744	21	12 3.5	20.2
317538 2002 TS_{350}	15.6	X	291.13434	322.64170	191.51775	18.53270	0.1193887	0.17243726	3.1967988	21	—	—
317539 2002 TG_{351}	17.6	X	131.26558	23.45212	265.67423	5.62350	0.1187400	0.27443445	2.3451842	21	—	—
317540 2002 TR_{356}	17.3	X	139.54546	301.63019	333.32917	2.92529	0.2122549	0.27380028	2.3488041	21	—	—
317541 2002 UC	16.1	X	111.59677	264.86317	188.16554	27.82000	0.3541056	0.23123127	2.6288855	21	5 9.2	20.7
317542 2002 UH_{4}	14.2	X	258.37799	205.82510	263.56404	34.70859	0.1264078	0.20386282	2.8591967	21	9 18.2	19.1
317543 2002 UB_{5}	16.9	X	163.47882	209.15532	127.00473	7.86625	0.2079139	0.28163112	2.3050603	21	1 9.4	20.2
317544 2002 UC_{8}	16.7	X	46.41718	206.52638	125.78433	9.37957	0.2326321	0.26443516	2.4039380	21	12 21.5	20.1
317545 2002 UH_{12}	16.7	X	297.42072	262.43746	66.71003	23.78072	0.1126780	0.35070241	1.9914843	21	5 20.3	18.5
317546 2002 UE_{15}	17.0	X	212.43921	46.98089	319.49205	13.99211	0.2794918	0.23994361	2.5648576	21	3 26.5	21.9
317547 2002 UW_{18}	15.6	X	169.69643	181.72122	222.09255	6.14626	0.1177060	0.18479585	3.0526328	21	4 12.5	20.4
317548 2002 UQ_{30}	17.6	X	284.52182	171.22293	230.18968	0.95398	0.0403016	0.25344151	2.4729626	21	8 28.7	20.6
317549 2002 UM_{34}	17.0	X	179.16430	252.70915	131.34134	4.77535	0.2513190	0.23558395	2.5964038	21	4 1.0	21.5
317550 2002 UE_{39}	16.1	X	150.83046	248.44903	151.62225	0.69417	0.1842661	0.18039191	3.1021159	21	3 27.1	20.9
317551 2002 UP_{40}	16.1	X	138.93401	341.19847	78.65552	14.45909	0.2345470	0.23310650	2.6147678	21	4 15.7	20.5
317552 2002 UD_{41}	15.8	X	174.44173	153.86551	217.36101	16.47059	0.1860197	0.18085461	3.0968226	21	3 9.2	21.2
317553 2002 UM_{45}	15.4	X	204.89968	208.63120	117.10714	6.38417	0.2927207	0.18165075	3.0877674	21	2 15.2	21.0
317554 2002 UD_{60}	16.6	X	167.23404	333.51311	84.56136	10.02248	0.1485687	0.23835059	2.5762731	21	4 29.9	20.7
317555 2002 UH_{72}	15.8	X	253.56132	267.45075	74.54086	9.68394	0.1409640	0.18918849	3.0051967	21	4 22.0	20.5
317556 2002 UA_{78}	16.5	X	302.38558	185.19526	223.93272	1.19491	0.0620501	0.20285625	2.8686471	21	9 26.3	20.1
317557 2002 VD_{3}	16.4	X	189.12915	140.81724	241.52589	12.70126	0.1869572	0.23676693	2.5877483	21	3 30.0	20.9
317558 2002 VF_{7}	17.2	X	190.16053	17.37198	7.60195	3.78607	0.2298267	0.23744776	2.5827993	21	4 7.6	21.5
317559 2002 VC_{19}	16.8	X	146.88017	199.30259	224.66566	10.04880	0.1586021	0.23479787	2.6021957	21	4 13.0	20.9
317560 2002 VN_{19}	17.3	X	232.63112	149.67842	240.61326	3.61935	0.1558618	0.29660915	2.2267922	21	5 20.9	20.5
317561 2002 VY_{44}	16.8	X	131.07096	358.91270	75.39441	7.28210	0.2507784	0.23428640	2.6059815	21	4 23.3	21.0
317562 2002 VE_{47}	17.2	X	129.26081	358.50763	79.55409	5.68334	0.2437420	0.23295635	2.6158912	21	4 25.2	21.4
317563 2002 VD_{62}	16.2	X	213.24479	345.66842	39.05733	15.72980	0.1063805	0.24026576	2.5625645	21	4 29.1	19.9
317564 2002 VG_{72}	16.6	X	15.25653	185.50871	138.20463	2.15325	0.1879627	0.25704826	2.4497754	21	10 17.1	18.8
317565 2002 VR_{73}	17.0	X	34.20994	212.25840	144.72961	3.69000	0.2325950	0.26423599	2.4051458	21	—	—
317566 2002 VS_{107}	17.1	X	148.66258	45.40443	24.53639	4.58124	0.2668481	0.23446708	2.6046425	21	5 1.1	21.5
317567 2002 VV_{109}	16.7	X	205.19586	109.47240	288.46166	3.68501	0.2269467	0.23937196	2.5689394	21	5 4.2	21.2
317568 2002 VL_{114}	17.3	X	85.31661	186.40221	188.26968	1.23193	0.1998857	0.27242951	2.3566764	21	—	—
317569 2002 VY_{115}	17.4	X	147.07172	259.55928	150.79579	4.20719	0.2276310	0.23327712	2.6134926	21	4 5.0	21.7
317570 2002 VO_{118}	16.0	X	180.80569	108.71203	280.31690	15.38142	0.2169558	0.23704590	2.5857175	21	3 28.1	20.7
317571 2002 VB_{120}	15.9	X	234.62644	71.99194	269.41701	12.27113	0.2509743	0.23773618	2.5807100	21	3 14.0	20.7
317572 2002 VG_{125}	16.7	X	129.82227	166.42468	262.80441	11.84010	0.1452383	0.23238526	2.6201752	21	3 26.9	20.8
317573 2002 VS_{126}	15.2	X	135.49516	277.52842	68.07741	13.66136	0.1549728	0.17026810	3.2238923	21	1 7.5	20.1
317574 2002 VE_{140}	17.6	X	181.16582	272.40668	103.59689	3.68269	0.1548415	0.28803231	2.2707810	21	3 14.8	21.0
317575 2002 VZ_{142}	17.2	X	25.40352	174.15033	159.92530	4.92176	0.1980061	0.26006895	2.4307692	21	11 21.2	20.0
317576 2002 VQ_{143}	15.1	X	328.78239	340.90775	76.84086	11.06175	0.0729320	0.15560104	3.4234268	21	11 9.3	19.7
317577 2002 VX_{143}	16.5	X	344.92956	65.11339	52.37577	13.02942	0.1490968	0.21711584	2.7416270	21	—	—
317578 2002 VB_{145}	16.2	X	155.35437	291.75377	114.92108	3.13540	0.1390290	0.18168217	3.0874114	21	4 6.0	21.0
317579 2002 WD_{11}	17.1	X	88.93594	224.39871	254.92070	4.03175	0.2591580	0.22983833	2.6394964	21	5 3.8	20.6
317580 2002 WV_{13}	17.3	X	114.72930	248.95038	211.22954	5.49280	0.3260790	0.23139398	2.6276530	21	5 16.4	21.4
317581 2002 WX_{14}	17.3	X	53.99977	251.81812	173.55933	5.11401	0.2126825	0.27271662	2.3550221	21	—	—
317582 2002 WL_{15}	16.6	X	332.43499	206.21730	181.60968	6.40125	0.1479134	0.25690229	2.4507033	21	10 23.3	18.7
317583 2002 WW_{19}	18.2	X	181.45540	267.27860	154.01907	2.48181	0.1275089	0.29184360	2.2509677	21	5 11.4	21.4
317584 2002 WH_{26}	17.1	X	191.06966	268.74750	159.61920	3.85003	0.1080901	0.24091141	2.5579839	21	6 2.0	21.0
317585 2002 WW_{27}	15.5	X	56.45694	254.15776	230.90757	8.27947	0.0469414	0.17536311	3.1611411	21	2 28.2	19.9
317586 2002 XG_{9}	16.2	X	170.82820	141.26517	261.33843	12.37297	0.1036655	0.23527416	2.5986826	21	4 2.5	20.4
317587 2002 XN_{11}	17.0	X	123.97847	31.70927	36.07884	13.08366	0.2598806	0.23088119	2.6315423	21	4 9.8	21.0
317588 2002 XO_{13}	17.1	X	197.68189	238.06639	150.22191	6.41995	0.1693431	0.23699041	2.5861211	21	4 20.1	21.3
317589 2002 XA_{20}	16.3	X	173.89622	118.41838	300.64815	4.83583	0.2425466	0.23754152	2.5821197	21	5 5.3	20.9
317590 2002 XW_{20}	16.4	X	51.96776	311.56742	34.70891	8.63692	0.1196367	0.26325804	2.4110985	21	12 30.4	19.8
317591 2002 XX_{23}	16.8	X	213.91544	102.49083	288.71338	10.76877	0.1998945	0.24039448	2.5616496	21	5 1.4	21.3
317592 2002 XK_{29}	15.9	X	108.24840	56.59920	95.40464	31.11705	0.3368082	0.23224936	2.6211972	21	7 14.1	20.4
317593 2002 XT_{31}	16.7	X	117.63030	30.37775	54.34019	14.97316	0.2134438	0.23065513	2.6332613	21	4 20.9	20.6
317594 2002 XW_{38}	17.0	X	244.14176	80.40685	274.78768	2.73008	0.2900070	0.24227394	2.5483842	21	4 9.6	21.4
317595 2002 XJ_{39}	16.8	X	88.23177	80.06236	48.57376	4.62806	0.2375683	0.23057191	2.6338949	21	5 12.7	20.2
317596 2002 XK_{39}	15.1	X	166.27376	144.33795	259.83888	14.74366	0.0224326	0.17996233	3.1070505	21	3 29.9	19.9
317597 2002 XO_{42}	17.1	X	186.86387	55.12267	318.50687	3.87221	0.3548766	0.23550236	2.5970036	21	3 24.2	22.1
317598 2002 XL_{52}	16.8	X	118.17857	355.67190	76.51949	13.40814	0.2256019	0.22878544	2.6475884	21	4 10.0	20.9
317599 2002 XG_{69}	15.7	X	51.35166	112.14269	14.30960	28.19749	0.2652992	0.22120147	2.7077634	21	3 21.0	18.3
317600 2002 XE_{74}	16.3	X	237.67679	334.99597	44.65740	5.09926	0.2405490	0.24209952	2.5496081	21	5 8.5	20.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
317601 2002 XZ_{75}	16.5	X	281.69654	55.40284	312.70797	2.98024	0.2713411	0.24669550	2.5178425	21	6 1.6	20.1
317602 2002 XM_{94}	17.1	X	181.22767	56.33594	350.16128	3.01416	0.1841268	0.23761499	2.5815874	21	4 24.9	21.4
317603 2002 XA_{112}	16.6	X	330.84362	172.25374	299.03835	3.51375	0.1600723	0.21174518	2.7877920	21	—	—
317604 2002 XZ_{113}	15.8	X	283.05653	58.48370	295.07858	9.03188	0.1880408	0.24363252	2.5389017	21	5 25.9	19.5
317605 2002 YG_{12}	17.0	X	128.76811	146.82601	269.43155	11.72698	0.2568365	0.22924781	2.6440272	21	3 22.2	21.4
317606 2002 YQ_{15}	16.8	X	34.07858	326.25318	88.15702	7.94027	0.1147222	0.26782220	2.3836272	21	—	—
317607 2002 YA_{25}	16.4	X	94.21784	349.93541	112.31334	5.85678	0.2097889	0.22706553	2.6609410	21	4 14.5	19.9
317608 2003 AS_{7}	16.8	X	170.58676	310.86207	86.95712	5.45455	0.2469101	0.23210659	2.6222720	21	4 11.6	21.3
317609 2003 AW_{18}	16.8	X	47.05227	327.25002	151.03399	6.34629	0.1190473	0.27326523	2.3518690	21	1 20.1	19.0
317610 2003 AO_{21}	16.5	X	114.02116	180.41187	306.00618	7.56930	0.1098091	0.23241475	2.6199536	21	5 21.8	20.3
317611 2003 AY_{40}	15.3	X	191.31749	188.07557	279.54161	9.36724	0.2126596	0.18583437	3.0412493	21	7 18.8	20.5
317612 2003 AV_{47}	16.1	X	85.25968	198.89536	321.00546	9.35929	0.1109314	0.23249356	2.6193615	21	5 29.6	19.6
317613 2003 AW_{50}	16.8	X	92.74268	22.19157	69.10007	4.88340	0.2230421	0.22519648	2.6756439	21	3 30.7	20.2
317614 2003 AZ_{55}	16.2	X	139.72307	305.23891	146.49347	13.54284	0.1555222	0.23194124	2.6235181	21	5 16.6	20.5
317615 2003 AS_{56}	15.9	X	18.68515	251.10688	324.07327	11.41804	0.2039055	0.22738792	2.6584253	21	4 25.2	18.6
317616 2003 AW_{68}	16.1	X	159.00497	109.70124	319.68324	10.85364	0.1659709	0.23229365	2.6208640	21	4 29.1	20.5
317617 2003 AC_{73}	16.8	X	115.55580	77.00302	22.13383	5.00004	0.2447539	0.22922365	2.6442130	21	5 5.8	20.9
317618 2003 BR_{13}	16.6	X	224.97958	147.85343	275.62773	2.06628	0.0927253	0.23969977	2.5665967	21	7 3.1	20.3
317619 2003 BR_{16}	15.9	X	75.17069	162.24632	344.29787	12.27250	0.1366653	0.22591624	2.6699579	21	4 26.8	19.4
317620 2003 BL_{31}	16.0	X	68.87376	75.73969	150.43445	4.66280	0.2000990	0.23451579	2.6042818	21	8 22.5	19.5
317621 2003 BK_{35}	16.9	X	194.48418	336.62493	44.41176	5.10789	0.0507329	0.28199840	2.3030584	21	4 1.0	19.9
317622 2003 BG_{42}	17.1	X	81.47950	319.86616	183.70070	6.28096	0.2299813	0.22736925	2.6585708	21	5 24.2	20.6
317623 2003 BP_{64}	16.0	X	248.99783	293.72721	134.23825	9.14158	0.1296642	0.18928630	3.0041614	21	7 31.6	20.4
317624 2003 BN_{73}	15.8	X	87.44647	113.76185	35.27754	3.71573	0.1749926	0.17593300	3.1543110	21	5 31.7	20.2
317625 2003 BV_{75}	16.5	X	62.08236	156.72715	351.43931	14.52282	0.0940417	0.22510493	2.6763693	21	4 3.7	19.9
317626 2003 BP_{76}	16.1	X	113.46334	334.37936	89.38040	15.19222	0.2361375	0.22369178	2.6876293	21	3 28.7	20.3
317627 2003 BX_{78}	16.5	X	181.56531	145.73226	327.80349	6.96977	0.1190855	0.23885137	2.5726708	21	7 21.7	20.5
317628 2003 BD_{83}	16.5	X	27.85833	76.60543	359.05865	7.23052	0.2135551	0.21248123	2.7813501	21	—	—
317629 2003 CT_{2}	16.2	X	57.30839	232.66771	297.19510	12.38774	0.1213156	0.22686550	2.6625049	21	4 29.0	19.6
317630 2003 CX_{14}	16.4	X	23.01875	89.94109	121.76306	13.60870	0.2046054	0.22532392	2.6746350	21	5 13.8	19.1
317631 2003 CB_{20}	16.7	X	36.71788	266.45400	280.77455	7.07331	0.1435773	0.22138387	2.7062759	21	4 22.6	19.7
317632 2003 CM_{20}	16.0	X	274.88827	110.38888	102.89818	7.27626	0.1317096	0.20989184	2.8041786	21	—	—
317633 2003 CY_{20}	17.0	X	227.57219	107.35926	208.48898	4.06202	0.1513707	0.20946624	2.8079758	21	2 17.4	21.5
317634 2003 CL_{25}	15.9	X	30.04343	76.35246	105.00985	12.34978	0.1697868	0.22135494	2.7065117	21	4 13.1	18.9
317635 2003 DO_{6}	16.2	X	8.33230	34.55460	149.02371	11.37298	0.2441130	0.21889786	2.7267273	21	2 15.6	18.3
317636 2003 DK_{11}	16.0	X	74.56330	37.85625	158.78501	13.85007	0.1163560	0.23289151	2.6163767	21	7 6.6	19.6
317637 2003 EZ_{1}	16.4	X	64.04827	157.31231	16.81365	6.65732	0.1094578	0.22669379	2.6638492	21	5 17.9	19.6
317638 2003 EQ_{11}	16.8	X	8.45723	62.08370	178.67259	10.58259	0.3988011	0.22129662	2.7069871	21	5 17.8	17.7
317639 2003 EB_{23}	16.1	X	22.52931	186.00010	9.35151	11.35615	0.1410171	0.22123070	2.7075249	21	4 8.5	18.8
317640 2003 ER_{23}	17.1	X	302.73904	76.77302	113.61861	2.05645	0.1341948	0.26323042	2.4112672	21	—	—
317641 2003 EH_{30}	16.5	X	68.53598	249.30665	329.69370	10.81333	0.1394887	0.23182879	2.6243664	21	8 4.3	19.8
317642 2003 EX_{40}	15.8	X	82.79727	339.78752	115.00970	13.55426	0.1534195	0.21985656	2.7187948	21	3 13.7	19.3
317643 2003 FH_{1}	18.2	X	132.12060	29.18617	40.20089	14.64049	0.4396025	0.76502896	1.1839975	21	—	—
317644 2003 FU_{1}	16.7	X	13.66668	30.38364	181.67021	11.72834	0.0161956	0.22194735	2.7016935	21	4 20.5	20.2
317645 2003 FT_{11}	16.6	X	37.90924	309.96083	192.87089	12.60506	0.1353418	0.21656257	2.7462946	21	2 20.9	19.8
317646 2003 FY_{21}	17.2	X	340.72586	236.08202	349.61819	1.78092	0.1649060	0.27129877	2.3632201	21	2 21.9	19.7
317647 2003 FE_{27}	16.5	X	313.43607	343.46618	265.76507	1.23941	0.1385111	0.21639381	2.7477222	21	2 27.4	20.0
317648 2003 FM_{30}	16.0	X	335.85997	80.34110	144.12088	5.64408	0.1048442	0.21642081	2.7474937	21	3 5.3	19.4
317649 2003 FM_{34}	17.5	X	113.37624	125.76071	11.77048	4.85054	0.1698776	0.28140884	2.3062740	21	6 12.5	20.7
317650 2003 FD_{46}	16.1	X	348.47226	226.93575	18.04748	11.68655	0.1229232	0.22076694	2.7113153	21	4 17.3	19.0
317651 2003 FU_{61}	16.1	X	335.26370	212.52794	34.08767	9.15627	0.2383092	0.21807827	2.7335548	21	3 16.8	19.3
317652 2003 FV_{62}	16.9	X	23.48297	2.27105	167.13470	8.04252	0.1360966	0.27128261	2.3633139	21	2 20.1	19.0
317653 2003 FO_{76}	16.8	X	44.17322	325.96336	189.47056	15.27437	0.1440720	0.21916423	2.7245175	21	3 24.9	19.8
317654 2003 FT_{79}	15.8	X	348.40563	234.39936	20.88692	16.30909	0.2375859	0.21992349	2.7182432	21	4 18.1	18.2
317655 2003 FU_{85}	15.8	X	336.94904	225.87633	359.46124	11.05262	0.1557797	0.21490748	2.7603768	21	3 2.7	19.1
317656 2003 FO_{105}	16.5	X	243.83378	19.69670	167.76479	8.13777	0.1379862	0.19862121	2.9092808	21	12 21.2	20.7
317657 2003 FT_{106}	16.2	X	43.15446	328.19905	199.04817	14.28412	0.1300796	0.21996244	2.7179223	21	4 7.9	19.0
317658 2003 FH_{112}	17.8	X	2.05069	350.70456	255.64973	2.57409	0.2120592	0.27632604	2.3344693	21	5 2.1	19.3
317659 2003 FY_{117}	16.3	X	28.04537	119.97384	31.69025	11.37351	0.1365421	0.21714943	2.7413443	21	2 24.4	19.4
317660 2003 FN_{118}	16.3	X	338.15520	146.66449	37.64740	8.52923	0.1578812	0.21312354	2.7757591	21	1 8.9	19.9
317661 2003 FR_{120}	16.7	X	108.67108	18.95352	197.91348	5.56691	0.1591310	0.23608104	2.5927579	21	9 18.6	20.7
317662 2003 FY_{122}	15.8	X	84.10108	20.37722	201.54310	10.76144	0.0164866	0.17693093	3.1424392	21	8 2.9	20.5
317663 2003 FS_{124}	16.5	X	5.53260	53.91990	153.78402	3.92445	0.1307197	0.21751631	2.7382609	21	3 28.6	19.3
317664 2003 FJ_{131}	16.0	X	133.71968	346.54610	146.06022	12.01654	0.1216429	0.22816916	2.6523536	21	6 25.6	20.1
317665 2003 GF_{16}	16.2	X	81.51223	183.02407	84.05424	6.69177	0.0972008	0.23891959	2.5721811	21	10 20.3	19.8
317666 2003 GV_{25}	16.5	X	282.97225	214.59755	21.42203	9.26744	0.1069672	0.21202180	2.7853667	21	1 13.7	20.7
317667 2003 GW_{26}	17.0	X	7.44326	341.48055	197.97281	2.86489	0.0287475	0.21466455	2.7624589	21	2 26.0	20.5
317668 2003 GA_{38}	13.3	X	57.91562	149.12313	176.23459	13.56301	0.0160239	0.08050785	5.3118268	21	10 30.1	20.3
317669 2003 HE_{4}	17.5	X	275.81773	257.66982	353.31723	1.77561	0.1669210	0.26215064	2.4178838	21	1 8.1	21.0
317670 2003 HZ_{13}	17.6	X	76.55330	115.52600	116.51440	3.71285	0.1670533	0.28377444	2.2934390	21	9 9.8	20.5
317671 2003 HL_{19}	16.4	X	118.34141	236.67284	195.86936	6.09638	0.0138678	0.21306283	2.7762864	21	3 6.3	20.3
317672 2003 HU_{39}	15.5	X	282.47813	221.45851	52.76761	22.17252	0.1768331	0.20996540	2.8035236	21	3 3.3	20.2
317673 2003 HR_{42}	15.7	X	19.76620	100.81385	38.08752	30.47267	0.3749263	0.21307711	2.7761623	21	—	—
317674 2003 HO_{50}	15.8	X	27.02523	38.00886	164.87814	12.62028	0.1287906	0.21866505	2.7286624	21	5 3.4	19.0
317675 2003 HX_{58}	17.2	X	281.20899	155.09282	63.12264	2.12383	0.1370032	0.25996713	2.4314038	21	—	—
317676 2003 JB_{3}	16.5	X	226.09833	334.76717	37.37943	6.78631	0.0523892	0.21951764	2.7215925	21	5 1.3	20.4
317677 2003 JL_{5}	17.1	X	4.92483	26.72857	205.60443	5.52654	0.2292320	0.27252875	2.3561042	21	4 14.3	18.6
317678 2003 JH_{18}	17.3	X	68.45683	89.49317	187.93571	6.63441	0.1242431	0.28676738	2.2774537	21	10 26.1	20.1
317679 2003 KT	15.7	X	23.58369	231.80760	345.37501	10.07956	0.3027028	0.22033960	2.7148198	21	5 23.7	17.8
317680 2003 KU_{3}	16.7	X	77.80889	231.24587	40.43760	7.90216	0.1607670	0.28711076	2.2756375	21	11 2.2	19.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
317681 2003 KQ_{7}	14.9	X	268.09516	343.14938	254.59734	15.81030	0.1124804	0.19766854	2.9186209	21	—	—
317682 2003 KX_{32}	16.6	X	58.29234	170.87479	137.12855	4.36014	0.2786004	0.23421946	2.6064780	21	12 4.6	20.5
317683 2003 MS	17.3	X	181.11761	359.63840	306.76226	4.59711	0.3048602	0.30183394	2.2010200	21	—	—
317684 2003 MY_{5}	15.6	X	297.51260	357.80126	261.35752	9.46213	0.2174121	0.20563434	2.8427519	21	2 8.4	20.0
317685 2003 NO_{4}	18.1	X	359.82460	171.19575	135.37193	22.70258	0.3129133	0.43892981	1.7147705	21	11 4.5	19.7
317686 2003 NZ_{10}	17.9	X	171.93228	141.61947	164.39596	5.45388	0.1400501	0.30054071	2.2073296	21	—	—
317687 2003 OD_{5}	15.0	X	54.10411	210.91603	133.56923	9.82290	0.1698178	0.17585563	3.1552361	21	12 20.1	19.6
317688 2003 OD_{8}	15.4	X	183.56578	190.70775	104.25173	14.13518	0.1596145	0.19181992	2.9776495	21	—	—
317689 2003 OF_{12}	14.7	X	48.85550	100.43507	220.06849	17.67113	0.1528461	0.17085086	3.2165571	21	11 11.7	19.2
317690 2003 OA_{17}	15.6	X	198.62892	150.36669	125.49517	10.81103	0.0543023	0.19082533	2.9879869	21	—	—
317691 2003 OG_{23}	16.9	X	164.31138	24.46082	318.91283	3.83067	0.1956193	0.30074616	2.2063242	21	1 15.5	20.0
317692 2003 OF_{24}	16.6	X	327.20587	255.83880	132.73680	21.61398	0.2609994	0.27794515	2.3253945	21	10 26.7	18.6
317693 2003 OP_{24}	18.2	X	211.74523	338.63464	259.60123	3.50171	0.1241775	0.29859889	2.2168889	21	—	—
317694 2003 OK_{26}	15.6	X	76.71832	88.59628	265.89560	4.20938	0.2182396	0.18004417	3.1061089	21	—	—
317695 2003 OA_{33}	17.3	X	98.10420	221.48845	136.05014	3.74704	0.1844792	0.29403133	2.2397883	21	—	—
317696 2003 PF_{5}	17.3	X	138.07950	195.88470	130.47714	5.31760	0.2197019	0.29748085	2.2224400	21	—	—
317697 2003 PO_{5}	17.1	X	168.03909	137.15199	188.33807	5.58574	0.1707862	0.30119420	2.2041356	21	—	—
317698 2003 PF_{6}	17.0	X	223.66652	112.36748	177.07096	5.40862	0.1960085	0.30542807	2.1837190	21	—	—
317699 2003 PP_{9}	17.7	X	194.73331	132.20939	166.13834	15.73010	0.1877205	0.41428572	1.7821164	21	—	—
317700 2003 QY	16.3	X	166.81966	134.77559	152.87425	6.91229	0.1740130	0.18702620	3.0283152	21	—	—
317701 2003 QZ_{2}	15.8	X	138.07029	157.12429	169.28958	9.87601	0.0893012	0.18558523	3.0439706	21	—	—
317702 2003 QN_{3}	17.7	X	339.01684	79.29388	288.02709	4.01539	0.2516776	0.27480181	2.3430937	21	10 7.7	18.9
317703 2003 QS_{6}	15.3	X	125.46902	303.61585	333.16820	13.27753	0.2539858	0.17824998	3.1269172	21	12 12.3	20.9
317704 2003 QJ_{8}	17.1	X	331.57586	130.27357	251.88400	5.60325	0.1228111	0.27649167	2.3335369	21	10 12.9	19.4
317705 2003 QW_{8}	15.5	X	98.83389	190.61124	170.52053	13.14111	0.1387690	0.18353122	3.0666396	21	—	—
317706 2003 QP_{15}	17.1	X	33.56696	146.44471	210.15303	5.55186	0.1369424	0.28325837	2.2962238	21	12 27.0	19.9
317707 2003 QO_{18}	17.0	X	318.44387	245.11571	144.41098	5.75525	0.2515671	0.27428062	2.3460610	21	9 18.5	18.3
317708 2003 QL_{19}	16.0	X	153.99017	304.22352	2.30474	9.79751	0.2163396	0.18646733	3.0343631	21	—	—
317709 2003 QM_{20}	15.6	X	48.62809	349.34283	10.56635	9.44603	0.0805136	0.17451545	3.1713691	21	12 18.3	20.2
317710 2003 QM_{25}	15.5	X	100.71314	13.13110	308.19049	8.97760	0.0812102	0.17916094	3.1163089	21	—	—
317711 2003 QK_{26}	15.6	X	124.68660	11.20039	300.77857	7.04077	0.2078872	0.18220626	3.0814883	21	—	—
317712 2003 QO_{26}	17.2	X	139.73011	11.80553	322.33641	6.59810	0.2074814	0.29628629	2.2284096	21	—	—
317713 2003 QG_{28}	17.2	X	92.48844	357.59741	344.96277	4.07981	0.1818386	0.29099927	2.2553197	21	—	—
317714 2003 QN_{28}	17.4	X	75.92273	20.08729	303.23071	5.17877	0.2070843	0.28650513	2.2788432	21	—	—
317715 Guydetienne	16.1	X	218.31778	156.47158	191.71370	9.31693	0.1048149	0.20140086	2.8824503	21	3 22.4	20.6
317716 2003 QR_{32}	17.3	X	176.43164	311.12688	351.66430	3.36672	0.1863924	0.29935225	2.2131679	21	—	—
317717 2003 QB_{33}	15.3	X	125.95268	324.40069	346.14414	12.87691	0.1853704	0.18047198	3.1011982	21	—	—
317718 2003 QJ_{40}	16.9	X	175.47025	323.15978	345.47489	6.18021	0.2155308	0.29942204	2.2128240	21	—	—
317719 2003 QX_{40}	17.7	X	124.24979	349.72794	327.34038	5.28558	0.1766864	0.29357378	2.2421149	21	—	—
317720 2003 QP_{41}	14.9	X	80.27669	158.14214	166.81463	27.26536	0.1557046	0.17479046	3.1680418	21	12 23.9	20.2
317721 2003 QR_{43}	15.8	X	96.18846	337.64949	34.75949	1.61008	0.2870683	0.18222512	3.0812756	21	1 10.2	19.8
317722 2003 QE_{48}	15.1	X	80.38979	73.64522	253.36659	6.69328	0.1511930	0.17610549	3.1522509	21	12 24.5	19.8
317723 2003 QT_{48}	15.8	X	162.99779	269.57446	349.05459	9.00882	0.2586503	0.18247023	3.0785157	21	12 18.7	21.4
317724 2003 QC_{49}	17.9	X	359.26328	246.85272	100.64753	1.87039	0.2168079	0.27732066	2.3288842	21	10 29.9	19.6
317725 2003 QS_{54}	15.7	X	141.08092	168.56101	151.79292	11.91586	0.2003556	0.18479313	3.0526627	21	—	—
317726 2003 QU_{67}	16.3	X	110.17433	56.80748	245.34546	4.23634	0.1490113	0.23546983	2.5972427	21	—	—
317727 2003 QP_{86}	17.9	X	342.44192	311.56030	162.29466	1.73406	0.0625265	0.29334476	2.2432817	21	—	—
317728 2003 QY_{93}	16.9	X	264.51250	357.18618	17.63603	4.65161	0.1805223	0.26649423	2.3915392	21	6 1.8	20.3
317729 2003 QY_{119}	16.0	X	252.91720	28.72287	319.84585	12.37885	0.1155114	0.20561424	2.8429372	21	4 21.1	20.5
317730 2003 RP	17.5	X	9.92764	24.59440	352.23813	2.08780	0.1784611	0.28152472	2.3056411	21	12 27.6	19.8
317731 2003 RO_{1}	16.9	X	162.01664	229.04375	70.84059	8.65417	0.1575799	0.29671715	2.2262518	21	—	—
317732 2003 RG_{16}	16.1	X	353.17935	31.03381	339.49204	4.76022	0.1770297	0.22225078	2.6992339	21	10 30.1	18.9
317733 2003 RF_{23}	15.8	X	182.44327	132.92031	164.21203	10.91730	0.1506830	0.18815809	3.0161582	21	—	—
317734 2003 RV_{24}	15.5	X	139.43377	88.75116	247.75593	8.83172	0.0649876	0.18586207	3.0409471	21	—	—
317735 2003 SF_{3}	17.8	X	31.45762	140.38997	210.28470	2.06393	0.1733474	0.28060410	2.3106813	21	12 21.6	20.6
317736 2003 SD_{4}	15.7	X	98.25755	135.21219	184.34381	14.13454	0.0821400	0.17508962	3.1644321	21	12 26.6	20.7
317737 2003 SN_{8}	15.9	X	131.59225	88.44929	186.56248	9.47807	0.0533908	0.17376327	3.1805146	21	12 8.7	20.8
317738 2003 SM_{12}	17.4	X	21.53518	315.00114	34.85472	4.27921	0.1417162	0.27977798	2.3152276	21	11 30.3	20.0
317739 2003 SR_{12}	17.7	X	18.91780	342.67709	344.59876	3.09599	0.2456799	0.27728644	2.3290758	21	11 10.2	20.0
317740 2003 SY_{13}	15.8	X	344.26427	75.29805	353.03767	15.08988	0.0983720	0.22928114	2.6437709	21	—	—
317741 2003 SS_{15}	15.1	X	100.91994	3.83347	290.56230	16.62702	0.1945310	0.17667751	3.1454434	21	12 10.7	20.4
317742 2003 SN_{25}	15.0	X	135.82571	267.82149	357.46124	15.57244	0.0266777	0.17198854	3.2023567	21	11 25.5	19.9
317743 2003 SM_{35}	15.3	X	168.43491	218.35498	14.44566	10.39847	0.0707824	0.17362101	3.1822517	21	11 24.6	20.2
317744 2003 SY_{35}	15.9	X	181.19091	264.13659	85.15058	6.25717	0.2234664	0.19249892	2.9706434	21	2 24.5	21.1
317745 2003 SF_{38}	16.7	X	300.78128	115.87565	252.65428	7.77740	0.2335624	0.26907038	2.3762499	21	7 4.6	19.4
317746 2003 SS_{45}	15.2	X	88.82842	332.99230	13.73751	23.72043	0.0660246	0.17800342	3.1298040	21	—	—
317747 2003 SW_{48}	17.1	X	261.16530	17.72124	250.31196	6.54770	0.1661544	0.30552263	2.1832684	21	1 7.1	20.3
317748 2003 SY_{48}	17.1	X	45.22875	95.80751	261.67644	5.98130	0.1218439	0.28342483	2.2953247	21	—	—
317749 2003 ST_{57}	15.7	X	46.03584	1.18928	15.33276	18.16335	0.1381144	0.22911104	2.6450794	21	—	—
317750 2003 SD_{58}	15.6	X	0.84291	137.80991	273.20104	13.64810	0.0966503	0.23107235	2.6300907	21	—	—
317751 2003 SK_{58}	15.5	X	191.70707	60.33999	236.06012	12.15171	0.1369143	0.18955104	3.0013635	21	—	—
317752 2003 ST_{61}	15.4	X	47.63423	186.65523	158.50149	20.13070	0.1356205	0.17228008	3.1987429	21	12 10.0	20.2
317753 2003 SS_{68}	17.5	X	111.64915	147.84718	198.04740	6.03524	0.1355273	0.29325579	2.2437355	21	—	—
317754 2003 SF_{70}	17.3	X	129.60697	311.21595	1.96072	2.84812	0.2027316	0.29177511	2.2513199	21	—	—
317755 2003 SH_{72}	16.6	X	89.87648	68.70340	261.09914	3.77450	0.0720242	0.23205723	2.6226438	21	—	—
317756 2003 SL_{72}	17.2	X	335.11116	123.38800	254.72491	2.31547	0.1809260	0.27542397	2.3395638	21	10 15.9	18.8
317757 2003 SV_{75}	17.5	X	313.06239	289.80953	48.94366	1.25092	0.2238486	0.26779357	2.3837971	21	6 13.2	19.9
317758 2003 SR_{77}	15.5	X	36.90043	179.71018	221.28531	11.16970	0.0697123	0.17769854	3.1333829	21	—	—
317759 2003 SY_{77}	17.1	X	123.44793	347.57727	287.83967	4.82023	0.1584154	0.28586545	2.2822415	21	12 21.5	20.7
317760 2003 SP_{80}	17.0	X	171.09955	308.97072	13.74350	8.18163	0.1833738	0.29782410	2.2207320	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
317761 2003 SY_{81}	15.7	X	127.53025	327.77343	4.84019	27.56601	0.1221822	0.18181334	3.0859264	21	—	—
317762 2003 SS_{88}	17.0	X	347.20552	238.65514	61.25461	3.96764	0.1256472	0.26829912	2.3808017	21	7 6.1	19.0
317763 2003 SR_{89}	16.8	X	320.40498	140.31518	240.23372	7.21320	0.1516461	0.27301992	2.3532776	21	9 12.8	19.1
317764 2003 SW_{91}	15.3	X	265.78991	172.32750	335.42107	10.70655	0.0374741	0.17632588	3.1496238	21	12 8.4	19.9
317765 2003 SB_{93}	17.0	X	47.53432	118.22653	209.23650	6.97972	0.1315669	0.27859709	2.3217654	21	12 5.2	19.9
317766 2003 SD_{96}	17.6	X	216.62059	303.56916	347.38035	2.03048	0.2450625	0.30369062	2.1920399	21	—	—
317767 2003 SG_{104}	15.3	X	85.26037	319.62973	15.86670	6.83140	0.0394603	0.17462643	3.1700253	21	12 27.4	19.9
317768 2003 SP_{104}	17.1	X	329.05781	230.85083	137.32820	8.57343	0.1256392	0.27361427	2.3498684	21	9 20.7	19.2
317769 2003 SA_{105}	15.0	X	113.42910	55.68245	218.38235	17.45716	0.1480765	0.17300025	3.1898596	21	11 24.9	20.1
317770 2003 SO_{117}	17.2	X	45.76365	321.51242	2.09672	6.98150	0.2285204	0.27946136	2.3169760	21	12 10.4	20.4
317771 2003 SS_{117}	15.3	X	40.35285	88.42686	262.25897	7.60025	0.1102040	0.17008958	3.2261477	21	11 30.5	19.7
317772 2003 SR_{124}	16.6	X	281.01194	160.46500	179.93622	1.86494	0.0876027	0.20544192	2.8445266	21	5 24.4	20.6
317773 2003 SN_{126}	17.0	X	177.42731	30.83540	264.45201	3.87224	0.2202077	0.29690447	2.2253153	21	—	—
317774 2003 SW_{127}	15.5	X	99.72852	332.34722	341.01504	10.13096	0.0640624	0.17404236	3.1771136	21	12 19.8	20.4
317775 2003 SE_{128}	16.2	X	99.93043	349.71783	301.63258	10.58979	0.2111692	0.23020288	2.6367091	21	12 14.5	20.6
317776 2003 ST_{130}	15.1	X	175.99053	261.76978	12.46039	26.15320	0.1720126	0.18081766	3.0972445	21	—	—
317777 2003 SM_{131}	17.0	X	105.50296	340.03845	12.81460	2.90493	0.1774516	0.29105910	2.2550106	21	—	—
317778 2003 SP_{133}	15.8	X	68.46843	76.13340	275.64124	11.07710	0.1874527	0.23232284	2.6206445	21	—	—
317779 2003 SE_{138}	16.0	X	274.91285	293.68910	83.88587	5.40386	0.2205905	0.20949967	2.8076771	21	6 14.8	20.2
317780 2003 SU_{147}	15.5	X	293.69190	85.16987	239.30236	8.28426	0.1363806	0.20565895	2.8425251	21	5 11.9	19.3
317781 2003 ST_{153}	17.4	X	43.20504	269.21567	70.77156	5.91978	0.1692753	0.28198212	2.3031471	21	12 21.9	20.4
317782 2003 SN_{154}	15.2	X	130.30993	143.98734	206.22938	15.44111	0.0878632	0.18274178	3.0754651	21	—	—
317783 2003 SG_{157}	17.2	X	23.00841	339.84714	13.84798	7.09960	0.1425957	0.27900314	2.3195122	21	12 7.2	19.9
317784 2003 SA_{161}	17.4	X	168.89629	255.92980	29.26945	6.37357	0.1875038	0.29477104	2.2360397	21	—	—
317785 2003 SY_{161}	15.1	X	153.82695	281.64095	15.19962	11.35386	0.0842444	0.17828196	3.1265433	21	—	—
317786 2003 SG_{162}	17.3	X	346.55320	222.79631	125.43298	2.97451	0.2279910	0.27279003	2.3545995	21	9 28.6	18.6
317787 2003 SE_{163}	17.4	X	298.15119	284.78253	37.61243	2.30568	0.2078213	0.26232380	2.4168197	21	4 29.6	20.3
317788 2003 SM_{164}	16.7	X	313.70267	101.49622	217.60154	4.67316	0.2058204	0.26415686	2.4056260	21	5 19.2	19.1
317789 2003 SM_{165}	16.9	X	317.74503	209.78551	184.03017	7.02113	0.2633007	0.27157160	2.3616370	21	9 19.4	18.2
317790 2003 SU_{171}	17.1	X	128.63092	85.89856	206.82758	5.02243	0.1938520	0.23461994	2.6035111	21	—	—
317791 2003 SF_{172}	17.2	X	309.16322	322.46773	64.98864	2.24943	0.1969056	0.27250033	2.3562680	21	8 30.1	19.1
317792 2003 ST_{173}	15.5	X	171.84222	292.51049	353.31635	11.58073	0.1449234	0.18205731	3.0831688	21	—	—
317793 2003 SD_{176}	15.7	X	22.00295	216.57131	172.35652	10.17962	0.0791277	0.17401764	3.1774144	21	12 19.9	20.1
317794 2003 SF_{179}	17.2	X	67.68261	218.38765	114.56468	5.14125	0.1602688	0.28429232	2.2906529	21	—	—
317795 2003 SR_{182}	17.4	X	16.08887	23.83904	319.25402	5.97574	0.1336310	0.27683002	2.3316351	21	11 7.8	19.9
317796 2003 SX_{182}	16.7	X	99.37888	181.94926	165.65384	8.24927	0.1919718	0.23573602	2.5952872	21	—	—
317797 2003 SN_{183}	17.3	X	49.85433	245.26797	133.01181	3.96141	0.1266468	0.28737311	2.2742522	21	—	—
317798 2003 SS_{188}	17.0	X	318.02268	326.50731	50.74303	5.52288	0.1935445	0.27198092	2.3592670	21	9 5.1	18.9
317799 2003 SL_{195}	16.1	X	64.51744	125.15341	225.15151	13.37564	0.1188933	0.22856795	2.6492676	21	—	—
317800 2003 SS_{198}	17.2	X	197.10031	15.83387	284.52045	4.53686	0.2285383	0.29952284	2.2123275	21	—	—
317801 2003 ST_{206}	15.6	X	122.41336	126.46310	180.30691	12.06477	0.1349387	0.17897504	3.1184664	21	—	—
317802 2003 SV_{206}	17.5	X	353.99611	359.16466	348.35733	4.87895	0.2483208	0.27522376	2.3406983	21	10 17.7	18.9
317803 2003 SR_{207}	17.3	X	353.78948	319.09376	34.73514	3.48322	0.2315505	0.27406438	2.3472949	21	10 27.6	18.7
317804 2003 ST_{212}	14.8	X	93.25198	285.33791	2.80206	24.98741	0.2555873	0.17484995	3.1673232	21	11 23.2	20.4
317805 2003 SH_{216}	15.1	X	128.13618	252.43481	14.56725	25.73314	0.2721836	0.17503741	3.1650613	21	11 26.4	21.1
317806 2003 ST_{219}	16.6	X	346.10087	338.56690	37.56397	6.85122	0.0960399	0.27413780	2.3468758	21	11 1.4	19.0
317807 2003 SV_{221}	16.3	X	303.87179	51.67494	319.74890	1.61835	0.0975163	0.21413607	2.7670021	21	8 5.4	19.5
317808 2003 SK_{225}	15.6	X	162.60570	286.33924	12.68093	8.75671	0.1654648	0.18159950	3.0883484	21	—	—
317809 Marot	17.7	X	317.68880	37.56237	343.35617	2.11529	0.1339037	0.27294451	2.3537110	21	9 13.5	19.5
317810 2003 SR_{228}	15.7	X	26.77867	9.62163	351.17084	6.28026	0.0887098	0.17046197	3.2214474	21	11 20.5	20.1
317811 2003 SR_{231}	17.6	X	283.49659	281.69091	94.22562	3.54755	0.1967621	0.26702344	2.3883783	21	6 26.1	20.3
317812 2003 SX_{233}	17.5	X	8.30526	225.57655	144.07088	3.04651	0.1073825	0.27874099	2.3209662	21	12 3.1	19.8
317813 2003 SF_{236}	17.5	X	123.09625	349.95421	357.84112	4.93373	0.1597829	0.29479767	2.2359050	21	—	—
317814 2003 SX_{248}	17.0	X	107.33228	144.33876	175.37602	5.24060	0.1636724	0.28785824	2.2716963	21	—	—
317815 2003 SD_{253}	17.7	X	331.87275	35.49231	325.52029	3.30794	0.1613963	0.27305876	2.3530544	21	9 9.1	19.5
317816 2003 SH_{263}	17.7	X	73.41302	210.21246	115.45905	3.76834	0.1831381	0.28428393	2.2906980	21	—	—
317817 2003 SO_{264}	16.5	X	18.40719	328.88940	112.97247	5.16801	0.1739729	0.23369643	2.6103655	21	—	—
317818 2003 SU_{264}	17.0	X	0.01168	180.10998	109.27761	3.03750	0.0950185	0.26690736	2.3890708	21	7 15.3	19.0
317819 2003 SB_{265}	15.5	X	136.49266	107.93062	171.75748	9.30086	0.0692747	0.17492358	3.1664342	21	12 19.5	20.5
317820 2003 ST_{267}	15.7	X	70.42316	154.39263	189.95117	9.33508	0.0761417	0.17425669	3.1745079	21	12 24.9	20.4
317821 2003 SP_{276}	17.5	X	80.72434	140.16891	170.14450	4.46173	0.1566115	0.28238699	2.3009451	21	12 23.7	20.8
317822 2003 SV_{277}	17.4	X	342.40826	32.43867	345.92160	10.03238	0.1403552	0.27529373	2.3403017	21	10 27.0	19.6
317823 2003 SP_{282}	16.4	X	82.11700	68.72943	284.68359	2.93023	0.0834711	0.23298121	2.6157051	21	—	—
317824 2003 SF_{284}	17.1	X	260.21933	213.89070	217.58366	5.47046	0.2341740	0.26876865	2.3780281	21	8 5.3	20.4
317825 2003 SX_{288}	15.7	X	113.47770	135.20487	178.49035	13.94728	0.1581686	0.17705577	3.1409619	21	—	—
317826 2003 SZ_{288}	16.7	X	289.24134	316.90567	79.82685	3.51975	0.2329047	0.26905179	2.3763594	21	7 30.1	19.3
317827 2003 SX_{307}	15.4	X	117.94475	339.27483	342.75306	11.10588	0.0697825	0.17889825	3.1193587	21	—	—
317828 2003 SE_{308}	15.7	X	145.04527	82.57910	254.42551	9.03328	0.1045210	0.18707281	3.0278122	21	—	—
317829 2003 SK_{320}	16.4	X	311.70630	92.33390	223.83335	3.68890	0.1375570	0.20841576	2.8174033	21	5 26.9	19.7
317830 2003 SZ_{320}	17.0	X	315.17000	309.79619	136.40748	6.45015	0.0669518	0.28045007	2.3115273	21	12 21.5	19.6
317831 2003 SC_{321}	16.3	X	70.24904	187.19018	90.25797	6.17916	0.1305211	0.21966014	2.7204154	21	10 21.9	20.2
317832 2003 SO_{325}	17.6	X	243.21049	283.96394	131.38724	2.08191	0.0628674	0.26598606	2.3945843	21	7 18.3	20.6
317833 2003 SJ_{326}	16.8	X	212.62939	15.04676	282.44416	0.46899	0.1217523	0.19082471	2.9879935	21	1 18.1	21.4
317834 2003 SP_{326}	18.0	X	271.02171	37.86185	21.96859	1.61503	0.1723947	0.26990410	2.3713540	21	8 15.7	20.7
317835 2003 SH_{333}	17.4	X	6.78626	27.85233	331.40782	5.05444	0.1459329	0.27615136	2.3354537	21	11 18.1	19.8
317836 2003 SK_{345}	15.2	X	83.90100	88.82370	212.42361	6.26491	0.1338246	0.17385344	3.1794147	21	11 26.7	19.9
317837 2003 SS_{363}	16.3	X	267.53190	311.64108	202.71340	8.44966	0.0679014	0.17726305	3.1385128	21	12 15.9	20.7
317838 2003 SL_{366}	16.4	X	96.52597	108.80213	185.80685	10.92332	0.0674618	0.17306527	3.1890606	21	11 26.0	21.2
317839 2003 SZ_{366}	16.9	X	310.80894	214.78129	271.93186	1.63434	0.0883772	0.23337881	2.6127335	21	—	—
317840 2003 SB_{404}	14.6	X	219.69582	308.92586	251.76266	24.75003	0.1994571	0.17550812	3.1593997	21	11 30.2	19.7

ELEMENTS AND OPPOSITION DATES IN 2021

ECLIPTIC AND EQUINOX 2000.0, EPOCH 2021 JULY 5.0 TT

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
317841 2003 SH_{420}	16.0	X	246.18793	149.40782	117.04371	15.19045	0.0732234	0.24037422	2.5617935	21	1 6.9	19.6
317842 2003 SM_{423}	17.0	X	31.59771	28.31025	30.77716	2.09850	0.0986197	0.23159060	2.6261656	21	—	—
317843 2003 SH_{424}	16.5	X	239.25225	76.36872	355.04134	4.46762	0.0653692	0.21307435	2.7761862	21	8 3.9	20.5
317844 2003 SU_{426}	16.6	X	177.00937	76.45694	347.14847	1.42683	0.0515455	0.20317070	2.8656864	21	5 11.3	20.8
317845 2003 SG_{428}	15.8	X	159.76340	90.53258	182.71583	18.15288	0.0872421	0.17923122	3.1154942	21	—	—
317846 2003 SK_{428}	16.6	X	119.91914	346.14457	6.26152	2.87207	0.0641552	0.23956916	2.5675295	21	—	—
317847 2003 SW_{432}	15.3	X	137.44039	298.05923	338.88097	8.45427	0.0651531	0.17516566	3.1635162	21	12 16.8	20.2
317848 2003 TG_{7}	16.4	X	307.83328	332.08216	44.51202	13.22823	0.2831715	0.27049919	2.3678748	21	7 26.6	18.8
317849 2003 TT_{10}	17.2	X	320.67124	173.52555	249.43975	6.14309	0.0958568	0.27819692	2.3239913	21	11 26.2	19.3
317850 2003 TE_{14}	16.9	X	64.23185	91.69447	237.16649	6.40818	0.1224070	0.28141401	2.3062457	21	12 25.7	20.0
317851 2003 TC_{15}	17.3	X	321.29227	197.64443	138.51703	3.26025	0.2069954	0.26892765	2.3770907	21	6 28.7	19.3
317852 2003 TQ_{15}	16.8	X	51.37251	266.80636	73.56652	8.97344	0.1579457	0.28099101	2.3085597	21	12 30.5	19.9
317853 2003 TR_{17}	17.6	X	310.98327	133.31981	273.62307	0.47002	0.1781098	0.27323399	2.3520483	21	10 6.5	19.3
317854 2003 TU_{17}	15.3	X	117.52726	127.32471	239.77153	8.90007	0.0538614	0.18280481	3.0747583	21	—	—
317855 2003 TL_{27}	15.5	X	199.30626	240.96509	322.90711	6.37721	0.0933725	0.17125693	3.2114706	21	11 21.4	20.6
317856 2003 TC_{34}	15.2	X	158.88090	337.50334	266.91920	9.30446	0.0775614	0.17087921	3.2162013	21	11 30.1	20.2
317857 2003 TL_{36}	17.4	X	223.51400	260.14218	228.35463	6.95337	0.0802096	0.27176468	2.3605183	21	9 28.6	20.6
317858 2003 TQ_{38}	17.3	X	331.86653	119.54915	298.81580	3.36360	0.1009868	0.27862204	2.3216268	21	12 9.7	19.6
317859 2003 TM_{55}	17.3	X	120.44267	214.01658	73.13239	7.21576	0.1252027	0.28453773	2.2893357	21	—	—
317860 2003 UT	16.6	X	74.61118	1.91228	344.39585	25.59009	0.2031190	0.28541974	2.2846169	21	—	—
317861 2003 UC_{2}	17.0	X	303.49582	76.24044	237.02748	3.80758	0.1985075	0.26190591	2.4193898	21	4 25.2	20.1
317862 2003 UE_{18}	16.6	X	50.09663	33.48371	321.28778	1.78886	0.1183410	0.22764430	2.6564289	21	12 30.9	20.3
317863 2003 UT_{23}	17.5	X	262.85501	47.05382	29.56632	2.48543	0.1661650	0.26727857	2.3868582	21	8 29.5	20.4
317864 2003 UC_{26}	16.7	X	68.89643	171.32498	183.74378	11.54315	0.1508830	0.23009844	2.6375069	21	—	—
317865 2003 UU_{27}	16.0	X	261.29829	249.63692	118.07509	6.53913	0.1879922	0.20544445	2.8445033	21	5 23.9	20.4
317866 2003 UR_{28}	17.6	X	293.07705	81.52784	323.59332	3.80651	0.2110135	0.26931824	2.3747918	21	8 21.4	20.0
317867 2003 UR_{34}	17.1	X	189.64598	235.83742	238.57697	3.37757	0.0166470	0.20998320	2.8033652	21	7 31.6	21.0
317868 2003 UJ_{39}	17.3	X	198.51904	94.97483	46.39355	7.58108	0.0631050	0.26787092	2.3833382	21	9 22.7	20.6
317869 2003 UO_{39}	17.3	X	31.09755	279.34243	201.04175	3.36936	0.1524215	0.23728319	2.5839934	21	1 3.9	19.9
317870 2003 UQ_{47}	17.1	X	68.89564	220.56832	216.08210	20.27417	0.0880753	0.35067366	1.9915931	21	—	—
317871 2003 UD_{52}	17.2	X	293.47510	126.52866	270.64659	7.73028	0.1798419	0.26873123	2.3782488	21	8 12.3	19.9
317872 2003 UG_{55}	15.3	X	6.21208	69.42485	260.36070	12.97263	0.0723347	0.21325913	2.7745824	21	9 10.9	19.1
317873 2003 UJ_{59}	16.7	X	27.23547	49.74734	300.82426	2.13999	0.1217347	0.22321337	2.6914682	21	11 24.5	19.9
317874 2003 UJ_{67}	15.7	X	83.49640	120.74792	180.44428	3.93661	0.1345735	0.17090571	3.2158689	21	11 26.1	20.5
317875 2003 UX_{75}	16.5	X	314.53213	269.00906	1.49265	11.65699	0.1462808	0.25613228	2.4556125	21	3 22.2	19.4
317876 2003 UW_{78}	16.5	X	317.83553	83.71950	305.23654	5.19357	0.0399276	0.21655888	2.7463258	21	9 23.3	20.0
317877 2003 UQ_{93}	17.5	X	351.06146	359.66295	349.11339	2.74298	0.1821472	0.27320813	2.3521967	21	10 5.4	19.1
317878 2003 UY_{112}	17.5	X	255.54858	287.61265	135.31355	4.57841	0.2351700	0.26508873	2.3999851	21	7 20.8	21.0
317879 2003 US_{113}	16.9	X	269.23200	320.78460	132.38534	7.25605	0.1930443	0.27036603	2.3686522	21	9 29.2	19.7
317880 2003 UP_{115}	17.7	X	271.58608	117.31785	310.26006	4.16616	0.1695451	0.26811909	2.3818673	21	8 26.4	20.4
317881 2003 UT_{116}	16.8	X	296.31276	286.55632	111.85522	3.34758	0.2048351	0.26912181	2.3759472	21	8 19.3	19.1
317882 2003 UA_{117}	16.2	X	65.33341	279.40632	62.01477	6.17035	0.2071430	0.22749564	2.6575860	21	—	—
317883 2003 UB_{120}	16.6	X	306.43088	13.68709	355.61065	4.07182	0.0911174	0.21187697	2.7866358	21	8 8.4	20.0
317884 2003 UK_{122}	15.2	X	74.38577	182.62895	216.73241	9.79070	0.0964436	0.17982081	3.1086805	21	—	—
317885 2003 UU_{138}	15.4	X	109.72203	324.38664	17.04738	9.95136	0.0698548	0.18029190	3.1032629	21	—	—
317886 2003 UR_{145}	17.0	X	245.48809	19.03797	63.26626	6.23758	0.1439770	0.26464497	2.4026672	21	8 19.9	20.3
317887 2003 UM_{150}	16.7	X	276.77290	182.30922	241.66955	5.36084	0.1465084	0.26759020	2.3850048	21	8 30.9	19.6
317888 2003 UD_{154}	17.2	X	229.51969	277.37431	47.65367	4.25229	0.1688843	0.30526111	2.1845151	21	2 21.8	20.6
317889 2003 UZ_{159}	17.8	X	215.77860	312.89611	326.66642	0.61901	0.1813460	0.29699233	2.2248764	21	—	—
317890 2003 UY_{160}	17.6	X	208.72330	261.19443	257.18790	1.28592	0.1414724	0.27207934	2.3586980	21	10 15.9	20.9
317891 2003 UL_{163}	17.2	X	266.03810	214.24067	177.31791	7.04100	0.1602291	0.26362203	2.4088786	21	6 30.2	20.5
317892 2003 UC_{165}	17.6	X	263.03858	350.11788	47.33324	1.26922	0.1776602	0.26409533	2.4059997	21	7 2.7	20.9
317893 2003 UQ_{178}	17.1	X	18.25678	135.81620	280.94403	1.80009	0.1196859	0.22944335	2.6425247	21	—	—
317894 2003 UP_{188}	15.0	X	117.09327	307.99828	14.41816	17.74451	0.1411141	0.17552650	3.1591791	21	—	—
317895 2003 UD_{203}	16.7	X	319.61632	93.18839	306.69243	2.26088	0.1798113	0.21670589	2.7450836	21	10 1.8	19.6
317896 2003 UE_{203}	17.4	X	56.05653	79.84509	239.74373	3.88637	0.1164153	0.27724341	2.3293168	21	12 2.6	20.1
317897 2003 UK_{209}	16.6	X	345.51831	13.09105	68.17897	3.44462	0.1385094	0.22770942	2.6559224	21	—	—
317898 2003 UQ_{211}	16.5	X	335.61785	19.52413	29.40681	5.50739	0.1040764	0.21961300	2.7208046	21	11 17.3	19.6
317899 2003 US_{215}	17.6	X	280.43489	319.24193	121.39404	2.89189	0.1675649	0.27147143	2.3622179	21	10 1.9	20.1
317900 2003 UU_{217}	17.5	X	282.55555	199.83829	232.90871	3.87392	0.1987513	0.27155496	2.3617335	21	9 14.6	19.9
317901 2003 UM_{223}	17.0	X	30.40972	241.24390	85.18073	4.58633	0.1533130	0.27480443	2.3430788	21	11 13.4	19.5
317902 2003 UU_{230}	17.5	X	257.90140	79.18700	3.39204	3.18431	0.1950487	0.26633902	2.3924683	21	8 26.5	20.5
317903 2003 UP_{236}	17.1	X	336.94125	236.43869	105.62216	3.34950	0.2025907	0.26895941	2.3769035	21	8 19.1	18.6
317904 2003 UO_{240}	17.0	X	259.21794	84.55422	20.62883	9.05936	0.1216722	0.27103329	2.3647630	21	10 10.7	19.8
317905 2003 UM_{249}	16.2	X	3.10084	292.09113	81.35592	6.15348	0.1301378	0.22034858	2.7147461	21	11 19.4	19.3
317906 2003 UW_{257}	16.6	X	355.32698	329.33227	115.95413	3.29567	0.1824597	0.22653280	2.6651111	21	—	—
317907 2003 UU_{258}	16.9	X	298.24520	303.19598	92.21515	4.07359	0.2105298	0.26783086	2.3835758	21	8 17.8	19.1
317908 2003 UG_{261}	17.1	X	292.39829	32.50015	40.53483	3.15854	0.2479210	0.27199602	2.3591796	21	9 27.9	19.1
317909 2003 UN_{265}	15.6	X	221.76687	54.37304	324.99634	6.94788	0.1754158	0.19895621	2.9060141	21	4 27.5	20.4
317910 2003 UN_{269}	17.8	X	309.38902	121.12247	245.07174	1.52605	0.2352149	0.26757007	2.3851244	21	7 17.4	19.8
317911 2003 UO_{278}	16.6	X	275.53031	76.23763	313.88506	2.91374	0.1066348	0.20951382	2.8075506	21	7 19.4	20.3
317912 2003 UP_{279}	17.1	X	336.12466	238.62206	155.94037	6.64396	0.1072583	0.27591014	2.3368147	21	11 14.4	19.4
317913 2003 UA_{288}	17.8	X	258.80625	194.86357	219.59898	5.71543	0.0733739	0.26600891	2.3944472	21	8 3.6	21.0
317914 2003 UA_{291}	17.7	X	274.38449	222.45869	150.25754	1.49239	0.2053388	0.26255564	2.4153968	21	6 8.5	20.9
317915 2003 UW_{303}	17.4	X	224.40959	107.25532	353.90022	6.36780	0.1929990	0.26468115	2.4024483	21	8 14.9	21.0
317916 2003 UL_{307}	17.2	X	131.29665	263.43843	1.47532	6.54822	0.1177270	0.28200447	2.3030254	21	12 14.2	20.6
317917 Jodelle	16.3	X	113.39877	116.98168	195.86772	4.65295	0.1576773	0.17814117	3.1281904	21	—	—
317918 2003 UF_{323}	15.1	X	132.64769	246.93530	24.14405	12.98891	0.0926456	0.17067057	3.2188219	21	12 3.2	20.2
317919 2003 US_{325}	15.8	X	54.51383	132.73385	205.36532	15.23601	0.1077046	0.17421511	3.1750130	21	12 4.2	20.4
317920 2003 UJ_{328}	15.5	X	45.65556	186.08105	199.03677	13.11850	0.0182354	0.17860159	3.1228120	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
317921 2003 UM_{333}	18.1	X	310.11038	82.18737	309.03646	0.84021	0.1871149	0.27272804	2.3549563	21	9 7.2	19.9
317922 2003 UJ_{337}	15.2	X	155.36552	247.85845	11.37645	9.01902	0.0599451	0.17496348	3.1659528	21	12 13.9	20.1
317923 2003 UJ_{338}	16.2	X	149.87433	93.92961	181.90778	4.37609	0.1114054	0.17727786	3.1383380	21	12 28.4	21.2
317924 2003 UY_{344}	16.0	X	224.46399	19.95903	212.84606	4.40509	0.0813610	0.18262740	3.0767491	21	—	—
317925 2003 UE_{345}	17.5	X	311.53988	234.80791	231.18107	2.35889	0.1154463	0.28392679	2.2926185	21	—	—
317926 2003 UH_{347}	16.5	X	350.31302	84.97929	174.36703	5.65784	0.1014571	0.26085247	2.4258992	21	5 12.3	19.0
317927 2003 UK_{349}	16.3	X	343.17421	312.80189	152.39563	5.20866	0.0880363	0.17714276	3.1399334	21	—	—
317928 2003 UP_{369}	16.0	X	89.05723	35.50635	333.35866	5.11315	0.1069840	0.17786101	3.1314745	21	—	—
317929 2003 US_{374}	15.8	X	23.96097	173.30765	208.26562	8.92011	0.0742600	0.17390322	3.1788080	21	12 12.9	20.1
317930 2003 UW_{388}	18.1	X	217.21006	358.19732	103.16643	6.21751	0.1945527	0.26433369	2.4045531	21	8 7.1	21.8
317931 2003 VW_{1}	16.8	X	156.61560	81.75551	253.92342	6.23077	0.1386627	0.29471403	2.2363281	21	—	—
317932 2003 WC_{2}	17.7	X	246.20006	210.88159	238.25102	0.61607	0.1533569	0.26591655	2.3950016	21	8 25.6	20.7
317933 2003 WM_{4}	15.7	X	316.56781	271.63575	320.17826	7.65628	0.0670288	0.18875521	3.0097939	21	2 24.0	19.9
317934 2003 WJ_{11}	16.1	X	313.82023	68.73556	31.68102	17.89622	0.0955471	0.22360570	2.6883190	21	12 20.7	19.6
317935 2003 WS_{31}	15.3	X	115.55626	119.57303	240.62871	9.88809	0.0817195	0.17989513	3.1078241	21	—	—
317936 2003 WX_{32}	16.0	X	280.26991	106.73248	290.72534	4.55290	0.0632323	0.20937301	2.8088093	21	8 10.2	19.8
317937 2003 WP_{35}	17.5	X	296.01633	94.20596	313.02561	6.21942	0.0945301	0.26829586	2.3808209	21	9 15.4	20.1
317938 2003 WC_{47}	16.9	X	46.79134	51.75251	338.64021	2.97367	0.1104364	0.22862758	2.6488070	21	—	—
317939 2003 WD_{48}	17.4	X	30.40981	204.18003	146.93687	4.68394	0.1670426	0.27704755	2.3304145	21	12 19.2	20.2
317940 2003 WB_{51}	17.3	X	211.65499	131.07003	47.98958	5.65300	0.1673740	0.27506685	2.3415883	21	11 12.9	20.4
317941 2003 WF_{54}	16.3	X	271.19616	165.20627	276.65397	2.07086	0.0437739	0.21480053	2.7612930	21	9 29.1	20.0
317942 2003 WJ_{57}	17.4	X	13.57128	283.15524	49.85348	3.11779	0.1916961	0.27308703	2.3528921	21	10 31.2	19.6
317943 2003 WT_{59}	17.2	X	103.72528	120.21756	200.26967	2.80806	0.2443991	0.28523708	2.2855921	21	—	—
317944 2003 WS_{63}	16.7	X	202.08516	62.83240	60.02687	4.84759	0.1716332	0.26153076	2.4217029	21	8 23.3	20.6
317945 2003 WP_{67}	16.0	X	173.32235	330.08298	26.59387	2.11975	0.2000769	0.18734678	3.0248596	21	2 24.6	21.1
317946 2003 WS_{75}	15.9	X	266.81285	155.73614	313.82448	8.17313	0.0523290	0.21872787	2.7281399	21	10 25.8	19.7
317947 2003 WX_{80}	16.6	X	102.57715	319.30122	19.08175	5.83894	0.2077083	0.28599623	2.2815457	21	—	—
317948 2003 WU_{84}	17.0	X	288.63168	294.17253	100.81117	6.43301	0.2217969	0.26582728	2.3955378	21	7 28.2	19.6
317949 2003 WO_{93}	15.8	X	81.81713	58.79230	31.10244	6.41519	0.0876874	0.18507668	3.0495441	21	2 28.2	19.9
317950 2003 WO_{113}	17.9	X	274.90762	25.99485	16.59060	2.96728	0.1745991	0.26501382	2.4004373	21	7 27.1	20.8
317951 2003 WV_{132}	17.9	X	265.06512	324.70003	66.37445	2.30073	0.2192055	0.26212813	2.4180222	21	6 20.5	21.3
317952 2003 WM_{135}	16.8	X	221.90000	27.16422	91.45892	3.47769	0.1616066	0.26381424	2.4077084	21	9 7.3	20.3
317953 2003 WT_{150}	17.7	X	270.65215	212.31938	190.22775	5.05986	0.2213217	0.26423155	2.4051727	21	7 11.9	21.0
317954 2003 WP_{160}	15.8	X	197.51003	92.74282	240.50039	7.61611	0.0494526	0.18527146	3.0474063	21	2 11.1	20.5
317955 2003 WC_{161}	16.5	X	347.23090	216.21743	82.51890	3.26083	0.0387085	0.20268051	2.8703051	21	7 7.9	20.1
317956 2003 WV_{175}	17.9	X	212.61754	23.97809	117.90450	2.37571	0.1285053	0.26739123	2.3861877	21	10 1.1	21.3
317957 2003 WW_{194}	16.3	X	280.86934	296.11574	189.10047	13.09382	0.1327993	0.22493590	2.6777100	21	11 30.7	19.7
317958 2003 XG	15.2	X	90.94319	55.13561	307.23435	7.11364	0.5126395	0.17586183	3.1551620	21	1 25.1	19.7
317959 2003 XA_{15}	15.5	X	86.01795	14.31022	303.07896	25.42312	0.2352920	0.27594402	2.3366234	21	—	—
317960 2003 XE_{16}	15.4	X	82.76669	346.28076	66.23635	11.32637	0.0996286	0.17844179	3.1246760	21	1 15.9	19.7
317961 2003 YM_{19}	16.8	X	187.39985	130.39585	83.61823	7.64173	0.0441786	0.27495666	2.3422139	21	12 14.3	19.7
317962 2003 YU_{21}	16.9	X	290.22624	87.02718	79.12198	3.63599	0.1439763	0.27742263	2.3283135	21	—	—
317963 2003 YM_{36}	17.6	X	89.97624	198.54204	82.97778	23.67556	0.0487763	0.38217419	1.8805944	21	12 6.8	19.5
317964 2003 YZ_{47}	16.4	X	256.50208	163.05139	299.80647	1.08599	0.1787745	0.21044201	2.7992891	21	9 17.4	20.3
317965 2003 YQ_{53}	17.3	X	216.60982	24.72773	76.97770	3.29356	0.1688552	0.26089507	2.4256351	21	8 8.9	21.0
317966 2003 YX_{53}	17.3	X	204.82654	164.65294	246.73899	3.67206	0.2233882	0.25429945	2.4673974	21	5 21.2	21.5
317967 2003 YH_{54}	17.1	X	277.26611	309.56026	87.36578	7.28742	0.1532655	0.26403865	2.4063440	21	7 25.9	20.0
317968 2003 YO_{63}	16.8	X	183.67376	21.13886	105.98512	11.86161	0.1411083	0.25638496	2.4539988	21	8 11.4	20.7
317969 2003 YG_{67}	17.1	X	244.55346	264.89408	94.80997	2.26910	0.1903933	0.25498922	2.4629457	21	4 23.4	21.0
317970 2003 YQ_{72}	17.4	X	346.22582	95.72225	297.68488	3.83449	0.1039987	0.27217788	2.3581287	21	11 26.7	19.7
317971 2003 YC_{78}	16.9	X	278.28874	332.99284	86.76495	7.44102	0.1048566	0.26313488	2.4118508	21	9 10.1	19.8
317972 2003 YN_{78}	16.4	X	135.30744	153.90877	290.98618	8.18437	0.1049539	0.24426299	2.5345310	21	4 18.5	20.1
317973 2003 YT_{88}	17.5	X	237.42721	349.97747	68.21177	3.48005	0.1895334	0.25681891	2.4512337	21	6 30.7	21.2
317974 2003 YD_{111}	17.3	X	201.88455	30.27675	108.54823	2.50780	0.1354663	0.25986695	2.4320287	21	9 14.1	20.8
317975 2003 YC_{116}	15.7	X	199.53721	90.86354	96.87341	14.93129	0.1267714	0.21050246	2.7987532	21	11 11.9	20.2
317976 2003 YC_{118}	17.5	X	150.97426	288.51655	304.07595	15.97231	0.0485402	0.38002391	1.8876817	21	12 15.5	19.7
317977 2003 YJ_{141}	16.2	X	257.60047	284.44898	42.47731	11.85272	0.0505787	0.24590868	2.5232105	21	4 11.3	19.6
317978 2003 YA_{146}	16.2	X	55.00698	59.43411	78.85704	14.00249	0.1239620	0.23650440	2.5896629	21	3 24.5	19.4
317979 2003 YU_{146}	15.2	X	42.77817	24.91518	87.52412	17.15537	0.0207237	0.17689146	3.1429066	21	1 30.1	19.7
317980 2003 YU_{149}	14.7	X	344.93703	281.24344	70.15976	10.67963	0.0808520	0.15125494	3.4886950	21	9 13.9	19.4
317981 2003 YM_{172}	17.3	X	126.90674	221.69185	6.41758	2.79165	0.1391364	0.26232224	2.4168293	21	10 22.5	21.1
317982 2004 AV	16.7	X	245.56046	318.34510	135.69239	12.62718	0.1199073	0.26382703	2.4076306	21	9 8.1	19.9
317983 2004 AT_{6}	15.4	X	239.56745	14.52236	305.32447	10.01072	0.1101191	0.18305624	3.0719421	21	3 7.8	20.2
317984 2004 BC_{11}	15.4	X	72.48580	106.71848	300.16784	25.83607	0.4934319	0.23005920	2.6378068	21	2 4.2	17.7
317985 2004 BQ_{16}	16.5	X	101.06551	68.85355	52.27697	9.75253	0.1411045	0.24335868	2.5408059	21	5 4.5	19.9
317986 2004 BB_{25}	15.2	X	126.42547	257.85903	131.66650	10.85621	0.0659408	0.17520257	3.1630719	21	2 6.3	19.6
317987 2004 BQ_{34}	16.8	X	189.88786	118.08988	112.01253	9.26784	0.1105860	0.27023670	2.3694079	21	12 29.9	20.2
317988 2004 BT_{36}	17.2	X	138.01884	259.72732	311.97628	5.63488	0.0839809	0.25951797	2.4342084	21	10 8.1	20.8
317989 2004 BT_{49}	16.8	X	245.44258	27.06024	128.01875	5.99894	0.0773836	0.21250516	2.7811413	21	11 25.7	20.8
317990 2004 BK_{69}	16.7	X	165.48033	182.05587	51.96147	4.74309	0.1654209	0.26571907	2.3961881	21	12 5.1	20.4
317991 2004 BD_{71}	15.6	X	138.17144	289.87939	116.33140	10.64582	0.1051167	0.18050340	3.1008383	21	3 18.9	20.4
317992 2004 BC_{78}	16.2	X	167.37801	345.66484	117.55157	4.47155	0.1028152	0.19239952	2.9716664	21	6 22.5	20.8
317993 2004 BO_{116}	17.1	X	222.44308	98.70769	358.60206	11.14135	0.1870221	0.25778494	2.4451060	21	8 10.3	21.0
317994 2004 BS_{116}	17.3	X	146.58965	218.91911	9.24055	19.70010	0.0712947	0.37527362	1.9035781	21	11 21.9	20.0
317995 2004 BM_{120}	16.5	X	77.52307	59.67531	101.96966	14.25487	0.1694209	0.24200138	2.5502973	21	6 3.1	19.8
317996 2004 BH_{136}	15.1	X	67.55545	221.55658	96.51742	7.06323	0.0580346	0.15422525	3.4437561	21	11 16.9	20.0
317997 2004 BU_{147}	17.3	X	235.21120	83.46219	348.12149	2.06543	0.1623787	0.25671842	2.4518733	21	7 19.3	20.8
317998 2004 BK_{148}	16.9	X	194.39310	16.39024	107.46620	6.39673	0.0733945	0.25539663	2.4603257	21	8 21.3	20.4
317999 2004 BL_{150}	15.7	X	65.09202	326.12373	100.71049	3.49289	0.1099431	0.17161884	3.2069541	21	1 10.3	19.7
318000 2004 CP_{12}	16.1	X	131.01183	309.24168	329.71887	2.93016	0.0639890	0.21206322	2.7850039	21	12 18.9	20.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
318001 2004 CP_{24}	17.4	X	347.64906	47.69308	345.63262	20.09534	0.0622728	0.37846101	1.8928751	21	12 26.9	19.6
318002 2004 CZ_{41}	16.9	X	171.56262	333.09083	80.31125	8.43893	0.2203108	0.24429642	2.5342997	21	4 29.8	21.2
318003 2004 CM_{49}	17.6	X	109.03819	77.18671	140.51306	25.25517	0.1057037	0.36796111	1.9287152	21	10 5.9	20.5
318004 2004 CQ_{54}	16.5	X	359.66126	57.16479	164.31702	8.14771	0.1389557	0.23542552	2.5975686	21	4 3.4	19.2
318005 2004 CV_{58}	15.4	X	143.62036	341.19073	108.81679	10.10110	0.0531056	0.18573767	3.0423048	21	5 11.3	20.0
318006 2004 CV_{60}	16.3	X	40.58019	304.24759	358.40658	12.53174	0.1190833	0.25753106	2.4467127	21	10 13.0	19.2
318007 2004 CG_{75}	17.5	X	255.44912	29.44182	171.07980	2.10155	0.1654791	0.27399132	2.3477121	21	—	—
318008 2004 CN_{83}	15.0	X	60.59004	80.27203	95.98522	0.80665	0.1473125	0.12613583	3.9377100	21	5 29.1	20.1
318009 2004 CD_{92}	14.5	X	46.09625	303.84402	240.56992	7.74280	0.1283264	0.12495669	3.9624432	21	5 15.7	19.7
318010 2004 CJ_{93}	17.4	X	231.01882	86.36759	349.46635	21.11706	0.1029085	0.36662005	1.9334157	21	8 8.3	19.9
318011 2004 CV_{99}	14.6	X	95.44110	122.80738	9.73424	10.85557	0.1597340	0.12469581	3.9679678	21	5 18.7	20.4
318012 2004 CN_{110}	17.3	X	147.46730	254.03491	341.14269	19.19854	0.0630556	0.37546951	1.9029159	21	12 9.5	20.0
318013 2004 CY_{118}	17.3	X	188.26969	311.83686	113.16488	2.23407	0.1045957	0.24515693	2.5283660	21	5 25.2	21.2
318014 2004 DE_{2}	14.6	X	92.46715	160.36428	337.41561	8.85453	0.2011874	0.12575663	3.9456219	21	5 27.9	20.4
318015 2004 DG_{4}	16.9	X	187.26073	162.33793	11.11184	19.85738	0.0434302	0.37149623	1.9164601	21	10 28.7	19.1
318016 2004 DZ_{22}	16.5	X	97.08986	324.66140	201.24770	13.17608	0.1118481	0.24406369	2.5359106	21	6 23.7	20.2
318017 2004 DH_{27}	16.9	X	119.94567	216.65459	13.99974	4.42856	0.1561915	0.25571565	2.4582790	21	10 19.1	20.7
318018 2004 DB_{34}	16.4	X	86.75405	1.70928	166.93601	13.29465	0.0875325	0.24005196	2.5640858	21	6 11.9	20.0
318019 2004 DZ_{40}	17.6	X	147.86974	103.91635	357.93241	19.96692	0.0857600	0.35505981	1.9751574	21	5 12.2	20.4
318020 2004 DD_{44}	17.4	X	83.29685	140.99103	57.73693	5.91508	0.1995037	0.24475552	2.5311296	21	8 6.3	20.9
318021 2004 DM_{63}	17.4	X	326.96377	275.59589	155.92914	3.47168	0.1025825	0.26745951	2.3857816	21	12 17.6	19.8
318022 2004 DE_{68}	16.5	X	156.16956	283.62712	125.35554	15.03566	0.1062966	0.23939624	2.5687658	21	4 6.6	20.6
318023 2004 ET_{1}	16.2	X	21.78737	94.53143	163.02853	15.29943	0.0352870	0.24453437	2.5326555	21	7 1.8	19.7
318024 2004 EE_{6}	15.8	X	302.76284	70.73752	186.96587	9.07528	0.0377355	0.17451150	3.1714170	21	3 17.2	20.1
318025 2004 EO_{6}	15.8	X	286.14110	352.77247	356.77708	15.47562	0.1493685	0.24349088	2.5398861	21	5 27.2	19.5
318026 2004 ES_{13}	16.6	X	64.45272	75.24607	139.69648	7.71977	0.1560026	0.24273777	2.5451369	21	7 24.3	19.8
318027 2004 EW_{15}	17.0	X	348.81147	352.69166	174.08361	14.07203	0.1830458	0.22592325	2.6699027	21	—	—
318028 2004 EB_{16}	17.3	X	158.53368	280.42300	288.49554	0.88515	0.1721585	0.25759259	2.4463231	21	10 27.9	21.2
318029 2004 EN_{23}	16.7	X	253.60427	230.97568	198.00939	20.67467	0.1025897	0.36438591	1.9413105	21	8 14.9	19.2
318030 2004 EV_{27}	17.2	X	78.53514	340.50517	172.04170	7.97223	0.1383513	0.23797251	2.5790010	21	5 17.4	20.4
318031 2004 ES_{37}	15.7	X	342.24762	232.78037	262.78269	7.86544	0.1756393	0.22105409	2.7089668	21	—	—
318032 2004 EX_{37}	16.9	X	185.87823	291.17393	285.76928	1.77514	0.1643769	0.26253758	2.4155076	21	12 2.9	20.4
318033 2004 EN_{48}	17.6	X	239.42474	147.48364	35.18497	3.45568	0.1263362	0.26719776	2.3873394	21	12 26.2	20.4
318034 2004 EW_{50}	16.7	X	160.81091	342.05334	355.15319	7.56151	0.1677112	0.22216069	2.6999636	21	1 16.3	20.9
318035 2004 EC_{53}	17.1	X	82.86610	80.45281	41.22006	5.16649	0.2517961	0.23554302	2.5967047	21	4 27.9	20.1
318036 2004 EU_{53}	16.2	X	302.83545	25.10534	137.31027	8.97856	0.1499724	0.21579320	2.7528183	21	—	—
318037 2004 EY_{62}	16.8	X	54.80002	299.44524	184.78464	7.63221	0.1363961	0.23077966	2.6323140	21	2 23.9	19.7
318038 2004 ED_{65}	15.8	X	298.86506	74.59067	97.90635	14.21957	0.1074141	0.21819929	2.7325440	21	—	—
318039 2004 EK_{78}	17.2	X	30.34464	179.54841	68.75268	2.76497	0.0582491	0.29898691	2.2149705	21	7 4.1	19.4
318040 2004 ED_{91}	16.9	X	10.77258	194.77816	41.64736	2.93169	0.1396086	0.23772801	2.5807691	21	5 15.5	19.5
318041 2004 EN_{91}	17.7	X	114.23424	163.71418	12.63680	3.37483	0.1646530	0.24628936	2.5206098	21	8 6.2	21.4
318042 2004 EF_{93}	16.0	X	288.73919	156.95324	163.87520	9.57067	0.0753280	0.18309989	3.0714538	21	5 14.4	20.4
318043 2004 FG_{10}	17.2	X	238.64158	243.50345	162.43829	10.95037	0.1246839	0.24661320	2.5184027	21	6 22.5	21.1
318044 2004 FQ_{17}	16.0	X	139.75556	247.17631	216.25741	23.00931	0.3321607	0.24234271	2.5479021	21	6 7.7	20.8
318045 2004 FU_{17}	17.1	X	227.28735	247.43288	189.46692	21.84140	0.1259818	0.36136253	1.9521236	21	7 18.8	20.1
318046 2004 FT_{23}	16.8	X	67.54757	195.74097	352.79874	12.38888	0.0347658	0.24016073	2.5633115	21	5 30.3	20.3
318047 2004 FB_{26}	16.5	X	78.02250	203.26324	15.15038	13.60759	0.1125355	0.24391441	2.5369452	21	8 17.7	20.1
318048 2004 FM_{30}	16.8	X	74.72452	153.19807	70.57079	23.26768	0.0358978	0.35726226	1.9670314	21	8 17.1	19.5
318049 2004 FB_{31}	16.6	X	42.86362	140.07042	116.39335	19.53786	0.2990657	0.23809994	2.5780808	21	9 20.8	20.0
318050 2004 FC_{32}	18.7	X	138.71118	172.80069	80.83262	10.93410	0.3392509	0.36979586	1.9223303	21	12 15.8	22.0
318051 2004 FY_{50}	17.2	X	0.25475	99.51099	126.11436	4.44104	0.1812444	0.23218660	2.6216696	21	4 7.9	19.6
318052 2004 FC_{52}	17.4	X	5.24564	15.25438	147.91498	3.06919	0.0969305	0.28323485	2.2963509	21	1 10.2	19.7
318053 2004 FR_{52}	16.4	X	297.75518	277.10482	339.10420	11.15742	0.2232039	0.22616115	2.6680301	21	2 7.1	20.3
318054 2004 FA_{55}	17.2	X	115.21338	28.95891	125.75947	3.50084	0.0708457	0.24155558	2.5534342	21	6 26.8	20.5
318055 2004 FV_{60}	15.9	X	268.72117	217.17922	156.94710	6.01978	0.1954070	0.24269932	2.5454057	21	6 6.4	19.6
318056 2004 FQ_{67}	16.2	X	42.47221	275.47447	167.19514	9.15237	0.0273573	0.21910997	2.7249673	21	—	—
318057 2004 FF_{83}	17.0	X	15.13617	277.07248	300.26780	13.59006	0.2543080	0.23315438	2.6144098	21	4 15.8	19.4
318058 2004 FE_{84}	15.3	X	147.83330	281.11927	139.12900	11.84982	0.1795113	0.17888400	3.1195243	21	4 21.2	20.5
318059 2004 FY_{88}	17.1	X	24.22838	156.34847	47.64675	8.15128	0.0850309	0.23515981	2.5995249	21	4 23.8	20.0
318060 2004 FT_{90}	16.7	X	254.47227	29.89520	41.92536	22.75293	0.0718564	0.36271426	1.9472706	21	9 19.5	19.2
318061 2004 FR_{91}	17.1	X	28.08897	195.81016	23.20642	4.76007	0.1857229	0.23616707	2.5921283	21	5 27.5	19.4
318062 2004 FX_{91}	16.5	X	339.06317	224.81809	40.09123	7.91361	0.1306288	0.23347008	2.6120525	21	4 28.5	19.2
318063 2004 FM_{122}	16.4	X	72.25551	300.60386	280.66342	11.34368	0.1808699	0.24311357	2.5425134	21	8 13.5	19.9
318064 2004 FS_{127}	17.8	X	54.61267	353.03837	200.34525	3.19201	0.1326460	0.23752091	2.5822690	21	6 4.1	20.8
318065 2004 FQ_{128}	16.5	X	60.61614	112.42275	106.08144	11.14149	0.1642397	0.24039137	2.5616717	21	7 26.1	19.5
318066 2004 FX_{136}	15.9	X	12.66013	170.41080	115.60171	14.56026	0.0958775	0.24238320	2.5476184	21	8 2.7	18.7
318067 2004 FS_{140}	17.9	X	62.98485	45.43954	177.33406	1.50377	0.1182682	0.30079534	2.2060837	21	7 29.3	20.1
318068 2004 FS_{143}	16.0	X	22.43877	200.63111	41.34545	12.54693	0.1290880	0.23625137	2.5915116	21	6 15.1	18.8
318069 2004 FW_{147}	15.9	X	6.25965	108.44552	127.52369	13.63246	0.1278766	0.23173165	2.6250997	21	5 12.8	19.0
318070 2004 FW_{148}	16.7	X	329.07223	333.10624	299.24110	4.44112	0.1916456	0.23600866	2.5932880	21	4 9.3	19.6
318071 2004 FZ_{152}	16.6	X	187.22479	90.38307	346.33548	11.59442	0.0668763	0.24262937	2.5458949	21	6 6.5	20.5
318072 2004 FE_{161}	16.7	X	344.63568	289.11379	355.33798	4.82926	0.0388819	0.24046762	2.5611301	21	6 12.9	19.9
318073 2004 GN_{1}	16.4	X	343.58059	149.63071	97.47264	15.03206	0.2170255	0.22967852	2.6407207	21	4 8.4	19.5
318074 2004 GP_{1}	16.4	X	18.94916	100.92461	144.05010	13.45468	0.1543891	0.23501198	2.6006149	21	6 17.7	19.2
318075 2004 GW_{8}	17.0	X	204.27407	23.39450	350.71705	3.57077	0.1157026	0.28784749	2.2717529	21	3 31.8	20.3
318076 2004 GL_{11}	16.8	X	10.04515	160.49246	77.99223	15.95726	0.2304658	0.23437348	2.6053360	21	5 20.5	18.8
318077 2004 GK_{12}	17.1	X	119.97553	309.04812	213.55084	20.51795	0.0339518	0.35630697	1.9705457	21	7 4.8	19.8
318078 2004 GA_{14}	17.2	X	132.93672	142.95433	44.26708	23.27461	0.0976248	0.36149575	1.9516439	21	9 26.9	20.1
318079 2004 GM_{14}	16.8	X	62.31853	150.01325	71.93392	7.10694	0.1960425	0.23996131	2.5647314	21	8 9.9	20.0
318080 2004 GD_{19}	16.5	X	34.12963	202.09567	324.80351	13.11387	0.1897615	0.23238053	2.6202107	21	3 16.1	19.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
318081 2004 GG_{20}	15.1	X	4.29743	264.80525	349.52799	22.02222	0.4528773	0.17544401	3.1601693	21	5 13.6	17.2
318082 2004 GP_{20}	16.2	X	351.64422	222.36856	40.36075	15.29539	0.1001149	0.23538079	2.5978977	21	5 17.9	19.1
318083 2004 GE_{21}	16.5	X	24.84078	132.54748	49.31186	15.28930	0.1204412	0.22909701	2.6451873	21	4 1.2	19.6
318084 2004 GP_{27}	17.2	X	80.56463	78.32995	115.08222	9.30322	0.2893411	0.23995767	2.5647574	21	8 6.9	20.8
318085 2004 GO_{42}	16.7	X	123.94070	2.41994	167.23467	5.44266	0.1929095	0.24401061	2.5362783	21	8 7.6	20.7
318086 2004 GQ_{48}	17.9	X	156.90015	144.59584	11.85441	2.40385	0.1065206	0.30459207	2.1877129	21	8 23.9	21.0
318087 2004 GW_{48}	17.0	X	290.55582	144.06752	206.52951	7.80455	0.0576464	0.24051960	2.5607611	21	6 23.1	20.4
318088 2004 GL_{60}	16.9	X	94.25667	87.05092	63.37503	5.43319	0.1389943	0.23716549	2.5848482	21	6 3.6	20.4
318089 2004 GX_{66}	17.0	X	222.27859	139.84182	10.51303	1.47274	0.1235672	0.25777080	2.4451954	21	10 21.3	20.5
318090 2004 GZ_{70}	16.8	X	117.03330	179.87935	346.37378	3.62848	0.2337859	0.24310837	2.5425496	21	8 1.9	20.9
318091 2004 GD_{72}	16.9	X	66.10209	337.36091	192.13696	13.82359	0.1979022	0.23585920	2.5943834	21	5 31.6	20.1
318092 2004 GA_{75}	16.3	X	299.54779	167.25130	108.53808	15.01081	0.2235971	0.22498704	2.6773042	21	3 8.6	20.3
318093 2004 GJ_{76}	17.3	X	10.44882	262.00655	342.76977	2.91754	0.1851646	0.23669495	2.5882728	21	5 27.7	19.4
318094 2004 GP_{77}	16.1	X	24.88714	114.15547	122.41741	16.77146	0.1414846	0.23680730	2.5874541	21	6 16.7	19.0
318095 2004 GW_{77}	16.1	X	112.16188	192.93141	134.47551	17.75124	0.2294434	0.25890153	2.4380708	21	—	—
318096 2004 GY_{88}	15.9	X	62.63329	357.35065	102.14083	22.89366	0.0286602	0.22648552	2.6654820	21	1 29.0	19.5
318097 2004 HA_{12}	16.5	X	328.10139	54.22253	206.46602	12.70479	0.1521931	0.22854317	2.6494591	21	3 30.9	19.7
318098 2004 HJ_{20}	16.8	X	82.37691	115.45000	111.77130	6.56687	0.1871470	0.24423922	2.5346955	21	9 11.2	20.4
318099 2004 HZ_{28}	15.8	X	305.06797	53.37122	213.37673	12.75979	0.1402087	0.22399518	2.6852019	21	3 6.3	19.7
318100 2004 HU_{33}	16.5	X	342.09293	173.27808	62.71538	15.04246	0.2064500	0.22814750	2.6525215	21	3 22.8	19.7
318101 2004 HY_{40}	13.1	X	29.65292	334.81001	19.69691	23.20811	0.0725656	0.08501016	5.1225807	21	10 28.9	19.8
318102 2004 HM_{43}	16.6	X	20.40162	233.35909	5.15656	13.33911	0.2222976	0.23438234	2.6052704	21	6 12.5	19.1
318103 2004 HP_{45}	16.9	X	349.31263	208.67842	44.56650	8.36507	0.1128004	0.28910236	2.2651743	21	4 25.5	19.1
318104 2004 HT_{45}	16.2	X	18.74967	40.34302	218.72694	7.01982	0.1654038	0.23635019	2.5907892	21	7 7.5	18.7
318105 2004 HR_{50}	16.5	X	38.07026	158.83527	65.15811	16.06862	0.1738668	0.23605529	2.5929465	21	6 24.2	19.3
318106 2004 HM_{54}	15.8	X	282.12921	13.61060	124.38180	8.10281	0.0702794	0.20948229	2.8078324	21	12 22.2	19.4
318107 2004 HN_{74}	17.6	X	258.62003	227.25394	215.12166	2.60956	0.0459650	0.30741823	2.1742842	21	9 22.8	20.1
318108 2004 HC_{75}	16.5	X	24.17824	234.70205	358.86732	14.00135	0.2175126	0.23454231	2.6040855	21	6 13.9	19.1
318109 2004 JG_{2}	16.4	X	359.82132	116.14853	169.32397	11.85145	0.2462994	0.23568642	2.5956513	21	7 7.7	18.5
318110 2004 JK_{2}	17.1	X	46.65951	36.94567	232.01911	3.58938	0.1296813	0.24175399	2.5520369	21	9 6.3	20.1
318111 2004 JK_{12}	16.0	X	82.50656	76.94957	109.73946	15.90780	0.1352648	0.23799770	2.5788191	21	7 7.5	19.2
318112 2004 JU_{12}	15.9	X	314.59637	235.39916	19.02320	14.68147	0.1498026	0.22531564	2.6747005	21	3 10.7	19.5
318113 2004 JJ_{13}	16.8	X	359.70331	108.98585	172.14744	27.45196	0.2478056	0.23386640	2.6091006	21	6 30.9	19.7
318114 2004 JE_{18}	17.0	X	38.97182	175.16463	53.59074	5.67798	0.2300000	0.23571911	2.5954113	21	7 14.8	19.6
318115 2004 JD_{25}	16.9	X	8.02340	132.86965	128.88923	5.34493	0.1499661	0.23453844	2.6041142	21	6 19.2	19.4
318116 2004 JY_{29}	16.7	X	312.23726	335.91336	220.44659	9.87305	0.2106144	0.21843579	2.7305713	21	—	—
318117 2004 JH_{31}	16.1	X	1.74894	187.06678	73.98573	15.48493	0.2182896	0.23204953	2.6227018	21	6 2.6	18.2
318118 2004 KL_{12}	16.4	X	41.76763	93.36472	139.89077	8.31096	0.1569200	0.23623185	2.5916544	21	7 13.5	19.3
318119 2004 KC_{13}	17.2	X	36.53036	161.86539	79.68176	24.01345	0.0399333	0.35105929	1.9901344	21	6 29.6	19.0
318120 2004 KG_{13}	16.6	X	39.84931	20.59351	193.21908	13.05312	0.2251790	0.23337629	2.6127522	21	6 20.9	19.4
318121 2004 KL_{14}	17.1	X	353.38215	77.64438	172.49993	11.12995	0.2281200	0.23016852	2.6369715	21	4 26.4	19.5
318122 2004 KH_{16}	15.7	X	140.26076	68.79503	156.02230	10.48624	0.1421566	0.19330710	2.9623578	21	10 27.6	20.6
318123 2004 LD_{10}	15.7	X	97.63862	359.09965	262.06020	13.89021	0.2749339	0.19016677	2.9948814	21	11 5.2	20.9
318124 2004 LA_{18}	16.6	X	317.88250	108.98917	109.60792	7.85434	0.2055609	0.22112007	2.7084279	21	1 15.5	20.4
318125 2004 LZ_{20}	16.9	X	300.33234	202.53013	156.45388	9.63132	0.1351713	0.23618137	2.5920236	21	7 7.2	20.1
318126 2004 NL_{9}	16.3	X	351.86816	215.59708	122.13834	6.71783	0.1448009	0.23601928	2.5932103	21	9 14.3	18.8
318127 2004 NB_{13}	16.4	X	39.21313	128.05074	121.93359	14.40946	0.1717369	0.23334596	2.6129786	21	8 6.3	19.1
318128 2004 NB_{22}	15.8	X	205.28715	139.86703	157.00446	15.61362	0.1743988	0.20661872	2.8337157	21	1 8.6	20.7
318129 2004 NS_{33}	15.1	X	350.84676	290.02671	67.11685	21.15941	0.2527461	0.17457827	3.1706083	21	10 14.4	18.6
318130 2004 OL_{3}	16.1	X	326.11450	296.07497	309.51600	15.23659	0.2704217	0.22091426	2.7101098	21	2 16.1	19.5
318131 2004 OK_{7}	17.0	X	222.46522	293.33063	324.03912	4.02112	0.1206112	0.26309418	2.4120995	21	—	—
318132 2004 ON_{10}	16.0	X	347.33553	38.05635	329.43458	14.75468	0.2995088	0.17733610	3.1376508	21	10 1.1	18.9
318133 2004 PF_{2}	16.0	X	334.18517	47.11762	327.15460	12.79175	0.1235418	0.23701170	2.5859663	21	9 24.9	18.9
318134 2004 PT_{15}	16.6	X	355.91852	199.77032	112.86270	2.49782	0.2021878	0.23031748	2.6358344	21	8 13.6	18.8
318135 2004 PJ_{24}	17.3	X	275.30454	328.56379	339.80670	1.73344	0.2328585	0.27684909	2.3315281	21	3 11.6	20.8
318136 2004 PM_{29}	16.7	X	113.49685	194.85920	146.77223	0.89559	0.1546625	0.19495851	2.9456056	21	—	—
318137 2004 PS_{33}	16.0	X	273.26727	302.32286	325.92195	12.40727	0.1820139	0.21164239	2.7886945	21	2 3.2	20.4
318138 2004 PK_{39}	16.3	X	281.89220	134.39516	160.25564	13.33963	0.1492813	0.21586609	2.7521986	21	3 19.2	20.2
318139 2004 PB_{41}	15.6	X	143.50319	332.91794	1.13029	12.31506	0.1152351	0.20128757	2.8835318	21	—	—
318140 2004 PL_{42}	15.4	X	3.57791	47.96390	341.27584	14.72685	0.2277097	0.18036665	3.1024054	21	12 10.4	19.1
318141 2004 PD_{46}	17.2	X	331.32786	197.50503	100.85603	7.42723	0.1436956	0.28575013	2.2828555	21	5 29.7	19.3
318142 2004 PO_{52}	17.3	X	262.41390	310.89318	22.96007	2.86321	0.2177831	0.27636365	2.3342575	21	4 2.7	20.9
318143 2004 PO_{59}	15.7	X	134.64316	135.90069	159.05378	11.65303	0.0798053	0.19291844	2.9663351	21	—	—
318144 2004 PR_{64}	16.3	X	304.82189	284.44306	321.77135	6.24103	0.1983390	0.21428438	2.7657253	21	2 5.7	20.0
318145 2004 PQ_{66}	15.9	X	332.51803	130.42515	173.48794	12.10688	0.3068041	0.22544280	2.6736946	21	5 19.6	18.6
318146 2004 PV_{69}	16.0	X	59.26709	203.27651	155.56283	7.96836	0.2190187	0.18599257	3.0395245	21	—	—
318147 2004 PL_{72}	16.4	X	47.85496	178.65272	115.71326	2.51602	0.1661936	0.23871072	2.5736813	21	10 21.7	19.7
318148 2004 PG_{80}	16.0	X	276.12515	114.25547	168.78897	20.20999	0.2168069	0.21374471	2.7703786	21	2 16.9	20.4
318149 2004 PC_{89}	16.3	X	275.51179	138.88318	189.63831	10.91055	0.1780238	0.22052531	2.7132955	21	4 19.5	20.2
318150 2004 PV_{91}	16.6	X	25.64623	144.93014	254.02560	5.29698	0.1761979	0.24548024	2.5261455	21	—	—
318151 2004 PZ_{91}	16.0	X	35.18662	58.08758	288.67618	8.80208	0.1414477	0.18242685	3.0790037	21	11 24.8	20.1
318152 2004 PP_{94}	16.3	X	257.76394	81.04207	197.68313	7.18285	0.1961419	0.21177745	2.7875088	21	1 28.2	20.9
318153 2004 PE_{102}	15.9	X	20.40893	209.20930	167.29148	12.47858	0.1751883	0.18384441	3.0631558	21	12 17.8	20.0
318154 2004 PC_{103}	15.4	X	277.04872	138.24800	198.62097	13.31995	0.2252523	0.21817736	2.7327271	21	4 25.9	19.6
318155 2004 PH_{103}	15.2	X	43.49426	341.10162	345.97805	13.33852	0.3008807	0.17891602	3.1191521	21	12 2.5	19.8
318156 2004 PR_{113}	17.4	X	129.33345	135.62392	212.83376	1.82520	0.2116875	0.25781756	2.4448997	21	—	—
318157 2004 PX_{113}	16.1	X	17.28867	194.25721	132.94524	10.77320	0.0792532	0.23469245	2.6029748	21	10 10.6	19.4
318158 2004 PZ_{113}	16.0	X	273.47968	280.69798	10.23181	8.91860	0.1279712	0.21435369	2.7651291	21	3 8.8	20.0
318159 2004 QH	15.3	X	6.48521	113.73046	236.05204	9.34254	0.2902686	0.17610178	3.1522952	21	10 31.8	18.4
318160 2004 QZ_{2}	18.1	X	320.97862	208.33959	219.53144	0.96964	0.4931133	0.28970184	2.2620483	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
318161 2004 QZ_3	15.5	X	299.16005	57.36565	335.93497	25.65895	0.2587918	0.17207543	3.2012786	21	8 8.2	19.7
318162 2004 QU_4	16.1	X	321.25935	95.64249	242.91612	5.83929	0.0869675	0.22765358	2.6563567	21	7 18.1	19.3
318163 2004 QD_{13}	16.0	X	337.95554	263.36886	132.72975	16.86573	0.2381493	0.17647421	3.1478586	21	11 2.7	19.5
318164 2004 QC_{15}	15.5	X	99.07775	60.67698	293.91215	7.97106	0.1135624	0.19240398	2.9716205	21	—	—
318165 2004 QT_{18}	15.8	X	231.09570	296.68465	345.08434	14.36953	0.1402764	0.20509158	2.8477651	21	1 17.8	20.5
318166 2004 QN_{21}	17.3	X	139.37776	203.62214	146.04311	2.26846	0.1913981	0.25799291	2.4437918	21	1 3.5	20.6
318167 2004 QM_{24}	14.7	X	343.31509	122.50629	254.76800	25.48702	0.2053325	0.17272737	3.1932183	21	9 30.9	18.7
318168 2004 RY	16.2	X	357.30329	71.17661	326.29929	16.01674	0.2107096	0.18207690	3.0829477	21	12 8.1	19.9
318169 2004 RZ_3	16.7	X	52.02258	222.17294	103.23743	6.67620	0.1644547	0.24145569	2.5541383	21	12 5.9	20.1
318170 2004 RO_8	15.2	X	96.90865	159.95948	224.82708	9.17289	0.0992735	0.19794574	2.9158954	21	—	—
318171 2004 RU_{11}	16.1	X	151.87234	327.61363	345.46767	10.30560	0.0753130	0.19685107	2.9266954	21	—	—
318172 2004 RA_{15}	15.7	X	1.74680	94.50068	334.01437	9.35497	0.0873931	0.18852198	3.0122757	21	—	—
318173 2004 RJ_{19}	16.1	X	328.83811	235.33349	158.84794	6.06599	0.2573646	0.17442969	3.1724085	21	10 1.4	19.1
318174 2004 RW_{25}	17.2	X	22.63492	207.84617	184.60723	6.60996	0.1581060	0.29980580	2.2109353	21	—	—
318175 2004 RD_{31}	16.2	X	218.88886	320.68585	11.75098	5.45671	0.1513749	0.21139311	2.7908864	21	3 3.9	20.7
318176 2004 RK_{31}	15.5	X	41.16073	65.14549	349.72248	10.31481	0.1021756	0.19290048	2.9665193	21	—	—
318177 2004 RX_{32}	16.0	X	134.76284	39.66052	352.88425	14.64283	0.1483730	0.20382772	2.8595249	21	2 27.1	20.2
318178 2004 RZ_{35}	17.4	X	282.88278	281.17570	86.51913	3.21937	0.2247042	0.28250291	2.3003156	21	6 8.6	20.2
318179 2004 RD_{56}	16.2	X	305.24235	290.56353	325.84351	7.19465	0.1382531	0.21344644	2.7729589	21	2 26.3	19.9
318180 2004 RV_{59}	16.5	X	23.62293	176.94173	181.45831	3.71479	0.2085043	0.18024778	3.1037693	21	12 3.7	20.2
318181 2004 RG_{60}	17.8	X	78.21582	26.21477	340.40819	3.07445	0.1873579	0.30761130	2.1733743	21	—	—
318182 2004 RR_{62}	15.9	X	52.86853	3.13043	343.04106	10.11456	0.1953604	0.18330360	3.0691778	21	12 25.5	20.4
318183 2004 RT_{66}	16.1	X	300.94241	241.86030	175.51409	11.77025	0.2163260	0.17302521	3.1895527	21	9 10.6	20.0
318184 2004 RQ_{68}	17.1	X	179.22272	297.23927	49.06516	2.13100	0.2016215	0.26238437	2.4164477	21	2 8.8	20.9
318185 2004 RD_{92}	16.5	X	342.28337	104.69036	184.31572	12.39249	0.2538721	0.22655704	2.6649210	21	5 27.6	19.0
318186 2004 RP_{92}	15.7	X	6.60985	63.07059	326.30867	9.31867	0.0952249	0.18291483	3.0735251	21	12 1.0	19.8
318187 2004 RQ_{99}	15.6	X	89.07034	41.73937	331.56411	9.38015	0.1308520	0.19308193	2.9646605	21	—	—
318188 2004 RL_{100}	16.6	X	67.35904	203.76422	187.95850	6.79847	0.1114676	0.25087172	2.4898216	21	—	—
318189 2004 RR_{100}	16.1	X	270.49703	29.82676	324.55348	7.51004	0.1828391	0.22054987	2.7130941	21	5 12.6	20.3
318190 2004 RL_{102}	16.2	X	128.35915	98.69025	269.25641	3.25306	0.0676470	0.19909302	2.9046826	21	1 8.9	20.2
318191 2004 RN_{103}	15.5	X	103.20884	81.99014	248.14112	8.17809	0.1729626	0.18935912	3.0033912	21	—	—
318192 2004 RU_{103}	15.6	X	86.92657	18.74711	305.93665	7.90356	0.0792781	0.18527560	3.0473609	21	12 23.1	20.1
318193 2004 RU_{107}	15.7	X	4.08764	39.76192	358.25933	14.79642	0.1992608	0.18025625	3.1036720	21	12 20.2	19.6
318194 2004 RB_{108}	16.2	X	349.66848	184.74193	205.26063	7.40165	0.1498631	0.17876473	3.1209118	21	11 10.3	19.8
318195 2004 RK_{116}	16.5	X	23.83150	175.64271	112.34734	5.96675	0.2209486	0.23117634	2.6293020	21	9 12.9	19.1
318196 2004 RG_{119}	16.0	X	58.65887	276.44313	146.45685	2.50816	0.0878621	0.19659570	2.9292293	21	—	—
318197 2004 RH_{122}	16.8	X	195.81879	306.71547	30.59727	2.32323	0.0721914	0.20683782	2.8317141	21	2 15.5	20.9
318198 2004 RJ_{125}	17.4	X	197.81115	102.47173	324.50888	4.65720	0.1030630	0.27779131	2.3262530	21	6 5.0	20.7
318199 2004 RT_{131}	16.8	X	198.12382	138.86384	148.17077	2.59774	0.0527640	0.19918524	2.9037860	21	—	—
318200 2004 RJ_{139}	16.0	X	58.16997	187.98773	164.68349	10.59141	0.1126603	0.18603389	3.0390744	21	12 28.1	20.5
318201 2004 RW_{139}	17.4	X	47.67963	185.19659	130.17313	2.44501	0.2156890	0.23876725	2.5732750	21	11 24.6	20.7
318202 2004 RX_{141}	16.0	X	329.82299	242.59455	163.93748	8.26960	0.1960603	0.17660681	3.1462828	21	10 26.7	19.4
318203 2004 RE_{143}	15.5	X	33.32508	46.92526	297.83845	15.08855	0.2490349	0.17941089	3.1134138	21	12 5.8	19.7
318204 2004 RQ_{160}	17.1	X	17.97489	36.11651	319.40184	3.54560	0.1454273	0.23791977	2.5793822	21	11 23.4	20.0
318205 2004 RT_{168}	16.0	X	55.87316	147.34632	182.10664	10.94949	0.2399606	0.18359323	3.0659491	21	12 14.7	20.7
318206 2004 RP_{174}	16.5	X	319.48698	183.57577	197.54991	10.77505	0.1259453	0.23320369	2.6140413	21	9 10.3	19.5
318207 2004 RT_{174}	16.2	X	308.19071	92.20037	177.04937	8.42594	0.1024876	0.21651953	2.7466585	21	3 24.8	19.9
318208 2004 RN_{175}	15.9	X	220.74529	133.12870	204.71846	10.19451	0.2398763	0.21103059	2.7940818	21	3 5.9	21.0
318209 2004 RY_{175}	15.2	X	121.19628	51.76979	301.26296	10.52536	0.1277260	0.19602793	2.9348827	21	—	—
318210 2004 RA_{180}	15.2	X	199.82511	337.74225	299.68871	9.58438	0.0745851	0.19617742	2.9333915	21	—	—
318211 2004 RK_{182}	18.0	X	136.58212	33.16768	316.09917	2.78835	0.2093566	0.31476467	2.1403201	21	—	—
318212 2004 RR_{182}	16.7	X	12.76232	173.38823	246.10837	4.47897	0.1383939	0.24465372	2.5318317	21	—	—
318213 2004 RZ_{183}	15.2	X	11.97718	1.89567	356.85048	25.41699	0.0851596	0.17739943	3.1369040	21	10 19.7	19.6
318214 2004 RM_{187}	15.4	X	134.58222	122.11612	216.32783	11.29677	0.0701935	0.19450707	2.9501614	21	—	—
318215 2004 RT_{187}	15.9	X	79.96918	45.51562	335.51285	12.62520	0.1678724	0.19104429	2.9857034	21	—	—
318216 2004 RE_{190}	15.8	X	93.86024	66.99504	246.01136	5.72660	0.2477465	0.18554003	3.0444648	21	12 30.2	21.0
318217 2004 RP_{196}	14.9	X	22.54868	354.92200	14.92524	23.22071	0.1808419	0.17805406	3.1292106	21	12 5.5	19.3
318218 2004 RD_{203}	16.2	X	46.10467	62.69069	357.89758	10.04433	0.0945881	0.19312719	2.9641972	21	—	—
318219 2004 RA_{206}	15.1	X	58.59288	53.60627	307.98638	10.43153	0.1327801	0.18457018	3.0551206	21	—	—
318220 2004 RK_{207}	15.9	X	210.20298	57.70135	247.29906	12.96535	0.2182985	0.20569898	2.8421563	21	1 19.5	21.0
318221 2004 RO_{208}	15.7	X	50.79228	108.62488	236.25026	14.36618	0.2313917	0.18298076	3.0727868	21	12 24.5	20.2
318222 2004 RL_{212}	15.7	X	175.08855	22.62450	283.10459	16.71151	0.1113855	0.19741589	2.9211105	21	—	—
318223 2004 RU_{212}	15.1	X	354.52873	105.09659	256.93652	12.24416	0.3086647	0.17469605	3.1691831	21	10 17.5	18.0
318224 2004 RM_{214}	15.7	X	78.12337	62.48251	307.82231	13.28257	0.1378951	0.18971388	2.9996459	21	—	—
318225 2004 RT_{215}	15.3	X	357.46484	9.60071	345.95399	27.42998	0.1265727	0.17388076	3.1790818	21	9 26.9	19.4
318226 2004 RD_{218}	15.6	X	48.58291	39.36168	315.62733	15.57815	0.1208763	0.18106398	3.0944348	21	12 20.9	20.1
318227 2004 RE_{218}	15.6	X	356.23590	67.31853	316.93105	14.11737	0.2068054	0.17583840	3.1554422	21	11 12.2	19.3
318228 2004 RJ_{219}	15.3	X	79.06014	57.28558	297.54395	13.08555	0.0580172	0.18767281	3.0213554	21	—	—
318229 2004 RL_{219}	15.4	X	52.14445	102.32361	243.50780	10.46165	0.1117180	0.18203600	3.0834094	21	12 12.0	19.6
318230 2004 RO_{222}	15.4	X	53.65522	16.49117	325.49064	24.32903	0.2876982	0.18093769	3.0958745	21	—	
318231 2004 RF_{225}	15.4	X	313.41998	261.42357	174.06820	25.75486	0.2405784	0.17663122	3.1459929	21	10 29.6	19.0
318232 2004 RQ_{229}	16.1	X	36.23024	223.87788	208.46673	9.35141	0.0932676	0.18957084	3.0011545	21	—	—
318233 2004 RO_{233}	17.2	X	323.53304	245.93026	127.35757	1.15393	0.1208583	0.22865983	2.6485579	21	9 9.2	20.0
318234 2004 RB_{234}	16.2	X	86.52757	185.23939	143.49847	2.25726	0.1736164	0.18448054	3.0561102	21	—	—
318235 2004 RP_{237}	15.8	X	345.84483	132.45683	345.45838	10.83880	0.0625171	0.19279880	2.9675622	21	—	—
318236 2004 RN_{240}	18.2	X	148.04714	136.86116	185.88298	2.84009	0.1510237	0.31355289	2.1458310	21	—	—
318237 2004 RD_{243}	16.4	X	289.87240	155.96061	1.15038	9.23852	0.0728420	0.19105394	2.9856029	21	—	—
318238 2004 RM_{255}	16.2	X	327.45324	283.37010	55.07135	12.30511	0.2177779	0.22702049	2.6612930	21	7 16.2	18.9
318239 2004 RX_{268}	17.1	X	320.15606	345.68815	320.10424	1.82032	0.0830804	0.22178949	2.7029753	21	6 1.3	20.4
318240 2004 RG_{272}	17.0	X	270.76516	316.91075	166.81176	12.80016	0.0799943	0.24078638	2.5588693	21	11 25.6	20.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
318241 2004 RS_{272}	16.0	X	347.43343	92.06864	357.83130	9.29515	0.2477810	0.18602116	3.0392131	21	—	—
318242 2004 RW_{275}	16.5	X	105.53392	22.39487	332.19725	12.62409	0.1026737	0.19489599	2.9462354	21	—	—
318243 2004 RO_{283}	17.3	X	325.41414	8.35026	39.18994	0.84921	0.1661436	0.23540892	2.5976907	21	10 31.6	19.8
318244 2004 RR_{285}	16.7	X	226.95886	249.03470	40.20012	2.57038	0.0342968	0.20287653	2.8684559	21	1 22.9	20.8
318245 2004 RP_{292}	16.1	X	198.00519	324.87605	3.22436	6.09586	0.0678003	0.20465550	2.8518090	21	2 7.9	20.3
318246 2004 RJ_{298}	16.7	X	155.26817	153.86242	158.66133	2.19341	0.0325939	0.19430658	2.9521905	21	—	—
318247 2004 RB_{305}	17.0	X	343.35655	110.31015	327.07747	9.31472	0.0734633	0.18639367	3.0351625	21	12 28.9	21.0
318248 2004 RG_{308}	15.2	X	31.46354	201.91214	235.06310	10.74059	0.0773399	0.19166123	2.9792929	21	—	—
318249 2004 RK_{309}	15.6	X	295.98808	230.48470	210.46288	13.70910	0.1693898	0.17471682	3.1689319	21	10 10.0	19.6
318250 2004 RS_{311}	17.2	X	234.03512	315.66157	2.22692	3.61704	0.1872936	0.26717800	2.3874572	21	2 19.9	21.0
318251 2004 RQ_{315}	15.5	X	0.63191	345.09629	28.98006	18.27374	0.2042124	0.17860381	3.1227860	21	11 9.0	19.0
318252 2004 RZ_{322}	15.9	X	334.15634	86.24107	339.94793	11.30759	0.0530191	0.18046468	3.1012819	21	11 26.6	20.2
318253 2004 RV_{327}	15.7	X	20.33982	18.55162	2.51562	10.95196	0.1131837	0.18057163	3.1000572	21	12 12.2	19.9
318254 2004 RW_{328}	15.8	X	71.29195	336.05244	350.13735	10.33676	0.1846032	0.18222653	3.0812597	21	12 19.3	20.6
318255 2004 RM_{336}	16.1	X	294.30324	258.64501	208.93546	9.26502	0.1965068	0.17750050	3.1357131	21	11 9.2	19.9
318256 2004 RN_{338}	17.8	X	95.15808	302.28378	35.15125	2.31676	0.1662692	0.24611005	2.5218340	21	—	—
318257 2004 RQ_{341}	17.1	X	185.30025	182.46761	181.21274	7.75326	0.2295521	0.26389207	2.4072350	21	3 6.4	21.3
318258 2004 RW_{343}	15.3	X	79.55852	303.14931	22.55123	22.48803	0.0699187	0.18319104	3.0704349	21	12 9.8	20.2
318259 2004 RY_{345}	15.8	X	293.21318	112.83543	172.31137	11.85650	0.1189562	0.21358095	2.7717945	21	3 24.3	19.6
318260 2004 SE_{6}	16.3	X	285.99865	81.70223	185.00910	10.55921	0.1960164	0.21109045	2.7935535	21	2 8.8	20.7
318261 2004 SF_{10}	16.0	X	338.00148	279.43487	10.75236	12.75799	0.3061104	0.22647423	2.6655706	21	5 2.9	18.6
318262 2004 SP_{11}	15.3	X	160.88795	296.57130	52.88813	14.20626	0.2093374	0.20129501	2.8834608	21	2 9.6	20.3
318263 2004 SF_{14}	16.1	X	46.22211	198.34275	198.35583	14.74917	0.1125821	0.24437385	2.5337644	21	—	—
318264 2004 ST_{15}	15.4	X	69.76646	314.22730	44.41933	10.49261	0.0566950	0.18735522	3.0247688	21	—	—
318265 2004 SF_{20}	15.6	X	33.67753	10.69670	4.67999	11.22204	0.1446670	0.18218814	3.0816926	21	12 30.3	19.9
318266 2004 SH_{20}	16.6	X	296.66182	34.72479	299.66165	1.06908	0.2476414	0.22044400	2.7139626	21	5 10.8	20.2
318267 2004 SG_{30}	15.6	X	289.16618	77.18020	6.02901	8.34903	0.1803797	0.17344546	3.1843987	21	10 1.7	19.8
318268 2004 SA_{34}	16.7	X	13.73435	104.95539	283.38795	7.16614	0.1316838	0.18284338	3.0743258	21	12 15.9	20.5
318269 2004 ST_{42}	15.3	X	290.91745	240.21067	198.39696	8.57682	0.0989009	0.17560175	3.1582766	21	10 10.3	19.5
318270 2004 SW_{46}	15.7	X	167.32302	90.73130	195.67994	9.55089	0.0607139	0.19164292	2.9794827	21	—	—
318271 2004 SO_{53}	16.4	X	242.40715	183.78928	202.13868	2.68147	0.3054327	0.21771019	2.7366350	21	5 17.3	21.0
318272 2004 SW_{60}	15.5	X	128.15251	212.32755	120.62176	9.13844	0.1095470	0.19087623	2.9874558	21	—	—
318273 2004 TP_{2}	16.9	X	323.01922	21.79376	235.47990	3.72354	0.1045024	0.26977221	2.3721269	21	3 19.1	19.6
318274 2004 TR_{6}	16.2	X	332.06865	197.03518	113.32593	5.91307	0.2775219	0.22540867	2.6739645	21	6 1.4	18.7
318275 2004 TT_{14}	15.3	X	88.80487	40.57020	270.76400	21.27173	0.0352283	0.23821464	2.5772531	21	12 14.5	18.8
318276 2004 TH_{16}	15.6	X	287.35369	73.75775	18.90054	25.66833	0.2482369	0.17142991	3.2093098	21	10 4.5	19.7
318277 2004 TP_{16}	15.4	X	74.53913	70.25229	294.08019	6.18043	0.0512284	0.18506335	3.0496906	21	—	—
318278 2004 TH_{18}	15.6	X	42.56665	210.97092	163.45371	10.54161	0.1170739	0.18175236	3.0866165	21	—	—
318279 2004 TF_{31}	16.0	X	215.24699	213.69293	221.31232	8.31926	0.2464836	0.21743825	2.7389163	21	6 27.4	20.8
318280 2004 TA_{33}	16.0	X	59.21864	348.90133	10.54338	10.87864	0.0623418	0.18298374	3.0727534	21	12 31.1	20.6
318281 2004 TV_{33}	15.7	X	340.79245	0.58276	59.98343	3.94501	0.1981180	0.17752296	3.1354487	21	12 4.7	18.8
318282 2004 TM_{34}	15.6	X	120.76423	121.76110	207.62473	9.47886	0.0707477	0.18867907	3.0106035	21	—	—
318283 2004 TM_{35}	16.1	X	14.86020	68.79538	19.43617	10.32406	0.0252579	0.18936296	3.0033506	21	—	—
318284 2004 TX_{36}	16.5	X	52.95266	177.44217	170.89142	0.67614	0.1767911	0.18122458	3.0926064	21	12 24.7	20.8
318285 2004 TM_{37}	17.4	X	177.09022	344.79368	30.79976	1.91189	0.1831060	0.26397649	2.4067218	21	3 13.4	21.2
318286 2004 TS_{39}	16.6	X	288.22156	85.64551	208.71960	2.38413	0.0669445	0.21162700	2.7888297	21	4 5.4	20.5
318287 2004 TG_{43}	16.5	X	54.64228	103.64577	223.41792	6.71371	0.0602327	0.23544010	2.5974613	21	11 24.9	19.8
318288 2004 TC_{44}	15.9	X	321.39115	152.37520	239.25001	3.89144	0.1594876	0.16962893	3.2319857	21	9 17.5	19.7
318289 2004 TA_{45}	15.3	X	328.32741	190.59002	224.08467	7.90662	0.0537003	0.17499673	3.1655518	21	11 6.1	19.4
318290 2004 TW_{45}	16.3	X	225.79203	38.34860	221.08517	4.00198	0.0493190	0.25191683	2.4829307	21	—	—
318291 2004 TV_{55}	15.6	X	275.20147	254.20784	188.73869	4.45840	0.1277067	0.16826647	3.2494086	21	9 19.1	20.1
318292 2004 TE_{56}	17.2	X	63.36873	304.34522	63.60164	2.76993	0.1295907	0.24242695	2.5473118	21	—	—
318293 2004 TR_{63}	16.9	X	9.51423	33.77123	22.07815	6.31154	0.1187904	0.24146565	2.5540682	21	—	—
318294 2004 TV_{63}	16.0	X	346.52682	335.23147	194.21340	5.54492	0.0720016	0.19754291	2.9198581	21	1 15.1	20.0
318295 2004 TQ_{68}	15.5	X	166.55684	257.32922	81.39603	5.85566	0.1016916	0.19839559	2.9114860	21	1 21.1	19.9
318296 2004 TE_{70}	16.0	X	175.40529	261.43746	83.15049	4.26364	0.2368204	0.20051163	2.8909661	21	2 13.4	21.0
318297 2004 TK_{71}	15.7	X	279.51599	81.46163	6.63831	12.09717	0.0197396	0.17439837	3.1727884	21	10 15.1	20.1
318298 2004 TF_{72}	15.7	X	356.43558	249.80292	193.85961	9.27209	0.0901875	0.18552787	3.0445979	21	—	—
318299 2004 TD_{76}	16.2	X	271.47200	230.67777	198.83813	9.67403	0.1947308	0.16601322	3.2787447	21	8 16.3	21.0
318300 2004 TW_{82}	18.0	X	86.01079	54.17473	344.49260	2.01038	0.1181387	0.31143433	2.1555515	21	—	—
318301 2004 TG_{84}	16.3	X	275.12152	145.55226	10.80027	9.88669	0.0517591	0.18560984	3.0437014	21	—	—
318302 2004 TA_{87}	16.9	X	174.24593	350.73091	74.80294	0.61013	0.0558897	0.21291733	2.7775510	21	5 10.6	20.9
318303 2004 TP_{87}	16.6	X	254.83065	359.86581	188.11454	9.92547	0.0358480	0.18779513	3.0200433	21	—	—
318304 2004 TU_{87}	16.3	X	286.04326	295.67618	168.13900	3.41705	0.2567604	0.17614051	3.1518332	21	10 13.1	20.1
318305 2004 TR_{90}	15.6	X	18.97032	33.96776	11.17741	10.51371	0.1250576	0.18224823	3.0810151	21	—	—
318306 2004 TO_{99}	16.3	X	27.73101	203.35358	150.04223	2.70165	0.0936031	0.17687340	3.1431205	21	11 17.2	20.4
318307 2004 TF_{109}	15.8	X	216.41682	270.63960	86.64902	7.12560	0.2290080	0.20994329	2.8037205	21	3 31.8	20.7
318308 2004 TV_{111}	15.5	X	327.79797	245.58530	203.75597	11.04975	0.0601359	0.18097326	3.0954688	21	12 18.9	19.7
318309 2004 TN_{117}	18.0	X	36.03426	39.42935	2.68959	4.50083	0.1730618	0.30417252	2.1897241	21	—	—
318310 2004 TQ_{129}	15.9	X	240.91324	316.23934	356.66392	11.64162	0.1120443	0.20886091	2.8133986	21	3 3.7	20.2
318311 2004 TA_{130}	15.7	X	313.11464	22.48004	26.44001	9.84455	0.0689110	0.17424388	3.1746635	21	10 8.8	19.8
318312 2004 TU_{131}	17.4	X	42.00269	230.46819	141.08469	3.30156	0.1560897	0.29898588	2.2149755	21	—	—
318313 2004 TH_{132}	15.4	X	59.69248	187.27068	194.30523	9.37942	0.1475443	0.18523322	3.0478257	21	—	—
318314 2004 TM_{136}	15.8	X	330.79933	66.89035	351.55763	10.04376	0.0878217	0.17720591	3.1391875	21	11 10.3	20.0
318315 2004 TJ_{143}	16.0	X	190.37183	225.29960	21.12522	9.22588	0.0927883	0.18524240	3.0477250	21	—	—
318316 2004 TP_{145}	17.3	X	29.87961	18.85628	342.42651	1.33170	0.1559833	0.23897734	2.5717667	21	12 21.3	20.6
318317 2004 TN_{148}	17.6	X	301.54164	299.21879	328.19571	1.83399	0.2500088	0.27114014	2.3641417	21	2 12.8	21.1
318318 2004 TR_{148}	15.5	X	349.97508	112.66100	9.23620	12.95802	0.1229192	0.18951933	3.0016983	21	—	—
318319 2004 TS_{149}	16.2	X	141.09015	43.67251	274.09276	1.94015	0.1754851	0.19181320	2.9777191	21	—	—
318320 2004 TT_{157}	17.7	X	90.31609	120.74007	234.45979	3.69640	0.1707873	0.30508892	2.1853370	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
318321 2004 TE_{164}	17.7	X	95.20455	23.77069	77.91725	2.34240	0.1303966	0.26029797	2.4293431	21	3 27.3	20.4
318322 2004 TX_{169}	15.3	X	96.03313	210.84761	161.86263	9.61338	0.0474790	0.19064245	2.9898976	21	—	—
318323 2004 TE_{175}	17.7	X	90.77188	342.43079	33.79044	4.85336	0.1612379	0.30837438	2.1697874	21	—	—
318324 2004 TW_{177}	16.2	X	16.38796	153.95348	330.32486	1.37693	0.0292243	0.19768715	2.9184376	21	1 4.1	20.2
318325 2004 TN_{187}	17.3	X	22.62047	321.53580	339.99164	1.30263	0.0579289	0.22759986	2.6567747	21	9 5.1	20.4
318326 2004 TQ_{189}	17.2	X	129.72629	177.13650	174.84029	1.24816	0.1035670	0.25341983	2.4731037	21	—	—
318327 2004 TY_{190}	16.3	X	347.95585	251.36746	184.48108	4.25905	0.1085300	0.18309270	3.0715342	21	—	—
318328 2004 TV_{195}	15.7	X	67.26049	104.79853	220.09636	8.47024	0.0893054	0.17862311	3.1225612	21	12 1.6	20.2
318329 2004 TE_{198}	15.6	X	155.03003	48.32365	203.15808	10.49202	0.0929674	0.18107943	3.0942588	21	12 6.7	20.5
318330 2004 TR_{198}	17.0	X	316.65252	213.06238	185.39382	1.72526	0.1462319	0.22980419	2.6397579	21	9 30.6	19.8
318331 2004 TN_{200}	15.5	X	29.01088	301.53886	41.14846	9.77026	0.0896935	0.17514034	3.1638211	21	11 4.0	19.5
318332 2004 TE_{203}	15.5	X	41.43567	303.56262	21.54912	4.77384	0.1723488	0.17297844	3.1901277	21	11 9.6	19.8
318333 2004 TT_{204}	16.3	X	114.18485	315.34615	23.63137	0.88911	0.1318921	0.24586444	2.5235131	21	—	—
318334 2004 TN_{205}	15.9	X	44.63167	305.03705	46.05069	2.79955	0.1290265	0.17653305	3.1471591	21	12 10.3	20.3
318335 2004 TY_{205}	15.9	X	297.25781	30.52815	48.49939	6.79376	0.0498265	0.17176425	3.2051438	21	10 25.9	20.1
318336 2004 TD_{214}	15.5	X	342.38635	176.60101	240.49291	3.75740	0.1373314	0.17766244	3.1338074	21	12 1.3	19.2
318337 2004 TT_{214}	15.6	X	23.62404	168.40740	226.50421	7.52837	0.1733473	0.18059505	3.0997892	21	—	—
318338 2004 TY_{215}	16.0	X	138.00379	105.75573	192.91526	9.53637	0.0988899	0.18782729	3.0196985	21	—	—
318339 2004 TS_{219}	15.4	X	174.45820	237.26896	27.14905	11.37250	0.1783349	0.18853702	3.0121155	21	—	—
318340 2004 TW_{222}	15.5	X	8.13981	79.71994	341.01515	11.30952	0.0498942	0.18328304	3.0694074	21	—	—
318341 2004 TQ_{231}	16.9	X	228.22784	88.58451	284.34341	2.95310	0.0904969	0.21165907	2.7885480	21	5 1.8	21.1
318342 2004 TG_{249}	16.1	X	338.24718	250.76006	177.63934	0.26843	0.1676876	0.17849007	3.1241126	21	12 9.7	19.6
318343 2004 TY_{262}	16.6	X	215.96675	156.79602	253.37598	3.38275	0.0701918	0.21468212	2.7623082	21	6 7.3	20.5
318344 2004 TO_{264}	15.6	X	142.93682	205.65273	28.27481	9.26535	0.0502798	0.17443563	3.1723365	21	10 31.9	20.4
318345 2004 TT_{265}	15.2	X	341.88073	30.25243	33.54785	14.31893	0.0246331	0.17871327	3.1215109	21	12 3.3	19.6
318346 2004 TH_{267}	15.1	X	237.01715	155.83646	34.28749	17.60351	0.1037010	0.18124656	3.0923564	21	12 14.9	19.8
318347 2004 TX_{285}	16.1	X	16.06058	278.42015	101.90875	2.45048	0.1800384	0.17809908	3.1286833	21	12 14.6	19.8
318348 2004 TX_{289}	15.4	X	5.36402	359.73225	345.67073	10.14928	0.1182527	0.17134672	3.2103485	21	10 2.7	19.5
318349 2004 TN_{294}	15.6	X	28.04080	300.64093	52.44060	9.49761	0.0914856	0.17527065	3.1622527	21	11 15.8	19.7
318350 2004 TL_{309}	16.0	X	97.88735	64.90417	278.04587	4.68499	0.1131840	0.18743741	3.0238845	21	—	—
318351 2004 TJ_{317}	15.2	X	334.28122	166.46177	221.51103	14.36533	0.0952896	0.17197516	3.2025228	21	10 8.1	19.3
318352 2004 TJ_{318}	16.4	X	4.69239	64.65754	233.71829	3.77111	0.0798144	0.22278928	2.6948826	21	8 2.8	19.7
318353 2004 TW_{318}	16.1	X	18.05688	30.51283	211.38544	8.45806	0.1415375	0.21600799	2.7509931	21	6 9.9	19.1
318354 2004 TN_{322}	18.0	X	323.71245	74.42040	34.62820	8.36556	0.0283712	0.29873489	2.2162160	21	—	—
318355 2004 TH_{327}	16.0	X	355.75314	132.27185	287.67811	14.81626	0.0809122	0.18280765	3.0747264	21	12 24.4	19.9
318356 2004 TA_{331}	15.3	X	88.69563	108.03380	224.09615	7.14899	0.1143237	0.18292256	3.0734386	21	—	—
318357 2004 TY_{337}	16.5	X	64.00831	138.46528	208.89903	2.49902	0.0655268	0.18193008	3.0846061	21	12 21.6	21.0
318358 2004 TW_{344}	15.0	X	293.23836	73.25705	47.12495	14.77762	0.1298672	0.17616463	3.1515454	21	11 29.3	19.1
318359 2004 TP_{349}	15.8	X	85.37070	344.14717	25.74461	9.06083	0.1210692	0.19097317	2.9864447	21	—	—
318360 2004 TL_{354}	17.9	X	330.90645	243.78397	210.94959	5.13218	0.1167952	0.29647239	2.2274769	21	—	—
318361 2004 TZ_{355}	15.9	X	241.68100	304.14423	81.38627	10.44564	0.0824402	0.21683687	2.7439780	21	6 4.3	19.9
318362 2004 TO_{357}	16.0	X	236.28404	146.26339	25.25214	9.81620	0.0275498	0.17811925	3.1284470	21	12 2.2	20.5
318363 2004 UC_{1}	15.9	X	36.66324	29.21195	296.07839	4.26416	0.1853827	0.17461755	3.1701328	21	11 4.7	20.0
318364 2004 UK_{6}	16.0	X	240.49405	290.34808	57.50979	10.06901	0.2095069	0.21021563	2.8012984	21	4 9.9	20.7
318365 2004 VQ_{7}	15.8	X	58.56436	141.35179	206.84536	9.15819	0.1048338	0.17859760	3.1228585	21	12 20.6	20.4
318366 2004 VF_{8}	17.2	X	118.45612	319.16490	107.18396	2.71423	0.1762573	0.25854247	2.4403276	21	3 18.2	20.3
318367 2004 VG_{19}	17.1	X	201.05280	315.34834	65.42016	3.14634	0.1743685	0.26659623	2.3909292	21	4 10.4	20.9
318368 2004 VK_{35}	15.7	X	179.01295	208.19717	74.60366	6.88922	0.1600245	0.18857517	3.0117093	21	—	—
318369 2004 VR_{39}	15.6	X	341.01613	223.66443	212.99056	4.28250	0.0205210	0.17847985	3.1242319	21	12 20.1	20.0
318370 2004 VT_{50}	15.2	X	118.43484	190.83192	69.31870	17.09158	0.0875231	0.17255641	3.1953271	21	11 12.0	20.1
318371 2004 VH_{51}	18.3	X	32.45054	314.28587	129.31720	2.99367	0.1115407	0.30545697	2.1835813	21	—	—
318372 2004 VQ_{53}	16.3	X	265.10847	167.91160	234.95634	6.64643	0.1799059	0.22022024	2.7158007	21	7 10.8	20.3
318373 2004 VH_{60}	16.5	X	354.76545	331.34229	29.57814	5.30420	0.1972068	0.22936219	2.6431481	21	10 24.9	18.7
318374 2004 VN_{63}	16.6	X	10.48965	248.27501	145.04023	2.99814	0.1315921	0.23635067	2.5907857	21	12 31.0	19.7
318375 2004 VL_{71}	15.3	X	22.30093	94.57392	243.39581	8.14932	0.1045674	0.17011519	3.2258238	21	10 18.7	19.5
318376 2004 VC_{74}	15.7	X	356.25653	277.75051	94.18513	6.55947	0.1833621	0.17193209	3.2030577	21	10 31.9	19.3
318377 2004 VH_{74}	15.2	X	31.39126	129.00398	211.92512	10.61164	0.1137997	0.17272578	3.1932379	21	11 8.5	19.4
318378 2004 VF_{85}	15.9	X	268.94159	238.52698	236.58056	4.00432	0.0771507	0.17046629	3.2213930	21	10 28.1	20.3
318379 2004 VV_{98}	17.4	X	76.00538	109.38818	234.74286	0.39519	0.0767373	0.24104290	2.5570536	21	—	—
318380 2004 VY_{109}	15.8	X	138.09050	252.70002	40.68740	5.72666	0.1639620	0.18475448	3.0530885	21	—	—
318381 2004 WB_{7}	15.6	X	311.98266	82.01234	26.70315	10.65137	0.0795207	0.17824757	3.1269455	21	12 18.6	19.8
318382 2004 WG_{8}	17.3	X	100.12151	50.53443	89.77930	2.39278	0.1240191	0.26510514	2.3998860	21	5 25.2	20.4
318383 2004 WB_{11}	17.8	X	46.58100	11.73835	23.62868	4.41859	0.1950960	0.30048055	2.2076241	21	—	—
318384 2004 XX_{7}	15.8	X	72.44214	300.24034	88.64081	15.28249	0.0767433	0.24271599	2.5452891	21	—	—
318385 2004 XA_{10}	15.6	X	189.04502	207.93711	293.12248	23.91176	0.2240508	0.27334012	2.3514394	21	8 19.8	19.9
318386 2004 XF_{22}	16.8	X	95.43766	332.80985	98.36506	3.69586	0.2237389	0.25258397	2.4785567	21	3 2.5	19.6
318387 2004 XK_{28}	17.7	X	316.69036	37.36830	65.83498	4.91806	0.2150681	0.29123646	2.2540950	21	—	—
318388 2004 XE_{30}	16.9	X	75.51576	151.21892	206.28950	0.93245	0.2469241	0.24318213	2.5420355	21	—	—
318389 2004 XM_{36}	15.4	X	248.18512	301.60273	250.75345	8.60989	0.0545677	0.17814460	3.1281503	21	—	—
318390 2004 XU_{43}	17.9	X	130.61890	274.16416	71.55690	4.55921	0.1730319	0.30672579	2.1775552	21	—	—
318391 2004 XH_{49}	16.6	X	34.61441	311.69605	66.96810	5.82334	0.1155216	0.23294515	2.6159751	21	—	—
318392 2004 XR_{61}	15.0	X	32.94950	63.38511	289.18611	17.08194	0.1924887	0.17327633	3.1864704	21	12 5.4	19.3
318393 2004 XU_{61}	16.7	X	327.83397	11.66044	35.77005	2.96653	0.0463478	0.22808959	2.6529704	21	11 5.4	19.9
318394 2004 XM_{65}	15.3	X	51.54764	151.63960	255.33354	8.94521	0.0821303	0.18437431	3.0572840	21	—	—
318395 2004 XQ_{66}	14.9	X	185.83752	70.46776	85.57003	22.69564	0.1591264	0.15865412	3.3793653	21	9 22.6	20.8
318396 2004 XQ_{77}	17.9	X	344.25910	27.48081	79.20958	3.67211	0.1982991	0.29847498	2.2175024	21	—	—
318397 2004 XP_{82}	17.0	X	353.38462	33.33985	20.91040	1.91244	0.1778826	0.23401376	2.6080052	21	—	—
318398 2004 XT_{92}	16.5	X	91.83394	29.36490	331.34850	4.67943	0.2647842	0.24539858	2.5267059	21	—	—
318399 2004 XY_{97}	16.9	X	297.31949	168.58998	323.85201	2.57284	0.0602637	0.23222067	2.6214131	21	—	—
318400 2004 XY_{109}	17.3	X	359.12245	121.21814	308.34214	7.80466	0.2081937	0.29426275	2.2386139	21	—	—

ELEMENTS AND OPPOSITION DATES IN 2021

ECLIPTIC AND EQUINOX 2000.0, EPOCH 2021 JULY 5.0 TT

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
318401 2004 XT_{135}	17.8	X	308.46359	90.85993	16.70526	4.65986	0.1805168	0.29152730	2.2525956	21	—	—
318402 2004 XJ_{163}	17.6	X	329.48513	24.37958	52.70600	3.66772	0.1429482	0.29021881	2.2593612	21	—	—
318403 2004 XZ_{166}	15.7	X	119.33757	124.35610	85.69507	22.80092	0.2672575	0.26595943	2.3947441	21	10 13.4	20.4
318404 2004 XO_{183}	15.0	X	181.41566	194.20681	109.69941	17.14082	0.1396364	0.18334659	3.0686980	21	—	—
318405 2004 XF_{185}	13.1	X	278.44728	233.45613	89.20639	14.42760	0.0611360	0.08263224	5.2203912	21	5 13.9	20.1
318406 2004 YS_{19}	18.4	X	307.94491	139.81086	268.96294	0.92063	0.1979636	0.28225356	2.3016702	21	10 1.5	20.2
318407 2004 YF_{22}	13.7	X	356.54188	150.32661	122.88177	6.64031	0.0801420	0.08183976	5.2540371	21	6 19.2	20.2
318408 2005 AO_{2}	16.9	X	343.98512	138.73265	311.22749	6.95699	0.1159103	0.29258114	2.2471833	21	—	—
318409 2005 AM_{7}	17.5	X	255.32069	195.11510	330.53165	6.29628	0.1572557	0.28756090	2.2732620	21	12 27.3	19.9
318410 2005 AF_{12}	16.9	X	85.95566	73.33779	318.20681	7.59260	0.1145954	0.30082132	2.2059566	21	—	—
318411 2005 AH_{14}	17.1	X	221.20844	192.45781	59.34681	12.82722	0.6081069	0.27975867	2.3153341	21	—	—
318412 Tramelan	16.0	X	19.92872	281.06608	121.95889	15.59645	0.0796940	0.23025924	2.6362788	21	—	—
318413 2005 AK_{29}	17.6	X	288.26434	161.14423	325.23240	2.81226	0.1242243	0.28761426	2.2729808	21	—	—
318414 2005 AD_{41}	16.4	X	153.07106	240.08410	165.64520	1.79797	0.2160357	0.19770150	2.9182965	21	4 5.6	21.3
318415 2005 AO_{42}	17.4	X	344.07347	84.16970	4.48801	6.66431	0.1869808	0.29393454	2.2402800	21	—	—
318416 2005 AC_{48}	17.6	X	272.26506	332.57515	126.79521	4.08681	0.1163830	0.28219587	2.3019839	21	10 26.8	20.0
318417 2005 AB_{63}	15.5	X	274.18514	148.34188	135.18800	9.78269	0.1941398	0.19190807	2.9767377	21	2 23.4	20.2
318418 2005 AU_{67}	15.7	X	255.83419	326.06478	141.13336	9.74781	0.1290959	0.16250578	3.3257544	21	9 27.7	20.5
318419 2005 AB_{75}	16.7	X	168.24755	118.07383	121.67071	3.89224	0.0365970	0.22632709	2.6667257	21	12 15.5	20.4
318420 2005 BM_{10}	18.1	X	234.05580	265.28011	244.26607	1.15217	0.1790376	0.28169421	2.3047161	21	10 30.1	21.1
318421 2005 BE_{12}	16.3	X	113.33389	114.31458	91.94449	4.75221	0.0406661	0.21251295	2.7810734	21	8 30.3	20.2
318422 2005 BG_{17}	17.3	X	301.70549	219.41364	265.03189	0.91878	0.1559193	0.23029157	2.6360321	21	—	—
318423 2005 BS_{17}	16.9	X	231.82017	320.97704	126.54657	3.27462	0.0693997	0.21254354	2.7808066	21	8 14.5	20.7
318424 2005 BD_{20}	17.0	X	340.48670	331.90993	95.14425	3.81871	0.1523610	0.28856823	2.2679686	21	—	—
318425 2005 BZ_{22}	16.6	X	265.17287	29.97733	77.41237	2.50431	0.0809318	0.22045560	2.7138674	21	10 21.8	20.2
318426 2005 BZ_{23}	17.7	X	281.82903	104.48229	72.12312	2.79257	0.0902351	0.29494829	2.2351438	21	—	—
318427 2005 BA_{29}	17.4	X	272.07945	130.59445	24.76126	5.26104	0.1638916	0.28846916	2.2684878	21	—	—
318428 2005 BY_{44}	17.3	X	46.17706	282.80616	154.03224	1.72677	0.0456870	0.24017705	2.5631954	21	—	—
318429 2005 CG_{2}	17.5	X	221.43219	85.11794	120.51041	5.43499	0.1633351	0.28518229	2.2858849	21	12 31.4	20.5
318430 2005 CL_{3}	16.5	X	109.31137	252.35047	90.62493	4.81893	0.0340690	0.23128427	2.6284839	21	—	—
318431 2005 CS_{4}	14.9	X	14.52885	265.49650	140.45522	19.43929	0.1217632	0.16856492	3.2455720	21	—	—
318432 2005 CP_{6}	16.9	X	169.32424	268.07767	137.17945	25.41324	0.0746893	0.37348652	1.9096455	21	3 30.3	19.5
318433 2005 CA_{12}	16.4	X	62.68067	310.29585	109.83501	6.85582	0.2334651	0.24140715	2.5544807	21	—	—
318434 2005 CR_{13}	16.2	X	82.80643	182.74687	83.70078	5.84194	0.1152536	0.21284819	2.7781525	21	10 19.7	20.2
318435 2005 CD_{16}	18.2	X	255.07670	215.41533	300.22083	2.10574	0.1489615	0.28560930	2.2836059	21	12 12.7	20.4
318436 2005 CU_{22}	16.8	X	311.78360	70.69434	37.83447	4.20939	0.2030623	0.28906665	2.2653608	21	—	—
318437 2005 CY_{32}	17.3	X	196.52937	315.87940	338.23812	6.95978	0.1490688	0.29786407	2.2205334	21	—	—
318438 2005 CD_{38}	17.0	X	307.04874	165.24363	145.17931	23.93217	0.0841583	0.37844843	1.8929170	21	5 15.7	19.5
318439 2005 CL_{44}	16.6	X	318.89713	53.10304	136.10450	7.60421	0.0817788	0.23935698	2.5690466	21	—	—
318440 2005 CS_{45}	17.2	X	191.99958	17.36927	148.21693	11.84654	0.1590917	0.27557119	2.3387305	21	10 11.1	20.9
318441 2005 CY_{45}	17.1	X	230.04544	91.97274	338.66093	4.44088	0.1119540	0.26765208	2.3846371	21	7 18.0	20.4
318442 2005 CL_{46}	17.5	X	9.11036	162.76725	340.58092	1.95777	0.0955410	0.24118952	2.5560171	21	1 1.6	20.4
318443 2005 CO_{52}	16.3	X	64.31468	25.73464	34.82438	4.69361	0.1942034	0.24123114	2.5557231	21	—	—
318444 2005 CT_{52}	17.4	X	304.61376	29.20537	46.85428	3.60777	0.1919373	0.28307733	2.2972027	21	11 10.2	19.0
318445 2005 CF_{60}	17.3	X	289.06361	128.06574	5.79321	5.54767	0.1366049	0.28741787	2.2740161	21	—	—
318446 2005 CY_{60}	17.4	X	65.34596	44.50972	350.54873	5.00090	0.1561110	0.29706486	2.2245142	21	—	—
318447 2005 CX_{71}	16.1	X	18.57064	246.49834	125.00547	9.14381	0.0491120	0.22173919	2.7033840	21	12 1.7	19.8
318448 2005 CN_{73}	17.1	X	73.60466	22.53907	39.91609	1.35586	0.2083774	0.24279130	2.5447628	21	1 9.1	19.3
318449 2005 CR_{79}	16.5	X	7.63094	259.69273	154.90217	9.61435	0.1546654	0.22856278	2.6493075	21	—	—
318450 2005 EJ	19.9	X	173.59288	92.13686	33.49649	12.45623	0.1540955	0.56732149	1.4451621	21	8 16.2	21.2
318451 2005 ET_{1}	16.2	X	216.03349	258.32571	346.73754	24.54933	0.1272106	0.28946934	2.2632594	21	—	—
318452 2005 EA_{3}	17.9	X	234.04546	214.95781	328.15860	5.21073	0.0985315	0.28632330	2.2798079	21	12 28.7	20.6
318453 2005 ET_{4}	17.1	X	143.03515	70.59548	147.01234	5.42371	0.1120352	0.27217658	2.3581362	21	10 28.3	20.6
318454 2005 EP_{7}	17.3	X	189.33522	308.93622	169.64906	5.38396	0.1782228	0.26582622	2.3955441	21	8 2.1	21.2
318455 2005 EW_{8}	16.1	X	298.81753	344.25426	345.05489	1.34489	0.0394231	0.20269062	2.8702096	21	6 9.6	19.9
318456 2005 EV_{10}	17.7	X	222.22347	226.26292	297.33533	1.95772	0.1685368	0.27842407	2.3227272	21	11 4.2	20.8
318457 2005 EH_{12}	17.3	X	242.05829	130.77835	2.32419	6.05193	0.2181251	0.27914905	2.3187038	21	10 10.9	20.5
318458 2005 EF_{16}	17.6	X	112.52155	229.37968	22.76960	1.42842	0.1494188	0.27223762	2.3577837	21	11 9.7	21.2
318459 2005 EC_{20}	17.1	X	174.06994	87.58613	151.57555	3.03674	0.1308597	0.28134014	2.3066494	21	12 24.7	20.4
318460 2005 EF_{20}	16.9	X	164.52509	289.98957	344.54895	7.30489	0.1156306	0.28583885	2.2823831	21	—	—
318461 2005 ET_{21}	17.4	X	166.92194	99.97950	157.55652	5.42704	0.1409896	0.28268419	2.2993321	21	—	—
318462 2005 EN_{24}	16.9	X	240.08412	70.12966	126.07694	5.54520	0.0952861	0.28578196	2.2826860	21	—	—
318463 2005 EB_{26}	17.7	X	171.34826	182.41882	2.15751	1.85899	0.1294918	0.27257288	2.3558499	21	10 12.1	21.3
318464 2005 EH_{29}	17.4	X	212.56412	46.88169	177.53778	6.59824	0.0750780	0.28607012	2.2811529	21	—	—
318465 2005 EK_{33}	17.0	X	210.21145	239.20762	15.21680	5.78469	0.2295950	0.28820731	2.2698617	21	—	—
318466 2005 EU_{40}	17.2	X	62.32523	95.07307	148.37826	4.60835	0.2002679	0.26051230	2.4280105	21	9 9.4	20.2
318467 2005 ES_{41}	17.3	X	215.76188	146.39240	14.22611	3.68473	0.1529500	0.27563023	2.3383965	21	10 25.7	20.5
318468 2005 EZ_{48}	16.6	X	320.04788	275.32858	186.65567	4.29992	0.1432663	0.22699759	2.6614719	21	—	—
318469 2005 EK_{50}	17.6	X	271.76996	254.03362	290.65325	4.68267	0.0913697	0.28966793	2.2622249	21	—	—
318470 2005 EX_{50}	17.9	X	253.55358	242.33258	256.08290	1.67656	0.1533143	0.28057340	2.3108498	21	11 13.9	20.3
318471 2005 EU_{52}	17.4	X	117.40090	81.22965	168.18418	2.38697	0.1498973	0.27262861	2.3555289	21	11 12.0	20.9
318472 2005 EA_{55}	17.6	X	190.27808	269.52127	181.56170	3.56412	0.0641400	0.26173089	2.4204683	21	6 30.9	21.0
318473 2005 EJ_{58}	17.8	X	255.51291	261.62708	222.19267	1.76440	0.1680581	0.27857491	2.3218886	21	10 24.5	20.3
318474 2005 EB_{64}	17.2	X	31.45627	196.45112	161.98107	5.50150	0.0937035	0.21979890	2.7192703	21	12 7.0	20.7
318475 2005 EZ_{67}	17.2	X	265.53226	169.85749	353.32794	7.13812	0.0454537	0.28614188	2.2807714	21	—	—
318476 2005 ED_{70}	17.4	X	56.59820	327.97619	178.48908	23.55541	0.0556816	0.36828343	1.9275897	21	2 21.8	19.2
318477 2005 EZ_{72}	16.7	X	166.81555	211.87646	44.75822	4.80842	0.2025836	0.28174051	2.3044636	21	—	—
318478 2005 EE_{74}	17.3	X	257.86076	307.92587	149.82360	6.16025	0.0812494	0.27445657	2.3450582	21	10 7.2	20.1
318479 2005 EF_{75}	15.3	X	348.00682	234.97903	355.30474	3.64578	0.1448202	0.12569482	3.9469152	21	4 8.9	20.1
318480 2005 EB_{87}	17.8	X	180.64034	120.11618	6.95447	1.38470	0.1282641	0.26534581	2.3984347	21	8 7.4	21.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
318481 2005 EC_{89}	17.3	X	149.51822	16.11934	254.70711	2.47544	0.1519378	0.28044470	2.3115567	21	—	—
318482 2005 EF_{89}	17.8	X	299.68749	132.96365	328.89354	5.12813	0.1133964	0.28219452	2.3019912	21	12 16.2	19.9
318483 2005 ES_{94}	16.9	X	270.86255	242.26341	321.45415	6.02004	0.1892288	0.23235791	2.6203808	21	—	—
318484 2005 EA_{98}	16.7	X	207.69786	277.79223	293.64277	4.84921	0.1141841	0.28324323	2.2963056	21	12 28.9	19.7
318485 2005 EF_{99}	17.9	X	171.63087	222.95426	277.00147	2.88929	0.1839342	0.26700406	2.3884939	21	8 13.6	21.9
318486 2005 ED_{104}	17.2	X	84.18538	262.42093	25.43517	1.43920	0.1825867	0.27208552	2.3586623	21	11 29.4	20.8
318487 2005 EX_{110}	17.5	X	147.76400	308.38906	268.07177	1.45812	0.1629278	0.27289963	2.3539691	21	10 29.2	21.2
318488 2005 ER_{114}	16.9	X	284.87468	3.12763	50.96826	0.92859	0.0615892	0.20988660	2.8042253	21	9 9.7	20.6
318489 2005 EK_{117}	17.2	X	313.74270	100.15825	170.52469	5.96807	0.1073369	0.24688114	2.5165802	21	3 29.9	20.2
318490 2005 EF_{119}	17.3	X	246.87039	283.18969	211.23447	6.43476	0.1968907	0.27837498	2.3230002	21	10 22.8	20.3
318491 2005 EF_{120}	17.4	X	262.81136	207.54900	211.20803	4.68193	0.1690289	0.26984680	2.3716897	21	7 31.9	20.6
318492 2005 EW_{120}	17.2	X	100.74368	348.02096	220.49198	6.25258	0.1616732	0.26331448	2.4107540	21	8 30.8	20.8
318493 2005 EA_{121}	17.2	X	233.74718	240.74577	295.75267	5.98418	0.1177082	0.28332806	2.2958472	21	12 14.9	19.9
318494 2005 EW_{128}	17.6	X	105.37888	163.01886	278.41134	1.51540	0.1273176	0.24651855	2.5190472	21	3 13.4	20.8
318495 2005 EJ_{136}	17.7	X	273.63491	266.11479	212.52802	5.88021	0.1671417	0.28071240	2.3100869	21	11 16.5	19.9
318496 2005 EK_{136}	16.8	X	150.95198	74.56883	177.74871	22.30113	0.2265286	0.27579184	2.3374829	21	12 15.6	21.2
318497 2005 EP_{137}	16.5	X	299.97258	82.21632	131.32100	9.40233	0.1271133	0.23701035	2.5859761	21	—	—
318498 2005 EZ_{138}	17.5	X	185.52389	80.76160	147.91933	1.76781	0.1667089	0.27752844	2.3277217	21	12 19.5	21.0
318499 2005 EL_{145}	17.8	X	231.33746	70.03826	11.64109	6.12737	0.2050919	0.26792394	2.3830237	21	7 26.2	21.5
318500 2005 EW_{145}	18.1	X	189.10208	191.84953	14.40654	4.87633	0.1688876	0.27702203	2.3305576	21	11 23.5	21.5
318501 2005 EX_{147}	17.7	X	135.21884	144.19707	111.85956	2.16624	0.1567217	0.27384160	2.3485678	21	12 6.7	21.3
318502 2005 ED_{149}	17.6	X	178.79978	127.01754	105.44578	2.90432	0.1785238	0.27744638	2.3281807	21	12 16.8	21.1
318503 2005 ET_{149}	17.3	X	119.71638	202.64023	96.11570	4.20597	0.1591838	0.27741772	2.3283410	21	—	—
318504 2005 EV_{150}	15.8	X	7.05972	183.50657	75.14811	4.00241	0.0718408	0.19263795	2.9692139	21	6 12.9	19.5
318505 2005 EB_{155}	17.6	X	157.23741	67.84280	182.75898	7.72190	0.1827000	0.27601931	2.3361985	21	12 19.3	21.5
318506 2005 ER_{155}	16.9	X	186.97208	46.47417	34.76670	1.76893	0.1655708	0.25825809	2.4421187	21	6 13.2	20.8
318507 2005 EL_{156}	17.1	X	207.75625	119.11403	56.75569	7.76215	0.1484061	0.27927033	2.3180325	21	11 8.1	20.3
318508 2005 EC_{161}	18.0	X	127.92312	75.17867	156.58674	1.59373	0.1494731	0.26881049	2.3777813	21	10 30.3	21.7
318509 2005 ES_{161}	17.5	X	184.20567	93.97085	170.09838	6.68572	0.1628787	0.28228371	2.3015063	21	—	—
318510 2005 EA_{167}	17.8	X	261.70824	164.29421	335.89778	1.95283	0.1468022	0.28132516	2.3067313	21	11 30.1	20.3
318511 2005 EW_{170}	16.9	X	233.34233	283.71262	221.85556	10.64810	0.1279304	0.27823739	2.3237660	21	10 30.6	19.9
318512 2005 EN_{173}	17.3	X	125.61057	227.49187	300.90922	2.38638	0.0988718	0.26203046	2.4186231	21	7 31.9	20.7
318513 2005 EV_{176}	17.4	X	170.98185	239.12072	6.80853	6.48483	0.0804615	0.27862734	2.3215974	21	—	—
318514 2005 EA_{180}	17.9	X	267.90084	161.50094	275.13424	2.29171	0.2147662	0.27443564	2.3451774	21	8 26.9	20.7
318515 2005 EZ_{182}	16.9	X	42.64038	331.37391	352.23901	4.09971	0.1859917	0.27050670	2.3678310	21	11 28.9	19.9
318516 2005 EB_{187}	17.8	X	90.90179	273.55960	357.95494	2.38256	0.1710537	0.26759421	2.3849809	21	11 13.4	21.2
318517 2005 EM_{188}	16.2	X	199.68261	358.81202	190.33780	25.34245	0.1622451	0.27532917	2.3401008	21	11 15.9	20.0
318518 2005 EU_{191}	17.4	X	182.79083	84.49587	188.82524	6.11413	0.2271072	0.28524996	2.2855233	21	—	—
318519 2005 EE_{196}	17.4	X	284.48171	227.86917	200.08174	3.44208	0.2177564	0.27417150	2.3466834	21	9 8.5	19.8
318520 2005 EW_{202}	17.1	X	180.11787	49.68721	169.86856	8.55366	0.0912926	0.27740044	2.3284377	21	12 9.7	20.5
318521 2005 EC_{203}	17.1	X	152.68786	111.68371	167.96046	5.80596	0.1126245	0.28127080	2.3070285	21	—	—
318522 2005 ED_{203}	17.8	X	189.93263	210.03305	40.20244	2.62385	0.1781476	0.28190131	2.3035872	21	—	—
318523 2005 ED_{220}	16.0	X	272.27340	311.82161	215.07109	10.99377	0.2036363	0.22531964	2.6746688	21	12 29.7	19.3
318524 2005 EV_{226}	17.5	X	159.45189	87.42852	177.24591	6.27487	0.1771839	0.28010685	2.3134151	21	—	—
318525 2005 EA_{233}	17.2	X	251.73987	43.20254	120.60737	7.05684	0.1391533	0.28360570	2.2943487	21	12 20.6	19.8
318526 2005 EX_{240}	17.3	X	251.61597	178.40756	29.48754	6.30676	0.2188895	0.28896092	2.2659134	21	—	—
318527 2005 EY_{245}	17.7	X	125.28072	110.91969	165.86458	2.88989	0.1587985	0.27655211	2.3331970	21	12 23.3	21.3
318528 2005 EB_{246}	17.4	X	121.02041	232.05698	49.77662	1.07819	0.1982794	0.27583370	2.3372464	21	12 26.3	21.2
318529 2005 EF_{246}	16.3	X	184.66391	183.07250	156.51571	0.84441	0.0394894	0.17842938	3.1248210	21	2 8.5	20.8
318530 2005 EQ_{250}	17.2	X	180.61933	135.96530	340.46814	20.60462	0.0414834	0.38250859	1.8794982	21	8 5.6	19.3
318531 2005 EU_{250}	17.1	X	227.21868	100.69242	107.29454	6.88035	0.0999187	0.28472059	2.2883554	21	—	—
318532 2005 EC_{264}	17.9	X	272.60801	210.58583	242.79786	1.45899	0.1527737	0.27560832	2.3385204	21	10 8.7	20.4
318533 2005 ER_{268}	16.5	X	182.94361	259.75701	278.10436	2.25689	0.0313757	0.21019464	2.8014849	21	10 12.9	20.6
318534 2005 EX_{269}	17.4	X	215.67331	337.56249	162.92243	6.80674	0.1710003	0.27252410	2.3561310	21	9 28.7	20.8
318535 2005 EY_{269}	17.3	X	317.55396	347.78464	154.07491	4.01985	0.1407392	0.28949786	2.2631108	21	—	—
318536 2005 EX_{322}	16.0	X	359.01261	36.41998	73.73647	13.45429	0.1232395	0.23421122	2.6065392	21	—	—
318537 2005 FA_{6}	14.9	X	353.47806	238.75341	284.13697	15.14911	0.2004920	0.17731076	3.1379498	21	1 7.5	18.4
318538 2005 FE_{6}	16.3	X	206.95748	312.41951	310.86379	8.43491	0.1315861	0.29027541	2.2590676	21	—	—
318539 2005 FX_{6}	17.3	X	165.23976	125.45723	70.89459	7.26178	0.1463948	0.27100987	2.3648992	21	10 23.4	20.9
318540 2005 GO_{2}	17.2	X	139.46548	111.18515	51.82848	4.33562	0.1576042	0.26161724	2.4211692	21	8 15.3	20.9
318541 2005 GS_{2}	17.7	X	205.08838	131.29396	80.41626	2.71974	0.1493306	0.27879377	2.3206733	21	12 20.5	21.0
318542 2005 GH_{3}	17.2	X	175.52781	147.09681	74.52945	6.13100	0.1837665	0.27480559	2.3430722	21	11 29.9	20.9
318543 2005 GT_{3}	17.5	X	144.99773	176.44125	97.17900	3.27060	0.1995647	0.27567700	2.3381320	21	—	—
318544 2005 GP_{5}	17.0	X	134.02168	159.40371	51.07917	6.23246	0.1689294	0.26621189	2.3932299	21	10 11.1	20.8
318545 2005 GQ_{6}	17.8	X	260.58680	348.53987	122.23517	3.01522	0.1639818	0.27409544	2.3471175	21	10 15.3	20.4
318546 2005 GG_{7}	17.5	X	100.25682	54.78024	175.98785	5.63601	0.1942460	0.26270067	2.4145077	21	10 4.9	21.0
318547 Fidrich	18.0	X	265.37649	73.73009	41.44727	2.93842	0.1148978	0.27700395	2.3306590	21	11 4.8	20.4
318548 2005 GG_{15}	18.2	X	220.14106	324.85715	177.28779	1.01944	0.1245318	0.27378251	2.3489057	21	10 10.2	21.4
318549 2005 GV_{16}	17.2	X	295.58922	276.33329	178.34967	0.67601	0.0574430	0.21990266	2.7184148	21	11 19.0	20.6
318550 2005 GG_{27}	17.0	X	251.37622	129.32409	353.83829	12.56233	0.0783517	0.27450773	2.3447669	21	10 26.5	20.0
318551 2005 GL_{37}	15.9	X	290.73465	290.05635	255.62277	12.63199	0.1431563	0.23010171	2.6374819	21	—	—
318552 2005 GC_{39}	17.9	X	231.59935	152.15134	61.06928	0.61358	0.2285319	0.28397588	2.2923543	21	—	—
318553 2005 GB_{42}	16.5	X	296.05917	296.55299	170.09624	6.07433	0.0781166	0.22500718	2.6771444	21	12 5.4	19.8
318554 2005 GM_{54}	16.5	X	53.80383	128.59084	202.11226	4.53037	0.0084809	0.21523983	2.7575345	21	11 17.6	20.2
318555 2005 GV_{70}	17.3	X	223.49023	265.03790	357.17417	3.28418	0.1489971	0.29200496	2.2501384	21	—	—
318556 2005 GQ_{74}	17.6	X	180.75625	21.07976	199.79943	2.15296	0.1635881	0.27733579	2.3287995	21	12 5.5	21.0
318557 2005 GP_{87}	17.7	X	118.02523	139.27123	148.76920	3.98895	0.2027254	0.27134116	2.3629739	21	12 30.5	21.7
318558 2005 GC_{94}	18.0	X	156.75312	89.73870	180.35027	5.63547	0.2147419	0.27825515	2.3236671	21	—	—
318559 2005 GU_{100}	17.2	X	51.26198	195.88629	26.92588	2.59218	0.1255299	0.25420050	2.4680377	21	7 10.8	19.9
318560 2005 GO_{103}	17.2	X	78.78332	132.54230	202.25132	5.20720	0.1540094	0.27648731	2.3335615	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
318561 2005 GC_{113}	17.0	X	176.61631	96.14964	139.34286	12.53294	0.1561269	0.27675071	2.3320806	21	12 20.9	20.7
318562 2005 GA_{116}	17.6	X	48.79775	222.79393	69.22360	3.09650	0.1707393	0.26287936	2.4134134	21	10 23.9	20.4
318563 2005 GD_{117}	17.7	X	101.95704	274.75588	352.56637	2.15147	0.1805937	0.26755325	2.3852243	21	11 19.6	21.5
318564 2005 GY_{117}	17.6	X	311.47188	123.12681	129.50230	2.26016	0.0912805	0.24256095	2.5463736	21	3 5.3	20.9
318565 2005 GX_{118}	17.6	X	307.27880	12.82417	77.32784	2.84187	0.1666260	0.27957872	2.3163276	21	12 10.3	19.4
318566 2005 GV_{123}	17.4	X	317.99857	228.55087	194.99573	6.34731	0.0760804	0.27905544	2.3192223	21	11 23.9	19.7
318567 2005 GH_{132}	17.6	X	238.19461	318.15095	179.36930	5.55910	0.0676934	0.27305188	2.3530940	21	11 5.2	20.4
318568 2005 GV_{132}	17.7	X	206.70629	347.07940	183.71541	7.15771	0.0467610	0.27264492	2.3554349	21	11 12.0	20.7
318569 2005 GA_{135}	17.8	X	109.29380	54.87943	214.08055	2.22821	0.1712407	0.26845595	2.3798744	21	11 28.7	21.5
318570 2005 GT_{136}	17.2	X	79.87345	184.43950	100.58226	5.49073	0.1738981	0.26550922	2.3974505	21	11 21.2	20.8
318571 2005 GO_{139}	16.2	X	240.82985	302.39202	185.62088	8.86643	0.1011372	0.21033472	2.8002409	21	10 12.7	20.2
318572 2005 GL_{141}	18.2	X	125.19703	83.27723	176.66385	2.39867	0.3167991	0.26843299	2.3800100	21	12 4.9	22.5
318573 2005 GO_{141}	16.5	X	198.33110	340.67707	205.04888	7.62582	0.2342907	0.21270090	2.7794348	21	10 27.4	21.1
318574 2005 GL_{144}	16.8	X	98.31713	246.93466	73.14790	8.06678	0.1405359	0.27487750	2.3426636	21	—	—
318575 2005 GY_{146}	16.8	X	62.85921	99.08563	228.10121	4.30892	0.1503553	0.27099329	2.3649957	21	12 23.5	20.0
318576 2005 GY_{148}	17.1	X	183.34671	133.17415	116.78582	3.89122	0.1773509	0.27814198	2.3242973	21	—	—
318577 2005 GN_{151}	17.0	X	207.25075	287.96922	188.71815	6.55205	0.0736896	0.26222266	2.4174411	21	8 23.8	20.5
318578 2005 GG_{152}	17.8	X	198.76073	256.80080	221.55571	3.11793	0.1092411	0.26324782	2.4111609	21	8 14.0	21.2
318579 2005 GH_{156}	17.2	X	343.97688	26.44654	194.61495	4.88305	0.1576060	0.24165055	2.5527651	21	2 26.6	19.9
318580 2005 GL_{162}	17.3	X	105.16577	93.86296	172.99850	5.90828	0.3622939	0.26465190	2.4026253	21	12 1.9	21.9
318581 2005 GE_{168}	17.1	X	71.38589	38.72848	217.23687	1.81389	0.1808885	0.25933722	2.4353393	21	10 3.7	20.2
318582 2005 GT_{170}	16.7	X	160.24962	167.50523	89.48632	7.87734	0.2003316	0.27470430	2.3436481	21	12 28.6	20.5
318583 2005 GP_{180}	17.6	X	125.74741	115.70522	89.07619	2.38964	0.1316414	0.26477560	2.4018769	21	9 23.1	21.1
318584 2005 GV_{187}	17.1	X	55.40298	219.44748	157.46853	4.75739	0.1791473	0.29041695	2.2583335	21	—	—
318585 2005 GA_{188}	17.5	X	268.35223	83.69813	348.37943	6.67586	0.0739134	0.27368635	2.3494559	21	9 14.4	20.0
318586 2005 GR_{189}	17.1	X	289.04400	343.74056	344.45069	2.22705	0.2053945	0.25722467	2.4486552	21	4 25.8	20.6
318587 2005 GS_{220}	16.9	X	306.38476	33.46220	17.80171	6.79331	0.1263342	0.26947575	2.3738663	21	10 9.3	19.1
318588 2005 GK_{227}	17.4	X	123.27947	172.68346	45.61328	6.92453	0.1457769	0.26583381	2.3954985	21	10 9.8	21.0
318589 2005 GU_{227}	17.5	X	165.92028	348.65990	236.42444	4.26864	0.2066151	0.27440512	2.3453513	21	11 24.5	21.2
318590 2005 HF_{2}	17.6	X	199.26707	82.57528	209.82268	5.57118	0.2238311	0.28530000	2.2852560	21	—	—
318591 2005 HM_{2}	17.3	X	104.99937	80.73225	178.02561	2.08198	0.1885503	0.26696912	2.3887023	21	11 13.4	20.9
318592 2005 HB_{3}	17.5	X	238.96876	4.76255	169.62051	5.64772	0.1077149	0.27984464	2.3148599	21	12 20.3	20.4
318593 2005 JH_{2}	17.4	X	278.42936	263.42778	203.55691	1.92689	0.1373043	0.27749056	2.3279335	21	11 11.3	19.8
318594 2005 JG_{4}	16.9	X	79.87901	187.21903	86.24149	5.73462	0.1532723	0.26200736	2.4187653	21	11 4.4	20.3
318595 2005 JA_{25}	17.3	X	128.88622	114.02417	166.62628	1.34317	0.1705159	0.27253768	2.3560528	21	12 30.6	21.1
318596 2005 JN_{29}	16.2	X	223.96221	164.57794	66.22856	25.04460	0.1889439	0.28118657	2.3074891	21	—	—
318597 2005 JH_{30}	17.9	X	183.13651	228.07347	348.81432	1.21495	0.1404678	0.27854128	2.3220755	21	12 4.4	21.2
318598 2005 JB_{40}	17.6	X	88.65213	247.27783	59.34223	3.04365	0.1915117	0.26892377	2.3771135	21	12 27.2	21.3
318599 2005 JM_{43}	15.8	X	312.92427	79.32047	145.57698	1.54526	0.1162644	0.17442427	3.1724742	21	2 7.8	20.1
318600 2005 JL_{44}	17.2	X	139.15085	126.62989	119.91954	2.03892	0.1527049	0.27052962	2.3676972	21	11 28.2	20.9
318601 2005 JX_{45}	15.3	X	230.58547	234.40881	121.65815	27.77778	0.1092846	0.18093810	3.0958699	21	4 27.5	20.7
318602 2005 JL_{48}	17.3	X	352.19635	180.72500	171.30386	6.04114	0.1175280	0.26040578	2.4286726	21	10 7.6	19.6
318603 2005 JW_{51}	15.6	X	321.07343	20.46762	206.96026	8.64863	0.0504517	0.17682189	3.1437309	21	2 27.1	20.0
318604 2005 JN_{54}	17.1	X	3.61389	206.25382	98.22324	6.45771	0.0885102	0.25579364	2.4577793	21	8 15.9	19.7
318605 2005 JB_{55}	17.8	X	155.20019	15.62513	179.39952	6.84169	0.0618435	0.26414654	2.4056887	21	10 9.8	21.1
318606 2005 JN_{55}	15.4	X	145.16422	319.64871	95.98884	10.90260	0.0840479	0.17685403	3.1433500	21	4 6.5	20.3
318607 2005 JC_{57}	16.7	X	121.47206	320.60473	39.86266	6.45611	0.0452530	0.22562453	2.6722587	21	—	—
318608 2005 JK_{58}	16.9	X	211.14797	18.21887	140.26941	5.08366	0.0627784	0.26952802	2.3735594	21	10 30.2	20.1
318609 2005 JM_{63}	15.7	X	290.43296	69.18606	181.07940	26.15869	0.2312397	0.17270617	3.1934796	21	1 26.1	21.0
318610 2005 JS_{64}	16.2	X	249.99034	175.12794	200.28284	9.87973	0.0781251	0.18943944	3.0025421	21	6 2.9	20.7
318611 2005 JY_{65}	15.8	X	308.44078	61.58186	195.95536	13.13917	0.1753332	0.17736930	3.1372593	21	3 2.2	20.3
318612 2005 JT_{66}	17.8	X	170.74885	315.80056	279.61035	2.28429	0.1873613	0.27387891	2.3483545	21	12 11.9	21.6
318613 2005 JJ_{69}	15.6	X	191.45203	250.86604	144.01631	16.75428	0.0408060	0.18028827	3.1033046	21	4 29.4	20.5
318614 2005 JD_{74}	15.3	X	201.51846	324.84287	64.48561	10.76324	0.0753099	0.18294925	3.0731396	21	4 29.9	20.0
318615 2005 JS_{75}	17.6	X	157.49463	148.66706	71.56687	3.08711	0.1568246	0.27072108	2.3665808	21	11 12.5	21.1
318616 2005 JA_{80}	17.1	X	66.33315	269.22349	24.87714	1.00363	0.2175372	0.26231626	2.4168660	21	11 21.7	20.7
318617 2005 JP_{82}	17.6	X	153.81675	54.65109	190.48687	0.75999	0.1439613	0.27221067	2.3579393	21	12 10.2	21.3
318618 2005 JK_{92}	15.9	X	46.42665	259.05829	307.39151	7.23128	0.1368577	0.18818445	3.0158765	21	6 11.1	19.7
318619 2005 JV_{102}	16.9	X	123.15690	109.86747	148.95955	7.57529	0.1080603	0.26808479	2.3820705	21	11 28.2	20.5
318620 2005 JJ_{110}	17.5	X	75.78111	93.86306	200.66376	2.08581	0.1913299	0.26644924	2.3918085	21	11 30.0	21.1
318621 2005 JF_{114}	15.5	X	93.27554	21.33206	55.02346	11.24588	0.0773081	0.17459285	3.1704318	21	3 1.9	20.0
318622 2005 JR_{131}	15.8	X	229.92201	225.12573	177.30356	10.43338	0.0403184	0.18869807	3.0104015	21	6 17.3	20.3
318623 2005 JK_{137}	18.1	X	163.64773	103.06821	136.73322	3.01925	0.1409963	0.27336032	2.3513236	21	12 13.4	21.5
318624 2005 JZ_{137}	17.2	X	197.80993	281.81972	182.99220	9.25423	0.0962382	0.25682375	2.4512029	21	7 25.5	20.9
318625 2005 JU_{142}	15.2	X	234.63024	223.54967	76.78319	11.33465	0.1879840	0.17216553	3.2001616	21	2 13.7	20.7
318626 2005 JU_{164}	16.8	X	81.78384	315.74152	275.61997	0.73344	0.0482532	0.19681251	2.9270777	21	8 20.8	20.9
318627 2005 JH_{170}	17.5	X	117.15954	188.03969	56.67698	5.76295	0.1792589	0.26720832	2.3872765	21	11 6.6	21.2
318628 2005 JB_{177}	17.7	X	221.98003	213.60227	14.05276	1.34782	0.1436514	0.28026904	2.3125225	21	—	—
318629 2005 JH_{185}	17.3	X	182.46131	280.83454	237.28045	5.79436	0.0501428	0.26447506	2.4036962	21	9 19.8	20.7
318630 2005 KS_{2}	15.9	X	83.35513	327.47665	207.01116	8.29177	0.0607857	0.18788244	3.0191075	21	6 11.6	20.1
318631 2005 KE_{5}	17.6	X	51.75761	170.62568	83.80205	2.63281	0.1493838	0.25521768	2.4614756	21	9 1.3	20.5
318632 2005 KP_{6}	17.0	X	94.71570	32.97219	248.27670	2.44629	0.1785023	0.26569218	2.3963497	21	11 30.3	20.7
318633 2005 LG_{5}	17.0	X	107.30170	107.06780	121.02225	6.28968	0.1532951	0.26066764	2.4270458	21	10 7.2	20.7
318634 2005 LG_{7}	12.9	X	252.61210	47.50386	74.31515	26.49269	0.0378305	0.08428884	5.1517646	21	10 24.5	20.1
318635 2005 LN_{12}	16.0	X	351.36172	204.11955	134.00494	8.70640	0.1683347	0.25119269	2.4877003	21	9 17.4	18.2
318636 2005 LB_{13}	16.8	X	112.68368	359.94985	209.89124	9.23482	0.0973632	0.25910433	2.4367984	21	9 7.7	20.4
318637 2005 LE_{18}	16.7	X	259.66450	10.54455	220.38723	8.36408	0.1414544	0.22596985	2.6695356	21	—	—
318638 2005 LC_{25}	15.6	X	345.07127	161.14865	78.81550	12.72650	0.0146862	0.18105177	3.0945739	21	4 25.9	20.0
318639 2005 LH_{29}	17.0	X	179.38113	88.46155	70.66142	7.03678	0.0477955	0.26151730	2.4217860	21	9 24.1	20.4
318640 2005 LT_{37}	17.4	X	200.63730	19.09660	152.74568	6.24616	0.1497071	0.26956527	2.3733407	21	10 26.5	20.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
318641 2005 LZ_{38}	13.4	X	128.33424	85.12275	170.22822	12.65190	0.0259448	0.08375723	5.1735403	21	10 31.4	20.4
318642 2005 LA_{41}	17.5	X	48.57256	131.66672	139.40751	3.03417	0.1729129	0.25577816	2.4578785	21	9 23.9	20.3
318643 2005 LW_{49}	16.5	X	92.97842	195.81166	104.95998	14.65256	0.0630810	0.26868788	2.3785046	21	12 15.3	19.8
318644 2005 MJ_{4}	17.6	X	93.26064	23.91338	294.71938	1.22735	0.2262756	0.26566133	2.3965352	21	—	—
318645 2005 MW_{15}	16.7	X	291.46948	181.53399	139.88390	16.14116	0.1961715	0.24208538	2.5497074	21	4 29.7	20.5
318646 2005 MH_{26}	16.7	X	53.60408	148.99713	154.88969	2.57100	0.1984384	0.25705885	2.4497081	21	11 17.7	19.9
318647 2005 MJ_{26}	16.5	X	339.82589	160.81840	118.45833	13.41026	0.1660412	0.24150500	2.5537907	21	5 20.7	19.3
318648 2005 MV_{27}	15.7	X	231.18701	258.38863	165.60036	10.65009	0.0682112	0.18210791	3.0825976	21	7 12.2	20.4
318649 2005 MW_{37}	17.4	X	118.53658	131.11300	134.71872	5.81555	0.2094776	0.26300361	2.4126532	21	12 4.5	21.4
318650 2005 MJ_{41}	16.9	X	304.21595	342.43249	302.28735	8.00310	0.2332207	0.23506097	2.6002535	21	3 13.3	20.7
318651 2005 MF_{43}	16.3	X	42.30613	153.33010	155.64248	8.00658	0.2220043	0.25487680	2.4636699	21	11 15.1	19.5
318652 2005 MR_{45}	16.9	X	326.57145	70.83389	259.07383	2.29275	0.0972297	0.24461122	2.5321249	21	7 14.8	19.8
318653 2005 MC_{47}	17.4	X	175.67893	232.54476	135.30655	5.80182	0.2136100	0.28436383	2.2902689	21	3 2.6	21.0
318654 2005 MJ_{48}	16.9	X	337.08463	130.94187	163.63316	7.22479	0.0973829	0.24205599	2.5499138	21	6 11.6	19.9
318655 2005 MY_{49}	17.6	X	126.83406	147.54808	101.69195	1.49241	0.1824162	0.26215548	2.4178541	21	11 19.9	21.5
318656 2005 NY_{3}	17.5	X	174.61039	197.20254	147.54239	2.92318	0.2242834	0.28132596	2.3067269	21	1 31.8	21.1
318657 2005 NZ_{4}	17.5	X	109.30075	319.03523	284.73539	1.61488	0.1590241	0.25819698	2.4425040	21	10 25.6	21.1
318658 2005 NF_{12}	17.3	X	194.74778	287.62955	273.60400	5.54850	0.0739893	0.26545489	2.3977776	21	12 1.1	20.7
318659 2005 NU_{13}	17.5	X	149.83491	16.85479	245.14278	1.61929	0.1659397	0.26429057	2.4048146	21	12 25.2	21.2
318660 2005 NE_{18}	17.0	X	301.06256	58.15614	279.54559	2.42716	0.1277638	0.24158874	2.5532005	21	6 9.3	20.0
318661 2005 NK_{26}	17.5	X	129.36569	35.95244	193.48050	2.76079	0.1225803	0.26007785	2.4307137	21	10 26.6	21.0
318662 2005 NC_{49}	16.1	X	239.63727	237.67769	101.33404	15.75820	0.1365094	0.23002242	2.6380879	21	4 5.8	20.5
318663 2005 NN_{55}	17.4	X	200.08301	255.99149	78.54858	7.35858	0.1643917	0.28589161	2.2821023	21	2 9.6	21.0
318664 2005 NO_{59}	16.9	X	182.39663	243.53486	116.63008	3.45313	0.0857594	0.22528772	2.6749215	21	2 27.3	20.8
318665 2005 NT_{76}	17.2	X	336.92232	129.74698	156.42075	5.87032	0.1775725	0.24082737	2.5585789	21	5 20.8	19.8
318666 2005 NJ_{124}	16.6	X	91.27271	156.38613	291.23248	4.14480	0.1315699	0.21862781	2.7289722	21	3 6.1	20.2
318667 2005 ON_{9}	16.5	X	1.32130	249.93265	45.10865	3.16439	0.1219680	0.24455649	2.5325027	21	7 27.8	18.9
318668 2005 OH_{13}	17.5	X	77.77673	341.98455	340.23147	20.32190	0.0316439	0.38401334	1.8745852	21	—	—
318669 2005 OC_{16}	16.4	X	22.34091	119.29504	180.29071	2.02099	0.2306341	0.18744199	3.0238353	21	9 19.2	19.6
318670 2005 OY_{19}	16.7	X	166.20629	67.51290	316.08001	5.75588	0.0573336	0.22380719	2.6867053	21	3 6.1	20.7
318671 2005 OF_{21}	17.2	X	117.62115	189.87882	84.02388	2.47151	0.1506586	0.26152358	2.4217472	21	12 10.4	21.0
318672 2005 PN	16.3	X	321.82231	69.66976	318.98133	21.36725	0.4567951	0.18139459	3.0906738	21	8 2.9	19.1
318673 2005 PY_{9}	15.1	X	7.74914	149.91763	164.10808	0.04080	0.1838824	0.12319162	4.0002021	21	8 28.6	19.7
318674 2005 PE_{11}	17.2	X	16.70872	154.17240	113.46327	3.00022	0.1289120	0.24284020	2.5444212	21	7 15.0	19.4
318675 2005 PA_{16}	16.7	X	27.05935	278.50224	339.94259	13.84359	0.1101246	0.24234111	2.5479133	21	7 23.2	19.7
318676 Bellelay	15.9	X	210.79200	322.71244	342.09950	17.54081	0.2108327	0.21882544	2.7273289	21	1 26.3	20.8
318677 2005 PO_{19}	16.3	X	89.73818	197.41782	338.37002	9.21986	0.1146754	0.23772394	2.5807985	21	6 30.1	19.8
318678 2005 QP_{16}	16.5	X	160.36365	58.27658	1.53127	5.87547	0.0360675	0.22580546	2.6708311	21	4 12.9	20.3
318679 2005 QH_{17}	16.9	X	124.08386	339.77592	21.02801	5.36990	0.2408129	0.27154487	2.3617920	21	1 4.3	19.8
318680 2005 QD_{18}	16.7	X	240.87564	187.08035	166.47117	9.51145	0.1351679	0.22859719	2.6490417	21	4 19.6	20.8
318681 2005 QZ_{22}	18.0	X	29.63144	188.11448	246.54744	1.45364	0.1586434	0.26727908	2.3868552	21	—	—
318682 Carpaccio	17.1	X	150.76148	357.80402	353.65467	3.58305	0.0799671	0.21340159	2.7733475	21	1 14.5	21.1
318683 2005 QD_{35}	16.7	X	268.79134	312.30813	5.36511	7.06300	0.0836806	0.22884281	2.6471459	21	4 6.7	20.3
318684 2005 QM_{49}	16.8	X	342.79868	243.62525	70.74343	3.58532	0.1296076	0.24122785	2.5557464	21	7 19.8	19.3
318685 2005 QG_{52}	16.8	X	278.25036	324.88055	330.05011	12.89408	0.2518052	0.22988860	2.6391116	21	2 27.9	21.0
318686 2005 QH_{52}	16.3	X	174.08040	38.23280	328.69442	11.36510	0.1997478	0.21966837	2.7203473	21	3 3.2	20.9
318687 2005 QP_{52}	17.0	X	140.98014	292.60747	7.23610	4.75166	0.1918100	0.26737286	2.3862970	21	—	—
318688 2005 QC_{59}	16.2	X	129.54802	217.16342	159.83718	9.71386	0.1717228	0.21216023	2.7841550	21	1 31.5	20.3
318689 2005 QC_{62}	16.8	X	122.83304	27.10172	359.45653	3.66419	0.1093375	0.21412856	2.7670668	21	1 29.1	20.5
318690 2005 QV_{62}	18.4	X	257.05083	15.65848	29.94558	1.25022	0.2181438	0.36300026	1.9462476	21	7 1.1	20.7
318691 2005 QV_{63}	15.5	X	290.20834	334.22897	147.46284	11.74502	0.1098177	0.19692693	2.9259438	21	12 7.5	19.4
318692 2005 QG_{74}	15.8	X	223.20588	9.90593	348.99176	10.55181	0.1492848	0.22564652	2.6720852	21	4 3.1	20.2
318693 2005 QQ_{74}	16.3	X	284.72465	134.85477	173.69298	15.29430	0.1922622	0.22998527	2.6383721	21	4 1.9	20.1
318694 Keszthelyi	16.9	X	291.62935	329.58468	323.67892	8.10047	0.0838103	0.23056921	2.6339155	21	3 31.1	20.6
318695 2005 QH_{76}	15.7	X	275.80730	340.87754	4.60985	33.90965	0.2054349	0.23240664	2.6200145	21	4 19.4	20.1
318696 2005 QK_{80}	16.9	X	115.99709	256.48685	174.35982	4.98253	0.1543471	0.21959252	2.7209738	21	3 21.9	20.7
318697 2005 QY_{84}	16.0	X	102.56773	83.51725	346.49104	13.21932	0.1347323	0.21500778	2.7595182	21	3 2.5	19.6
318698 Barthalajos	16.8	X	97.80541	70.93677	306.67185	3.25799	0.1668465	0.20755976	2.8251441	21	—	—
318699 2005 QN_{92}	17.0	X	158.84422	24.83753	344.01460	8.92797	0.0882894	0.21815546	2.7329100	21	2 14.5	21.1
318700 2005 QU_{101}	16.6	X	156.39093	37.42310	301.25804	4.61315	0.1152008	0.21270737	2.7793785	21	1 8.7	20.6
318701 2005 QS_{102}	16.2	X	16.91903	276.52024	329.42735	13.27254	0.0581354	0.23561914	2.5961453	21	6 7.8	19.6
318702 2005 QY_{102}	17.1	X	179.19044	90.05022	263.11315	3.52375	0.1130971	0.21855012	2.7296189	21	2 15.4	21.2
318703 2005 QK_{104}	16.7	X	156.63377	53.58069	317.90376	4.43699	0.1378636	0.21713635	2.7414544	21	2 18.1	20.8
318704 2005 QS_{107}	16.7	X	108.37136	247.61128	175.30175	8.60320	0.0907765	0.21686297	2.7437579	21	2 20.1	20.4
318705 2005 QF_{113}	16.3	X	229.63026	163.01850	168.47810	10.64418	0.1388266	0.22310122	2.6923701	21	3 10.3	20.5
318706 2005 QX_{113}	16.1	X	111.49908	29.82556	10.37987	13.71762	0.1978553	0.21111079	2.7933741	21	2 18.8	20.1
318707 2005 QD_{114}	17.2	X	141.11074	303.65414	117.30657	1.68570	0.0933323	0.28304103	2.2973991	21	3 23.7	20.1
318708 2005 QM_{118}	17.2	X	51.24219	256.62677	344.71909	1.84343	0.0814912	0.24242556	2.5473216	21	7 30.7	20.2
318709 2005 QD_{119}	15.8	X	163.66506	36.51350	344.60670	8.63915	0.0661232	0.15939579	3.3688743	21	3 10.5	20.8
318710 2005 QQ_{133}	16.6	X	91.10258	174.21477	100.61083	0.34152	0.1985027	0.19304370	2.9650519	21	11 11.6	21.3
318711 2005 QA_{143}	16.3	X	290.12867	17.77938	276.77443	11.00668	0.1798717	0.23029855	2.6359788	21	3 14.9	20.4
318712 2005 QW_{151}	16.2	X	131.55833	28.15697	345.36588	7.58307	0.2295460	0.21321184	2.7749927	21	2 7.8	20.4
318713 2005 QV_{168}	16.2	X	249.90093	349.33604	314.63564	11.23401	0.1763785	0.22376195	2.6870674	21	2 19.7	20.6
318714 2005 QP_{176}	16.1	X	54.72097	7.34966	14.12318	5.76274	0.0726898	0.20110195	2.8853059	21	—	—
318715 2005 QE_{177}	16.3	X	253.41598	191.81872	149.38166	13.91444	0.0601019	0.22910832	2.6451003	21	4 27.3	20.3
318716 2005 QP_{177}	15.7	X	273.49523	144.97787	243.05444	9.89875	0.1443156	0.17663330	3.1459682	21	7 6.3	20.2
318717 2005 QP_{178}	16.3	X	95.62668	92.64533	359.14303	14.81884	0.1236844	0.21795767	2.7345631	21	3 18.7	19.7
318718 2005 QM_{179}	16.9	X	208.93578	19.41901	330.87031	2.51504	0.0778801	0.22454115	2.6808473	21	3 13.5	20.9
318719 2005 QC_{180}	14.8	X	351.48216	10.24823	277.00417	23.28060	0.1396884	0.17864110	3.1223515	21	6 25.6	18.2
318720 2005 QH_{183}	16.4	X	202.44354	238.24162	140.35063	13.54090	0.1938284	0.22354831	2.6887791	21	4 15.8	21.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
318721 2005 QL_{188}	17.0	X	56.41879	161.73608	239.96726	1.12356	0.0683495	0.20282681	2.8689247	21	—	—
318722 2005 RE_3	15.5	X	133.60673	195.94677	176.00109	27.18702	0.1510999	0.21265791	2.7798094	21	1 25.9	20.1
318723 Bialas	16.7	X	232.85125	340.38605	337.39572	11.22764	0.0754474	0.22253044	2.6969719	21	2 27.5	20.6
318724 2005 RT_8	16.1	X	146.17485	21.44443	5.60176	9.36333	0.1705283	0.21526019	2.7573607	21	3 4.5	20.4
318725 2005 RC_{11}	17.2	X	348.56521	187.86765	184.88254	23.13061	0.1138317	0.37421547	1.9071648	21	11 30.7	19.2
318726 2005 RR_{15}	17.2	X	13.06451	221.15307	6.83239	1.48632	0.1376389	0.23373761	2.6100589	21	5 7.5	19.6
318727 2005 RU_{18}	17.2	X	141.67837	245.19079	169.24345	3.31066	0.1337660	0.21975257	2.7196524	21	3 27.6	21.1
318728 2005 RC_{20}	17.1	X	7.98272	171.31499	1.51515	3.11787	0.0207260	0.21952043	2.7215695	21	2 19.6	20.6
318729 2005 RV_{22}	16.5	X	201.49329	26.11485	277.68354	4.53596	0.2429637	0.21693635	2.7431391	21	1 13.8	21.4
318730 2005 RK_{25}	15.9	X	156.92779	40.72352	329.21434	8.18695	0.1781628	0.21476298	2.7616148	21	2 20.5	20.2
318731 2005 RH_{27}	16.0	X	171.49530	67.14636	284.20449	7.44400	0.2535909	0.21506721	2.7590099	21	2 13.7	20.9
318732 2005 RX_{28}	15.6	X	187.62851	294.34383	41.61600	16.23920	0.2533694	0.21646961	2.7470807	21	2 17.5	20.7
318733 2005 RC_{29}	17.7	X	322.91693	251.20156	102.59586	5.47626	0.1900692	0.30528034	2.1844234	21	8 8.4	19.0
318734 2005 RW_{39}	16.0	X	124.52429	71.10931	284.06853	15.71444	0.2416205	0.20902965	2.8118844	21	1 9.7	20.0
318735 2005 RE_{44}	17.7	X	251.97991	108.65452	350.71194	19.19739	0.0675169	0.36976005	1.9224545	21	10 6.7	19.6
318736 2005 RW_{47}	16.0	X	307.84145	198.01933	43.91642	15.82597	0.1608722	0.21977796	2.7194430	21	2 15.6	20.1
318737 2005 SV_2	17.2	X	108.89958	157.14211	220.84591	0.49691	0.1940171	0.26985875	2.3716197	21	—	—
318738 2005 SC_4	16.8	X	320.84497	120.28119	200.04893	12.58493	0.2021615	0.23688297	2.5869031	21	6 5.7	19.7
318739 2005 SM_6	16.9	X	295.92744	315.74414	327.17327	3.03658	0.1558655	0.22439314	2.6820261	21	3 16.4	20.7
318740 2005 SA_7	16.7	X	234.12957	53.66383	300.10959	5.49827	0.1810171	0.22843884	2.6502657	21	4 5.2	21.2
318741 2005 SE_7	17.2	X	130.83042	204.30860	194.72453	4.84095	0.1727318	0.27649208	2.3335346	21	2 19.0	20.3
318742 2005 SL_8	15.9	X	155.35494	20.17953	10.02110	9.23731	0.1586249	0.21575505	2.7531428	21	3 15.5	20.2
318743 2005 SV_{10}	16.6	X	181.35689	131.47988	214.29153	5.44100	0.0659267	0.21459459	2.7630592	21	2 6.0	20.7
318744 2005 SC_{11}	16.4	X	158.87590	171.31744	193.77834	7.48059	0.1622063	0.21504887	2.7591667	21	2 13.4	20.9
318745 2005 SJ_{11}	16.8	X	150.08765	216.09790	126.14608	1.03355	0.0792973	0.20871130	2.8147429	21	1 2.6	20.8
318746 2005 SC_{16}	16.6	X	45.63159	306.74190	193.40494	14.60561	0.1485804	0.21596701	2.7513411	21	3 4.8	19.8
318747 2005 SM_{21}	16.1	X	227.53428	317.82112	3.44993	9.15200	0.1054238	0.21834104	2.7313612	21	2 28.0	20.3
318748 2005 SE_{24}	16.3	X	201.30077	204.92716	168.37505	15.34550	0.1339238	0.22383216	2.6865054	21	4 6.0	20.6
318749 2005 SK_{32}	17.4	X	139.33550	200.89195	109.46476	2.51143	0.1988069	0.26598423	2.3945953	21	—	—
318750 2005 SA_{33}	16.0	X	313.28210	223.65995	43.57610	7.26885	0.0814625	0.22383632	2.6864722	21	4 2.3	19.5
318751 2005 SS_{35}	16.8	X	358.92842	17.61198	35.94755	10.37176	0.1544985	0.19198619	2.9759301	21	12 30.1	20.5
318752 2005 SG_{36}	16.5	X	59.34007	93.22244	5.83688	10.54025	0.1008801	0.21177683	2.7875142	21	2 4.5	20.0
318753 2005 ST_{37}	17.6	X	50.98734	343.87632	180.74773	5.30682	0.0974647	0.28503141	2.2866915	21	4 5.5	19.8
318754 2005 SK_{38}	17.0	X	127.43695	204.65299	195.36686	4.55147	0.0793632	0.21401249	2.7680672	21	2 13.7	21.0
318755 2005 SX_{38}	16.4	X	222.48511	40.44365	11.45708	7.22132	0.0196716	0.23301558	2.6154479	21	6 21.1	20.0
318756 2005 SC_{41}	16.8	X	179.83694	218.60436	119.09698	0.61951	0.0775434	0.21369799	2.7707825	21	1 28.5	20.8
318757 2005 SN_{41}	16.7	X	177.56534	33.03845	286.68545	3.15190	0.0537105	0.20933393	2.8091589	21	1 3.4	20.8
318758 2005 ST_{43}	16.3	X	176.07250	32.85101	355.04313	6.07051	0.0582560	0.21967630	2.7202819	21	3 24.5	20.3
318759 2005 SA_{46}	16.6	X	307.81529	325.85295	335.01454	2.16839	0.0581783	0.22874165	2.6479262	21	5 9.7	19.9
318760 2005 SA_{47}	16.8	X	206.22733	6.13314	0.52801	3.86259	0.0590744	0.28454088	2.2893188	21	3 24.7	19.9
318761 2005 ST_{47}	16.9	X	161.64092	33.94722	329.24749	2.87522	0.1100485	0.21385709	2.7694080	21	2 11.8	21.1
318762 2005 SZ_{48}	16.6	X	262.91192	123.64740	194.02020	2.65007	0.0509737	0.22296032	2.6935043	21	4 5.2	20.4
318763 2005 SE_{55}	15.7	X	180.00559	346.05305	22.56485	13.49952	0.1016023	0.21732388	2.7398771	21	3 12.9	20.0
318764 2005 SY_{60}	17.5	X	123.90525	147.27704	192.64817	4.53296	0.0583097	0.26590997	2.3950411	21	—	—
318765 2005 SP_{62}	16.6	X	42.94097	200.45687	22.59720	1.16554	0.1282172	0.23192520	2.6236391	21	6 26.7	19.4
318766 2005 SU_{62}	16.7	X	96.59868	21.90708	26.66541	4.60169	0.0653892	0.20919259	2.8104241	21	1 17.9	20.4
318767 2005 SK_{72}	17.2	X	300.85628	257.46443	49.12064	4.20990	0.1115679	0.29350494	2.2424655	21	4 24.3	19.8
318768 2005 SQ_{72}	16.8	X	305.47353	139.26815	171.06945	12.95146	0.2361369	0.23489792	2.6014567	21	4 24.3	20.3
318769 2005 SV_{74}	16.6	X	227.98425	142.63590	191.01960	4.45690	0.0564168	0.22207380	2.7006678	21	3 14.4	20.6
318770 2005 SL_{75}	16.8	X	150.32459	40.55159	3.64957	5.66773	0.0181394	0.21997378	2.7178289	21	3 12.2	20.5
318771 2005 SM_{76}	17.1	X	202.00500	144.10210	173.16830	2.01375	0.0766636	0.21490714	2.7603797	21	1 26.4	21.1
318772 2005 SO_{78}	16.6	X	55.15548	300.60979	173.33969	7.99420	0.1779940	0.21206921	2.7849515	21	2 19.4	19.5
318773 2005 SW_{85}	16.4	X	18.72957	146.20963	18.05835	8.40068	0.1560554	0.21516774	2.7581504	21	2 22.0	19.3
318774 2005 SW_{87}	17.0	X	82.38289	333.89067	62.56664	1.35041	0.0922920	0.20547711	2.8442019	21	—	—
318775 2005 SF_{90}	16.6	X	227.91643	343.78523	0.54791	1.99735	0.0921712	0.22159269	2.7045754	21	3 26.5	20.8
318776 2005 SC_{92}	17.3	X	59.47274	281.09694	13.82920	18.85811	0.0834682	0.37278320	1.9120467	21	11 7.7	19.5
318777 2005 SS_{92}	16.8	X	98.61748	29.75521	212.79642	3.27843	0.0894797	0.24464285	2.5319067	21	10 4.7	20.2
318778 2005 SC_{93}	16.7	X	282.43234	317.53240	342.75702	1.69524	0.0961432	0.22470486	2.6795451	21	3 30.9	20.4
318779 2005 SR_{98}	16.8	X	187.34642	34.69065	307.89605	5.33625	0.0277941	0.21415666	2.7668248	21	2 8.2	20.6
318780 2005 SL_{100}	17.5	X	172.60925	212.39076	280.23211	2.45895	0.0904665	0.29790698	2.2203201	21	8 6.7	20.4
318781 2005 SC_{101}	16.8	X	317.18927	108.43557	356.13785	8.66057	0.2044510	0.19133559	2.9826723	21	12 20.1	20.0
318782 2005 SG_{101}	16.8	X	132.02121	149.15365	255.47653	3.52276	0.1105131	0.21414643	2.7669129	21	2 28.5	20.8
318783 2005 SP_{101}	16.5	X	106.92498	88.20952	253.58276	4.77206	0.0820112	0.20070281	2.8891299	21	—	—
318784 2005 SJ_{103}	17.2	X	36.31633	68.99262	351.50208	1.83061	0.2083770	0.26139087	2.4225669	21	—	—
318785 2005 SS_{108}	15.9	X	81.61573	183.35682	14.63502	8.73568	0.1691363	0.23297342	2.6157634	21	7 30.3	19.6
318786 2005 SU_{116}	17.8	X	92.62382	142.98379	164.98631	23.17804	0.1108601	0.38629932	1.8671824	21	—	—
318787 2005 SX_{117}	15.8	X	346.51678	241.52032	146.06637	9.99367	0.0760387	0.18814230	3.0163269	21	11 4.0	19.8
318788 2005 SS_{118}	16.1	X	127.02089	172.16222	158.83879	15.90513	0.1431841	0.20425699	2.8555171	21	—	—
318789 2005 SH_{125}	17.0	X	321.61256	20.88011	187.27030	3.15974	0.0303421	0.21582846	2.7525185	21	2 1.5	20.7
318790 2005 SJ_{126}	16.9	X	257.64667	108.66940	181.34196	4.92385	0.0843799	0.21979402	2.7193105	21	2 18.9	20.9
318791 2005 SB_{127}	16.5	X	38.96521	127.14689	15.40006	5.73485	0.1283315	0.21492199	2.7602525	21	2 27.9	19.5
318792 2005 SO_{128}	16.2	X	195.77959	331.49655	26.60620	5.25512	0.1287148	0.21918159	2.7243736	21	3 13.0	20.5
318793 2005 SF_{130}	16.5	X	274.92270	295.42279	35.88059	6.05248	0.1217717	0.22889072	2.6467765	21	4 27.6	20.0
318794 Uglia	15.8	X	176.04071	200.41162	168.25600	9.13570	0.2518181	0.21691034	2.7433584	21	3 11.3	20.5
318795 2005 SM_{136}	17.0	X	318.83207	140.87491	150.60355	2.41463	0.2184204	0.23389651	2.6088767	21	4 18.9	19.9
318796 2005 SZ_{136}	16.9	X	295.64212	308.94674	341.28610	2.53981	0.1589427	0.22805874	2.6532097	21	3 24.8	20.6
318797 2005 SQ_{137}	16.8	X	150.48324	330.76341	8.79481	1.93571	0.0623445	0.20666550	2.8332881	21	—	—
318798 2005 SZ_{141}	17.1	X	333.35345	207.95854	70.91785	3.46923	0.1701543	0.23256810	2.6188017	21	5 3.8	19.9
318799 2005 SA_{142}	16.3	X	237.56238	346.03133	19.72799	13.91454	0.2213550	0.22843747	2.6502763	21	4 21.5	20.8
318800 2005 SJ_{144}	17.0	X	38.84301	290.46005	107.86095	3.16267	0.0833534	0.19816706	2.9137239	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
318801 2005 SH_{147}	16.9	X	283.53765	285.90250	150.06607	1.46021	0.1554640	0.18075263	3.0979873	21	9 19.5	21.0
318802 2005 SN_{151}	17.3	X	185.81429	149.16262	141.21494	1.96993	0.1683201	0.27027577	2.3691795	21	—	—
318803 2005 SC_{155}	17.2	X	310.84269	12.88985	263.58211	1.51992	0.0557933	0.22645935	2.6656874	21	4 11.5	20.7
318804 2005 SL_{156}	17.1	X	43.72220	341.09930	183.47383	4.87556	0.0538153	0.21996796	2.7178768	21	3 30.6	20.4
318805 2005 SH_{158}	16.0	X	199.17797	353.38390	10.35932	6.25231	0.0377835	0.22043749	2.7140161	21	3 21.1	19.8
318806 2005 SJ_{162}	16.9	X	197.56295	351.10762	336.55943	1.17379	0.0927599	0.21497274	2.7598180	21	2 4.3	21.2
318807 2005 SF_{165}	16.0	X	4.91336	266.18448	358.02801	15.35901	0.0292540	0.23548043	2.5971647	21	6 14.5	19.7
318808 2005 SH_{166}	16.1	X	271.61583	166.66645	151.70452	14.18926	0.1746595	0.22810273	2.6528685	21	4 4.6	20.2
318809 2005 SV_{166}	17.2	X	255.13420	27.20607	26.61533	21.34291	0.0941345	0.36325912	1.9453229	21	8 13.9	19.8
318810 2005 SG_{170}	16.5	X	210.43457	16.37291	307.34746	2.99752	0.2000983	0.21834594	2.7313203	21	2 11.6	21.2
318811 2005 SQ_{170}	16.5	X	20.66520	92.67773	355.66060	10.08981	0.1154919	0.20215755	2.8752530	21	—	—
318812 2005 SD_{173}	16.5	X	180.19569	57.45725	333.95351	5.73661	0.0336186	0.22267329	2.6958184	21	3 30.6	20.3
318813 2005 SO_{173}	17.0	X	104.82306	73.23749	321.87163	3.93156	0.0463884	0.20988633	2.8042277	21	1 8.4	20.7
318814 2005 SS_{174}	16.3	X	231.35386	42.92214	294.27213	4.45792	0.0839058	0.22264231	2.6960685	21	3 19.4	20.3
318815 2005 SE_{177}	15.2	X	223.14738	96.28014	8.61974	26.70931	0.2314665	0.17375094	3.1806651	21	8 23.6	20.8
318816 2005 SR_{181}	16.4	X	268.31696	92.63644	249.12560	2.82045	0.0226346	0.22838285	2.6506988	21	5 17.3	19.8
318817 2005 SX_{188}	16.5	X	337.95347	170.15058	21.15030	8.82347	0.1348854	0.21284812	2.7781531	21	1 22.6	20.1
318818 2005 SE_{191}	17.2	X	253.75772	258.80025	185.33383	21.37388	0.1350118	0.36594864	1.9357798	21	9 6.7	19.2
318819 2005 SH_{193}	16.3	X	181.81681	348.24936	4.85721	3.94443	0.2630839	0.21586609	2.7521985	21	2 26.8	21.0
318820 2005 SW_{195}	16.6	X	36.95599	305.09611	184.46605	9.09602	0.1715433	0.21213086	2.7844119	21	2 3.7	19.6
318821 2005 SA_{203}	16.1	X	233.58150	14.74379	297.81487	8.64830	0.1415861	0.22143506	2.7058588	21	2 16.9	20.4
318822 2005 SM_{205}	16.7	X	161.01458	13.74950	328.93891	9.09401	0.2148348	0.21285440	2.7780984	21	1 27.8	21.2
318823 2005 SR_{211}	17.6	X	10.77565	37.62498	15.28314	2.08054	0.1178188	0.19365646	2.9587940	21	—	—
318824 2005 SO_{213}	16.9	X	128.52932	60.24415	359.09807	2.02104	0.0616790	0.21547712	2.7555097	21	3 10.3	20.6
318825 2005 SB_{215}	15.9	X	210.95339	347.35052	355.06359	12.20949	0.1625091	0.21922950	2.7239767	21	3 7.6	20.2
318826 2005 SB_{218}	16.9	X	129.23984	337.18728	64.41145	3.99907	0.2246488	0.27481767	2.3430035	21	3 3.5	20.1
318827 2005 SK_{220}	15.9	X	289.03798	14.30247	293.02987	12.01493	0.1656663	0.22806308	2.6531760	21	3 31.7	19.9
318828 2005 SP_{227}	17.5	X	0.92870	39.50419	35.86531	3.12751	0.1275588	0.19668488	2.9283438	21	—	—
318829 2005 SV_{232}	16.6	X	282.80449	241.60041	25.67839	3.58158	0.1568678	0.21741824	2.7390843	21	2 13.3	20.7
318830 2005 SU_{233}	16.6	X	126.13531	18.31581	46.21420	0.82399	0.0558859	0.21449987	2.7638726	21	3 13.4	20.4
318831 2005 SK_{240}	16.6	X	60.18697	226.47243	259.89082	4.98482	0.0380978	0.21609202	2.7502799	21	2 28.3	20.2
318832 2005 SO_{240}	16.3	X	203.68630	351.69327	318.67573	4.92877	0.0535875	0.21182824	2.7870632	21	1 20.7	20.3
318833 2005 SP_{247}	16.5	X	200.19314	308.49034	7.91435	3.36100	0.0854665	0.21251821	2.7810275	21	1 25.5	20.8
318834 2005 SK_{249}	17.2	X	81.16408	193.19882	209.33964	1.48126	0.0700924	0.20322467	2.8651791	21	—	—
318835 2005 SO_{253}	16.6	X	229.05264	65.64357	277.40680	4.28420	0.1161047	0.28769477	2.2725568	21	3 15.4	20.0
318836 2005 SD_{257}	16.2	X	255.48148	143.73345	158.31229	11.44789	0.0626247	0.22188478	2.7022013	21	3 6.9	20.1
318837 2005 SQ_{260}	16.7	X	121.39219	308.49245	129.24068	3.33777	0.0679671	0.21770204	2.7367033	21	3 26.7	20.5
318838 2005 SJ_{261}	15.9	X	218.71813	222.93811	114.67023	15.25860	0.1243924	0.22057131	2.7129182	21	3 13.4	20.4
318839 2005 ST_{262}	17.2	X	149.15557	237.59755	180.56622	6.70327	0.0909662	0.28248455	2.3004153	21	3 29.1	20.0
318840 2005 SW_{266}	16.4	X	154.05964	316.44947	29.52347	10.11617	0.0993390	0.21091668	2.7950877	21	1 15.5	20.7
318841 2005 SZ_{266}	16.9	X	49.26032	62.63377	177.49185	15.18193	0.1156922	0.23982924	2.5656730	21	7 27.8	20.2
318842 2005 SX_{269}	16.0	X	175.43841	215.78883	170.39290	12.78723	0.1062040	0.22013461	2.7165050	21	3 26.0	20.2
318843 2005 SV_{273}	16.4	X	276.00807	271.24445	8.78220	9.66807	0.0313740	0.21988739	2.7185407	21	3 9.3	20.1
318844 2005 SG_{277}	16.2	X	333.07999	210.18154	348.62909	6.47417	0.0629139	0.21387140	2.7692845	21	2 3.2	19.9
318845 2005 SQ_{283}	16.8	X	347.54483	314.61488	126.40015	11.39132	0.1172993	0.19301607	2.9653348	21	—	—
318846 2005 SZ_{291}	16.7	X	164.08380	1.62718	357.13741	4.10837	0.0776081	0.21391814	2.7688811	21	2 7.1	20.7
318847 2005 TZ_{2}	16.3	X	162.53324	45.92930	344.65930	6.33595	0.1090357	0.21867954	2.7285418	21	3 16.5	20.5
318848 2005 TK_{5}	16.1	X	257.02765	335.25934	355.94143	12.10725	0.1921914	0.22661105	2.6644975	21	3 29.7	20.3
318849 2005 TG_{11}	16.3	X	145.34664	258.36462	193.50496	21.77987	0.0597613	0.22637963	2.6663131	21	5 12.0	20.3
318850 2005 TJ_{15}	17.3	X	246.76546	49.59050	23.24430	21.17711	0.0425237	0.36516779	1.9385384	21	9 10.4	19.6
318851 2005 TX_{16}	16.5	X	229.70693	14.07371	355.91566	13.66309	0.2604066	0.22978553	2.6399007	21	4 15.6	21.3
318852 2005 TU_{17}	16.6	X	155.09375	222.05205	99.56529	6.18479	0.1455244	0.27141216	2.3625618	21	—	—
318853 2005 TS_{31}	17.3	X	112.93539	238.64314	168.91158	5.87993	0.0571081	0.21274406	2.7790589	21	2 2.7	21.1
318854 2005 TV_{36}	16.6	X	203.06386	172.09966	184.47255	9.23986	0.0967020	0.22019383	2.7160178	21	3 15.5	20.8
318855 2005 TS_{39}	16.2	X	354.22719	65.59133	196.18637	12.72814	0.1247373	0.22941692	2.6427277	21	5 24.3	19.2
318856 2005 TQ_{41}	16.3	X	164.20948	97.81720	255.25412	5.29703	0.0651868	0.21355407	2.7720272	21	1 27.6	20.3
318857 2005 TX_{41}	15.1	X	202.85539	297.63524	27.20206	24.14848	0.2574232	0.21445247	2.7642799	21	2 20.8	20.4
318858 2005 TH_{51}	18.0	X	89.43146	280.77761	327.42334	17.85512	0.0743190	0.36884604	1.9256291	21	10 3.9	20.5
318859 2005 TX_{54}	16.1	X	317.69914	229.93699	32.58724	13.74518	0.2368943	0.22581610	2.6707472	21	3 12.9	19.7
318860 2005 TO_{56}	17.1	X	46.61172	0.04097	44.72238	2.54710	0.0931769	0.19962157	2.8995531	21	—	—
318861 2005 TJ_{57}	16.4	X	5.91095	119.87590	26.49510	10.71648	0.0535001	0.20930944	2.8093780	21	1 15.6	20.2
318862 2005 TD_{60}	16.5	X	10.91427	256.07173	285.59660	4.32199	0.0535274	0.21940774	2.7225013	21	3 2.5	20.0
318863 2005 TR_{61}	16.3	X	66.07469	355.94692	293.08629	1.14472	0.1402034	0.18654992	3.0334674	21	10 25.1	20.5
318864 2005 TC_{63}	17.0	X	208.96995	200.83047	63.88664	3.03834	0.0214272	0.20310936	2.8662634	21	—	—
318865 2005 TC_{71}	16.4	X	270.04385	253.80216	28.23995	4.70229	0.0277527	0.21729929	2.7400838	21	3 4.9	20.2
318866 2005 TO_{73}	15.5	X	325.17174	308.95740	62.14106	17.85875	0.2778013	0.17943379	3.1131489	21	8 26.5	19.0
318867 2005 TP_{76}	16.6	X	285.88483	159.85518	146.11156	14.28906	0.2699433	0.23081164	2.6320709	21	3 23.1	20.7
318868 2005 TY_{79}	17.3	X	283.47575	359.61995	320.62493	5.38020	0.2011317	0.29246530	2.2477766	21	4 3.9	20.6
318869 2005 TF_{81}	16.5	X	264.03051	288.75981	356.06905	8.48799	0.1847929	0.22125207	2.7073505	21	2 13.7	20.9
318870 2005 TX_{81}	16.4	X	99.51984	339.56294	213.96320	7.21522	0.1216350	0.23553084	2.5967942	21	8 3.1	20.2
318871 2005 TV_{84}	16.1	X	331.91022	95.03240	265.76479	2.02126	0.1492353	0.17970760	3.1099859	21	8 28.7	19.7
318872 2005 TZ_{88}	16.9	X	344.85179	246.10185	31.28920	6.91024	0.2656907	0.23715539	2.5849217	21	5 8.4	18.8
318873 2005 TH_{91}	17.0	X	68.21423	335.22153	122.86582	1.79959	0.0286310	0.21481880	2.7611364	21	2 5.1	20.4
318874 2005 TT_{97}	16.3	X	110.92150	202.59835	233.87790	4.20405	0.0639695	0.21437341	2.7649595	21	3 8.4	20.0
318875 2005 TS_{100}	13.7	X	31.61995	52.85725	23.46641	8.52924	0.1664904	0.07481396	5.5780314	21	1 2.6	20.2
318876 2005 TO_{102}	16.7	X	86.91167	150.25895	275.96780	2.47133	0.0776166	0.20901300	2.8120336	21	1 27.2	20.2
318877 2005 TP_{104}	16.3	X	80.47414	193.26067	245.81023	7.39846	0.1502930	0.20999238	2.8032835	21	2 10.2	19.8
318878 2005 TX_{109}	16.9	X	27.12322	293.59243	305.69522	2.57602	0.0789850	0.23326651	2.6135719	21	6 17.5	19.8
318879 2005 TW_{113}	16.9	X	5.64605	64.06995	198.87197	3.14768	0.0770355	0.23325497	2.6136581	21	6 15.5	19.8
318880 2005 TG_{114}	16.6	X	347.23486	261.81461	4.06499	3.49587	0.0970911	0.23087881	2.6315604	21	5 16.9	19.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
318881 2005 TZ_{114}	16.7	X	202.52382	101.32529	207.39925	5.58929	0.0563808	0.21265157	2.7798647	21	1 15.6	20.9
318882 2005 TZ_{118}	16.9	X	185.13411	356.73345	333.32467	1.23142	0.0895051	0.21276740	2.7788556	21	1 25.8	21.2
318883 2005 TJ_{123}	16.7	X	310.12589	133.90898	10.43359	2.68737	0.0256733	0.20083036	2.8879066	21	—	—
318884 2005 TA_{126}	17.0	X	50.57916	245.06017	179.06426	1.98333	0.0540571	0.20283801	2.8688191	21	—	—
318885 2005 TB_{127}	16.6	X	97.94328	18.03556	198.47467	4.87157	0.1147858	0.23854929	2.5748423	21	9 1.3	20.3
318886 2005 TG_{128}	17.0	X	279.01449	54.86897	222.92451	2.19927	0.1432231	0.22101103	2.7093187	21	2 20.8	21.0
318887 2005 TP_{135}	16.8	X	209.21434	176.35491	179.36136	6.42127	0.0540651	0.22173709	2.7034011	21	3 21.8	20.7
318888 2005 TB_{140}	16.8	X	306.36168	102.49994	156.53603	4.49416	0.0730650	0.22116428	2.7080669	21	3 12.9	20.4
318889 2005 TK_{145}	16.9	X	351.13038	114.60121	182.58352	12.50610	0.1632930	0.23721728	2.5844720	21	7 6.3	19.6
318890 2005 TX_{154}	17.0	X	7.59647	133.74364	315.53963	4.86232	0.0362726	0.20113805	2.8849606	21	—	—
318891 2005 TK_{163}	16.8	X	286.24257	315.45157	330.08193	2.83611	0.0598433	0.22156014	2.7048403	21	3 21.7	20.5
318892 2005 TP_{163}	16.5	X	196.89935	93.96440	235.71664	3.23407	0.0698759	0.21356291	2.7719507	21	2 4.2	20.7
318893 2005 TK_{164}	16.3	X	0.98813	326.19687	265.32181	2.74043	0.0448744	0.22370920	2.6874898	21	4 24.7	19.8
318894 2005 TJ_{168}	16.2	X	35.66965	137.04989	20.62729	8.51793	0.0709624	0.21534020	2.7566776	21	3 13.4	19.6
318895 2005 TK_{176}	16.4	X	173.04799	247.07289	119.46235	7.64316	0.1415879	0.21799476	2.7342529	21	3 2.9	20.7
318896 2005 TM_{176}	16.3	X	171.24399	336.35327	24.82831	6.26413	0.0721969	0.21516932	2.7581369	21	2 18.7	20.4
318897 2005 TA_{177}	16.1	X	134.80224	236.98528	111.88056	10.75829	0.1345663	0.20656707	2.8341880	21	—	—
318898 2005 TB_{178}	17.0	X	291.98054	227.96976	69.16377	3.30720	0.1389253	0.29232637	2.2484887	21	3 26.6	19.9
318899 2005 TE_{186}	17.0	X	230.55215	276.33154	34.43842	2.66637	0.0654533	0.21735837	2.7395873	21	2 18.9	21.0
318900 2005 TR_{186}	16.7	X	263.66446	13.80059	226.40951	5.50475	0.0188740	0.21022061	2.8012542	21	1 3.9	20.7
318901 2005 TN_{190}	16.5	X	318.12883	132.39009	309.67511	9.28019	0.2669057	0.18596708	3.0398023	21	11 10.5	19.6
318902 2005 UR_{5}	17.2	X	155.11336	278.05688	167.52567	18.56867	0.2002176	0.34555710	2.0112042	21	5 21.7	20.5
318903 2005 UQ_{8}	17.1	X	102.57403	331.21613	103.93213	3.41492	0.1835791	0.27231943	2.3573115	21	3 8.3	19.7
318904 2005 UF_{9}	17.1	X	252.28839	280.56752	91.41555	4.55702	0.1985926	0.23080724	2.6321043	21	5 17.2	21.1
318905 2005 UO_{18}	16.5	X	103.40590	352.17945	77.91828	2.80222	0.1398734	0.20962793	2.8065317	21	3 6.0	20.3
318906 2005 UT_{21}	16.1	X	198.75323	341.19405	24.09824	6.58941	0.0552884	0.21840693	2.7308118	21	3 23.8	20.1
318907 2005 UC_{24}	16.2	X	268.92824	270.59259	231.45369	6.47124	0.0562143	0.18992764	2.9973947	21	12 6.9	20.2
318908 2005 UK_{24}	17.7	X	337.44403	18.80264	21.12116	3.61901	0.0794295	0.31063433	2.1592508	21	11 28.7	19.7
318909 2005 UC_{32}	17.3	X	357.46923	119.23854	43.86447	1.49923	0.1356661	0.26992204	2.3712490	21	—	—
318910 2005 US_{40}	16.3	X	338.03137	199.44469	221.89359	3.77244	0.1500128	0.18558512	3.0439718	21	12 1.8	19.8
318911 2005 UE_{43}	16.4	X	183.13837	319.63398	51.55777	3.22684	0.1228884	0.21736531	2.7395290	21	3 16.6	20.7
318912 2005 US_{45}	16.0	X	306.86171	284.89193	35.64727	15.21457	0.1337443	0.23228547	2.6209255	21	5 21.2	19.4
318913 2005 UB_{46}	16.0	X	193.50570	7.03976	356.95388	5.72943	0.0394336	0.21820255	2.7325168	21	3 14.6	19.9
318914 2005 UV_{46}	16.3	X	23.76545	288.89640	162.17372	2.33883	0.0580660	0.19968677	2.8989219	21	—	—
318915 2005 UY_{49}	16.1	X	135.54831	39.61620	3.20220	4.07771	0.0706190	0.21304747	2.7764198	21	2 28.2	19.9
318916 2005 UM_{57}	16.4	X	143.78237	29.70562	8.59493	3.21717	0.0939204	0.21434078	2.7652401	21	3 6.4	20.5
318917 2005 UQ_{58}	16.4	X	273.94703	84.27717	30.13720	4.93858	0.1007708	0.18429238	3.0581900	21	11 1.7	20.6
318918 2005 UH_{60}	16.6	X	315.62403	175.69990	248.46399	4.97608	0.2694768	0.18169960	3.0872140	21	10 9.9	19.8
318919 2005 UC_{62}	16.3	X	12.18982	214.26391	226.11598	11.61015	0.0855781	0.19520237	2.9431517	21	—	—
318920 2005 UC_{70}	16.3	X	228.93709	1.91092	343.57404	12.72715	0.1817994	0.22285299	2.6943690	21	3 21.9	20.8
318921 2005 UM_{73}	16.2	X	353.78004	207.93337	227.77370	12.22445	0.1713664	0.19135151	2.9825068	21	—	—
318922 2005 UP_{77}	16.9	X	210.03782	279.18655	108.02439	6.71226	0.1891181	0.28590869	2.2820114	21	4 27.1	20.6
318923 2005 UT_{79}	16.8	X	235.10955	241.04149	69.79296	0.71957	0.0558650	0.21417073	2.7667036	21	2 24.2	20.9
318924 2005 UV_{86}	17.8	X	108.42984	114.35375	178.40557	1.96948	0.2127828	0.25656793	2.4528320	21	12 26.6	21.8
318925 2005 UF_{91}	16.3	X	310.75329	257.25492	342.39890	5.41565	0.0178006	0.21435752	2.7650961	21	3 2.4	20.0
318926 2005 UY_{91}	14.3	X	229.06283	165.73712	11.36350	8.59670	0.1301431	0.12360840	3.9912051	21	11 10.1	20.4
318927 2005 UB_{92}	16.4	X	165.38019	353.12089	0.47965	5.75955	0.0545276	0.20934554	2.8090550	21	2 1.6	20.5
318928 2005 UJ_{94}	16.0	X	294.95591	236.40707	17.47740	9.32732	0.1100828	0.21500647	2.7595294	21	2 19.1	19.9
318929 2005 UB_{95}	16.3	X	80.10128	115.51972	272.27534	3.75240	0.1498890	0.20071299	2.8890323	21	—	—
318930 2005 UC_{104}	16.6	X	348.43222	190.25551	197.00455	4.09587	0.1541141	0.18322570	3.0700477	21	11 5.5	19.9
318931 2005 UP_{104}	16.9	X	289.12015	338.88008	147.82124	1.71955	0.1092080	0.18771591	3.0208929	21	12 8.3	20.7
318932 2005 UB_{105}	17.0	X	289.76837	163.78289	131.72338	3.47437	0.1227112	0.22124549	2.7074042	21	4 1.5	20.7
318933 2005 UH_{107}	16.4	X	64.98941	248.62714	175.63661	3.92882	0.0435736	0.20235316	2.8733998	21	—	—
318934 2005 UT_{111}	16.9	X	227.43865	53.34069	286.84870	2.26432	0.1446244	0.21791818	2.7348934	21	3 17.9	21.2
318935 2005 UH_{123}	16.0	X	321.51575	193.30996	34.78073	5.14484	0.0553181	0.21442208	2.7645411	21	2 26.7	19.6
318936 2005 UQ_{124}	16.3	X	344.98457	221.07222	231.26898	9.61065	0.1007002	0.19292871	2.9662299	21	—	—
318937 2005 UC_{125}	16.5	X	346.69173	217.86906	233.14951	9.32061	0.0751318	0.19314423	2.9640230	21	—	—
318938 2005 UR_{132}	16.4	X	290.82464	270.43133	165.37712	11.73826	0.2711163	0.17758407	3.1347294	21	9 11.4	20.4
318939 2005 UD_{138}	17.4	X	24.36803	7.04320	34.43288	1.98905	0.1003862	0.19390246	2.9562909	21	—	—
318940 2005 UH_{141}	16.0	X	338.56699	206.71611	190.63114	7.16485	0.2680542	0.18332655	3.0689217	21	11 1.7	18.7
318941 2005 UR_{143}	16.6	X	289.88453	133.07249	130.52690	1.34115	0.0224319	0.21410609	2.7672604	21	3 5.9	20.4
318942 2005 UL_{149}	16.9	X	1.71022	151.84134	231.55422	3.18339	0.2040768	0.18619076	3.0373672	21	11 29.5	20.2
318943 2005 UM_{154}	17.4	X	317.84298	89.07089	345.77332	0.29494	0.2279296	0.18393233	3.0621797	21	11 6.3	20.4
318944 2005 UD_{161}	15.4	X	276.27950	13.47626	77.44662	10.26900	0.0463476	0.18258024	3.0772789	21	10 18.9	19.7
318945 2005 UB_{163}	16.6	X	259.62421	325.72143	312.18352	2.09374	0.1430507	0.21556325	2.7547757	21	2 3.1	20.9
318946 2005 UA_{173}	16.9	X	311.52069	109.21932	33.72232	2.32124	0.0577738	0.19598425	2.9353187	21	—	—
318947 2005 UL_{191}	16.7	X	99.89579	186.07937	247.93445	3.31370	0.0483163	0.21051516	2.7986406	21	2 17.9	20.4
318948 2005 UD_{195}	16.8	X	209.81299	218.59422	119.15334	1.56700	0.0736992	0.21402051	2.7679981	21	3 1.4	20.9
318949 2005 UD_{200}	16.2	X	325.26246	20.50673	218.68605	8.69056	0.1041570	0.21647270	2.7470546	21	3 5.1	19.9
318950 2005 UY_{213}	17.6	X	184.74680	205.04114	200.91302	22.01299	0.0911547	0.34770386	2.0029174	21	4 17.6	19.9
318951 2005 UP_{215}	15.5	X	307.73261	146.01158	216.90723	8.45763	0.1341653	0.23480352	2.6021539	21	7 23.2	18.7
318952 2005 UX_{216}	16.2	X	256.12687	134.87300	191.70502	7.26542	0.0640483	0.22237128	2.6982587	21	4 7.3	19.8
318953 2005 UT_{219}	16.8	X	220.63109	333.95879	339.65903	3.57957	0.0620761	0.21326096	2.7745665	21	2 11.7	20.9
318954 2005 UW_{223}	17.8	X	12.54175	298.19130	310.49019	2.16398	0.1287300	0.29175800	2.2514080	21	6 3.5	19.6
318955 2005 UV_{226}	16.4	X	337.08194	268.94240	220.39633	10.40695	0.0344477	0.19861723	2.9093196	21	—	—
318956 2005 UA_{231}	16.7	X	52.14216	264.34661	219.94638	3.57526	0.0133300	0.21137944	2.7910067	21	2 15.0	20.4
318957 2005 UE_{231}	16.5	X	112.85587	6.33221	63.89575	0.74058	0.0522557	0.21242300	2.7818585	21	3 3.9	20.3
318958 2005 UC_{244}	15.9	X	138.74256	17.27980	20.88822	5.65806	0.0342422	0.20922040	2.8101750	21	2 23.5	19.9
318959 2005 UT_{244}	16.3	X	202.60574	10.64302	18.90242	7.06702	0.0556071	0.21937114	2.7228040	21	4 25.3	20.4
318960 2005 UX_{245}	17.1	X	230.50509	335.04883	316.71819	3.45260	0.0406860	0.21103907	2.7940069	21	1 27.7	21.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
318961 2005 UV_{247}	17.0	X	184.47984	239.82257	46.75891	2.71076	0.0326289	0.20331246	2.8643542	21	—	—
318962 2005 UB_{249}	16.9	X	189.06140	129.57205	175.15937	1.99553	0.0533378	0.20439498	2.8542318	21	—	—
318963 2005 UW_{249}	16.6	X	44.89002	229.96567	55.12452	2.63174	0.1057087	0.23588576	2.5941887	21	9 24.9	19.7
318964 2005 UK_{254}	16.3	X	39.47379	77.54341	80.63570	4.74793	0.0372121	0.21401553	2.7680410	21	3 18.4	19.9
318965 2005 UY_{259}	16.3	X	225.76488	83.19543	202.47421	7.13932	0.2001328	0.21173139	2.7879130	21	1 10.8	21.1
318966 2005 UR_{275}	16.1	X	44.49920	139.75391	254.65810	10.86310	0.0594891	0.19508964	2.9442854	21	—	—
318967 2005 UO_{278}	15.9	X	320.80434	194.71346	46.17427	13.29354	0.0713404	0.21676853	2.7445548	21	3 16.3	19.7
318968 2005 UX_{283}	16.9	X	346.68438	329.05670	96.69655	3.48406	0.1162892	0.19031950	2.9932789	21	12 21.7	20.6
318969 2005 UF_{286}	16.5	X	119.06737	294.04358	61.97008	9.85198	0.0529181	0.20275457	2.8696060	21	—	—
318970 2005 UD_{290}	16.1	X	115.13957	328.20618	257.28833	7.01275	0.1381747	0.17688289	3.1430081	21	9 26.7	21.1
318971 2005 UN_{290}	16.5	X	257.55667	321.84441	323.18198	3.80099	0.0244841	0.21287066	2.7779569	21	2 20.3	20.3
318972 2005 UK_{292}	15.6	X	137.39680	195.62941	32.75306	11.57107	0.0619913	0.18166261	3.0876331	21	10 22.1	20.3
318973 2005 UQ_{293}	15.9	X	350.66303	196.01189	241.48677	9.17378	0.0923760	0.19161012	2.9798226	21	—	—
318974 2005 UF_{296}	16.5	X	345.59801	170.36646	238.57671	1.92398	0.1216176	0.18589016	3.0406408	21	11 27.6	20.1
318975 2005 UD_{297}	16.9	X	100.19344	151.65356	261.69488	0.95491	0.0698454	0.20638699	2.8358364	21	1 28.5	20.6
318976 2005 UK_{302}	17.3	X	215.12956	249.06740	135.21943	3.90980	0.1315360	0.28557251	2.2838020	21	4 28.2	20.6
318977 2005 UP_{310}	17.1	X	341.79430	15.82403	96.77766	3.29438	0.0128587	0.19847869	2.9106733	21	—	—
318978 2005 UK_{312}	15.7	X	17.76501	189.06337	51.29944	13.26104	0.1299722	0.22868462	2.6483665	21	6 3.7	18.6
318979 2005 UB_{319}	17.3	X	305.39440	246.99649	18.37289	2.58098	0.1363361	0.21971062	2.7199986	21	3 10.8	20.9
318980 2005 UJ_{320}	16.7	X	58.01764	76.50471	300.92309	0.76132	0.1184068	0.19482573	2.9469437	21	—	—
318981 2005 UA_{324}	16.9	X	292.59049	219.50872	62.97045	2.47509	0.0458934	0.22370530	2.6875210	21	3 29.7	20.4
318982 2005 UX_{337}	16.3	X	36.69954	215.05111	215.83581	11.97408	0.0771113	0.19983417	2.8974962	21	—	—
318983 2005 UF_{345}	16.5	X	305.61456	14.34087	90.26098	4.68448	0.0774308	0.18645759	3.0344688	21	12 7.4	20.4
318984 2005 UZ_{353}	17.7	X	288.29887	46.76101	338.68761	3.15611	0.1526574	0.29947731	2.2125517	21	7 26.9	19.8
318985 2005 UB_{355}	15.5	X	337.37091	271.94656	18.00063	12.88226	0.1819238	0.23113686	2.6296014	21	5 21.7	18.4
318986 2005 UR_{365}	16.4	X	250.88065	84.77171	200.62929	8.82285	0.1422709	0.21353825	2.7721641	21	2 1.5	21.0
318987 2005 UJ_{372}	17.0	X	75.38936	253.81373	9.12670	4.29637	0.0851523	0.23868875	2.5738392	21	10 2.5	20.5
318988 2005 UC_{378}	17.0	X	143.18498	175.26056	179.69918	1.81024	0.0843616	0.20525220	2.8462792	21	1 11.2	21.1
318989 2005 UX_{378}	16.9	X	359.55113	309.49284	163.43303	2.23687	0.0204820	0.20290427	2.8681945	21	—	—
318990 2005 UD_{388}	16.2	X	317.83389	248.43742	198.17199	8.19050	0.0548894	0.18937629	3.0032096	21	12 4.6	20.2
318991 2005 UT_{389}	17.3	X	12.12208	337.52371	165.72180	2.45929	0.0232339	0.20921970	2.8101813	21	1 19.2	21.0
318992 2005 UD_{395}	16.6	X	310.21031	200.23286	48.46699	6.06045	0.2037846	0.22267343	2.6958173	21	2 15.5	20.3
318993 2005 UU_{399}	16.4	X	150.11386	196.67904	202.18187	3.72825	0.0788755	0.21245613	2.7815692	21	3 11.2	20.4
318994 2005 UP_{406}	17.6	X	31.02548	300.57935	147.17624	2.51263	0.1913969	0.26290349	2.4132657	21	—	—
318995 2005 UX_{413}	16.2	X	207.06916	287.08916	57.76497	7.23240	0.0325564	0.21550651	2.7552591	21	3 10.4	20.2
318996 2005 UU_{414}	16.5	X	338.08162	182.91848	59.04354	6.82628	0.1475353	0.28354482	2.2946770	21	3 17.5	18.9
318997 2005 UA_{417}	16.6	X	34.06352	348.47406	92.24790	3.68187	0.0771890	0.20053780	2.8907146	21	—	—
318998 2005 UN_{419}	16.2	X	149.69342	345.43250	59.73079	7.37816	0.0394580	0.21548789	2.7554179	21	3 18.9	20.1
318999 2005 UB_{421}	17.0	X	334.80822	243.29173	232.74166	3.85883	0.0974519	0.19513944	2.9437845	21	—	—
319000 2005 UV_{429}	16.9	X	76.28802	117.85964	319.34477	1.17545	0.0465920	0.20595586	2.8397926	21	1 24.1	20.7
319001 2005 UG_{431}	17.5	X	297.53456	27.24005	68.22001	1.81340	0.1728299	0.18417821	3.0594537	21	11 2.9	20.9
319002 2005 UR_{434}	16.6	X	6.25830	0.91970	158.16053	1.70012	0.0139295	0.21008910	2.8024231	21	2 1.0	20.4
319003 2005 UE_{448}	15.7	X	322.10657	263.19843	22.21643	14.38961	0.1085123	0.22688917	2.6623197	21	4 30.1	19.0
319004 2005 UB_{476}	16.2	X	157.66577	140.06328	268.12647	4.68764	0.0286432	0.21878520	2.7276633	21	3 24.4	20.1
319005 2005 UY_{477}	16.5	X	334.59035	159.93586	357.15775	1.51411	0.0117772	0.20384967	2.8593197	21	—	—
319006 2005 UT_{478}	16.4	X	294.42548	28.87516	257.72828	1.96684	0.0799553	0.21953299	2.7214656	21	3 30.8	20.0
319007 2005 UN_{479}	17.0	X	343.75855	318.23319	30.13511	21.13627	0.0847825	0.37098488	1.9182207	21	10 8.5	18.3
319008 2005 UR_{482}	17.4	X	334.12599	344.18143	22.16623	21.24272	0.0741076	0.37174228	1.9156143	21	10 13.7	18.3
319009 2005 UP_{488}	16.5	X	188.03774	34.39841	306.61170	3.44632	0.0816202	0.21342635	2.7731330	21	2 9.9	20.6
319010 2005 UX_{488}	16.2	X	258.50274	328.51215	6.93591	14.74858	0.1067176	0.22531164	2.6747322	21	4 12.9	20.2
319011 2005 UE_{492}	16.0	X	332.19402	280.89163	138.66756	10.93665	0.1598506	0.18532837	3.0467824	21	11 21.9	19.6
319012 2005 UM_{497}	16.3	X	334.69800	342.66262	108.10062	7.16366	0.2338533	0.19156876	2.9802515	21	—	—
319013 2005 UR_{497}	15.8	X	290.07490	175.09458	192.88571	22.02072	0.0273233	0.23359385	2.6111297	21	7 17.8	19.8
319014 2005 UF_{500}	16.3	X	217.79067	250.49699	178.43488	14.09996	0.0517980	0.23083854	2.6318664	21	7 4.3	20.4
319015 2005 UE_{502}	16.6	X	55.79225	41.48811	346.69393	7.01841	0.1320227	0.19711496	2.9240828	21	—	—
319016 2005 UK_{509}	15.3	X	48.62273	334.05955	10.23887	11.63628	0.0654409	0.18611951	3.0381423	21	11 27.4	19.7
319017 2005 UU_{511}	15.8	X	257.73111	210.61006	247.61711	7.59289	0.0873800	0.17635673	3.1492564	21	9 19.6	20.4
319018 2005 UC_{512}	15.4	X	287.87453	206.58161	271.43163	11.41517	0.1516996	0.18007580	3.1057452	21	11 16.9	19.4
319019 2005 UT_{521}	16.8	X	17.84192	10.04912	147.36927	5.49044	0.0978645	0.21361531	2.7714973	21	2 10.1	20.0
319020 2005 UN_{530}	16.0	X	129.77983	80.55505	235.08017	7.36333	0.0520769	0.19731089	2.9221467	21	—	—
319021 2005 VA_{1}	17.1	X	266.37446	9.32090	49.69327	21.78087	0.0985020	0.36283816	1.9468272	21	9 13.5	19.6
319022 2005 VA_{5}	15.9	X	343.76425	67.41025	210.70635	9.91456	0.1874143	0.22982077	2.6396309	21	5 21.4	18.5
319023 2005 VF_{5}	17.0	X	297.51434	119.22747	314.69733	4.74845	0.2295950	0.17919957	3.1158610	21	9 24.0	20.7
319024 2005 VZ_{5}	16.7	X	151.96504	239.61184	270.32473	16.79580	0.0917184	0.35682412	1.9686413	21	8 2.9	19.5
319025 2005 VS_{14}	16.2	X	5.73855	344.78385	89.50017	6.49982	0.0945095	0.19287453	2.9667854	21	—	—
319026 2005 VM_{18}	17.1	X	224.15624	45.02940	228.07559	1.20584	0.0302682	0.20624316	2.8371546	21	—	—
319027 2005 VQ_{18}	17.0	X	350.31920	35.04495	29.28166	2.69166	0.1142548	0.19055306	2.9908325	21	12 25.6	20.5
319028 2005 VL_{19}	16.4	X	201.05302	131.88004	204.51075	4.82396	0.1713585	0.21507000	2.7589860	21	2 17.7	21.0
319029 2005 VL_{25}	16.3	X	74.08679	38.10087	332.71562	4.79616	0.0765445	0.19728488	2.9224035	21	—	—
319030 2005 VF_{26}	16.5	X	71.14588	231.44163	225.64836	3.97944	0.1142148	0.21257898	2.7804974	21	2 15.7	19.8
319031 2005 VV_{39}	16.5	X	249.32614	104.89771	248.31624	4.79082	0.1175396	0.22590159	2.6700733	21	4 26.4	20.4
319032 2005 VQ_{40}	16.2	X	215.66826	246.83084	110.25119	7.09938	0.0568203	0.21915337	2.7246075	21	4 3.6	20.2
319033 2005 VD_{44}	16.8	X	218.89289	179.42949	156.22064	12.64848	0.2528132	0.22532853	2.6745985	21	3 3.6	21.5
319034 2005 VZ_{49}	17.0	X	26.19868	164.63617	322.87637	4.12354	0.0467943	0.27071692	2.3666050	21	1 2.6	19.7
319035 2005 VB_{52}	16.7	X	320.79374	274.47797	138.59338	6.33247	0.2838460	0.18187256	3.0852564	21	10 9.3	19.6
319036 2005 VN_{60}	16.6	X	173.75392	50.25404	325.59297	4.33049	0.1535484	0.21686960	2.7437019	21	3 12.2	21.0
319037 2005 VP_{66}	16.9	X	220.22840	199.87698	147.17906	2.40856	0.0863949	0.21901720	2.7257367	21	3 23.1	21.0
319038 2005 VD_{69}	17.0	X	308.80246	341.50920	143.56616	2.89090	0.0835546	0.19071705	2.9891178	21	—	—
319039 2005 VG_{70}	16.2	X	1.99821	228.21977	169.19686	3.85361	0.1259794	0.18628549	3.0363374	21	12 10.0	19.9
319040 2005 VH_{71}	17.3	X	330.86603	352.84470	95.19178	4.50849	0.1669708	0.18803314	3.0174943	21	12 24.7	20.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
319041 2005 VY_{71}	16.6	X	194.62963	131.14719	208.37644	5.40010	0.1289268	0.21161207	2.7889609	21	2 15.0	21.0
319042 2005 VU_{75}	16.0	X	339.70447	58.04977	5.46766	8.77437	0.1041887	0.18882343	3.0090688	21	12 5.2	19.8
319043 2005 VT_{95}	16.7	X	80.56342	262.89453	162.18659	2.29996	0.0531028	0.20317219	2.8656724	21	1 15.5	20.6
319044 2005 VZ_{98}	16.1	X	359.48773	209.18798	157.19368	3.70414	0.1214482	0.18360396	3.0658297	21	10 26.9	19.7
319045 2005 VF_{104}	16.8	X	214.90456	344.35809	311.51427	4.21685	0.1346034	0.21090981	2.7951483	21	1 15.6	21.4
319046 2005 VA_{109}	16.8	X	86.76329	168.59847	229.53919	1.21042	0.0717316	0.20284627	2.8687412	21	—	—
319047 2005 VQ_{110}	16.9	X	238.90866	174.21072	207.24127	3.60014	0.0779723	0.22695658	2.6617925	21	5 26.7	20.6
319048 2005 VH_{114}	17.0	X	139.71791	229.76710	239.67143	4.57840	0.1133544	0.28341352	2.2953857	21	5 29.5	20.0
319049 2005 VS_{123}	16.1	X	82.37711	16.51860	79.93731	5.47668	0.0292074	0.20964088	2.8064161	21	2 25.1	19.9
319050 2005 VM_{126}	17.2	X	25.47511	55.43876	177.87167	3.59615	0.1303999	0.23314738	2.6144621	21	6 10.1	19.9
319051 2005 VO_{130}	16.9	X	25.74053	78.90496	139.08605	6.17627	0.2654212	0.22864606	2.6486642	21	5 31.9	18.9
319052 2005 VT_{130}	17.0	X	58.28763	297.80865	161.37108	6.54641	0.0149552	0.21126847	2.7919840	21	1 23.1	20.8
319053 2005 VB_{134}	16.3	X	47.78200	196.74245	177.28901	15.55175	0.1031617	0.19210886	2.9746631	21	—	—
319054 2005 WT_{7}	17.8	X	340.18161	229.55048	150.81447	4.70721	0.1613997	0.30667791	2.1777819	21	11 11.9	19.4
319055 2005 WZ_{7}	15.8	X	310.25478	237.50045	246.92314	8.54610	0.0466449	0.19031402	2.9933364	21	—	—
319056 2005 WV_{11}	16.4	X	236.95599	52.06525	232.50608	4.15464	0.0884868	0.20850093	2.8166360	21	1 23.1	20.8
319057 2005 WT_{13}	16.4	X	1.33020	347.75280	65.79027	3.50658	0.0794274	0.18830390	3.0146010	21	12 24.8	20.2
319058 2005 WE_{16}	16.2	X	326.72696	237.59713	246.40619	9.18872	0.0590964	0.19258278	2.9697809	21	—	—
319059 2005 WF_{16}	16.9	X	327.94888	188.87452	246.66686	5.60189	0.1827608	0.18508119	3.0494945	21	12 1.4	20.2
319060 2005 WZ_{17}	16.0	X	63.95808	283.27627	72.63059	11.90435	0.0963320	0.18918390	3.0052454	21	—	—
319061 2005 WV_{20}	16.3	X	100.93042	264.88156	51.55806	11.25526	0.0730309	0.18926598	3.0043764	21	12 27.9	20.9
319062 2005 WZ_{24}	16.5	X	29.44933	93.77776	274.78700	6.16241	0.0631432	0.18544242	3.0455331	21	12 4.8	20.5
319063 2005 WT_{26}	16.5	X	102.41440	314.64334	56.00502	2.83599	0.0769596	0.19815597	2.9138327	21	—	—
319064 2005 WL_{27}	16.8	X	274.75670	182.29776	261.35204	3.48875	0.0480864	0.24003742	2.5641893	21	10 8.4	20.1
319065 2005 WE_{28}	16.6	X	225.71326	39.61439	266.25668	3.15871	0.0883458	0.20905822	2.8116282	21	2 6.2	20.8
319066 2005 WC_{29}	16.4	X	47.45265	294.98532	56.34244	10.82971	0.0848666	0.18612300	3.0381044	21	12 9.1	20.6
319067 2005 WJ_{34}	15.8	X	30.83714	42.40417	38.74159	5.30581	0.0946482	0.19691837	2.9260286	21	—	—
319068 2005 WP_{37}	16.7	X	147.59253	277.58784	95.45845	3.20216	0.1050417	0.20610153	2.8384543	21	2 10.4	20.8
319069 2005 WA_{39}	16.0	X	6.20454	178.57120	247.16046	9.05580	0.0825166	0.19031495	2.9933266	21	—	—
319070 2005 WO_{43}	15.7	X	53.36653	32.56040	63.32483	7.11506	0.0602482	0.20265617	2.8705349	21	1 19.1	19.4
319071 2005 WT_{54}	15.3	X	277.11680	16.55528	103.19560	18.29908	0.1905291	0.17973017	3.1097255	21	11 7.3	19.7
319072 2005 WY_{56}	16.9	X	304.11166	292.63153	3.54735	2.71398	0.0352144	0.21981830	2.7191102	21	5 2.4	20.5
319073 2005 WC_{57}	17.0	X	299.73278	352.16312	61.49172	23.05225	0.0969858	0.36926329	1.9241782	21	11 2.2	18.5
319074 2005 WD_{81}	16.0	X	33.06260	313.37862	71.82793	11.10617	0.0889263	0.18780015	3.0199895	21	—	—
319075 2005 WE_{87}	15.7	X	280.40235	188.79818	278.17267	8.32049	0.0322524	0.17821527	3.1273232	21	11 7.3	20.1
319076 2005 WR_{87}	15.5	X	297.89440	319.08766	92.60312	27.94993	0.2207469	0.17302553	3.1895488	21	9 9.6	20.1
319077 2005 WQ_{89}	15.3	X	251.47703	11.74901	79.70785	29.04306	0.1676389	0.17135129	3.2102915	21	9 10.2	20.6
319078 2005 WM_{93}	17.2	X	330.50459	243.43947	250.49229	2.83969	0.1267107	0.25594782	2.4567922	21	—	—
319079 2005 WD_{94}	16.6	X	120.59990	162.55516	220.86769	1.26386	0.0775263	0.20316650	2.8657259	21	1 18.9	20.5
319080 2005 WF_{98}	16.9	X	274.74762	241.35032	93.33785	3.50829	0.1254437	0.22803549	2.6533900	21	5 2.8	20.6
319081 2005 WA_{113}	15.5	X	354.15197	304.69624	95.38565	15.76105	0.2461340	0.18479591	3.0526322	21	12 12.4	18.5
319082 2005 WJ_{113}	15.6	X	347.94419	254.06875	209.21275	12.12202	0.0499825	0.19346576	2.9607380	21	—	—
319083 2005 WH_{115}	15.5	X	224.55810	323.71777	278.34324	11.08126	0.1584796	0.18930093	3.0040066	21	—	—
319084 2005 WZ_{118}	16.0	X	338.63566	198.29699	241.64609	9.04693	0.0824711	0.18904549	3.0067120	21	12 24.8	19.8
319085 2005 WD_{127}	16.9	X	329.21661	3.14291	75.53683	1.00750	0.0562418	0.18741367	3.0241398	21	12 9.4	20.9
319086 2005 WL_{127}	16.0	X	143.36126	193.19469	65.16569	2.85820	0.1349299	0.18749985	3.0232132	21	12 4.3	20.8
319087 2005 WN_{127}	16.9	X	131.72064	122.06151	236.58581	1.14059	0.0790134	0.20304203	2.8668970	21	1 2.4	20.9
319088 2005 WS_{135}	16.5	X	323.75144	238.17153	65.89591	6.76010	0.2323999	0.22858151	2.6491628	21	5 13.3	19.4
319089 2005 WA_{140}	15.8	X	84.57011	82.50229	262.17318	10.04544	0.0602935	0.18946975	3.0022219	21	—	—
319090 2005 WQ_{140}	16.2	X	50.19506	74.71945	284.97977	7.37146	0.1123800	0.18310507	3.0713959	21	12 26.8	20.5
319091 2005 WR_{146}	16.6	X	90.74633	348.76918	322.26855	2.50035	0.0378357	0.18505563	3.0497754	21	12 5.9	20.9
319092 2005 WE_{147}	17.1	X	294.64863	178.02960	339.49097	1.11451	0.0791988	0.19154940	2.9804523	21	—	—
319093 2005 WH_{148}	16.2	X	236.50487	240.60862	106.44275	7.03633	0.0604002	0.22089129	2.7102976	21	4 14.3	20.2
319094 2005 WU_{149}	16.0	X	25.66492	220.02168	62.19010	15.62691	0.0925381	0.23141899	2.6274637	21	8 26.5	19.5
319095 2005 WG_{150}	16.8	X	351.15397	258.47980	27.20099	4.25423	0.0436394	0.22584456	2.6705228	21	6 25.3	20.1
319096 2005 WD_{157}	15.6	X	312.26695	160.09826	245.81762	9.61907	0.2095888	0.17613222	3.1519320	21	9 12.0	19.5
319097 2005 WK_{160}	16.3	X	1.71547	68.67841	322.42837	4.07372	0.1623456	0.18455731	3.0552626	21	12 3.7	19.8
319098 2005 WS_{164}	17.1	X	331.76474	270.67103	172.02930	0.75969	0.1140744	0.18824049	3.0152780	21	12 18.7	20.7
319099 2005 WZ_{165}	16.3	X	318.00867	59.95240	74.51564	5.63948	0.0470393	0.19415185	2.9537588	21	—	—
319100 2005 WN_{166}	16.1	X	8.25547	310.62006	111.89591	2.99258	0.0717046	0.18653427	3.0336371	21	—	—
319101 2005 WZ_{171}	16.7	X	140.74003	115.87576	195.41434	1.62529	0.0672764	0.19619222	2.9332440	21	—	—
319102 2005 WP_{173}	17.2	X	131.78525	234.30202	195.31117	2.13457	0.1550789	0.27527424	2.3404121	21	4 1.1	20.3
319103 2005 WE_{183}	17.1	X	240.73049	72.56083	294.42941	5.17485	0.1303738	0.28753284	2.2734099	21	4 28.2	20.4
319104 2005 WJ_{191}	15.8	X	204.55850	355.40318	351.21431	15.88741	0.1498730	0.21727533	2.7402853	21	3 7.0	20.1
319105 2005 WG_{197}	15.0	X	233.67163	268.64884	274.70616	14.29862	0.1884735	0.17637960	3.1489842	21	11 23.8	19.9
319106 2005 WK_{201}	16.3	X	151.93227	104.28960	266.86623	3.24107	0.0800394	0.20900370	2.8121171	21	2 7.7	20.3
319107 2005 WV_{202}	16.5	X	260.60428	202.72457	335.92334	1.72354	0.0669667	0.18670434	3.0317945	21	—	—
319108 2005 WE_{211}	15.5	X	43.26529	75.21417	302.82566	3.60387	0.0538978	0.17946677	3.1127675	21	12 31.5	19.9
319109 2005 XG	17.4	X	223.70626	274.58791	50.06051	3.26259	0.1883258	0.28044896	2.3115333	21	2 18.3	21.1
319110 2005 XW_{13}	15.7	X	161.86996	40.53282	229.51408	8.40174	0.1000416	0.18867620	3.0106341	21	—	—
319111 2005 XU_{14}	16.0	X	260.94066	55.90432	99.48786	16.15070	0.1160324	0.18339998	3.0681025	21	12 5.5	20.3
319112 2005 XA_{15}	16.8	X	67.00963	283.44975	134.86587	5.98830	0.1135355	0.26131197	2.4230545	21	—	—
319113 2005 XY_{18}	16.0	X	292.72311	6.22406	124.36462	3.80417	0.0488178	0.18467494	3.0539651	21	12 23.5	20.0
319114 2005 XC_{27}	17.4	X	85.33869	71.78625	294.72134	2.49778	0.1569921	0.25598992	2.4565228	21	—	—
319115 2005 XW_{33}	15.8	X	69.39967	2.73258	258.01736	14.04665	0.0843492	0.23268824	2.6179002	21	9 13.2	19.6
319116 2005 XF_{63}	16.7	X	255.30262	250.31887	284.56078	3.27333	0.1000176	0.18671528	3.0316761	21	12 22.7	20.7
319117 2005 XU_{63}	15.5	X	356.19534	340.52561	34.85686	8.56009	0.3645185	0.18361571	3.0656989	21	11 25.3	17.8
319118 2005 XH_{65}	15.3	X	5.60499	258.80877	250.50207	16.02833	0.0921356	0.20075803	2.8886002	21	1 11.6	19.1
319119 2005 XP_{65}	17.7	X	186.21190	55.16133	66.21683	1.01089	0.1719489	0.29090789	2.2557920	21	8 5.1	21.0
319120 2005 XV_{73}	15.4	X	187.48500	213.93394	69.34128	10.63966	0.0101779	0.19273505	2.9682165	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
319121 2005 XD_{76}	16.6	X	269.25472	352.40009	299.05741	1.69353	0.0505998	0.21206355	2.7850011	21	3 11.1	20.5
319122 2005 XL_{76}	15.1	X	281.80832	84.25502	62.76720	17.21554	0.0445186	0.18229414	3.0804979	21	12 28.2	19.4
319123 2005 XR_{77}	16.0	X	359.94072	355.09716	50.28299	8.38045	0.0537612	0.18600411	3.0393988	21	12 9.3	20.1
319124 2005 XR_{80}	15.9	X	292.72882	72.63496	10.18675	20.40750	0.3406477	0.17552617	3.1591831	21	9 16.9	19.9
319125 2005 XR_{83}	15.6	X	300.50732	339.64835	82.19413	19.40746	0.1960846	0.17436278	3.1732201	21	10 1.5	19.9
319126 2005 XP_{90}	16.4	X	319.63753	332.57947	69.53203	6.13664	0.2563790	0.17603765	3.1530608	21	9 24.0	19.6
319127 2005 XQ_{105}	16.0	X	14.09743	307.11426	44.24606	1.01045	0.2141029	0.17207701	3.2012590	21	11 7.5	19.6
319128 2005 XR_{116}	16.2	X	16.83870	208.00430	100.32689	12.85747	0.1425385	0.23250378	2.6192847	21	9 22.9	19.3
319129 2005 YC_{2}	16.1	X	78.12685	312.26664	35.13762	5.75016	0.0870843	0.19068621	2.9894402	21	—	—
319130 2005 YZ_{2}	15.8	X	303.46400	107.99713	340.84986	17.52165	0.2637510	0.17966378	3.1104915	21	10 12.7	19.7
319131 2005 YN_{6}	16.3	X	299.79809	72.70266	51.04499	9.01209	0.2724759	0.18336717	3.0684685	21	11 29.1	19.5
319132 2005 YY_{7}	16.0	X	34.63030	81.83157	293.50449	9.47915	0.0200434	0.17982035	3.1086858	21	12 13.1	20.3
319133 2005 YK_{8}	16.2	X	200.11591	249.66760	300.49445	7.62657	0.0442332	0.17524049	3.1626156	21	11 9.9	21.0
319134 2005 YV_{8}	15.9	X	3.18113	53.92777	17.69931	8.51217	0.1285612	0.18699178	3.0286868	21	—	—
319135 2005 YB_{11}	15.9	X	12.37836	295.99053	84.85023	13.73028	0.1005129	0.18188789	3.0850831	21	12 1.9	19.9
319136 2005 YJ_{11}	16.1	X	133.73342	27.48342	285.93167	6.81997	0.0050415	0.18953357	3.0015479	21	—	—
319137 2005 YM_{13}	16.4	X	284.82396	276.59146	112.78719	6.56172	0.1424939	0.22868494	2.6483640	21	7 26.2	19.6
319138 2005 YR_{14}	16.3	X	287.73427	166.72642	298.04272	3.98946	0.1081454	0.17714661	3.1398880	21	11 5.3	20.4
319139 2005 YP_{15}	16.3	X	287.37400	201.85124	290.68672	3.75619	0.1191088	0.18065199	3.0991378	21	12 9.9	20.3
319140 2005 YX_{18}	16.9	X	31.62222	218.79705	253.91871	1.03795	0.0204990	0.20259155	2.8711453	21	1 8.5	20.6
319141 2005 YJ_{21}	17.8	X	22.50574	242.18602	290.50072	2.02180	0.1128504	0.26778015	2.3838767	21	2 25.4	19.9
319142 2005 YG_{23}	16.7	X	267.71942	331.13990	109.92832	3.06695	0.1737540	0.16992602	3.2282176	21	9 2.4	21.4
319143 2005 YT_{23}	15.6	X	199.91196	181.92905	104.50642	6.00203	0.0134451	0.19384609	2.9568640	21	—	—
319144 2005 YJ_{24}	16.3	X	134.63001	237.55714	111.52342	3.38726	0.1433837	0.19619416	2.9332247	21	1 4.0	20.6
319145 2005 YZ_{26}	17.2	X	353.80080	236.46995	303.09860	5.07191	0.0602842	0.26424362	2.4050994	21	1 25.5	20.1
319146 2005 YA_{28}	16.1	X	286.65927	113.34168	55.69346	2.08913	0.1136644	0.18593268	3.0401772	21	—	—
319147 2005 YU_{28}	17.4	X	193.68012	285.82643	108.79396	3.95290	0.0946230	0.27723438	2.3293674	21	4 20.2	20.7
319148 2005 YL_{30}	15.6	X	319.75940	23.13553	83.65372	11.04369	0.0641533	0.18661319	3.0327817	21	12 30.6	19.6
319149 2005 YU_{39}	15.3	X	83.45256	11.21860	299.80008	14.15457	0.0990461	0.17719939	3.1392644	21	12 3.0	20.1
319150 2005 YF_{53}	15.3	X	148.49929	326.36093	298.28065	15.71043	0.1671216	0.17790200	3.1309935	21	12 15.5	20.6
319151 2005 YM_{56}	16.2	X	359.25213	97.32788	315.00786	6.26098	0.0304872	0.18057411	3.1000287	21	12 14.7	20.4
319152 2005 YX_{56}	16.5	X	288.12811	171.04917	284.82081	12.80778	0.1350787	0.17829917	3.1263422	21	10 17.9	20.9
319153 2005 YP_{61}	17.2	X	93.18962	122.28654	292.78113	5.58867	0.1226218	0.26382416	2.4076481	21	1 14.9	19.8
319154 2005 YK_{65}	16.2	X	1.29993	1.71556	88.40747	2.55015	0.1014357	0.18911236	3.0060032	21	—	—
319155 2005 YN_{66}	15.2	X	98.20355	168.57892	103.26699	18.84477	0.0587029	0.17245722	3.1965521	21	11 6.4	20.2
319156 2005 YK_{67}	16.7	X	296.09345	131.63067	298.21901	9.13280	0.2000634	0.17433823	3.1735179	21	9 17.5	20.8
319157 2005 YG_{69}	15.9	X	125.11633	251.06733	56.84735	2.81539	0.1538953	0.18558710	3.0439501	21	—	—
319158 2005 YJ_{75}	15.5	X	240.61979	105.35626	93.03534	18.14386	0.0713037	0.18519454	3.0482501	21	—	—
319159 2005 YT_{75}	16.9	X	310.28690	121.61651	310.72754	5.02236	0.0713073	0.17761793	3.1343309	21	10 31.1	21.1
319160 2005 YV_{77}	15.8	X	182.09582	163.90829	91.79782	7.01243	0.0946651	0.18507319	3.0495824	21	—	—
319161 2005 YB_{80}	15.7	X	222.84253	314.31306	295.42536	8.32459	0.0804335	0.18981433	2.9985874	21	—	—
319162 2005 YX_{82}	17.5	X	162.78163	118.03604	234.24795	1.34120	0.2131378	0.26550394	2.3974822	21	1 31.5	21.2
319163 2005 YQ_{83}	15.8	X	234.55506	290.07582	271.42344	3.94164	0.1007924	0.18206656	3.0830643	21	12 28.6	20.2
319164 2005 YB_{84}	16.2	X	193.03158	41.25557	179.60997	2.07938	0.0397459	0.17978186	3.1091294	21	12 12.0	20.6
319165 2005 YJ_{85}	15.7	X	64.20203	210.53994	103.87385	10.57384	0.0797499	0.17546813	3.1598797	21	11 16.4	20.3
319166 2005 YJ_{88}	16.0	X	348.77757	196.82715	116.07326	12.87002	0.1771517	0.22483087	2.6785438	21	7 27.2	18.3
319167 2005 YU_{92}	15.3	X	186.32347	142.19150	117.80506	17.61211	0.1756812	0.18364857	3.0653332	21	—	—
319168 2005 YY_{99}	16.5	X	275.59577	68.01191	13.41217	2.96385	0.1249313	0.17260738	3.1946979	21	9 19.5	20.9
319169 2005 YR_{108}	15.8	X	15.48826	306.94664	116.58514	11.88252	0.0280967	0.18612462	3.0380868	21	—	—
319170 2005 YW_{108}	16.2	X	6.80330	277.43403	132.09627	2.54395	0.1232589	0.18375299	3.0641717	21	12 31.1	20.1
319171 2005 YS_{110}	16.3	X	359.69657	124.09354	263.00432	6.78469	0.1494628	0.17912425	3.1167344	21	11 22.6	19.9
319172 2005 YR_{111}	15.8	X	130.74419	127.57944	129.43116	6.32557	0.1037014	0.17561404	3.1581293	21	11 20.5	20.8
319173 2005 YS_{111}	15.9	X	168.28889	100.47668	164.32192	3.06875	0.0358631	0.18433056	3.0577677	21	—	—
319174 2005 YQ_{114}	15.8	X	196.97858	239.13533	312.40974	7.91034	0.0416814	0.17498870	3.1656487	21	11 7.8	20.6
319175 2005 YE_{115}	16.0	X	227.18490	73.11208	80.86026	5.39379	0.1204928	0.17350625	3.1836548	21	10 23.7	20.8
319176 2005 YR_{116}	17.1	X	119.38634	288.85801	83.01028	3.83607	0.2139557	0.26086080	2.4258475	21	1 10.7	20.0
319177 2005 YW_{117}	17.2	X	50.56269	270.02338	45.02122	1.14367	0.1153637	0.23582878	2.5946066	21	11 11.9	20.7
319178 2005 YU_{118}	16.0	X	273.58635	66.23640	115.90930	5.47797	0.0854261	0.18667307	3.0321332	21	—	—
319179 2005 YH_{120}	17.1	X	336.90376	205.68803	169.48996	1.60205	0.1096516	0.23613469	2.5923652	21	10 7.9	19.8
319180 2005 YU_{124}	16.1	X	325.73087	37.54546	42.97016	4.01113	0.1970780	0.18256587	3.0774404	21	12 2.0	19.1
319181 2005 YH_{125}	16.7	X	138.58922	26.10557	74.17596	4.66987	0.0549133	0.21432651	2.7653628	21	5 13.9	20.6
319182 2005 YO_{129}	17.3	X	138.50967	215.55667	64.57596	0.88764	0.0757604	0.24679385	2.5171735	21	—	—
319183 2005 YD_{131}	15.8	X	257.13468	358.43320	117.75896	7.63705	0.0971972	0.17243004	3.1968881	21	10 16.4	20.4
319184 2005 YY_{131}	15.6	X	199.62201	309.42019	302.55855	15.61884	0.1857226	0.18167440	3.0874994	21	—	—
319185 2005 YZ_{133}	15.3	X	325.36734	324.08108	74.41224	10.37641	0.0661980	0.17392859	3.1784989	21	10 16.9	19.6
319186 2005 YW_{138}	16.3	X	174.80964	338.96820	287.96974	3.20421	0.1117546	0.18459904	3.0548022	21	—	—
319187 2005 YL_{144}	15.8	X	156.09577	278.71778	312.97990	8.79713	0.2283382	0.16956076	3.2328519	21	11 10.3	21.6
319188 2005 YS_{144}	15.2	X	233.64743	75.33205	112.38823	11.74424	0.0490300	0.17930628	3.1146247	21	12 18.3	19.7
319189 2005 YZ_{144}	16.6	X	260.83302	103.70035	74.17104	1.99196	0.1213271	0.18158142	3.0885533	21	12 29.3	20.8
319190 2005 YG_{145}	15.3	X	243.85971	208.47789	302.69952	9.17034	0.0531303	0.17800476	3.1297884	21	11 12.5	19.9
319191 2005 YE_{149}	16.2	X	293.66216	139.99926	311.42925	8.75387	0.1306633	0.17687487	3.1431031	21	10 22.3	20.5
319192 2005 YA_{150}	17.7	X	282.81849	359.11724	21.64548	3.33400	0.1851494	0.29183733	2.2509999	21	7 4.5	20.4
319193 2005 YV_{154}	14.8	X	5.18465	32.88562	55.07154	3.62340	0.2215078	0.12412447	3.9801347	21	—	—
319194 2005 YR_{156}	17.0	X	353.80821	199.50358	149.66086	2.98378	0.1247076	0.23571419	2.5954474	21	10 2.4	19.7
319195 2005 YW_{160}	16.6	X	314.28082	188.76829	259.15235	7.94097	0.1926931	0.18118375	3.0930710	21	11 18.8	20.0
319196 2005 YU_{164}	15.7	X	314.64274	142.91536	339.81443	7.25848	0.0920092	0.18552748	3.0446021	21	—	—
319197 2005 YF_{165}	15.9	X	357.96905	9.47272	64.68716	9.92534	0.0818401	0.18947771	3.0021378	21	—	—
319198 2005 YM_{167}	16.4	X	342.12168	261.33089	212.14931	2.27466	0.1255805	0.18803601	3.0174635	21	—	—
319199 2005 YY_{171}	15.8	X	1.23529	113.42452	342.08413	7.00985	0.1036269	0.18836740	3.0139235	21	—	—
319200 2005 YU_{175}	15.3	X	208.51234	273.92436	301.81551	14.69577	0.0791393	0.18046813	3.1012423	21	12 19.9	20.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
319201 2005 YK_{181}	15.7	X	245.96504	100.57150	29.86062	13.60886	0.2350937	0.17421424	3.1750236	21	10 3.4	20.6
319202 2005 YM_{186}	14.9	X	292.75802	345.00117	121.64309	28.27756	0.0996207	0.17590913	3.1545964	21	11 26.9	19.6
319203 2005 YC_{191}	15.9	X	259.08574	220.83001	321.31480	3.86541	0.0954657	0.18231296	3.0802858	21	—	—
319204 2005 YH_{191}	15.8	X	236.47331	233.96203	312.65660	6.87592	0.1285279	0.17848059	3.1242233	21	12 8.5	20.4
319205 2005 YU_{194}	15.7	X	251.39256	228.67555	268.81414	8.68473	0.1852878	0.17673909	3.1447127	21	10 17.2	20.4
319206 2005 YH_{198}	16.6	X	34.29996	182.48797	102.05809	3.02729	0.1904287	0.22735534	2.6586793	21	9 20.4	19.6
319207 2005 YR_{198}	15.4	X	20.40371	239.59261	113.74594	17.18956	0.0758697	0.17545584	3.1600272	21	11 10.8	19.9
319208 2005 YY_{201}	15.6	X	313.78961	296.83782	117.18669	9.94737	0.0706221	0.17358072	3.1827441	21	10 19.5	19.9
319209 2005 YK_{205}	15.4	X	250.73195	63.75533	122.29196	10.88394	0.0669530	0.18239930	3.0793138	21	—	—
319210 2005 YU_{207}	15.4	X	342.31578	293.83565	113.77835	10.62291	0.0641067	0.17618948	3.1512491	21	11 20.2	19.7
319211 2005 YN_{211}	16.3	X	343.79950	202.16918	190.67844	14.96437	0.1378289	0.24367927	2.5385769	21	11 19.8	19.1
319212 2005 YH_{214}	15.4	X	257.22698	190.75462	352.00487	11.53889	0.0678498	0.18482639	3.0522966	21	—	—
319213 2005 YA_{227}	15.5	X	168.54089	169.82709	86.30523	10.59334	0.1030069	0.18624308	3.0367984	21	12 24.9	20.1
319214 2005 YF_{232}	16.1	X	69.65175	76.19652	290.63967	8.39966	0.1168893	0.18980532	2.9986823	21	—	—
319215 2005 YP_{236}	15.9	X	99.31296	31.72526	281.66450	7.79769	0.0653607	0.18084251	3.0969607	21	12 20.8	20.5
319216 2005 YM_{239}	16.4	X	256.35920	72.88661	123.86124	3.80348	0.1021016	0.18605633	3.0388300	21	—	—
319217 2005 YX_{244}	15.7	X	255.91013	238.84685	302.33414	14.77710	0.1660818	0.18159133	3.0884410	21	12 21.7	20.2
319218 2005 YY_{244}	16.1	X	155.25360	154.45343	103.15466	2.75132	0.1468380	0.17827930	3.1265744	21	12 12.8	21.0
319219 2005 YM_{261}	16.2	X	194.70397	172.61676	87.17838	4.66751	0.1208034	0.19003131	2.9963044	21	—	—
319220 2005 YF_{262}	15.9	X	344.72583	336.75498	121.97814	3.46758	0.0499713	0.18723968	3.0260130	21	—	—
319221 2005 YD_{264}	17.4	X	342.07125	209.53489	77.87905	4.22242	0.1905701	0.28177549	2.3042729	21	5 26.8	18.9
319222 2005 YZ_{272}	15.7	X	45.09781	207.26128	146.35934	10.10173	0.1247901	0.17880540	3.1204385	21	12 15.0	20.1
319223 2005 YW_{274}	15.5	X	315.21453	136.89819	329.01098	9.19246	0.0502425	0.18037664	3.1022909	21	12 22.8	19.7
319224 2005 YV_{281}	16.5	X	328.65868	23.24019	94.82924	4.47512	0.0761983	0.19064445	2.9898767	21	—	—
319225 2005 YX_{290}	16.0	X	252.08763	106.59365	149.55694	6.52652	0.0445125	0.19529907	2.9421801	21	1 10.9	20.3
319226 2006 AH_{8}	15.1	X	269.73527	102.23203	50.73081	26.57544	0.3694377	0.17587829	3.1549651	21	11 6.4	19.5
319227 Erichbär	15.5	X	304.44378	110.22402	18.97301	10.35922	0.0904457	0.18299429	3.0726353	21	—	—
319228 2006 AS_{8}	17.6	X	7.78463	319.48104	231.62652	1.78664	0.1418973	0.26666200	2.3905360	21	2 22.8	19.9
319229 2006 AD_{10}	16.1	X	258.74747	175.44331	238.26474	7.38243	0.1251198	0.22828799	2.6514331	21	7 24.3	20.0
319230 2006 AH_{15}	17.3	X	51.28023	234.33553	136.71435	2.46578	0.1349186	0.24653869	2.5189101	21	—	—
319231 2006 AN_{17}	16.6	X	256.93691	303.75034	213.70671	1.07268	0.0432597	0.18018967	3.1044366	21	12 10.3	21.0
319232 2006 AO_{23}	16.3	X	264.64579	139.70992	309.49423	11.03932	0.0864441	0.16900782	3.2398993	21	9 15.0	21.0
319233 2006 AV_{23}	15.1	X	218.06575	62.94431	144.70182	26.40537	0.1279031	0.17465601	3.1696674	21	12 17.6	20.3
319234 2006 AT_{24}	16.5	X	297.49458	139.42351	301.90116	3.68284	0.1253059	0.17700956	3.1415085	21	10 18.3	20.5
319235 2006 AE_{27}	17.0	X	108.37245	325.21899	125.20395	7.35794	0.0957709	0.26872868	2.3782639	21	3 25.8	20.0
319236 2006 AM_{30}	15.3	X	263.53909	351.16231	141.78426	16.21505	0.2170401	0.17465040	3.1697353	21	10 30.1	20.0
319237 2006 AO_{38}	16.8	X	81.16537	223.51466	98.54667	5.48091	0.2216856	0.24600056	2.5225822	21	—	—
319238 2006 AV_{39}	16.6	X	198.64643	291.85766	300.67581	3.21949	0.0975659	0.18151398	3.0893184	21	12 26.9	21.2
319239 2006 AY_{40}	17.0	X	51.58294	254.01525	107.70983	5.79245	0.1850400	0.24680896	2.5170708	21	—	—
319240 2006 AE_{41}	16.6	X	285.52996	86.57964	70.69378	2.61059	0.0775068	0.18326796	3.0695757	21	—	—
319241 2006 AE_{42}	15.5	X	0.05752	111.31610	291.66397	9.06376	0.0712861	0.17849639	3.1240388	21	12 6.7	19.6
319242 2006 AG_{45}	16.3	X	309.51604	233.19367	136.39271	5.43859	0.2152338	0.23276791	2.6173028	21	7 25.5	18.8
319243 2006 AL_{47}	15.2	X	190.22821	145.27608	83.78654	9.95895	0.0420793	0.18083798	3.0970124	21	12 18.3	19.7
319244 2006 AY_{48}	16.2	X	242.88217	58.90959	121.99650	2.81569	0.1011738	0.18124052	3.0924251	21	12 13.8	20.5
319245 2006 AK_{50}	16.2	X	245.47243	21.09242	101.88764	10.62182	0.0410631	0.17309383	3.1887097	21	10 20.1	20.9
319246 2006 AB_{51}	16.7	X	161.47879	146.45235	226.12622	1.16419	0.0792466	0.20350947	2.8625053	21	2 21.2	20.9
319247 2006 AX_{51}	17.7	X	320.42818	51.96373	176.62250	1.93163	0.0982975	0.26561062	2.3968402	21	2 6.9	20.5
319248 2006 AY_{63}	17.0	X	347.84216	249.90037	115.49498	2.38979	0.1259197	0.23615273	2.5922332	21	10 15.3	19.5
319249 2006 AL_{66}	15.9	X	88.20501	209.46556	119.04972	4.06264	0.2045218	0.18294821	3.0731513	21	—	—
319250 2006 AZ_{67}	16.1	X	186.13008	108.81071	123.41738	2.31136	0.1556512	0.17567973	3.1573419	21	12 9.9	21.2
319251 2006 AM_{71}	15.6	X	40.26075	240.49628	135.55416	5.81320	0.1272531	0.18078532	3.0976138	21	—	—
319252 2006 AD_{81}	15.3	X	250.16429	205.05709	323.78636	12.47005	0.0970809	0.17829625	3.1263762	21	12 6.8	19.9
319253 2006 AM_{83}	15.0	X	247.09651	152.90530	359.50814	27.85954	0.1633334	0.17494173	3.1662152	21	10 23.8	20.0
319254 2006 AS_{83}	15.7	X	314.11680	17.04237	73.41020	11.50283	0.1205307	0.17983840	3.1084778	21	11 28.3	19.5
319255 2006 AT_{83}	15.3	X	306.81424	155.90140	315.77438	10.21557	0.0393850	0.18066259	3.0990165	21	12 19.1	19.6
319256 2006 AM_{84}	15.4	X	297.01602	128.79913	341.75358	18.97172	0.1547242	0.17784157	3.1317028	21	11 14.7	19.7
319257 2006 AE_{87}	16.5	X	284.35006	285.89842	196.26890	2.22290	0.0185854	0.17912087	3.1167736	21	12 4.7	20.7
319258 2006 AQ_{92}	17.0	X	185.26630	148.95625	109.52752	1.62913	0.1507065	0.24469728	2.5315312	21	—	—
319259 2006 AY_{100}	15.6	X	78.29173	26.67298	321.21476	9.96882	0.0615937	0.18048413	3.1010591	21	—	—
319260 2006 AB_{102}	17.3	X	353.00541	280.69403	127.45671	3.27131	0.1123056	0.24092297	2.5579021	21	12 22.3	20.0
319261 2006 BQ_{4}	15.6	X	9.37369	258.47379	123.67738	11.27982	0.0830868	0.17752793	3.1353902	21	11 28.0	19.8
319262 2006 BX_{5}	15.5	X	290.21071	62.90982	20.80879	21.64160	0.2673035	0.17396722	3.1780283	21	9 26.9	19.6
319263 2006 BY_{10}	16.0	X	237.78587	40.82326	140.39516	2.24770	0.1252588	0.17707350	3.1407522	21	12 4.6	20.5
319264 2006 BE_{12}	16.1	X	101.45803	194.15072	134.89637	3.36804	0.0775490	0.18322135	3.0700963	21	—	—
319265 2006 BS_{21}	15.6	X	34.19324	245.19409	128.09075	11.65505	0.1275089	0.17945162	3.1129427	21	12 24.9	19.8
319266 2006 BL_{22}	16.3	X	241.81205	218.72664	7.22518	0.18025	0.1485640	0.18379753	3.0636767	21	—	—
319267 2006 BG_{23}	15.3	X	42.18723	92.29794	308.89520	10.18228	0.0414228	0.18531175	3.0469646	21	—	—
319268 2006 BH_{27}	15.8	X	295.74137	31.87551	109.35944	2.57153	0.1242423	0.18160157	3.0883249	21	—	—
319269 2006 BU_{41}	16.5	X	108.46517	196.60891	153.25217	3.06988	0.0902541	0.24570560	2.5246006	21	—	—
319270 2006 BA_{42}	16.1	X	164.77345	284.54189	312.82546	4.45147	0.1175157	0.17526900	3.1622726	21	11 27.1	21.2
319271 2006 BT_{42}	15.9	X	304.23730	35.61494	85.08278	3.95224	0.0415915	0.18047797	3.1011297	21	12 26.2	20.0
319272 2006 BR_{44}	17.5	X	219.63316	317.71497	145.33531	6.29380	0.1847513	0.28786073	2.2716832	21	8 12.1	20.9
319273 2006 BP_{45}	15.4	X	214.22523	58.14854	154.16802	11.92691	0.1071247	0.17485702	3.1672378	21	12 18.1	20.3
319274 2006 BZ_{47}	16.4	X	264.03750	96.40348	95.71166	2.71101	0.1288980	0.18401137	3.0613027	21	—	—
319275 2006 BU_{50}	15.6	X	199.41698	121.68076	120.94037	16.64415	0.1813386	0.17925303	3.1152414	21	—	—
319276 2006 BG_{59}	16.7	X	281.20082	281.12992	201.37811	0.31981	0.1379234	0.17537993	3.1609391	21	11 15.3	20.7
319277 2006 BJ_{60}	16.2	X	303.76743	337.48012	98.74212	2.87577	0.1497738	0.17403551	3.1771969	21	10 21.3	20.1
319278 2006 BY_{61}	15.7	X	265.13485	128.88879	337.61601	10.23640	0.1945835	0.17315752	3.1879279	21	9 24.2	20.2
319279 2006 BR_{66}	15.9	X	155.43013	289.75187	322.15452	9.53985	0.1720048	0.17341584	3.1847612	21	12 4.6	21.3
319280 2006 BW_{66}	16.1	X	281.49915	147.46802	333.82581	5.29486	0.1141176	0.17714687	3.1398848	21	11 16.1	20.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
319281 2006 BQ_{73}	16.8	X	231.23059	230.80678	61.36161	3.25590	0.1739680	0.25857786	2.4401049	21	1 18.5	20.7
319282 2006 BY_{73}	13.5	X	48.87868	82.25505	115.06681	9.77790	0.0251306	0.08272951	5.2162983	21	5 28.3	20.4
319283 2006 BO_{76}	15.7	X	185.13559	160.90724	100.17745	4.90943	0.1054638	0.18119936	3.0928934	21	—	—
319284 2006 BW_{77}	16.7	X	281.94605	138.92788	120.82557	7.74379	0.1367637	0.26188905	2.4194936	21	1 28.0	20.0
319285 2006 BS_{78}	16.2	X	338.92186	301.09662	150.96225	4.02227	0.0857276	0.18314461	3.0709538	21	—	—
319286 2006 BU_{82}	16.4	X	43.94733	284.75905	100.68789	10.26783	0.0727051	0.19094203	2.9867694	21	—	—
319287 2006 BN_{85}	16.6	X	207.37052	329.14537	330.06186	5.24644	0.1891840	0.25638428	2.4540031	21	1 7.3	20.6
319288 2006 BD_{87}	16.2	X	299.00945	107.13993	329.13432	9.51228	0.0555812	0.17157439	3.2075079	21	10 18.8	20.7
319289 2006 BV_{87}	16.5	X	247.66463	81.26967	67.50562	1.93411	0.1147117	0.17400127	3.1776137	21	11 8.1	21.0
319290 2006 BM_{88}	15.8	X	249.69160	25.28894	119.93990	6.77115	0.1173235	0.17409732	3.1764449	21	11 8.1	20.4
319291 2006 BM_{89}	16.5	X	274.34466	88.28636	15.58575	1.59810	0.0926987	0.17258214	3.1950095	21	10 19.8	20.9
319292 2006 BX_{90}	15.7	X	249.84027	25.58845	153.19778	10.98175	0.0343665	0.17771830	3.1331507	21	12 27.9	20.3
319293 2006 BG_{91}	15.9	X	202.65693	50.97881	166.08221	4.79147	0.1441470	0.17340635	3.1848774	21	12 8.3	20.9
319294 2006 BN_{92}	15.5	X	344.47074	93.97532	350.67581	9.22747	0.0986924	0.18164350	3.0878497	21	—	—
319295 2006 BG_{96}	15.6	X	230.26143	137.76822	328.84280	7.01498	0.1499404	0.16114437	3.3444596	21	8 24.9	20.6
319296 2006 BC_{103}	16.1	X	229.23230	59.24541	148.18963	9.71429	0.0118082	0.18004611	3.1060865	21	—	—
319297 2006 BX_{103}	17.9	X	183.32817	152.28179	316.94527	1.45179	0.1623577	0.28347712	2.2950424	21	7 16.9	21.3
319298 2006 BK_{109}	15.7	X	172.07540	301.39266	333.08498	8.95712	0.0625228	0.18189239	3.0850322	21	—	—
319299 2006 BE_{110}	15.3	X	51.01673	203.01293	124.93728	11.06051	0.0477334	0.17102738	3.2143436	21	11 12.3	20.0
319300 2006 BC_{111}	15.9	X	340.58953	73.35888	339.67576	6.56276	0.1125852	0.17576356	3.1563379	21	11 19.9	19.9
319301 2006 BD_{113}	16.0	X	23.87085	33.94016	337.49187	3.28146	0.0872859	0.17526558	3.1623137	21	12 1.5	20.3
319302 2006 BV_{114}	15.3	X	260.28820	248.87675	153.67539	12.95649	0.0722265	0.15774242	3.3923739	21	7 18.9	20.3
319303 2006 BY_{117}	16.0	X	264.35452	167.05670	341.82079	3.88100	0.0566945	0.17838860	3.1252972	21	12 6.4	20.3
319304 2006 BA_{120}	16.1	X	307.24797	335.66498	184.74559	3.96287	0.0739857	0.18419767	3.0592382	21	—	—
319305 2006 BB_{124}	15.4	X	314.92577	153.30870	334.93219	10.64257	0.0593620	0.18006547	3.1058639	21	—	—
319306 2006 BC_{127}	16.3	X	197.06720	96.65795	161.09631	5.54179	0.0724343	0.17983387	3.1085299	21	—	—
319307 2006 BA_{134}	16.0	X	292.32448	137.62685	352.04356	4.27925	0.1195676	0.17953179	3.1120159	21	12 13.1	19.9
319308 2006 BG_{142}	17.1	X	124.35723	237.12898	4.36001	1.32364	0.0578795	0.22863857	2.6487220	21	10 28.6	20.9
319309 2006 BR_{143}	15.8	X	139.17735	136.10966	177.20535	5.01320	0.1290787	0.18059631	3.0997748	21	—	—
319310 2006 BT_{143}	16.0	X	209.63715	244.33166	258.39433	9.04841	0.0609876	0.23046937	2.6346762	21	9 26.2	19.9
319311 2006 BW_{146}	16.2	X	185.40195	261.70478	351.05450	4.83585	0.0941215	0.18007208	3.1057879	21	—	—
319312 2006 BD_{149}	16.4	X	343.86003	203.48315	229.85237	7.11593	0.1733477	0.24466477	2.5317555	21	—	—
319313 2006 BD_{152}	17.3	X	340.08885	147.49254	58.39629	2.30146	0.1264983	0.26135393	2.4227951	21	2 2.1	20.1
319314 2006 BJ_{156}	16.8	X	329.10450	281.67703	111.20863	2.54508	0.1554792	0.23131244	2.6282705	21	10 18.3	19.3
319315 2006 BF_{157}	16.0	X	217.35435	241.40592	351.02549	12.22359	0.1146550	0.17737933	3.1371410	21	—	—
319316 2006 BE_{159}	15.6	X	295.47294	339.12767	151.72561	12.37840	0.0727873	0.17831235	3.1261880	21	12 24.4	19.9
319317 2006 BV_{163}	15.4	X	162.27973	285.81986	321.48842	8.42589	0.0584985	0.17506915	3.1646787	21	12 7.3	20.3
319318 2006 BF_{164}	15.8	X	268.65811	183.96390	321.19840	4.30446	0.0977449	0.17731472	3.1379030	21	12 1.4	20.2
319319 2006 BH_{166}	15.8	X	134.70856	1.16914	328.59874	9.27060	0.0092722	0.18397221	3.0617371	21	—	—
319320 2006 BG_{167}	15.6	X	156.13163	115.36803	144.47463	11.32346	0.0531587	0.17477189	3.1682661	21	12 17.2	20.5
319321 2006 BX_{167}	15.6	X	272.83016	6.70005	138.57721	6.36568	0.0802492	0.17663354	3.1459653	21	12 10.6	20.0
319322 2006 BO_{172}	15.6	X	357.15038	244.92264	135.28542	17.94004	0.2970444	0.17722309	3.1389845	21	11 29.4	18.9
319323 2006 BG_{174}	16.7	X	334.29889	48.72036	1.62268	4.85407	0.1426890	0.23885166	2.5726688	21	11 22.2	19.2
319324 2006 BV_{174}	15.5	X	279.97374	102.04376	336.01434	14.44402	0.1286197	0.16943750	3.2344196	21	9 16.3	19.9
319325 2006 BO_{177}	15.8	X	55.90319	251.58434	148.96611	9.58085	0.1260260	0.18768511	3.0212234	21	—	—
319326 2006 BD_{178}	17.3	X	232.16117	211.97327	88.44791	2.47929	0.1893797	0.26178734	2.4201203	21	1 28.4	21.1
319327 2006 BV_{180}	15.7	X	64.91486	30.02680	331.11510	9.52067	0.0370777	0.17877652	3.1207745	21	—	—
319328 2006 BX_{183}	15.8	X	216.86871	202.47949	324.59727	8.48483	0.0374998	0.17437795	3.1730361	21	10 31.6	20.6
319329 2006 BE_{193}	16.7	X	215.62851	249.79116	212.40408	1.45675	0.0323733	0.22276101	2.6951107	21	8 17.5	20.3
319330 2006 BE_{204}	16.6	X	304.68307	65.25523	348.41957	3.46866	0.1438999	0.16893111	3.2408801	21	9 21.8	20.7
319331 2006 BA_{206}	17.1	X	115.21187	209.90158	147.69050	6.20451	0.2048432	0.25539066	2.4603641	21	—	—
319332 2006 BD_{210}	15.3	X	125.28024	305.82926	350.88609	8.50825	0.0712281	0.17516603	3.1635117	21	12 28.3	20.2
319333 2006 BR_{224}	15.6	X	175.86315	101.46986	151.07329	16.81811	0.1155027	0.17606845	3.1526930	21	12 26.4	20.8
319334 2006 BV_{239}	15.7	X	144.38517	139.34628	125.78414	10.51415	0.0690695	0.17459799	3.1703695	21	12 11.6	20.7
319335 2006 BA_{243}	15.3	X	117.43268	339.30042	333.72269	16.55117	0.1857180	0.17781182	3.1320520	21	—	—
319336 2006 BG_{247}	15.9	X	136.58227	320.49514	333.01544	8.95240	0.0815106	0.17714614	3.1398935	21	—	—
319337 2006 BO_{257}	15.6	X	322.37389	93.44934	347.69197	9.46822	0.0673524	0.17434432	3.1734440	21	11 27.6	19.9
319338 2006 BQ_{257}	17.2	X	30.33119	56.20340	298.51609	3.68332	0.0831754	0.23450369	2.6043715	21	11 30.9	20.6
319339 2006 BX_{265}	15.4	X	196.59836	291.12040	333.97446	7.93857	0.1128351	0.17965799	3.1105584	21	—	—
319340 2006 BG_{266}	15.4	X	200.19618	60.27815	192.65973	11.23447	0.0837552	0.17038315	3.2224408	21	—	—
319341 2006 BB_{268}	15.2	X	224.94429	69.81612	132.02147	26.17051	0.1788458	0.17460765	3.1702526	21	12 13.4	20.5
319342 2006 BY_{273}	13.7	X	181.56611	80.05957	350.00714	2.79334	0.0798774	0.08214712	5.2409237	21	5 29.9	21.0
319343 2006 BD_{281}	16.9	X	326.09799	260.56185	117.65068	3.19866	0.1573982	0.23034821	2.6355999	21	9 20.1	19.5
319344 2006 BQ_{283}	15.3	X	47.77203	240.66810	140.40037	10.58686	0.0506547	0.18104241	3.0946807	21	—	—
319345 2006 CY_{8}	15.7	X	299.16913	261.29896	162.75866	11.71320	0.2182163	0.16970788	3.2309833	21	9 17.4	19.6
319346 2006 CC_{13}	16.6	X	253.94128	150.64940	141.45326	7.02089	0.0321637	0.19966456	2.8991369	21	2 27.2	20.6
319347 2006 CD_{17}	15.7	X	109.07023	205.01621	143.49248	11.48808	0.1361263	0.18723524	3.0260609	21	—	—
319348 2006 CS_{21}	15.6	X	249.52763	153.19643	14.16164	5.45619	0.1421756	0.17506544	3.1647235	21	11 27.5	20.2
319349 2006 CV_{23}	16.1	X	198.93040	83.40870	127.54124	2.63609	0.1253004	0.17499235	3.1656046	21	11 29.4	21.1
319350 2006 CO_{24}	15.4	X	175.59631	285.72689	318.74243	12.26271	0.1881738	0.17514627	3.1637498	21	12 13.2	20.8
319351 2006 CO_{36}	17.9	X	90.65235	99.22733	13.52736	1.90513	0.1303533	0.26810295	2.3819628	21	4 2.6	20.6
319352 2006 CN_{39}	15.6	X	217.62713	302.83475	241.84638	4.00812	0.1200764	0.17131494	3.2107456	21	11 16.6	20.4
319353 2006 CC_{49}	15.6	X	119.22034	3.06760	319.68373	11.89463	0.1949276	0.24448095	2.5330244	21	—	—
319354 2006 CZ_{51}	15.6	X	19.14667	236.58726	147.28125	5.50360	0.1637443	0.17841036	3.1250431	21	12 21.6	19.6
319355 2006 CD_{54}	15.2	X	225.96342	72.14169	93.85415	19.63111	0.1160715	0.17238843	3.1974024	21	11 11.2	20.3
319356 2006 CX_{59}	15.9	X	240.85366	128.21107	355.42220	14.28334	0.0788556	0.16555849	3.2847457	21	10 1.9	20.8
319357 2006 CS_{61}	15.4	X	231.53559	37.53825	126.40887	15.29739	0.1570226	0.17192291	3.2031717	21	11 8.5	20.5
319358 2006 CE_{64}	16.3	X	93.79817	285.34836	98.49499	3.13492	0.1197560	0.19852848	2.9101866	21	—	—
319359 2006 DP_{2}	16.0	X	207.90464	265.85077	340.60086	10.41953	0.0980679	0.17893800	3.1188967	21	—	—
319360 2006 DZ_{9}	17.0	X	241.10460	113.48368	101.55670	5.49510	0.1876418	0.24209337	2.5496513	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
319361 2006 DB_{19}	16.5	X	106.65981	206.33512	102.45077	3.38669	0.2025318	0.23718330	2.5847189	21	—	—
319362 2006 DD_{19}	17.6	X	132.75379	43.55309	25.15917	2.61048	0.1615237	0.26846719	2.3798079	21	4 2.9	20.9
319363 2006 DV_{24}	17.6	X	140.88435	325.06442	117.50977	2.00846	0.1619283	0.27112436	2.3642335	21	4 30.7	21.0
319364 2006 DU_{29}	16.6	X	58.97112	277.60889	349.83202	4.28583	0.0973961	0.21799881	2.7342190	21	9 16.3	20.1
319365 2006 DR_{44}	16.3	X	236.53903	170.20842	18.85750	0.31073	0.1228368	0.17776601	3.1325900	21	12 12.5	20.6
319366 2006 DU_{54}	17.0	X	185.36356	137.71663	158.09736	2.25172	0.0990735	0.24589078	2.5233329	21	—	—
319367 2006 DL_{64}	15.6	X	307.04152	105.07808	15.04031	10.96024	0.1104425	0.17995503	3.1071345	21	12 24.8	19.6
319368 2006 DQ_{67}	17.1	X	68.91153	249.06837	252.41839	6.85401	0.1469528	0.26710094	2.3879164	21	4 8.6	19.6
319369 2006 DA_{70}	16.0	X	142.63498	289.45335	110.81023	2.79442	0.1132018	0.19473510	2.9478580	21	3 12.7	20.4
319370 2006 DL_{71}	15.9	X	235.52444	198.98141	354.57258	8.78881	0.0440395	0.17495011	3.1661142	21	12 27.0	20.5
319371 2006 DG_{72}	15.6	X	237.52906	147.38121	355.95853	14.12742	0.1349222	0.17067324	3.2187884	21	10 13.9	20.5
319372 2006 DG_{74}	16.0	X	287.90256	312.63097	161.13637	9.30397	0.1541869	0.17492041	3.1664725	21	11 14.3	20.1
319373 2006 DT_{82}	17.3	X	128.86885	54.60925	203.24825	0.77695	0.1509387	0.22840151	2.6505545	21	11 26.8	21.5
319374 2006 DX_{84}	17.0	X	325.81094	160.41152	231.47744	1.98844	0.1289383	0.22825626	2.6516788	21	10 8.7	19.8
319375 2006 DW_{86}	18.0	X	66.03729	119.49908	56.34096	1.43462	0.1193050	0.26939645	2.3743321	21	5 23.8	20.6
319376 2006 DV_{115}	15.7	X	328.85135	64.42282	15.24956	11.83844	0.1252085	0.17171157	3.2057994	21	12 3.2	19.7
319377 2006 DP_{119}	14.8	X	149.89002	156.55536	116.32134	18.02703	0.2084250	0.17336117	3.1854307	21	12 25.6	20.3
319378 2006 DS_{138}	13.7	X	346.12797	149.96810	129.78171	7.23989	0.0210907	0.08070661	5.3031019	21	6 15.3	20.6
319379 2006 DC_{146}	15.8	X	43.83237	16.54709	351.91437	10.71635	0.0823960	0.17247648	3.1963142	21	12 23.3	20.4
319380 2006 DR_{146}	15.9	X	11.38357	206.53596	179.20227	17.38818	0.0808130	0.16930996	3.2360437	21	12 2.5	20.5
319381 2006 DL_{147}	16.2	X	205.71033	238.68679	5.60486	2.20865	0.0828170	0.17675899	3.1444767	21	—	—
319382 2006 DC_{152}	17.5	X	26.32813	73.96230	191.88187	1.82349	0.1328432	0.27480563	2.3430720	21	8 1.4	19.7
319383 2006 DS_{174}	16.6	X	167.85967	60.81843	158.63082	9.61723	0.1026695	0.22992401	2.6388406	21	11 19.9	20.8
319384 2006 DH_{175}	15.3	X	261.69851	163.90413	2.27669	27.86890	0.1246583	0.17768361	3.1335584	21	12 10.1	20.2
319385 2006 DY_{178}	15.8	X	286.30658	101.58300	358.08435	11.54518	0.0640840	0.16887201	3.2416361	21	10 29.7	20.4
319386 2006 DH_{202}	15.3	X	214.54364	172.13455	357.67356	10.02359	0.0423713	0.17019401	3.2248279	21	10 31.4	20.2
319387 2006 EO_{19}	15.7	X	230.89438	283.03507	7.95775	11.92084	0.1343699	0.18563045	3.0434761	21	1 31.7	20.7
319388 2006 EP_{26}	16.3	X	277.01822	136.14383	342.42770	11.33520	0.0628834	0.17125226	3.2115289	21	11 9.9	21.0
319389 2006 EK_{33}	16.4	X	285.07788	52.20538	314.59445	3.34791	0.0898670	0.21467974	2.7623286	21	7 3.6	20.1
319390 2006 EU_{37}	15.1	X	252.18187	36.81996	147.79237	23.94158	0.1040358	0.17960216	3.1112029	21	12 30.1	19.8
319391 2006 EH_{46}	15.8	X	156.24854	312.12061	321.72416	9.00555	0.0505449	0.17820050	3.1274960	21	—	—
319392 2006 EL_{68}	16.7	X	33.31389	183.14637	165.66071	4.35009	0.2209366	0.23272323	2.6176378	21	12 18.5	20.1
319393 2006 EV_{68}	16.3	X	192.80465	265.26969	332.90652	2.67171	0.1064657	0.17365346	3.1818553	21	12 25.6	21.1
319394 2006 ET_{69}	15.3	X	229.20224	233.63723	7.59568	25.48431	0.4165188	0.17832537	3.1260359	21	—	—
319395 2006 FP_{7}	16.7	X	38.25693	39.66569	165.16989	2.14457	0.0070525	0.20095837	2.8866800	21	5 14.5	20.7
319396 2006 FG_{14}	17.9	X	295.87431	138.24462	43.61336	2.40166	0.0516524	0.30923144	2.1657764	21	—	—
319397 2006 GU_{1}	17.4	X	203.84750	253.91134	185.03575	5.30505	0.1314973	0.28217385	2.3021037	21	6 27.3	20.8
319398 2006 GJ_{8}	17.1	X	197.96159	71.13473	142.60947	4.83802	0.1017941	0.23232927	2.6205962	21	12 12.6	20.9
319399 2006 GF_{13}	16.6	X	177.45870	227.58404	75.17709	4.76834	0.1091122	0.24177104	2.5519169	21	—	—
319400 2006 GG_{13}	16.1	X	296.71564	333.69308	88.52069	3.97418	0.0995430	0.22340215	2.6899517	21	10 6.4	19.3
319401 2006 GG_{22}	16.2	X	65.97963	133.40338	157.65589	5.38105	0.0890505	0.21913768	2.7247375	21	10 27.2	19.9
319402 2006 GZ_{23}	16.4	X	190.10653	43.58786	150.62801	2.29978	0.1331157	0.22667795	2.6639733	21	11 7.6	20.5
319403 2006 GZ_{41}	16.5	X	286.56865	93.18182	80.09315	5.74557	0.1157613	0.24122780	2.5557467	21	—	—
319404 2006 GT_{42}	15.0	X	272.21381	305.45924	203.79979	23.16529	0.2122116	0.17427125	3.1743311	21	11 25.5	19.5
319405 2006 GG_{44}	17.4	X	95.84875	181.40286	76.07432	3.71408	0.0383274	0.28365704	2.2940718	21	10 22.4	20.3
319406 2006 GG_{49}	15.6	X	246.92282	81.82422	154.57998	25.95494	0.2199289	0.17995444	3.1071413	21	—	—
319407 2006 HJ_{8}	15.5	X	25.53385	181.61576	192.35999	6.82440	0.0389930	0.16766805	3.2571356	21	12 1.1	20.1
319408 2006 HT_{9}	16.2	X	66.77937	302.86697	61.72883	12.94624	0.2078591	0.23270572	2.6177692	21	—	—
319409 2006 HP_{18}	16.8	X	154.67287	119.38981	104.76234	6.21481	0.2285766	0.22388333	2.6860961	21	11 10.6	21.5
319410 2006 HX_{19}	15.7	X	222.35258	26.64133	202.16789	9.87493	0.0519366	0.17392596	3.1785310	21	—	—
319411 2006 HJ_{25}	17.6	X	45.56615	308.91310	164.14244	3.60916	0.0647297	0.31329612	2.1470033	21	—	—
319412 2006 HJ_{27}	18.0	X	258.49730	156.68258	26.59240	2.26810	0.0557429	0.29928940	2.2134778	21	—	—
319413 2006 HK_{34}	16.5	X	117.16639	11.03630	41.95177	10.95937	0.1498219	0.25198894	2.4824570	21	2 28.6	19.9
319414 2006 HV_{35}	17.0	X	171.91663	230.15412	89.98270	1.53857	0.0944549	0.24692238	2.5163000	21	—	—
319415 2006 HC_{37}	15.4	X	131.23819	95.09292	211.35046	8.71283	0.2782393	0.16803296	3.2524183	21	—	—
319416 2006 HG_{38}	17.8	X	218.48873	79.35321	103.31309	3.71326	0.1027530	0.29456860	2.2370641	21	12 8.1	20.5
319417 2006 HJ_{49}	15.9	X	247.64641	253.54513	42.55907	7.74036	0.1424437	0.18867487	3.0106482	21	2 20.4	20.7
319418 2006 HY_{63}	16.1	X	71.41545	208.76073	212.98490	12.03338	0.1818634	0.24448669	2.5329847	21	—	—
319419 2006 HC_{68}	18.1	X	207.71452	236.69619	14.58183	2.34781	0.1221830	0.30085909	2.2057720	21	—	—
319420 2006 HQ_{71}	16.2	X	192.52565	191.93502	121.96554	5.39882	0.1458597	0.17677760	3.1442559	21	1 21.5	21.3
319421 2006 HR_{77}	17.7	X	299.03236	129.06651	166.60007	0.93130	0.2349148	0.32515228	2.0944895	21	3 13.7	20.4
319422 2006 HW_{80}	17.1	X	143.29782	263.18598	36.84078	7.20222	0.0514929	0.23321861	2.6139298	21	—	—
319423 2006 HN_{86}	16.2	X	298.65680	4.08074	134.43508	7.47637	0.2634285	0.23946952	2.5682417	21	—	—
319424 2006 HN_{88}	16.6	X	291.47530	329.81821	19.82780	2.06589	0.0801674	0.20323136	2.8651162	21	6 20.6	20.4
319425 2006 HM_{98}	18.0	X	358.01002	29.30303	38.68375	5.76813	0.0973733	0.29703605	2.2246581	21	—	—
319426 2006 HO_{98}	16.8	X	28.15277	346.60447	272.77765	0.99325	0.0379084	0.20564640	2.8426407	21	7 14.1	20.6
319427 2006 HC_{102}	14.8	X	248.04926	200.39778	121.35023	4.04170	0.0402409	0.12452301	3.9716380	21	4 6.3	20.5
319428 2006 HH_{103}	15.7	X	137.80329	253.66119	124.22078	17.00223	0.2336886	0.17793948	3.1305538	21	2 24.6	20.8
319429 2006 HM_{120}	17.3	X	242.85823	123.24450	53.85893	5.42173	0.0786479	0.23058633	2.6337851	21	12 22.1	20.7
319430 2006 HH_{140}	15.2	X	312.40332	198.20563	59.01613	4.60859	0.0538227	0.12481506	3.9654400	21	4 4.0	20.7
319431 2006 JG_{7}	15.1	X	208.65567	61.52887	213.78915	13.16992	0.1556494	0.17378507	3.1802486	21	—	—
319432 2006 JH_{11}	17.9	X	6.77530	57.77310	26.51134	5.96715	0.1210366	0.30156556	2.2023257	21	—	—
319433 2006 JP_{18}	16.9	X	12.73515	347.68631	106.64585	4.14012	0.1822462	0.24043385	2.5613699	21	—	—
319434 2006 JZ_{39}	17.1	X	227.66771	74.26554	116.16439	3.10085	0.0236877	0.22778972	2.6552982	21	12 27.1	20.6
319435 2006 JW_{48}	15.4	X	298.63363	225.17688	31.20910	12.09981	0.1997728	0.18621490	3.0371047	21	2 20.9	20.0
319436 2006 JZ_{50}	17.6	X	56.78509	208.24762	198.45705	3.93538	0.1761464	0.30378439	2.1915889	21	—	—
319437 2006 JY_{79}	16.6	X	111.29668	353.18673	244.15630	4.01556	0.1038996	0.21616800	2.7496354	21	10 9.9	20.8
319438 2006 KD_{2}	16.2	X	99.04549	296.36417	316.17193	7.75696	0.1703258	0.21688806	2.7435462	21	10 19.9	20.6
319439 2006 KN_{4}	15.0	X	327.39115	152.38567	90.62041	2.72332	0.1309914	0.12511067	3.9591913	21	3 28.0	20.1
319440 2006 KM_{33}	17.8	X	181.59857	180.94474	107.70315	1.87662	0.1905512	0.29981180	2.2109058	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
319441 2006 KW_{52}	18.2	X	285.29436	298.59450	200.64656	5.95945	0.0415733	0.29489672	2.2354043	21	—	—
319442 2006 KA_{53}	16.3	X	39.89400	212.89763	101.74414	5.72644	0.1111876	0.21415895	2.7668051	21	10 26.5	19.9
319443 2006 KW_{59}	15.7	X	147.96996	133.32253	203.09709	11.12005	0.1177898	0.17148042	3.2086796	21	1 3.5	20.7
319444 2006 KL_{61}	18.2	X	245.83646	78.60923	186.34181	5.52088	0.1042593	0.30828025	2.1702291	21	—	—
319445 2006 KU_{61}	16.3	X	58.20923	245.71559	113.40871	7.19363	0.0861597	0.22564927	2.6720634	21	—	—
319446 2006 KV_{63}	16.2	X	56.82906	40.23206	216.08781	8.47501	0.1093570	0.20974926	2.8054493	21	8 27.2	20.0
319447 2006 KJ_{65}	15.9	X	271.64273	189.93594	134.67848	13.44503	0.0944958	0.19630996	2.9320710	21	4 27.1	20.4
319448 2006 KR_{66}	17.6	X	247.02266	334.25748	227.34178	3.56734	0.1450056	0.30063263	2.2068796	21	—	—
319449 2006 KN_{69}	16.5	X	217.48853	82.75029	125.77435	5.26588	0.0799903	0.23062887	2.6334613	21	12 30.1	20.2
319450 2006 KO_{69}	16.6	X	25.23984	221.94030	180.71676	7.06022	0.0845306	0.22967954	2.6407128	21	—	—
319451 2006 KC_{75}	16.0	X	338.21271	220.57905	144.82180	14.56869	0.2041596	0.21435408	2.7651257	21	9 24.5	18.7
319452 2006 KH_{78}	17.0	X	109.10614	65.60259	172.93360	5.32290	0.0427173	0.21490748	2.7603768	21	10 5.1	20.7
319453 2006 KN_{81}	17.6	X	230.70214	131.81439	91.07966	7.13390	0.1486146	0.29966334	2.2116360	21	—	—
319454 2006 KC_{116}	16.6	X	187.27787	286.05951	161.99992	2.35502	0.0319710	0.20306611	2.8666703	21	6 24.4	20.8
319455 2006 KB_{142}	16.5	X	18.05391	287.22182	48.43829	3.06230	0.0832398	0.21389620	2.7690705	21	10 16.6	19.8
319456 2006 KB_{145}	16.8	X	276.41075	183.01629	144.14917	2.82309	0.1956241	0.25635183	2.4542103	21	4 13.3	20.4
319457 2006 LM_{3}	15.3	X	230.88100	46.80256	205.23958	13.07592	0.0476219	0.17268500	3.1937405	21	—	—
319458 2006 LY_{4}	17.9	X	223.56702	109.33652	181.55001	5.03353	0.2802663	0.30291997	2.1957562	21	1 4.1	21.9
319459 2006 MA_{6}	17.3	X	56.61296	62.87080	249.06296	1.25566	0.2022695	0.27592820	2.3367127	21	12 4.4	20.3
319460 2006 NJ	17.8	X	111.10506	302.41368	36.29913	3.79508	0.1942057	0.28767515	2.2726601	21	—	—
319461 2006 OP_{2}	17.3	X	146.47453	312.38033	320.71409	9.47076	0.2675911	0.28674682	2.2775626	21	—	—
319462 2006 OB_{4}	17.2	X	42.10335	169.52358	152.78954	6.52671	0.2173899	0.27003106	2.3706106	21	12 3.3	20.3
319463 2006 OW_{6}	15.5	X	132.44549	180.13639	255.46266	9.50592	0.0761349	0.17714322	3.1399280	21	4 6.6	20.2
319464 2006 OU_{9}	15.9	X	295.16984	198.25046	42.15312	1.67097	0.1175983	0.17448025	3.1717957	21	2 5.6	20.3
319465 2006 OR_{11}	17.2	X	53.24530	213.15249	116.82507	6.65992	0.2508506	0.27573598	2.3377986	21	12 29.5	20.6
319466 2006 OA_{12}	16.2	X	123.62331	58.18137	301.83093	10.07695	0.2791594	0.22436069	2.6822847	21	1 17.4	19.9
319467 2006 OE_{16}	17.7	X	106.50617	205.36960	88.59218	6.10848	0.2371685	0.28240469	2.3008490	21	12 31.1	21.6
319468 2006 PP_{1}	17.4	X	162.25986	161.24990	138.02848	3.15248	0.2468483	0.29311224	2.2444680	21	—	—
319469 2006 PY_{2}	15.8	X	320.25201	152.37746	149.39721	11.29786	0.1052989	0.18992165	2.9974577	21	5 28.8	19.8
319470 2006 PA_{7}	17.5	X	218.04911	337.91152	37.40933	2.74220	0.2344049	0.24549219	2.5260635	21	4 17.7	21.7
319471 2006 PA_{8}	17.0	X	61.75453	174.91061	100.81168	11.05032	0.1184600	0.26946599	2.3739236	21	10 16.9	20.2
319472 2006 PS_{11}	17.4	X	66.42283	139.37526	133.51453	6.10356	0.2240008	0.27054347	2.3676164	21	10 30.4	20.8
319473 2006 PO_{13}	17.3	X	177.62350	343.86218	271.54027	6.26637	0.0916630	0.28719728	2.2751804	21	—	—
319474 2006 PS_{16}	16.3	X	117.90407	40.84337	324.82472	8.49118	0.0866667	0.22467970	2.6797451	21	—	—
319475 2006 PC_{17}	17.1	X	319.06791	36.62982	343.19060	5.11613	0.2188982	0.26235733	2.4166138	21	9 3.5	18.6
319476 2006 PO_{20}	17.1	X	164.05027	299.33806	130.04257	24.04399	0.0907361	0.38157867	1.8825506	21	5 4.0	20.0
319477 2006 PC_{27}	17.0	X	234.37431	174.13209	120.64205	9.19868	0.2508352	0.30356362	2.1926513	21	1 16.8	20.5
319478 2006 PB_{30}	17.4	X	194.65312	53.35652	326.00677	5.27114	0.2739477	0.24091960	2.5579259	21	4 2.8	22.1
319479 2006 PC_{30}	17.7	X	147.19146	357.13405	294.93560	3.76968	0.2011682	0.28788286	2.2715668	21	—	—
319480 2006 QO_{1}	17.3	X	65.51738	198.08660	95.84481	7.63920	0.2110994	0.27330482	2.3516419	21	11 23.1	20.6
319481 2006 QO_{9}	17.2	X	97.34566	1.27291	296.01039	6.40304	0.2590245	0.27851136	2.3222418	21	12 28.7	21.2
319482 2006 QQ_{11}	17.8	X	85.07943	296.08500	351.53564	5.97315	0.2105778	0.27658490	2.3330125	21	12 2.1	21.4
319483 2006 QV_{14}	17.6	X	3.93104	62.09432	242.18162	0.65279	0.1775210	0.26320459	2.4114249	21	8 20.5	19.5
319484 2006 QU_{18}	17.6	X	32.59528	140.19096	154.31444	5.57111	0.2288485	0.26657577	2.3910515	21	10 14.6	20.1
319485 2006 QH_{19}	17.4	X	154.23390	170.04046	143.02914	6.83311	0.1976934	0.29090656	2.2557989	21	—	—
319486 2006 QF_{20}	17.3	X	209.04446	300.54163	342.00217	6.42164	0.2056367	0.29744940	2.2225966	21	—	—
319487 2006 QX_{22}	16.7	X	53.28171	346.06262	357.42922	5.81207	0.2250583	0.27347462	2.3506684	21	—	—
319488 2006 QK_{24}	17.2	X	190.12542	144.77803	138.84734	7.82126	0.1545762	0.29287889	2.2456600	21	—	—
319489 2006 QZ_{28}	17.1	X	337.51770	5.90979	349.45703	6.90566	0.1420184	0.26349201	2.4096710	21	9 12.6	19.3
319490 2006 QL_{30}	16.2	X	129.65632	327.97709	7.59689	7.86116	0.2096544	0.22240949	2.6979497	21	—	—
319491 2006 QF_{37}	16.9	X	48.20894	296.64334	33.70413	4.08762	0.1943936	0.27496238	2.3421814	21	12 17.2	20.0
319492 2006 QT_{44}	17.3	X	14.17732	344.69369	332.61121	9.30371	0.1822931	0.26629402	2.3927378	21	9 30.5	19.6
319493 2006 QH_{45}	17.5	X	198.52711	80.97658	306.41416	3.79793	0.2029887	0.24190910	2.5509459	21	4 15.3	21.9
319494 2006 QC_{49}	17.0	X	156.38993	227.19935	85.19498	5.51692	0.1606240	0.29046284	2.2580956	21	—	—
319495 2006 QW_{59}	17.5	X	191.36221	83.45101	229.40389	4.24801	0.2716258	0.29789688	2.2203703	21	1 7.2	21.1
319496 2006 QG_{63}	17.2	X	74.63808	357.79791	318.50815	5.72166	0.1379668	0.27635770	2.3342910	21	12 22.4	20.5
319497 2006 QC_{72}	17.5	X	249.72986	69.18829	351.54115	6.20941	0.1127189	0.25722611	2.4486461	21	7 29.2	20.8
319498 2006 QP_{79}	17.1	X	219.19795	16.33779	277.52348	3.24398	0.1319289	0.29983261	2.2108035	21	1 1.9	20.3
319499 2006 QP_{81}	16.7	X	67.41328	346.97572	355.62581	9.63595	0.1247536	0.27750539	2.3278506	21	—	—
319500 2006 QY_{81}	17.5	X	116.12021	132.98332	189.61000	2.84546	0.1934145	0.28369223	2.2938821	21	—	—
319501 2006 QA_{92}	17.9	X	139.40883	141.51473	156.13546	5.71757	0.1743312	0.28733774	2.2744389	21	—	—
319502 2006 QS_{92}	15.1	X	247.14822	46.54543	311.51970	15.91701	0.2295796	0.18249600	3.0782259	21	4 16.7	20.5
319503 2006 QZ_{100}	15.0	X	169.19574	253.07035	176.61505	26.22455	0.2413063	0.17449684	3.1715947	21	5 21.6	20.9
319504 2006 QU_{113}	17.5	X	91.82967	176.08587	164.14198	7.37295	0.2152736	0.28184499	2.3038941	21	—	—
319505 2006 QO_{117}	17.5	X	164.21485	316.48175	341.87275	2.84605	0.1808764	0.28973922	2.2618538	21	—	—
319506 2006 QN_{123}	15.5	X	65.22325	328.15952	22.79476	25.77056	0.2428591	0.27336517	2.3512958	21	—	—
319507 2006 QO_{123}	16.9	X	161.72513	114.69937	212.46443	6.17343	0.1684560	0.29221954	2.2490367	21	—	—
319508 2006 QR_{126}	16.7	X	224.04200	235.12491	93.02528	4.78512	0.1296971	0.23840718	2.5758654	21	3 1.5	20.7
319509 2006 QA_{143}	17.1	X	103.46862	296.04271	341.21380	6.88665	0.1083605	0.27229625	2.3574452	21	11 28.3	20.6
319510 2006 QM_{144}	16.3	X	154.84623	185.87521	199.89146	14.79964	0.2570394	0.22968515	2.6406698	21	3 11.6	20.8
319511 2006 QM_{145}	17.6	X	172.85482	263.23513	126.49611	1.09906	0.1993010	0.23690573	2.5867374	21	3 30.2	21.8
319512 2006 QW_{146}	17.7	X	211.77453	235.82122	352.08027	2.53164	0.1491100	0.28649962	2.2788724	21	—	—
319513 2006 QR_{148}	17.6	X	124.78241	40.20309	29.98570	4.63190	0.2002223	0.23260144	2.6185515	21	4 4.8	21.5
319514 2006 QX_{156}	16.5	X	232.00222	62.44330	241.13170	0.45253	0.1086649	0.16993030	3.2281634	21	2 15.2	21.3
319515 2006 QC_{163}	17.3	X	206.04974	122.54334	280.33455	2.61838	0.2158343	0.24518472	2.5281749	21	5 11.5	21.6
319516 2006 QV_{169}	16.8	X	212.06522	266.54465	120.74110	8.89562	0.2539100	0.24404041	2.5360719	21	4 30.7	21.4
319517 2006 QD_{184}	16.3	X	191.91222	349.20883	15.94323	13.50958	0.1899469	0.23270078	2.6178062	21	3 19.2	20.6
319518 2006 QR_{186}	17.4	X	231.84419	304.84096	155.13469	5.71344	0.0749964	0.26170535	2.4206257	21	9 2.5	20.7
319519 2006 RJ	16.2	X	270.48015	211.73635	108.81057	2.99162	0.3115077	0.18154101	3.0890116	21	3 25.5	21.4
319520 2006 RT_{9}	17.9	X	268.08706	98.91234	202.33068	4.14227	0.1954249	0.30907514	2.1665065	21	2 21.9	21.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
319521 2006 RC_{22}	16.0	X	202.10552	332.61542	35.96430	16.37782	0.1657595	0.23575707	2.5951327	21	4 2.6	20.3
319522 2006 RX_{22}	17.1	X	175.27012	346.80152	10.01749	4.61685	0.3165503	0.23063435	2.6334195	21	2 27.6	21.8
319523 2006 RB_{39}	17.2	X	40.43433	327.31809	10.83285	6.87492	0.1561010	0.27016158	2.3698471	21	12 10.8	20.3
319524 2006 RN_{42}	17.0	X	354.60513	23.22537	147.98387	1.07381	0.0716533	0.22813784	2.6525964	21	1 22.6	20.3
319525 2006 RC_{44}	17.9	X	141.88983	292.99783	94.55781	0.86972	0.2388781	0.22830628	2.6512915	21	3 4.2	22.1
319526 2006 RB_{45}	17.6	X	208.58163	269.46792	108.28677	0.99960	0.1472185	0.23960873	2.5672468	21	4 15.1	21.7
319527 2006 RE_{47}	15.7	X	73.70531	138.54673	31.03035	4.27205	0.0598390	0.17566489	3.1575197	21	5 22.8	20.0
319528 2006 RC_{49}	17.4	X	188.77910	18.25253	355.33616	2.58652	0.1802512	0.23519477	2.5992673	21	3 23.1	21.7
319529 2006 RF_{49}	15.6	X	59.83205	152.36879	15.11694	5.17473	0.1100422	0.17097075	3.2150533	21	5 7.5	19.7
319530 2006 RS_{49}	17.1	X	199.50932	22.15442	359.29383	2.35064	0.1575004	0.23817764	2.5775201	21	4 10.4	21.2
319531 2006 RN_{52}	16.6	X	79.84501	121.17825	21.32572	13.81590	0.2007191	0.23411836	2.6072283	21	5 10.1	19.9
319532 2006 RE_{57}	16.9	X	63.97037	180.59047	208.57259	8.92041	0.2917839	0.21315933	2.7754484	21	—	—
319533 2006 RC_{58}	17.2	X	136.84430	233.88384	179.05937	13.57521	0.2863126	0.23082870	2.6319412	21	4 4.3	21.6
319534 2006 RJ_{60}	17.3	X	125.56940	226.09579	186.27615	2.90977	0.2977985	0.22795133	2.6540430	21	3 24.9	21.5
319535 2006 RF_{63}	16.0	X	332.72149	336.45162	20.73899	7.89349	0.1187354	0.19524648	2.9427085	21	9 2.2	19.5
319536 2006 RK_{72}	17.8	X	174.06495	241.96212	185.71747	2.48711	0.1843165	0.24093273	2.5578330	21	5 16.5	21.9
319537 2006 RG_{79}	16.1	X	130.42369	317.13651	149.79336	2.26054	0.0476897	0.17553642	3.1590601	21	5 14.2	20.7
319538 2006 RG_{83}	16.6	X	310.08678	18.80005	299.50421	0.54168	0.0680896	0.18276024	3.0752580	21	6 7.4	20.6
319539 2006 RN_{83}	17.5	X	145.51502	92.99909	194.47944	1.77281	0.1657419	0.28233459	2.3012298	21	—	—
319540 2006 RP_{84}	17.7	X	159.79544	237.55616	6.61892	3.05574	0.2095006	0.27744255	2.3282021	21	12 12.4	21.4
319541 2006 RB_{86}	17.3	X	279.71866	64.80335	5.66527	15.07760	0.0649047	0.26229058	2.4170237	21	9 29.4	20.1
319542 2006 RA_{87}	17.5	X	216.40417	148.71784	13.11896	4.53680	0.1326185	0.26745103	2.3858320	21	10 29.0	20.8
319543 2006 RA_{88}	16.9	X	15.61682	3.01820	168.74011	2.74980	0.1011522	0.23236265	2.6203452	21	2 21.2	19.8
319544 2006 RV_{90}	17.5	X	147.29293	17.28544	21.59309	2.10824	0.2208502	0.23064423	2.6333443	21	3 20.9	21.6
319545 2006 RW_{94}	17.2	X	121.34168	264.97421	321.86117	2.06700	0.1337838	0.26265257	2.4148025	21	10 14.7	20.7
319546 2006 RE_{99}	17.6	X	295.19615	222.96034	173.18652	2.45835	0.1796297	0.25935219	2.4352456	21	8 15.9	20.0
319547 2006 RF_{104}	17.3	X	344.53931	175.02311	161.66929	7.58400	0.1201975	0.25939761	2.4349613	21	8 27.9	19.5
319548 2006 RA_{105}	17.3	X	201.29467	179.67262	2.26377	7.95586	0.0947302	0.27118239	2.3638961	21	11 10.0	20.7
319549 2006 RP_{105}	17.9	X	205.57876	304.31592	260.89992	0.41481	0.1290644	0.27467474	2.3438163	21	12 14.4	20.9
319550 2006 RM_{106}	17.8	X	182.61175	222.32116	334.87600	1.63267	0.1483748	0.26892484	2.3771072	21	11 6.7	21.4
319551 2006 RH_{116}	17.6	X	135.71309	7.15813	202.76846	1.57025	0.1156402	0.26270336	2.4144912	21	10 7.6	21.1
319552 2006 RL_{120}	17.4	X	139.25719	247.62314	21.69574	6.56308	0.1814551	0.27729241	2.3290424	21	12 26.8	21.2
319553 2006 SU_{11}	16.9	X	49.54995	328.42172	337.94651	8.76050	0.2244220	0.26854931	2.3793228	21	11 17.9	20.2
319554 2006 SP_{14}	16.7	X	173.86853	58.22237	352.05348	21.63598	0.0834834	0.23954421	2.5677078	21	4 10.5	20.8
319555 2006 SS_{14}	17.1	X	259.09402	22.26175	252.02210	4.32633	0.1354241	0.30087624	2.2056882	21	1 15.4	20.4
319556 2006 SA_{20}	17.5	X	196.51570	29.32202	357.94289	9.59838	0.2150360	0.23877674	2.5732069	21	4 13.0	22.0
319557 2006 SO_{28}	17.6	X	168.73242	21.35961	245.19369	4.86657	0.1929449	0.28781189	2.2719402	21	—	—
319558 2006 SO_{33}	16.7	X	150.81332	91.68107	262.31176	5.01048	0.1040556	0.22690389	2.6622046	21	1 16.3	20.4
319559 2006 SN_{34}	17.4	X	77.12479	17.46658	285.29229	1.65445	0.2102029	0.27309418	2.3528510	21	12 13.9	20.8
319560 2006 ST_{35}	16.6	X	156.46789	333.46497	40.47768	9.22608	0.2811782	0.23009738	2.6375150	21	3 7.3	21.2
319561 2006 SP_{39}	17.5	X	115.18374	110.79690	204.51187	6.47280	0.1362750	0.28235530	2.3011173	21	—	—
319562 2006 SW_{42}	16.0	X	121.61796	331.87185	61.74304	14.77342	0.2542887	0.22295843	2.6935195	21	3 1.7	20.3
319563 2006 SK_{44}	16.7	X	350.03110	85.81227	291.51477	4.64734	0.0656394	0.26776244	2.3839818	21	11 4.5	19.3
319564 2006 SZ_{44}	16.8	X	134.17563	203.31803	242.08472	8.99985	0.1469278	0.24152532	2.5536474	21	4 25.4	20.7
319565 2006 ST_{48}	16.5	X	176.65258	187.11704	198.78562	6.26550	0.3137963	0.23271534	2.6176970	21	4 1.3	21.3
319566 2006 SH_{49}	17.6	X	250.41215	47.62634	341.43514	5.39172	0.1481215	0.25090707	2.4895878	21	6 9.6	21.3
319567 2006 ST_{63}	16.9	X	48.55811	210.91300	155.31497	5.64417	0.1116275	0.27554239	2.3388934	21	—	—
319568 2006 SO_{74}	17.0	X	106.57697	184.42165	47.91438	6.56026	0.0578108	0.25956222	2.4339317	21	10 2.2	20.3
319569 2006 SF_{86}	17.4	X	123.82314	5.38091	198.46315	3.18278	0.1143935	0.25825860	2.4421154	21	9 16.0	20.9
319570 2006 SW_{86}	16.8	X	30.10165	274.76592	16.42855	8.53425	0.0575972	0.25782343	2.4448626	21	9 8.1	19.7
319571 2006 SQ_{87}	17.7	X	344.33292	90.04674	188.03674	2.21404	0.0576285	0.24679982	2.5171330	21	6 2.4	20.6
319572 2006 SL_{88}	16.7	X	7.13392	213.52923	23.45676	13.26427	0.1391094	0.24403659	2.5360983	21	5 5.1	19.3
319573 2006 SZ_{89}	17.8	X	235.16684	349.33113	355.64638	1.96995	0.1011724	0.23852878	2.5749898	21	4 1.5	21.6
319574 2006 SA_{90}	17.4	X	66.15308	67.81665	208.21686	5.66834	0.1094119	0.26212025	2.4180708	21	10 14.3	20.3
319575 2006 SD_{90}	17.2	X	155.65541	69.86099	217.02384	2.61769	0.1774827	0.28238426	2.3009600	21	—	—
319576 2006 SY_{94}	17.7	X	127.66852	238.91592	180.59761	2.50962	0.0936129	0.22971706	2.6404253	21	3 11.3	21.3
319577 2006 SC_{96}	17.5	X	123.08196	275.48720	180.05323	2.06621	0.1681014	0.23334404	2.6129930	21	5 1.4	21.3
319578 2006 SW_{96}	17.5	X	191.65715	75.94840	186.02706	2.40343	0.1513592	0.28347803	2.2950375	21	—	—
319579 2006 SS_{97}	16.6	X	121.86286	54.24134	20.43828	22.30509	0.0803248	0.23139443	2.6276496	21	3 27.3	20.3
319580 2006 SG_{101}	17.6	X	153.97335	140.03190	16.03672	1.28786	0.1188152	0.25463308	2.4652417	21	8 17.6	21.2
319581 2006 SL_{107}	15.9	X	226.45119	181.20772	185.40382	1.75571	0.1021412	0.17564085	3.1578078	21	4 25.3	20.8
319582 2006 SW_{108}	16.5	X	176.15112	14.86605	19.36195	13.66990	0.1543770	0.23508179	2.6001000	21	4 5.9	20.7
319583 2006 SB_{116}	16.5	X	152.95318	234.77243	156.13519	18.38498	0.2221114	0.23064674	2.6333252	21	3 18.0	20.8
319584 2006 SD_{119}	17.1	X	118.81422	65.44702	12.31503	18.11356	0.2411769	0.23231459	2.6207065	21	4 10.2	21.0
319585 2006 SG_{119}	16.9	X	110.61126	258.45830	162.08935	11.53873	0.1765064	0.22872500	2.6480547	21	3 3.9	20.5
319586 2006 SQ_{122}	15.8	X	140.58065	337.04243	346.74526	13.27886	0.0766568	0.21853959	2.7297066	21	—	—
319587 2006 SA_{126}	17.1	X	268.01335	282.12046	120.61272	4.47958	0.1488733	0.25366200	2.4715294	21	7 20.5	20.3
319588 2006 SN_{130}	17.2	X	61.60416	116.57431	216.22646	5.07176	0.2039173	0.27253076	2.3560927	21	—	—
319589 2006 SG_{149}	17.8	X	164.09320	83.76326	4.82753	8.66319	0.0745494	0.24241681	2.5473829	21	5 26.0	21.6
319590 2006 SA_{157}	17.0	X	140.16871	182.56875	218.77062	1.64255	0.1129014	0.23178690	2.6246826	21	3 4.6	20.8
319591 2006 SU_{162}	18.1	X	221.20080	93.50551	188.08654	5.87508	0.3517310	0.29699047	2.2248857	21	—	—
319592 2006 SY_{163}	16.0	X	272.22686	60.55524	276.12903	9.06190	0.1081684	0.18375359	3.0641651	21	5 4.4	20.6
319593 2006 SP_{165}	17.3	X	157.98473	61.61624	336.97279	6.84256	0.1984979	0.23394837	2.6084912	21	3 25.7	21.6
319594 2006 ST_{173}	17.0	X	131.94909	325.37081	338.03913	6.87415	0.1340488	0.28194934	2.3033256	21	—	—
319595 2006 SZ_{178}	16.2	X	246.84831	204.80193	149.69831	1.68073	0.1859592	0.17716495	3.1396712	21	4 24.4	21.3
319596 2006 SS_{179}	17.3	X	151.78220	231.91556	182.77727	6.29993	0.1023493	0.23528887	2.5985743	21	4 3.1	21.1
319597 2006 SB_{184}	17.3	X	99.82655	258.14735	19.19481	8.01954	0.2137153	0.27221963	2.3578876	21	12 1.8	21.3
319598 2006 SJ_{184}	17.7	X	113.40768	140.43254	140.14452	1.12427	0.1927799	0.27473420	2.3434781	21	12 18.1	21.5
319599 2006 ST_{187}	17.7	X	150.46494	62.30165	130.06875	2.04452	0.1286216	0.26240947	2.4162937	21	10 1.4	21.4
319600 2006 SW_{192}	15.7	X	95.68895	328.80433	146.27157	4.99911	0.0411763	0.16986726	3.2289620	21	4 12.9	20.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
319601 2006 SP_{197}	17.1	X	150.70249	333.54858	103.55349	4.54777	0.2303708	0.23788209	2.5796545	21	5 11.1	21.4
319602 2006 SB_{200}	17.1	X	246.18179	170.77335	6.45923	5.39883	0.0477268	0.27475099	2.3433826	21	—	—
319603 2006 SD_{201}	17.2	X	138.48326	71.95013	18.58017	4.17218	0.0936342	0.23677287	2.5877050	21	5 2.2	20.9
319604 2006 SN_{212}	15.2	X	268.82454	241.26016	117.97335	11.82285	0.1003025	0.17981953	3.1086953	21	6 3.6	19.8
319605 2006 SB_{217}	17.3	X	212.83511	14.56621	345.65159	2.14186	0.2173547	0.23960020	2.5673078	21	3 26.4	21.8
319606 2006 SA_{226}	17.5	X	65.41700	342.32332	304.62987	4.13522	0.1478890	0.26750094	2.3855352	21	11 1.7	20.8
319607 2006 SS_{226}	17.5	X	137.95076	252.71355	292.31393	4.06936	0.0557438	0.25855847	2.4402269	21	9 2.2	21.0
319608 2006 SS_{235}	17.4	X	219.52691	302.02634	162.62940	5.73028	0.0692267	0.26044036	2.4284576	21	8 24.1	20.5
319609 2006 SE_{238}	16.4	X	181.02951	297.90917	147.32527	2.27077	0.1003013	0.17910919	3.1169091	21	6 14.3	21.3
319610 2006 SU_{241}	17.7	X	147.34886	273.01162	159.15591	3.15960	0.2212815	0.23683466	2.5872549	21	5 1.2	21.9
319611 2006 SF_{253}	16.0	X	99.87650	92.13991	60.37875	1.23187	0.0158125	0.17862293	3.1225632	21	5 28.9	20.3
319612 2006 SL_{261}	16.2	X	142.31007	246.62992	217.30027	4.54187	0.1534812	0.17268558	3.1937335	21	6 1.9	21.3
319613 2006 SJ_{268}	17.6	X	100.83090	16.56490	244.39166	5.59106	0.1372477	0.26550088	2.3975007	21	11 7.1	21.1
319614 2006 SW_{273}	17.1	X	188.24448	193.72282	211.50900	3.39915	0.1077290	0.23570433	2.5955197	21	4 29.8	21.0
319615 2006 SW_{277}	17.1	X	179.44632	5.63133	41.82569	5.75069	0.2325587	0.23878823	2.5731243	21	4 27.1	21.3
319616 2006 SN_{279}	16.9	X	204.87730	44.64507	236.66210	6.62511	0.1186709	0.28926861	2.2643063	21	—	—
319617 2006 SU_{279}	16.4	X	84.05479	87.30024	7.24449	12.55987	0.2367271	0.22315485	2.6919386	21	3 23.5	19.6
319618 2006 SG_{280}	16.8	X	92.33121	220.22715	105.14498	4.31033	0.1845959	0.27602807	2.3361490	21	—	—
319619 2006 SY_{284}	16.7	X	89.77125	236.78083	66.48157	6.52086	0.2383825	0.27372159	2.3492542	21	12 27.8	20.6
319620 2006 SP_{288}	16.6	X	163.43779	32.55307	31.68950	13.41278	0.1457323	0.23926032	2.5697385	21	4 28.9	20.5
319621 2006 SC_{297}	17.1	X	165.44027	227.53695	183.13693	9.27092	0.1259673	0.23643599	2.5901624	21	4 15.1	21.1
319622 2006 SM_{301}	16.7	X	138.90438	334.01324	99.11601	14.04807	0.1649651	0.23303417	2.6153088	21	4 25.4	20.9
319623 2006 ST_{303}	17.6	X	165.57841	294.65893	166.43037	3.37817	0.0829552	0.24521942	2.5279364	21	6 16.2	21.2
319624 2006 SU_{306}	17.1	X	82.22010	203.72454	121.49433	2.98682	0.2114896	0.27466550	2.3438689	21	—	—
319625 2006 SV_{311}	17.7	X	116.62647	162.57445	291.68674	2.70840	0.1460627	0.23381435	2.6094878	21	4 17.5	21.3
319626 2006 SC_{328}	17.6	X	123.45871	204.77320	79.42525	3.16078	0.2074440	0.27656761	2.3331098	21	12 31.4	21.5
319627 2006 SE_{332}	17.1	X	94.48731	345.33126	343.25191	2.15647	0.2304774	0.27755373	2.3275803	21	—	—
319628 2006 SR_{335}	17.4	X	167.46521	325.64679	62.49218	4.48141	0.2382752	0.23318713	2.6141650	21	3 27.6	21.8
319629 2006 SG_{353}	16.3	X	84.45119	333.07144	43.28591	10.25303	0.1528250	0.21544468	2.7557863	21	—	—
319630 2006 SA_{360}	16.6	X	104.57728	205.69155	127.56869	7.86546	0.2177617	0.27980857	2.3150589	21	—	—
319631 2006 SS_{360}	16.6	X	34.92584	155.89218	45.50265	9.70815	0.0751470	0.23739873	2.5831550	21	5 6.0	19.2
319632 2006 SN_{361}	17.1	X	80.07111	74.03034	44.03252	13.43813	0.2245784	0.22622099	2.6675595	21	4 17.9	20.3
319633 2006 SJ_{366}	15.9	X	286.95786	288.03171	35.57793	16.59258	0.1747875	0.24245491	2.5471160	21	4 24.1	19.4
319634 2006 SR_{366}	17.2	X	192.71060	74.95386	307.73912	7.80547	0.1784461	0.23840297	2.5758957	21	4 2.4	21.6
319635 2006 SC_{367}	16.3	X	196.89533	99.26666	279.09433	12.09101	0.1921672	0.23620994	2.5918146	21	3 29.8	20.9
319636 2006 SE_{368}	16.4	X	123.39119	62.45693	6.60652	18.48904	0.1696002	0.22921862	2.6442517	21	3 28.4	20.0
319637 2006 SM_{376}	17.1	X	163.38024	308.61073	144.56123	7.85177	0.1165911	0.24249450	2.5468388	21	6 5.9	21.0
319638 2006 SL_{388}	16.7	X	82.53201	84.48603	75.94176	12.64119	0.0817277	0.23920638	2.5701248	21	5 24.3	20.0
319639 2006 SU_{390}	17.1	X	131.12544	68.46686	212.43671	4.44795	0.1995040	0.27909617	2.3189967	21	—	—
319640 2006 SV_{391}	16.7	X	165.20749	105.77485	292.27072	13.35615	0.1648065	0.23359590	2.6111145	21	3 23.9	21.2
319641 2006 SY_{391}	16.5	X	155.60187	319.20016	86.41489	16.73201	0.1774296	0.23206578	2.6225794	21	4 10.9	21.0
319642 2006 SO_{393}	16.5	X	292.43086	64.34391	272.85535	2.41452	0.0712268	0.24275271	2.5450325	21	6 4.9	19.8
319643 2006 SM_{399}	16.9	X	99.65615	230.81958	149.68863	3.58113	0.1010409	0.21896996	2.7261287	21	—	—
319644 2006 SB_{400}	16.8	X	113.64523	59.21577	358.67958	8.00600	0.2832335	0.22414069	2.6840395	21	3 19.0	20.6
319645 2006 SN_{403}	16.6	X	298.82601	259.52510	38.48764	14.94976	0.1065663	0.23880146	2.5730293	21	4 17.7	19.8
319646 2006 SL_{404}	17.2	X	188.12221	349.40483	22.72175	5.92961	0.1071700	0.23165027	2.6257145	21	3 20.5	21.1
319647 2006 SW_{410}	17.0	X	88.67713	6.71350	202.48602	5.87818	0.0608697	0.25252072	2.4789706	21	8 2.9	20.4
319648 2006 SA_{412}	16.6	X	91.90899	194.44281	146.45478	11.16770	0.2346778	0.21090183	2.7952189	21	—	—
319649 2006 SC_{412}	16.3	X	205.87562	268.08713	155.50586	12.22162	0.1557653	0.24227022	2.5484104	21	6 10.6	20.6
319650 2006 SR_{412}	16.2	X	137.89394	339.08211	88.50896	17.12930	0.1557208	0.23266287	2.6180906	21	4 18.7	20.5
319651 2006 TO_{7}	17.5	X	204.48436	270.45965	98.00735	1.84918	0.1800746	0.23876656	2.5732800	21	3 31.2	21.7
319652 2006 TE_{13}	16.6	X	150.65917	192.73890	212.21179	11.46911	0.1639437	0.23241438	2.6199563	21	3 23.8	20.8
319653 2006 TG_{14}	17.1	X	164.31979	255.54255	161.78068	12.87252	0.2523652	0.23521555	2.5991142	21	5 1.3	21.7
319654 2006 TA_{16}	17.0	X	201.64055	201.65694	212.65673	4.49238	0.0357659	0.24426061	2.5345475	21	5 27.4	20.3
319655 2006 TR_{22}	16.2	X	85.58371	91.60802	40.24595	21.78547	0.1780488	0.23097902	2.6307991	21	5 3.2	19.5
319656 2006 TO_{25}	15.5	X	306.72145	305.30859	28.86870	12.82702	0.0315938	0.18031087	3.1030452	21	6 28.6	20.0
319657 2006 TZ_{25}	17.3	X	230.15410	17.60339	4.73051	0.80016	0.1077360	0.24232008	2.5480608	21	5 13.7	21.1
319658 2006 TA_{26}	17.7	X	168.70735	346.27144	29.05295	1.71481	0.1581884	0.23002602	2.6380604	21	3 7.5	21.7
319659 2006 TV_{27}	16.8	X	132.84765	220.66284	214.42832	3.80938	0.1185391	0.23170307	2.6253156	21	4 9.1	20.5
319660 2006 TH_{30}	17.1	X	80.49667	96.15677	33.01691	5.75684	0.1004489	0.23185253	2.6241873	21	4 11.2	20.3
319661 2006 TP_{32}	17.9	X	139.63966	357.65610	96.15519	0.46475	0.1588296	0.23587675	2.5942548	21	5 15.2	21.9
319662 2006 TZ_{34}	16.6	X	125.16043	86.96603	20.45705	4.96874	0.1509595	0.23453988	2.6041035	21	5 15.4	20.5
319663 2006 TS_{35}	16.1	X	244.30123	333.79469	31.06375	15.37813	0.1200972	0.24181494	2.5516080	21	5 3.5	20.0
319664 2006 TA_{41}	17.0	X	87.59467	66.09468	30.84689	12.79732	0.1731741	0.22554684	2.6728724	21	3 25.0	20.4
319665 2006 TJ_{42}	17.2	X	346.07177	251.88176	38.61966	4.26029	0.0187076	0.24512450	2.5285890	21	6 25.2	20.3
319666 2006 TD_{43}	16.4	X	116.97378	275.73483	37.09576	6.24835	0.2498796	0.27867087	2.3213556	21	—	—
319667 2006 TO_{45}	17.2	X	172.12909	207.77560	181.23401	2.49947	0.1023842	0.23094282	2.6310740	21	3 23.5	21.1
319668 2006 TS_{46}	17.0	X	137.36288	355.14496	41.82017	5.93550	0.1707266	0.22631422	2.6668269	21	3 6.9	21.0
319669 2006 TY_{47}	17.3	X	156.32388	335.89635	48.86505	3.86363	0.0592454	0.22760916	2.6567023	21	2 27.4	21.0
319670 2006 TJ_{51}	17.6	X	153.75810	114.70667	209.13990	5.70812	0.1579915	0.28458886	2.2890614	21	—	—
319671 2006 TV_{51}	16.3	X	265.45718	268.38840	59.48889	10.85709	0.1274225	0.23812331	2.5779121	21	4 14.7	20.1
319672 2006 TQ_{61}	17.2	X	76.91311	60.83041	355.11961	4.67637	0.1614162	0.21912612	2.7248334	21	1 8.3	20.2
319673 2006 TZ_{66}	17.1	X	163.19483	143.63526	286.64912	7.15658	0.1606746	0.23834901	2.5762845	21	5 6.2	21.2
319674 2006 TX_{71}	16.5	X	155.81635	20.08391	53.67862	15.66367	0.0677415	0.23823434	2.5771111	21	5 1.0	20.1
319675 2006 TH_{74}	15.9	X	202.43810	292.11336	104.59640	6.08972	0.1845767	0.17267026	3.1939224	21	5 7.7	21.2
319676 2006 TX_{75}	16.4	X	110.33721	178.30938	248.44491	5.69449	0.1701814	0.22581725	2.6707382	21	3 8.0	20.1
319677 2006 TL_{76}	16.1	X	190.08745	54.09317	354.61821	13.23118	0.1701983	0.23815517	2.5776822	21	5 1.2	20.5
319678 2006 TE_{77}	16.8	X	139.26551	285.93076	98.46456	7.85973	0.1554216	0.22615776	2.6680567	21	2 19.4	20.7
319679 2006 TT_{78}	16.3	X	143.13254	195.32586	223.01650	12.37321	0.1611844	0.23146232	2.6271358	21	4 1.6	20.4
319680 2006 TV_{80}	16.7	X	272.93163	89.38667	240.11460	10.23115	0.0355391	0.24013509	2.5634939	21	5 3.3	20.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
319681 2006 TU_{86}	17.0	X	101.67117	319.26250	359.69187	2.08409	0.2223419	0.27659711	2.3329439	21	—	—
319682 2006 TL_{88}	16.8	X	106.59176	268.82334	251.64940	3.33703	0.2034304	0.23942936	2.5685288	21	7 10.6	20.6
319683 2006 TL_{89}	17.3	X	50.58244	300.43240	351.62250	3.72860	0.1451436	0.26013044	2.4303861	21	10 19.6	20.3
319684 2006 TU_{89}	16.9	X	119.23445	211.73144	20.48779	6.81992	0.0611586	0.25890301	2.4380614	21	10 14.9	20.1
319685 2006 TB_{91}	16.8	X	122.81610	251.35561	228.78324	8.79763	0.0404330	0.23717572	2.5847740	21	5 16.6	20.1
319686 2006 TS_{92}	17.5	X	117.15196	242.02948	186.58590	5.36102	0.1449803	0.22832257	2.6511653	21	3 17.3	21.0
319687 2006 TL_{94}	16.9	X	69.83479	131.18588	132.51064	2.71765	0.1430556	0.25754109	2.4466491	21	10 8.3	20.1
319688 2006 TL_{95}	17.3	X	249.55491	266.21761	120.59882	24.10016	0.1053822	0.38132363	1.8833899	21	6 12.7	19.8
319689 2006 TH_{100}	17.2	X	140.08408	213.01306	293.50159	2.46483	0.1122279	0.24556945	2.5255336	21	7 19.8	20.9
319690 2006 TF_{102}	16.9	X	80.28811	33.34772	223.73569	6.44208	0.0982361	0.25846105	2.4408400	21	10 3.3	20.1
319691 2006 TS_{103}	17.3	X	164.25014	0.39033	44.42221	2.73818	0.0863843	0.23300634	2.6155171	21	4 3.5	21.1
319692 2006 TJ_{105}	17.5	X	219.43276	219.12133	65.25176	3.29667	0.2067133	0.29244884	2.2478609	21	—	—
319693 2006 TL_{110}	16.7	X	75.94812	276.86145	231.27363	10.90036	0.2409130	0.22941820	2.6427179	21	5 23.3	19.9
319694 2006 TN_{110}	16.2	X	213.12922	84.49220	231.17608	7.84027	0.0692228	0.22531037	2.6747422	21	1 31.9	20.3
319695 2006 TF_{115}	16.4	X	63.62981	101.73582	155.88423	14.14527	0.1280389	0.18868162	3.0105764	21	9 12.9	20.6
319696 2006 TC_{118}	16.6	X	92.05945	252.55365	128.19250	10.48457	0.1663369	0.21587244	2.7521446	21	—	—
319697 2006 TR_{125}	16.9	X	208.57820	25.51185	321.14891	2.39199	0.1880164	0.23325656	2.6136463	21	3 7.3	21.1
319698 2006 TJ_{129}	17.4	X	84.79470	344.57212	268.65723	2.41394	0.0797050	0.25736286	2.4477786	21	10 1.5	20.7
319699 2006 UF_{3}	17.2	X	155.86669	282.92902	136.75238	2.64863	0.1117397	0.23452345	2.6042251	21	4 15.6	21.1
319700 2006 UZ_{4}	17.2	X	104.01226	62.01691	45.91689	4.36192	0.1673775	0.23265045	2.6181837	21	4 25.0	20.8
319701 2006 UQ_{6}	17.3	X	32.01052	165.45742	138.42140	3.22920	0.2389335	0.26221351	2.4174973	21	10 27.6	19.9
319702 2006 UQ_{22}	17.0	X	118.48935	265.98204	181.58747	11.10433	0.1557243	0.23548957	2.5970976	21	4 15.1	20.7
319703 2006 UA_{23}	17.4	X	42.86858	263.82593	183.68732	5.23561	0.3897003	0.21676584	2.7445774	21	—	—
319704 2006 UT_{24}	17.4	X	198.59016	47.80698	317.47824	1.19828	0.1653317	0.23475422	2.6025182	21	3 21.1	21.6
319705 2006 UF_{25}	17.0	X	124.68071	286.92860	7.89279	3.61019	0.1831169	0.27728117	2.3291054	21	—	—
319706 2006 UN_{27}	17.4	X	129.16377	299.50826	213.06962	4.63047	0.1538858	0.24457054	2.5324057	21	7 18.2	21.3
319707 2006 UL_{28}	17.0	X	214.00087	351.16078	14.23027	3.79385	0.2232505	0.23823536	2.5771037	21	4 2.9	21.4
319708 2006 UV_{30}	17.0	X	54.87602	358.13574	214.79424	4.99670	0.1289962	0.24457640	2.5323653	21	7 1.6	19.9
319709 2006 UU_{34}	17.4	X	252.87320	146.28875	39.61861	3.32981	0.1590559	0.27480992	2.3430476	21	—	—
319710 2006 UJ_{38}	17.4	X	315.26358	258.89702	51.49210	1.93864	0.0700978	0.24480006	2.5308226	21	6 1.0	20.4
319711 2006 UD_{41}	16.9	X	80.88928	254.13421	232.18299	2.89726	0.1761047	0.22819425	2.6521592	21	4 18.9	20.0
319712 2006 UN_{44}	17.5	X	136.15090	222.08125	189.64179	0.95835	0.0729351	0.22756192	2.6570700	21	3 9.2	21.0
319713 2006 UV_{45}	17.0	X	202.35700	279.55625	70.58203	5.07304	0.2046230	0.29890752	2.2153626	21	3 2.9	20.6
319714 2006 UP_{48}	16.7	X	169.59978	110.63115	296.93695	6.60730	0.1953801	0.23745236	2.5827660	21	4 14.3	21.1
319715 2006 UM_{50}	17.6	X	323.49002	343.42192	351.93156	6.19803	0.0807540	0.25265120	2.4781170	21	7 21.8	20.4
319716 2006 UR_{52}	17.3	X	71.36455	107.12361	211.79488	4.87697	0.1347287	0.27237896	2.3569679	21	12 20.8	20.7
319717 2006 UW_{56}	16.8	X	102.28270	252.50417	284.94221	4.87966	0.0750832	0.25255138	2.4787699	21	7 11.9	20.1
319718 2006 UX_{56}	17.1	X	270.16691	137.74942	239.86086	4.77921	0.0695982	0.25357418	2.4721000	21	6 30.2	20.3
319719 2006 UX_{60}	16.8	X	269.88034	102.40537	267.55733	3.24186	0.0960413	0.24610268	2.5218843	21	6 15.4	19.9
319720 2006 UF_{61}	17.1	X	83.54957	186.37442	263.53481	3.85476	0.1520806	0.22305003	2.6927820	21	2 28.1	20.3
319721 2006 UN_{71}	17.1	X	109.70294	333.26558	135.62861	2.26752	0.2308199	0.23161755	2.6259618	21	5 12.1	20.9
319722 2006 UO_{75}	17.1	X	59.48810	264.75207	167.88857	3.97486	0.0953624	0.21971234	2.7199844	21	—	—
319723 2006 UX_{80}	17.3	X	173.37804	284.02636	126.48751	3.00792	0.0819339	0.23542954	2.5975390	21	4 21.0	21.1
319724 2006 UY_{80}	17.3	X	111.21614	324.17135	106.62627	2.97512	0.0815044	0.22691502	2.6621175	21	3 5.4	20.9
319725 2006 UT_{81}	17.1	X	153.14448	215.82288	171.40726	2.26369	0.1604376	0.22761954	2.6566216	21	3 6.8	21.3
319726 2006 UO_{87}	16.9	X	270.86910	295.76595	36.60574	3.91367	0.1265773	0.23979719	2.5659016	21	4 22.9	20.5
319727 2006 UG_{93}	17.6	X	113.64303	256.89132	179.61822	3.14008	0.1944008	0.22772766	2.6557806	21	3 30.8	21.2
319728 2006 UV_{95}	16.9	X	105.58037	278.24311	191.99786	7.09201	0.0759393	0.23328804	2.6134111	21	4 16.6	20.2
319729 2006 UK_{104}	16.8	X	9.47592	74.09832	199.53419	5.99111	0.0595607	0.24647742	2.5193275	21	7 6.1	19.7
319730 2006 UP_{108}	16.9	X	100.46023	352.04248	89.10102	4.53685	0.2606694	0.22399716	2.6851860	21	4 2.1	20.6
319731 2006 UF_{112}	16.8	X	28.39195	289.66689	257.50645	2.80825	0.0889353	0.24037587	2.5617818	21	4 3.3	19.7
319732 2006 UB_{115}	17.5	X	33.23201	154.65297	37.25898	1.08833	0.0364825	0.23793945	2.5792399	21	4 17.8	20.5
319733 2006 UA_{117}	17.7	X	111.63267	262.80129	206.00723	7.81142	0.1654167	0.23341445	2.6124674	21	5 5.5	21.4
319734 2006 UN_{118}	17.7	X	132.35284	90.46315	34.50236	4.60725	0.0806604	0.24166581	2.5526577	21	6 8.4	21.2
319735 2006 UU_{120}	15.9	X	246.43317	278.22688	64.07231	4.13414	0.0792932	0.17209341	3.2010557	21	4 19.9	20.6
319736 2006 UV_{120}	17.2	X	79.77053	18.40887	115.78342	2.54795	0.0185120	0.23469661	2.6029441	21	4 5.4	20.6
319737 2006 UP_{124}	17.3	X	163.37866	205.49358	230.74261	2.85557	0.1164435	0.24102780	2.5571603	21	5 13.6	21.2
319738 2006 UY_{127}	17.0	X	33.14117	258.28809	230.54215	8.92421	0.2711210	0.21863678	2.7288976	21	1 21.8	19.2
319739 2006 UU_{128}	17.5	X	121.25318	108.41931	352.35720	1.38554	0.2046776	0.23219355	2.6216172	21	5 9.5	21.4
319740 2006 UP_{134}	17.1	X	52.32465	132.55290	52.12214	8.81272	0.1060963	0.23674637	2.5878981	21	5 14.2	20.1
319741 2006 UP_{135}	16.9	X	66.78017	151.27087	60.14095	5.48240	0.1014175	0.24538115	2.5268255	21	7 15.1	20.0
319742 2006 UU_{136}	17.3	X	145.31283	64.34122	330.91147	3.80735	0.1442982	0.22729609	2.6591412	21	3 6.8	21.4
319743 2006 UA_{137}	16.4	X	161.50112	76.47600	5.28248	6.92151	0.1989090	0.23621896	2.5917487	21	5 21.5	20.8
319744 2006 UT_{140}	17.8	X	134.30799	37.61063	15.33554	5.93457	0.1125670	0.29462615	2.2367727	21	3 6.1	20.6
319745 2006 UL_{143}	16.7	X	353.87316	157.52406	224.88753	6.43263	0.1276664	0.26581250	2.3956265	21	11 26.2	19.0
319746 2006 UO_{143}	16.7	X	259.61064	123.61439	225.24822	6.67583	0.0815621	0.23855463	2.5748039	21	5 6.9	20.0
319747 2006 UP_{147}	17.3	X	155.17986	128.33249	262.75335	2.89108	0.2318270	0.23042985	2.6349774	21	3 17.4	21.6
319748 2006 UP_{152}	16.7	X	46.82170	142.20997	329.96935	11.47785	0.2145109	0.22462928	2.6801461	21	2 2.1	19.0
319749 2006 UW_{164}	16.9	X	145.85073	353.57676	51.75011	7.04978	0.1609435	0.23032360	2.6357877	21	3 24.9	21.0
319750 2006 UF_{172}	17.6	X	90.34068	61.44798	4.03704	2.55457	0.1440000	0.22047529	2.7137058	21	2 8.2	20.8
319751 2006 UG_{174}	17.1	X	30.15716	169.58768	285.81518	3.39134	0.3103175	0.21229055	2.7830154	21	—	—
319752 2006 UW_{177}	17.0	X	168.13244	282.32906	86.37635	4.05971	0.1914738	0.22985110	2.6393987	21	3 2.4	21.3
319753 2006 UU_{178}	17.2	X	338.18493	233.37808	143.39756	4.15003	0.0815992	0.26156756	2.4214757	21	10 18.4	19.7
319754 2006 UZ_{178}	17.0	X	130.08435	230.19610	192.29718	11.26740	0.1741103	0.22921133	2.6443077	21	3 27.9	20.7
319755 2006 UC_{181}	16.5	X	124.79238	224.87532	184.07147	12.43663	0.1621923	0.22598058	2.6694511	21	3 2.7	20.4
319756 2006 UY_{183}	16.6	X	150.92159	147.12889	256.68431	12.79033	0.2485233	0.23108444	2.6299990	21	3 26.2	21.3
319757 2006 UB_{184}	17.6	X	173.25979	315.33882	71.56634	5.30603	0.2160134	0.23429310	2.6059318	21	3 30.2	22.0
319758 2006 UK_{191}	16.2	X	107.05039	219.21470	253.17431	13.47133	0.0921323	0.23414412	2.6070371	21	4 19.7	19.9
319759 2006 UX_{191}	16.7	X	168.62816	173.85164	240.99995	11.02275	0.1515934	0.23564040	2.5959892	21	4 21.9	20.9
319760 2006 US_{196}	16.4	X	34.97033	73.55433	39.99033	4.85222	0.0597204	0.22033378	2.7148676	21	1 10.2	19.7

ELEMENTS AND OPPOSITION DATES IN 2021

ECLIPTIC AND EQUINOX 2000.0, EPOCH 2021 JULY 5.0 TT

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
319761 2006 UY_{203}	17.0	X	199.66394	103.62339	278.37486	5.77862	0.1699283	0.23665862	2.5885378	21	4 9.0	21.3
319762 2006 UG_{207}	17.5	X	118.34250	77.83486	90.21148	0.67858	0.0948067	0.24757093	2.5119035	21	7 22.1	21.0
319763 2006 UQ_{208}	17.9	X	220.64506	230.88820	44.92411	3.03045	0.1716623	0.28971188	2.2619961	21	—	—
319764 2006 UP_{211}	16.7	X	186.95046	55.44979	340.74315	9.31214	0.2023882	0.23636322	2.5906940	21	4 14.9	21.3
319765 2006 UJ_{214}	16.9	X	175.86826	145.97503	328.98783	2.88032	0.0957797	0.24438733	2.5336712	21	7 16.9	20.5
319766 2006 UT_{214}	17.0	X	152.16364	141.63121	272.64200	12.81292	0.2351879	0.23294347	2.6159876	21	4 7.8	21.6
319767 2006 UZ_{214}	17.7	X	115.99142	101.22987	17.56441	5.28561	0.1599454	0.23489509	2.6014776	21	5 20.9	21.5
319768 2006 UW_{226}	17.5	X	119.77130	250.09148	155.66757	1.16618	0.2105815	0.22491752	2.6778559	21	3 1.3	21.3
319769 2006 UD_{229}	16.8	X	169.63604	175.61788	198.28677	2.83188	0.2713584	0.22896168	2.6462295	21	3 11.8	21.4
319770 2006 UH_{229}	16.9	X	224.32811	233.60333	139.98471	3.66133	0.2107042	0.23830815	2.5765789	21	4 23.2	21.2
319771 2006 UY_{255}	17.0	X	252.11622	211.73658	52.11996	7.36042	0.1149898	0.28824055	2.2696872	21	—	—
319772 2006 UG_{258}	17.3	X	118.46919	207.30204	16.00731	2.83627	0.1319508	0.25984951	2.4321374	21	10 7.8	20.9
319773 2006 UM_{264}	17.6	X	67.83746	315.42684	337.35844	2.26468	0.1703079	0.26763828	2.3847191	21	11 16.2	20.9
319774 2006 UJ_{265}	17.8	X	338.77032	76.17049	199.00331	5.18583	0.2228702	0.31414330	2.1431415	21	4 17.5	19.1
319775 2006 UC_{267}	17.0	X	160.70155	84.36781	314.46153	3.74939	0.2183830	0.23088875	2.6314848	21	3 30.2	21.3
319776 2006 UH_{272}	17.2	X	241.62739	184.72863	216.27891	0.39931	0.1372737	0.24448115	2.5330230	21	6 17.6	20.8
319777 2006 UF_{273}	16.7	X	10.39958	214.88562	25.34698	7.33731	0.1464564	0.23866786	2.5739894	21	5 19.0	19.2
319778 2006 UX_{278}	17.4	X	146.93553	15.77666	254.09843	3.10741	0.1882801	0.27588988	2.3369291	21	—	—
319779 2006 UZ_{282}	17.2	X	36.31418	253.32084	25.04501	6.57604	0.1291895	0.25487575	2.4636766	21	9 9.3	19.9
319780 2006 UA_{283}	17.4	X	48.47168	76.85252	33.19636	12.58601	0.2207118	0.21932267	2.7232052	21	2 9.7	20.1
319781 2006 UK_{284}	16.5	X	57.95951	188.50690	228.59049	4.93535	0.0304928	0.21458153	2.7631714	21	—	—
319782 2006 UV_{286}	16.8	X	171.14509	14.05094	55.43545	4.98970	0.2023610	0.23624653	2.5915470	21	5 16.4	20.9
319783 2006 UU_{289}	16.8	X	68.96346	69.32624	36.85235	12.71130	0.1680973	0.22205772	2.7007982	21	3 10.2	20.0
319784 2006 US_{305}	17.3	X	227.98941	46.98654	169.65473	4.64204	0.2157861	0.28713427	2.2755132	21	—	—
319785 2006 UG_{328}	16.9	X	60.96138	289.15636	166.51966	12.69343	0.2943009	0.21878873	2.7276339	21	2 19.3	19.2
319786 2006 UE_{332}	16.9	X	123.15498	273.20089	173.96119	9.54306	0.0851429	0.23456241	2.6039368	21	4 10.9	20.4
319787 2006 UD_{333}	16.7	X	106.60817	335.96272	147.43790	12.24641	0.0809163	0.23415927	2.6069246	21	5 9.9	20.4
319788 2006 UM_{333}	15.7	X	105.24492	131.84361	32.30199	5.51395	0.0900235	0.18106554	3.0944170	21	6 30.3	20.2
319789 2006 UJ_{336}	17.0	X	97.37984	241.37388	12.34169	1.99758	0.1735987	0.25724777	2.4485086	21	10 27.8	20.7
319790 2006 UL_{336}	17.1	X	68.56899	203.22346	91.85269	3.65845	0.1785736	0.26365010	2.4087077	21	11 21.7	20.6
319791 2006 UB_{337}	17.2	X	78.91766	20.75943	221.62006	5.08558	0.1699681	0.25456702	2.4656681	21	9 21.2	20.7
319792 2006 UG_{338}	17.4	X	94.55356	299.07970	213.11379	3.75309	0.2255196	0.23630378	2.5911284	21	6 19.3	21.0
319793 2006 UL_{361}	16.8	X	173.68440	59.71034	317.31144	6.99511	0.1872795	0.23006652	2.6377508	21	3 12.7	21.2
319794 2006 VW_{3}	17.2	X	1.33497	348.56559	339.43410	2.09756	0.2018344	0.25805271	2.4434142	21	9 24.5	18.9
319795 2006 VJ_{5}	17.5	X	142.10269	27.95633	55.86441	2.10414	0.1047759	0.23562618	2.5960937	21	4 29.9	21.2
319796 2006 VK_{6}	16.8	X	287.72928	250.78650	223.15723	6.07415	0.0589065	0.26608126	2.3940131	21	12 13.2	19.4
319797 2006 VH_{14}	17.3	X	114.91802	108.48540	313.25897	1.01768	0.1910132	0.22543114	2.6737868	21	3 12.7	21.0
319798 2006 VJ_{14}	17.4	X	263.91222	75.49368	284.07698	1.21721	0.0869974	0.24391018	2.5369745	21	5 25.5	20.9
319799 2006 VS_{16}	17.7	X	172.87750	109.49265	277.00590	1.80208	0.1248199	0.23050914	2.6343731	21	3 21.5	21.7
319800 2006 VE_{21}	17.5	X	236.96522	69.06887	305.90348	1.86803	0.1744944	0.24387937	2.5371882	21	5 5.8	21.6
319801 2006 VS_{30}	16.5	X	88.41066	243.79419	250.60606	8.34211	0.1317380	0.22999190	2.6383213	21	5 2.8	20.0
319802 2006 VY_{34}	16.9	X	189.20086	139.06624	236.72703	3.54684	0.1931410	0.23283616	2.6167914	21	3 25.4	21.4
319803 2006 VV_{36}	17.0	X	127.55612	163.86892	259.57722	5.79800	0.1694156	0.22810832	2.6528252	21	3 23.4	21.0
319804 2006 VR_{45}	17.1	X	153.05583	239.60096	152.99735	3.44978	0.1576333	0.22853345	2.6495342	21	3 13.6	21.2
319805 2006 VZ_{47}	17.5	X	172.07956	129.54173	297.54897	1.32253	0.1487139	0.23880115	2.5730315	21	5 11.9	21.5
319806 2006 VY_{48}	16.6	X	170.60183	327.31527	47.06980	6.55774	0.0723518	0.22580241	2.6708551	21	3 5.5	20.6
319807 2006 VJ_{50}	17.4	X	172.32715	90.54113	294.82801	1.11044	0.2206319	0.22980927	2.6397189	21	3 25.0	21.9
319808 2006 VN_{50}	15.6	X	220.14876	321.14162	58.67189	15.40677	0.1981010	0.23734519	2.5835434	21	4 29.6	19.9
319809 2006 VX_{50}	16.3	X	121.46596	351.16477	61.47728	10.39673	0.0878061	0.22200830	2.7011990	21	3 1.1	20.2
319810 2006 VQ_{52}	16.6	X	324.12321	230.49625	29.01072	10.85050	0.1314029	0.23449219	2.6044566	21	3 29.8	19.7
319811 2006 VB_{54}	17.2	X	301.36255	280.26277	25.28321	6.68810	0.0373231	0.23837028	2.5761312	21	5 8.9	20.5
319812 2006 VA_{60}	17.2	X	105.52928	21.24056	102.53673	2.74145	0.1260937	0.23172583	2.6251438	21	5 12.5	20.8
319813 2006 VE_{61}	16.8	X	45.54095	234.58619	58.35100	7.16006	0.1340739	0.25632376	2.4543894	21	10 15.4	19.7
319814 2006 VB_{66}	17.2	X	185.10286	265.07844	133.85407	0.97591	0.1108231	0.23343923	2.6122826	21	4 19.0	21.1
319815 2006 VV_{67}	16.6	X	124.30438	156.54771	243.69260	9.10669	0.1529568	0.22353963	2.6888487	21	2 15.9	20.5
319816 2006 VS_{80}	17.0	X	187.38698	232.64501	194.38075	4.27611	0.1171016	0.23831287	2.5765449	21	5 27.5	20.9
319817 2006 VH_{83}	17.9	X	100.78521	126.99354	296.13132	0.95352	0.1744495	0.22236606	2.6983009	21	2 22.9	21.4
319818 2006 VK_{83}	17.3	X	148.82746	154.54656	267.25219	2.42179	0.0846413	0.23136983	2.6278358	21	4 5.9	21.2
319819 2006 VN_{92}	16.6	X	355.46954	236.56990	113.21544	6.73232	0.1410419	0.25770494	2.4456120	21	10 14.7	19.0
319820 2006 VD_{99}	17.0	X	64.39295	57.58077	94.09418	5.36279	0.1069695	0.23114258	2.6295580	21	4 20.5	20.1
319821 2006 VT_{104}	16.8	X	159.19631	246.97684	128.61658	4.71175	0.2109381	0.22805736	2.6532204	21	3 3.6	21.1
319822 2006 VA_{105}	16.5	X	187.03495	188.74320	39.89914	6.47067	0.2956304	0.26862058	2.3789019	21	12 9.3	20.7
319823 2006 VH_{105}	16.7	X	219.47002	293.02135	47.54243	8.08330	0.2137754	0.23310697	2.6147643	21	3 13.0	21.2
319824 2006 VC_{110}	16.6	X	239.35434	329.46492	359.69628	5.32140	0.2818358	0.23554060	2.5967225	21	3 9.0	21.1
319825 2006 VQ_{110}	17.0	X	193.59261	27.13471	25.03079	6.59441	0.0118332	0.23607194	2.5928246	21	5 13.1	20.5
319826 2006 VM_{115}	17.4	X	185.10495	298.50268	67.11927	3.00771	0.1041720	0.22903250	2.6456840	21	3 9.7	21.3
319827 2006 VW_{115}	17.2	X	94.06887	273.63470	215.58803	4.24452	0.2369014	0.22898511	2.6460490	21	5 21.4	20.8
319828 2006 VU_{117}	16.9	X	68.27407	226.82299	44.35016	5.34795	0.1805530	0.25681667	2.4512480	21	10 21.1	20.3
319829 2006 VT_{122}	17.2	X	120.38321	125.07689	9.45032	3.62452	0.1635404	0.23501524	2.6005908	21	6 17.0	21.0
319830 2006 VO_{123}	17.5	X	179.22863	5.32882	39.88399	5.30717	0.1197266	0.23309661	2.6148418	21	4 21.3	21.5
319831 2006 VE_{127}	15.6	X	8.69832	317.49935	291.10435	7.12159	0.1678372	0.17315351	3.1879770	21	6 3.6	19.2
319832 2006 VN_{132}	17.2	X	19.16132	74.42339	123.20795	3.16058	0.0944397	0.23004789	2.6378932	21	4 7.2	20.1
319833 2006 VU_{134}	16.2	X	207.46195	345.10412	47.76109	15.14513	0.2150847	0.23711583	2.5852091	21	5 2.3	20.6
319834 2006 VD_{137}	17.1	X	83.95753	210.49061	244.66368	4.39591	0.0603292	0.22314261	2.6920371	21	2 22.4	20.7
319835 2006 VO_{151}	17.4	X	88.04289	80.91236	11.01392	2.75152	0.1576738	0.22440650	2.6819196	21	3 12.7	20.6
319836 2006 VG_{155}	17.0	X	162.11736	331.79302	93.78658	9.43154	0.1832667	0.23545190	2.5973745	21	5 6.1	21.3
319837 2006 VQ_{169}	16.2	X	188.10703	272.23004	159.70111	12.19168	0.1526719	0.23823624	2.5770974	21	6 4.9	20.6
319838 2006 VX_{169}	16.9	X	84.17394	291.94928	222.43250	4.00334	0.1375750	0.23121809	2.6289854	21	5 26.8	20.1
319839 2006 VB_{171}	16.4	X	13.52035	158.04621	246.85048	7.93468	0.1005049	0.20042467	2.8918023	21	—	—
319840 2006 WJ	16.2	X	179.65374	285.12142	105.25392	30.13476	0.3053675	0.23226117	2.6211084	21	4 23.9	21.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
319841 2006 WB_2	17.3	X	132.31494	237.75878	177.77604	2.72473	0.1159648	0.22587896	2.6702517	21	3 15.3	21.1
319842 2006 WY_4	17.4	X	78.57459	225.43602	17.88712	7.02366	0.0924016	0.25637311	2.4540745	21	9 15.2	20.5
319843 2006 WT_{11}	16.3	X	266.14334	305.25017	41.54399	6.37306	0.1686459	0.24074540	2.5591597	21	4 30.9	20.0
319844 2006 WA_{12}	17.3	X	100.33689	269.00275	171.26363	2.69339	0.1718752	0.22293946	2.6936723	21	3 16.5	20.9
319845 2006 WT_{16}	16.3	X	304.50883	225.04104	51.61411	15.96943	0.0854716	0.23360813	2.6110233	21	4 5.8	19.9
319846 2006 WT_{17}	17.2	X	111.98324	241.86553	273.26256	3.25234	0.2228475	0.23855598	2.5747941	21	7 11.5	21.2
319847 2006 WM_{18}	17.1	X	88.12641	223.75202	13.88248	6.86341	0.0750534	0.25513823	2.4619866	21	9 16.7	20.3
319848 2006 WO_{19}	17.7	X	104.07799	82.69967	350.82230	3.68706	0.1001280	0.22597356	2.6695064	21	3 1.6	21.1
319849 2006 WK_{22}	15.5	X	280.86942	136.04857	252.22918	15.16191	0.2213401	0.18136208	3.0910430	21	7 3.9	20.1
319850 2006 WB_{23}	16.1	X	239.04873	225.26550	82.31324	15.78689	0.1180742	0.22556369	2.6727392	21	2 25.4	20.5
319851 2006 WG_{31}	16.9	X	352.26683	85.24200	138.85011	2.30542	0.0319767	0.23200594	2.6230304	21	4 3.7	20.2
319852 2006 WP_{32}	16.8	X	56.37152	289.16139	196.12134	6.27778	0.1200840	0.22310683	2.6923249	21	2 28.1	19.8
319853 2006 WY_{33}	17.1	X	160.57246	232.17706	152.54945	2.89823	0.1312704	0.22730894	2.6590410	21	3 9.2	21.0
319854 2006 WD_{34}	16.4	X	142.95307	222.86818	224.03808	10.88868	0.0032644	0.23401660	2.6079841	21	4 22.6	19.9
319855 2006 WE_{39}	17.7	X	293.56097	0.58953	95.68709	2.38135	0.1423751	0.26182520	2.4198870	21	11 18.7	20.0
319856 2006 WD_{46}	17.3	X	243.06946	167.61454	157.02311	4.73650	0.0583165	0.23344661	2.6122275	21	3 20.3	20.9
319857 2006 WA_{47}	17.3	X	59.67230	148.04972	24.82697	2.72473	0.1011825	0.23120588	2.6290780	21	5 8.8	20.3
319858 2006 WM_{48}	17.0	X	93.46146	263.67983	48.78592	6.01909	0.1660798	0.26874264	2.3781815	21	—	—
319859 2006 WF_{49}	17.9	X	3.01144	334.91016	188.18729	2.90080	0.1344390	0.28558243	2.2837491	21	—	—
319860 2006 WH_{53}	16.2	X	192.70954	243.58543	159.68737	13.62526	0.2215442	0.23634095	2.5908567	21	5 5.9	20.9
319861 2006 WJ_{54}	16.7	X	233.82428	71.95469	297.90813	2.01576	0.2311965	0.23875294	2.5733779	21	4 23.1	21.1
319862 2006 WS_{54}	16.4	X	345.11619	299.31012	255.49457	8.27407	0.0707563	0.22066127	2.7121808	21	2 7.1	19.9
319863 2006 WJ_{56}	17.2	X	152.72049	328.14959	57.52229	5.45157	0.1890678	0.29220831	2.2490943	21	3 2.2	20.4
319864 2006 WA_{62}	16.3	X	156.39404	289.72030	152.74420	15.74343	0.1748937	0.23535573	2.5980821	21	5 22.3	20.8
319865 2006 WC_{67}	16.8	X	221.51573	215.35224	141.42318	4.32887	0.1514945	0.23368899	2.6104210	21	4 2.7	21.0
319866 2006 WY_{70}	17.1	X	160.60067	123.72081	283.24719	2.45812	0.0153132	0.23064832	2.6333132	21	3 24.8	20.7
319867 2006 WE_{73}	17.0	X	319.82978	51.67254	243.81831	3.89141	0.0987882	0.24131189	2.5551529	21	5 13.7	20.1
319868 2006 WT_{73}	17.2	X	60.09083	314.83159	323.41788	1.78976	0.1864301	0.25755286	2.4465746	21	10 19.7	20.4
319869 2006 WS_{74}	17.5	X	41.03490	353.10305	297.35853	1.03679	0.1359884	0.25533860	2.4606985	21	10 2.0	20.4
319870 2006 WH_{77}	17.1	X	157.42601	345.08875	239.26678	3.41539	0.1545413	0.26178604	2.4201283	21	11 16.0	20.8
319871 2006 WZ_{89}	16.7	X	12.24038	202.77684	93.89032	7.95171	0.0463039	0.24490103	2.5301269	21	8 16.0	19.8
319872 2006 WW_{91}	17.2	X	89.91087	71.05129	210.50360	2.00342	0.1673475	0.26355604	2.4092807	21	11 25.1	20.7
319873 2006 WC_{101}	16.8	X	220.14629	21.45531	27.60364	4.32779	0.2010435	0.24172334	2.5522526	21	6 1.1	21.0
319874 2006 WF_{102}	17.3	X	102.16535	281.74144	116.66232	8.59829	0.2152319	0.28683499	2.2770958	21	1 14.4	19.4
319875 2006 WE_{106}	17.6	X	144.24513	24.79455	75.67629	3.06342	0.0887430	0.23480337	2.6021550	21	5 22.7	21.3
319876 2006 WA_{108}	15.7	X	254.00423	303.68339	92.73114	11.02216	0.1010717	0.17877720	3.1207666	21	6 30.9	20.2
319877 2006 WD_{109}	16.8	X	126.56839	327.19322	81.11393	6.28328	0.0406267	0.22178154	2.7030399	21	2 20.5	20.5
319878 2006 WN_{111}	17.6	X	145.34490	26.26267	86.16269	5.05763	0.0977794	0.23623869	2.5916044	21	6 9.4	21.3
319879 2006 WW_{111}	16.5	X	110.39725	292.61123	135.85878	6.66462	0.3578658	0.22378372	2.6868931	21	4 9.4	20.7
319880 2006 WV_{112}	17.0	X	331.78665	199.49365	30.65781	5.74008	0.1234812	0.22254301	2.6968704	21	3 4.6	20.4
319881 2006 WQ_{115}	16.7	X	90.49623	85.64387	322.01398	8.66201	0.3083199	0.21831204	2.7316030	21	2 10.8	19.9
319882 2006 WB_{123}	18.0	X	208.74801	58.67645	219.33870	1.88662	0.1131743	0.28601083	2.2814681	21	—	—
319883 2006 WC_{124}	17.1	X	322.45617	245.58025	68.50062	3.85732	0.0901329	0.24430603	2.5342333	21	6 15.2	19.8
319884 2006 WQ_{126}	16.4	X	112.24118	16.20231	46.65011	18.53969	0.1766527	0.22288361	2.6941223	21	3 20.1	20.5
319885 2006 WH_{129}	18.2	X	21.10122	214.95204	261.64269	1.29100	0.1442200	0.28095661	2.3087481	21	—	—
319886 2006 WX_{132}	17.4	X	135.76655	173.76598	248.84909	1.17893	0.0698218	0.22822985	2.6518834	21	3 21.8	21.1
319887 2006 WO_{148}	16.3	X	123.27260	322.32135	3.88411	1.77301	0.0644287	0.20706309	2.8296600	21	—	—
319888 2006 WX_{156}	16.6	X	281.81281	338.23864	349.94329	2.92272	0.2024429	0.24198427	2.5504176	21	4 18.9	20.2
319889 2006 WE_{157}	16.6	X	99.11649	178.86492	259.74042	10.61034	0.1468120	0.22508690	2.6765123	21	3 2.6	20.3
319890 2006 WN_{157}	17.2	X	136.97486	80.99322	352.51951	4.76358	0.2496035	0.23058282	2.6338118	21	4 23.7	21.6
319891 2006 WH_{164}	16.9	X	115.95987	25.35962	85.86107	4.68432	0.1546847	0.23144027	2.6273026	21	5 12.7	20.7
319892 2006 WK_{174}	17.3	X	161.51955	299.94493	103.45714	2.78094	0.0913853	0.22832944	2.6511122	21	3 31.3	21.1
319893 2006 WB_{176}	16.7	X	295.37656	327.27451	154.81455	2.55227	0.0453479	0.19749499	2.9203305	21	12 19.8	20.6
319894 2006 WG_{185}	16.4	X	142.79968	62.79181	336.22926	26.08523	0.3214859	0.22586561	2.6703569	21	3 16.5	21.3
319895 2006 WJ_{187}	15.8	X	13.83469	204.11786	90.78659	12.69176	0.1174377	0.18396985	3.0617633	21	8 18.8	19.6
319896 2006 WY_{188}	16.5	X	165.28292	294.58230	83.71442	7.27873	0.0509928	0.22455418	2.6807436	21	3 2.9	20.4
319897 2006 WZ_{192}	16.7	X	79.72814	24.48578	84.94242	3.49224	0.0415780	0.22343269	2.6897066	21	3 8.8	20.1
319898 2006 WL_{193}	17.1	X	251.55928	186.40109	168.18873	1.69290	0.2402939	0.24006332	2.5640049	21	4 20.1	21.2
319899 2006 WR_{201}	17.1	X	208.17404	318.73186	188.42770	2.71962	0.0944784	0.24725685	2.5140302	21	10 3.2	20.4
319900 2006 WB_{202}	16.3	X	51.39141	236.43340	274.49872	11.75684	0.1157777	0.22507993	2.6765675	21	3 21.0	19.7
319901 2006 WW_{203}	16.8	X	66.37712	22.58552	111.42326	5.96650	0.0588270	0.21972127	2.7199107	21	3 26.3	20.3
319902 2006 WE_{204}	16.6	X	174.89480	90.54528	314.92183	5.61954	0.0376883	0.22377634	2.6869521	21	4 10.7	20.5
319903 2006 WK_{205}	16.5	X	172.09695	299.78039	68.28404	7.06836	0.0527527	0.22327147	2.6910012	21	2 26.4	20.4
319904 2006 XC_4	16.5	X	175.31285	89.51309	280.21934	9.93773	0.3222326	0.22944797	2.6424893	21	3 8.6	21.5
319905 2006 XR_6	16.2	X	77.87234	249.69811	221.92586	9.59012	0.1103793	0.22321745	2.6914353	21	3 12.9	19.7
319906 2006 XN_8	16.2	X	164.75393	278.27031	104.56067	10.42204	0.1099868	0.22528360	2.6749541	21	3 13.9	20.4
319907 2006 XP_{15}	16.8	X	197.02016	164.00547	208.85294	2.22019	0.2096406	0.23296466	2.6158290	21	3 29.5	21.1
319908 2006 XC_{23}	16.9	X	122.23328	150.62699	251.16256	5.74716	0.2796102	0.22215703	2.6999932	21	3 4.8	21.2
319909 2006 XE_{31}	16.5	X	97.82626	352.78759	90.84437	4.82443	0.2875636	0.22148113	2.7054835	21	4 6.4	20.2
319910 2006 XM_{31}	16.9	X	311.23756	170.95375	46.46727	3.87669	0.0227917	0.21931423	2.7232751	21	2 2.7	20.6
319911 2006 XG_{34}	16.0	X	336.24590	343.74135	293.11654	13.37639	0.0612410	0.23345050	2.6121985	21	5 15.9	19.6
319912 2006 XD_{38}	17.0	X	353.17311	89.72042	22.52910	1.54139	0.1394398	0.20333572	2.8641357	21	—	—
319913 2006 XL_{38}	16.8	X	122.45447	118.60748	325.73125	1.79545	0.0901900	0.22314855	2.6919893	21	4 5.7	20.6
319914 2006 XN_{46}	16.1	X	127.00611	334.87705	96.46032	10.29235	0.1291023	0.22559685	2.6724774	21	4 5.7	20.1
319915 2006 XF_{49}	16.8	X	102.01239	305.64912	124.38204	3.82603	0.0554227	0.21620763	2.7492994	21	2 17.8	20.3
319916 2006 XC_{58}	17.1	X	45.06760	84.62130	63.97093	3.80640	0.0338944	0.22046740	2.7137706	21	3 11.9	20.5
319917 2006 XZ_{64}	16.3	X	13.09696	337.19324	213.09781	7.16256	0.1281700	0.22411895	2.6842131	21	3 13.0	19.3
319918 2006 XL_{69}	15.8	X	181.90041	65.53865	111.09715	10.36873	0.0680367	0.18257799	3.0773042	21	10 11.7	20.6
319919 2006 XP_{69}	17.0	X	176.88124	64.46545	288.81842	5.38156	0.0410565	0.21596046	2.7513968	21	2 8.9	20.9
319920 2006 XS_{71}	17.0	X	142.68124	293.46703	74.56130	5.61505	0.1293221	0.21976464	2.7195529	21	1 31.0	21.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
319921 2006 XO_{73}	16.5	X	265.05026	345.83237	298.52919	4.54826	0.0557482	0.21928465	2.7235200	21	2 22.9	20.5
319922 2006 YV_{11}	16.1	X	0.40903	250.40939	292.50856	7.99095	0.0881267	0.21672558	2.7449173	21	2 14.1	19.6
319923 2006 YE_{17}	17.1	X	275.53724	185.57044	108.62398	6.61397	0.1430468	0.28903634	2.2655192	21	3 3.9	20.3
319924 2006 YR_{17}	15.8	X	328.80996	282.36498	298.51315	4.47658	0.0476863	0.21276303	2.7788938	21	2 24.6	19.6
319925 2006 YZ_{19}	16.4	X	17.81937	207.01932	306.39778	15.12725	0.1120677	0.21096490	2.7946617	21	2 3.5	19.7
319926 2006 YH_{20}	16.9	X	143.16262	253.09462	193.81402	4.07699	0.0680375	0.23312373	2.6146390	21	5 1.9	20.5
319927 2006 YX_{22}	17.0	X	111.11250	87.23928	311.34816	4.34817	0.0672177	0.21436263	2.7650521	21	1 22.6	20.7
319928 2006 YB_{26}	16.4	X	76.29695	200.29850	295.00204	10.76473	0.1276071	0.22282412	2.6946017	21	4 11.8	20.0
319929 2006 YF_{26}	17.1	X	174.86712	267.67035	69.90276	2.90749	0.0929248	0.21420432	2.7664144	21	1 24.7	21.3
319930 2006 YH_{35}	16.8	X	332.25593	240.33848	355.05741	4.13074	0.0529311	0.22086903	2.7104798	21	3 19.5	20.1
319931 2006 YD_{38}	16.9	X	168.49768	39.92168	2.80532	4.37448	0.1198946	0.22359065	2.6884396	21	4 7.0	20.9
319932 2006 YL_{41}	16.1	X	211.33686	58.74861	272.21230	16.41360	0.1659920	0.22503409	2.6769310	21	2 13.3	20.9
319933 2006 YQ_{42}	16.7	X	191.79296	88.66787	14.75451	5.14536	0.1437618	0.23934661	2.5691208	21	7 18.5	20.7
319934 2006 YS_{45}	17.2	X	216.55917	155.60211	192.16050	1.50099	0.1007674	0.22862831	2.6488013	21	3 17.8	21.0
319935 2006 YS_{48}	16.9	X	38.92457	271.74158	115.35208	6.30737	0.1348328	0.26649233	2.3915506	21	—	—
319936 2006 YE_{50}	16.9	X	153.45307	119.01648	297.05136	4.40589	0.0571377	0.22205430	2.7008259	21	3 31.9	20.8
319937 2006 YB_{53}	16.3	X	339.28552	278.37693	150.84700	11.03980	0.1065487	0.18793910	3.0185007	21	12 14.5	20.1
319938 2006 YD_{53}	15.5	X	231.44099	259.24225	294.78568	20.36052	0.2608715	0.18563153	3.0434644	21	11 27.2	20.6
319939 2007 AR_2	16.5	X	351.17122	243.27370	94.23354	2.97324	0.2135625	0.25292923	2.4763006	21	9 17.5	18.2
319940 2007 AQ_{15}	16.5	X	206.16885	62.19604	280.23644	8.11436	0.1355487	0.22051318	2.7133949	21	2 26.3	20.9
319941 2007 BP_8	15.7	X	36.43244	9.29234	114.67486	13.74874	0.1215595	0.21024551	2.8010331	21	1 28.8	18.8
319942 2007 BM_9	16.6	X	31.09698	128.53470	33.48381	3.84552	0.1322447	0.21712797	2.7415249	21	3 11.9	19.5
319943 2007 BE_{11}	16.8	X	104.28799	45.35876	353.80175	5.91138	0.0747287	0.20863209	2.8154553	21	1 17.9	20.5
319944 2007 BR_{16}	16.5	X	58.73736	274.52695	181.07409	3.30629	0.1336105	0.21194084	2.7860759	21	1 27.8	19.6
319945 2007 BE_{17}	16.2	X	16.85667	339.24758	128.44103	16.00796	0.0939371	0.20391757	2.8586849	21	—	—
319946 2007 BG_{20}	16.3	X	358.31903	92.45260	91.60103	8.58803	0.1640978	0.21322382	2.7748887	21	2 9.9	19.4
319947 2007 BU_{26}	16.5	X	157.40968	268.76743	120.66996	4.86383	0.1136503	0.21884822	2.7271396	21	3 12.7	20.6
319948 2007 BZ_{27}	16.5	X	127.47998	20.48975	323.36037	5.57402	0.0746014	0.20281059	2.8690776	21	—	—
319949 2007 BC_{28}	16.7	X	86.49090	136.09284	315.02378	8.20411	0.1096270	0.21584534	2.7523749	21	2 28.8	20.2
319950 2007 BJ_{32}	18.1	X	43.61516	295.77067	134.60670	2.10560	0.1875441	0.27456261	2.3444544	21	—	—
319951 2007 BE_{34}	16.8	X	17.65158	279.81421	297.42762	1.70211	0.1192660	0.22386481	2.6862442	21	5 1.2	19.7
319952 2007 BN_{36}	15.9	X	171.97770	132.03707	80.88262	6.75255	0.0987177	0.18335122	3.0686464	21	11 9.4	20.7
319953 2007 BY_{37}	18.2	X	201.10803	265.25802	157.10263	2.16796	0.0534016	0.30033136	2.2083552	21	6 3.9	21.0
319954 2007 BW_{39}	17.0	X	20.65489	69.10685	113.78578	6.14273	0.0524631	0.21882324	2.7273472	21	3 23.8	20.4
319955 2007 BG_{47}	16.2	X	263.75232	319.60392	354.63841	6.81378	0.0419250	0.21884511	2.7271654	21	4 2.0	20.0
319956 2007 BM_{57}	16.1	X	321.44972	153.04999	97.52021	7.88919	0.0391155	0.22101726	2.7092677	21	3 31.0	19.8
319957 2007 BL_{64}	16.8	X	51.86540	9.46506	144.56396	7.55919	0.0067686	0.21907923	2.7252222	21	3 26.9	20.5
319958 2007 BD_{65}	16.8	X	221.50239	35.88757	152.23074	3.17714	0.1117847	0.18573973	3.0422823	21	11 28.4	21.3
319959 2007 BO_{70}	15.8	X	209.40777	63.82288	177.76054	7.06965	0.1592235	0.18218212	3.0817605	21	—	—
319960 2007 BB_{74}	16.2	X	156.78946	334.16445	332.15185	9.26089	0.0385547	0.19524586	2.9427147	21	—	—
319961 2007 BX_{74}	15.7	X	135.61330	183.16763	148.95425	12.37509	0.2378767	0.20063852	2.8897471	21	—	—
319962 2007 BP_{75}	16.9	X	206.54978	255.29099	116.59197	4.00602	0.0770633	0.22405180	2.6847494	21	4 9.6	20.8
319963 2007 BT_{76}	17.0	X	144.86431	88.20864	302.94976	3.85578	0.1038177	0.21773873	2.7363959	21	2 25.6	20.9
319964 2007 BH_{78}	16.6	X	331.77476	242.44756	328.43017	1.27662	0.1721648	0.21157580	2.7892796	21	1 31.0	20.1
319965 2007 BC_{99}	17.0	X	154.41574	70.92647	259.21746	0.99084	0.0747311	0.20500734	2.8485451	21	—	—
319966 2007 BT_{99}	16.1	X	315.61624	115.28026	99.35548	6.39238	0.0343442	0.21238436	2.7821958	21	2 4.2	19.9
319967 2007 BP_{100}	17.0	X	78.09544	174.12951	286.71345	4.00092	0.1100059	0.21671792	2.7449820	21	3 1.7	20.4
319968 2007 BC_{102}	15.5	X	269.42657	34.38438	80.19531	10.02502	0.0504081	0.18621818	3.0370690	21	11 6.6	19.7
319969 2007 CX_2	17.2	X	98.47808	262.19607	163.60876	4.35140	0.0912566	0.21193720	2.7861078	21	2 12.5	20.9
319970 2007 CK_3	16.3	X	144.11183	218.11241	163.57127	4.72397	0.0847327	0.21181468	2.7871821	21	2 12.4	20.4
319971 2007 CU_6	17.1	X	97.70874	82.32756	344.70098	3.45763	0.0880124	0.21484545	2.7609080	21	2 13.2	20.7
319972 2007 CC_9	16.2	X	267.48246	147.60508	130.05712	8.46380	0.1246048	0.21477622	2.7615013	21	2 13.0	20.4
319973 2007 CQ_{15}	16.9	X	251.31898	258.18361	123.71306	2.82279	0.0900520	0.23624336	2.5915702	21	6 9.4	20.5
319974 2007 CB_{17}	18.1	X	319.43365	70.31609	182.62229	3.91060	0.0853612	0.28620043	2.2804604	21	3 9.3	20.6
319975 2007 CB_{18}	16.6	X	28.17873	5.30940	99.75832	3.27093	0.0221436	0.20345421	2.8630236	21	—	—
319976 2007 CA_{28}	16.2	X	228.85472	338.42459	325.93707	7.22238	0.1478369	0.20967896	2.8060764	21	2 7.0	20.6
319977 2007 CP_{28}	16.8	X	2.63476	221.56328	303.25095	13.30760	0.0932298	0.21255790	2.7806813	21	1 27.2	20.0
319978 2007 CH_{29}	18.0	X	185.53291	260.12425	146.08181	1.90369	0.0703607	0.29442552	2.2377887	21	4 23.2	20.9
319979 2007 CV_{30}	16.7	X	129.80857	295.50084	139.08117	7.22134	0.0438950	0.21928330	2.7235312	21	3 30.9	20.5
319980 2007 CX_{30}	17.4	X	339.40988	98.76866	136.54867	8.37345	0.2728383	0.21414789	2.7669004	21	2 28.9	20.4
319981 2007 CW_{39}	16.6	X	134.96198	42.44416	313.33523	5.45411	0.0694941	0.20383555	2.8594517	21	1 1.8	20.6
319982 2007 CN_{50}	15.8	X	225.80804	61.60211	126.56244	12.99671	0.1745714	0.18638949	3.0352078	21	11 28.6	20.6
319983 2007 CL_{54}	15.2	X	105.74272	314.68452	335.90483	15.68301	0.1486625	0.18132715	3.0914401	21	12 5.7	20.4
319984 2007 CB_{59}	16.2	X	154.91282	346.46353	167.10847	13.61938	0.0478759	0.23698004	2.5861966	21	8 9.7	20.0
319985 2007 CU_{60}	17.8	X	151.73792	68.45884	132.73355	23.80867	0.0692093	0.37964628	1.8889333	21	11 8.1	20.7
319986 2007 CW_{62}	16.2	X	326.33613	45.13547	134.87416	16.78254	0.1769635	0.20369957	2.8607241	21	—	—
319987 2007 CY_{79}	16.1	X	250.32503	55.88957	125.69552	2.84991	0.0153173	0.18789912	3.0189289	21	—	—
319988 2007 DK	19.3	X	182.80335	355.08282	290.84046	5.17912	0.5503680	0.59768753	1.3957895	21	—	—
319989 2007 DW_1	15.4	X	221.41536	179.27145	300.09890	14.91654	0.0579130	0.17417351	3.1755185	21	9 3.5	20.2
319990 2007 DO_2	15.9	X	156.17497	85.56565	139.26159	17.96219	0.1672922	0.17808408	3.1288590	21	11 11.8	21.4
319991 2007 DY_7	17.9	X	207.29713	24.76138	157.54877	22.54573	0.0755518	0.38610844	1.8677978	21	12 19.4	20.4
319992 2007 DY_9	16.2	X	213.74714	256.08677	354.17624	11.31990	0.0683366	0.19266208	2.9689660	21	—	—
319993 2007 DD_{17}	16.6	X	243.90377	194.52278	119.62527	6.58406	0.0129930	0.21514715	2.7583264	21	3 16.0	20.5
319994 2007 DO_{21}	16.5	X	182.01160	197.54325	127.54667	3.05171	0.0638282	0.20267543	2.8703530	21	1 16.5	20.5
319995 2007 DS_{21}	16.0	X	12.66299	63.67481	349.27355	8.16876	0.0796069	0.18952828	3.0016038	21	—	—
319996 2007 DP_{24}	16.4	X	72.97007	61.15423	329.77767	7.58992	0.1098201	0.19756505	2.9196400	21	—	—
319997 2007 DE_{27}	15.8	X	121.26937	4.06497	358.24556	8.98801	0.1005982	0.19883667	2.9071787	21	—	—
319998 2007 DH_{27}	16.3	X	197.43834	208.89787	113.34554	3.24057	0.0624575	0.20444048	2.8538083	21	1 29.6	20.4
319999 2007 DM_{27}	17.2	X	165.87907	88.74625	50.61745	2.77033	0.0509756	0.23324223	2.6137533	21	8 6.9	20.8
320000 2007 DQ_{27}	16.4	X	54.89857	109.00676	20.59924	4.56308	0.0216952	0.21019286	2.8015008	21	3 1.3	20.1