Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
156001 2001 RC_{30}	16.6	X	30.28567	201.34157	196.77438	2.23497	0.1969853	0.25749964	2.4469117	21	—	—
156002 2001 RG_{31}	16.7	X	80.12857	244.44687	190.90964	1.95430	0.1715658	0.26959025	2.3731941	21	1 26.1	18.7
156003 2001 RO_{35}	16.8	X	2.07144	106.44174	213.04261	3.82249	0.1743612	0.29654769	2.2270999	21	9 14.4	18.2
156004 2001 RL_{41}	16.7	X	22.62329	342.47535	196.58038	6.15274	0.0530008	0.27753514	2.3276842	21	3 6.6	19.4
156005 2001 RD_{45}	15.6	X	300.25456	316.04479	106.95591	6.04275	0.1259374	0.24447681	2.5330530	21	10 14.5	18.4
156006 2001 RJ_{45}	16.3	X	51.96641	99.87448	193.17630	6.77935	0.1573105	0.29813310	2.2191973	21	11 1.9	19.0
156007 2001 RN_{49}	16.5	X	14.59731	20.22097	223.12900	6.34838	0.1253175	0.28741125	2.2740510	21	5 31.0	18.3
156008 2001 RZ_{49}	16.9	X	36.04922	38.52601	230.41161	6.56375	0.0625255	0.29317021	2.2441721	21	8 12.4	19.5
156009 2001 RG_{55}	16.5	X	51.05192	149.39374	0.67331	3.97169	0.0793276	0.27792425	2.3255111	21	3 13.9	18.9
156010 2001 RQ_{75}	15.8	X	81.68906	307.98267	93.87669	2.98454	0.1831816	0.26186514	2.4196409	21	—	—
156011 2001 RE_{78}	15.9	X	99.97465	1.86741	7.49348	7.24006	0.1006209	0.26177710	2.4201834	21	—	—
156012 2001 RV_{78}	15.9	X	311.43244	345.13988	45.87098	6.35886	0.3017985	0.24188542	2.5511124	21	8 20.8	18.1
156013 2001 RW_{78}	15.4	X	135.54931	289.57791	49.62383	10.78702	0.2982860	0.26346691	2.4098240	21	—	—
156014 2001 RR_{80}	16.8	X	177.60172	179.63835	186.89999	2.44573	0.1614273	0.27426759	2.3461353	21	2 26.9	20.2
156015 2001 RX_{81}	16.2	X	227.01705	329.65288	38.88575	7.68763	0.3071417	0.27877263	2.3207906	21	4 12.9	20.4
156016 2001 RW_{86}	16.2	X	149.10426	189.22934	191.95883	5.38798	0.1562428	0.27137350	2.3627862	21	2 15.3	19.5
156017 2001 RY_{91}	16.6	X	33.87431	29.31565	22.30119	3.17872	0.1748193	0.25887006	2.4382684	21	—	—
156018 2001 RM_{94}	16.3	X	87.05260	137.73717	245.22388	2.85227	0.1971781	0.26242735	2.4161839	21	—	—
156019 2001 RT_{94}	16.2	X	337.99949	65.12137	239.26878	3.73517	0.1352283	0.28910501	2.2651605	21	6 22.2	18.1
156020 2001 RD_{101}	16.2	X	52.33362	13.82947	31.34831	3.77336	0.1648272	0.26211586	2.4180977	21	—	—
156021 2001 RN_{101}	16.8	X	61.07111	271.52266	124.08184	3.13298	0.2077950	0.26168943	2.4207239	21	—	—
156022 2001 RV_{101}	16.7	X	261.91920	342.04619	22.70025	4.83460	0.0878206	0.28718467	2.2752470	21	5 26.9	19.5
156023 2001 RD_{106}	16.6	X	66.01124	312.56072	159.88396	6.40887	0.0328572	0.27559179	2.3386139	21	2 7.8	19.2
156024 2001 RN_{114}	16.2	X	6.66633	143.92525	11.25034	6.69298	0.0782696	0.27224349	2.3577498	21	1 8.4	18.9
156025 2001 RD_{115}	16.6	X	28.89558	336.75274	137.52791	2.93055	0.1657270	0.26763504	2.3847383	21	—	—
156026 2001 RO_{122}	17.0	X	6.62080	57.59045	8.36115	5.68322	0.1742314	0.25725400	2.4484691	21	—	—
156027 2001 RJ_{126}	16.3	X	169.28440	14.66515	35.48968	5.46377	0.1275831	0.27877828	2.3207593	21	4 14.3	19.7
156028 2001 RT_{127}	16.6	X	125.63667	301.97034	62.33801	2.29420	0.1932540	0.26707651	2.3880619	21	1 4.2	19.6
156029 2001 RK_{128}	16.4	X	105.94734	267.10581	144.08688	5.04046	0.1382754	0.26954962	2.3734326	21	1 29.9	19.0
156030 2001 RK_{130}	16.6	X	164.69674	309.82004	65.60473	1.58655	0.2189648	0.27336652	2.3512880	21	3 3.5	20.3
156031 2001 RX_{139}	16.2	X	58.47900	160.04865	7.99045	10.65237	0.1131805	0.28046528	2.3114437	21	4 23.1	18.6
156032 2001 RP_{142}	16.3	X	172.16212	313.53046	83.90824	5.93036	0.3038017	0.27483940	2.3428801	21	4 12.1	20.5
156033 2001 RR_{147}	16.0	X	188.07271	343.71669	46.47379	7.40616	0.1401353	0.28041098	2.3117420	21	4 9.4	19.4
156034 2001 RZ_{151}	16.5	X	124.25630	340.34479	51.60446	8.44581	0.2007219	0.26916170	2.3757124	21	2 12.3	19.7
156035 2001 RU_{154}	16.7	X	335.84978	130.50094	24.58708	7.49204	0.0552753	0.26506351	2.4001373	21	—	—
156036 2001 SD	16.7	X	97.75082	18.17833	37.65050	3.25778	0.2144969	0.26822188	2.3812587	21	2 7.6	19.1
156037 2001 SQ	15.8	X	71.87640	6.34468	37.84307	4.88705	0.2412796	0.26235023	2.4166574	21	—	—
156038 2001 SK_{1}	16.7	X	119.39352	34.53849	328.94429	2.80234	0.1417676	0.26523780	2.3990858	21	—	—
156039 2001 SR_{4}	16.3	X	56.02933	17.49732	16.90550	2.57071	0.1723714	0.25965603	2.4333455	21	—	—
156040 2001 SQ_{6}	17.1	X	68.87473	273.67755	172.55163	3.57675	0.1396025	0.26931145	2.3748317	21	1 16.7	19.2
156041 2001 SM_{10}	16.0	X	120.90562	6.40951	36.75902	5.14147	0.2384157	0.26675987	2.3899513	21	2 27.3	19.2
156042 2001 SB_{12}	16.6	X	10.20861	146.20818	358.31784	7.47083	0.0480510	0.27153529	2.3618476	21	1 2.5	19.5
156043 2001 SC_{13}	16.7	X	199.35941	206.85520	161.49284	2.56754	0.1852524	0.27774201	2.3265283	21	3 22.7	20.4
156044 2001 SA_{15}	14.1	X	209.10055	156.60327	157.58809	1.29161	0.1509770	0.12361039	3.9911624	21	2 11.4	20.4
156045 2001 SE_{15}	16.5	X	91.50496	175.89959	167.48187	8.68467	0.1280747	0.26014695	2.4302832	21	—	—
156046 2001 ST_{30}	16.2	X	247.07725	318.22025	16.36753	6.85651	0.1427326	0.27992157	2.3144358	21	3 25.8	19.7
156047 2001 SG_{31}	16.9	X	24.97475	58.75560	31.69843	5.25036	0.1276818	0.26193367	2.4192189	21	—	—
156048 2001 SN_{32}	16.6	X	88.76277	325.81496	41.10960	2.74577	0.0649351	0.26110010	2.4243651	21	—	—
156049 2001 SR_{37}	16.5	X	287.31648	160.73596	146.93857	4.12658	0.1358686	0.28195647	2.3032867	21	4 5.7	19.6
156050 2001 SX_{40}	16.0	X	49.49187	4.19147	39.94120	5.14973	0.1749790	0.25884870	2.4384024	21	—	—
156051 2001 SL_{46}	16.1	X	301.71606	297.97821	29.74797	7.69303	0.1507013	0.28694366	2.2765208	21	5 18.6	18.6
156052 2001 SO_{46}	16.5	X	120.97149	189.20353	159.93634	5.80143	0.2033412	0.26421419	2.4052780	21	—	—
156053 2001 SU_{47}	16.2	X	158.89844	343.52086	40.29290	7.54561	0.1238862	0.27286230	2.3541838	21	3 3.1	19.6
156054 2001 SO_{51}	16.1	X	226.48593	248.64436	157.68729	6.95428	0.1765831	0.23459498	2.6036958	21	6 6.8	20.3
156055 2001 SN_{52}	16.2	X	252.99826	345.42207	25.03313	6.53175	0.1926059	0.28406497	2.2918750	21	5 11.5	19.6
156056 2001 SN_{56}	15.4	X	331.92742	19.02885	69.79866	6.24136	0.1127282	0.25351135	2.4725084	21	—	—
156057 2001 SV_{56}	16.3	X	182.36902	197.82892	161.47388	7.95099	0.1116657	0.27218852	2.3580672	21	2 19.6	19.7
156058 2001 SA_{57}	16.0	X	92.82641	9.24378	28.38081	13.93544	0.1995701	0.26373235	2.4082068	21	1 2.2	18.7
156059 2001 SP_{57}	16.5	X	259.89008	250.18513	90.58206	1.75697	0.2153063	0.28221166	2.3018980	21	4 9.5	19.9
156060 2001 SY_{57}	16.4	X	346.63396	283.60677	186.98603	4.54082	0.1596929	0.25843964	2.4409748	21	—	—
156061 2001 SB_{59}	15.9	X	139.81963	314.06625	41.19027	7.08685	0.1450748	0.26592221	2.3949676	21	1 3.9	19.1
156062 2001 SK_{61}	16.5	X	192.99904	155.26876	183.23340	3.57591	0.1075624	0.27167475	2.3610392	21	2 3.7	20.0
156063 2001 SQ_{61}	16.6	X	299.37295	147.12919	184.88400	6.76138	0.1405638	0.28610390	2.2809733	21	5 26.2	19.2
156064 2001 SP_{66}	16.7	X	228.85987	325.98672	31.88548	7.93877	0.1334596	0.27812717	2.3243799	21	4 7.6	20.0
156065 2001 SE_{67}	16.3	X	276.61331	318.58941	37.95380	6.01512	0.1823356	0.28494645	2.2871459	21	5 20.9	19.3
156066 2001 SR_{73}	15.5	X	134.37656	19.01364	358.15539	6.76677	0.1036969	0.26895749	2.3769148	21	1 20.4	18.5
156067 2001 SJ_{79}	17.0	X	192.56328	167.37588	180.74082	5.30513	0.2432724	0.27645938	2.3337187	21	2 20.4	21.0
156068 2001 ST_{82}	17.0	X	234.60349	176.25258	195.96542	3.23356	0.1453664	0.28424488	2.2909078	21	4 30.5	20.3
156069 2001 SM_{86}	16.9	X	96.80370	317.68485	285.25840	1.94446	0.1230168	0.30027178	2.2086473	21	10 12.6	20.0
156070 2001 SG_{95}	16.6	X	36.60993	62.46434	193.02422	5.02216	0.1780613	0.29268713	2.2466408	21	8 12.4	18.7
156071 2001 SL_{105}	16.1	X	261.07904	35.04054	309.42820	3.33431	0.1506951	0.28209988	2.3025061	21	4 19.3	19.3
156072 2001 SF_{113}	15.7	X	242.41928	258.58467	218.22346	10.76172	0.2594987	0.23972579	2.5664110	21	9 8.3	19.8
156073 2001 SF_{118}	16.4	X	331.29428	293.14526	318.77879	7.26884	0.0868150	0.28185800	2.3038231	21	3 23.3	19.1
156074 2001 SE_{125}	16.0	X	67.38608	214.63213	201.16037	2.90823	0.1169752	0.26541203	2.3980357	21	—	—
156075 2001 SY_{137}	16.5	X	28.22785	245.93592	198.80474	0.99611	0.1691513	0.26144462	2.4222348	21	—	—
156076 2001 SJ_{140}	16.5	X	22.83622	242.33595	195.53596	1.81369	0.1975089	0.25922938	2.4360147	21	—	—
156077 2001 SU_{140}	16.8	X	100.71867	258.39441	198.45224	5.24164	0.0865802	0.27394951	2.3479510	21	3 17.0	19.4
156078 2001 SU_{150}	16.2	X	128.95906	168.14361	198.92619	10.12868	0.1144806	0.26661527	2.3908153	21	—	—
156079 2001 SH_{151}	16.6	X	172.45669	338.41351	342.90053	2.32173	0.2379402	0.26879433	2.3778766	21	1 4.8	20.4
156080 2001 SJ_{155}	16.5	X	31.13655	24.28256	14.29687	12.30552	0.2164265	0.25485335	2.4638210	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
156081 2001 SB_{163}	15.9	X	33.10163	171.93585	12.56969	6.70946	0.0266276	0.27716857	2.3297361	21	4 1.7	18.5
156082 2001 ST_{166}	16.8	X	125.52752	291.81042	178.75941	6.95728	0.0595003	0.28074213	2.3099238	21	5 8.0	19.7
156083 2001 SG_{167}	16.3	X	48.25500	40.59407	32.46163	7.07622	0.1065642	0.26387831	2.4073187	21	—	—
156084 2001 SD_{180}	16.7	X	78.96876	255.33183	153.87960	5.70559	0.1454593	0.26783853	2.3835303	21	—	—
156085 2001 SE_{182}	14.3	X	184.59237	331.13372	344.23110	4.00726	0.1757894	0.12279271	4.0088610	21	1 25.3	20.8
156086 2001 SX_{183}	17.1	X	101.97945	241.08460	179.71461	2.36493	0.1770210	0.27094481	2.3652778	21	2 12.1	19.7
156087 2001 SO_{185}	16.4	X	33.15679	57.59509	19.12742	2.71679	0.1710697	0.26341602	2.4101344	21	—	—
156088 2001 SJ_{193}	17.4	X	69.28400	32.57490	11.72717	2.60304	0.1858697	0.26334408	2.4105733	21	—	—
156089 2001 SK_{194}	16.8	X	38.85687	67.18319	356.88126	4.07926	0.1130061	0.26228563	2.4170542	21	—	—
156090 2001 SF_{195}	16.7	X	18.30593	289.77604	120.43093	2.06009	0.1743726	0.25696315	2.4503163	21	—	—
156091 2001 SF_{205}	16.6	X	43.89851	330.82886	166.70051	6.44047	0.0496708	0.27366365	2.3495858	21	2 10.4	19.2
156092 2001 SQ_{207}	16.9	X	27.52323	268.70282	7.37447	2.57222	0.1548645	0.29327969	2.2436136	21	8 27.0	18.7
156093 2001 SH_{209}	16.9	X	359.29155	35.47783	65.47465	2.79290	0.1293289	0.26078184	2.4263371	21	—	—
156094 2001 SB_{213}	17.4	X	288.89753	238.59832	53.77582	2.25245	0.1299783	0.28132153	2.3067511	21	3 18.2	20.2
156095 2001 SE_{213}	16.9	X	48.64102	28.72054	65.83585	2.33174	0.1305959	0.26654240	2.3912511	21	—	—
156096 2001 SZ_{213}	16.8	X	70.71932	309.38840	146.16629	4.40731	0.1054916	0.26997566	2.3709350	21	1 30.5	19.1
156097 2001 SF_{217}	16.1	X	321.17963	101.55214	30.33362	2.62116	0.1566399	0.25977535	2.4326003	21	—	—
156098 2001 SR_{228}	13.4	X	260.39806	188.63380	174.61279	7.65384	0.0976071	0.08440517	5.1470299	21	6 1.8	20.4
156099 2001 SN_{231}	16.4	X	298.73831	114.95050	172.51385	7.15374	0.0750927	0.27970607	2.3156244	21	4 1.9	19.2
156100 2001 SA_{233}	15.9	X	293.31005	181.81118	35.44341	6.82016	0.0660924	0.26793444	2.3829615	21	—	—
156101 2001 SL_{234}	16.8	X	291.16182	230.04110	54.92025	2.73981	0.2004518	0.27988752	2.3146235	21	3 2.4	20.0
156102 2001 SH_{237}	16.6	X	25.39755	324.51631	111.50474	2.39785	0.1608972	0.26018673	2.4300355	21	—	—
156103 2001 SL_{238}	16.2	X	58.93343	323.99919	93.48148	3.53775	0.1927363	0.26122089	2.4236177	21	—	—
156104 2001 SQ_{240}	16.1	X	224.21225	242.18791	101.69925	5.60934	0.1552449	0.27644931	2.3337753	21	3 17.0	19.7
156105 2001 SK_{242}	16.6	X	234.75736	242.26702	150.77138	4.70994	0.0721973	0.28458142	2.2891013	21	6 4.9	19.7
156106 2001 SA_{244}	16.7	X	25.16278	230.47970	68.19625	5.04497	0.2119429	0.29456473	2.2370836	21	10 10.2	18.7
156107 2001 SL_{247}	16.6	X	130.83065	349.31734	32.76093	8.31448	0.0807589	0.26778112	2.3838710	21	1 19.4	19.7
156108 2001 SS_{247}	16.6	X	208.85300	327.02726	38.87688	6.10951	0.1518373	0.27707623	2.3302537	21	3 29.6	20.1
156109 2001 SP_{248}	16.5	X	321.14479	293.92965	192.29607	8.07790	0.0138790	0.25819315	2.4425281	21	—	—
156110 2001 SY_{249}	15.8	X	64.79413	62.48234	41.03171	7.05400	0.0678132	0.26846655	2.3798117	21	2 1.5	18.5
156111 2001 SY_{253}	16.9	X	7.31612	142.81662	169.78065	4.91673	0.1971265	0.29316259	2.2442110	21	9 19.8	18.4
156112 2001 SO_{254}	15.5	X	336.81916	280.24777	150.08143	6.97908	0.1471188	0.25085389	2.4899397	21	12 31.2	18.1
156113 2001 SY_{266}	16.5	X	70.00049	209.87709	189.13716	5.28245	0.1634289	0.25945438	2.4346061	21	—	—
156114 2001 ST_{267}	16.0	X	327.79473	178.87746	174.17697	5.03645	0.2113741	0.24119838	2.5559546	21	8 7.9	18.2
156115 2001 SQ_{275}	17.5	X	43.22984	73.78568	181.61211	6.43050	0.1527542	0.29174347	2.2514827	21	8 20.2	19.8
156116 2001 SC_{281}	16.4	X	58.44088	173.62669	231.74831	0.79486	0.1671016	0.25987421	2.4319833	21	—	—
156117 2001 SU_{288}	16.2	X	23.86795	324.15460	301.52734	5.72730	0.1619249	0.29008499	2.2600560	21	8 1.2	18.0
156118 2001 SO_{295}	16.7	X	21.39992	175.67515	312.20624	1.39320	0.0649159	0.27019742	2.3696375	21	—	—
156119 2001 SU_{296}	16.5	X	261.77414	114.78852	340.69021	8.10641	0.2494854	0.24509927	2.5287625	21	9 7.0	19.9
156120 2001 SQ_{302}	16.7	X	351.58307	182.86460	278.23562	1.20509	0.1287958	0.26121266	2.4236686	21	—	—
156121 2001 SZ_{311}	16.3	X	37.16536	141.01944	350.87899	2.60389	0.1058167	0.27071664	2.3666067	21	1 24.2	18.6
156122 2001 SW_{327}	16.6	X	179.49285	321.03170	56.90679	5.78416	0.1612617	0.27529806	2.3402771	21	3 18.5	20.2
156123 2001 SV_{337}	13.2	X	126.97835	120.21431	356.61938	11.93945	0.0345527	0.08243811	5.2285833	21	5 21.7	20.3
156124 2001 SR_{344}	16.6	X	337.08112	347.64099	293.87700	6.76724	0.1681747	0.28666518	2.2779949	21	5 5.3	18.9
156125 2001 SH_{347}	12.9	X	240.44796	11.21863	354.44685	17.99698	0.0428618	0.08215625	5.2405352	21	5 13.1	20.2
156126 2001 SB_{350}	17.0	X	96.40313	232.78277	188.93710	6.19588	0.0393432	0.26897326	2.3768219	21	1 14.9	20.0
156127 2001 TR_{1}	15.8	X	290.59522	89.04291	334.64098	2.56500	0.1847673	0.24045155	2.5612443	21	9 15.1	18.5
156128 2001 TA_{4}	16.9	X	78.07352	85.20167	275.80534	1.46005	0.2008888	0.25849667	2.4406158	21	—	—
156129 2001 TY_{5}	16.1	X	343.05012	101.84646	50.79666	10.38245	0.1628493	0.26422518	2.4052114	21	—	—
156130 2001 TC_{10}	16.5	X	142.21592	7.21362	358.08736	1.84387	0.2204258	0.26793601	2.3829522	21	1 28.9	19.8
156131 2001 TB_{15}	16.0	X	183.83292	190.33489	134.93324	7.15203	0.1682904	0.26854742	2.3793339	21	1 14.0	19.7
156132 2001 TC_{15}	16.1	X	263.13226	208.69340	108.70266	7.38664	0.1328205	0.27823915	2.3237562	21	3 24.4	19.5
156133 2001 TV_{23}	16.7	X	23.85159	38.87156	13.14348	3.12662	0.1532680	0.25570365	2.4583560	21	—	—
156134 2001 TC_{27}	15.9	X	183.87736	259.15335	212.58057	27.45397	0.3641636	0.23155458	2.6264379	21	7 11.6	21.5
156135 2001 TD_{38}	15.1	X	262.37507	164.54124	267.93881	12.46750	0.1484176	0.23720822	2.5845378	21	8 16.6	18.8
156136 2001 TY_{38}	15.7	X	236.01333	332.16454	324.49440	6.15096	0.1036910	0.26832191	2.3806669	21	1 28.5	19.1
156137 2001 TM_{39}	16.5	X	133.71694	340.78140	33.71263	11.28245	0.2018537	0.26497308	2.4006833	21	2 2.4	20.0
156138 2001 TU_{41}	15.8	X	233.17569	32.37155	29.87566	12.48644	0.2483856	0.23181757	2.6244511	21	6 26.9	20.3
156139 2001 TS_{42}	15.4	X	245.83344	90.84026	322.00356	5.24689	0.2538617	0.23213644	2.6220472	21	6 26.3	19.6
156140 2001 TP_{44}	15.2	X	206.90992	84.96926	48.37820	11.44968	0.1004510	0.23452464	2.6042163	21	9 18.3	19.2
156141 2001 TP_{53}	16.8	X	66.40689	226.22728	192.55344	5.93987	0.1115456	0.26325437	2.4111209	21	—	—
156142 2001 TB_{61}	16.5	X	116.27514	19.98407	36.02727	1.69482	0.1735417	0.26902724	2.3765040	21	2 27.0	19.3
156143 2001 TN_{61}	16.3	X	253.70737	270.48342	74.57288	3.92374	0.2062523	0.28097710	2.3086359	21	4 10.9	19.8
156144 2001 TP_{61}	15.9	X	103.91054	135.97747	253.07462	1.76799	0.1924079	0.26443154	2.4039598	21	1 6.5	18.2
156145 2001 TH_{62}	16.8	X	208.38280	296.05271	57.46860	3.28523	0.2263087	0.27594075	2.3366419	21	3 13.6	20.7
156146 2001 TB_{66}	16.1	X	122.88540	181.22485	224.21930	5.61129	0.0922785	0.26839817	2.3802159	21	2 6.0	19.1
156147 2001 TC_{71}	15.8	X	31.84235	32.35663	39.47491	11.25572	0.0692718	0.25964541	2.4334118	21	—	—
156148 2001 TL_{71}	16.2	X	215.58962	280.46971	34.24672	7.96945	0.1280432	0.27126210	2.3634330	21	2 1.3	19.9
156149 2001 TP_{72}	16.3	X	172.04703	345.33551	52.00152	5.62424	0.0927537	0.27458980	2.3442996	21	3 31.1	19.5
156150 2001 TN_{73}	16.7	X	224.76997	120.28369	201.27611	4.80969	0.2583775	0.27487910	2.3426544	21	2 12.5	20.9
156151 2001 TL_{74}	16.5	X	158.25026	198.95641	207.77312	5.68535	0.1400728	0.27321642	2.3521491	21	3 28.9	19.8
156152 2001 TN_{75}	15.9	X	4.92997	307.52626	120.83740	3.02090	0.1706182	0.25458539	2.4655495	21	—	—
156153 2001 TM_{78}	16.1	X	22.77384	343.35092	49.65619	4.84474	0.1704798	0.25236411	2.4799960	21	—	—
156154 2001 TF_{95}	16.1	X	255.02607	235.44381	234.11599	3.27566	0.2301365	0.24336783	2.5407422	21	9 19.1	19.7
156155 2001 TH_{95}	16.1	X	267.23946	220.57112	232.43045	4.89916	0.2169001	0.24302372	2.5431400	21	9 13.5	19.3
156156 2001 TM_{95}	16.8	X	170.49832	19.72501	315.49958	2.03085	0.1632097	0.26826778	2.3809871	21	1 13.6	20.3
156157 2001 TY_{99}	17.1	X	121.91223	30.56389	349.18068	2.57770	0.2129974	0.26617277	2.3934644	21	1 23.4	20.1
156158 2001 TB_{101}	16.1	X	297.67896	35.18232	21.74489	5.14161	0.2604893	0.24174845	2.5520759	21	9 7.5	18.6
156159 2001 TK_{104}	15.7	X	234.55441	78.64383	65.55193	5.39644	0.0897399	0.24500062	2.5294412	21	11 1.4	19.2
156160 2001 TY_{104}	16.5	X	5.45385	280.18958	206.80702	6.01905	0.0668613	0.26398825	2.4066503	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
156161 2001 TZ_{111}	16.4	X	39.70801	70.44234	227.83401	8.17485	0.1809104	0.29516633	2.2340429	21	10 24.4	18.7
156162 2001 TB_{112}	16.3	X	74.85919	24.07263	350.78851	4.44838	0.2430936	0.25862491	2.4398089	21	—	—
156163 2001 TF_{112}	16.0	X	280.01286	63.89876	256.03950	6.03595	0.1811002	0.28096021	2.3087284	21	4 3.2	19.4
156164 2001 TC_{116}	15.0	X	303.19574	41.39708	34.14025	13.43836	0.1900637	0.24458343	2.5323167	21	10 27.1	17.2
156165 2001 TG_{132}	15.0	X	19.56429	346.37793	71.82490	7.94447	0.2038303	0.25628711	2.4546234	21	—	—
156166 2001 TG_{134}	16.2	X	107.22114	263.91039	119.25727	7.08835	0.1335842	0.26390902	2.4071319	21	—	—
156167 2001 TA_{135}	16.0	X	331.76606	241.84737	251.57958	9.77180	0.1216694	0.26116332	2.4239738	21	—	—
156168 2001 TO_{144}	16.3	X	306.13679	149.47716	133.32562	7.16471	0.1194251	0.28098897	2.3085708	21	3 31.5	19.1
156169 2001 TR_{149}	16.2	X	306.87498	45.58339	58.41539	6.90126	0.0785695	0.25224696	2.4807639	21	12 24.5	18.9
156170 2001 TH_{150}	16.6	X	298.10740	305.34764	47.98748	9.24789	0.0891968	0.28743367	2.2739328	21	7 4.0	19.3
156171 2001 TX_{150}	16.2	X	321.09473	32.90617	62.05774	7.18974	0.0933923	0.25263875	2.4781984	21	—	—
156172 2001 TG_{159}	17.5	X	11.59563	244.89801	186.67369	0.97439	0.1639502	0.25693798	2.4504763	21	—	—
156173 2001 TR_{162}	17.0	X	229.48937	234.70045	231.94485	3.75151	0.1959865	0.24053233	2.5606708	21	8 22.2	21.1
156174 2001 TO_{164}	15.8	X	204.69105	98.58909	32.10212	3.92003	0.2365807	0.23790512	2.5794880	21	8 30.1	20.1
156175 2001 TH_{174}	17.1	X	315.67919	241.37787	50.41777	3.47842	0.1563681	0.28330722	2.2959598	21	4 18.7	19.4
156176 2001 TX_{180}	16.9	X	284.28275	11.79188	275.83438	2.39212	0.1739834	0.27825180	2.3236858	21	2 27.2	20.1
156177 2001 TF_{181}	16.5	X	35.31417	87.64175	0.88236	4.42516	0.0451192	0.26253439	2.4155271	21	—	—
156178 2001 TM_{181}	16.0	X	230.49322	101.35865	14.30500	13.95602	0.2108482	0.24028103	2.5624558	21	9 9.0	20.0
156179 2001 TR_{187}	16.4	X	95.33837	6.42839	3.09873	6.99411	0.1948199	0.26045016	2.4283967	21	—	—
156180 2001 TP_{195}	16.6	X	339.65242	179.82574	118.57863	10.39173	0.1496485	0.28662928	2.2781851	21	6 15.3	18.5
156181 2001 TK_{204}	16.3	X	48.95248	22.63981	91.99023	7.31343	0.0575033	0.27008320	2.3703055	21	1 19.9	18.8
156182 2001 TE_{219}	16.3	X	347.74402	345.87382	104.37428	7.33826	0.1109104	0.25571773	2.4582657	21	—	—
156183 2001 TN_{219}	16.6	X	310.37140	99.29358	26.17760	4.58553	0.0729037	0.25621460	2.4550865	21	—	—
156184 2001 TX_{219}	16.8	X	339.75260	340.08557	285.44555	4.94125	0.1425796	0.28329460	2.2960281	21	4 19.5	19.0
156185 2001 TH_{220}	12.6	X	11.25397	248.28884	10.73382	35.27682	0.0537491	0.08466735	5.1363987	21	6 17.9	19.7
156186 2001 TE_{222}	16.4	X	351.51892	33.93766	257.71527	4.59739	0.1956548	0.28748136	2.2736813	21	6 26.9	17.6
156187 2001 TJ_{233}	16.3	X	348.06241	320.31392	101.35195	7.39288	0.1418833	0.25236107	2.4800160	21	—	—
156188 2001 TV_{233}	12.9	X	317.75821	287.50060	19.12469	4.61069	0.0930117	0.08235006	5.2323098	21	6 3.8	19.6
156189 2001 TQ_{236}	17.0	X	64.28321	309.61753	185.97671	5.16894	0.0634597	0.27470941	2.3436191	21	3 12.9	19.5
156190 2001 TY_{236}	16.2	X	22.79634	219.74533	63.76852	7.43467	0.1945936	0.29403436	2.2397729	21	9 9.9	18.1
156191 2001 TJ_{256}	16.9	X	339.47215	169.50891	82.08934	5.91120	0.1252807	0.28024138	2.3126747	21	4 6.9	19.2
156192 2001 UJ_{5}	15.5	X	146.05831	115.87794	46.07008	30.68833	0.2700812	0.23205926	2.6226285	21	9 9.8	20.8
156193 2001 UC_{6}	17.1	X	25.90943	107.32460	208.03025	5.77760	0.2242746	0.29571086	2.2312995	21	11 6.2	19.2
156194 2001 UM_{6}	16.9	X	280.51564	139.80535	195.03091	2.07267	0.2226560	0.28281399	2.2986285	21	4 21.4	20.1
156195 2001 UW_{6}	16.4	X	259.11654	241.62236	216.73494	3.59302	0.2524358	0.24054584	2.5605749	21	9 5.8	19.9
156196 2001 UZ_{11}	16.1	X	200.38733	267.51890	196.21532	2.72414	0.1683643	0.23218195	2.6217045	21	7 24.2	20.4
156197 2001 UV_{23}	15.7	X	181.93378	240.01843	222.50182	29.64627	0.2402544	0.23208121	2.6224631	21	6 29.6	20.8
156198 2001 UP_{29}	17.1	X	18.97816	203.67805	106.05786	6.48338	0.2095902	0.29477957	2.2359966	21	10 16.9	19.1
156199 2001 UA_{35}	15.9	X	38.14361	339.41986	93.64328	7.18046	0.1012718	0.25945829	2.4345816	21	—	—
156200 2001 UB_{39}	16.6	X	7.03233	236.85091	202.02314	2.12619	0.1514645	0.25656199	2.4528699	21	—	—
156201 2001 UJ_{39}	16.3	X	304.71246	175.80845	40.10520	7.10783	0.0550312	0.26863433	2.3788207	21	1 7.8	19.4
156202 2001 UJ_{41}	17.5	X	2.39955	285.19300	147.53191	2.91287	0.1728264	0.25453381	2.4658826	21	—	—
156203 2001 UQ_{43}	16.3	X	82.04780	331.38899	35.46033	6.93539	0.1115603	0.25830980	2.4417927	21	—	—
156204 2001 UA_{46}	16.0	X	243.85009	267.27745	190.21310	4.21351	0.2115814	0.23906465	2.5711405	21	8 24.1	19.7
156205 2001 UK_{46}	17.0	X	283.39486	265.10954	144.69600	2.89228	0.1743034	0.24037377	2.5617967	21	8 16.8	19.9
156206 2001 UH_{49}	16.0	X	29.82279	345.17017	89.36079	7.66121	0.0784309	0.25789695	2.4443980	21	—	—
156207 2001 UD_{50}	16.7	X	252.94514	221.06769	131.42505	5.32580	0.2642103	0.28107457	2.3081021	21	4 15.9	20.6
156208 2001 UJ_{52}	16.4	X	2.68343	30.24220	71.40377	3.34183	0.1484358	0.25764963	2.4459620	21	—	—
156209 2001 UG_{54}	17.0	X	296.85058	111.66658	217.57656	0.67618	0.1781418	0.28447293	2.2896833	21	5 10.7	19.6
156210 2001 UH_{57}	12.9	X	276.71303	322.57476	19.34024	16.09842	0.0781386	0.08362573	5.1789625	21	5 23.9	19.9
156211 2001 UR_{59}	16.4	X	204.53070	187.58292	220.14634	6.49679	0.1100298	0.28056296	2.3109071	21	5 17.9	19.6
156212 2001 UB_{62}	17.0	X	39.48885	48.87529	31.65459	1.20769	0.1388241	0.26099107	2.4250402	21	—	—
156213 2001 UH_{63}	16.9	X	358.21773	263.33415	62.74922	3.54600	0.1836781	0.29237062	2.2482619	21	9 21.3	18.4
156214 2001 UO_{66}	15.0	X	172.14146	233.32868	243.52621	10.39430	0.2139131	0.22905893	2.6454805	21	7 13.7	19.7
156215 2001 UK_{72}	16.7	X	224.16922	266.97080	137.01730	12.50797	0.2587762	0.23221029	2.6214912	21	5 29.9	21.4
156216 2001 UX_{73}	16.2	X	238.11098	349.92063	81.31319	5.18927	0.2340534	0.23613012	2.5923986	21	7 14.5	20.4
156217 2001 US_{74}	16.8	X	275.22281	206.33429	129.31892	4.54251	0.2170637	0.28267135	2.2994017	21	4 19.4	20.1
156218 2001 UK_{75}	16.7	X	219.74204	227.64105	108.92071	3.19072	0.1873418	0.27429923	2.3459549	21	3 2.0	20.4
156219 2001 UP_{75}	16.3	X	269.97805	343.09356	81.07220	2.92585	0.2044990	0.23911459	2.5707825	21	8 13.9	19.8
156220 2001 UJ_{76}	16.3	X	2.66716	121.48242	58.30438	7.40413	0.0523506	0.27036454	2.3686609	21	2 11.1	19.1
156221 2001 UE_{81}	16.2	X	150.02736	259.31486	56.01702	3.54445	0.0751726	0.26048652	2.4281707	21	—	—
156222 2001 UB_{91}	13.5	X	306.73663	167.00956	170.95761	5.82511	0.0727020	0.08594105	5.0855229	21	6 28.6	20.1
156223 2001 UK_{94}	17.0	X	285.01028	19.39877	290.53137	2.99127	0.1574961	0.28037259	2.3119531	21	3 30.7	20.1
156224 2001 UK_{96}	16.4	X	45.74112	322.52274	156.96387	2.13887	0.0760413	0.26775671	2.3840159	21	1 21.3	18.9
156225 2001 UB_{99}	16.1	X	90.60210	344.92751	65.31551	4.86246	0.1792093	0.26321437	2.4113652	21	1 13.1	18.5
156226 2001 UY_{99}	16.5	X	225.75113	186.06115	147.85821	2.83399	0.2218583	0.27497638	2.3421019	21	3 2.3	20.4
156227 2001 UU_{107}	16.4	X	343.38881	139.42381	56.21759	6.69465	0.0673518	0.27051342	2.3677917	21	2 1.4	19.2
156228 2001 UJ_{118}	16.3	X	136.09375	348.05965	47.27580	3.68647	0.1023371	0.26808023	2.3820975	21	2 15.4	19.3
156229 2001 UY_{118}	16.4	X	262.31810	275.92977	63.26574	8.36743	0.0945553	0.27884127	2.3204098	21	4 24.6	19.5
156230 2001 UE_{119}	16.2	X	238.08443	271.89022	48.96016	6.40745	0.1271117	0.27340289	2.3510795	21	3 3.1	19.8
156231 2001 UC_{123}	16.3	X	160.75363	318.67186	52.08136	8.79293	0.1467018	0.26826630	2.3809959	21	2 19.8	19.9
156232 2001 UC_{128}	14.6	X	229.95877	320.53106	107.19847	13.77617	0.2651512	0.23078939	2.6322401	21	6 30.1	19.1
156233 2001 UY_{131}	16.5	X	168.83237	145.86625	183.93702	2.83474	0.1303459	0.26540289	2.3980908	21	1 1.9	19.9
156234 2001 UJ_{140}	16.8	X	223.24408	156.11349	149.28126	3.73698	0.0308210	0.26952376	2.3735844	21	1 24.9	20.0
156235 2001 UJ_{145}	16.3	X	228.29674	78.04459	53.63548	12.89060	0.1741279	0.24157927	2.5532672	21	10 2.7	20.3
156236 2001 UM_{145}	16.6	X	133.86921	316.69152	82.89999	4.13567	0.0805991	0.26862851	2.3788550	21	2 14.9	19.7
156237 2001 UH_{146}	13.3	X	306.51185	87.73203	235.36065	3.20550	0.1896089	0.08327625	5.1934420	21	5 27.4	19.7
156238 2001 UL_{151}	16.7	X	200.11909	188.88698	162.39811	2.37491	0.2235614	0.27275000	2.3548299	21	3 3.0	20.6
156239 2001 UC_{153}	16.6	X	132.50558	150.62752	220.88569	1.65004	0.2165169	0.26503033	2.4003376	21	1 25.1	19.9
156240 2001 UO_{155}	16.7	X	276.85611	13.96618	79.26084	5.61507	0.1498905	0.24365992	2.5387113	21	10 14.3	19.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
156241 2001 UX_{156}	16.5	X	251.83825	111.77465	204.72075	5.51618	0.1521483	0.27501538	2.3418805	21	3 4.7	20.1
156242 2001 UD_{162}	16.1	X	176.30427	271.23546	59.75565	7.99613	0.2303114	0.26622049	2.3931783	21	1 20.9	20.0
156243 2001 UL_{163}	16.4	X	271.65896	198.97856	68.74134	7.31462	0.0711814	0.26859724	2.3790397	21	2 3.4	19.7
156244 2001 UX_{169}	16.8	X	35.30733	241.19185	212.14349	3.89632	0.1207950	0.26205928	2.4184458	21	—	—
156245 2001 UF_{174}	16.6	X	336.15713	266.17588	217.63357	4.96953	0.0887143	0.25689466	2.4507518	21	—	—
156246 2001 UQ_{174}	16.9	X	245.02922	217.52697	200.43761	4.69844	0.1968854	0.23547539	2.5972018	21	7 6.7	20.9
156247 2001 UM_{179}	16.2	X	18.06003	201.39217	231.24023	5.77792	0.0369239	0.25739822	2.4475544	21	—	—
156248 2001 UR_{186}	17.0	X	8.55227	136.04972	5.22894	1.46100	0.0990862	0.26588012	2.3952204	21	—	—
156249 2001 UT_{189}	16.7	X	28.83944	264.74499	209.18924	6.69648	0.1000725	0.26676362	2.3899289	21	—	—
156250 2001 UM_{198}	13.6	X	212.47254	122.51972	285.89137	1.76639	0.1406092	0.08240234	5.2300964	21	6 1.7	21.1
156251 2001 UN_{201}	16.4	X	317.29174	231.86809	269.39067	1.46942	0.1459462	0.25788232	2.4444904	21	—	—
156252 2001 UV_{201}	13.4	X	305.26167	321.77184	356.66675	5.42642	0.0715794	0.08364861	5.1780181	21	6 3.8	20.2
156253 2001 UC_{217}	17.1	X	348.97692	237.72307	55.18140	6.76274	0.1534610	0.28723481	2.2749822	21	6 25.7	18.8
156254 2001 UM_{217}	16.5	X	357.58497	308.87770	185.14512	4.27822	0.1027049	0.26164054	2.4210255	21	—	—
156255 2001 UQ_{220}	16.8	X	312.77032	285.22933	142.40546	3.05037	0.0905957	0.24644987	2.5195152	21	11 12.9	19.5
156256 2001 VC_{8}	16.2	X	339.73420	28.76603	42.15890	6.92522	0.0338554	0.25136142	2.4865869	21	12 28.6	19.3
156257 2001 VC_{10}	15.1	X	337.42870	147.00379	280.11083	10.25009	0.1105208	0.25049415	2.4923230	21	12 25.1	17.6
156258 2001 VE_{15}	15.9	X	22.40939	68.78842	37.92693	10.75366	0.0489097	0.25974692	2.4327778	21	—	—
156259 2001 VY_{18}	16.9	X	93.02223	116.90321	238.65582	0.35901	0.2040909	0.25875200	2.4390100	21	—	—
156260 2001 VJ_{19}	16.5	X	147.84233	355.35646	18.55461	2.37702	0.2277400	0.26833014	2.3806182	21	2 15.5	19.9
156261 2001 VD_{21}	16.7	X	270.04882	10.33771	48.40051	2.80713	0.1717620	0.23859175	2.5745368	21	8 11.8	20.1
156262 2001 VP_{22}	16.6	X	92.63583	349.04533	4.24042	1.02773	0.2028783	0.25780655	2.4449693	21	—	—
156263 2001 VC_{24}	16.7	X	269.97500	305.30079	37.96692	3.15781	0.1733060	0.28091556	2.3089730	21	4 27.0	19.7
156264 2001 VT_{27}	15.9	X	292.18457	199.58800	223.10082	2.38184	0.1032357	0.24138160	2.5546610	21	9 28.7	18.9
156265 2001 VH_{35}	16.8	X	281.09078	31.01402	24.29970	2.52481	0.2116081	0.23855262	2.5748183	21	8 15.9	19.8
156266 2001 VL_{35}	16.1	X	311.02692	30.82162	41.32217	4.77383	0.2227801	0.24449614	2.5329194	21	11 4.4	17.9
156267 2001 VN_{37}	16.5	X	221.86029	256.80999	96.88864	2.99271	0.2438272	0.27510818	2.3413538	21	3 24.2	20.5
156268 2001 VQ_{40}	16.2	X	176.71981	241.57336	253.57166	4.07632	0.1885257	0.23192725	2.6236236	21	8 10.2	20.6
156269 2001 VP_{47}	15.3	X	198.34186	254.51657	246.35127	20.94360	0.1249656	0.23604632	2.5930122	21	8 31.6	19.9
156270 2001 VF_{57}	16.6	X	232.38363	337.36774	333.21169	3.77656	0.1345304	0.27198368	2.3592510	21	2 9.6	20.1
156271 2001 VV_{59}	16.1	X	306.31013	341.96333	297.50393	4.67938	0.1273999	0.27719437	2.3295915	21	3 20.4	19.0
156272 2001 VO_{66}	16.0	X	208.55283	69.76436	41.19029	8.01487	0.1669039	0.23460561	2.6036171	21	8 14.6	20.2
156273 2001 VU_{70}	15.9	X	288.36793	193.97473	210.93594	4.95475	0.2626396	0.23871569	2.5736456	21	7 31.4	19.1
156274 2001 VY_{71}	15.3	X	173.57032	262.05496	223.67985	13.22168	0.2030080	0.22971151	2.6404678	21	7 24.1	20.1
156275 2001 VC_{90}	16.5	X	303.42704	285.15839	119.28160	7.42051	0.2022451	0.24203421	2.5500667	21	9 11.1	19.1
156276 2001 VH_{90}	16.4	X	351.14430	253.41293	106.46994	9.29319	0.2437365	0.29542793	2.2327239	21	11 13.3	17.9
156277 2001 VN_{99}	15.3	X	232.47740	283.14040	168.30438	13.09797	0.2670182	0.23580880	2.5947531	21	7 29.9	19.8
156278 2001 VN_{105}	16.5	X	284.38854	37.31959	10.50218	3.83304	0.1971394	0.23913658	2.5706249	21	8 13.1	19.7
156279 2001 VO_{106}	16.4	X	303.51766	267.14576	31.51439	6.75220	0.1145483	0.27973117	2.3154859	21	4 17.4	18.9
156280 2001 VX_{119}	16.5	X	156.66910	331.80589	62.00831	3.09021	0.2110874	0.26960968	2.3730801	21	3 19.7	20.1
156281 2001 VC_{121}	16.1	X	123.48842	46.98573	70.86345	14.09514	0.1926321	0.22150118	2.7053202	21	6 2.3	20.3
156282 2001 VK_{126}	17.0	X	235.33782	153.47985	175.75601	1.98863	0.1457281	0.27399065	2.3477160	21	3 6.7	20.7
156283 2001 WN_{9}	15.8	X	241.40537	292.88716	158.47242	5.00712	0.1808051	0.23694432	2.5864565	21	8 17.7	19.5
156284 2001 WE_{11}	16.3	X	218.28273	222.26377	90.26881	6.48754	0.1165995	0.26903529	2.3764566	21	1 30.7	19.8
156285 2001 WG_{12}	17.2	X	301.53373	174.33080	154.22513	3.31092	0.1782990	0.28336944	2.2956238	21	5 17.8	19.7
156286 2001 WV_{13}	16.1	X	306.89535	267.02059	139.17106	4.92733	0.2345520	0.24102582	2.5571743	21	9 13.8	18.3
156287 2001 WU_{14}	16.2	X	6.34935	25.22398	58.27405	6.81400	0.1113041	0.25415126	2.4683564	21	—	—
156288 2001 WQ_{16}	16.8	X	51.77153	24.20226	13.58390	2.69479	0.1947206	0.25783784	2.4447716	21	—	—
156289 2001 WF_{17}	16.2	X	300.29519	188.65959	252.48302	1.46047	0.1247868	0.24698054	2.5159049	21	11 6.5	18.8
156290 2001 WK_{36}	16.4	X	256.85331	293.23438	140.49099	3.87593	0.2082929	0.23709138	2.5853869	21	8 8.7	20.0
156291 2001 WM_{38}	15.7	X	248.02341	296.77435	132.31966	3.91033	0.1380976	0.23531644	2.5983712	21	8 1.4	19.4
156292 2001 WA_{57}	16.9	X	223.88759	179.39057	250.66278	1.08044	0.1976074	0.23369434	2.6103811	21	7 2.2	21.1
156293 2001 WB_{59}	12.7	X	25.96550	3.03613	241.60943	3.64303	0.0998148	0.08178600	5.2563395	21	6 27.0	19.1
156294 2001 WU_{66}	13.3	X	251.94275	189.63112	184.51012	4.10208	0.0834317	0.08203603	5.2456536	21	6 6.3	20.3
156295 2001 XG_{5}	15.6	X	173.09089	52.43631	89.76654	5.48001	0.2107756	0.23251172	2.6192251	21	8 19.1	20.0
156296 2001 XU_{7}	16.1	X	201.17663	59.57643	350.59738	12.43236	0.1731082	0.22772407	2.6558085	21	5 14.3	20.7
156297 2001 XR_{8}	15.7	X	187.31427	199.20859	279.68142	12.99871	0.1766295	0.23183769	2.6242992	21	7 29.1	20.1
156298 2001 XT_{8}	15.8	X	183.83360	103.67179	49.74433	15.04269	0.0281768	0.23748577	2.5825238	21	9 24.9	19.6
156299 2001 XA_{11}	16.0	X	294.79513	179.40446	247.71796	6.38362	0.1404832	0.24338270	2.5406387	21	10 2.2	19.0
156300 2001 XD_{16}	16.3	X	231.32461	182.29164	224.37970	2.26668	0.1605423	0.23054320	2.6341136	21	6 12.3	20.4
156301 2001 XZ_{17}	15.5	X	295.52024	358.91550	18.66070	6.03000	0.1054887	0.23456662	2.6039056	21	8 3.1	18.8
156302 2001 XA_{18}	15.2	X	246.28859	57.96618	25.01889	5.07206	0.1956654	0.23526423	2.5987557	21	8 12.8	19.1
156303 2001 XU_{22}	16.1	X	259.78304	30.27140	36.45568	5.55614	0.2220772	0.23595542	2.5936781	21	8 3.1	19.9
156304 2001 XS_{28}	15.7	X	277.75324	242.55790	154.30648	5.15285	0.3141113	0.23684165	2.5872039	21	6 30.0	19.5
156305 2001 XQ_{32}	16.6	X	198.75287	305.67527	207.52604	4.80695	0.1677059	0.24014146	2.5634486	21	9 23.4	20.5
156306 2001 XS_{36}	15.6	X	182.06412	185.02106	307.76264	8.58816	0.1280593	0.23330790	2.6132628	21	8 13.6	19.8
156307 2001 XC_{42}	15.9	X	152.37781	55.92329	50.93203	12.28228	0.1528731	0.22453880	2.6808661	21	6 12.3	20.2
156308 2001 XN_{44}	16.0	X	150.20745	317.79366	32.96998	8.44294	0.2081654	0.26114352	2.4240964	21	1 20.4	19.7
156309 2001 XZ_{44}	15.5	X	353.26449	317.83097	39.52555	10.29315	0.1484432	0.23992662	2.5649787	21	10 16.9	17.9
156310 2001 XL_{46}	15.3	X	210.49032	103.65822	35.12198	9.28349	0.1141092	0.23491630	2.6013210	21	9 25.4	19.1
156311 2001 XD_{51}	15.8	X	87.92220	311.93425	46.70347	6.71101	0.1437113	0.25667860	2.4521269	21	—	—
156312 2001 XF_{55}	16.4	X	179.01829	259.82650	98.59704	2.48325	0.1998485	0.26886750	2.3774452	21	2 22.6	20.2
156313 2001 XE_{58}	16.0	X	77.18544	301.53970	84.58344	3.72155	0.1845984	0.25721969	2.4486868	21	—	—
156314 2001 XT_{62}	15.8	X	230.83389	247.78067	200.28427	2.26586	0.1969979	0.23313615	2.6145461	21	7 31.3	19.9
156315 2001 XY_{67}	15.0	X	123.30027	85.11170	101.00605	14.44950	0.1310776	0.22663055	2.6643447	21	8 27.8	19.2
156316 2001 XP_{68}	15.4	X	224.09596	195.37108	261.52144	11.65024	0.2940098	0.23696211	2.5863271	21	7 26.5	20.0
156317 2001 XM_{69}	16.6	X	255.38560	341.57637	86.25781	1.87024	0.1760503	0.23653793	2.5894181	21	8 4.1	20.1
156318 2001 XF_{76}	15.9	X	184.41662	256.79016	289.66494	3.44201	0.1894365	0.24078758	2.5588608	21	10 19.7	20.2
156319 2001 XR_{76}	17.1	X	260.79470	144.65670	193.77075	2.61669	0.1879575	0.27910721	2.3189355	21	4 9.3	20.4
156320 2001 XA_{78}	16.3	X	33.27667	223.29022	222.68353	5.34279	0.0743975	0.25836595	2.4414389	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
156321 2001 XH_{78}	16.1	X	151.47429	65.34203	110.86531	4.33516	0.1574182	0.23485983	2.6017380	21	9 11.2	20.3
156322 2001 XN_{82}	16.5	X	255.48665	259.03838	187.46211	2.95247	0.1669120	0.23792147	2.5793699	21	8 29.3	20.0
156323 2001 XL_{84}	15.4	X	305.59367	279.80780	102.72673	15.03476	0.1138901	0.23618431	2.5920021	21	8 28.1	18.6
156324 2001 XQ_{85}	16.0	X	195.49710	301.17775	190.65117	3.28967	0.1309378	0.23203587	2.6228048	21	8 25.9	20.0
156325 2001 XC_{98}	15.4	X	217.12329	346.17419	78.81551	14.01229	0.1504578	0.22945002	2.6424735	21	6 21.9	19.6
156326 2001 XG_{101}	16.1	X	206.86462	4.05057	54.26384	3.71956	0.2782105	0.22806797	2.6531381	21	5 30.8	20.8
156327 2001 XW_{101}	15.6	X	286.17764	357.88606	84.53166	13.63062	0.1604441	0.24007882	2.5638945	21	10 16.9	18.8
156328 2001 XP_{108}	15.6	X	316.27907	237.42498	142.90552	2.54929	0.2309481	0.23788731	2.5796168	21	8 23.6	18.0
156329 2001 XO_{110}	16.5	X	242.23869	317.96931	184.34037	3.32654	0.1567736	0.24363763	2.5388661	21	10 29.2	19.9
156330 2001 XD_{112}	16.1	X	159.29789	50.48433	93.67000	12.75615	0.1323807	0.23106422	2.6301524	21	8 8.9	20.3
156331 2001 XF_{115}	16.3	X	66.04269	331.44640	52.18790	5.65842	0.2018898	0.25392610	2.4698154	21	—	—
156332 2001 XY_{117}	15.7	X	165.67002	13.18354	95.30267	17.45076	0.1053543	0.22454053	2.6808523	21	6 27.1	19.6
156333 2001 XN_{125}	16.5	X	178.44829	269.39589	237.10605	6.27843	0.1388356	0.23520445	2.5991959	21	8 25.5	20.7
156334 2001 XH_{132}	17.0	X	203.24491	237.39419	251.34211	2.33427	0.1529405	0.23545106	2.5973808	21	8 28.4	21.1
156335 2001 XM_{132}	16.4	X	278.03678	246.37378	85.80677	7.99336	0.2079569	0.28008515	2.3135346	21	4 20.7	19.7
156336 2001 XC_{133}	16.2	X	178.55931	75.86438	98.51385	5.59429	0.2134863	0.23748165	2.5825536	21	10 3.4	20.6
156337 2001 XR_{133}	16.4	X	232.56850	140.19534	205.34968	2.50394	0.2474374	0.27583749	2.3372250	21	3 20.3	20.3
156338 2001 XW_{138}	16.4	X	213.16217	55.37586	91.51904	6.33371	0.1151385	0.23941820	2.5686087	21	10 8.9	20.2
156339 2001 XL_{148}	16.0	X	10.93174	296.14586	141.50041	2.68857	0.1597054	0.25322238	2.4743891	21	—	—
156340 2001 XU_{150}	17.0	X	91.01840	160.83101	223.94097	1.85219	0.2266487	0.25925451	2.4358572	21	—	—
156341 2001 XA_{153}	16.2	X	170.07260	265.87605	222.50678	2.91013	0.1720500	0.22961969	2.6411717	21	7 27.3	20.5
156342 2001 XT_{154}	16.5	X	79.57894	119.40413	286.42496	0.64851	0.1794722	0.25919007	2.4362610	21	—	—
156343 2001 XE_{163}	16.5	X	277.43172	312.67531	99.55364	5.46997	0.0682129	0.23618672	2.5919845	21	8 30.7	19.8
156344 2001 XT_{165}	15.8	X	138.19806	282.75892	258.47932	11.54911	0.1110390	0.23210581	2.6222778	21	8 25.7	20.0
156345 2001 XX_{168}	15.9	X	291.17663	211.19358	257.13184	2.54741	0.1685677	0.24465395	2.5318301	21	11 23.3	18.2
156346 2001 XY_{169}	16.1	X	161.01870	196.00069	248.89590	2.98495	0.1231053	0.22357730	2.6885467	21	5 23.5	20.3
156347 2001 XS_{170}	16.7	X	185.74080	32.71804	97.30706	3.25919	0.1327476	0.23223197	2.6213281	21	8 15.6	20.7
156348 2001 XW_{171}	15.9	X	144.77605	140.08201	96.89470	14.38098	0.1080870	0.24162225	2.5529644	21	11 21.1	20.0
156349 2001 XA_{175}	15.9	X	47.58544	250.23152	102.10466	4.14414	0.2096944	0.24735948	2.5133348	21	—	—
156350 2001 XS_{179}	15.7	X	158.54051	282.03213	108.19053	7.18186	0.0756972	0.21491745	2.7602913	21	3 13.4	19.8
156351 2001 XW_{182}	15.5	X	203.34436	317.50180	108.59675	22.73442	0.0392314	0.22516292	2.6759098	21	6 17.3	19.4
156352 2001 XF_{184}	16.0	X	0.18305	202.15499	213.57842	2.85928	0.1524267	0.24699851	2.5157829	21	—	—
156353 2001 XC_{189}	16.3	X	219.11503	333.29380	120.31418	2.32735	0.1837826	0.23184476	2.6242459	21	7 28.9	20.4
156354 2001 XO_{205}	16.3	X	186.99025	327.42211	150.06315	4.46884	0.1861570	0.23165710	2.6256629	21	7 29.1	20.6
156355 2001 XB_{207}	15.7	X	260.06124	282.01737	140.67816	5.02021	0.1771836	0.23615233	2.5922361	21	8 1.8	19.4
156356 2001 XU_{207}	16.4	X	76.60466	239.69494	152.70088	4.09520	0.1688368	0.25782291	2.4448659	21	—	—
156357 2001 XZ_{208}	16.4	X	217.71687	265.84718	186.21441	4.11539	0.2208384	0.23266156	2.6181004	21	7 22.1	20.8
156358 2001 XF_{214}	16.2	X	273.42702	276.25562	151.26083	5.21739	0.2645291	0.23688097	2.5869176	21	8 12.1	19.7
156359 2001 XV_{214}	16.4	X	285.50316	38.41651	34.68121	5.99610	0.1999963	0.23956622	2.5675505	21	9 20.5	19.3
156360 2001 XP_{215}	16.2	X	191.66354	87.61162	66.47295	6.41104	0.0810627	0.23908940	2.5709630	21	9 27.2	20.0
156361 2001 XU_{217}	16.1	X	282.43155	253.20845	214.34009	0.36473	0.0611463	0.24153581	2.5535735	21	11 20.8	19.3
156362 2001 XN_{224}	16.5	X	108.12895	347.76996	9.25526	1.58562	0.1927974	0.25942938	2.4347625	21	—	—
156363 2001 XZ_{228}	16.2	X	203.12890	252.88081	43.15610	6.20457	0.1419442	0.26240276	2.4163348	21	—	—
156364 2001 XG_{233}	17.0	X	66.50588	56.94346	353.82337	1.02821	0.1726580	0.25863554	2.4397421	21	—	—
156365 2001 XD_{235}	16.0	X	196.11308	226.84880	266.73027	8.32413	0.0723180	0.23552123	2.5968648	21	8 28.9	19.9
156366 2001 XV_{237}	16.1	X	210.13104	235.49083	72.64342	7.40316	0.1788504	0.26530438	2.3986843	21	1 19.1	20.0
156367 2001 XC_{248}	16.0	X	205.07989	50.41370	89.91367	12.01248	0.2049574	0.23744262	2.5828366	21	9 17.8	20.4
156368 2001 XR_{252}	15.7	X	106.17651	113.16024	113.39846	9.39515	0.0947657	0.23321856	2.6139301	21	9 27.3	19.6
156369 2001 XD_{253}	16.3	X	251.49790	335.74438	142.20589	4.35943	0.1345640	0.23831643	2.5765193	21	10 12.6	19.8
156370 2001 XC_{260}	16.0	X	227.03676	277.06774	9.60155	6.39527	0.1233978	0.26337160	2.4104054	21	1 8.1	19.7
156371 2001 YN_{4}	14.6	X	231.18110	29.81538	18.97548	30.44266	0.2350357	0.22529171	2.6748899	21	5 30.2	19.6
156372 2001 YT_{4}	15.4	X	308.94276	58.02511	32.67147	14.11489	0.1464074	0.24468710	2.5316014	21	12 1.1	18.1
156373 2001 YR_{12}	16.4	X	278.94011	13.73647	225.18189	2.53035	0.1520210	0.26384215	2.4075386	21	—	—
156374 2001 YU_{16}	16.1	X	238.24091	69.28777	87.65221	10.11396	0.0800954	0.24349945	2.5398266	21	11 24.3	19.4
156375 2001 YG_{23}	16.5	X	279.26957	27.03853	57.45574	2.71394	0.0525337	0.24248634	2.5468959	21	10 18.2	19.6
156376 2001 YB_{28}	16.6	X	212.71241	239.65438	270.89393	2.75605	0.1594986	0.24081430	2.5586715	21	10 4.1	20.4
156377 2001 YQ_{41}	16.0	X	192.19255	107.99570	76.17109	11.62621	0.0667909	0.24177872	2.5518629	21	11 6.8	19.7
156378 2001 YS_{47}	17.0	X	141.29171	143.84344	302.06745	0.96637	0.2276937	0.22167747	2.7038858	21	5 12.8	21.4
156379 2001 YJ_{64}	15.8	X	36.71790	217.77689	80.18669	14.75419	0.0613080	0.23556682	2.5965298	21	10 1.8	19.4
156380 2001 YL_{70}	15.6	X	300.55806	46.42733	3.86406	3.11497	0.1626509	0.23858141	2.5746112	21	9 17.4	18.2
156381 2001 YT_{71}	15.9	X	351.90944	329.20691	31.98778	2.84588	0.2287769	0.24078477	2.5588807	21	10 25.1	17.7
156382 2001 YU_{73}	15.6	X	166.69703	31.06332	92.72920	14.43392	0.1182577	0.22744289	2.6579969	21	7 18.9	19.7
156383 2001 YE_{80}	15.6	X	254.64648	349.81563	95.12996	3.96756	0.1415642	0.23523982	2.5989354	21	9 1.2	19.2
156384 2001 YS_{81}	16.8	X	126.75969	25.12432	61.71043	2.12353	0.2343884	0.21829970	2.7317060	21	5 2.1	21.1
156385 2001 YC_{83}	15.6	X	86.52404	257.21536	300.44290	10.16974	0.1286391	0.22446038	2.6814904	21	7 26.4	19.1
156386 2001 YR_{87}	15.5	X	97.37811	295.64331	301.94264	10.52634	0.1480346	0.23234718	2.6204615	21	9 26.9	19.6
156387 2001 YQ_{100}	15.7	X	131.76402	291.24572	264.37432	13.28152	0.1386257	0.23260374	2.6185342	21	9 6.8	20.1
156388 2001 YE_{101}	16.2	X	31.78485	150.07652	232.81178	3.66358	0.0515105	0.24796253	2.5092581	21	—	—
156389 2001 YJ_{102}	15.9	X	172.65392	346.23001	247.24826	5.59393	0.0532809	0.24543758	2.5264382	21	12 15.1	19.3
156390 2001 YM_{103}	15.5	X	116.86042	86.93572	100.65613	15.66950	0.0905874	0.22895765	2.6462606	21	8 17.9	19.5
156391 2001 YX_{107}	16.0	X	299.50641	275.31166	138.75854	4.71586	0.2341892	0.23815934	2.5776521	21	9 10.1	18.6
156392 2001 YA_{113}	15.7	X	92.75983	26.43000	90.41127	8.96812	0.1745030	0.21535835	2.7565227	21	4 28.3	19.5
156393 2001 YA_{124}	16.0	X	188.71851	339.19346	4.50844	5.46092	0.2463429	0.26863198	2.3788346	21	2 15.7	20.0
156394 2001 YA_{139}	15.6	X	77.07562	76.27621	92.75349	10.85380	0.1398318	0.21924950	2.7238110	21	6 7.3	19.0
156395 2001 YS_{140}	16.6	X	217.92872	249.22866	89.80126	6.51924	0.1156507	0.27311684	2.3527208	21	3 6.1	20.2
156396 2001 YH_{146}	16.3	X	60.40269	350.29180	32.83868	3.40333	0.1964579	0.25340495	2.4732005	21	—	—
156397 2001 YK_{147}	15.4	X	275.09647	356.85422	55.11163	14.22116	0.1549700	0.23401847	2.6079702	21	8 17.3	19.1
156398 2001 YC_{153}	15.9	X	214.18785	53.99266	7.16874	12.75616	0.1605404	0.22769108	2.6560651	21	6 12.6	20.4
156399 2001 YA_{156}	15.7	X	200.04818	129.97705	325.24814	13.15431	0.0831509	0.23026312	2.6362492	21	7 19.9	19.7
156400 2001 YR_{161}	15.9	X	262.53086	30.09884	25.18112	13.15395	0.1468033	0.23392828	2.6086405	21	8 5.2	19.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
156401 2002 AK_3	16.0	X	133.23628	11.86715	113.48580	14.58751	0.1862823	0.22520638	2.6755655	21	6 21.8	20.3
156402 2002 AO_4	15.4	X	101.33637	29.15133	73.52635	29.19388	0.2909103	0.21422009	2.7662786	21	5 11.9	19.8
156403 2002 AX_{20}	15.8	X	201.32804	345.46994	128.51440	8.36246	0.1410073	0.23370915	2.6102708	21	8 9.7	19.8
156404 2002 AQ_{24}	15.6	X	165.95093	80.95983	125.15667	22.32704	0.0128815	0.23834878	2.5762862	21	11 12.3	19.6
156405 2002 AS_{34}	15.7	X	225.92756	132.16997	297.29928	2.31278	0.1807706	0.22872827	2.6480295	21	7 4.7	20.0
156406 2002 AW_{40}	16.4	X	250.40448	298.42220	146.51477	4.44759	0.2363129	0.23528296	2.5986178	21	8 12.6	20.4
156407 2002 AE_{42}	15.8	X	107.34688	3.08491	147.07226	5.72984	0.1009618	0.22048246	2.7136470	21	6 15.6	19.6
156408 2002 AE_{44}	16.5	X	247.79098	167.89779	246.75188	3.79697	0.1523643	0.23116278	2.6294047	21	7 10.6	20.4
156409 2002 AO_{46}	15.5	X	346.60435	184.86346	128.03892	12.28516	0.0746113	0.22869579	2.6482802	21	7 25.7	18.4
156410 2002 AG_{49}	16.4	X	246.88468	298.11680	133.47269	5.05272	0.2163823	0.23263265	2.6183172	21	7 24.7	20.5
156411 2002 AM_{55}	16.0	X	73.04744	329.19673	292.59542	2.59593	0.0788583	0.23212519	2.6221319	21	9 24.9	19.4
156412 2002 AQ_{57}	14.9	X	97.16307	77.90649	132.35166	27.96672	0.1339342	0.22536846	2.6742826	21	8 28.1	18.9
156413 2002 AQ_{63}	14.9	X	40.56436	233.23018	308.70294	11.96976	0.1711030	0.21261936	2.7801454	21	4 22.9	18.2
156414 2002 AS_{67}	16.0	X	141.94765	110.29118	98.07536	12.26019	0.2202925	0.23553372	2.5967730	21	10 18.2	20.6
156415 2002 AN_{70}	16.2	X	206.63596	88.19138	15.60205	1.59849	0.1325594	0.23239518	2.6201007	21	8 2.6	20.3
156416 2002 AZ_{73}	16.1	X	277.94663	351.70396	82.66760	1.99927	0.0165122	0.23703690	2.5857830	21	10 7.1	19.4
156417 2002 AA_{77}	16.1	X	267.78146	33.40076	336.72365	4.87023	0.2548304	0.23038318	2.6353333	21	5 22.1	20.2
156418 2002 AV_{81}	15.9	X	174.54371	326.31043	193.53604	4.93216	0.2050162	0.23245429	2.6196565	21	9 8.3	20.3
156419 2002 AJ_{82}	15.3	X	139.49271	200.76921	132.59486	7.84670	0.1672111	0.25836303	2.4414574	21	—	—
156420 2002 AC_{86}	15.7	X	192.57888	306.32886	127.31545	22.47281	0.0430441	0.22433979	2.6824513	21	6 15.3	19.9
156421 2002 AA_{87}	15.6	X	88.00014	61.71744	159.21365	7.64126	0.1664797	0.22636973	2.6663908	21	9 2.7	19.5
156422 2002 AW_{88}	15.6	X	148.21757	332.73662	252.97778	8.10737	0.1052636	0.23728590	2.5839738	21	11 5.1	19.5
156423 2002 AD_{92}	15.4	X	269.27994	88.08504	183.61449	14.57038	0.1294378	0.20473326	2.8510868	21	2 5.3	19.9
156424 2002 AG_{94}	16.7	X	322.45621	56.62231	34.46787	2.65370	0.0459435	0.24522004	2.5279321	21	12 29.6	19.8
156425 2002 AE_{97}	15.6	X	107.27273	280.75136	309.18079	7.32132	0.1023259	0.23193755	2.6235460	21	9 25.3	19.5
156426 2002 AJ_{101}	15.7	X	59.55924	184.23385	315.23496	8.17897	0.0444779	0.21454830	2.7634567	21	3 16.4	19.5
156427 2002 AV_{101}	15.9	X	90.14552	165.77303	93.03952	4.92192	0.0799144	0.23469510	2.6029553	21	10 16.6	19.5
156428 2002 AD_{102}	15.8	X	8.00539	214.50628	104.77762	17.88274	0.0839822	0.23261743	2.6184315	21	9 18.5	19.3
156429 2002 AJ_{102}	16.1	X	106.46812	46.33584	97.88527	3.75888	0.1253350	0.22071007	2.7117811	21	6 9.8	19.9
156430 2002 AL_{103}	16.1	X	195.92058	317.50046	43.04784	2.06372	0.2010814	0.26725721	2.3869854	21	3 11.8	20.0
156431 2002 AX_{104}	15.9	X	123.37584	269.52519	311.83181	2.62701	0.0525145	0.23363756	2.6108040	21	9 30.9	19.6
156432 2002 AZ_{104}	16.1	X	290.46181	325.02007	57.02439	1.09905	0.1750670	0.23273409	2.6175564	21	7 18.9	19.2
156433 2002 AD_{113}	15.9	X	153.13509	162.78379	331.54065	3.42318	0.0337237	0.22493234	2.6777382	21	7 13.9	19.7
156434 2002 AT_{119}	16.0	X	229.46703	40.89324	26.14011	1.77413	0.1929274	0.22881149	2.6473874	21	7 4.2	20.3
156435 2002 AO_{120}	15.0	X	240.60524	288.98935	125.55939	29.05644	0.1528814	0.22810583	2.6528445	21	7 5.1	19.2
156436 2002 AB_{123}	16.3	X	191.62919	68.77005	55.12609	2.06610	0.2194203	0.22842658	2.6503606	21	8 10.4	20.8
156437 2002 AS_{136}	15.7	X	106.39627	331.88631	267.63775	5.08500	0.1339807	0.23367389	2.6105334	21	10 11.0	19.8
156438 2002 AZ_{140}	15.6	X	150.93387	313.03999	284.06885	5.10211	0.2133666	0.23929440	2.5694945	21	11 21.7	20.1
156439 2002 AT_{146}	17.1	X	216.48470	157.98350	269.12639	1.87598	0.0850412	0.22757284	2.6569850	21	6 28.8	20.9
156440 2002 AY_{148}	16.2	X	153.51191	346.89675	104.51818	3.06513	0.2136414	0.21988505	2.7185600	21	5 30.1	20.7
156441 2002 AU_{154}	15.9	X	267.47089	288.97019	132.23592	5.05499	0.2065473	0.23185865	2.6241411	21	8 4.9	19.3
156442 2002 AG_{157}	15.7	X	23.95324	55.11049	158.97822	4.48019	0.0754914	0.21664917	2.7455627	21	5 9.6	19.0
156443 2002 AR_{160}	16.1	X	209.99340	217.13650	244.92850	2.90022	0.1449782	0.22876414	2.6477527	21	8 1.4	20.3
156444 2002 AH_{163}	15.6	X	119.60442	324.33642	139.17802	14.45021	0.1541889	0.21646367	2.7471310	21	5 11.8	19.9
156445 2002 AQ_{163}	15.8	X	99.21465	50.20716	139.53623	6.04174	0.1023237	0.22269698	2.6956272	21	7 27.8	19.5
156446 2002 AZ_{166}	15.6	X	246.08690	179.37469	231.93302	3.36894	0.3124110	0.22922443	2.6442070	21	6 19.1	20.0
156447 2002 AM_{177}	16.1	X	170.42069	141.40459	341.60207	1.90626	0.0980535	0.22545163	2.6736248	21	7 21.2	20.1
156448 2002 AU_{180}	15.8	X	115.22344	131.28895	33.57379	13.84436	0.1958402	0.22524824	2.6752340	21	7 29.2	20.2
156449 2002 AH_{182}	16.0	X	169.11571	305.59469	49.75407	5.42962	0.2012970	0.26258894	2.4151926	21	2 12.3	19.8
156450 2002 AS_{198}	16.8	X	193.84157	234.37553	126.05996	3.38587	0.2369058	0.26802649	2.3824159	21	3 11.0	20.8
156451 2002 AH_{203}	16.3	X	266.20981	192.19402	221.11497	2.81183	0.1919105	0.23267670	2.6179868	21	7 24.9	20.1
156452 2002 BU_3	15.4	X	147.93764	75.91420	25.35997	12.81124	0.2269645	0.22187230	2.7023027	21	6 4.4	20.1
156453 2002 BC_8	16.1	X	115.22257	131.66105	8.39493	2.65556	0.1277362	0.21973041	2.7198353	21	6 14.7	20.1
156454 2002 BN_9	16.1	X	221.46395	348.23532	112.85085	3.74931	0.1787844	0.22993592	2.6387495	21	8 10.6	20.2
156455 2002 BD_{14}	16.3	X	115.68113	241.86425	272.59911	2.19525	0.1335932	0.22084585	2.7106694	21	7 4.9	20.4
156456 2002 BD_{16}	16.2	X	204.02790	246.80134	206.56113	2.72615	0.1271848	0.22672972	2.6635678	21	7 16.4	20.2
156457 2002 BU_{24}	15.4	X	170.12186	6.51972	107.19524	16.09400	0.0626105	0.22291016	2.6939083	21	7 7.7	19.2
156458 2002 BP_{27}	16.5	X	164.40332	62.89337	29.75440	6.19666	0.2656821	0.22369216	2.6876263	21	6 10.3	21.3
156459 2002 BQ_{27}	15.4	X	255.63144	257.43334	86.01662	12.34791	0.2807627	0.27318196	2.3523469	21	4 10.4	19.5
156460 2002 BU_{27}	16.4	X	288.29383	319.22009	82.86294	4.75023	0.1183990	0.23354056	2.6115269	21	8 24.4	19.5
156461 2002 BM_{29}	15.4	X	188.53952	300.71102	85.55206	13.06045	0.1615074	0.21728558	2.7401991	21	4 14.9	20.1
156462 2002 BZ_{30}	15.8	X	314.15727	29.64960	16.52090	13.54905	0.1731446	0.23816521	2.5776098	21	10 6.6	18.1
156463 2002 CS_2	15.3	X	127.52100	257.53428	18.87313	6.67168	0.1591079	0.23977215	2.5660802	21	12 18.9	19.5
156464 2002 CD_5	16.6	X	206.27622	64.85345	20.99812	1.76503	0.1613977	0.22698743	2.6615513	21	7 8.2	20.8
156465 2002 CB_8	16.4	X	132.01982	189.05203	36.90444	2.48297	0.0387793	0.23492774	2.6012365	21	10 18.0	20.0
156466 2002 CG_{10}	18.4	X	326.05352	81.51032	344.44145	17.80154	0.1023241	0.39273290	1.8467348	21	—	—
156467 2002 CK_{21}	16.1	X	100.58760	229.85771	319.18802	3.37851	0.0447337	0.22452075	2.6810098	21	7 21.3	19.7
156468 2002 CQ_{33}	15.2	X	51.95090	163.71110	108.81870	13.33735	0.1675142	0.22642471	2.6659592	21	10 2.4	18.9
156469 2002 CV_{33}	15.4	X	88.12862	184.28412	7.43200	9.74519	0.1328932	0.22099754	2.7094289	21	7 24.4	19.3
156470 2002 CM_{37}	15.8	X	103.13708	161.50223	5.94260	4.04126	0.0411121	0.22085258	2.7106144	21	6 24.5	19.6
156471 2002 CE_{40}	15.6	X	208.72390	273.95086	220.71546	10.15852	0.1386880	0.23259400	2.6186073	21	9 8.7	19.8
156472 2002 CP_{45}	16.2	X	123.73435	24.66424	130.43741	2.27012	0.0288348	0.22159976	2.7045179	21	7 3.0	19.9
156473 2002 CK_{46}	15.0	X	92.85582	52.02822	155.00225	26.71820	0.1808162	0.22270911	2.6955293	21	8 22.2	19.0
156474 2002 CN_{46}	15.8	X	62.36099	22.45304	247.98438	3.29741	0.1089888	0.22820375	2.6520856	21	9 26.2	19.3
156475 2002 CG_{47}	16.4	X	107.82942	322.89063	193.85727	2.82800	0.0228670	0.22176620	2.7031645	21	6 13.6	20.1
156476 2002 CO_{49}	15.2	X	283.73749	2.31906	52.04929	5.86804	0.2942759	0.23458189	2.6037926	21	8 5.6	18.5
156477 2002 CO_{52}	15.4	X	75.01585	298.12182	151.60201	5.58129	0.0803185	0.20527634	2.8460560	21	2 10.7	19.0
156478 2002 CV_{53}	15.7	X	95.34895	356.72071	159.06117	12.68412	0.1382486	0.21738603	2.7393549	21	6 14.3	19.8
156479 2002 CR_{60}	15.4	X	93.12432	149.66625	74.60439	8.60975	0.1831570	0.22601434	2.6691853	21	9 19.4	19.5
156480 2002 CH_{62}	15.4	X	71.72944	260.05065	12.60547	11.94098	0.1500264	0.23008163	2.6376353	21	10 17.1	19.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
156481 2002 CH_{63}	16.3	X	39.83315	111.58561	91.32686	9.59696	0.1973827	0.21479603	2.7613315	21	6 2.3	19.1
156482 2002 CS_{63}	15.3	X	238.11061	306.71543	121.54437	22.62658	0.1035381	0.22747596	2.6577393	21	7 23.7	19.2
156483 2002 CX_{63}	15.9	X	112.29283	68.62720	41.29787	8.00046	0.1777305	0.21601248	2.7509550	21	5 9.2	19.8
156484 2002 CG_{65}	15.8	X	120.64993	68.82535	16.24446	11.77268	0.1004532	0.21376076	2.7702400	21	4 7.5	19.5
156485 2002 CE_{66}	16.5	X	190.47296	194.82374	326.66504	0.69470	0.0804806	0.23438876	2.6052227	21	10 1.3	20.4
156486 2002 CO_{79}	15.8	X	230.39298	334.53955	144.04891	4.56848	0.0564194	0.23218976	2.6216457	21	9 26.9	19.3
156487 2002 CU_{85}	16.1	X	60.85957	208.95377	77.77944	1.97583	0.0602644	0.23236511	2.6203267	21	10 11.5	19.6
156488 2002 CV_{88}	16.0	X	291.63356	309.40307	55.83546	3.23888	0.0711101	0.22568321	2.6717955	21	7 14.1	19.5
156489 2002 CY_{93}	15.8	X	145.27928	131.83346	13.78624	4.34688	0.0494382	0.22292313	2.6938038	21	7 20.9	19.6
156490 2002 CX_{94}	15.8	X	17.40804	259.14540	352.67445	4.41440	0.0592633	0.21861114	2.7291109	21	6 18.7	19.1
156491 2002 CN_{101}	15.8	X	165.63571	81.77869	11.14547	4.85745	0.0634569	0.21837501	2.7310779	21	6 4.4	19.9
156492 2002 CN_{108}	15.1	X	15.07736	85.16235	144.00969	8.29070	0.1661666	0.21123992	2.7922355	21	5 19.6	18.1
156493 2002 CC_{111}	15.6	X	99.18731	97.26233	1.03407	9.66452	0.0867356	0.20938649	2.8086887	21	3 26.6	19.5
156494 2002 CT_{120}	16.0	X	39.56057	347.08175	201.60276	3.30476	0.1586878	0.21567278	2.7538429	21	5 6.1	18.7
156495 2002 CD_{122}	16.1	X	66.11512	349.94950	225.70865	1.61849	0.1237450	0.22144687	2.7057626	21	7 21.9	19.6
156496 2002 CN_{122}	16.4	X	252.15412	264.80043	182.13585	4.54817	0.1977305	0.23340668	2.6125254	21	8 21.0	20.2
156497 2002 CW_{129}	16.1	X	218.94631	269.24054	183.77482	5.71198	0.1385198	0.22794031	2.6541286	21	7 29.9	20.2
156498 2002 CZ_{129}	15.8	X	11.61851	42.24534	213.67816	2.51723	0.0141378	0.21986075	2.7187603	21	6 14.4	19.4
156499 2002 CD_{138}	15.9	X	112.77014	274.96075	223.05846	4.21084	0.1041145	0.21948455	2.7218661	21	6 6.4	19.6
156500 2002 CU_{142}	15.9	X	78.23441	353.72112	258.49895	1.26395	0.0810200	0.23075327	2.6325147	21	9 19.8	19.5
156501 2002 CZ_{142}	15.8	X	2.66089	151.89115	133.42125	15.32486	0.0445196	0.22573529	2.6713846	21	7 12.3	19.3
156502 2002 CZ_{143}	15.7	X	336.21458	293.06479	156.58122	11.06164	0.0736408	0.19257506	2.9698603	21	—	—
156503 2002 CD_{151}	16.2	X	280.38792	258.34263	152.58045	13.24059	0.2999320	0.23319948	2.6140727	21	7 23.2	20.0
156504 2002 CX_{162}	16.0	X	340.53967	17.21788	25.72276	4.99936	0.1892014	0.24079771	2.5587891	21	11 27.7	18.3
156505 2002 CA_{163}	15.8	X	76.74379	170.57121	30.07744	5.64504	0.0660784	0.22184317	2.7025393	21	7 8.5	19.4
156506 2002 CW_{165}	15.8	X	71.68088	195.70245	72.81859	3.50147	0.0597090	0.22971405	2.6404483	21	10 2.2	19.4
156507 2002 CH_{166}	16.0	X	259.62678	14.45340	56.14040	4.58227	0.0505970	0.22964461	2.6409806	21	9 2.5	19.6
156508 2002 CH_{167}	15.5	X	141.15988	126.95737	351.50791	12.73854	0.0660076	0.21946698	2.7220113	21	6 8.4	19.7
156509 2002 CJ_{168}	15.3	X	56.31478	181.12744	355.71702	11.44602	0.0542896	0.21453116	2.7636038	21	4 30.5	19.0
156510 2002 CF_{171}	15.2	X	108.81750	4.98081	144.92773	14.06882	0.0927326	0.21732317	2.7398830	21	6 17.2	19.3
156511 2002 CS_{183}	16.3	X	230.46640	12.16395	5.86200	2.80621	0.0972494	0.22053825	2.7131893	21	5 10.0	20.3
156512 2002 CX_{186}	16.7	X	157.36249	115.19127	9.49768	0.24977	0.0769286	0.22353446	2.6888902	21	7 7.9	20.5
156513 2002 CJ_{199}	16.2	X	98.37407	82.68138	133.91265	2.61802	0.0597237	0.22607899	2.6686764	21	8 26.8	19.7
156514 2002 CR_{203}	16.2	X	90.32100	73.29315	10.78851	2.11570	0.1170200	0.20888246	2.8132052	21	3 2.2	19.8
156515 2002 CB_{214}	16.2	X	165.80334	318.11542	126.96049	2.97685	0.0466279	0.21780845	2.7358119	21	5 25.9	20.2
156516 2002 CR_{215}	16.1	X	179.09222	316.42528	133.99441	2.81747	0.0429772	0.22005810	2.7171346	21	6 17.4	19.9
156517 2002 CQ_{216}	15.7	X	27.78362	156.64469	154.24073	5.56735	0.1317413	0.22736778	2.6585822	21	10 7.6	18.8
156518 2002 CV_{216}	15.5	X	335.69296	154.44429	138.59430	10.13463	0.0616325	0.21820519	2.7324947	21	6 12.0	19.1
156519 2002 CQ_{217}	15.6	X	0.88319	119.41116	143.68071	7.04956	0.0074881	0.21805534	2.7337464	21	6 10.1	19.3
156520 2002 CB_{221}	15.6	X	34.54373	123.06994	8.57698	7.97295	0.1748044	0.20508018	2.8478706	21	2 9.7	18.5
156521 2002 CQ_{228}	15.7	X	140.88639	291.52939	175.19329	13.36563	0.1277106	0.21837524	2.7310760	21	6 1.9	20.1
156522 2002 CO_{230}	15.7	X	218.94332	10.48275	5.36096	4.94873	0.0575747	0.21362238	2.7714361	21	4 26.8	19.6
156523 2002 CL_{249}	16.2	X	114.33724	277.46526	212.88470	2.21303	0.1327905	0.21626422	2.7488197	21	6 2.1	20.2
156524 2002 CS_{253}	15.6	X	140.38172	23.51087	48.10449	6.64348	0.2108703	0.21617897	2.7495424	21	4 24.4	20.0
156525 2002 CW_{253}	15.8	X	47.31059	213.49571	70.86437	3.78049	0.0263510	0.22937189	2.6430736	21	9 15.6	19.2
156526 2002 CT_{254}	15.7	X	182.09798	275.57618	165.47452	12.95368	0.1372978	0.22319640	2.6916046	21	6 10.6	20.2
156527 2002 CD_{256}	15.7	X	34.54344	135.05299	77.58778	5.99695	0.0493645	0.21936151	2.7228837	21	5 21.6	19.1
156528 2002 CS_{258}	16.0	X	287.26764	265.08767	151.06247	12.14289	0.0692876	0.23434308	2.6055613	21	9 19.0	19.2
156529 2002 CR_{259}	16.2	X	114.40967	70.59912	19.98585	7.52787	0.1974194	0.21358299	2.7717770	21	4 19.4	20.2
156530 2002 CT_{263}	16.2	X	41.93876	248.04088	321.21576	2.95150	0.0281674	0.21779659	2.7359112	21	5 24.7	19.8
156531 2002 CA_{268}	15.4	X	74.84155	176.10969	65.77725	12.81818	0.1391397	0.22806243	2.6531811	21	9 18.4	19.3
156532 2002 CA_{277}	16.0	X	222.38147	210.10737	165.10428	5.01118	0.1275039	0.21817579	2.7327402	21	4 28.6	20.2
156533 2002 CP_{279}	16.0	X	33.28278	352.07587	283.70983	1.09498	0.0434381	0.22610224	2.6684934	21	8 14.3	19.1
156534 2002 CK_{283}	15.7	X	350.72704	333.99928	160.39996	2.32140	0.0145475	0.19875968	2.9079294	21	—	—
156535 2002 CT_{294}	15.7	X	179.23425	15.02249	102.66638	15.21255	0.0376174	0.22630186	2.6669240	21	7 24.5	19.5
156536 2002 CV_{297}	16.0	X	349.76050	92.32619	177.37883	5.05962	0.0717156	0.21958602	2.7210275	21	5 31.3	19.3
156537 2002 CU_{300}	15.9	X	6.21361	306.93497	298.26122	4.14247	0.0741233	0.21622716	2.7491338	21	5 21.8	19.2
156538 2002 CG_{301}	15.9	X	310.07666	171.63153	170.03341	6.38190	0.0578689	0.22207714	2.7006407	21	7 9.1	19.4
156539 2002 CK_{309}	15.9	X	223.32872	212.79441	204.85536	4.63545	0.0305435	0.22252591	2.6970086	21	6 28.8	19.6
156540 2002 CK_{310}	16.6	X	123.56175	280.38203	199.89582	2.36739	0.1763145	0.21805322	2.7337641	21	6 4.2	20.8
156541 2002 CA_{311}	15.8	X	109.82635	108.49463	39.81314	9.91480	0.0637208	0.21729879	2.7400880	21	6 9.5	19.7
156542 Hogg	16.5	X	64.68492	125.44504	333.90088	1.34163	0.0285019	0.20501721	2.8484538	21	2 3.9	20.4
156543 2002 DW_{1}	15.2	X	47.72830	204.43156	94.13669	23.64904	0.0618523	0.22997871	2.6384222	21	10 22.3	19.2
156544 2002 DZ_{8}	15.4	X	106.84391	228.24750	36.53060	14.47296	0.1406212	0.23424557	2.6062843	21	11 12.8	19.4
156545 2002 DF_{10}	16.2	X	155.97165	244.64666	210.42221	2.80579	0.0854690	0.21797488	2.7344192	21	5 29.5	20.2
156546 2002 DN_{14}	16.3	X	28.42131	123.55240	137.78676	1.84673	0.0374215	0.22200841	2.7011981	21	7 17.3	19.6
156547 2002 DX_{14}	16.2	X	292.23930	274.14132	167.29980	7.51780	0.2177952	0.23854218	2.5748934	21	10 10.4	18.9
156548 2002 EM_{1}	15.4	X	60.40786	241.43085	35.30436	12.88768	0.0928269	0.22797678	2.6538455	21	10 5.1	18.9
156549 2002 EY_{3}	16.1	X	310.59245	131.67473	168.33435	2.80121	0.0531813	0.21520165	2.7578607	21	5 15.9	19.8
156550 2002 ES_{12}	16.6	X	286.69862	12.53883	3.26339	1.41812	0.0890491	0.22741225	2.6582357	21	7 18.6	19.9
156551 2002 EH_{29}	15.1	X	143.04992	0.63690	22.58063	6.28434	0.0730753	0.20324970	2.8649438	21	2 16.2	19.2
156552 2002 EL_{29}	16.0	X	62.05721	344.97450	166.36154	2.03796	0.2010109	0.21073150	2.7967248	21	4 30.8	19.1
156553 2002 EC_{31}	15.2	X	303.42005	61.14949	160.71750	2.32028	0.0175486	0.20195452	2.8771798	21	1 31.8	19.2
156554 2002 ET_{39}	15.6	X	135.85644	264.34183	188.35471	7.01548	0.0182788	0.21322959	2.7748387	21	4 26.8	19.3
156555 2002 EB_{47}	15.7	X	6.20526	155.98178	154.40568	14.25587	0.0805738	0.22666068	2.6641086	21	8 24.0	18.6
156556 2002 EE_{47}	16.1	X	4.25466	246.07048	342.72788	0.61966	0.0576460	0.21235130	2.7824846	21	4 27.4	19.4
156557 2002 EQ_{50}	15.7	X	244.24744	240.62010	340.14191	0.22570	0.0750343	0.19354420	2.9599380	21	—	—
156558 2002 EV_{50}	15.0	X	66.89658	312.82434	355.81599	10.03775	0.0839942	0.18055928	3.1001985	21	11 7.4	19.5
156559 2002 EX_{51}	15.7	X	218.33716	240.65927	148.87448	5.83498	0.0670510	0.21669082	2.7452109	21	5 16.1	19.7
156560 2002 EE_{54}	15.5	X	224.03214	180.07450	201.47949	5.45881	0.0764241	0.21522357	2.7576734	21	5 10.7	19.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
156561 2002 EK_{61}	15.6	X	167.09379	88.41484	266.45448	0.97231	0.0766285	0.20353074	2.8623059	21	2 5.9	19.7
156562 2002 EB_{64}	15.6	X	318.02504	153.49776	185.70349	6.10643	0.1029552	0.22131611	2.7068282	21	7 11.9	19.0
156563 2002 EL_{76}	15.7	X	72.38503	151.64559	191.20721	3.15762	0.2632221	0.23927032	2.5696669	21	—	—
156564 2002 EC_{82}	15.5	X	117.12513	180.78355	224.03293	5.03640	0.1197030	0.20400231	2.8578932	21	2 13.9	19.6
156565 2002 EF_{85}	16.2	X	9.06182	192.76084	26.18363	4.52620	0.1398657	0.21177309	2.7875470	21	4 19.4	19.1
156566 2002 EU_{85}	15.5	X	53.66489	35.68984	165.01826	3.36883	0.1018015	0.21410426	2.7672762	21	6 9.6	18.9
156567 2002 EL_{86}	15.2	X	237.06319	221.09386	15.84990	10.84028	0.1053607	0.19245989	2.9710449	21	—	—
156568 2002 EN_{97}	15.5	X	96.01831	269.95132	190.99013	13.78884	0.1204166	0.21082689	2.7958812	21	3 31.3	19.1
156569 2002 EP_{101}	15.2	X	41.10179	117.81216	62.27201	8.38509	0.2374118	0.21145840	2.7903119	21	5 7.7	17.7
156570 2002 EF_{102}	15.3	X	91.07774	56.75559	94.46741	13.25687	0.0918380	0.21503318	2.7593009	21	5 27.8	19.1
156571 2002 EX_{106}	15.5	X	201.90505	298.44215	93.79179	7.70507	0.0673311	0.21382504	2.7696848	21	5 2.2	19.7
156572 2002 EC_{129}	15.7	X	225.72385	208.13692	182.77830	5.23308	0.0670556	0.21616970	2.7496210	21	5 25.6	19.8
156573 2002 EP_{131}	15.9	X	42.89744	330.44022	157.52066	2.37408	0.0204752	0.20372994	2.8604398	21	2 10.6	19.7
156574 2002 EK_{133}	15.6	X	117.31714	157.33267	236.92342	1.16924	0.0522534	0.20115318	2.8848160	21	1 24.9	19.7
156575 2002 ER_{136}	15.9	X	250.52040	322.79156	153.37303	4.32994	0.0841918	0.18212701	3.0823821	21	10 9.1	20.3
156576 2002 EF_{139}	16.1	X	233.83100	265.50329	132.21594	3.24602	0.0930937	0.21904485	2.7255073	21	6 9.9	20.1
156577 2002 EH_{139}	15.8	X	280.04324	329.26512	30.02137	5.33476	0.0718773	0.21891057	2.7266217	21	6 18.6	19.5
156578 2002 EZ_{149}	15.8	X	211.81084	136.51018	147.38060	2.20928	0.1010827	0.19616203	2.9335450	21	—	—
156579 2002 ES_{150}	15.5	X	315.29159	295.82597	59.02838	3.43899	0.0936563	0.22255759	2.6967526	21	8 2.4	18.8
156580 2002 EF_{157}	16.0	X	76.54785	129.66286	136.62303	14.72985	0.1113347	0.23177253	2.6247911	21	10 17.0	19.9
156581 2002 FO	17.5	X	322.09502	272.86082	181.32380	21.61234	0.1515339	0.39277061	1.8466166	21	—	—
156582 2002 FK_{20}	15.3	X	351.16804	130.95383	111.38874	8.30090	0.1522453	0.20961881	2.8066131	21	4 22.9	18.5
156583 2002 FF_{21}	15.7	X	235.78075	186.35985	125.18638	3.13723	0.0532887	0.20363803	2.8613004	21	2 27.9	19.8
156584 2002 FH_{30}	15.3	X	180.07485	78.13082	103.87299	2.48284	0.0862248	0.17863483	3.1224246	21	10 11.4	20.1
156585 2002 GN_{37}	15.6	X	164.20734	223.40348	199.51579	3.92484	0.0598497	0.21138663	2.7909434	21	4 26.3	19.5
156586 2002 GV_{41}	15.4	X	0.05854	253.77112	201.46015	9.95993	0.0883322	0.19271222	2.9684510	21	—	—
156587 2002 GB_{42}	15.3	X	323.83824	110.11481	198.53906	11.65372	0.2060318	0.21285691	2.7780765	21	5 26.5	18.5
156588 2002 GH_{45}	15.8	X	327.80629	109.81711	16.83406	5.17035	0.1550495	0.19264650	2.9691261	21	—	—
156589 2002 GT_{51}	15.5	X	275.97541	32.51680	65.50587	3.70125	0.1552448	0.18145149	3.0900276	21	10 8.6	19.6
156590 2002 GD_{52}	15.8	X	164.59621	286.83343	20.42805	3.03761	0.0842078	0.19080698	2.9881786	21	—	—
156591 2002 GP_{54}	15.3	X	175.92252	155.56715	174.14147	1.88511	0.0877711	0.19630887	2.9320819	21	1 18.1	19.6
156592 2002 GF_{59}	16.0	X	202.11627	322.14085	213.38514	0.37645	0.1234538	0.18058476	3.0999069	21	10 22.5	20.9
156593 2002 GS_{63}	15.5	X	163.10309	94.57378	197.64164	5.67679	0.1675632	0.18578145	3.0418269	21	—	—
156594 2002 GT_{66}	15.0	X	204.84776	359.15309	36.32588	9.94629	0.1549723	0.21107190	2.7937171	21	5 4.2	19.6
156595 2002 GU_{68}	15.2	X	156.40448	128.01234	158.53390	11.10317	0.2258357	0.18034345	3.1026715	21	—	—
156596 2002 GQ_{70}	14.9	X	129.16247	131.14590	148.87337	10.65285	0.2115745	0.17699971	3.1416250	21	12 18.4	20.4
156597 2002 GJ_{72}	15.5	X	119.96942	323.89261	110.67430	3.21140	0.0453696	0.20568480	2.8422869	21	3 19.4	19.4
156598 2002 GA_{76}	15.7	X	358.65405	214.97142	278.69348	1.17571	0.0609014	0.19500688	2.9451184	21	—	—
156599 2002 GY_{76}	14.7	X	329.99833	53.79238	65.32887	10.17216	0.0139961	0.18985806	2.9981270	21	—	—
156600 2002 GK_{78}	15.1	X	98.05947	233.88392	217.71705	14.31580	0.1200426	0.20478701	2.8505879	21	3 19.1	19.1
156601 2002 GT_{78}	15.0	X	288.24847	195.85498	69.76942	11.88142	0.0199722	0.20547050	2.8442629	21	3 14.5	19.1
156602 2002 GN_{82}	15.1	X	17.16063	28.47057	56.71516	10.75621	0.0549572	0.19157152	2.9802230	21	—	—
156603 2002 GR_{82}	15.2	X	253.54516	138.33891	63.49027	11.81020	0.0087298	0.18976825	2.9990729	21	—	—
156604 2002 GG_{83}	15.4	X	232.39504	111.17079	175.68365	12.90944	0.1782643	0.19514920	2.9436863	21	1 19.6	20.5
156605 2002 GE_{84}	14.9	X	125.79050	94.86195	166.55202	10.76088	0.1162763	0.17819469	3.1275640	21	11 22.3	19.9
156606 2002 GV_{85}	15.0	X	148.41432	127.60703	173.10460	9.83104	0.0813426	0.18759485	3.0221924	21	—	—
156607 2002 GE_{91}	15.1	X	126.82870	232.08677	120.72909	6.64371	0.0186909	0.19528280	2.9423436	21	—	—
156608 2002 GF_{104}	14.9	X	310.84099	71.82536	88.05616	9.75736	0.0324919	0.19096799	2.9864987	21	—	—
156609 2002 GH_{109}	15.2	X	254.73458	85.32015	132.37848	11.97101	0.0775912	0.19048230	2.9915732	21	—	—
156610 2002 GK_{114}	15.3	X	259.44571	256.28997	56.65802	8.03267	0.3146877	0.20219362	2.8749110	21	3 8.9	20.4
156611 2002 GS_{119}	15.5	X	310.53956	303.60248	199.91857	10.02323	0.0302628	0.19174451	2.9784302	21	—	—
156612 2002 GH_{120}	16.2	X	84.51777	205.92686	308.92622	0.86200	0.0347740	0.21211895	2.7845161	21	5 12.5	19.9
156613 2002 GA_{128}	16.1	X	264.51098	302.91938	318.19964	1.09176	0.0236016	0.20064035	2.8897295	21	2 1.7	20.2
156614 2002 GH_{130}	15.4	X	141.71578	311.58029	2.27759	4.26118	0.0955205	0.18827592	3.0148997	21	—	—
156615 2002 GL_{130}	16.0	X	289.41935	170.86465	344.80003	2.82263	0.0873425	0.18973572	2.9994156	21	—	—
156616 2002 GS_{133}	15.4	X	283.53717	33.87558	18.57718	2.69163	0.0419510	0.17236849	3.1976491	21	9 5.7	19.7
156617 2002 GM_{138}	15.7	X	251.78431	168.58565	120.31645	8.12172	0.0352603	0.20017748	2.8941824	21	2 21.2	19.8
156618 2002 GD_{141}	15.2	X	121.43497	102.69950	206.73277	6.31058	0.1189608	0.18245423	3.0786956	21	—	—
156619 2002 GL_{144}	15.0	X	286.53534	211.68358	78.79772	16.23014	0.1192224	0.20476391	2.8508023	21	4 1.5	19.4
156620 2002 GW_{145}	14.9	X	67.47378	224.75653	109.35105	10.91201	0.0325605	0.18156817	3.0887037	21	12 6.8	19.3
156621 2002 GV_{146}	16.0	X	164.31972	353.17510	104.99945	5.24553	0.0509560	0.21591321	2.7517982	21	6 10.4	19.9
156622 2002 GY_{150}	15.2	X	231.58061	290.08055	24.17961	10.89973	0.1846379	0.19802295	2.9151374	21	2 25.1	20.2
156623 2002 GT_{152}	15.6	X	332.50949	151.69993	150.93076	12.00346	0.2469165	0.21126940	2.7919758	21	5 29.9	18.7
156624 2002 GT_{156}	15.2	X	303.55544	55.60795	48.33678	9.26764	0.0745481	0.18227457	3.0807183	21	12 1.8	19.3
156625 2002 GU_{163}	15.5	X	339.75792	106.39182	151.56365	4.69535	0.0584871	0.20954622	2.8072613	21	5 2.2	19.1
156626 2002 GV_{167}	15.3	X	6.94137	173.43464	359.30240	15.03526	0.0778581	0.20309457	2.8664025	21	2 21.7	19.0
156627 2002 GG_{174}	15.2	X	31.51154	147.22199	84.91684	6.35980	0.1074562	0.21532902	2.7567730	21	6 17.7	18.2
156628 2002 GD_{180}	15.8	X	205.06320	286.43857	33.87356	11.47355	0.0331998	0.19834673	2.9119642	21	2 9.7	20.2
156629 2002 HC	17.5	X	320.31618	61.09699	38.80200	25.06722	0.1354925	0.39188816	1.8493877	21	—	—
156630 2002 HM_{9}	15.3	X	257.21323	91.87157	193.19731	15.95356	0.1362733	0.19853950	2.9100789	21	2 8.7	20.1
156631 Margitan	14.5	X	104.70094	252.26778	68.04564	17.53572	0.2345508	0.17922179	3.1156035	21	—	—
156632 2002 JK_{11}	14.7	X	152.25845	254.83030	50.99792	11.79281	0.0562342	0.18649962	3.0340129	21	—	—
156633 2002 JP_{11}	14.7	X	264.04983	37.16502	226.76614	11.53313	0.1131585	0.19544890	2.9406763	21	1 23.9	19.4
156634 2002 JW_{13}	16.5	X	48.27103	171.01133	213.45090	25.13455	0.0660720	0.38928416	1.8576258	21	—	—
156635 2002 JJ_{20}	14.7	X	100.77476	239.22186	74.92318	17.60906	0.2680788	0.17747521	3.1360111	21	—	—
156636 2002 JX_{21}	15.1	X	166.46047	205.72696	81.64654	7.90615	0.2591337	0.18278043	3.0750317	21	—	—
156637 2002 JR_{22}	14.7	X	169.84269	279.62168	45.54939	11.00698	0.1149891	0.19183746	2.9774680	21	1 11.1	19.4
156638 2002 JQ_{25}	14.8	X	145.56404	199.97022	75.07683	10.81888	0.0842609	0.18097537	3.0954448	21	12 23.9	19.5
156639 2002 JV_{25}	15.5	X	165.79056	59.63852	207.46288	15.29038	0.2186520	0.18136607	3.0909977	21	12 29.3	21.1
156640 2002 JU_{28}	15.6	X	251.42495	67.03479	206.82844	4.81649	0.1238254	0.19521332	2.9430417	21	1 24.6	20.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
156641 2002 JN_{29}	14.9	X	160.94573	43.50611	206.14656	9.45190	0.0494937	0.18014829	3.1049120	21	12 10.7	19.6
156642 2002 JH_{31}	14.7	X	138.00391	56.33842	222.27636	15.56759	0.2294805	0.17811672	3.1284766	21	12 21.9	20.3
156643 2002 JK_{32}	14.6	X	30.63750	295.24176	62.09032	12.85232	0.1039914	0.17512606	3.1639932	21	11 26.0	18.7
156644 2002 JJ_{33}	14.8	X	132.24313	94.82006	199.85937	5.97936	0.1330797	0.18002833	3.1062911	21	—	—
156645 2002 JS_{33}	14.8	X	153.31801	184.40800	65.94343	12.51837	0.0741523	0.17843721	3.1247296	21	12 2.5	19.4
156646 2002 JH_{35}	14.7	X	102.51127	86.49339	222.67425	12.06117	0.1043363	0.17735208	3.1374624	21	12 21.1	19.7
156647 2002 JJ_{47}	15.4	X	234.43177	259.34460	23.38096	5.30747	0.1047211	0.19445310	2.9507073	21	1 22.6	20.0
156648 2002 JC_{53}	15.4	X	258.60077	202.01831	26.76180	10.48622	0.0425333	0.19161360	2.9797866	21	—	—
156649 2002 JM_{54}	14.8	X	296.97621	278.05561	257.42247	9.31250	0.0711680	0.18960584	3.0007852	21	—	—
156650 2002 JQ_{54}	14.7	X	126.45031	24.17502	227.04374	17.32380	0.1184606	0.17549035	3.1596130	21	11 8.6	19.7
156651 2002 JZ_{54}	14.8	X	238.67569	295.61350	234.53282	15.42228	0.1686460	0.18221899	3.0813448	21	11 17.6	19.3
156652 2002 JO_{55}	15.0	X	224.18323	137.62754	47.35563	22.33569	0.2073645	0.18198884	3.0839421	21	11 14.9	19.8
156653 2002 JB_{56}	15.3	X	208.45427	187.11031	60.85579	3.48756	0.0695123	0.18544330	3.0455234	21	—	—
156654 2002 JE_{59}	15.6	X	228.86409	15.14165	243.22593	4.15759	0.2568969	0.18829551	3.0146906	21	—	—
156655 2002 JS_{65}	16.9	X	168.87278	340.67173	232.33945	21.15253	0.0347940	0.38077097	1.8852119	21	12 10.8	18.9
156656 2002 JL_{69}	15.3	X	69.56903	121.73332	60.88480	12.82973	0.0942052	0.21339582	2.7733974	21	6 6.2	18.8
156657 2002 JD_{70}	14.8	X	318.40476	141.10785	84.29208	13.42354	0.1105692	0.20050222	2.8910565	21	2 15.8	18.9
156658 2002 JM_{71}	14.7	X	296.09276	61.92546	125.52160	8.46591	0.1220703	0.19255786	2.9700372	21	—	—
156659 2002 JO_{76}	15.9	X	357.54971	154.60876	10.97472	5.36219	0.1430109	0.20101763	2.8861126	21	1 19.9	19.3
156660 2002 JH_{79}	15.8	X	292.46440	284.13019	211.14605	7.42236	0.1661421	0.18844813	3.0130627	21	12 17.6	19.4
156661 2002 JK_{80}	15.7	X	277.48400	135.21339	34.97649	10.32740	0.0296969	0.18822003	3.0154965	21	—	—
156662 2002 JB_{92}	15.5	X	194.00454	58.39082	269.19442	0.86164	0.0853134	0.19421230	2.9531458	21	2 3.2	20.1
156663 2002 JQ_{94}	15.6	X	251.65896	340.58208	236.65143	11.88427	0.1187333	0.18830546	3.0145843	21	—	—
156664 2002 JQ_{98}	16.0	X	280.17221	6.98212	187.52555	0.26514	0.1843101	0.19225760	2.9731287	21	—	—
156665 2002 JM_{101}	15.6	X	172.05111	116.12319	169.81063	1.13945	0.2547546	0.18417481	3.0594913	21	—	—
156666 2002 JB_{102}	14.9	X	152.95623	204.10153	67.17679	14.72670	0.0897745	0.17975918	3.1093909	21	12 26.2	19.8
156667 2002 JV_{102}	14.6	X	165.93563	147.36049	70.84688	19.36818	0.0999181	0.17551122	3.1593625	21	11 11.4	19.7
156668 2002 JT_{103}	15.3	X	188.43074	210.44278	74.11791	5.76549	0.0609961	0.18745063	3.0237424	21	—	—
156669 2002 JY_{108}	17.4	X	79.74241	114.08834	184.38890	23.35050	0.1316141	0.37917640	1.8904935	21	12 22.0	20.4
156670 2002 JK_{111}	14.9	X	167.24298	200.37910	35.83299	11.01733	0.1703602	0.17812689	3.1283576	21	11 26.4	20.1
156671 2002 JY_{114}	14.5	X	157.93306	178.99906	98.79911	18.78540	0.1749984	0.18015201	3.1048692	21	—	—
156672 2002 JF_{115}	15.1	X	155.79759	129.90388	139.13890	11.18202	0.2345836	0.17884142	3.1200195	21	12 25.6	20.6
156673 2002 JO_{115}	14.9	X	178.45906	53.66515	205.64601	8.63635	0.1031315	0.18396757	3.0617886	21	—	—
156674 2002 JG_{116}	14.7	X	98.15240	79.52718	192.11485	22.40246	0.1168355	0.17048008	3.2212193	21	11 5.8	19.7
156675 2002 JL_{121}	14.8	X	15.69746	203.10541	145.75337	15.29715	0.0371647	0.17408836	3.1765539	21	10 24.1	19.4
156676 2002 JL_{123}	15.3	X	234.38231	91.95672	96.26089	11.76453	0.0261990	0.18366833	3.0651133	21	12 23.1	19.5
156677 2002 JP_{127}	14.1	X	63.50292	302.15919	65.38648	16.43889	0.2807807	0.18048693	3.1010270	21	—	—
156678 2002 JO_{128}	15.4	X	194.67459	104.36206	151.79913	6.62105	0.1425639	0.18509861	3.0493032	21	—	—
156679 2002 JF_{130}	15.4	X	89.84805	114.93314	159.20752	5.69475	0.1701549	0.17206866	3.2013626	21	11 5.9	20.3
156680 2002 JO_{140}	15.6	X	216.44781	45.70878	290.61714	0.85595	0.0735193	0.19922117	2.9034369	21	3 7.6	19.8
156681 2002 JR_{141}	15.4	X	41.17407	138.62758	225.17817	7.95199	0.0101508	0.18068888	3.0987160	21	12 6.4	19.7
156682 2002 JT_{141}	15.9	X	217.27800	186.35840	29.99121	0.37926	0.1084678	0.18488079	3.0516978	21	12 26.8	20.4
156683 2002 JH_{142}	14.9	X	30.86350	343.54311	39.48429	11.14363	0.0910583	0.18141137	3.0904832	21	12 27.1	19.2
156684 2002 JG_{144}	16.7	X	315.44829	341.06448	68.07160	23.19035	0.1002375	0.38176386	1.8819417	21	11 24.8	17.5
156685 2002 KD_{1}	14.5	X	106.38117	124.42130	179.23334	25.53748	0.2420323	0.17436015	3.1732520	21	12 27.4	20.3
156686 2002 KW_{3}	16.8	X	29.03650	226.26900	121.37020	24.88797	0.0586515	0.38020418	1.8870850	21	12 22.6	18.9
156687 2002 KX_{10}	14.5	X	28.17847	325.87375	62.11180	23.44556	0.0676738	0.17899807	3.1181989	21	12 23.8	18.9
156688 2002 KD_{13}	15.8	X	202.68471	72.19683	146.34807	2.90321	0.1861724	0.18190663	3.0848712	21	12 7.8	20.8
156689 2002 LQ	14.9	X	93.52714	125.63689	188.54871	25.94357	0.2427722	0.17527499	3.1622006	21	12 28.2	20.6
156690 2002 LK_{2}	15.1	X	207.66232	61.94013	188.90038	14.06551	0.0825042	0.18471535	3.0535197	21	—	—
156691 2002 LR_{5}	14.9	X	140.63197	84.70931	184.32097	21.76468	0.2759468	0.17370524	3.1812229	21	12 14.9	20.9
156692 2002 LV_{8}	15.2	X	80.31690	138.09205	160.57605	5.46786	0.1579439	0.17166648	3.2063607	21	11 23.2	20.0
156693 2002 LN_{11}	14.5	X	182.52977	330.31127	235.94648	15.81745	0.1589452	0.17605018	3.1529112	21	11 6.3	19.6
156694 2002 LF_{15}	15.4	X	203.64461	191.85951	48.03270	4.34046	0.1672425	0.18291383	3.0735364	21	—	—
156695 2002 LW_{15}	14.7	X	176.52470	326.02993	266.94056	15.76084	0.1799186	0.17843566	3.1247477	21	12 1.7	20.0
156696 2002 LD_{16}	15.3	X	191.58021	338.93482	261.26562	8.38664	0.1163690	0.18131477	3.0915807	21	12 26.9	20.1
156697 2002 LU_{19}	16.5	X	145.33487	7.16266	337.50999	2.90672	0.2652157	0.28584170	2.2823679	21	1 8.2	19.6
156698 2002 LR_{21}	14.8	X	141.45908	96.81234	188.62722	7.50580	0.2023988	0.17796681	3.1302333	21	—	—
156699 2002 LY_{34}	14.8	X	86.45702	137.67495	177.59345	11.30047	0.0716620	0.17570942	3.1569862	21	12 9.7	19.6
156700 2002 LQ_{39}	14.8	X	152.98207	128.02883	199.40452	9.73405	0.0836127	0.18612478	3.0380850	21	—	—
156701 2002 LH_{45}	15.3	X	164.95779	241.73522	58.07393	6.37886	0.1335646	0.18444063	3.0565511	21	—	—
156702 2002 LZ_{46}	17.0	X	63.43870	191.19266	97.26149	24.05963	0.0395385	0.37536869	1.9032566	21	11 16.3	19.5
156703 2002 LF_{47}	14.6	X	127.99568	164.25730	167.96233	22.68952	0.2501602	0.18292683	3.0733907	21	—	—
156704 2002 LQ_{49}	15.1	X	48.26228	191.73732	149.53628	5.47179	0.1538477	0.17209843	3.2009933	21	12 6.7	19.6
156705 2002 LN_{52}	14.7	X	235.40547	69.21094	96.63768	12.20337	0.0682397	0.17862774	3.1225071	21	11 23.5	19.2
156706 2002 LE_{56}	14.7	X	162.53834	112.54560	181.70543	16.69737	0.2898841	0.17978220	3.1091255	21	—	—
156707 2002 LW_{59}	15.1	X	201.77649	11.05802	210.09923	11.29146	0.1565654	0.18111975	3.0937996	21	12 11.9	20.2
156708 2002 LD_{61}	15.4	X	85.73096	138.98386	139.29457	7.91602	0.0719313	0.17132555	3.2106129	21	10 27.4	20.1
156709 2002 NZ_{3}	15.2	X	126.06898	157.16662	159.45864	13.79117	0.1708321	0.17847231	3.1243198	21	—	—
156710 2002 NA_{41}	17.1	X	106.40223	62.32885	143.43719	24.64467	0.0793215	0.36671994	1.9330646	21	9 6.2	19.3
156711 2002 NB_{46}	15.2	X	111.99524	190.07442	127.45305	8.08068	0.1000338	0.17426549	3.1744010	21	—	—
156712 2002 NR_{47}	15.3	X	127.75286	25.39421	249.63751	3.66273	0.1404912	0.17171601	3.2057441	21	12 7.7	20.4
156713 2002 OW_{11}	14.5	X	143.55845	96.78589	230.62326	12.75672	0.2747908	0.17738450	3.1370801	21	1 2.6	19.8
156714 2002 PF_{1}	16.9	X	182.22796	212.02003	212.69028	20.67851	0.0852211	0.35175350	1.9875151	21	5 11.9	19.3
156715 2002 PP_{137}	17.1	X	196.59437	64.82279	327.31696	4.30671	0.1840478	0.29635354	2.2280724	21	4 15.6	20.8
156716 2002 RK_{27}	17.3	X	17.08982	131.93663	128.19120	3.72023	0.1526248	0.35807368	1.9640586	21	7 5.9	17.8
156717 2002 RT_{42}	14.9	X	157.54905	219.17259	124.23096	3.99859	0.2561537	0.12744232	3.9107520	21	2 6.6	21.2
156718 2002 TZ_{6}	17.1	X	223.56954	268.20962	147.97364	4.88380	0.2147733	0.29861115	2.2168282	21	6 12.4	20.6
156719 2002 TR_{49}	17.2	X	194.07390	230.60631	197.90230	8.11385	0.2289368	0.29486412	2.2355691	21	6 2.7	21.0
156720 2002 TY_{66}	16.3	X	53.93633	270.23114	202.41679	21.06590	0.3550888	0.27879667	2.3206572	21	2 2.5	17.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
156721 2002 TG_{93}	17.0	X	218.36764	162.27269	207.70958	21.15058	0.0933027	0.34803874	2.0016324	21	4 4.1	19.7
156722 2002 TR_{203}	17.0	X	18.71677	317.56624	131.19869	5.36524	0.1776420	0.27347702	2.3506546	21	—	—
156723 2002 TQ_{238}	17.6	X	292.79540	8.41795	18.58576	3.65268	0.1806996	0.30486116	2.1864253	21	8 2.1	19.7
156724 2002 TB_{257}	17.2	X	74.04048	241.15669	196.03554	1.25340	0.1862515	0.27884473	2.3203905	21	1 15.7	19.1
156725 2002 TH_{294}	16.5	X	165.25395	222.10333	260.90976	7.91104	0.1553112	0.29850053	2.2173758	21	7 16.1	19.8
156726 2002 UW_{35}	17.8	X	290.45862	180.59613	236.48609	0.60561	0.1171165	0.30806966	2.1712180	21	9 25.5	19.6
156727 2002 VR_{11}	17.5	X	254.49831	16.00710	33.61206	4.96550	0.1399750	0.30109812	2.2046045	21	7 15.8	20.2
156728 2002 VC_{47}	17.0	X	131.57927	308.03837	201.02167	6.93546	0.1235153	0.29595764	2.2300590	21	7 13.8	20.2
156729 2002 VN_{118}	17.0	X	197.64362	68.91535	12.70179	6.97831	0.1541267	0.29630975	2.2282919	21	6 23.9	20.5
156730 2002 VM_{140}	13.1	X	310.66176	162.56672	135.12936	2.73136	0.0925783	0.08215268	5.2406869	21	5 16.8	19.7
156731 2002 XF_{9}	17.2	X	222.21872	48.78923	75.81588	3.72299	0.0844025	0.30539791	2.1838627	21	9 29.3	19.8
156732 2002 XU_{19}	16.8	X	249.42161	188.10809	296.33130	2.45824	0.0427126	0.31061888	2.1593224	21	11 11.1	19.3
156733 2002 XO_{29}	16.6	X	130.34730	342.19765	115.84375	6.73285	0.0761195	0.28740505	2.2740837	21	4 29.9	19.5
156734 2002 XN_{32}	16.3	X	212.20314	351.44722	14.72500	5.59814	0.1760258	0.28863889	2.2675985	21	3 30.3	19.7
156735 2002 XE_{40}	16.5	X	75.54463	300.94140	170.28395	5.78363	0.1434678	0.27868087	2.3213000	21	3 6.1	18.8
156736 2002 XW_{45}	16.2	X	170.79291	138.72723	85.78124	5.96693	0.0343675	0.31187620	2.1535149	21	12 15.9	18.6
156737 2002 XD_{54}	16.5	X	299.73399	165.99227	231.37436	7.21502	0.0310635	0.30457127	2.1878125	21	9 18.6	19.0
156738 2002 XS_{57}	16.9	X	27.53186	201.16173	294.60182	1.35413	0.1724019	0.27255514	2.3559521	21	1 5.5	18.9
156739 2002 XA_{59}	15.6	X	150.90777	116.77596	295.73929	10.69709	0.1965038	0.23067868	2.6330822	21	4 1.7	20.1
156740 2002 XG_{64}	16.4	X	153.41302	79.07392	130.10398	5.39607	0.0733045	0.30616014	2.1802365	21	11 2.4	19.3
156741 2002 XQ_{64}	16.8	X	315.59119	167.86172	244.93394	4.63607	0.0935271	0.30808265	2.1711570	21	11 8.2	18.6
156742 2002 XJ_{71}	16.3	X	214.06805	185.76709	258.82137	4.57417	0.1040868	0.29626874	2.2284976	21	7 17.9	19.3
156743 2002 XM_{75}	16.8	X	356.39159	103.18615	356.18674	1.95536	0.1643311	0.26663341	2.3907069	21	—	—
156744 2002 XP_{80}	16.2	X	21.07600	119.32465	52.27742	5.83001	0.2108569	0.27610330	2.3357247	21	2 15.4	17.9
156745 2002 XH_{81}	16.1	X	105.77999	350.61112	76.70121	9.24993	0.2505852	0.27816423	2.3241734	21	3 15.8	19.0
156746 2002 XM_{81}	16.4	X	74.21744	162.45233	314.45012	5.54201	0.1215766	0.27947875	2.3168799	21	3 7.0	18.6
156747 2002 XH_{84}	17.3	X	64.89194	291.97257	168.94415	7.23131	0.2047765	0.27724027	2.3293344	21	2 3.5	19.1
156748 2002 XQ_{86}	16.7	X	285.24249	23.08993	42.79707	5.15438	0.0804410	0.30452636	2.1880275	21	10 7.3	18.8
156749 2002 XS_{86}	17.1	X	201.73475	9.13101	43.22709	5.13501	0.1972143	0.29180059	2.2511889	21	5 18.4	20.6
156750 2002 XW_{90}	16.3	X	96.72060	330.29222	98.18090	8.03610	0.1719600	0.27587984	2.3369858	21	2 16.1	18.8
156751 Chelseaferrell	17.1	X	167.13744	7.69977	83.85044	7.87413	0.0691581	0.29030862	2.2588953	21	6 3.2	20.1
156752 2002 XL_{96}	17.0	X	19.57459	217.83294	216.88408	1.05311	0.1604161	0.26872730	2.3782720	21	—	—
156753 2002 YW	16.2	X	223.69570	287.95931	111.30294	4.87267	0.1325742	0.29113900	2.2545981	21	5 26.4	19.4
156754 2002 YR_{1}	16.3	X	186.70483	352.67042	73.36305	4.82756	0.1538541	0.28900550	2.2656804	21	5 23.3	19.7
156755 2002 YH_{7}	16.0	X	228.97353	282.71625	147.60607	4.41763	0.1901208	0.24273741	2.5451394	21	7 7.7	19.9
156756 2002 YL_{7}	16.9	X	125.58381	170.75893	271.21343	2.54837	0.1672058	0.28479492	2.2879572	21	4 9.8	19.9
156757 2002 YA_{8}	17.1	X	90.60410	217.68942	217.11956	4.46039	0.2051512	0.27617403	2.3353259	21	2 15.7	19.4
156758 2002 YS_{21}	16.6	X	2.61979	98.46066	275.80877	2.34285	0.1008851	0.31016152	2.1614446	21	12 6.6	18.6
156759 2002 YU_{28}	16.3	X	75.48012	139.84858	305.37565	2.42834	0.1149185	0.27478696	2.3431781	21	1 23.9	18.6
156760 2002 YV_{28}	16.8	X	351.09809	203.95204	322.14660	1.77649	0.1702681	0.27117628	2.3639316	21	—	—
156761 2002 YA_{31}	17.0	X	121.02026	306.31402	162.41958	1.64503	0.2236936	0.28462469	2.2888693	21	5 20.0	20.2
156762 2002 YR_{34}	16.4	X	356.63702	226.24343	317.59714	6.40831	0.0512026	0.27440697	2.3453408	21	2 3.6	19.1
156763 2003 AF_{6}	16.5	X	161.65978	309.93387	130.00079	7.66600	0.1304961	0.28602022	2.2814181	21	5 17.6	19.9
156764 2003 AN_{13}	16.3	X	186.06196	208.90886	223.01321	7.04224	0.0503484	0.28850733	2.2682878	21	5 29.7	19.2
156765 2003 AZ_{28}	16.6	X	12.98677	357.85163	154.20173	2.73573	0.1257410	0.27256172	2.3559142	21	1 6.7	18.8
156766 2003 AE_{31}	16.2	X	64.88861	258.83666	206.98825	1.55536	0.1752031	0.27275982	2.3547734	21	2 10.2	18.1
156767 2003 AH_{32}	16.6	X	215.37359	224.19819	341.75133	1.68824	0.1478097	0.25776005	2.4452634	21	12 21.0	20.1
156768 2003 AW_{34}	16.9	X	218.91659	224.01455	216.02482	5.37069	0.1203657	0.29714589	2.2241098	21	7 15.4	20.0
156769 2003 AJ_{39}	16.9	X	1.84431	257.43767	234.34415	2.74799	0.0638450	0.26948038	2.3738391	21	—	—
156770 2003 AN_{43}	16.4	X	45.08999	206.25149	332.85222	4.75117	0.0916192	0.28330701	2.2959610	21	4 13.6	18.7
156771 2003 AP_{47}	16.4	X	354.21676	337.89926	4.39200	4.06926	0.0600347	0.30139400	2.2031614	21	9 27.7	18.4
156772 2003 AX_{54}	16.9	X	129.79416	11.51974	56.75180	4.57287	0.1921427	0.28110657	2.3079269	21	4 3.1	20.1
156773 2003 AY_{54}	17.1	X	35.45840	114.73573	356.51243	4.46156	0.1392294	0.27139340	2.3626707	21	—	—
156774 2003 AL_{59}	15.9	X	31.94086	34.10892	115.62147	7.35431	0.1137725	0.27321776	2.3521414	21	2 9.5	18.0
156775 2003 AU_{60}	16.4	X	164.31089	227.47267	205.80162	5.03644	0.1308087	0.28758706	2.2731242	21	5 9.4	19.6
156776 2003 AO_{65}	16.3	X	162.08623	22.21171	27.03045	9.18659	0.1317340	0.28343085	2.2952922	21	4 5.8	19.6
156777 2003 AM_{69}	16.6	X	36.90145	290.44526	227.79129	4.80263	0.0772376	0.27802470	2.3249509	21	2 26.6	19.0
156778 2003 AB_{73}	16.7	X	116.27915	81.13619	25.54432	7.30693	0.1427146	0.28145026	2.3060477	21	4 29.6	19.6
156779 2003 AA_{76}	16.9	X	310.68067	146.87707	355.34043	9.42694	0.1486272	0.26286895	2.4134772	21	—	—
156780 2003 AV_{78}	17.0	X	101.00551	162.21113	216.40151	2.15102	0.1791027	0.26908660	2.3761545	21	—	—
156781 2003 AE_{84}	16.2	X	111.42391	310.01077	168.42542	9.15058	0.1992511	0.28258181	2.2998875	21	5 21.2	19.4
156782 2003 AR_{87}	17.1	X	35.19944	264.15443	182.77039	4.96357	0.1838837	0.26971886	2.3724396	21	—	—
156783 2003 AB_{90}	16.4	X	258.47894	13.96135	39.19286	6.57934	0.2270741	0.29925840	2.2136306	21	7 13.7	19.5
156784 2003 AJ_{94}	16.1	X	279.46398	144.13416	83.02882	10.54485	0.2172526	0.26372172	2.4082715	21	—	—
156785 2003 BH_{3}	16.9	X	331.83279	42.29037	173.20724	4.91838	0.1381972	0.27324946	2.3519595	21	1 27.6	19.6
156786 2003 BW_{7}	16.5	X	161.92518	298.48867	132.65228	6.48045	0.0839775	0.28395990	2.2924403	21	5 2.9	19.7
156787 2003 BY_{8}	16.4	X	43.97166	221.60216	154.89137	11.44625	0.2586803	0.26155656	2.4215437	21	—	—
156788 2003 BG_{11}	16.5	X	57.30387	83.92864	10.11904	3.21920	0.0967895	0.27070944	2.3666486	21	1 4.9	18.9
156789 2003 BC_{12}	16.4	X	53.15584	332.90238	124.80260	5.84358	0.1281461	0.27059525	2.3673144	21	1 2.7	18.6
156790 2003 BY_{12}	16.3	X	147.03490	36.58485	129.03008	5.59397	0.2308798	0.23762313	2.5815284	21	8 26.5	20.6
156791 2003 BP_{14}	16.9	X	295.94055	2.18940	192.48701	2.62123	0.1393276	0.26587046	2.3952783	21	—	—
156792 2003 BV_{14}	16.4	X	15.01495	358.58692	82.88309	3.09830	0.1633020	0.26352785	2.4094525	21	—	—
156793 2003 BY_{14}	16.7	X	306.56602	124.08700	85.90981	3.18577	0.1610586	0.26746371	2.3857566	21	—	—
156794 2003 BV_{15}	15.9	X	106.59985	356.71950	53.13326	4.62684	0.2266314	0.27295074	2.3536752	21	2 14.6	18.6
156795 2003 BX_{15}	16.2	X	278.45241	97.87024	54.68426	6.86688	0.0828783	0.25604210	2.4561891	21	—	—
156796 2003 BZ_{15}	16.9	X	68.17427	325.78445	142.95376	3.01301	0.1878551	0.27449880	2.3448177	21	2 24.0	18.9
156797 2003 BA_{16}	17.1	X	322.36690	132.56566	12.18050	2.22450	0.1792167	0.26252638	2.4155762	21	—	—
156798 2003 BC_{16}	16.6	X	337.76331	189.04370	349.96105	2.91989	0.1243134	0.26854535	2.3793461	21	—	—
156799 2003 BD_{18}	16.8	X	67.59509	285.05538	149.03558	0.81069	0.1654219	0.27072355	2.3665664	21	—	—
156800 2003 BR_{18}	16.8	X	55.52512	38.84345	30.15841	0.87521	0.1966214	0.26855677	2.3792787	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
156801 2003 BW_{20}	16.4	X	342.30053	72.44482	60.70417	3.16006	0.1568711	0.26339433	2.4102667	21	—	—
156802 2003 BL_{25}	16.8	X	343.10366	258.93043	222.46430	5.33006	0.1498587	0.26262067	2.4149980	21	—	—
156803 2003 BY_{26}	16.7	X	44.27923	256.81662	201.62141	1.73059	0.1890891	0.26955941	2.3733751	21	—	—
156804 2003 BB_{36}	16.5	X	8.32097	140.23092	130.94759	6.27657	0.1400752	0.28791133	2.2714170	21	7 3.7	18.3
156805 2003 BJ_{40}	16.4	X	358.04516	92.55628	120.56855	12.09940	0.0447701	0.27923550	2.3182252	21	3 24.5	19.2
156806 2003 BR_{43}	16.4	X	322.05988	30.59495	118.49378	7.72740	0.0529380	0.26291595	2.4131895	21	—	—
156807 2003 BG_{44}	16.4	X	10.08344	18.84614	134.86578	5.23409	0.0811168	0.27152945	2.3618814	21	1 9.9	18.9
156808 2003 BK_{44}	16.7	X	129.41209	334.50363	113.57879	5.34898	0.1042760	0.28136605	2.3065078	21	4 18.8	19.7
156809 2003 BG_{46}	16.4	X	132.82217	260.84917	130.13733	7.80885	0.2386650	0.27551037	2.3390747	21	2 22.4	19.6
156810 2003 BP_{49}	16.9	X	359.24076	83.82797	81.27329	3.24563	0.1252262	0.27162073	2.3613522	21	1 2.9	19.4
156811 2003 BS_{50}	17.2	X	84.01979	259.43695	206.17225	1.56603	0.1538183	0.27736206	2.3286525	21	3 14.4	19.6
156812 2003 BM_{51}	16.6	X	78.01703	26.09295	20.92805	2.59600	0.1432503	0.26847548	2.3797589	21	—	—
156813 2003 BY_{51}	16.6	X	9.38197	64.21880	158.45189	6.11309	0.1409779	0.27989047	2.3146072	21	4 17.5	18.5
156814 2003 BC_{52}	15.5	X	23.38799	307.14370	330.61244	10.12989	0.1452164	0.23562852	2.5960765	21	8 15.0	18.0
156815 2003 BJ_{52}	16.7	X	3.99007	237.32133	277.26868	1.81238	0.1089216	0.27038105	2.3685645	21	—	—
156816 2003 BQ_{52}	16.7	X	78.73254	186.28629	271.82640	2.04833	0.1307347	0.27455698	2.3444864	21	2 18.7	19.0
156817 2003 BV_{54}	16.8	X	57.93763	293.03325	149.59993	6.02350	0.1399156	0.27009328	2.3702466	21	—	—
156818 2003 BZ_{54}	16.2	X	303.78960	92.46478	124.62028	3.08913	0.1702747	0.26822037	2.3812676	21	—	—
156819 2003 BR_{56}	17.0	X	291.69629	291.87977	262.46345	0.77158	0.1270380	0.26379034	2.4078538	21	—	—
156820 2003 BK_{57}	17.6	X	108.37639	262.71112	171.80486	2.13472	0.1932071	0.27849885	2.3223114	21	3 14.5	20.4
156821 2003 BM_{57}	16.8	X	57.07786	198.17209	251.71153	1.11074	0.0908033	0.27101957	2.3648428	21	—	—
156822 2003 BT_{60}	17.2	X	80.17574	244.02375	177.77369	2.25978	0.1817064	0.27133914	2.3629857	21	1 6.9	19.1
156823 2003 BV_{60}	17.0	X	28.64818	217.63116	233.77155	1.10597	0.1092506	0.26653558	2.3912919	21	—	—
156824 2003 BX_{61}	16.2	X	314.42015	216.16704	315.37936	4.24190	0.1613368	0.26308168	2.4121759	21	—	—
156825 2003 BB_{65}	16.6	X	187.59716	311.40664	105.73829	3.58569	0.0780696	0.28624698	2.2802131	21	5 12.1	19.7
156826 2003 BE_{65}	17.2	X	11.66463	181.91878	315.78883	0.71996	0.1228726	0.26996212	2.3710143	21	—	—
156827 2003 BH_{66}	16.4	X	35.39409	354.31201	114.66551	2.28973	0.1655469	0.26943376	2.3741129	21	—	—
156828 2003 BQ_{71}	16.8	X	29.17831	323.94455	161.59704	7.01583	0.1809783	0.27083082	2.3659415	21	—	—
156829 2003 BO_{72}	15.4	X	121.81160	318.77133	155.05502	32.69041	0.1926336	0.22755074	2.6571570	21	6 2.0	20.2
156830 2003 BA_{80}	17.5	X	31.95770	301.37203	157.90026	0.99049	0.1233988	0.26898295	2.3767648	21	—	—
156831 2003 BX_{80}	16.2	X	11.00331	94.07938	140.39538	11.10685	0.1274919	0.28043333	2.3116192	21	5 13.4	18.5
156832 2003 BS_{84}	16.6	X	230.94582	323.40126	73.29418	5.56351	0.1452169	0.28894607	2.2659910	21	5 29.1	19.7
156833 2003 BT_{86}	17.0	X	97.20998	61.85907	26.84879	3.74402	0.1286062	0.27630973	2.3345612	21	3 9.3	19.5
156834 2003 BC_{88}	17.0	X	271.75270	357.12316	180.24770	1.04202	0.1319909	0.25943327	2.4347382	21	—	—
156835 2003 BF_{92}	17.0	X	275.37235	116.88206	357.38875	9.57351	0.1485880	0.25176013	2.4839608	21	11 5.3	19.9
156836 2003 CS	16.3	X	311.03715	227.69905	337.17427	8.57329	0.2440907	0.26881206	2.3777720	21	—	—
156837 2003 CV_{1}	16.1	X	35.65744	238.04257	98.24094	7.04250	0.1822314	0.30666722	2.1778325	21	12 14.9	18.5
156838 2003 CW_{1}	17.3	X	42.25265	46.43394	91.97766	3.22016	0.1475422	0.27570298	2.3379851	21	2 11.8	19.2
156839 2003 CD_{3}	17.0	X	54.54697	341.97857	186.19578	2.87911	0.1060234	0.27979020	2.3151602	21	4 19.2	19.1
156840 2003 CC_{5}	16.2	X	317.68395	137.66151	22.83548	4.67947	0.0674282	0.26645597	2.3917682	21	—	—
156841 2003 CZ_{6}	16.7	X	42.31058	101.94814	22.82283	4.20100	0.1379610	0.27189154	2.3597840	21	1 23.3	18.8
156842 2003 CA_{7}	16.9	X	5.22213	79.43342	51.39778	4.12703	0.1255414	0.26686967	2.3892957	21	—	—
156843 2003 CN_{7}	15.5	X	109.54048	347.50946	137.93736	14.78962	0.0413903	0.22696972	2.6616898	21	5 12.3	19.4
156844 2003 CS_{7}	16.4	X	316.94963	62.99901	122.76504	5.49805	0.1333583	0.26382951	2.4076155	21	—	—
156845 2003 CR_{8}	16.6	X	320.58692	254.66132	253.91554	0.33898	0.1224311	0.26224861	2.4172817	21	—	—
156846 2003 CU_{11}	17.5	X	60.03402	83.11639	20.84406	2.83473	0.1745867	0.27371931	2.3492672	21	1 29.2	19.2
156847 2003 CA_{13}	15.7	X	347.88990	75.10396	63.41092	7.88425	0.2382385	0.26447821	2.4036770	21	—	—
156848 2003 CJ_{13}	17.4	X	308.07088	216.80257	324.30577	0.69882	0.1233157	0.26494082	2.4008782	21	—	—
156849 2003 CB_{14}	17.2	X	310.34379	15.26971	190.08832	0.72828	0.1027987	0.26870352	2.3784123	21	—	—
156850 2003 CM_{15}	17.4	X	102.53430	80.66621	34.25312	3.98838	0.1311296	0.28041122	2.3117407	21	4 22.0	20.1
156851 2003 CY_{15}	17.2	X	319.11175	60.92144	98.67610	1.74769	0.1534815	0.26326026	2.4110850	21	—	—
156852 2003 CQ_{16}	16.4	X	57.97993	31.16084	44.47570	4.19305	0.1894798	0.26818239	2.3814925	21	—	—
156853 2003 CD_{17}	16.9	X	311.76872	237.91888	145.46604	3.14866	0.1700607	0.29947485	2.2125639	21	9 4.9	18.3
156854 2003 CF_{18}	16.7	X	105.24651	235.27246	198.47413	2.41238	0.1298736	0.27564709	2.3383011	21	2 26.2	19.2
156855 2003 CN_{19}	17.0	X	351.59461	281.92131	203.06861	1.96746	0.1266464	0.26465929	2.4025805	21	—	—
156856 2003 CZ_{19}	16.8	X	52.63456	282.70148	172.25173	3.79024	0.1402095	0.26998469	2.3708821	21	—	—
156857 2003 CR_{21}	16.5	X	245.81498	153.27764	148.65136	6.71903	0.2471254	0.26917805	2.3756162	21	2 6.8	20.4
156858 2003 DN_{3}	15.7	X	341.06222	345.43602	337.40715	12.61726	0.1749410	0.23572971	2.5953334	21	7 29.6	18.2
156859 2003 DS_{5}	17.0	X	10.36429	105.95695	341.96416	4.47082	0.1559560	0.26376918	2.4079826	21	—	—
156860 2003 DG_{8}	16.8	X	166.10271	96.80689	167.15900	2.25015	0.0923379	0.25381070	2.4705639	21	—	—
156861 2003 DO_{8}	17.2	X	4.71860	76.72233	86.05975	2.25895	0.1292304	0.26968830	2.3726189	21	1 8.8	19.5
156862 2003 DF_{9}	17.0	X	313.96689	129.73605	61.61943	5.55067	0.1292358	0.26625263	2.3929858	21	—	—
156863 2003 DN_{11}	17.3	X	68.48953	95.07642	3.81025	1.19579	0.1468492	0.27273314	2.3549269	21	2 4.8	19.5
156864 2003 DX_{12}	16.8	X	273.60014	10.50036	180.69390	0.78254	0.1375219	0.25825204	2.4421568	21	—	—
156865 2003 DQ_{13}	15.9	X	296.78891	204.19134	36.37549	11.25769	0.2133177	0.26656160	2.3911363	21	1 12.1	19.7
156866 2003 DB_{15}	16.3	X	49.67882	45.32578	37.19276	3.25115	0.1695735	0.26674771	2.3900239	21	—	—
156867 2003 DD_{16}	16.9	X	110.89377	59.29097	25.65162	2.60417	0.1770567	0.27697904	2.3307988	21	3 30.4	19.6
156868 2003 DK_{16}	16.6	X	330.12686	36.46159	175.91194	6.04191	0.0593254	0.27309021	2.3528738	21	2 2.0	19.5
156869 2003 DS_{17}	16.4	X	324.63496	118.57895	51.07952	2.90159	0.1508250	0.26315919	2.4117022	21	—	—
156870 2003 DU_{18}	16.7	X	296.54633	93.08075	104.37486	3.27162	0.1142599	0.26490737	2.4010803	21	—	—
156871 2003 DF_{19}	16.9	X	342.52226	283.87932	240.50903	1.25992	0.1632044	0.26628836	2.3927717	21	—	—
156872 2003 DS_{19}	16.7	X	173.43736	354.25198	163.09320	6.21627	0.1768343	0.24072017	2.5593385	21	9 6.2	20.8
156873 2003 DF_{20}	16.6	X	308.89981	47.84938	146.47525	0.85649	0.1494956	0.26493264	2.4009276	21	—	—
156874 2003 DG_{20}	16.2	X	264.03646	314.81204	323.08318	5.54814	0.1028238	0.27051657	2.3677734	21	2 2.7	19.6
156875 2003 DT_{20}	16.5	X	329.36231	41.89058	134.18622	3.04834	0.1446865	0.26570619	2.3962655	21	—	—
156876 2003 DW_{20}	17.0	X	317.09128	158.79402	335.89538	0.64637	0.1402535	0.25938952	2.4350120	21	—	—
156877 2003 DZ_{21}	16.1	X	307.97516	340.94916	104.29855	9.65623	0.1803112	0.25154153	2.4853997	21	11 26.4	18.3
156878 2003 EF_{1}	15.3	X	65.83618	270.63092	171.09012	22.13801	0.2863594	0.26997430	2.3709429	21	1 17.6	17.3
156879 Eloïs	16.6	X	349.90315	165.54941	52.83642	3.01887	0.1295085	0.27510867	2.3413510	21	3 5.1	19.0
156880 Bernardtregon	16.8	X	96.01195	304.18396	127.63750	2.95449	0.0162292	0.26907869	2.3762010	21	1 26.4	19.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
156881 2003 EK_2	16.9	X	63.05840	317.92757	152.65826	5.13505	0.0868996	0.27235852	2.3570859	21	2 5.7	19.1
156882 2003 EH_3	16.9	X	353.39571	91.75458	43.19603	3.05677	0.1073225	0.26536480	2.3983202	21	—	—
156883 2003 EG_4	16.4	X	292.83927	224.29444	329.93472	8.96077	0.1599286	0.26151492	2.4218007	21	—	—
156884 2003 EE_9	16.1	X	248.69332	346.68395	185.28893	9.03738	0.1433598	0.25348229	2.4726974	21	12 18.9	19.3
156885 2003 EL_9	16.0	X	236.92137	321.51896	322.27470	5.15028	0.1018661	0.26657656	2.3910468	21	1 13.6	19.5
156886 2003 EW_{11}	16.3	X	266.26833	333.35704	273.78467	2.57725	0.1424168	0.26361140	2.4089434	21	—	—
156887 2003 EO_{13}	16.7	X	30.97262	134.50278	340.72029	5.73834	0.0780220	0.26831704	2.3806956	21	—	—
156888 2003 EN_{15}	16.3	X	263.36041	304.02364	302.40605	5.63553	0.0791188	0.26414816	2.4056789	21	—	—
156889 2003 EH_{20}	17.0	X	307.21098	242.88553	313.86004	0.60848	0.1276729	0.26419478	2.4053959	21	—	—
156890 2003 ES_{21}	16.6	X	336.63483	96.30521	64.83193	3.46863	0.1442519	0.26523140	2.3991243	21	—	—
156891 2003 EY_{21}	16.8	X	339.55716	36.34088	132.16993	4.89211	0.1424972	0.26627589	2.3928464	21	—	—
156892 2003 EK_{22}	16.3	X	301.48630	169.33077	23.29434	2.41745	0.1600643	0.26280944	2.4138414	21	—	—
156893 2003 EL_{22}	16.4	X	279.02795	94.20458	97.82925	3.35519	0.1602220	0.25942648	2.4347807	21	—	—
156894 2003 ED_{24}	16.8	X	100.79271	328.33052	131.50636	3.38368	0.0942673	0.27499894	2.3419738	21	3 25.0	19.5
156895 2003 EX_{24}	16.0	X	170.18002	144.51612	155.21037	16.26068	0.1094528	0.25904904	2.4371452	21	—	—
156896 2003 EN_{26}	16.2	X	104.89521	60.39807	18.72972	2.49287	0.1778078	0.27451745	2.3447115	21	3 14.8	18.9
156897 2003 EY_{26}	16.6	X	337.80736	215.29901	330.93860	1.18215	0.0621621	0.26838468	2.3802956	21	1 10.6	19.4
156898 2003 EX_{29}	17.8	X	319.75735	319.25831	206.19157	1.08121	0.1961005	0.26376552	2.4080049	21	—	—
156899 2003 EK_{30}	16.9	X	352.60637	303.80238	200.70543	1.77998	0.1440858	0.26587726	2.3952375	21	—	—
156900 2003 EN_{30}	17.2	X	318.09585	235.22893	243.94175	0.48729	0.1404547	0.25794269	2.4441090	21	—	—
156901 2003 EK_{31}	16.3	X	293.80976	176.35995	79.85907	6.18236	0.0589098	0.27217822	2.3581267	21	2 16.7	19.3
156902 2003 EQ_{31}	15.9	X	283.27378	58.19846	209.45664	5.79164	0.2520839	0.27042233	2.3683235	21	1 25.0	19.9
156903 2003 EC_{32}	15.9	X	240.72688	359.92657	300.44414	5.81437	0.1170582	0.26965042	2.3728411	21	2 4.8	19.5
156904 2003 EO_{32}	16.4	X	337.12820	41.46029	173.54931	5.98937	0.0451804	0.27209689	2.3585966	21	2 18.3	19.1
156905 2003 EA_{33}	16.9	X	334.35833	161.93054	13.51006	2.33644	0.1633749	0.26539766	2.3981223	21	—	—
156906 2003 ES_{38}	15.8	X	151.03278	309.45691	286.55566	10.37391	0.0818327	0.24680848	2.5170741	21	11 22.0	19.6
156907 2003 EO_{39}	16.2	X	285.80477	155.83134	73.45407	12.29942	0.1506221	0.26465447	2.4026097	21	—	—
156908 2003 EG_{41}	16.9	X	61.43370	275.16547	173.77608	4.41502	0.1783921	0.27004347	2.3705381	21	1 8.3	18.7
156909 2003 EP_{52}	16.3	X	320.77452	134.55928	53.97798	7.88827	0.1860261	0.26599315	2.3945417	21	—	—
156910 2003 FB_6	16.1	X	83.33091	269.71327	4.61785	12.60177	0.1691413	0.23791170	2.5794405	21	11 1.9	20.1
156911 2003 FD_{11}	16.4	X	328.21670	258.14879	95.33356	2.09813	0.1436066	0.23457702	2.6038287	21	8 18.6	18.9
156912 2003 FS_{25}	16.6	X	212.05427	272.49584	352.24044	0.77099	0.1615302	0.25787435	2.4445408	21	—	—
156913 2003 FN_{28}	16.1	X	153.03391	158.18484	55.02384	15.13680	0.1026503	0.24125400	2.5555617	21	10 30.3	20.0
156914 2003 FB_{31}	16.4	X	325.04927	90.75503	118.24456	8.50911	0.0635965	0.26943768	2.3740899	21	1 23.1	19.3
156915 2003 FK_{36}	16.6	X	180.00715	114.76990	8.15234	8.70923	0.0809760	0.23413787	2.6070835	21	8 3.8	20.6
156916 2003 FJ_{40}	16.5	X	16.81524	313.46007	346.00257	3.73101	0.0714158	0.23340648	2.6125270	21	8 26.5	19.4
156917 2003 FE_{44}	16.7	X	176.43426	142.09720	208.58749	2.52259	0.1734923	0.26575928	2.3959464	21	2 7.6	20.3
156918 2003 FC_{50}	16.1	X	216.90771	343.72580	142.63985	13.49174	0.2136562	0.24084501	2.5584540	21	9 6.1	20.2
156919 2003 FY_{51}	16.3	X	20.87443	32.18502	130.59929	7.12374	0.0627457	0.27051002	2.3678116	21	2 11.7	18.9
156920 2003 FS_{55}	17.2	X	313.83582	122.18566	345.52395	2.16489	0.1505470	0.25556057	2.4592734	21	—	—
156921 2003 FT_{56}	17.0	X	328.83316	92.97702	42.69686	3.20882	0.1383518	0.26057078	2.4276472	21	—	—
156922 2003 FD_{58}	16.8	X	340.92941	242.30602	269.21681	0.45960	0.1342459	0.26342706	2.4100670	21	—	—
156923 2003 FT_{58}	16.3	X	269.89718	162.09583	56.65013	5.23338	0.1447201	0.26034261	2.4290654	21	—	—
156924 2003 FC_{59}	16.7	X	340.46533	55.38850	67.54755	3.57404	0.1689451	0.26023303	2.4297473	21	—	—
156925 2003 FJ_{60}	16.4	X	255.50574	110.68283	131.02832	7.21051	0.0986727	0.26130676	2.4230867	21	—	—
156926 2003 FQ_{61}	16.5	X	250.83049	141.61276	121.31870	2.21240	0.1524898	0.26211460	2.4181055	21	—	—
156927 2003 FL_{63}	16.7	X	353.75159	70.57625	72.99033	3.13890	0.1429389	0.26373379	2.4081981	21	—	—
156928 2003 FW_{71}	16.8	X	271.25925	164.67688	43.79154	3.02228	0.1477908	0.25815056	2.4427968	21	—	—
156929 2003 FL_{73}	16.2	X	125.41153	171.88620	74.27634	10.10349	0.1750706	0.24023698	2.5627691	21	11 13.6	20.3
156930 2003 FZ_{74}	15.6	X	133.08546	128.36037	142.49849	9.64226	0.1135287	0.24460129	2.5321935	21	12 18.5	19.6
156931 2003 FU_{83}	15.5	X	141.56475	154.95374	45.80588	15.96100	0.0983362	0.23614560	2.5922854	21	10 5.8	19.6
156932 2003 FZ_{87}	16.1	X	215.02978	101.89207	135.07892	6.73528	0.0900985	0.25340800	2.4731806	21	—	—
156933 2003 FM_{96}	15.8	X	253.42543	68.88768	2.08962	25.62770	0.3198875	0.24228415	2.5483127	21	7 30.8	20.4
156934 2003 FU_{97}	15.8	X	124.31665	22.30618	252.87021	12.27850	0.2193100	0.24355148	2.5394648	21	12 16.8	20.1
156935 2003 FX_{103}	16.7	X	340.40214	273.04732	253.75701	1.13142	0.1198271	0.26400180	2.4065679	21	—	—
156936 2003 FN_{111}	16.1	X	183.51471	147.60680	115.43338	8.70263	0.0878652	0.25412269	2.4685415	21	—	—
156937 2003 FU_{112}	16.3	X	288.34872	233.61103	358.50735	11.40306	0.1490804	0.26615452	2.3935738	21	—	—
156938 2003 FQ_{118}	16.8	X	265.15319	204.24780	74.09279	2.27462	0.1698082	0.26793957	2.3829310	21	1 30.9	20.4
156939 Odegard	15.7	X	117.18147	157.80979	144.19034	11.31969	0.1783134	0.24587498	2.5234410	21	—	—
156940 2003 FA_{121}	16.7	X	37.05314	289.02728	152.01988	3.09321	0.1804795	0.26336019	2.4104750	21	—	—
156941 2003 GY_1	15.5	X	119.05409	47.25189	180.02369	16.62507	0.1762341	0.23551775	2.5968904	21	10 15.7	19.7
156942 2003 GB_3	15.8	X	189.52742	250.17115	358.34021	6.41390	0.1084831	0.25243082	2.4795591	21	—	—
156943 2003 GC_4	16.3	X	224.42725	80.21620	181.90132	2.49519	0.1679709	0.25738577	2.4476333	21	—	—
156944 2003 GM_4	16.8	X	228.67063	107.13407	166.66357	0.31178	0.1727197	0.25934453	2.4352936	21	—	—
156945 2003 GO_4	16.5	X	148.89972	77.92243	187.83717	7.57446	0.2462909	0.24517806	2.5282207	21	12 24.5	21.0
156946 2003 GF_5	16.4	X	264.66862	20.21605	200.05962	7.40134	0.1114209	0.25842975	2.4410371	21	—	—
156947 2003 GO_5	16.5	X	166.76724	345.15898	187.11165	3.97340	0.1452907	0.23848066	2.5753362	21	9 18.6	20.6
156948 2003 GG_{15}	16.8	X	127.99806	59.29338	36.45222	6.31849	0.1054242	0.27866709	2.3213765	21	4 25.3	19.9
156949 2003 GX_{28}	16.2	X	149.19300	32.69876	144.62960	5.60029	0.0998737	0.23497696	2.6008733	21	9 7.9	20.0
156950 2003 GE_{41}	16.7	X	178.93362	320.95941	176.25777	6.21632	0.2451753	0.23630672	2.5911069	21	8 14.4	21.2
156951 2003 GQ_{41}	15.9	X	139.41365	17.52978	165.42253	13.48331	0.1012622	0.23120870	2.6290566	21	9 3.2	19.7
156952 2003 GQ_{50}	16.0	X	127.84904	96.03386	191.53556	7.11257	0.2072901	0.24424585	2.5346496	21	—	—
156953 2003 HD_{12}	15.7	X	71.82723	163.82531	101.47773	13.41923	0.1502272	0.23165915	2.6256475	21	10 16.8	19.6
156954 2003 HP_{12}	15.7	X	7.74740	96.91573	192.93168	8.89533	0.1083239	0.22692633	2.6620290	21	7 27.1	18.8
156955 2003 HO_{13}	16.2	X	74.59590	188.70720	76.37460	4.53121	0.1317000	0.23358819	2.6111719	21	10 12.5	19.9
156956 2003 HE_{15}	16.0	X	51.18864	245.35479	69.70582	10.27525	0.0780535	0.23888585	2.5724233	21	11 9.8	19.4
156957 2003 HY_{20}	16.3	X	132.02932	49.57120	205.21540	13.22972	0.1792555	0.23990165	2.5651567	21	11 28.8	20.6
156958 2003 HZ_{21}	15.9	X	134.34469	334.28909	201.61946	13.05268	0.0906117	0.23139346	2.6276569	21	8 15.2	20.0
156959 2003 HK_{24}	16.6	X	338.34539	259.27072	81.74538	2.89001	0.0585247	0.23116712	2.6293718	21	8 23.8	19.8
156960 2003 HM_{24}	16.0	X	79.78604	131.74639	87.82040	13.08262	0.1501480	0.22718817	2.6599832	21	8 24.7	19.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
156961 2003 HM_{27}	16.3	X	202.72388	61.04776	198.84546	6.14382	0.1280221	0.25319165	2.4745893	21	—	—
156962 2003 HL_{29}	16.2	X	43.72482	268.46480	30.36575	6.42870	0.1430067	0.23263342	2.6183115	21	10 16.5	19.3
156963 2003 HP_{29}	16.0	X	43.22709	274.60614	41.64392	13.74040	0.2000291	0.23395926	2.6084102	21	11 14.9	19.3
156964 2003 HF_{30}	15.7	X	340.56813	156.61091	34.37408	12.78816	0.1432645	0.21042703	2.7994220	21	1 26.9	19.4
156965 2003 HE_{32}	17.0	X	250.41490	220.99196	344.58402	1.00343	0.1232929	0.25345183	2.4728955	21	—	—
156966 2003 HH_{32}	16.6	X	182.41891	125.67728	62.95488	13.67014	0.1734239	0.24244692	2.5471720	21	10 27.3	20.8
156967 2003 HB_{36}	16.7	X	166.25007	330.83189	179.76301	5.15003	0.2144086	0.23513808	2.5996850	21	8 21.1	21.2
156968 2003 HJ_{40}	15.9	X	141.19305	353.91076	218.87796	3.25740	0.1131449	0.23589432	2.5941260	21	10 13.7	19.7
156969 2003 HK_{44}	16.3	X	75.36950	103.90654	129.87872	3.57457	0.0897480	0.23016110	2.6370282	21	8 24.9	19.6
156970 2003 HY_{44}	16.6	X	208.77809	96.96004	62.97496	5.56855	0.0952188	0.24059841	2.5602019	21	10 21.3	20.3
156971 2003 HQ_{55}	16.8	X	168.45340	16.90562	198.49234	3.53723	0.1573947	0.24285315	2.5443307	21	11 13.4	20.7
156972 2003 JY_{3}	15.6	X	42.81381	290.90472	345.30476	11.25413	0.2431545	0.22868399	2.6483713	21	9 26.9	18.8
156973 2003 JM_{4}	17.0	X	323.13154	2.26017	167.19172	1.70105	0.0880699	0.26141559	2.4224141	21	—	—
156974 2003 JO_{4}	16.3	X	148.71322	145.71662	59.59744	5.14667	0.1069701	0.23876660	2.5732797	21	10 14.5	20.1
156975 2003 JW_{5}	16.1	X	329.42400	212.18767	203.67366	9.12358	0.1551620	0.24202921	2.5501018	21	11 24.4	18.5
156976 2003 JH_{7}	15.9	X	97.09172	224.70261	92.28940	7.73524	0.2439257	0.24334477	2.5409027	21	—	—
156977 2003 JV_{10}	15.9	X	101.83297	46.81212	254.10498	4.01503	0.2133029	0.24010465	2.5637106	21	12 28.5	20.2
156978 2003 JT_{12}	16.4	X	85.15291	28.01858	259.48601	1.52849	0.1998603	0.23820346	2.5773338	21	11 26.9	20.4
156979 2003 JB_{13}	15.4	X	13.96469	138.63557	160.80619	14.65807	0.1029165	0.22748098	2.6577002	21	8 22.6	18.5
156980 2003 JE_{15}	16.4	X	115.49704	217.18306	57.31927	2.99140	0.0651926	0.24370292	2.5384127	21	12 1.9	20.1
156981 2003 KS_{1}	15.9	X	49.98810	113.78154	188.68919	13.09539	0.0936181	0.23296805	2.6158036	21	10 23.6	19.3
156982 2003 KD_{2}	15.4	X	283.27349	271.95988	107.85949	14.43516	0.0984990	0.22582489	2.6706779	21	7 17.5	18.7
156983 2003 KF_{7}	16.4	X	5.76226	166.86782	167.02932	9.09833	0.1330739	0.23015004	2.6371127	21	10 2.7	19.3
156984 2003 KB_{10}	16.0	X	282.50257	162.58639	171.42910	8.72103	0.2266578	0.21905396	2.7254318	21	4 29.2	20.0
156985 2003 KE_{10}	14.9	X	34.27120	64.64867	232.70131	16.25270	0.1913870	0.22768935	2.6560785	21	10 2.1	18.3
156986 2003 KA_{11}	16.2	X	98.99894	65.60666	175.44254	5.25250	0.1744201	0.23242771	2.6198562	21	10 12.3	20.3
156987 2003 KC_{12}	16.1	X	44.29481	109.65340	168.32433	11.30689	0.1122930	0.22930767	2.6435670	21	9 13.3	19.1
156988 2003 KE_{12}	15.5	X	358.27052	216.02499	108.62075	9.19751	0.2344274	0.22710693	2.6606176	21	9 14.4	17.8
156989 2003 KB_{13}	15.8	X	70.10581	240.21602	100.71071	6.90087	0.3015536	0.24050702	2.5608504	21	—	—
156990 Claerbout	15.2	X	265.99473	298.96725	91.25210	22.97692	0.0361215	0.22481148	2.6786978	21	7 17.5	18.9
156991 2003 LK_{1}	16.1	X	185.81139	54.46131	108.12513	13.39129	0.1162881	0.23676105	2.5877911	21	10 2.9	20.3
156992 2003 LD_{6}	14.7	X	104.95636	31.19873	214.92224	32.55562	0.1691179	0.23169979	2.6253404	21	10 22.6	18.9
156993 2003 ME	14.9	X	126.17445	350.01337	219.96300	32.34314	0.1397403	0.22873719	2.6479607	21	9 21.2	19.6
156994 2003 MT_{11}	15.6	X	11.13653	139.82325	140.48830	10.38755	0.2613731	0.21769949	2.7367247	21	8 2.4	17.8
156995 2003 NM	15.4	X	42.36020	42.74102	241.52427	11.87222	0.1625243	0.22489886	2.6780039	21	9 20.9	19.0
156996 2003 OC_{5}	15.6	X	329.55986	146.71108	146.60174	9.80204	0.1636164	0.21285845	2.7780632	21	5 22.9	18.9
156997 2003 OK_{5}	15.5	X	198.77964	189.63305	138.57025	5.87809	0.1530862	0.19637129	2.9314605	21	2 9.9	20.3
156998 2003 ON_{7}	15.0	X	127.61170	182.48400	171.56691	10.60328	0.1018076	0.19059882	2.9903539	21	—	—
156999 2003 OC_{9}	14.3	X	41.10166	163.86917	187.86636	13.17112	0.3024836	0.17396172	3.1780954	21	12 29.8	19.0
157000 2003 OL_{11}	14.5	X	325.60205	194.56038	197.70983	17.26175	0.0978928	0.16987229	3.2288983	21	10 1.1	18.7
157001 2003 OU_{24}	15.8	X	339.97210	157.54894	149.08830	7.77051	0.1448867	0.21676782	2.7445607	21	6 30.1	18.8
157002 2003 OZ_{29}	15.5	X	138.39035	210.93285	117.04992	6.40489	0.1221239	0.18560871	3.0437138	21	—	—
157003 2003 OE_{30}	15.4	X	117.93525	345.23920	8.99334	2.68416	0.1091429	0.18582029	3.0414030	21	—	—
157004 2003 OB_{33}	15.7	X	318.62462	170.11197	134.93613	4.06578	0.1753220	0.21310410	2.7759279	21	5 17.3	18.9
157005 2003 PG_{4}	16.4	X	75.53005	323.91843	316.33802	7.20529	0.3217560	0.22930215	2.6436094	21	11 17.9	20.9
157006 2003 QH_{3}	15.2	X	145.65778	109.19310	203.82326	3.07831	0.0731680	0.18499337	3.0504595	21	—	—
157007 2003 QZ_{6}	15.6	X	188.19680	164.46530	171.56231	3.11901	0.0981412	0.19402227	2.9550738	21	2 7.5	20.1
157008 2003 QR_{11}	15.5	X	153.87898	204.33956	125.46005	4.31053	0.1240066	0.18897424	3.0074677	21	—	—
157009 2003 QW_{18}	15.2	X	37.34850	22.79683	340.00046	4.94366	0.1343135	0.17412295	3.1761332	21	12 15.4	19.5
157010 2003 QY_{32}	15.6	X	117.42131	211.51672	130.81576	0.95752	0.1704460	0.18392835	3.0622238	21	—	—
157011 2003 QX_{37}	15.4	X	180.61742	164.88403	156.10984	10.95464	0.0959553	0.19180960	2.9777563	21	1 13.4	20.1
157012 2003 QC_{38}	15.3	X	62.61377	200.80094	142.46009	1.98161	0.1810862	0.17606799	3.1526986	21	12 28.8	20.0
157013 2003 QH_{41}	15.2	X	119.93725	337.64460	341.06499	10.40233	0.2066687	0.18039278	3.1021059	21	—	—
157014 2003 QO_{46}	13.6	X	79.32827	18.33432	15.49338	17.27261	0.3479434	0.12405000	3.9817276	21	2 10.8	19.1
157015 Walterstraube	14.9	X	54.74480	158.12048	208.50612	9.65634	0.0623996	0.17844452	3.1246442	21	12 31.4	19.5
157016 2003 QL_{52}	14.9	X	74.21528	225.98487	130.37213	10.27528	0.0603048	0.18061824	3.0995239	21	—	—
157017 2003 QX_{53}	15.5	X	151.45972	316.45974	59.29606	3.21027	0.1443514	0.19319723	2.9634808	21	2 23.8	20.1
157018 2003 QD_{56}	14.8	X	137.41705	295.21769	0.97136	12.03861	0.0788581	0.18015423	3.1048437	21	—	—
157019 2003 QX_{58}	14.9	X	81.88995	305.98088	60.12329	5.30936	0.1524479	0.18071106	3.0984623	21	—	—
157020 Fertoszentmiklós	16.0	X	98.03398	152.45029	158.19090	10.54524	0.0646871	0.17532482	3.1616014	21	12 15.9	20.8
157021 2003 QA_{69}	14.6	X	128.83268	285.58174	98.34065	11.65751	0.1130219	0.19196867	2.9761111	21	2 7.4	19.0
157022 2003 QA_{77}	15.2	X	88.61252	161.65071	181.67267	17.41153	0.2023470	0.17793333	3.1306259	21	—	—
157023 2003 QM_{80}	15.9	X	78.98446	315.02509	353.01924	1.37828	0.1337298	0.17375892	3.1805677	21	11 28.7	20.6
157024 2003 QN_{86}	14.5	X	124.55057	336.39638	312.93504	16.75295	0.1934940	0.17820170	3.1274820	21	12 25.8	19.9
157025 2003 QW_{88}	13.4	X	101.03062	342.29355	45.17621	9.16221	0.2468424	0.12463116	3.9693400	21	2 10.5	19.2
157026 2003 QW_{93}	15.4	X	192.30149	317.16949	47.95768	2.53313	0.1442878	0.19968027	2.8989849	21	3 19.8	20.0
157027 2003 QQ_{95}	14.7	X	109.43355	317.16097	324.81285	13.75983	0.1272491	0.17342505	3.1846484	21	11 25.7	19.9
157028 2003 QH_{103}	14.3	X	263.42080	340.64688	42.55575	9.27721	0.1418776	0.15448902	3.4398352	21	6 19.7	19.4
157029 2003 QE_{104}	14.7	X	114.71465	265.80970	95.54583	11.57658	0.1764663	0.18296671	3.0729441	21	1 3.4	19.0
157030 2003 QM_{106}	14.7	X	110.36026	155.98261	188.62722	4.93218	0.0874474	0.18101670	3.0949737	21	—	—
157031 2003 QO_{109}	14.8	X	172.76434	296.36982	49.93126	11.17083	0.1129117	0.19236552	2.9720166	21	2 10.5	19.6
157032 2003 RE_{4}	14.5	X	92.58081	326.04777	40.93072	17.87718	0.2136021	0.18045160	3.1014317	21	—	—
157033 2003 SU_{12}	15.4	X	219.22150	96.84623	192.73117	3.38620	0.0884525	0.19118200	2.9842695	21	1 14.7	20.1
157034 2003 SX_{12}	15.0	X	38.48069	181.23736	180.19568	4.84865	0.0464369	0.17326834	3.1865684	21	12 3.9	19.4
157035 2003 SV_{17}	15.5	X	168.76802	111.51169	195.72611	5.42317	0.1420930	0.18587633	3.0407916	21	—	—
157036 2003 SG_{23}	14.9	X	92.68109	28.69562	284.99625	4.33249	0.1645196	0.17527015	3.1622588	21	12 22.4	19.7
157037 2003 SV_{25}	15.1	X	37.00472	163.78445	185.16124	14.91347	0.1431664	0.17182374	3.2044041	21	11 30.8	19.6
157038 2003 SW_{32}	15.0	X	110.41884	160.99098	150.67119	6.08525	0.1272805	0.17648403	3.1477419	21	—	—
157039 2003 SQ_{34}	14.6	X	68.90491	40.33024	261.32695	2.95639	0.0160559	0.17007899	3.2262816	21	10 23.9	19.1
157040 2003 SA_{37}	14.6	X	176.27637	307.00330	323.65446	5.32609	0.1080908	0.18048942	3.1009984	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
157041 2003 SC_{37}	14.7	X	42.14096	172.22232	205.54769	23.40760	0.0760323	0.17945994	3.1128465	21	12 29.5	19.5
157042 2003 SK_{44}	14.4	X	82.93627	100.00184	202.89700	14.45301	0.1059062	0.17136839	3.2100779	21	11 24.6	19.2
157043 2003 ST_{44}	14.7	X	102.14434	62.84252	233.28001	4.74264	0.1466627	0.17371921	3.1810523	21	12 9.4	19.7
157044 2003 SN_{51}	14.9	X	135.34855	153.99762	147.93993	8.30831	0.1051877	0.17829700	3.1263674	21	—	—
157045 2003 SZ_{53}	15.0	X	32.01643	264.97120	70.50913	2.05528	0.0959859	0.16908961	3.2388544	21	10 30.6	19.3
157046 2003 SY_{56}	15.2	X	353.28108	197.82744	201.78486	4.31956	0.1228763	0.17049303	3.2210561	21	11 25.1	19.0
157047 2003 SG_{80}	14.4	X	120.70923	11.24614	295.63097	11.14393	0.1351418	0.17870073	3.1216569	21	—	—
157048 2003 SE_{90}	15.7	X	208.92490	205.36406	113.32328	1.91399	0.1890464	0.19389666	2.9563499	21	2 8.1	20.6
157049 2003 SE_{119}	14.4	X	146.55237	78.09877	238.97677	9.55409	0.1414749	0.18191651	3.0847595	21	—	—
157050 2003 SB_{123}	15.3	X	57.82305	332.02994	26.57010	5.92036	0.1783817	0.17422314	3.1749154	21	—	—
157051 2003 SY_{123}	15.1	X	266.59055	339.45861	226.05228	5.24930	0.0388145	0.18533527	3.0467068	21	—	—
157052 2003 SH_{138}	14.5	X	116.13208	286.64835	35.93634	15.04946	0.2407049	0.17886103	3.1197915	21	—	—
157053 2003 SJ_{139}	15.0	X	318.21304	244.18241	348.02583	12.86225	0.2159276	0.20103289	2.8859667	21	2 7.7	18.9
157054 2003 SB_{147}	14.4	X	88.07932	30.33103	288.30048	4.69668	0.1517733	0.17198122	3.2024476	21	12 22.0	19.2
157055 2003 ST_{149}	15.4	X	118.72609	249.15794	56.92000	6.27105	0.1584043	0.17854254	3.1235005	21	—	—
157056 2003 SJ_{153}	14.8	X	113.46087	311.44808	31.82299	12.10959	0.1721740	0.18150554	3.0894141	21	—	—
157057 2003 SO_{156}	15.2	X	157.23399	114.65246	199.45279	3.28964	0.1266710	0.18327909	3.0694515	21	—	—
157058 2003 ST_{166}	14.7	X	180.38714	267.97062	10.37673	14.99869	0.3297810	0.18357922	3.0661051	21	—	—
157059 2003 SR_{188}	14.8	X	151.91276	241.96813	58.87811	6.64332	0.0432435	0.18034719	3.1026286	21	—	—
157060 2003 SZ_{199}	14.5	X	313.63168	163.02652	217.26277	17.20196	0.1067275	0.15722063	3.3998757	21	8 21.1	19.3
157061 2003 SP_{201}	15.3	X	74.64397	295.40967	45.94763	1.35871	0.1851226	0.17266741	3.1939575	21	—	—
157062 2003 SU_{209}	14.5	X	64.81043	135.52552	206.39067	11.96972	0.0558089	0.17264266	3.1942627	21	12 13.1	19.2
157063 2003 SJ_{211}	14.7	X	43.06995	312.47243	42.54252	10.79384	0.0268046	0.17439918	3.1727785	21	11 27.5	19.2
157064 Sedona	14.6	X	341.90635	249.99871	218.61017	15.48839	0.0124158	0.18185553	3.0854491	21	—	—
157065 2003 SK_{232}	14.6	X	113.62916	285.80070	44.98994	8.32171	0.1688120	0.17815982	3.1279722	21	—	—
157066 2003 SL_{247}	15.0	X	106.33915	151.04103	143.99132	1.63111	0.1671628	0.17344974	3.1843463	21	12 13.4	20.0
157067 2003 SV_{249}	15.1	X	61.83237	322.77903	23.12780	6.59841	0.1624300	0.17119952	3.2121884	21	12 28.1	19.9
157068 2003 ST_{266}	15.4	X	102.52361	236.63805	62.53396	2.29547	0.1651598	0.17345897	3.1842332	21	12 14.4	20.4
157069 2003 SR_{304}	14.8	X	211.94046	257.69443	36.40952	10.44648	0.1998620	0.18923720	3.0046810	21	1 15.9	20.1
157070 2003 SG_{307}	14.0	X	94.88972	75.51841	248.45658	21.39728	0.1431347	0.17429734	3.1740143	21	12 31.1	19.2
157071 2003 TR_{3}	14.5	X	10.27369	177.20422	204.38708	16.06278	0.1822886	0.17131228	3.2107788	21	12 5.9	18.5
157072 2003 UM_{7}	15.0	X	218.60461	37.12927	230.05979	9.83805	0.0791157	0.18863675	3.0110538	21	—	—
157073 2003 UL_{56}	14.3	X	330.09680	239.38584	75.57297	15.03412	0.1768867	0.15296877	3.4625884	21	6 20.7	18.5
157074 2003 UE_{61}	14.1	X	109.77278	286.35527	33.50460	26.55303	0.1918090	0.17730150	3.1380590	21	—	—
157075 2003 UR_{280}	14.5	X	117.33115	265.49062	53.76851	11.03294	0.0604608	0.17623680	3.1506849	21	—	—
157076 2003 UT_{281}	14.5	X	104.38998	262.03936	127.82114	5.98694	0.1917528	0.12423995	3.9776682	21	2 6.7	20.1
157077 2003 UO_{294}	15.3	X	120.88491	155.85053	149.66045	5.62963	0.1613154	0.17655049	3.1469519	21	—	—
157078 2003 WQ_{31}	14.7	X	316.09351	302.45307	22.31157	8.97861	0.0792630	0.15009399	3.5066615	21	6 23.7	19.6
157079 2003 WB_{98}	15.9	X	232.43576	132.41136	280.12884	17.99647	0.0919408	0.36474045	1.9400523	21	6 26.5	17.8
157080 2003 YG_{1}	17.1	X	111.50127	288.26832	308.71184	18.10604	0.0986621	0.37530348	1.9034771	21	10 19.1	20.0
157081 2003 YL_{146}	16.8	X	343.42295	31.63629	326.05546	17.64655	0.0813383	0.37366315	1.9090437	21	10 4.2	18.6
157082 2004 CW_{50}	17.3	X	129.19955	298.31732	142.90409	5.09090	0.1523546	0.35164668	1.9879175	21	4 7.3	19.4
157083 2004 CY_{51}	17.1	X	36.46494	261.34845	0.98477	20.33699	0.1130777	0.36191715	1.9501287	21	8 29.7	18.9
157084 2004 CP_{114}	16.3	X	67.89012	237.33155	25.48537	21.90670	0.0883511	0.36666769	1.9332482	21	10 11.9	18.3
157085 2004 EA_{2}	16.7	X	10.72338	35.06040	142.46170	6.02495	0.0408557	0.28548071	2.2842916	21	2 14.7	19.3
157086 2004 EQ_{10}	17.0	X	90.56603	244.42327	23.04345	2.77824	0.1106939	0.31149859	2.1552550	21	11 8.5	19.8
157087 2004 EH_{57}	16.4	X	120.09922	319.44323	206.95201	20.74092	0.0532248	0.35998062	1.9571163	21	7 13.4	19.2
157088 2004 ER_{74}	17.0	X	75.65687	27.03577	174.62869	6.21458	0.1266242	0.29833719	2.2181851	21	7 17.4	19.5
157089 2004 ET_{115}	16.4	X	61.34814	267.68035	133.13308	7.75426	0.1130153	0.27288303	2.3540645	21	—	—
157090 2004 FU_{1}	17.4	X	61.53529	306.24658	201.60346	21.19184	0.0538953	0.34687558	2.0061046	21	3 8.3	19.5
157091 2004 FZ_{36}	17.1	X	60.87590	258.47054	37.88653	3.36808	0.0523718	0.31244362	2.1509069	21	11 3.5	19.3
157092 2004 FS_{107}	16.9	X	46.21085	251.98783	38.20653	4.53949	0.1560849	0.30455291	2.1879004	21	10 21.1	19.3
157093 2004 GT_{40}	16.6	X	311.76972	332.90038	16.21593	5.77719	0.1579468	0.29956164	2.2121365	21	7 10.8	18.6
157094 2004 HX_{10}	17.0	X	123.26637	327.77196	326.19781	1.80819	0.1616350	0.31610260	2.1342765	21	—	—
157095 2004 HD_{18}	16.6	X	108.33948	80.25081	193.95683	2.46419	0.1537169	0.31017273	2.1613925	21	12 9.6	19.8
157096 2004 HQ_{32}	16.5	X	353.69716	229.64305	121.16595	4.82921	0.1909061	0.30548431	2.1834510	21	10 28.1	17.9
157097 2004 HR_{52}	16.6	X	294.47844	125.74640	218.30717	4.78746	0.0288626	0.29488423	2.2354675	21	6 23.4	19.2
157098 2004 HN_{61}	17.4	X	295.58046	293.63527	34.11433	3.47612	0.1939686	0.28969848	2.2620658	21	5 3.3	20.2
157099 2004 HC_{62}	15.4	X	233.48267	291.42310	8.51140	22.48789	0.2740489	0.27000798	2.3707458	21	2 4.8	20.0
157100 2004 JV_{9}	17.3	X	15.79041	92.08877	178.91741	5.23903	0.0898968	0.29528989	2.2334196	21	7 15.5	19.3
157101 2004 JL_{14}	16.7	X	86.78331	86.24375	99.72696	8.29067	0.0385719	0.29385147	2.2407022	21	6 26.3	19.0
157102 2004 JU_{14}	17.3	X	120.77605	76.55585	184.31191	3.58192	0.0632467	0.31038583	2.1604031	21	12 2.5	20.0
157103 2004 JG_{16}	16.9	X	104.35660	49.94595	177.78004	2.84614	0.0842150	0.30397203	2.1906869	21	9 28.2	19.6
157104 2004 JS_{33}	16.7	X	321.89571	251.08053	166.20593	3.45377	0.0252730	0.30984314	2.1629250	21	11 27.6	18.9
157105 2004 JV_{33}	16.6	X	72.96981	227.79839	103.44890	6.36111	0.2031765	0.31065167	2.1591704	21	—	—
157106 2004 JQ_{35}	15.7	X	220.72118	219.95262	114.37364	10.09144	0.2779129	0.27167630	2.3610302	21	3 1.3	20.0
157107 2004 JY_{35}	16.3	X	46.95751	338.82863	14.38067	4.37722	0.1810194	0.31135200	2.1559314	21	—	—
157108 2004 LF_{5}	16.6	X	92.24565	35.60913	185.12203	8.61262	0.0328870	0.29894939	2.2151557	21	8 22.8	19.4
157109 2004 LU_{7}	16.9	X	280.41244	357.58053	313.46135	2.54671	0.2664495	0.27971851	2.3155558	21	3 15.4	20.6
157110 2004 LG_{11}	17.2	X	175.17114	287.64698	186.43957	5.31466	0.0784031	0.29611276	2.2292801	21	7 13.9	20.3
157111 2004 LU_{23}	16.4	X	259.32796	132.34756	220.79830	3.65081	0.3142197	0.27648080	2.3335981	21	4 15.8	20.5
157112 2004 LH_{25}	16.7	X	353.84768	8.52502	251.72718	5.64574	0.1472253	0.28539609	2.2847431	21	5 11.3	18.5
157113 2004 LW_{25}	16.2	X	263.63296	4.49277	280.20335	9.26766	0.2105116	0.27221134	2.3579354	21	1 31.1	20.1
157114 2004 LX_{25}	16.2	X	242.20122	197.12659	125.79350	7.01341	0.1245516	0.27518005	2.3409461	21	3 8.8	19.6
157115 2004 LF_{27}	16.4	X	155.28749	137.06525	219.92192	5.73041	0.1553421	0.26416985	2.4055472	21	1 23.1	19.9
157116 2004 MG_{1}	16.6	X	249.55358	174.30334	155.91574	6.62557	0.2655196	0.27462445	2.3441024	21	3 15.6	20.6
157117 2004 MC_{7}	16.6	X	140.38349	245.19972	115.13268	6.29689	0.1413358	0.26249871	2.4157460	21	1 10.7	19.7
157118 2004 NT	16.5	X	274.18301	347.37509	271.08026	6.99160	0.0860434	0.27136544	2.3628330	21	1 19.8	19.7
157119 2004 NF_{2}	16.8	X	201.40533	308.15459	348.28404	3.78954	0.1781938	0.26441567	2.4040560	21	—	—
157120 2004 NH_{4}	16.6	X	318.44685	245.74714	88.46381	4.92458	0.2860803	0.28553347	2.2840101	21	6 3.6	18.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
157121 2004 NC_5	16.7	X	305.91496	166.75487	112.86117	4.33871	0.1485978	0.27992956	2.3143917	21	3 21.3	19.5
157122 2004 NG_5	16.7	X	252.01414	199.10114	145.20897	2.88050	0.2373536	0.27570886	2.3379519	21	4 5.9	20.6
157123 2004 NW_5	16.6	X	284.61380	347.51423	334.79916	4.12734	0.2381292	0.28122176	2.3072967	21	4 5.5	20.1
157124 2004 NJ_{13}	16.3	X	130.69539	234.84680	126.29620	7.20651	0.1291711	0.26196002	2.4190566	21	—	—
157125 2004 NQ_{15}	16.7	X	274.79745	13.46635	213.17232	2.63821	0.1345518	0.26667302	2.3904701	21	—	—
157126 2004 NA_{17}	16.5	X	69.39678	222.98721	182.71810	3.21686	0.1679521	0.25764379	2.4459990	21	—	—
157127 2004 NM_{17}	16.2	X	166.18299	134.00910	140.17318	12.65165	0.1222777	0.25489131	2.4635764	21	—	—
157128 2004 NQ_{20}	17.1	X	347.46990	86.82737	238.36158	3.19973	0.2502393	0.29060471	2.2573607	21	8 16.9	17.9
157129 2004 NT_{20}	17.1	X	324.53929	116.65966	196.84221	3.69387	0.2003885	0.28582033	2.2824817	21	5 30.2	19.0
157130 2004 NZ_{24}	15.1	X	294.97518	314.32114	356.68449	13.39686	0.2000985	0.21891529	2.7265826	21	4 11.4	19.0
157131 2004 NG_{25}	15.3	X	318.54371	316.18028	44.23105	5.19824	0.2523099	0.22713791	2.6603757	21	7 25.2	17.8
157132 2004 NS_{26}	16.7	X	194.78853	116.62770	240.18047	2.35827	0.2134243	0.26954024	2.3734876	21	3 4.4	20.7
157133 2004 NX_{30}	16.7	X	154.97728	326.55032	347.78899	1.41388	0.1805132	0.25875427	2.4389957	21	—	—
157134 2004 OR	17.4	X	312.10208	186.27205	91.12169	1.81716	0.2030974	0.28040105	2.3117966	21	3 16.7	20.3
157135 2004 OC_3	17.0	X	256.05866	115.65651	217.64565	2.83356	0.2379348	0.27634788	2.3343463	21	3 24.6	20.8
157136 2004 OD_3	16.4	X	166.82075	207.42208	131.13176	3.40216	0.1930204	0.26249229	2.4157854	21	1 17.5	19.9
157137 2004 OY_4	16.7	X	340.38385	165.58584	118.07434	2.68661	0.2146085	0.28491918	2.2872919	21	5 12.7	18.4
157138 2004 OU_5	16.8	X	251.66626	301.65209	2.90668	4.71322	0.2353531	0.27386814	2.3484161	21	2 16.2	20.6
157139 2004 OE_{11}	16.4	X	337.08414	222.17309	67.31338	7.33551	0.1372985	0.28442302	2.2899512	21	5 26.5	18.1
157140 2004 OG_{11}	16.4	X	202.83806	323.38763	25.91268	7.12856	0.1442967	0.26984739	2.3716862	21	3 4.5	20.1
157141 Sopron	16.1	X	240.07394	313.46186	163.78044	15.70379	0.1144939	0.23802666	2.5786099	21	9 30.6	19.7
157142 2004 PV_1	17.3	X	347.20838	251.30209	52.88561	3.02119	0.1706869	0.28815226	2.2701508	21	7 11.1	18.8
157143 2004 PX_1	16.4	X	215.88069	212.28402	59.78836	3.68221	0.1469861	0.26265863	2.4147653	21	—	—
157144 2004 PR_2	15.9	X	219.56529	109.64139	255.99498	3.62226	0.1687797	0.21458519	2.7631399	21	4 9.7	20.4
157145 2004 PW_2	16.4	X	87.55291	307.95513	349.80248	4.90584	0.2088210	0.24567629	2.5248014	21	12 12.9	20.4
157146 2004 PK_7	15.2	X	4.60443	193.03725	158.67067	11.27628	0.0658472	0.17886031	3.1197999	21	10 13.1	19.3
157147 2004 PQ_7	16.5	X	195.00795	128.92229	165.03396	4.55982	0.1715573	0.26123837	2.4235096	21	—	—
157148 2004 PK_{11}	15.5	X	180.12753	120.94594	137.94297	6.04448	0.0752406	0.19594705	2.9356903	21	—	—
157149 2004 PB_{12}	16.5	X	202.22979	193.15215	136.42181	3.34017	0.2362750	0.26700020	2.3885170	21	2 7.5	20.4
157150 2004 PO_{14}	16.6	X	175.70787	307.94426	23.83116	2.23596	0.2200696	0.26209201	2.4182444	21	1 20.2	20.4
157151 2004 PU_{14}	16.1	X	183.96839	265.22588	60.99879	3.36084	0.1964589	0.26281402	2.4138134	21	1 19.1	19.9
157152 2004 PH_{18}	16.6	X	257.19692	107.93117	193.27639	2.70145	0.1797710	0.27224092	2.3577646	21	2 17.9	20.2
157153 2004 PF_{19}	16.4	X	346.76093	343.13607	335.18127	2.66865	0.1458788	0.22942498	2.6426658	21	8 1.7	19.0
157154 2004 PM_{19}	16.6	X	160.44625	325.49292	14.07281	1.01685	0.1979417	0.26012184	2.4304396	21	1 13.8	20.3
157155 2004 PR_{20}	15.5	X	293.35343	187.67449	159.43227	15.03438	0.1143689	0.22547247	2.6734601	21	6 15.5	19.3
157156 2004 PG_{22}	16.9	X	165.85267	46.07377	328.46158	1.30824	0.2082521	0.26650706	2.3914625	21	3 2.5	20.6
157157 2004 PB_{28}	16.4	X	269.25878	128.29795	198.15951	6.28179	0.1526626	0.27743531	2.3282426	21	4 6.2	19.4
157158 2004 PO_{28}	16.7	X	44.35057	278.52698	86.36153	0.64229	0.1456229	0.24508019	2.5288937	21	—	—
157159 2004 PU_{30}	16.7	X	273.25437	277.87524	3.34920	1.90570	0.0954116	0.27256514	2.3558945	21	2 17.8	19.8
157160 2004 PA_{32}	16.8	X	189.90228	183.25519	98.02382	1.40671	0.0994380	0.25782243	2.4448690	21	—	—
157161 2004 PR_{32}	16.8	X	255.92391	193.81420	92.55229	2.51131	0.1730001	0.26982317	2.3718282	21	1 31.6	20.5
157162 2004 PW_{34}	16.2	X	199.79135	16.40128	340.22950	3.16148	0.1099519	0.21084749	2.7956991	21	3 13.6	20.6
157163 2004 PD_{35}	16.9	X	165.11776	195.49902	136.15071	2.58342	0.1772448	0.25992827	2.4316461	21	1 6.3	20.3
157164 2004 PN_{36}	16.4	X	164.53415	145.96754	203.48347	6.11210	0.1285267	0.26375105	2.4080930	21	1 20.8	19.9
157165 2004 PT_{36}	16.4	X	202.37001	62.87476	206.27123	4.55161	0.0820877	0.25850760	2.4405470	21	—	—
157166 2004 PY_{37}	16.6	X	200.51959	32.93134	286.52747	0.56925	0.1959261	0.26434283	2.4044977	21	1 24.1	20.6
157167 2004 PQ_{42}	16.7	X	218.99129	133.56688	181.80705	2.24342	0.1856956	0.26793265	2.3829721	21	2 2.5	20.6
157168 2004 PY_{43}	17.3	X	305.29276	353.41071	255.10459	0.74089	0.1566720	0.27393666	2.3480244	21	2 3.9	20.5
157169 2004 PM_{45}	16.4	X	154.21905	285.60056	66.79250	2.44764	0.1832469	0.26028859	2.4294015	21	1 22.3	19.9
157170 2004 PG_{49}	16.7	X	277.50004	223.29477	33.63672	4.03608	0.1292815	0.27022885	2.3694538	21	1 19.9	20.1
157171 2004 PX_{49}	16.3	X	166.41536	245.18230	53.97598	3.08220	0.2108741	0.25779573	2.4450378	21	—	—
157172 2004 PF_{51}	16.6	X	323.45654	230.68719	4.99758	5.45611	0.1201939	0.27433786	2.3457346	21	2 17.9	19.3
157173 2004 PC_{54}	16.8	X	233.35926	54.36082	255.50704	1.64973	0.2024273	0.26920327	2.3754679	21	2 7.5	20.6
157174 2004 PJ_{58}	16.7	X	259.76693	26.02399	237.55454	1.80585	0.1544715	0.26792288	2.3830300	21	1 7.7	20.2
157175 2004 PU_{58}	16.7	X	222.95122	79.89222	196.63344	2.02693	0.1837765	0.26383399	2.4075883	21	—	—
157176 2004 PC_{60}	16.7	X	258.68544	145.30878	175.01051	4.50295	0.2621402	0.27464470	2.3439872	21	3 9.8	20.5
157177 2004 PP_{61}	17.0	X	257.20950	196.45244	119.81021	5.54896	0.2715877	0.27267917	2.3552377	21	3 5.3	21.0
157178 2004 PR_{61}	16.1	X	10.61559	304.84257	42.78844	4.99360	0.2099019	0.23490334	2.6014167	21	11 9.7	18.7
157179 2004 PW_{66}	16.5	X	173.37222	141.26881	222.82983	4.50059	0.1855928	0.26640230	2.3920894	21	2 21.1	20.3
157180 2004 PH_{71}	16.8	X	37.08236	308.72252	314.45565	6.74776	0.2415510	0.29311279	2.2444652	21	9 6.4	18.8
157181 2004 PF_{83}	16.4	X	195.63677	194.51122	105.03113	3.26909	0.2033307	0.26088887	2.4256735	21	—	—
157182 2004 PD_{84}	15.0	X	346.84514	200.66672	161.60348	21.32664	0.0805111	0.17472302	3.1688569	21	9 30.1	19.1
157183 2004 PK_{85}	15.7	X	293.24884	187.36637	161.90198	5.27467	0.3078958	0.22155722	2.7048641	21	5 19.0	19.5
157184 2004 PL_{85}	16.4	X	243.14421	132.94291	158.19726	12.09395	0.2695006	0.26676370	2.3899284	21	1 21.9	20.8
157185 2004 PX_{89}	16.8	X	1.78541	300.10647	5.00323	3.60886	0.3377230	0.28876164	2.2669558	21	9 13.5	17.0
157186 2004 PU_{96}	17.2	X	218.68498	332.86726	283.19796	0.52527	0.1522076	0.26057388	2.4276280	21	—	—
157187 2004 PZ_{99}	14.7	X	331.15783	352.64576	48.26982	10.41801	0.1706725	0.17285826	3.1916061	21	10 21.9	18.3
157188 2004 PU_{103}	14.8	X	300.14658	165.34076	213.03857	13.51911	0.2583788	0.22436744	2.6822309	21	7 11.0	18.3
157189 2004 PX_{106}	16.9	X	190.13645	306.45973	306.48289	1.40047	0.1682826	0.25459624	2.4654795	21	—	—
157190 2004 PK_{113}	16.6	X	329.50328	296.22295	264.27611	3.40412	0.1207523	0.26986293	2.3715952	21	1 8.4	19.4
157191 2004 QL_2	15.2	X	316.63091	154.15879	191.02451	12.39736	0.1837056	0.22425174	2.6831534	21	7 5.9	18.4
157192 2004 QB_4	15.3	X	1.21989	275.82217	151.17571	9.59063	0.1285665	0.18462962	3.0544649	21	—	—
157193 2004 QU_5	15.6	X	246.09010	121.25521	241.36442	4.73766	0.0339137	0.21819872	2.7325487	21	5 15.3	19.5
157194 Saddlemyer	16.2	X	154.37974	81.98082	93.76694	5.12792	0.0411900	0.23395530	2.6084396	21	9 11.8	19.9
157195 2004 QX_{19}	15.0	X	44.26188	176.84584	175.08819	11.13196	0.0822758	0.18247460	3.0784665	21	12 6.9	19.4
157196 2004 QU_{21}	16.7	X	298.45148	345.10979	276.60166	4.01294	0.2022203	0.27391514	2.3481474	21	2 6.4	19.9
157197 2004 QN_{24}	15.1	X	78.89218	163.90224	187.22838	7.79101	0.2411856	0.18435069	3.0575451	21	—	—
157198 2004 RU_1	15.5	X	86.13338	346.09109	357.97690	9.43257	0.0815755	0.18833423	3.0142773	21	—	—
157199 2004 RZ_8	15.9	X	139.07651	28.06554	357.01380	1.33761	0.0928634	0.20220894	2.8747659	21	2 14.3	20.1
157200 2004 RC_9	15.5	X	278.31028	185.26268	168.22428	6.41586	0.0551949	0.22025268	2.7155340	21	6 11.9	19.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
157201 2004 RE_{13}	16.2	X	277.46720	212.27004	61.79376	3.30361	0.2008234	0.27026324	2.3692528	21	2 3.9	19.9
157202 2004 RG_{14}	16.6	X	311.93148	112.76597	222.41339	1.55204	0.1353462	0.22613234	2.6682567	21	6 22.4	19.8
157203 2004 RW_{15}	16.3	X	82.08018	195.79686	87.11095	3.69880	0.1080123	0.23981031	2.5658080	21	11 9.7	19.9
157204 2004 RQ_{16}	16.8	X	268.15434	180.32988	96.12975	3.70400	0.1481751	0.26900337	2.3766445	21	2 2.0	20.3
157205 2004 RT_{18}	15.3	X	15.30124	246.17768	169.80629	10.87432	0.0613834	0.18875779	3.0097664	21	—	—
157206 2004 RU_{18}	16.6	X	252.60364	142.99862	184.38377	1.60826	0.0522564	0.21439201	2.7647996	21	4 6.1	20.3
157207 2004 RX_{18}	16.3	X	90.60057	195.02294	195.16330	1.65429	0.1401839	0.19605268	2.9346357	21	—	—
157208 2004 RH_{22}	16.7	X	16.91549	211.13363	146.61706	0.79460	0.0289467	0.23895633	2.5719174	21	11 10.6	20.0
157209 2004 RL_{22}	15.5	X	140.60256	222.80622	153.80738	2.37960	0.0975332	0.20258221	2.8712335	21	2 5.6	19.5
157210 2004 RQ_{27}	16.0	X	240.04834	163.51346	170.84518	1.88395	0.0320660	0.21414387	2.7669350	21	4 2.1	19.9
157211 2004 RJ_{28}	14.7	X	243.94389	95.48781	341.18798	14.82812	0.0681058	0.17022131	3.2244831	21	8 15.9	19.4
157212 2004 RQ_{28}	16.2	X	34.91222	24.87800	348.60453	3.67823	0.1610997	0.18485264	3.0520076	21	12 31.9	20.4
157213 2004 RS_{28}	16.6	X	336.46449	244.20020	2.24971	1.90282	0.1834013	0.27694787	2.3309737	21	3 12.6	18.9
157214 2004 RV_{28}	15.8	X	242.38543	342.47800	351.77587	8.79044	0.0558205	0.21416325	2.7667680	21	3 31.4	19.8
157215 2004 RZ_{28}	16.7	X	176.81640	150.28436	158.13480	1.88950	0.1461884	0.25884945	2.4383978	21	—	—
157216 2004 RB_{29}	16.9	X	268.05622	185.54661	131.63337	2.98391	0.2464624	0.27772407	2.3266285	21	3 15.9	20.7
157217 2004 RT_{29}	16.8	X	121.99294	236.80860	142.46480	1.64546	0.1916091	0.25896745	2.4376570	21	1 20.4	19.8
157218 2004 RB_{34}	16.5	X	247.25549	262.98005	73.59277	2.07996	0.1007748	0.21505967	2.7590743	21	4 7.5	20.5
157219 2004 RY_{35}	16.3	X	278.93466	271.43436	117.56626	5.51195	0.1236905	0.22624299	2.6673866	21	7 19.9	19.7
157220 2004 RV_{53}	16.4	X	229.42813	257.33765	64.85388	2.83935	0.1442757	0.26816783	2.3815787	21	2 22.5	20.1
157221 2004 RM_{56}	16.2	X	167.69783	303.70422	5.82997	16.03852	0.2445102	0.25745812	2.4471748	21	—	—
157222 2004 RD_{58}	16.3	X	54.94231	220.00977	100.08384	2.55653	0.1675585	0.23942877	2.5685330	21	12 2.3	19.6
157223 2004 RW_{61}	16.6	X	262.25190	322.01547	335.01500	1.85572	0.1914381	0.27112135	2.3642509	21	2 17.7	20.1
157224 2004 RO_{64}	16.0	X	165.78690	235.06784	182.96546	4.31347	0.0593571	0.21222151	2.7836189	21	4 22.2	20.0
157225 2004 RJ_{69}	15.5	X	121.63663	343.54942	77.25362	3.19246	0.0646114	0.20451385	2.8531256	21	3 7.2	19.4
157226 2004 RS_{69}	16.6	X	294.34518	141.93723	110.01772	3.24475	0.1633232	0.26957529	2.3732819	21	1 27.3	19.7
157227 2004 RK_{70}	16.2	X	306.08079	297.95695	25.38170	2.30585	0.0749921	0.22166438	2.7039923	21	6 5.6	19.5
157228 2004 RY_{70}	15.5	X	83.33040	314.82971	98.43171	3.30258	0.0232746	0.19839799	2.9114626	21	1 2.7	19.5
157229 2004 RB_{73}	15.5	X	288.63378	34.87151	27.09656	0.85059	0.2024677	0.16945998	3.2341336	21	8 31.5	19.8
157230 2004 RF_{75}	16.3	X	262.72408	156.06307	146.58386	3.60992	0.1910835	0.27076513	2.3663241	21	2 25.4	19.7
157231 2004 RL_{75}	15.2	X	358.12550	252.19449	170.50933	14.18536	0.1481194	0.18310086	3.0714430	21	—	—
157232 2004 RF_{76}	15.7	X	6.74702	175.30121	108.95360	4.39846	0.0794988	0.22406746	2.6846244	21	7 18.5	18.7
157233 2004 RU_{77}	15.3	X	251.44392	265.79219	57.90909	4.97126	0.0982252	0.21067106	2.7972597	21	3 28.9	19.4
157234 2004 RK_{81}	16.3	X	28.61024	357.77972	323.17057	3.70856	0.1651796	0.23546671	2.5972656	21	10 25.6	19.3
157235 2004 RD_{86}	15.7	X	341.61709	120.88045	159.56740	14.52751	0.0883397	0.22559985	2.6724537	21	6 2.5	19.2
157236 2004 RB_{89}	16.6	X	306.53510	143.46853	194.77533	8.35268	0.1511234	0.28506098	2.2865333	21	6 13.8	19.2
157237 2004 RX_{91}	15.4	X	93.39016	265.97939	290.13047	11.13022	0.1086901	0.22740188	2.6583165	21	7 28.9	19.1
157238 2004 RJ_{93}	15.8	X	170.88141	241.79976	193.19435	8.93397	0.1603935	0.21621010	2.7492784	21	5 23.8	20.3
157239 2004 RP_{96}	16.5	X	315.75768	184.34479	220.46046	4.26849	0.0814442	0.23570420	2.5955208	21	10 13.5	19.3
157240 2004 RE_{100}	15.3	X	83.95477	237.99299	181.61225	12.73872	0.1436969	0.19857389	2.9097430	21	1 23.9	19.2
157241 2004 RU_{104}	16.1	X	235.50601	75.78993	220.14365	4.34794	0.2342396	0.26632160	2.3925726	21	1 22.7	20.3
157242 2004 RN_{105}	15.5	X	148.54755	253.59318	332.31558	11.26504	0.1238919	0.23811709	2.5779570	21	11 2.3	19.7
157243 2004 RQ_{107}	16.1	X	62.34181	294.02814	349.53094	2.64026	0.2299781	0.23628812	2.5912429	21	11 1.3	19.9
157244 2004 RT_{108}	16.0	X	147.68714	163.32704	282.49442	4.35877	0.0303334	0.21565007	2.7540362	21	5 1.3	19.9
157245 2004 RU_{110}	16.3	X	292.38243	194.51328	166.48133	1.40350	0.1216718	0.22387838	2.6861357	21	6 30.6	19.7
157246 2004 RB_{111}	15.7	X	125.54425	228.71484	154.69084	2.42339	0.0880708	0.19973117	2.8984923	21	1 26.9	19.6
157247 2004 RS_{115}	16.1	X	5.13021	182.55499	254.94551	1.06013	0.0529106	0.19070443	2.9892497	21	—	—
157248 2004 RF_{123}	17.4	X	273.32072	218.02057	54.46805	2.08842	0.1454667	0.26966773	2.3727395	21	2 2.4	20.9
157249 2004 RV_{128}	16.6	X	213.99318	76.40174	174.60770	6.19619	0.0980915	0.25528902	2.4610171	21	—	—
157250 2004 RK_{147}	15.7	X	171.85454	164.15783	225.85275	0.55123	0.0502781	0.20905722	2.8116371	21	3 23.5	19.8
157251 2004 RL_{148}	16.9	X	290.19927	199.58484	87.87838	3.44058	0.1895594	0.27357419	2.3500980	21	3 7.2	20.1
157252 2004 RG_{149}	15.6	X	231.76319	266.04888	74.94101	4.44866	0.0990770	0.21049903	2.7987836	21	3 29.5	19.8
157253 2004 RD_{151}	14.7	X	347.38503	227.62423	148.73538	7.61397	0.2028464	0.17333903	3.1857019	21	10 21.6	18.1
157254 2004 RV_{151}	15.9	X	54.90560	243.68836	112.80845	4.95890	0.1796239	0.23960204	2.5672946	21	—	—
157255 2004 RF_{155}	16.2	X	241.33984	167.95639	262.15647	1.95697	0.0940648	0.22641940	2.6660009	21	7 30.7	20.0
157256 2004 RQ_{159}	15.3	X	151.25479	326.33918	233.14403	12.10661	0.1424791	0.23354079	2.6115252	21	10 4.6	19.6
157257 2004 RM_{164}	15.4	X	104.52034	326.85579	80.34991	11.99428	0.1794710	0.19857391	2.9097428	21	2 17.3	19.6
157258 Leach	16.1	X	209.47580	336.79478	13.67468	2.76692	0.1873721	0.20920417	2.8103203	21	3 15.9	20.9
157259 2004 RZ_{171}	16.2	X	242.10192	75.53205	233.78412	1.29229	0.2267831	0.26855856	2.3792681	21	2 13.3	20.3
157260 2004 RZ_{182}	15.4	X	216.10688	126.46820	227.73940	5.63766	0.0692542	0.21055649	2.7982744	21	3 26.6	19.7
157261 2004 RK_{183}	15.7	X	182.81937	179.69890	232.02744	4.18756	0.0236525	0.21401636	2.7680338	21	5 1.5	19.5
157262 2004 RA_{185}	14.5	X	227.45625	152.32434	341.14660	30.17454	0.2432895	0.17320246	3.1873763	21	9 11.4	19.9
157263 2004 RZ_{185}	15.7	X	336.22031	10.42115	278.70758	5.03351	0.0067919	0.21904349	2.7255186	21	6 10.5	19.3
157264 2004 RH_{190}	15.6	X	316.47336	136.62428	212.69650	13.14980	0.2036863	0.22587198	2.6703067	21	7 7.6	18.8
157265 2004 RW_{192}	15.4	X	115.22047	233.94969	203.04532	14.48542	0.1306774	0.20442701	2.8539336	21	3 25.5	19.6
157266 2004 RD_{194}	15.3	X	114.49477	357.22410	210.69617	12.80608	0.0494062	0.22733146	2.6588654	21	8 29.5	19.3
157267 2004 RJ_{198}	15.9	X	106.96050	302.49355	353.13814	10.03482	0.1827049	0.24268007	2.5455403	21	12 26.1	20.2
157268 2004 RL_{200}	15.4	X	250.84378	359.63293	6.21718	14.48099	0.1593377	0.21436151	2.7650618	21	5 6.8	19.8
157269 2004 RB_{209}	15.6	X	180.70822	224.26720	229.90607	13.12557	0.0248694	0.22367252	2.6877836	21	6 22.9	19.5
157270 2004 RP_{217}	15.4	X	254.26814	52.00002	298.19157	10.23610	0.1247997	0.21488888	2.7605361	21	4 24.6	19.8
157271 Gurtovenko	16.3	X	251.24606	289.80640	54.75414	9.42238	0.2721764	0.27439279	2.3454216	21	4 5.9	20.4
157272 2004 RE_{224}	15.9	X	82.56848	111.44967	155.99459	11.85809	0.1406316	0.23460174	2.6036458	21	10 27.5	19.8
157273 2004 RH_{226}	15.6	X	254.83133	175.79416	194.96784	6.48837	0.1376422	0.21805833	2.7337214	21	5 25.4	19.8
157274 2004 RB_{227}	15.2	X	207.79535	194.92308	327.14724	3.85289	0.0849435	0.17422219	3.1749269	21	10 12.9	20.1
157275 2004 RW_{230}	15.9	X	213.44824	2.78361	321.50386	1.14288	0.0840842	0.20341494	2.8633920	21	2 17.6	20.1
157276 2004 RG_{231}	15.8	X	346.94031	179.36500	214.45031	1.81272	0.1105297	0.17584276	3.1553901	21	11 7.8	19.6
157277 2004 RP_{231}	15.7	X	326.18528	285.96323	222.56514	1.59071	0.0505671	0.19102287	2.9859267	21	—	—
157278 2004 RC_{233}	16.8	X	130.18697	262.62511	28.22857	1.45303	0.1602891	0.24514332	2.5284596	21	—	—
157279 2004 RT_{233}	15.7	X	100.98257	186.99949	165.03667	2.88306	0.1280043	0.18943232	3.0026174	21	—	—
157280 2004 RC_{234}	15.8	X	21.18859	2.69551	46.11812	2.30150	0.1964274	0.18332041	3.0689902	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
157281 2004 RS_{254}	15.8	X	169.09042	321.38921	37.67890	8.55447	0.1896539	0.26260556	2.4150907	21	2 17.6	19.7
157282 2004 RH_{258}	16.8	X	246.43925	38.62442	207.31845	3.51820	0.1699412	0.26027567	2.4294819	21	—	—
157283 2004 RL_{281}	15.9	X	32.75297	284.80594	199.37577	1.52574	0.0086335	0.20211555	2.8756513	21	1 23.9	19.9
157284 2004 RZ_{286}	15.5	X	130.40784	343.60560	303.20367	12.12732	0.2344929	0.24481761	2.5307017	21	—	—
157285 2004 RD_{287}	15.3	X	26.41687	0.54869	8.93232	10.69032	0.0986183	0.17738884	3.1370288	21	12 2.9	19.6
157286 2004 RS_{287}	15.1	X	70.66175	322.93726	23.42371	4.50775	0.1473238	0.18321882	3.0701246	21	—	—
157287 2004 RS_{292}	16.5	X	34.80925	213.02827	89.13132	11.79285	0.2884955	0.29478209	2.2359838	21	11 14.4	19.2
157288 2004 RU_{292}	16.0	X	108.69149	329.39742	25.82456	11.61505	0.2943077	0.25466027	2.4650662	21	—	—
157289 2004 RD_{306}	16.6	X	251.80964	271.35882	35.71524	6.26433	0.2160472	0.26861515	2.3789340	21	2 22.4	20.5
157290 2004 RX_{306}	15.2	X	195.52484	159.27102	197.27875	13.20281	0.1838466	0.20359153	2.8617361	21	3 9.4	20.1
157291 2004 RH_{309}	16.2	X	247.21566	5.49338	43.73547	6.06337	0.0712024	0.22433315	2.6825042	21	7 14.5	20.1
157292 2004 RN_{312}	15.0	X	45.01990	329.44956	19.63414	9.62444	0.0748357	0.17899107	3.1182802	21	11 29.6	19.4
157293 2004 RU_{321}	15.9	X	357.95290	29.98085	252.67248	2.46647	0.0454728	0.22161646	2.7043820	21	7 1.3	19.2
157294 2004 RP_{323}	15.3	X	226.44494	196.82057	217.84557	14.07725	0.1178871	0.21852252	2.7298487	21	6 20.2	19.6
157295 2004 RQ_{323}	15.5	X	342.94415	12.33213	276.92823	8.08723	0.0919111	0.21965589	2.7204504	21	6 14.6	18.8
157296 2004 RG_{334}	15.7	X	254.91609	43.98718	41.12065	10.62095	0.0202186	0.23209433	2.6223643	21	9 23.2	19.3
157297 2004 RZ_{334}	16.7	X	85.60310	272.15146	39.85389	5.51669	0.1811208	0.24465506	2.5318225	21	12 26.3	20.6
157298 2004 RT_{337}	15.8	X	276.64991	154.31229	307.91176	0.72634	0.0751002	0.17502182	3.1652492	21	10 23.4	19.9
157299 2004 SV_{14}	16.1	X	6.66258	180.54921	127.36819	8.69975	0.1583209	0.22899471	2.6459751	21	8 29.3	18.7
157300 2004 SD_{15}	16.6	X	180.81534	191.91891	119.48147	7.72483	0.2018855	0.25847695	2.4407399	21	—	—
157301 Loreena	16.3	X	302.32564	330.33605	16.86120	3.42925	0.1137465	0.22403814	2.6848585	21	6 27.8	19.6
157302 2004 SZ_{21}	16.4	X	96.59010	39.73459	155.88354	2.56518	0.0206716	0.22508302	2.6765430	21	7 20.5	20.0
157303 2004 SK_{22}	15.6	X	98.76842	55.50110	213.45184	4.50911	0.0688188	0.23462894	2.6034445	21	11 5.3	19.1
157304 2004 SR_{24}	16.4	X	346.92523	143.03128	185.37947	3.87576	0.1950813	0.22911130	2.6450774	21	8 14.8	18.6
157305 2004 SA_{26}	17.1	X	187.28019	44.09001	261.71376	1.46097	0.1962523	0.25679535	2.4513836	21	—	—
157306 2004 SZ_{27}	16.4	X	227.22998	144.71653	160.26723	2.31589	0.0492958	0.20608990	2.8385611	21	2 9.2	20.5
157307 2004 SA_{29}	16.6	X	8.51465	96.36081	271.85824	1.20813	0.1181071	0.23687723	2.5869449	21	11 22.3	19.3
157308 2004 SH_{29}	16.2	X	325.88415	124.29168	227.47635	0.73815	0.0957275	0.22742792	2.6581135	21	8 14.2	19.0
157309 2004 ST_{29}	16.1	X	108.74318	252.08040	7.04729	3.86027	0.0692205	0.23662853	2.5887572	21	11 3.4	19.7
157310 2004 SO_{30}	15.9	X	247.57261	25.23479	15.87462	1.77554	0.0857469	0.22109259	2.7086523	21	7 1.3	19.7
157311 2004 SC_{31}	16.1	X	306.60404	148.96314	176.43481	6.53478	0.0683621	0.22001897	2.7174567	21	6 11.2	19.7
157312 2004 SU_{32}	15.7	X	264.63795	319.57922	36.39791	6.65065	0.0742991	0.21672581	2.7449154	21	5 23.9	19.6
157313 2004 SX_{34}	16.2	X	69.06752	263.44774	72.72162	3.83686	0.1329232	0.24146856	2.5540476	21	—	—
157314 2004 SD_{37}	15.7	X	293.94303	279.81330	192.30589	10.29723	0.1064033	0.18409076	3.0604226	21	11 27.7	19.7
157315 2004 SP_{38}	15.3	X	345.22597	315.82007	74.28255	2.27985	0.1536094	0.17538813	3.1608405	21	11 1.6	19.0
157316 2004 SG_{41}	16.3	X	111.61730	118.28679	184.17404	3.55201	0.2419663	0.24496771	2.5296678	21	—	—
157317 2004 SK_{45}	16.3	X	124.49200	327.80048	313.82018	4.10525	0.1274731	0.24355436	2.5394448	21	12 22.8	20.1
157318 2004 SA_{47}	16.1	X	40.23790	25.53357	254.72542	2.22227	0.1011301	0.22910335	2.6451385	21	9 7.1	19.3
157319 2004 ST_{47}	15.4	X	73.05909	355.10169	289.26804	8.47023	0.1910531	0.23357014	2.6113064	21	11 6.9	19.4
157320 2004 SY_{48}	16.0	X	140.72191	323.61449	59.95637	3.04047	0.0767410	0.20368603	2.8608509	21	2 13.1	20.1
157321 2004 SN_{52}	16.4	X	115.88211	96.73994	195.27686	9.62969	0.1237704	0.24282690	2.5445140	21	12 26.2	20.5
157322 2004 SJ_{54}	14.8	X	358.15469	203.31190	189.56724	16.81289	0.0889070	0.17650144	3.1475348	21	11 24.5	19.0
157323 2004 SU_{57}	15.4	X	61.34594	75.69183	208.90008	12.86511	0.1445656	0.23088750	2.6314943	21	10 20.7	19.0
157324 2004 TN_{6}	15.7	X	12.47468	248.39779	90.72222	15.81176	0.1641171	0.23404030	2.6078080	21	11 2.0	18.9
157325 2004 TF_{7}	14.8	X	40.78027	229.19634	119.71854	10.54342	0.1152836	0.18029451	3.1032330	21	12 3.8	19.1
157326 2004 TM_{7}	14.7	X	28.09078	220.57566	158.62817	16.79358	0.1089877	0.18167132	3.0875344	21	12 22.4	19.1
157327 2004 TK_{8}	16.1	X	188.53537	8.27873	316.41849	1.05570	0.0688695	0.20067044	2.8894407	21	1 23.8	20.5
157328 2004 TV_{12}	15.0	X	14.98152	216.41955	179.31714	12.44058	0.1349878	0.18089314	3.0963829	21	12 26.4	19.2
157329 2004 TM_{16}	15.2	X	311.81197	296.10824	72.31694	12.95322	0.0963115	0.22387784	2.6861400	21	8 20.3	18.7
157330 2004 TS_{16}	16.7	X	240.54796	320.39096	20.38377	3.75199	0.0992682	0.21245491	2.7815799	21	4 5.2	21.0
157331 2004 TY_{19}	15.4	X	7.94187	206.54744	25.18969	9.35856	0.0999439	0.21194124	2.7860725	21	5 4.9	18.7
157332 Lynette	16.1	X	82.71592	161.71420	140.62687	5.70623	0.1581039	0.23765273	2.5813141	21	12 9.3	20.1
157333 2004 TH_{21}	16.4	X	65.61775	290.06886	26.38677	15.21870	0.1443062	0.24036414	2.5618652	21	12 3.6	20.2
157334 2004 TO_{24}	16.2	X	177.12479	234.87886	204.48773	5.80246	0.0217807	0.21641841	2.7475140	21	5 31.4	20.0
157335 2004 TL_{30}	16.0	X	127.98020	179.87243	47.03762	3.35992	0.1564743	0.23454078	2.6040969	21	10 21.0	20.2
157336 2004 TN_{30}	15.7	X	2.68812	39.30918	53.87863	3.33973	0.0703417	0.18920790	3.0049913	21	—	—
157337 2004 TE_{43}	16.3	X	71.06656	37.93995	256.18246	3.09476	0.1942887	0.23538483	2.5978679	21	11 19.9	20.2
157338 2004 TZ_{43}	15.7	X	12.31820	81.20277	308.19819	1.75781	0.1884043	0.17831218	3.1261901	21	12 21.2	19.5
157339 2004 TP_{45}	16.0	X	120.39111	41.80989	311.01336	1.16706	0.0997881	0.19131657	2.9828700	21	—	—
157340 2004 TT_{45}	15.0	X	254.74679	164.80701	28.46582	21.31627	0.1011422	0.18548988	3.0450136	21	—	—
157341 2004 TU_{45}	15.8	X	359.72612	120.73314	2.54523	2.67376	0.0495721	0.19103619	2.9857879	21	—	—
157342 2004 TL_{55}	15.9	X	143.87711	177.71087	175.21917	1.97067	0.1108305	0.19425283	2.9527351	21	1 14.8	20.3
157343 2004 TU_{61}	16.0	X	265.56012	189.71555	176.05679	5.02433	0.1272557	0.21974985	2.7196749	21	6 1.5	19.9
157344 2004 TZ_{64}	15.5	X	2.94479	191.99566	176.62960	4.14781	0.1270724	0.17497182	3.1658523	21	11 3.1	19.2
157345 2004 TS_{65}	16.0	X	23.06494	260.57426	59.21098	4.02359	0.1220945	0.23201688	2.6229479	21	10 11.4	19.0
157346 2004 TB_{67}	15.4	X	26.13855	267.45291	140.21227	6.76907	0.1832571	0.18312276	3.0711981	21	—	—
157347 2004 TQ_{67}	15.0	X	11.96166	294.82754	99.86337	10.46383	0.0787256	0.17965124	3.1106363	21	12 14.8	19.0
157348 2004 TX_{67}	14.4	X	229.90547	47.80063	71.64713	12.47225	0.0586611	0.16967310	3.2314248	21	9 26.5	19.3
157349 2004 TA_{68}	15.5	X	279.40772	324.27639	52.80953	14.60000	0.1147412	0.22151708	2.7051908	21	7 5.9	19.3
157350 2004 TB_{69}	14.8	X	336.55695	256.52482	165.45289	10.72974	0.0962366	0.17937193	3.1138646	21	11 29.6	18.9
157351 2004 TS_{69}	16.0	X	359.42273	304.90862	30.51654	14.38140	0.1660595	0.23083876	2.6318647	21	9 29.5	18.7
157352 2004 TU_{75}	15.7	X	248.67365	288.45057	86.51188	2.83589	0.1100691	0.21532159	2.7568364	21	5 26.5	19.6
157353 2004 TW_{75}	15.6	X	255.29268	342.41262	46.15093	9.91885	0.1557257	0.21810376	2.7333418	21	6 14.0	19.8
157354 2004 TX_{81}	15.4	X	295.88523	36.51344	356.97473	5.82590	0.0939023	0.16763208	3.2576015	21	8 22.3	19.8
157355 2004 TB_{91}	16.0	X	69.70159	316.32594	348.21879	3.13660	0.1861615	0.23717783	2.5847586	21	11 30.3	19.9
157356 2004 TH_{94}	15.7	X	79.67216	185.56473	206.01983	10.81257	0.0635048	0.19070127	2.9892827	21	—	—
157357 2004 TZ_{96}	15.8	X	297.52444	264.27975	39.52835	4.34978	0.0793110	0.21374714	2.7703576	21	4 28.2	19.3
157358 2004 TZ_{106}	15.9	X	80.56114	216.57680	156.51741	1.29815	0.1408853	0.18945827	3.0023432	21	—	—
157359 2004 TV_{107}	15.9	X	261.50147	210.23515	131.74564	2.53020	0.0907157	0.21489945	2.7604455	21	5 1.8	19.8
157360 2004 TJ_{108}	15.1	X	160.08095	284.06693	65.49574	10.80546	0.1061644	0.19879374	2.9075972	21	1 29.4	19.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
157361 2004 TV_{109}	16.3	X	59.73247	276.14977	73.22307	3.23109	0.2274534	0.24055409	2.5605163	21	—	—
157362 2004 TQ_{113}	15.8	X	112.39016	261.72744	149.03383	2.62495	0.0973252	0.19681546	2.9270484	21	2 15.6	19.6
157363 2004 TX_{113}	15.3	X	324.00949	296.92668	33.95174	11.78091	0.2508896	0.22299841	2.6931975	21	6 18.2	18.2
157364 2004 TK_{114}	15.5	X	23.44484	249.96331	147.15488	1.92769	0.0878795	0.18244786	3.0787673	21	—	—
157365 2004 TV_{118}	14.9	X	296.00096	37.52249	59.54501	19.89019	0.1070724	0.17466878	3.1695129	21	11 11.1	19.1
157366 2004 TL_{120}	15.1	X	79.58899	346.37365	253.12395	10.81980	0.1286614	0.22723959	2.6595820	21	9 6.0	19.0
157367 2004 TF_{125}	15.9	X	145.99861	0.61278	24.98314	2.15724	0.0872513	0.20261733	2.8709017	21	2 22.4	20.1
157368 2004 TH_{127}	15.3	X	2.02511	264.48957	114.58315	6.04608	0.1764996	0.17694490	3.1422737	21	11 20.5	18.9
157369 2004 TE_{128}	15.2	X	211.62706	304.45688	62.61402	8.28400	0.1766783	0.21042414	2.7994476	21	4 9.3	19.9
157370 2004 TH_{128}	16.3	X	192.51561	258.13801	129.48493	4.54095	0.1076849	0.20989834	2.8041208	21	4 15.9	20.7
157371 2004 TZ_{130}	15.8	X	32.63799	218.52830	113.76705	9.86498	0.2480030	0.23623105	2.5916602	21	12 2.8	19.1
157372 2004 TW_{134}	17.1	X	218.89232	61.28474	233.59283	1.36563	0.1931458	0.26242904	2.4161735	21	1 10.0	21.0
157373 2004 TC_{135}	15.9	X	255.62244	200.34257	154.04402	6.50844	0.0473785	0.21652290	2.7466300	21	5 17.1	19.8
157374 2004 TS_{138}	15.1	X	272.08081	244.38711	286.89569	8.72235	0.0140260	0.18781507	3.0198296	21	—	—
157375 2004 TK_{140}	14.5	X	2.20406	144.42858	295.74602	1.59461	0.2219618	0.12578414	3.9450464	21	—	—
157376 2004 TN_{155}	16.1	X	169.61782	137.05619	166.97914	1.19185	0.0369581	0.19272097	2.9683612	21	—	—
157377 2004 TG_{158}	14.9	X	253.40527	77.57390	16.12207	6.80730	0.0640524	0.16716397	3.2636802	21	9 16.4	19.5
157378 2004 TU_{163}	16.0	X	299.96646	210.07410	100.59987	1.81528	0.0563234	0.21318095	2.7752607	21	5 14.7	19.7
157379 2004 TV_{164}	15.6	X	15.17719	256.47767	48.10491	9.68716	0.0802231	0.22450979	2.6810970	21	9 5.4	19.0
157380 2004 TF_{168}	15.6	X	163.39122	265.15502	65.63406	3.01312	0.0846950	0.19634108	2.9317613	21	1 6.7	19.8
157381 2004 TN_{169}	16.0	X	54.64932	142.43822	168.46157	4.71523	0.2322608	0.23669317	2.5882858	21	11 29.3	19.7
157382 2004 TU_{169}	16.0	X	32.67219	204.56817	102.86830	4.28341	0.0768492	0.22953671	2.6418082	21	10 3.5	19.3
157383 2004 TV_{170}	15.2	X	43.01486	209.57026	39.23357	13.88256	0.0831706	0.22127566	2.7071581	21	8 1.8	18.9
157384 2004 TS_{172}	15.4	X	66.99884	13.09994	275.16487	9.34406	0.1899127	0.23242401	2.6198840	21	11 5.2	19.3
157385 2004 TX_{174}	17.1	X	228.55840	228.02366	53.50833	1.93618	0.1631938	0.26043178	2.4285109	21	1 2.7	21.0
157386 2004 TQ_{180}	16.0	X	309.97041	240.23375	41.49480	1.86347	0.1107128	0.21531258	2.7569133	21	4 11.4	19.5
157387 2004 TC_{184}	15.4	X	329.33097	267.19511	206.75719	11.92376	0.1482426	0.18517202	3.0484972	21	—	—
157388 2004 TC_{185}	16.4	X	43.73687	27.56130	276.72184	1.34564	0.1424627	0.23316694	2.6143159	21	10 22.7	19.8
157389 2004 TL_{202}	15.8	X	318.96641	319.37794	19.93798	5.15863	0.1702890	0.22082612	2.7108309	21	7 6.2	18.8
157390 2004 TJ_{203}	15.2	X	68.05143	350.46391	20.21940	3.53266	0.1204891	0.18314169	3.0709865	21	—	—
157391 2004 TM_{205}	14.9	X	213.03366	160.93952	47.79761	13.03112	0.0291801	0.17878912	3.1206280	21	12 20.0	19.5
157392 2004 TR_{207}	16.1	X	50.10510	215.94510	165.53810	1.16127	0.0938012	0.18151012	3.0893622	21	—	—
157393 2004 TM_{209}	16.7	X	16.26686	287.23383	29.12991	1.45816	0.1488076	0.23112858	2.6296641	21	9 27.2	19.4
157394 2004 TT_{211}	15.6	X	324.78778	292.26099	18.69046	8.08353	0.1258115	0.21891562	2.7265798	21	6 9.7	18.9
157395 2004 TX_{215}	15.9	X	8.12263	156.23362	225.75468	0.55627	0.1041506	0.17826885	3.1266966	21	11 25.5	19.8
157396 Vansevicius	15.0	X	332.74818	105.97832	15.17067	9.54404	0.0291128	0.18533142	3.0467490	21	—	—
157397 2004 TY_{220}	16.0	X	164.68531	267.15238	98.72328	3.17681	0.0818825	0.20338214	2.8636999	21	2 18.3	20.2
157398 2004 TV_{221}	14.6	X	340.84826	258.26072	159.95236	14.39948	0.1576471	0.17770547	3.1333014	21	12 3.3	18.4
157399 2004 TH_{234}	15.7	X	338.22258	61.80869	12.41885	2.67135	0.0673372	0.17956422	3.1116412	21	12 14.7	19.7
157400 2004 TH_{238}	15.4	X	26.60491	50.14653	199.28297	13.65189	0.0960522	0.21917936	2.7243921	21	7 1.3	18.9
157401 2004 TY_{240}	14.4	X	197.26134	286.00427	226.63868	22.27172	0.0919349	0.16928832	3.2363195	21	9 15.1	19.7
157402 2004 TH_{241}	15.6	X	354.68132	16.03112	355.02678	5.72719	0.1210424	0.17285806	3.1916086	21	10 20.1	19.5
157403 2004 TS_{242}	14.8	X	21.67247	173.30699	156.18439	29.14735	0.1812030	0.17561777	3.1580845	21	10 25.5	19.1
157404 2004 TZ_{245}	15.7	X	247.81747	276.74754	186.51275	4.51522	0.1085375	0.17021456	3.2245683	21	9 13.6	20.3
157405 2004 TH_{247}	15.3	X	285.79893	237.91200	151.33994	14.17467	0.1548703	0.22357587	2.6885581	21	7 23.8	19.0
157406 2004 TK_{249}	15.5	X	309.24605	70.89809	28.71762	1.64168	0.0664485	0.17949436	3.1124485	21	12 5.2	19.5
157407 2004 TM_{250}	15.7	X	92.86924	162.80243	146.65267	14.69487	0.2847600	0.24267565	2.5455712	21	—	—
157408 2004 TF_{258}	17.0	X	97.32933	80.59290	232.98684	2.53626	0.1859787	0.24294474	2.5436912	21	—	—
157409 2004 TP_{262}	15.0	X	59.76665	311.66000	54.76339	10.40777	0.0616330	0.18158637	3.0884973	21	—	—
157410 2004 TP_{270}	14.8	X	311.04373	75.80967	42.89002	12.41208	0.0523634	0.18206255	3.0831097	21	—	—
157411 2004 TZ_{270}	15.3	X	193.79129	240.32209	73.65047	3.00900	0.0298426	0.19596536	2.9355074	21	1 16.1	19.4
157412 2004 TX_{276}	16.0	X	100.10226	276.73967	194.34501	1.57871	0.0263068	0.20426617	2.8554316	21	4 5.6	20.0
157413 2004 TP_{279}	14.9	X	120.29605	281.35284	15.32311	9.05417	0.0259356	0.18197487	3.0840999	21	12 20.8	19.5
157414 2004 TU_{285}	15.0	X	61.46112	353.01991	22.01241	12.34073	0.1381458	0.18279309	3.0748897	21	—	—
157415 2004 TD_{286}	16.2	X	69.90117	327.95516	3.69133	2.14457	0.2030624	0.23980210	2.5658665	21	—	—
157416 2004 TL_{286}	15.4	X	314.89104	127.46096	43.48813	11.17092	0.0670408	0.19014451	2.9951151	21	—	—
157417 2004 TY_{293}	15.6	X	213.44052	134.76005	32.68334	6.32817	0.1186216	0.17302434	3.1895635	21	10 23.8	20.3
157418 2004 TO_{294}	15.8	X	153.46347	219.60278	143.36203	2.39656	0.1324202	0.19772451	2.9180700	21	2 7.4	20.1
157419 2004 TJ_{296}	15.0	X	261.13284	90.52098	45.80829	9.67096	0.0443966	0.17484380	3.1673974	21	11 18.2	19.4
157420 2004 TC_{299}	15.2	X	342.92644	270.79104	141.93367	1.80632	0.1403185	0.17657923	3.1466104	21	11 26.8	18.8
157421 Carolpercy	17.0	X	124.61126	23.65404	278.46968	0.43654	0.1578902	0.24644503	2.5195482	21	—	—
157422 2004 TP_{306}	15.1	X	332.14318	183.36742	321.35706	9.51231	0.0312362	0.19249318	2.9707024	21	—	—
157423 2004 TZ_{309}	16.2	X	301.53077	150.22447	52.01193	2.52552	0.0421729	0.19710452	2.9241860	21	1 3.7	20.3
157424 2004 TN_{328}	16.0	X	306.62358	198.41055	122.88323	9.04921	0.1427557	0.21942239	2.7223800	21	5 26.8	19.5
157425 2004 TS_{328}	16.4	X	71.07190	227.11985	68.39473	5.08913	0.1690623	0.23863812	2.5742033	21	11 19.8	20.1
157426 2004 TF_{333}	16.3	X	123.68187	257.29008	41.49629	7.95813	0.2503669	0.24412119	2.5355123	21	—	—
157427 2004 TN_{334}	17.0	X	136.17224	122.16195	146.29835	0.50361	0.1217949	0.24583035	2.5237464	21	12 18.1	20.9
157428 2004 TS_{334}	16.3	X	192.09460	242.31615	122.54503	0.81820	0.0867553	0.20936813	2.8088529	21	3 16.5	20.6
157429 2004 TV_{340}	15.2	X	182.75923	271.02131	26.97147	8.14007	0.1148375	0.19250916	2.9705380	21	—	—
157430 2004 TP_{341}	15.5	X	114.23819	297.36997	6.22044	0.71507	0.1657334	0.18351798	3.0667871	21	12 31.3	20.6
157431 2004 TA_{343}	14.9	X	210.02546	313.83925	220.18528	6.65088	0.1044942	0.17287851	3.1913569	21	10 29.0	19.8
157432 2004 TM_{344}	15.2	X	323.09341	218.76433	207.31142	4.54592	0.1654022	0.17363236	3.1821131	21	11 7.7	18.8
157433 2004 TT_{356}	15.1	X	288.22761	204.36802	117.26652	13.55308	0.0550106	0.21512307	2.7585322	21	5 17.8	19.1
157434 2004 TR_{358}	15.4	X	200.37273	53.62281	132.98472	1.96884	0.1570814	0.17668411	3.1453650	21	10 31.9	20.5
157435 2004 TH_{361}	15.5	X	241.57365	203.04888	353.86250	0.95974	0.0518268	0.18518696	3.0483332	21	—	—
157436 2004 UT_{3}	15.1	X	172.00775	232.51577	107.27521	14.51755	0.2063535	0.19794227	2.9159295	21	2 4.0	20.0
157437 2004 VU_{3}	14.7	X	243.18714	117.61236	48.11160	16.99112	0.0449736	0.17810803	3.1285785	21	11 30.7	19.3
157438 2004 VG_{5}	14.8	X	91.51456	89.75026	245.62715	11.18963	0.0493828	0.18179492	3.0861348	21	—	—
157439 2004 VW_{6}	15.8	X	17.20312	78.60256	208.93585	6.47785	0.1244103	0.22068712	2.7119690	21	8 10.8	19.0
157440 2004 VZ_{8}	16.0	X	77.45768	249.15372	95.89202	5.76001	0.3190765	0.24304093	2.5430200	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
157441 2004 VO_{11}	15.8	X	195.07747	324.45096	83.37370	1.72994	0.0720689	0.21017724	2.8016396	21	5 12.1	20.0
157442 2004 VZ_{13}	14.8	X	297.62162	241.31226	68.04682	11.91483	0.1229212	0.21143152	2.7905484	21	5 2.3	18.6
157443 2004 VM_{17}	15.7	X	184.15907	220.76137	160.43412	2.16240	0.0569585	0.20405303	2.8574196	21	3 27.9	19.7
157444 2004 VV_{17}	15.3	X	319.30271	262.55056	47.56335	15.04894	0.1148396	0.21706180	2.7420820	21	5 30.9	18.7
157445 2004 VG_{22}	16.2	X	75.75966	125.58536	201.74101	3.21268	0.2623242	0.23935755	2.5690425	21	—	—
157446 2004 VK_{23}	15.5	X	174.30934	174.61032	208.39519	4.66664	0.0914991	0.20188624	2.8778284	21	3 19.8	19.8
157447 2004 VM_{23}	15.8	X	342.36797	306.19031	44.77931	3.08898	0.2036243	0.22653108	2.6651246	21	9 11.8	18.1
157448 2004 VV_{39}	15.9	X	298.59761	318.18972	171.11252	2.15442	0.0526923	0.17943998	3.1130773	21	12 28.1	20.1
157449 2004 VH_{52}	14.8	X	22.97462	201.73681	211.45606	10.91883	0.1280880	0.18139047	3.0907206	21	—	—
157450 2004 VF_{53}	15.0	X	125.10159	330.45477	57.38509	5.39453	0.0768482	0.19352737	2.9601095	21	2 2.5	19.2
157451 2004 VP_{53}	15.2	X	91.06738	229.82542	98.99364	3.67797	0.0951269	0.18064460	3.0992223	21	—	—
157452 2004 VJ_{63}	16.1	X	95.57597	182.71145	197.22109	1.25206	0.1237091	0.18930845	3.0039270	21	—	—
157453 2004 VG_{72}	14.6	X	210.25331	176.94358	65.88961	8.58638	0.1109421	0.18344383	3.0676135	21	—	—
157454 2004 VU_{78}	15.8	X	291.25075	3.45215	152.12301	0.59505	0.1179847	0.18316084	3.0707725	21	—	—
157455 2004 WV	15.0	X	224.07850	134.08602	70.13235	14.61336	0.0032817	0.18005797	3.1059502	21	12 31.8	19.5
157456 Pivatte	16.2	X	175.62384	134.30162	227.32245	0.99732	0.0771581	0.19888063	2.9067503	21	2 23.6	20.6
157457 2004 WF_{11}	15.6	X	167.44986	157.92611	223.26213	1.10495	0.0684542	0.19868624	2.9086459	21	3 9.9	19.8
157458 2004 XP_{2}	14.9	X	58.79412	342.10301	31.56275	9.95243	0.0888101	0.18040516	3.1019639	21	—	—
157459 2004 XX_{20}	14.9	X	350.01617	4.29930	68.94185	13.28753	0.1173411	0.17804650	3.1292993	21	—	—
157460 2004 XC_{28}	14.4	X	93.85910	223.55299	82.01778	17.02902	0.1176844	0.17315511	3.1879574	21	12 9.9	19.3
157461 2004 XR_{32}	14.5	X	163.98629	202.33947	79.08320	12.32077	0.0970826	0.18049724	3.1009089	21	—	—
157462 2004 XO_{68}	15.1	X	23.47068	166.41097	193.01032	16.11681	0.0441030	0.17265727	3.1940825	21	11 13.4	19.6
157463 2004 XM_{77}	14.9	X	293.78124	242.52862	235.97347	8.26964	0.0478409	0.17526154	3.1623624	21	12 8.4	19.2
157464 2004 XQ_{78}	15.2	X	155.03928	294.36732	62.99261	2.36536	0.0372718	0.19083700	2.9878652	21	1 25.8	19.6
157465 2004 XR_{87}	15.5	X	176.05166	243.16832	94.36476	3.71865	0.1031790	0.19489021	2.9462937	21	1 29.7	20.0
157466 2004 XQ_{105}	14.4	X	173.98417	210.53052	56.30766	21.10441	0.0992884	0.18098367	3.0953502	21	—	—
157467 2004 XR_{172}	15.0	X	2.33515	242.73077	169.77534	18.95339	0.0680701	0.17703030	3.1412631	21	12 21.9	19.6
157468 2004 XS_{184}	13.1	X	81.20449	191.47244	336.97672	9.46704	0.0280570	0.08293112	5.2078407	21	5 29.8	20.1
157469 2005 AP_{31}	12.5	X	6.85400	148.26075	107.46758	24.59750	0.0841133	0.08384715	5.1698408	21	6 15.6	19.0
157470 2005 AG_{61}	13.4	X	81.27589	161.96304	30.82586	4.73582	0.0134297	0.08269695	5.2176674	21	6 26.7	20.3
157471 2005 AX_{71}	13.6	X	275.57980	1.98482	341.88488	3.31729	0.1155420	0.08272551	5.2164665	21	5 23.3	20.6
157472 2005 PM_{1}	15.6	X	202.38139	222.39625	132.74377	12.74927	0.1999844	0.22431598	2.6826411	21	3 17.2	20.3
157473 Emuno	16.7	X	138.22767	275.42857	87.23175	4.61189	0.1795956	0.27424189	2.3462819	21	1 14.4	19.8
157474 2005 QX_{18}	16.6	X	283.23144	244.51122	164.71213	15.27516	0.1325859	0.24274482	2.5450876	21	8 21.5	19.8
157475 2005 QH_{24}	17.4	X	114.06498	23.07516	44.44779	2.87055	0.1784095	0.27822900	2.3238127	21	3 11.6	20.1
157476 2005 QE_{37}	16.7	X	69.32096	83.80559	318.80437	2.67782	0.2283993	0.26644880	2.3918111	21	—	—
157477 2005 QE_{51}	16.4	X	217.13755	14.44463	325.04263	6.92207	0.1476746	0.28566006	2.2833353	21	2 27.9	19.8
157478 2005 QO_{59}	15.7	X	103.54042	200.06565	193.96471	8.05174	0.2274334	0.20903426	2.8118430	21	1 29.2	19.5
157479 2005 QQ_{70}	16.4	X	84.45320	218.81055	167.73701	5.77436	0.2304699	0.26756608	2.3851481	21	—	—
157480 2005 QD_{71}	15.9	X	225.34681	33.95345	1.59574	12.25420	0.2985777	0.22937947	2.6430153	21	5 11.9	20.8
157481 2005 QS_{77}	17.2	X	13.00129	41.95648	344.76026	1.41403	0.2045120	0.25527496	2.4611074	21	—	—
157482 2005 QS_{82}	16.7	X	252.09619	352.09288	33.68202	6.62923	0.1803451	0.29514865	2.2341321	21	6 1.5	19.9
157483 2005 QB_{98}	17.0	X	82.40993	105.24792	356.22808	6.33278	0.1347183	0.28213065	2.3023386	21	3 3.0	19.2
157484 2005 QC_{119}	17.3	X	258.10926	95.50359	349.99845	3.52152	0.1788450	0.24570067	2.5246344	21	8 31.3	20.7
157485 2005 QN_{136}	16.8	X	250.77287	32.13353	68.60758	1.98674	0.1142267	0.24603121	2.5223726	21	9 21.8	20.2
157486 2005 QB_{161}	17.4	X	301.62206	284.50281	125.75515	3.35158	0.0876191	0.30948186	2.1646079	21	10 12.1	19.4
157487 2005 QG_{175}	16.3	X	215.64125	48.02307	6.65876	12.70508	0.1747906	0.23097923	2.6307975	21	6 3.8	20.8
157488 2005 QL_{175}	16.8	X	143.35522	106.96954	311.94744	2.85593	0.1163968	0.28332667	2.2958547	21	3 24.3	19.9
157489 2005 QW_{175}	17.1	X	158.00812	19.74841	52.64228	3.11635	0.1240497	0.28759458	2.2730845	21	4 30.5	20.2
157490 2005 RR_{8}	16.8	X	62.57966	49.37430	359.27235	2.07621	0.1660611	0.26664700	2.3906257	21	—	—
157491 Rüdigerkollar	15.7	X	340.52987	48.27437	341.66087	3.31639	0.1920355	0.18395053	3.0619776	21	10 23.8	18.8
157492 2005 RY_{24}	16.5	X	356.72359	317.69217	26.66485	4.24844	0.2274663	0.30669181	2.1777161	21	10 27.1	17.6
157493 2005 RL_{26}	17.3	X	91.06561	166.24324	247.32416	0.86061	0.1834057	0.27289736	2.3539821	21	1 15.5	19.6
157494 Durham	16.1	X	318.10013	21.19665	28.08238	4.70073	0.2550196	0.24359257	2.5391793	21	10 13.0	17.6
157495 2005 SE_{3}	17.5	X	22.91482	32.38696	337.61129	1.69263	0.1241102	0.31753982	2.1278316	21	—	—
157496 2005 SH_{3}	16.8	X	80.38185	123.80841	304.61879	1.58754	0.1815394	0.27040845	2.3684045	21	1 18.1	18.7
157497 2005 SU_{9}	16.3	X	185.92259	236.13173	194.82400	13.01068	0.2506337	0.22419852	2.6835780	21	6 1.4	21.2
157498 2005 SL_{13}	17.1	X	26.31368	49.80276	13.30225	1.04396	0.1696404	0.26126430	2.4233492	21	—	—
157499 2005 SE_{20}	16.9	X	89.46120	285.00182	143.27201	3.63362	0.2134086	0.27091028	2.3654788	21	2 8.9	19.0
157500 2005 ST_{20}	17.1	X	252.63272	1.01756	43.76367	5.24394	0.2332845	0.29646359	2.2275210	21	6 23.4	20.4
157501 2005 SD_{24}	17.0	X	229.21364	311.46195	149.83703	5.47293	0.0754339	0.30491425	2.1861716	21	9 4.6	19.4
157502 2005 ST_{34}	16.2	X	66.89269	129.76703	142.99390	4.81157	0.0368049	0.24400616	2.5363091	21	9 29.5	19.5
157503 2005 SU_{36}	17.6	X	194.15205	283.24178	182.07086	4.03416	0.1300036	0.29795962	2.2200586	21	7 22.6	20.9
157504 2005 SB_{41}	17.1	X	90.19557	244.34105	183.56366	2.07887	0.1863616	0.27293895	2.3537430	21	2 3.9	19.5
157505 2005 ST_{50}	16.5	X	217.98094	184.97810	198.94106	6.04116	0.1147879	0.28893769	2.2660349	21	4 30.1	19.6
157506 2005 SD_{53}	17.3	X	3.46800	103.85628	336.38269	1.63119	0.1913728	0.26053369	2.4278776	21	—	—
157507 2005 SZ_{56}	17.5	X	257.91467	232.81010	212.23231	4.76022	0.0193001	0.30797978	2.1716404	21	9 30.1	19.9
157508 2005 SK_{73}	16.8	X	276.91604	359.93035	37.89252	7.79454	0.0896371	0.30043721	2.2078365	21	8 11.2	19.3
157509 2005 SM_{73}	16.7	X	64.76424	342.32266	59.92734	3.84372	0.1741351	0.26357865	2.4091429	21	—	—
157510 2005 SQ_{84}	16.0	X	272.27363	219.62754	207.31454	0.47557	0.1830709	0.17759923	3.1345509	21	8 19.1	20.4
157511 2005 SD_{85}	17.6	X	283.67973	86.88373	321.54326	0.28341	0.0625997	0.30483706	2.1865405	21	9 8.5	19.8
157512 2005 SX_{93}	16.2	X	157.28721	112.66377	27.11317	14.21217	0.1016592	0.23243874	2.6197733	21	8 3.6	20.4
157513 2005 SD_{105}	16.6	X	43.58592	262.45802	194.98251	3.49227	0.2050297	0.26660454	2.3908795	21	—	—
157514 2005 SM_{105}	16.4	X	99.98852	338.34723	58.50988	7.56264	0.1143741	0.26913488	2.3758703	21	—	—
157515 2005 ST_{105}	15.2	X	175.22725	251.17802	199.01675	12.48372	0.1130147	0.22548064	2.6733955	21	6 13.7	19.5
157516 2005 SL_{122}	16.5	X	275.71398	175.96630	205.52367	7.21381	0.1733649	0.29919037	2.2139662	21	6 26.2	19.2
157517 2005 SV_{141}	17.6	X	41.26059	319.94470	142.46850	2.64169	0.1715741	0.26960665	2.3730979	21	—	—
157518 2005 SJ_{148}	16.6	X	235.05654	94.85923	44.58689	5.43664	0.2046182	0.24514585	2.5284421	21	10 11.8	20.3
157519 2005 SF_{157}	17.3	X	71.80583	263.65926	177.35878	3.52518	0.1785639	0.27081957	2.3660070	21	1 18.3	19.2
157520 2005 SF_{159}	17.0	X	203.73644	76.46935	289.23528	1.94133	0.1903750	0.28392133	2.2926480	21	3 21.2	20.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
157521 2005 SK_{161}	17.1	X	10.25204	204.81641	276.23698	0.59723	0.1268352	0.26917066	2.3756597	21	—	—
157522 2005 SV_{173}	16.9	X	113.93715	36.78492	31.68161	4.33541	0.1707429	0.27893141	2.3199098	21	3 11.8	19.6
157523 2005 SC_{181}	16.6	X	243.83942	199.21194	231.69399	4.74654	0.1183523	0.30021092	2.2089458	21	8 1.9	19.5
157524 2005 SF_{190}	17.0	X	107.23205	0.99438	76.53150	1.64402	0.1826086	0.27658849	2.3329924	21	3 16.6	19.8
157525 2005 SM_{190}	16.1	X	197.24971	219.48912	156.45471	5.71934	0.0921879	0.22135704	2.7064945	21	4 4.6	20.2
157526 2005 SH_{215}	16.4	X	271.98009	47.41548	359.16343	11.69675	0.1782827	0.23780401	2.5802192	21	7 30.6	20.0
157527 2005 SU_{265}	17.7	X	95.96159	127.00519	285.43248	0.59355	0.1780031	0.27364759	2.3496777	21	1 21.6	20.0
157528 2005 SX_{270}	17.1	X	135.41084	205.48784	24.86988	21.12235	0.0911620	0.37615536	1.9006021	21	11 11.9	19.7
157529 2005 TP_{9}	15.7	X	236.15799	34.98063	34.67747	18.26871	0.1704059	0.23318510	2.6141802	21	7 20.3	20.1
157530 2005 TX_{17}	16.8	X	32.00206	287.09878	141.33355	3.03483	0.1522902	0.26295380	2.4129579	21	—	—
157531 2005 TK_{24}	16.9	X	105.95680	233.26300	193.39580	2.04229	0.1578546	0.27374484	2.3491212	21	2 22.5	19.6
157532 2005 TT_{40}	16.1	X	76.50496	305.74677	189.48244	11.85891	0.2444613	0.21567989	2.7537823	21	5 9.7	19.6
157533 Stellamarie	15.7	X	285.39238	281.71519	72.55953	14.23769	0.2244233	0.23181060	2.6245037	21	5 27.0	19.1
157534 Siauliai	17.0	X	71.08248	116.30251	9.77115	6.46780	0.0619720	0.27900995	2.3194744	21	3 11.3	19.4
157535 2005 TF_{54}	15.7	X	193.70528	55.90945	38.63234	13.83793	0.1594137	0.22980402	2.6397592	21	7 8.4	20.2
157536 2005 TT_{106}	16.5	X	65.22824	164.79906	40.22727	6.07002	0.1060809	0.29252941	2.2474482	21	7 3.9	19.0
157537 2005 TO_{130}	17.3	X	324.64520	346.89554	176.10864	3.53985	0.0522954	0.26688685	2.3891932	21	—	—
157538 2005 TB_{133}	14.8	X	280.01590	247.42599	291.17844	10.40832	0.0923683	0.18687415	3.0299577	21	—	—
157539 2005 TD_{177}	16.3	X	182.08949	332.49752	132.40413	3.26103	0.0467685	0.23189109	2.6238964	21	7 10.0	20.0
157540 2005 UO_{3}	16.5	X	93.51361	314.12115	225.43023	5.13825	0.0912639	0.29125588	2.2539948	21	7 4.9	19.3
157541 Wachter	16.2	X	59.72491	100.88336	79.57597	6.31164	0.0364825	0.28345222	2.2951768	21	5 8.8	18.7
157542 2005 UF_{14}	16.4	X	83.57397	49.69887	37.58187	10.59422	0.0197272	0.27454628	2.3445473	21	2 2.8	19.4
157543 2005 UJ_{16}	16.7	X	92.78299	79.78221	87.48484	2.94472	0.0789194	0.28903975	2.2655014	21	6 14.2	19.4
157544 2005 UZ_{18}	16.2	X	241.27279	219.34271	188.02625	3.83936	0.1620321	0.23072544	2.6327264	21	6 23.2	20.3
157545 2005 UC_{19}	17.0	X	42.98377	3.33720	72.86831	3.70570	0.1545460	0.26290284	2.4132697	21	—	—
157546 2005 UT_{25}	17.2	X	170.57300	191.83606	222.13922	1.33037	0.1507791	0.28331730	2.2959054	21	4 20.9	20.6
157547 2005 UV_{26}	17.0	X	262.96869	115.24719	258.49917	2.14085	0.0839373	0.29380100	2.2409588	21	6 11.9	19.7
157548 2005 UE_{42}	16.9	X	289.31890	356.78408	93.87858	1.40157	0.1237362	0.24799327	2.5090508	21	11 2.3	19.4
157549 2005 UH_{53}	16.3	X	8.27983	102.38921	57.37119	7.59943	0.0501508	0.27324171	2.3520040	21	1 20.6	19.1
157550 2005 UM_{59}	17.4	X	271.93755	40.65155	52.24195	4.08966	0.0314893	0.30966488	2.1637550	21	11 1.9	19.8
157551 2005 UZ_{66}	16.8	X	124.62220	28.21406	11.31821	2.11529	0.1851385	0.27190417	2.3597109	21	2 16.9	19.7
157552 2005 UU_{69}	15.4	X	332.13977	57.61671	325.28808	8.81712	0.1379675	0.18265937	3.0763902	21	9 26.5	19.0
157553 2005 UG_{73}	16.7	X	145.73367	208.85672	192.57712	2.34613	0.1427152	0.27669588	2.3323887	21	3 8.6	19.8
157554 2005 UL_{79}	17.0	X	251.72431	229.24855	159.55229	4.12310	0.0757309	0.29247707	2.2477163	21	6 19.9	19.8
157555 2005 UN_{81}	16.7	X	140.44945	256.23026	122.28629	5.17955	0.0792006	0.27517051	2.3410002	21	1 23.2	19.6
157556 2005 UH_{87}	16.8	X	179.62648	308.62842	144.17972	1.89560	0.1321336	0.22775069	2.6556016	21	6 21.6	21.0
157557 2005 UK_{104}	16.3	X	133.09293	287.13460	196.33927	3.25916	0.0391205	0.22380847	2.6866950	21	6 4.2	20.1
157558 2005 UY_{105}	16.7	X	266.74268	299.99618	178.88660	4.32952	0.1246365	0.24532187	2.5272325	21	11 5.8	19.7
157559 2005 UT_{110}	15.9	X	134.69410	304.66955	243.55710	10.41588	0.2433221	0.23062674	2.6334775	21	9 7.6	20.6
157560 2005 UY_{113}	17.1	X	18.20008	301.30746	260.65814	1.59883	0.1067635	0.27925195	2.3181342	21	3 31.6	19.2
157561 2005 UK_{118}	17.2	X	15.30071	237.19977	24.14574	2.80266	0.0698016	0.29391935	2.2403572	21	6 28.8	19.3
157562 2005 UU_{120}	16.8	X	9.33129	112.45659	16.47002	2.84700	0.0690794	0.26801156	2.3825043	21	—	—
157563 2005 UF_{132}	15.6	X	107.70239	326.07545	120.93748	14.64993	0.1676486	0.21223008	2.7835440	21	4 10.8	19.8
157564 2005 UQ_{132}	16.4	X	327.13879	203.83824	126.80846	7.28485	0.2185911	0.29912350	2.2142961	21	6 30.4	17.9
157565 2005 UA_{139}	15.2	X	253.79089	93.22619	55.17364	16.10717	0.3113452	0.18273689	3.0755201	21	10 25.4	19.9
157566 2005 UL_{143}	15.3	X	283.89721	256.05518	113.06848	15.94095	0.1505661	0.23222730	2.6213632	21	6 25.8	18.7
157567 2005 UM_{143}	15.6	X	242.99203	307.77306	143.23095	13.98465	0.1480010	0.23493707	2.6011677	21	8 24.0	19.2
157568 2005 UF_{154}	17.1	X	263.18534	132.14296	244.14829	1.69490	0.1450791	0.29325789	2.2437247	21	6 6.9	19.8
157569 2005 UC_{155}	16.9	X	1.33722	303.92228	235.95846	2.08834	0.0682736	0.27282184	2.3544165	21	2 2.5	19.6
157570 2005 UP_{155}	16.8	X	151.54531	217.79570	173.20586	7.32034	0.2182460	0.27605359	2.3360051	21	3 9.5	20.2
157571 2005 UX_{167}	16.7	X	140.53550	303.05829	221.00303	11.27908	0.2187226	0.23124089	2.6288126	21	8 13.2	21.4
157572 2005 UV_{191}	16.4	X	187.38381	138.18446	38.60249	4.82236	0.1047069	0.24130941	2.5551704	21	10 17.6	20.1
157573 2005 UL_{197}	17.4	X	234.75772	220.90024	180.11298	2.03304	0.2102175	0.22867537	2.6484379	21	6 4.8	21.8
157574 2005 UH_{201}	17.1	X	211.07524	38.87619	194.26602	2.14417	0.1786881	0.25802108	2.4436139	21	—	—
157575 2005 UM_{202}	16.0	X	77.31315	78.72248	50.87710	10.13831	0.2416240	0.21250984	2.7811005	21	5 2.0	19.4
157576 2005 US_{230}	16.8	X	73.56995	326.74582	146.79295	4.61594	0.0892085	0.27436220	2.3455959	21	2 28.4	19.1
157577 2005 UD_{233}	16.8	X	1.39872	52.65405	106.52032	3.67158	0.1387407	0.26867043	2.3786076	21	—	—
157578 2005 UL_{254}	16.6	X	3.28819	22.69114	109.69569	2.91835	0.1360694	0.26416417	2.4055817	21	—	—
157579 2005 UC_{275}	15.8	X	274.87184	324.77554	140.96366	15.34149	0.1240421	0.24509573	2.5287868	21	11 5.0	19.1
157580 2005 UG_{296}	16.7	X	241.29988	249.62650	232.65623	1.34958	0.1575788	0.24062681	2.5600004	21	9 30.2	20.3
157581 2005 UB_{331}	16.9	X	304.25736	119.09093	88.22215	3.19197	0.1457276	0.26701305	2.3884403	21	—	—
157582 2005 UE_{373}	16.1	X	144.57433	192.15789	248.76736	7.95553	0.1181442	0.21775281	2.7362779	21	4 29.9	20.2
157583 2005 UQ_{381}	16.5	X	163.07774	293.29377	94.48833	7.25175	0.1114495	0.27602023	2.3361933	21	3 11.2	19.8
157584 2005 UC_{382}	16.3	X	248.21765	256.63102	123.86414	7.45726	0.2029543	0.29424801	2.2386886	21	5 22.1	19.7
157585 2005 UZ_{396}	15.1	X	303.36702	319.60812	108.94139	12.33430	0.1196705	0.18175999	3.0865302	21	10 20.5	19.2
157586 2005 UN_{432}	17.4	X	90.49816	98.63366	159.23696	1.10106	0.0526139	0.30352338	2.1928450	21	10 19.3	20.0
157587 2005 UA_{441}	15.9	X	327.41694	265.17381	250.94658	13.22338	0.1081853	0.26370395	2.4083797	21	—	—
157588 2005 UP_{442}	15.9	X	156.44295	39.68573	358.63129	12.25113	0.1491138	0.21518156	2.7580323	21	3 23.4	20.2
157589 2005 UE_{444}	15.4	X	278.06351	29.11810	33.00701	14.75016	0.1618306	0.23729086	2.5839377	21	9 5.5	18.9
157590 2005 UO_{445}	15.3	X	128.16131	288.62967	226.26710	12.03513	0.1270216	0.22560170	2.6724390	21	7 15.6	19.5
157591 2005 UF_{449}	16.3	X	156.13345	198.13154	359.31151	5.78527	0.0667593	0.30393325	2.1908732	21	10 16.5	19.1
157592 2005 UK_{456}	16.0	X	140.81740	123.34045	2.75658	11.33985	0.1327024	0.22547513	2.6734390	21	6 25.7	20.3
157593 2005 UC_{511}	16.8	X	143.67122	228.71766	183.47533	6.69918	0.0798224	0.27669530	2.3323919	21	3 12.5	19.8
157594 2005 VC_{3}	16.3	X	261.81759	13.40032	88.83440	3.22250	0.2770662	0.17755138	3.1351140	21	9 8.9	21.0
157595 2005 VV_{19}	16.0	X	193.60746	284.35817	216.17146	14.38039	0.0810070	0.23762609	2.5815070	21	9 3.3	20.0
157596 2005 VR_{26}	17.0	X	199.28778	335.39776	95.88808	2.08819	0.1063446	0.29032533	2.2588086	21	6 12.8	20.2
157597 2005 VX_{52}	16.4	X	0.95460	27.40090	82.69904	7.37313	0.0538977	0.26087546	2.4257566	21	—	—
157598 2005 VV_{67}	16.7	X	241.89598	252.82237	212.32423	10.79901	0.1572415	0.23795755	2.5791091	21	9 5.2	20.5
157599 2005 VK_{93}	15.3	X	163.77218	279.19444	221.56167	11.69781	0.1498598	0.22803236	2.6534142	21	8 2.6	19.8
157600 2005 VH_{96}	16.6	X	229.69669	359.19180	31.93564	7.20959	0.1011728	0.28978204	2.2616309	21	5 21.9	19.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
157601 2005 WG_3	15.6	X	183.78906	322.21727	173.52888	8.59160	0.1661497	0.23069183	2.6329821	21	8 17.7	19.9
157602 2005 WC_6	15.7	X	145.13644	313.71475	202.52093	14.48468	0.0610728	0.22969779	2.6405729	21	7 30.5	19.8
157603 2005 WL_{13}	17.0	X	248.35542	86.54122	68.85268	2.70894	0.1329552	0.24636967	2.5200620	21	11 26.5	20.1
157604 2005 WT_{21}	15.4	X	185.61258	84.09108	50.40895	6.88988	0.0946286	0.16815464	3.2508491	21	8 21.6	20.5
157605 2005 WK_{22}	16.4	X	92.49300	112.61185	32.99803	3.87154	0.1373527	0.21743515	2.7389423	21	5 26.0	20.0
157606 2005 WU_{26}	16.0	X	156.92354	109.78170	283.91365	2.54026	0.1022071	0.21179827	2.7873261	21	3 14.2	20.2
157607 2005 WA_{28}	16.8	X	12.99157	173.67781	60.97794	9.23023	0.1771902	0.28311995	2.2969722	21	5 13.1	18.3
157608 2005 WF_{34}	14.9	X	182.92986	279.24289	259.49076	14.47907	0.2076323	0.17314988	3.1880216	21	9 28.6	20.6
157609 2005 WQ_{43}	15.7	X	30.85253	359.90456	38.63511	1.26836	0.0870157	0.19005046	2.9961032	21	—	—
157610 2005 WW_{46}	16.8	X	172.06979	216.94983	274.10644	1.63532	0.0369846	0.22941013	2.6427798	21	8 1.7	20.5
157611 2005 WF_{51}	15.3	X	293.45834	210.04571	261.47106	5.15121	0.1562658	0.18307868	3.0716911	21	11 18.1	19.1
157612 2005 WU_{65}	16.4	X	299.38683	280.57540	81.07806	4.65965	0.2262290	0.23459024	2.6037309	21	6 24.6	19.6
157613 2005 WG_{66}	16.9	X	30.76255	6.27640	236.32935	5.72628	0.1566587	0.28872123	2.2671673	21	7 6.4	18.7
157614 2005 WJ_{73}	15.8	X	198.75246	72.51733	63.05800	5.42122	0.0587160	0.23345305	2.6121795	21	9 11.9	19.6
157615 2005 WP_{73}	15.6	X	237.82711	336.06032	175.97959	14.26565	0.1073691	0.24278295	2.5448212	21	11 14.5	19.2
157616 2005 WF_{74}	14.9	X	282.25814	11.63132	89.92924	19.12968	0.1633984	0.17664644	3.1458122	21	10 27.8	19.4
157617 2005 WT_{79}	16.2	X	88.53709	103.00693	286.44796	0.90899	0.1021174	0.19831233	2.9123009	21	—	—
157618 2005 WX_{80}	16.5	X	79.95137	198.45469	54.80708	1.88871	0.0796270	0.23474250	2.6026049	21	9 25.1	19.9
157619 2005 WK_{89}	17.1	X	228.42997	310.01672	72.14582	2.74343	0.2198093	0.28690733	2.2767130	21	5 3.3	20.8
157620 2005 WR_{89}	15.8	X	4.30851	272.86728	79.99202	15.99481	0.0452538	0.23973787	2.5663248	21	10 26.5	19.2
157621 2005 WQ_{100}	16.0	X	14.93775	244.88109	182.65102	1.25573	0.1176609	0.19234707	2.9722066	21	—	—
157622 2005 WB_{101}	16.6	X	300.41043	314.24434	82.56339	2.82131	0.0652194	0.23687021	2.5869960	21	9 12.2	19.8
157623 2005 WG_{105}	16.4	X	267.41500	250.95327	192.49456	13.64355	0.0951961	0.23794910	2.5791702	21	9 20.5	19.8
157624 2005 WB_{106}	17.2	X	271.41934	176.64664	180.28293	4.64824	0.2175081	0.29192897	2.2505289	21	5 12.2	20.3
157625 2005 WQ_{121}	16.4	X	226.46894	8.95293	95.97390	2.43339	0.0878714	0.23444204	2.6048280	21	8 30.8	20.1
157626 2005 WP_{143}	16.5	X	338.22683	24.97319	323.28572	0.09927	0.0364096	0.23479365	2.6022268	21	9 2.4	19.8
157627 2005 WD_{149}	14.8	X	285.36513	192.66117	276.64839	12.25249	0.1762772	0.18188524	3.0851130	21	10 27.3	19.0
157628 2005 WA_{152}	16.1	X	353.98039	348.72667	263.42228	11.62534	0.1581883	0.28360633	2.2943453	21	4 23.5	18.4
157629 2005 WL_{153}	16.8	X	311.95810	264.67725	344.19185	1.72549	0.1704486	0.27479738	2.3431189	21	2 10.9	19.8
157630 2005 WB_{158}	15.5	X	246.94371	175.13659	91.29190	3.15870	0.0652454	0.19824687	2.9129419	21	1 16.3	19.7
157631 2005 WA_{159}	15.4	X	324.82225	311.64613	130.92448	13.08858	0.0995741	0.18673212	3.0314939	21	12 9.4	19.3
157632 2005 WO_{162}	16.4	X	295.49056	155.40328	239.35963	1.33965	0.1179934	0.23259713	2.6185838	21	8 22.4	19.6
157633 2005 WX_{178}	15.8	X	237.85040	37.68931	90.37741	22.97331	0.1313536	0.24187295	2.5512000	21	10 21.3	19.9
157634 2005 WL_{196}	15.3	X	88.01919	273.43214	131.56597	11.62150	0.0647123	0.19241441	2.9715131	21	1 4.7	19.4
157635 2005 WF_{198}	16.2	X	3.10903	302.63196	133.21455	1.75920	0.0527350	0.18958701	3.0009838	21	—	—
157636 2005 WT_{202}	15.7	X	195.95176	13.04865	97.91303	15.33418	0.1293639	0.22746533	2.6578221	21	8 1.9	19.9
157637 2005 XD_{41}	15.3	X	66.22906	250.65983	260.05493	10.20830	0.1154468	0.21125324	2.7921182	21	4 19.6	18.9
157638 2005 XZ_{53}	15.4	X	305.19259	244.17953	89.29942	15.79861	0.0365046	0.22323910	2.6912613	21	6 24.1	19.0
157639 2005 XY_{78}	16.0	X	4.71208	266.65883	144.35550	1.10972	0.1425182	0.18712764	3.0272207	21	—	—
157640 Baumeler	14.8	X	191.89225	274.88616	253.88953	9.31759	0.1144541	0.17185790	3.2039795	21	9 30.4	20.0
157641 2005 XX_{81}	16.8	X	114.22688	305.84514	250.32550	1.38373	0.1384228	0.22752964	2.6573213	21	8 26.7	20.7
157642 2005 XU_{84}	16.1	X	260.37073	357.96686	62.38358	5.38158	0.1733219	0.22983509	2.6395212	21	8 1.4	19.9
157643 2005 XU_{85}	15.5	X	285.33410	95.01799	56.05003	7.69211	0.1119956	0.18541697	3.0458118	21	—	—
157644 2005 XK_{87}	16.9	X	14.88731	241.25159	112.12224	4.85890	0.1592206	0.30630818	2.1795340	21	12 5.5	19.0
157645 2005 YA_1	15.5	X	165.08210	88.26546	33.11738	21.92566	0.0730897	0.22239659	2.6980539	21	7 16.1	20.0
157646 2005 YO_5	16.3	X	64.80728	133.06256	78.60855	3.71721	0.0739765	0.22324370	2.6912244	21	7 7.3	19.6
157647 2005 YX_7	16.4	X	95.66173	222.92565	257.38307	0.78558	0.0524885	0.20862834	2.8154890	21	4 14.8	20.3
157648 2005 YC_{12}	16.7	X	68.82782	73.61137	33.87149	0.49216	0.0670452	0.20455795	2.8527155	21	2 23.8	20.4
157649 2005 YK_{16}	16.1	X	222.05309	127.49256	131.84902	2.50892	0.1781735	0.18835263	3.0140810	21	—	—
157650 2005 YB_{22}	16.4	X	156.76922	202.90507	59.74910	1.05286	0.1079768	0.24439269	2.5336341	21	12 31.2	20.3
157651 2005 YV_{26}	15.1	X	237.80912	262.05228	319.24077	7.64031	0.0595415	0.18776442	3.0203726	21	—	—
157652 2005 YM_{27}	15.2	X	267.01428	63.08186	92.11132	3.82565	0.0408801	0.18160977	3.0882319	21	12 20.6	19.5
157653 2005 YU_{30}	15.1	X	241.77633	90.60414	108.58648	6.70025	0.0809368	0.18331267	3.0690766	21	—	—
157654 2005 YT_{32}	15.1	X	174.26772	128.76624	126.12715	7.59656	0.1627056	0.17937165	3.1138679	21	12 25.6	20.2
157655 2005 YW_{32}	17.4	X	101.49587	153.92708	181.83544	1.54287	0.2059264	0.31435515	2.1421785	21	—	—
157656 2005 YF_{33}	16.8	X	313.98556	128.82816	277.63733	2.50720	0.0984603	0.23673600	2.5879736	21	10 11.2	19.8
157657 2005 YL_{35}	16.4	X	195.02715	246.25248	251.96502	1.42726	0.0115097	0.23060277	2.6336600	21	9 10.3	20.0
157658 2005 YB_{38}	14.5	X	162.75354	109.01100	6.96224	12.79711	0.0419818	0.15725263	3.3994143	21	7 2.9	19.7
157659 2005 YB_{42}	15.1	X	145.80224	212.28308	21.04363	1.14969	0.1322685	0.17198409	3.2024120	21	11 5.7	20.2
157660 2005 YD_{45}	15.9	X	308.43469	33.95068	176.32556	1.85806	0.0593735	0.19831555	2.9122694	21	1 18.6	19.8
157661 2005 YV_{50}	15.9	X	352.60593	182.73696	116.48048	15.64770	0.1978072	0.22405985	2.6846852	21	7 13.2	18.3
157662 2005 YY_{50}	15.2	X	195.76627	263.00865	340.59257	0.43779	0.1275237	0.18148520	3.0896450	21	—	—
157663 2005 YB_{53}	15.8	X	299.16866	202.78187	64.23390	2.81761	0.0177231	0.20726970	2.8277792	21	3 24.8	19.7
157664 2005 YY_{53}	16.8	X	164.81865	218.91306	115.67021	2.33396	0.1968337	0.26266773	2.4147096	21	1 11.1	20.4
157665 2005 YM_{58}	15.3	X	266.53000	337.20977	139.71559	5.17272	0.0610610	0.17565095	3.1576868	21	11 1.9	19.8
157666 2005 YW_{59}	15.6	X	197.25494	206.57912	139.01606	24.66847	0.2464019	0.26981681	2.3718654	21	2 24.1	19.8
157667 2005 YZ_{61}	15.6	X	340.93620	245.58996	94.46821	9.20769	0.1080457	0.23042808	2.6349908	21	8 27.8	18.6
157668 2005 YY_{72}	15.2	X	213.40069	186.47954	333.80649	2.57517	0.1083403	0.17474404	3.1686028	21	10 15.3	20.0
157669 2005 YM_{77}	16.3	X	28.55342	246.07138	19.72827	1.90999	0.1620561	0.22244034	2.6977002	21	8 8.0	19.1
157670 2005 YP_{92}	15.3	X	196.02886	293.57117	268.64890	2.85263	0.1336382	0.17519439	3.1631704	21	11 15.1	20.2
157671 2005 YY_{92}	16.3	X	209.21675	88.38120	161.00210	2.15455	0.0482671	0.18744504	3.0238024	21	—	—
157672 2005 YQ_{98}	15.5	X	314.00582	143.24606	51.72630	3.04525	0.0356440	0.19740039	2.9212633	21	1 11.1	19.5
157673 2005 YR_{98}	17.1	X	321.86562	339.86721	44.82918	2.43267	0.1553417	0.29975858	2.2111674	21	10 3.4	18.4
157674 2005 YC_{122}	16.5	X	309.07305	0.21293	34.59789	2.58128	0.1814586	0.23454519	2.6040643	21	9 8.1	19.1
157675 2005 YH_{124}	16.3	X	331.18954	298.05539	57.91863	5.08654	0.0939316	0.23203582	2.6228051	21	9 2.5	19.3
157676 2005 YJ_{128}	14.6	X	134.43932	183.59507	115.73909	14.90001	0.0990362	0.18192576	3.0846549	21	—	—
157677 2005 YG_{131}	16.1	X	159.53435	191.54528	113.09514	2.45514	0.0608377	0.18727917	3.0255876	21	—	—
157678 2005 YD_{133}	15.3	X	289.38745	204.66592	73.60784	7.67253	0.1437758	0.20882151	2.8137525	21	3 11.6	19.4
157679 2005 YY_{136}	15.4	X	327.81807	203.35910	289.30545	3.80248	0.0233155	0.18870437	3.0103345	21	—	—
157680 2005 YP_{137}	15.7	X	284.81013	200.25705	90.33166	5.21440	0.0751443	0.20994495	2.8037057	21	3 29.5	19.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
157681 2005 YX_{171}	15.6	X	319.34345	62.71999	0.92224	13.94287	0.1135250	0.24137439	2.5547118	21	11 9.7	18.6
157682 2005 YH_{172}	15.9	X	313.77050	17.65236	33.70271	15.21325	0.1688141	0.23711356	2.5852256	21	10 15.9	18.3
157683 2005 YX_{178}	15.8	X	210.92112	32.80066	184.64645	0.23436	0.1306559	0.17868635	3.1218243	21	12 18.1	20.6
157684 2005 YD_{181}	15.7	X	13.89420	339.34151	46.74895	14.92236	0.1761629	0.24392266	2.5368879	21	—	—
157685 2005 YB_{191}	15.5	X	236.52010	220.21640	94.26316	3.10889	0.0730080	0.20328014	2.8646578	21	3 3.7	19.8
157686 2005 YM_{205}	16.9	X	108.51749	198.56011	160.52024	1.45412	0.1942423	0.25576018	2.4579937	21	—	—
157687 2005 YD_{209}	15.4	X	312.48965	70.22847	247.19827	6.31334	0.0433365	0.21709243	2.7418241	21	6 11.9	19.0
157688 2005 YX_{210}	15.4	X	278.98213	309.06072	49.95706	7.33758	0.0445305	0.21779992	2.7358833	21	6 21.1	19.1
157689 2005 YM_{256}	15.8	X	37.03461	44.62271	224.74897	4.33854	0.1269738	0.22216964	2.6998911	21	8 20.1	19.1
157690 2005 YR_{258}	16.3	X	277.76501	280.93262	10.36497	0.77826	0.0881602	0.21152443	2.7897312	21	3 17.2	20.0
157691 2005 YG_{263}	16.3	X	166.89458	259.75153	164.86731	4.34650	0.1984417	0.21391291	2.7689262	21	5 8.9	20.9
157692 2005 YJ_{278}	16.7	X	315.97799	176.87983	81.39651	8.49458	0.0888747	0.27689920	2.3312468	21	3 18.6	19.6
157693 Amandamarty	16.2	X	197.63818	208.91396	227.98070	7.64858	0.1393821	0.22136408	2.7064372	21	6 18.8	20.5
157694 2006 AY_{2}	15.2	X	36.72726	205.62154	182.56245	17.30981	0.0947002	0.17900898	3.1180722	21	—	—
157695 2006 AY_{5}	15.0	X	239.80043	25.84698	169.85700	11.33185	0.0326006	0.18342653	3.0678064	21	—	—
157696 2006 AV_{6}	14.8	X	177.86405	267.31028	326.73211	15.74701	0.1140673	0.17865211	3.1222232	21	12 5.3	20.0
157697 2006 AA_{7}	14.5	X	62.96583	122.23992	97.98977	18.58803	0.0879683	0.15452050	3.4393680	21	7 17.4	19.2
157698 2006 AG_{14}	15.3	X	217.89026	62.61899	155.33820	1.14494	0.1224811	0.17947197	3.1127074	21	12 26.7	19.9
157699 2006 AJ_{17}	16.2	X	330.86959	150.67563	131.65865	3.99676	0.1616686	0.21477791	2.7614868	21	5 8.4	19.3
157700 2006 AF_{18}	14.8	X	194.64499	112.93397	138.36356	10.52461	0.0341410	0.18254222	3.0777062	21	—	—
157701 2006 AD_{21}	14.2	X	38.76590	150.70610	95.78565	18.38296	0.0460444	0.15437314	3.4415564	21	7 12.3	18.9
157702 2006 AZ_{21}	15.0	X	339.95878	250.88914	60.60146	17.14772	0.2299253	0.21659075	2.7460564	21	6 27.8	17.7
157703 2006 AW_{27}	15.5	X	44.54555	8.16515	64.82994	7.28153	0.0282511	0.19066192	2.9896940	21	—	—
157704 2006 AL_{29}	15.4	X	312.38531	66.58925	52.57746	10.60411	0.1274438	0.18281472	3.0746471	21	12 31.9	19.2
157705 2006 AS_{35}	16.0	X	275.63912	220.18456	286.47523	1.03252	0.0352278	0.18059028	3.0998437	21	12 21.5	20.3
157706 2006 AD_{51}	14.7	X	110.63049	183.29539	113.91532	25.78476	0.0852445	0.17985080	3.1083349	21	12 18.4	19.6
157707 2006 AM_{51}	15.5	X	171.81237	74.83119	156.53051	1.34808	0.1496430	0.17580075	3.1558927	21	11 26.9	20.6
157708 2006 AO_{56}	16.9	X	178.70147	225.69490	85.36514	2.26221	0.1670170	0.26031332	2.4292476	21	—	—
157709 2006 AA_{57}	16.6	X	163.56336	186.54586	165.82633	3.03221	0.2361827	0.26489371	2.4011629	21	2 3.3	20.5
157710 2006 AR_{68}	15.3	X	26.01688	258.10631	177.74040	0.92111	0.2083034	0.12559548	3.9489961	21	—	—
157711 2006 AU_{68}	15.9	X	111.23843	184.09234	138.05127	4.41709	0.0837077	0.18225346	3.0809562	21	—	—
157712 2006 AX_{70}	16.1	X	101.41239	262.08226	125.95842	12.07250	0.2087232	0.25976480	2.4326662	21	1 5.2	18.8
157713 2006 AO_{71}	15.4	X	43.51197	249.58670	152.77137	3.26071	0.0468978	0.18490153	3.0514695	21	—	—
157714 2006 AO_{74}	15.0	X	200.38798	138.06800	55.17179	4.84359	0.0978781	0.17267694	3.1938400	21	11 11.7	20.0
157715 2006 AW_{79}	15.4	X	10.21411	36.94876	76.11779	3.67573	0.1061634	0.19044116	2.9920040	21	—	—
157716 2006 AK_{81}	14.8	X	142.67417	280.20233	305.37626	9.19088	0.0662546	0.17106667	3.2138513	21	10 18.4	19.8
157717 2006 AV_{83}	16.0	X	191.39707	340.22146	103.77887	6.68426	0.0515901	0.21974692	2.7196991	21	6 23.7	20.0
157718 2006 AF_{97}	14.7	X	350.70906	299.65873	99.86045	18.32774	0.0604073	0.17354086	3.1832314	21	11 23.2	19.1
157719 2006 BY_{16}	15.0	X	75.33011	250.27863	120.34108	10.67913	0.1146003	0.18534843	3.0465626	21	—	—
157720 2006 BD_{20}	14.7	X	224.00333	135.67751	119.17910	10.71743	0.0589404	0.18657071	3.0332421	21	—	—
157721 2006 BS_{26}	15.8	X	236.07835	231.03057	85.31103	3.22516	0.0554507	0.20280782	2.8691038	21	3 6.9	20.1
157722 2006 BR_{30}	15.6	X	138.55173	294.44241	45.03619	2.44027	0.1338485	0.18902790	3.0068986	21	—	—
157723 2006 BA_{31}	14.9	X	30.90993	249.23023	111.04076	4.82765	0.0923723	0.17388322	3.1790518	21	11 29.2	19.2
157724 2006 BK_{48}	15.9	X	203.83308	136.00422	51.03005	2.20760	0.1194688	0.17321996	3.1871617	21	11 6.2	20.8
157725 2006 BL_{50}	16.6	X	264.05319	215.50795	44.33502	2.69373	0.0302236	0.19703332	2.9248904	21	1 31.4	20.7
157726 2006 BH_{51}	15.5	X	256.11699	229.21937	90.88413	3.32507	0.0435946	0.20570192	2.8421292	21	4 4.6	19.6
157727 2006 BZ_{63}	16.8	X	15.18126	206.24839	143.12950	1.14691	0.0595775	0.23434387	2.6055555	21	10 31.0	20.0
157728 2006 BX_{77}	15.4	X	117.29217	234.31806	83.97783	2.34658	0.1633073	0.18162853	3.0880193	21	—	—
157729 2006 BV_{85}	15.1	X	222.86564	116.74116	112.06877	11.46182	0.0761833	0.18405859	3.0607791	21	—	—
157730 2006 BS_{88}	13.9	X	297.37961	315.57399	343.63938	4.33557	0.0266338	0.08134294	5.2754091	21	5 8.5	20.8
157731 2006 BW_{105}	16.1	X	202.26488	281.45211	45.08930	2.65022	0.0082883	0.19844517	2.9110011	21	2 9.8	20.1
157732 2006 BB_{138}	14.7	X	319.75896	252.02508	153.79568	11.48502	0.1305065	0.16903438	3.2395599	21	10 11.1	18.7
157733 2006 BJ_{148}	15.3	X	32.20256	337.07643	56.46543	11.34340	0.0827774	0.18290003	3.0736909	21	—	—
157734 2006 BQ_{149}	15.3	X	358.32969	224.14768	39.88186	12.79776	0.1277773	0.21425634	2.7659666	21	6 1.4	18.5
157735 2006 BP_{151}	15.3	X	102.44347	257.50908	84.07609	2.95348	0.1463877	0.18276999	3.0751487	21	—	—
157736 2006 BB_{155}	15.1	X	348.15989	263.97549	139.50394	12.19221	0.1626200	0.17376643	3.1804761	21	11 27.1	18.9
157737 2006 BX_{161}	14.7	X	240.60058	326.00976	210.80595	14.93788	0.1026751	0.17639924	3.1487505	21	12 5.4	19.4
157738 2006 BJ_{183}	15.7	X	270.24547	41.03541	115.38328	2.33236	0.1060064	0.17957598	3.1115053	21	12 17.2	19.8
157739 2006 BG_{189}	15.5	X	122.22484	265.03088	67.53646	3.63310	0.0785408	0.18004388	3.1061122	21	—	—
157740 2006 BP_{199}	13.3	X	324.99099	295.19875	5.67055	1.64536	0.0784848	0.08055135	5.3099140	21	6 8.6	19.9
157741 2006 BE_{202}	12.7	X	353.93529	283.37404	340.80810	9.47126	0.0939213	0.08262948	5.2205073	21	6 3.1	19.3
157742 2006 BX_{214}	14.9	X	299.26918	125.56897	282.33564	3.54704	0.1176214	0.16883074	3.2421644	21	9 8.2	19.2
157743 2006 BW_{219}	16.2	X	165.00738	82.92616	337.91438	0.43311	0.0789882	0.21454213	2.7635097	21	4 24.9	20.4
157744 2006 BX_{237}	15.2	X	123.15894	275.00309	356.25569	3.99541	0.1285389	0.17199648	3.2022582	21	11 27.9	20.3
157745 2006 BF_{249}	15.4	X	74.47778	217.66931	139.60699	12.14989	0.1138922	0.17896247	3.1186124	21	—	—
157746 2006 BX_{270}	15.3	X	332.63269	93.24344	29.09755	8.50489	0.0464053	0.18507799	3.0495297	21	—	—
157747 Mandryka	15.0	X	130.87353	162.40473	152.77148	18.17612	0.2004170	0.17820240	3.1274738	21	—	—
157748 2006 CP_{18}	15.6	X	8.70848	231.91910	221.30228	2.15892	0.0330328	0.18612074	3.0381290	21	—	—
157749 2006 CC_{31}	15.0	X	354.70270	236.58151	171.40426	6.12806	0.1638962	0.17715216	3.1398224	21	12 12.8	18.6
157750 2006 CF_{44}	15.8	X	193.03262	276.15782	36.65947	2.01463	0.0907228	0.19761743	2.9191241	21	1 16.2	20.1
157751 2006 CE_{51}	15.6	X	177.93776	75.92156	167.80098	0.73421	0.1348915	0.17606898	3.1526868	21	12 16.7	20.6
157752 2006 CS_{53}	16.3	X	144.92638	265.51363	37.38419	1.88968	0.2299927	0.24627807	2.5206868	21	—	—
157753 2006 DG_{3}	15.6	X	87.25675	157.18939	174.73862	2.88722	0.2235763	0.23861420	2.5743753	21	—	—
157754 2006 DP_{51}	15.9	X	124.66089	310.25158	30.74046	1.37752	0.2101788	0.18715464	3.0269296	21	—	—
157755 2006 DC_{100}	15.8	X	31.70909	233.34227	125.18942	2.56003	0.1799050	0.17274804	3.1929636	21	12 9.4	20.0
157756 2006 EE_{25}	16.0	X	203.98195	200.90819	149.93636	0.23775	0.0927730	0.19925947	2.9030649	21	3 12.5	20.4
157757 2006 EF_{47}	15.5	X	154.37996	328.73501	69.82952	2.99092	0.0450013	0.19922946	2.9033564	21	3 16.5	19.7
157758 2007 AU_{25}	16.5	X	275.96566	6.09542	148.49022	7.80227	0.0523012	0.26177169	2.4202168	21	—	—
157759 2007 DO_{20}	16.7	X	201.18716	191.58314	132.72303	3.00351	0.0608487	0.20645409	2.8352219	21	2 4.5	21.0
157760 2007 DD_{35}	15.9	X	102.74944	285.74487	4.06845	0.54739	0.1630749	0.17685062	3.1433904	21	12 4.3	20.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
157761 2007 DA_{37}	16.2	X	24.08125	283.04492	344.99700	1.52692	0.1337395	0.22573218	2.6714091	21	7 30.1	19.0
157762 2007 DD_{37}	17.7	X	11.87356	77.24562	168.62334	3.18281	0.1465842	0.28834350	2.2691469	21	5 29.7	19.3
157763 2007 DU_{37}	16.3	X	106.45427	268.20168	177.79916	4.41481	0.0430213	0.21081253	2.7960082	21	3 14.1	20.1
157764 2007 DV_{47}	16.4	X	253.92126	21.38750	146.60263	1.62894	0.0881868	0.18691723	3.0294921	21	12 14.4	20.5
157765 2007 DM_{58}	16.4	X	37.03249	273.98631	296.83132	2.06888	0.1184287	0.21925754	2.7237444	21	5 28.2	19.3
157766 2007 DF_{97}	15.8	X	129.82606	290.24413	181.73646	16.42736	0.0442780	0.21951967	2.7215757	21	5 18.7	19.8
157767 2007 DG_{99}	16.7	X	32.29968	134.96654	348.87700	6.81831	0.0667251	0.27528418	2.3403558	21	1 5.1	19.4
157768 2007 DQ_{101}	17.0	X	104.90621	75.87316	167.53977	0.96389	0.1183607	0.24129073	2.5553023	21	10 16.4	20.6
157769 2007 EB_{43}	14.5	X	18.32518	335.37552	9.76247	12.62406	0.1188195	0.17057088	3.2200760	21	10 22.7	18.7
157770 2007 EO_{57}	17.4	X	330.75075	248.15072	343.01587	2.12337	0.1700432	0.27800719	2.3250486	21	2 11.9	20.1
157771 2007 EV_{127}	17.0	X	29.69130	78.74516	359.39323	1.29006	0.0860658	0.19654660	2.9297172	21	—	—
157772 2007 EK_{130}	17.6	X	44.99659	104.39806	175.42510	2.30100	0.1411135	0.30090301	2.2055574	21	9 30.7	19.9
157773 2007 EW_{135}	16.8	X	112.39915	49.72939	187.80616	1.25721	0.0670633	0.23855074	2.5748319	21	10 12.1	20.5
157774 2007 FF	16.0	X	9.30534	19.83186	176.05296	3.45751	0.0298789	0.21290502	2.7776581	21	3 23.2	19.6
157775 2007 FZ_{1}	15.0	X	332.54022	322.21978	89.36185	11.31830	0.0100717	0.17932814	3.1143715	21	11 12.6	19.4
157776 2770 $P–L$	16.6	X	38.50161	316.08404	20.55468	4.96333	0.2090703	0.30903607	2.1666891	21	12 23.1	19.3
157777 6239 $P–L$	15.5	X	207.89998	36.86837	239.11960	1.41539	0.1633968	0.18476064	3.0530206	21	—	—
157778 6812 $P–L$	16.2	X	124.41356	214.83537	165.46645	7.06751	0.1201838	0.26569084	2.3963578	21	1 11.8	19.2
157779 7582 $P–L$	15.6	X	17.78200	337.41509	21.47374	14.34890	0.1862715	0.24409135	2.5357190	21	12 2.9	18.7
157780 7620 $P–L$	16.4	X	276.22038	269.79002	31.98586	5.51580	0.3100827	0.27050414	2.3678459	21	2 28.8	20.3
157781 3077 $T–2$	15.0	X	19.52141	263.74576	175.77926	14.30840	0.1581452	0.19029829	2.9935014	21	—	—
157782 3296 $T–2$	15.9	X	332.56333	319.26393	14.30859	12.75255	0.1774990	0.22427184	2.6829931	21	7 28.5	18.9
157783 2124 $T–3$	15.6	X	350.69799	213.53553	217.05776	14.10712	0.2496315	0.18136882	3.0909665	21	—	—
157784 3458 $T–3$	15.8	X	259.98403	359.27751	20.40368	5.62018	0.0801637	0.21929983	2.7233942	21	6 18.5	19.6
157785 4233 $T–3$	15.5	X	326.70596	277.36219	35.48735	14.14704	0.1774853	0.22032338	2.7149530	21	6 6.9	18.6
157786 4345 $T–3$	16.8	X	197.55919	205.94084	180.06474	6.84106	0.1979911	0.28314652	2.2968285	21	4 12.8	20.5
157787 4443 $T–3$	16.1	X	261.59285	285.54623	88.67480	4.08012	0.0957727	0.21899513	2.7259198	21	6 11.4	19.9
157788 5020 $T–3$	15.4	X	279.64213	253.80866	128.98286	8.71224	0.1975339	0.17569106	3.1572061	21	6 30.9	19.9
157789 1991 RK_{28}	16.5	X	92.36321	171.39519	147.18358	4.92442	0.2716296	0.23876372	2.5733004	21	—	—
157790 1991 VP_{8}	17.7	X	343.16629	283.63508	67.38730	3.36182	0.2032399	0.29423290	2.2387653	21	9 28.3	18.8
157791 1992 SK_{3}	14.8	X	34.49727	264.03720	157.93932	9.54473	0.1267392	0.18035863	3.1024974	21	—	—
157792 1993 FT_{10}	16.3	X	89.82452	355.39035	165.05202	4.48856	0.1531835	0.21619345	2.7494196	21	6 14.8	20.2
157793 1994 EZ_{5}	15.9	X	223.00194	90.04561	42.52101	4.47851	0.2269311	0.23684230	2.5871992	21	9 18.4	20.0
157794 1994 PP_{14}	15.6	X	314.27802	337.54624	313.96969	7.06133	0.1980690	0.21230669	2.7828744	21	4 13.2	19.3
157795 1995 CE_{3}	15.5	X	204.81317	121.62179	142.67886	16.17971	0.2202020	0.18131494	3.0915788	21	—	—
157796 1995 FW_{4}	15.7	X	201.95396	130.76220	77.30145	2.53402	0.1107582	0.17452814	3.1712154	21	11 29.6	20.6
157797 1995 ON_{12}	16.4	X	124.72573	31.55233	233.20236	4.11124	0.2131825	0.23786290	2.5797933	21	12 4.5	20.7
157798 1995 OZ_{12}	15.5	X	168.74507	305.75861	145.93029	14.37841	0.1625469	0.21951608	2.7216054	21	6 12.4	20.2
157799 1995 SE_{13}	16.4	X	68.46371	297.93672	351.90101	1.28067	0.1792837	0.23172251	2.6251688	21	11 9.3	20.2
157800 1995 SS_{18}	16.3	X	94.35244	26.94324	220.77851	1.10164	0.2287969	0.22845103	2.6501715	21	10 19.6	20.5
157801 1995 ST_{30}	16.3	X	66.46417	290.83735	2.29998	2.15651	0.0656002	0.23151496	2.6267375	21	10 26.4	19.7
157802 1995 SV_{40}	16.3	X	26.48255	130.17241	164.33687	4.90973	0.1460590	0.22609637	2.6685396	21	9 12.6	19.3
157803 1995 SZ_{56}	16.5	X	22.32687	143.96925	173.10632	4.32529	0.1810689	0.22913004	2.6449331	21	10 13.9	19.2
157804 1995 SF_{87}	16.2	X	305.66243	207.82018	169.12979	3.18363	0.1355368	0.22601113	2.6692105	21	8 10.5	19.3
157805 1995 TA_{5}	16.5	X	62.30888	139.52702	21.18977	5.57416	0.1149183	0.21207520	2.7848990	21	4 29.4	19.8
157806 1995 UY_{13}	16.7	X	62.47819	15.91447	203.36127	2.88956	0.0303559	0.21909219	2.7251147	21	7 7.3	20.2
157807 1995 UY_{14}	16.2	X	148.15832	206.41592	243.32558	3.34938	0.0405958	0.21302401	2.7766236	21	5 9.5	20.0
157808 1995 UP_{43}	15.7	X	238.14509	210.82181	194.04634	5.50241	0.0433922	0.21729028	2.7401595	21	6 29.2	19.6
157809 1995 UK_{50}	16.2	X	306.87111	70.51268	264.12536	2.09020	0.1975075	0.22013200	2.7165264	21	6 3.3	19.6
157810 1995 UD_{56}	16.8	X	354.72180	351.70714	302.99192	2.05478	0.0913254	0.21989537	2.7184749	21	7 12.9	19.9
157811 1995 UU_{56}	15.6	X	31.93216	182.99402	59.88164	10.28503	0.2251760	0.21704463	2.7422267	21	7 21.7	18.5
157812 1995 US_{60}	17.0	X	196.60783	307.11905	169.77584	3.71037	0.0478447	0.29926062	2.2136197	21	8 15.9	19.6
157813 1995 WN_{1}	16.5	X	266.60470	18.26768	26.48752	7.41469	0.1662221	0.29688429	2.2254162	21	7 22.1	19.3
157814 1995 WU_{28}	15.4	X	286.15294	308.36809	57.63002	13.62184	0.1501106	0.22014609	2.7164105	21	6 23.2	19.2
157815 1996 FD_{7}	17.6	X	10.47292	35.94403	147.47735	1.81392	0.1235264	0.27455096	2.3445207	21	2 17.4	19.6
157816 1996 GM_{7}	15.4	X	346.37924	16.63695	33.41297	10.69823	0.0568089	0.17761504	3.1343649	21	11 23.9	19.5
157817 1996 GR_{8}	16.7	X	314.89485	103.11049	156.09405	3.93365	0.1861964	0.27329790	2.3516816	21	2 26.2	19.4
157818 1996 GU_{9}	16.5	X	182.15024	296.88324	40.77891	5.05945	0.2486792	0.26604785	2.3942135	21	2 4.1	20.6
157819 1996 JV_{6}	16.0	X	251.76689	78.19803	105.27553	3.44580	0.0568384	0.18071584	3.0984077	21	—	—
157820 1996 TE_{21}	16.4	X	99.11250	9.10583	214.39981	3.34353	0.0499289	0.23096670	2.6308927	21	9 3.2	19.9
157821 1996 TA_{24}	16.6	X	145.70992	281.48081	1.62951	1.09218	0.0833742	0.24558321	2.5254393	21	—	—
157822 1996 TL_{28}	16.9	X	150.03464	149.64446	128.05957	5.11221	0.1488594	0.24604039	2.5223099	21	—	—
157823 1996 XJ_{18}	16.0	X	56.43018	92.96040	124.30467	12.07600	0.1049697	0.21705670	2.7421250	21	7 7.1	19.4
157824 1997 CP_{2}	15.9	X	302.62184	276.54515	112.97330	3.15389	0.0944909	0.22568647	2.6717698	21	8 31.1	19.1
157825 1997 RE_{8}	15.2	X	115.52381	275.81388	31.25481	5.85699	0.1403682	0.17419191	3.1752949	21	—	—
157826 1997 SB_{23}	15.7	X	56.24586	47.55736	11.88134	7.03459	0.1036036	0.25891943	2.4379584	21	—	—
157827 1997 TV_{18}	16.5	X	294.60711	222.80277	105.84116	2.04125	0.2261544	0.27989034	2.3146080	21	4 30.2	19.3
157828 1997 WJ_{15}	16.7	X	188.46026	128.35919	213.20284	4.17838	0.1335191	0.26531532	2.3986184	21	2 4.8	20.5
157829 1997 WC_{36}	16.2	X	142.22534	331.54741	55.12815	7.29227	0.2606249	0.26437899	2.4042784	21	3 4.8	20.0
157830 1997 YE	15.7	X	281.58174	207.42944	262.56356	4.86790	0.1577815	0.24455679	2.5325007	21	11 9.3	18.6
157831 1998 BR_{10}	15.8	X	277.63326	11.20895	96.79085	3.73414	0.1861356	0.24026551	2.5625662	21	10 28.4	18.7
157832 1998 BO_{28}	14.3	X	23.20377	318.05123	126.58120	8.57352	0.2381642	0.12463625	3.9692318	21	—	—
157833 1998 FK_{8}	16.3	X	125.77461	195.43626	22.72026	2.88045	0.0483551	0.23196949	2.6233051	21	9 30.9	20.0
157834 1998 FV_{39}	16.4	X	157.66998	298.15011	224.32907	3.34426	0.1506859	0.22855727	2.6493502	21	8 26.9	20.6
157835 1998 FS_{71}	15.5	X	203.89769	291.16770	196.81868	10.07055	0.1537431	0.23067903	2.6330795	21	8 26.2	19.7
157836 1998 FG_{102}	15.5	X	70.92441	343.58266	239.32519	8.43575	0.1975755	0.22282271	2.6946131	21	8 15.8	19.3
157837 1998 FC_{125}	15.8	X	60.15726	210.95414	30.82545	13.52866	0.1458654	0.22291395	2.6938777	21	8 29.9	19.5
157838 1998 FG_{139}	15.9	X	139.34012	355.24159	190.95652	4.81079	0.0737782	0.22782240	2.6550443	21	9 4.9	19.7
157839 1998 GN_{8}	15.8	X	57.50192	131.66460	96.35483	10.45471	0.2199470	0.22077639	2.7112379	21	8 14.3	19.3
157840 1998 HS_{9}	15.5	X	19.97978	217.23248	84.34217	15.61192	0.0521451	0.22312509	2.6921780	21	9 8.4	19.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
157841 1998 HY_{53}	15.8	X	82.83613	31.97882	192.44038	14.96827	0.0930551	0.22388342	2.6860954	21	8 17.8	19.7
157842 1998 MP_{1}	16.2	X	68.37790	349.95223	176.59292	4.69775	0.0629983	0.21341431	2.7732372	21	5 11.2	19.8
157843 1998 QS_{29}	16.6	X	240.71049	115.57586	186.32212	7.03391	0.2113056	0.19845964	2.9108595	21	2 10.9	21.6
157844 1998 QN_{84}	14.9	X	3.63784	96.58111	241.57073	7.72693	0.3214640	0.21625968	2.7488583	21	10 23.0	17.0
157845 1998 RT_{17}	16.7	X	68.94380	171.94667	183.27897	5.23751	0.1841116	0.31184745	2.1536473	21	—	—
157846 1998 RT_{22}	17.2	X	359.02053	10.87609	8.23378	2.63077	0.2029322	0.30520939	2.1847619	21	12 23.5	18.9
157847 1998 RM_{46}	17.1	X	257.70071	146.26096	255.76859	3.04422	0.1519037	0.29447442	2.2375410	21	7 5.7	19.8
157848 1998 RA_{67}	15.4	X	118.64044	175.32465	218.57797	7.60456	0.2171924	0.18964561	3.0003656	21	2 16.5	19.9
157849 1998 SH_{96}	14.5	X	136.82017	343.97900	27.86465	9.10512	0.0961585	0.19028780	2.9936113	21	2 1.2	19.0
157850 1998 SH_{101}	15.0	X	40.46896	210.47825	201.69248	9.46315	0.1266667	0.18197696	3.0840763	21	—	—
157851 1998 SX_{151}	15.3	X	203.17410	194.57366	110.41873	2.99624	0.0129238	0.19043164	2.9921037	21	1 16.4	19.3
157852 1998 TH_{6}	14.7	X	67.19748	13.68286	35.26421	19.24650	0.1062327	0.18487457	3.0517663	21	—	—
157853 1998 TL_{13}	16.0	X	104.49378	318.35927	49.62282	2.91916	0.1752537	0.18333370	3.0688419	21	—	—
157854 1998 TN_{15}	15.2	X	80.57508	138.10311	222.43636	8.51561	0.0672436	0.18049021	3.1009894	21	—	—
157855 1998 TU_{22}	15.7	X	47.12748	7.76121	18.59696	1.28622	0.1488454	0.17824655	3.1269574	21	—	—
157856 1998 TK_{23}	17.1	X	196.78231	42.24913	25.35138	4.88907	0.1043897	0.28885889	2.2664470	21	6 4.2	20.4
157857 1998 UR_{1}	17.1	X	83.82593	83.14647	208.67023	4.83558	0.2104581	0.30464455	2.1874616	21	12 11.5	20.5
157858 1998 UO_{37}	14.8	X	72.14083	341.08519	35.60043	13.83124	0.1613358	0.18114237	3.0935420	21	—	—
157859 1998 UM_{49}	15.1	X	164.80780	299.84656	64.77872	6.87262	0.2699885	0.19042296	2.9921946	21	3 4.8	20.4
157860 1998 VV_{25}	15.6	X	135.68634	317.48953	50.36161	2.55830	0.2775700	0.18777074	3.0203047	21	2 12.6	20.5
157861 1998 VK_{48}	14.5	X	6.13598	257.46461	74.38898	4.72023	0.2253576	0.12375152	3.9881273	21	9 22.6	19.0
157862 1998 WW_{11}	14.4	X	344.98217	317.72757	72.96208	13.18457	0.1424269	0.16972313	3.2307898	21	11 3.9	18.3
157863 1998 WG_{26}	16.8	X	18.32209	216.99264	36.49874	7.06949	0.1302820	0.28966071	2.2622624	21	6 25.3	18.7
157864 1998 WL_{39}	16.8	X	77.29844	342.65535	220.98122	5.60982	0.0476906	0.28806455	2.2706115	21	7 9.0	19.5
157865 1998 WT_{39}	14.8	X	149.96720	262.47037	59.99082	11.69459	0.0656224	0.18194284	3.0844619	21	—	—
157866 1998 YY_{4}	15.2	X	49.87998	300.05758	101.93381	6.41952	0.1391936	0.17852128	3.1237484	21	—	—
157867 1999 CK_{23}	16.1	X	8.36887	40.88168	139.38877	7.59451	0.0645589	0.26975909	2.3722038	21	2 16.5	18.5
157868 1999 CO_{89}	16.3	X	303.73931	202.33299	349.00639	3.78387	0.1583573	0.26197053	2.4189919	21	—	—
157869 1999 EQ_{8}	17.2	X	254.69262	251.08848	350.40884	1.01117	0.1473139	0.26031485	2.4292381	21	—	—
157870 1999 EB_{11}	16.6	X	253.26563	189.98409	1.41235	1.92469	0.1613595	0.25350060	2.4725783	21	—	—
157871 1999 ES_{11}	14.9	X	8.78683	139.99628	120.34236	33.11471	0.2300658	0.23062980	2.6334542	21	6 26.8	17.4
157872 1999 GJ_{6}	15.9	X	142.49045	221.08671	18.84782	13.75529	0.1371234	0.24263004	2.5458902	21	11 15.5	20.0
157873 1999 JW_{7}	16.6	X	189.54268	308.01265	230.64277	20.02958	0.0624402	0.37542818	1.9030556	21	11 14.6	18.2
157874 1999 JM_{15}	16.1	X	71.71799	117.41749	197.70314	17.50998	0.2920319	0.23786396	2.5797856	21	12 24.9	20.7
157875 1999 JF_{49}	15.7	X	177.89954	173.52302	52.90641	8.51199	0.1643635	0.24394564	2.5367286	21	12 3.9	19.6
157876 1999 JN_{73}	15.3	X	19.00137	112.70695	64.76349	14.24449	0.1407411	0.22024130	2.7156276	21	3 17.9	18.5
157877 1999 JY_{112}	16.3	X	130.13649	318.29556	319.08200	3.48599	0.1775862	0.24270080	2.5453953	21	12 23.5	20.4
157878 1999 KJ_{2}	17.2	X	191.57177	351.15760	212.93186	3.66265	0.0938092	0.24351117	2.5397451	21	11 26.2	20.8
157879 1999 NR_{53}	15.1	X	56.37635	64.50996	243.40312	14.23093	0.1312110	0.23131870	2.6282230	21	11 11.0	18.8
157880 1999 NO_{60}	15.4	X	145.35811	22.33062	232.64780	11.29480	0.1324079	0.23879253	2.5730934	21	12 9.5	19.5
157881 1999 RZ	15.6	X	326.90330	112.74439	226.39465	5.72489	0.1028082	0.22071107	2.7117728	21	7 26.0	18.8
157882 1999 RV_{1}	15.3	X	231.23701	222.09480	170.75270	10.56790	0.2576629	0.21288662	2.7778181	21	5 21.9	20.2
157883 1999 RF_{38}	15.1	X	11.57618	34.54216	8.23078	16.05151	0.2990461	0.18373593	3.0643614	21	—	—
157884 1999 RV_{44}	15.1	X	327.23357	223.92995	152.60613	12.83782	0.3013904	0.22325139	2.6911625	21	9 2.9	17.0
157885 1999 RD_{78}	15.8	X	114.83540	95.76925	165.76148	10.78501	0.2508721	0.23348775	2.6119207	21	11 25.9	20.5
157886 1999 RG_{85}	15.5	X	285.07630	0.56854	12.96319	2.66528	0.1488684	0.21848737	2.7301415	21	7 3.4	19.2
157887 1999 RS_{178}	15.2	X	315.27121	216.47392	153.62181	12.63263	0.1992098	0.22192699	2.7018587	21	8 7.8	18.0
157888 1999 RE_{188}	15.6	X	171.03120	343.81362	32.82136	3.33151	0.1932609	0.20447498	2.8534872	21	3 16.2	20.4
157889 1999 RO_{195}	14.8	X	297.09339	62.18783	294.78059	14.15079	0.2190423	0.21925297	2.7237823	21	6 16.8	18.3
157890 1999 RV_{200}	15.5	X	285.79983	138.66300	216.76441	13.53918	0.1400009	0.21671296	2.7450239	21	6 10.8	19.3
157891 1999 RA_{228}	15.7	X	87.48563	324.74497	308.11301	13.86018	0.2386787	0.23254741	2.6189570	21	11 9.8	20.2
157892 1999 RG_{248}	15.9	X	89.65056	106.71711	132.29401	5.75683	0.0689613	0.22720402	2.6598596	21	9 17.4	19.5
157893 1999 SU_{22}	16.2	X	304.59876	333.58805	2.07046	3.13103	0.2014041	0.21709115	2.7418349	21	5 31.2	19.6
157894 1999 TK_{16}	15.8	X	137.82182	352.11310	55.03306	3.17395	0.2023083	0.20159012	2.8806460	21	3 24.3	20.3
157895 1999 TH_{23}	15.3	X	318.47387	294.37878	38.27840	5.51949	0.1240040	0.21746838	2.7386633	21	7 1.9	18.6
157896 1999 TA_{43}	16.2	X	116.38597	169.79104	219.90799	1.29125	0.0854988	0.19896264	2.9059515	21	1 23.3	20.2
157897 1999 TV_{76}	16.4	X	277.93640	77.68725	47.27202	0.29447	0.1343079	0.18097289	3.0954731	21	11 15.3	20.3
157898 1999 TZ_{96}	15.4	X	102.42209	324.58374	107.25692	8.26387	0.2792087	0.19880693	2.9074686	21	3 30.8	19.7
157899 1999 TU_{106}	15.2	X	270.16388	151.88663	228.49498	8.03380	0.1706646	0.21788474	2.7351733	21	6 19.3	19.1
157900 1999 TW_{108}	15.5	X	222.67213	167.44608	208.28706	7.77081	0.2410848	0.21036403	2.7999809	21	4 23.6	20.4
157901 1999 TC_{116}	15.5	X	277.52549	144.76200	201.46606	11.36232	0.1766150	0.21422490	2.7662372	21	5 15.2	19.6
157902 1999 TL_{117}	15.2	X	8.47361	148.73299	199.79195	12.63920	0.2791902	0.22610077	2.6685050	21	11 17.8	17.8
157903 1999 TQ_{136}	16.0	X	3.94037	66.32260	243.58267	1.51029	0.1473765	0.22006351	2.7170900	21	8 22.2	18.9
157904 1999 TM_{137}	16.0	X	134.24622	132.63691	233.33453	1.21801	0.1655940	0.19680708	2.9271315	21	1 25.9	20.5
157905 1999 TN_{140}	15.6	X	101.06733	170.09289	214.30375	7.67712	0.1569006	0.19338073	2.9616058	21	1 7.9	19.6
157906 1999 TZ_{147}	15.7	X	237.57679	302.19641	59.44484	4.41438	0.1984452	0.21135362	2.7912340	21	4 21.9	20.3
157907 1999 TY_{154}	15.1	X	286.32741	232.32578	208.42090	11.76130	0.2168798	0.17511598	3.1641145	21	9 16.5	19.3
157908 1999 TO_{156}	15.9	X	308.62373	125.43479	220.72616	4.63201	0.0758345	0.21850446	2.7299991	21	7 10.6	19.4
157909 1999 TA_{183}	15.7	X	193.73960	308.77282	65.66458	3.03977	0.0822913	0.20522529	2.8465281	21	3 31.3	20.0
157910 1999 TU_{204}	15.5	X	31.53506	12.44808	34.99264	9.79684	0.2653710	0.18529953	3.0470986	21	—	—
157911 1999 TU_{236}	15.2	X	297.84724	159.16268	178.92277	11.85832	0.2101135	0.21447079	2.7641225	21	5 26.1	19.0
157912 1999 TG_{255}	16.6	X	205.67989	33.55076	348.76388	3.56083	0.0793242	0.20989178	2.8041792	21	4 19.8	20.8
157913 1999 TY_{267}	15.2	X	338.24867	73.55755	240.90582	11.75689	0.1827707	0.21881205	2.7274402	21	7 3.1	18.1
157914 1999 TR_{291}	14.3	X	272.44432	124.64244	231.82386	32.04609	0.2686159	0.21084084	2.7957579	21	5 10.2	18.6
157915 1999 TF_{306}	16.2	X	14.66852	62.07454	209.47816	2.36200	0.1531142	0.21907309	2.7252730	21	7 17.6	18.9
157916 1999 TE_{311}	15.6	X	183.76853	213.19518	139.45833	2.90977	0.0627176	0.20219181	2.8749282	21	2 20.9	19.8
157917 1999 UF_{8}	15.6	X	318.20287	78.73876	28.05420	1.20332	0.2391193	0.18289553	3.0737414	21	12 20.5	18.6
157918 1999 UZ_{21}	16.1	X	60.54911	220.10409	210.13525	6.63792	0.1381112	0.19314936	2.9639704	21	1 3.2	19.7
157919 1999 UZ_{38}	15.1	X	12.34566	104.73369	229.35748	6.20556	0.3032492	0.22557955	2.6726140	21	11 7.1	17.5
157920 1999 VJ_{32}	15.7	X	318.92591	220.85127	229.77999	2.30623	0.2639930	0.18067699	3.0988519	21	11 26.9	18.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
157921 1999 VV_{35}	15.3	X	260.25786	122.74361	234.12456	6.75325	0.2477382	0.20997629	2.8034267	21	4 30.9	19.8
157922 1999 VS_{54}	15.6	X	162.61575	306.02249	44.31327	2.25739	0.1441884	0.19779423	2.9173843	21	2 3.3	20.2
157923 1999 VX_{78}	17.1	X	197.13943	121.24370	222.01096	4.24573	0.1996461	0.29310383	2.2445109	21	2 14.0	20.8
157924 1999 VO_{84}	15.8	X	82.58082	86.56106	231.75401	1.15305	0.0670345	0.18263271	3.0766895	21	12 8.7	20.3
157925 1999 VO_{88}	15.7	X	248.17515	187.67400	178.37694	2.06082	0.1565860	0.21041605	2.7995193	21	5 10.3	20.0
157926 1999 VB_{100}	15.9	X	151.00915	335.96302	60.84794	2.89497	0.1119393	0.20010803	2.8948521	21	3 16.7	20.3
157927 1999 VA_{111}	15.7	X	310.67794	91.58982	228.66925	8.23875	0.1564942	0.21141838	2.7906640	21	5 27.9	19.0
157928 1999 VR_{123}	15.2	X	5.49619	249.24966	222.91931	9.61095	0.0949104	0.18919640	3.0051129	21	—	—
157929 1999 VF_{139}	15.8	X	240.67533	145.23443	93.09154	4.80932	0.0347651	0.18999980	2.9966357	21	—	—
157930 1999 VX_{141}	16.2	X	153.10957	356.15053	29.27599	2.28025	0.1043197	0.19938017	2.9018931	21	3 3.9	20.6
157931 1999 VC_{149}	15.7	X	6.68784	238.75369	211.38511	5.44799	0.1624082	0.18650570	3.0339469	21	—	—
157932 1999 VO_{154}	16.2	X	245.43082	270.30488	50.10606	2.81081	0.0599168	0.20319979	2.8654129	21	3 21.6	20.3
157933 1999 VS_{189}	15.5	X	16.81417	197.66865	206.47719	5.31842	0.1410782	0.18240095	3.0792952	21	—	—
157934 1999 VM_{197}	15.4	X	315.41793	277.69497	57.87871	14.56160	0.1773699	0.21674894	2.7447201	21	6 21.3	18.7
157935 1999 VA_{209}	15.9	X	327.13825	295.32552	230.50445	9.39129	0.0239265	0.19243234	2.9713286	21	—	—
157936 1999 WO_{15}	16.3	X	64.87552	3.40673	68.32285	1.67249	0.1153640	0.19306832	2.9647998	21	1 11.1	19.9
157937 1999 WT_{25}	16.4	X	322.00119	252.30264	210.84115	1.54469	0.1712959	0.18241202	3.0791706	21	12 26.0	19.7
157938 1999 XB_{57}	15.8	X	73.13537	311.06915	109.66293	2.94731	0.1792565	0.19153797	2.9805709	21	1 17.9	19.1
157939 1999 XJ_{153}	15.0	X	292.61644	139.10758	60.79310	11.34712	0.0550994	0.18949975	3.0019051	21	—	—
157940 1999 XU_{240}	15.6	X	24.24770	10.32419	80.47023	2.16084	0.0285731	0.18903255	3.0068493	21	—	—
157941 1999 XT_{250}	16.1	X	193.98475	284.81896	81.98406	3.15813	0.0916387	0.20224988	2.8743779	21	3 22.9	20.5
157942 1999 YN_{10}	16.2	X	149.47721	243.64993	137.78184	2.98004	0.0865909	0.19691691	2.9260430	21	2 21.4	20.5
157943 2000 AH_{27}	15.2	X	86.04674	342.13655	70.88244	6.42799	0.2431100	0.19069162	2.9893836	21	2 9.0	19.0
157944 2000 AV_{30}	15.2	X	90.04053	331.36239	71.09926	8.28834	0.1847523	0.18874202	3.0099340	21	1 23.3	19.1
157945 2000 AV_{49}	16.3	X	37.41234	2.94559	104.72755	24.06301	0.1574111	0.28079540	2.3096317	21	—	—
157946 2000 AL_{79}	14.8	X	329.21779	279.69074	171.76920	3.72642	0.1830817	0.17954883	3.1118190	21	12 23.4	18.1
157947 2000 AB_{158}	15.5	X	9.19986	16.99696	41.35364	4.14561	0.2699361	0.18163746	3.0879180	21	—	—
157948 2000 AW_{208}	16.8	X	216.90240	100.00683	88.84845	1.34400	0.0877667	0.31223116	2.1518825	21	12 20.3	19.3
157949 2000 BE_{33}	14.5	X	100.89033	206.27895	132.31651	16.82124	0.0491269	0.17769210	3.1334587	21	—	—
157950 2000 CN_{40}	14.8	X	14.96286	296.13800	136.90855	12.90239	0.2567885	0.18125268	3.0922868	21	—	—
157951 2000 CB_{72}	15.7	X	309.19518	327.23623	134.55011	1.30231	0.1487460	0.17524066	3.1626136	21	12 1.1	19.5
157952 2000 CX_{111}	14.6	X	50.27838	272.26441	119.87900	17.41998	0.1174005	0.18094574	3.0957827	21	—	—
157953 2000 CF_{136}	15.1	X	94.83576	184.46239	142.09466	11.56882	0.1334954	0.17423159	3.1748127	21	—	—
157954 2000 DX_{1}	17.3	X	49.72483	152.55438	141.32490	2.43229	0.1364707	0.30059698	2.2070541	21	10 28.2	19.8
157955 2000 DE_{21}	16.7	X	244.67613	231.11137	215.85591	0.25460	0.0663399	0.30116762	2.2042653	21	9 5.6	19.1
157956 2000 DO_{31}	17.2	X	155.74085	156.89111	7.91050	1.33853	0.0962290	0.29794647	2.2201239	21	9 2.1	20.3
157957 2000 DG_{71}	16.2	X	166.01155	161.98132	334.79877	6.30899	0.1396875	0.29510039	2.2343757	21	8 6.9	19.4
157958 2000 DL_{86}	16.6	X	73.29408	117.23116	92.35867	4.92928	0.1092579	0.29214136	2.2494380	21	7 24.5	19.2
157959 2000 DL_{113}	15.3	X	266.88676	308.77372	147.25249	4.53699	0.1155846	0.16834635	3.2483806	21	9 28.3	19.8
157960 2000 EP_{53}	17.4	X	22.80679	140.25582	152.85665	0.95813	0.1269603	0.29278218	2.2461545	21	9 9.1	19.4
157961 2000 EY_{79}	15.2	X	274.86773	46.87292	62.08288	4.06536	0.1309080	0.16975988	3.2303234	21	10 22.2	19.6
157962 2000 EX_{122}	17.0	X	44.99466	77.30204	169.03361	5.84076	0.1020842	0.29158793	2.2522833	21	7 31.5	19.3
157963 2000 EO_{129}	16.6	X	200.58968	315.17867	152.50650	6.06811	0.0719630	0.29554835	2.2321173	21	8 5.9	19.4
157964 2000 ET_{134}	16.5	X	11.47352	194.70950	25.56605	6.89209	0.1232331	0.28284788	2.2984449	21	4 15.9	18.6
157965 2000 FY_{57}	16.3	X	48.43565	140.53663	42.31934	6.88528	0.0396703	0.28417983	2.2912574	21	4 23.7	18.8
157966 2000 GY_{3}	17.5	X	68.43038	144.32948	40.07263	3.16824	0.1293956	0.28541186	2.2846589	21	6 10.6	19.8
157967 2000 GX_{21}	17.2	X	19.24402	79.61236	160.00440	2.05758	0.1766246	0.28500123	2.2868529	21	6 6.9	18.6
157968 2000 GP_{24}	17.1	X	333.69859	66.18238	205.18129	4.47483	0.2566870	0.28140716	2.3062831	21	3 30.1	19.2
157969 2000 GE_{29}	17.0	X	289.06155	274.62289	333.32457	1.54990	0.1713727	0.27383410	2.3486106	21	1 15.0	20.5
157970 2000 GJ_{30}	16.5	X	283.87436	133.75700	191.22783	4.73849	0.2327099	0.28219162	2.3020070	21	4 10.8	19.7
157971 2000 GN_{53}	17.2	X	336.95150	16.85214	241.67855	0.04726	0.1361095	0.28103542	2.3083164	21	4 7.6	19.2
157972 2000 GY_{78}	17.0	X	3.21450	212.74114	63.82336	2.02515	0.2017831	0.28503291	2.2866834	21	7 2.4	18.3
157973 2000 GY_{80}	16.6	X	284.88601	249.23917	39.95035	5.30312	0.1526183	0.27810333	2.3245127	21	3 8.1	19.7
157974 2000 GM_{86}	16.8	X	102.08053	140.92482	54.83789	9.06061	0.1948230	0.29228292	2.2487116	21	8 28.1	20.2
157975 2000 GQ_{138}	16.9	X	114.05268	97.07871	60.83385	7.25033	0.1023307	0.28850180	2.2683167	21	7 4.1	19.9
157976 2000 HC_{6}	16.6	X	307.15686	280.42605	31.03736	5.00048	0.1718483	0.28191689	2.3035023	21	4 30.7	19.1
157977 2000 HN_{6}	17.1	X	53.37963	135.10879	34.02575	2.92889	0.0595476	0.27981072	2.3150470	21	4 13.3	19.6
157978 2000 HD_{25}	16.6	X	112.77438	256.21049	239.02334	4.17810	0.1657034	0.28573375	2.2829427	21	6 8.5	19.5
157979 2000 HB_{28}	16.0	X	141.69516	237.12203	225.93475	22.84005	0.2554752	0.28609891	2.2809998	21	6 3.2	19.9
157980 2000 HY_{59}	17.0	X	301.46641	241.16871	31.71756	2.11653	0.1114346	0.27741433	2.3283600	21	3 10.7	19.8
157981 2000 HD_{65}	17.0	X	78.77890	94.68656	52.17104	5.64211	0.1893497	0.28308330	2.2971704	21	5 12.5	19.3
157982 2000 HJ_{93}	16.2	X	204.41850	154.29347	223.44148	7.61523	0.1275951	0.27866305	2.3213990	21	4 5.9	19.8
157983 2000 HL_{96}	16.4	X	65.21837	45.91855	160.46237	6.77637	0.1159968	0.28620491	2.2804366	21	7 6.6	18.9
157984 2000 JP_{1}	16.7	X	85.63950	108.55242	79.35662	6.57060	0.0841335	0.28812474	2.2702953	21	7 5.6	19.2
157985 2000 JB_{34}	17.0	X	48.57000	316.45549	244.19139	3.26117	0.1638374	0.28304692	2.2973672	21	6 6.1	18.7
157986 2000 KO_{7}	16.6	X	283.89024	67.78587	203.16125	2.79809	0.1409459	0.27259981	2.3556947	21	2 9.9	19.9
157987 2000 KX_{12}	17.1	X	19.80544	293.37221	254.44791	2.61778	0.1425238	0.27774909	2.3264887	21	3 10.6	19.0
157988 2000 KT_{16}	16.5	X	355.34212	357.51037	242.42036	4.95355	0.1159138	0.27941354	2.3172404	21	4 14.4	18.8
157989 2000 KU_{26}	16.2	X	291.92188	67.76403	256.84167	5.68575	0.2234389	0.27834392	2.3231730	21	4 18.9	19.3
157990 2000 KE_{29}	16.8	X	321.18969	172.54434	71.09975	8.38021	0.1664960	0.27462878	2.3440778	21	2 20.5	19.8
157991 2000 KZ_{42}	16.8	X	289.78610	176.30633	111.32743	4.13398	0.2197750	0.27514198	2.3411620	21	3 2.9	20.2
157992 2000 KP_{52}	17.2	X	23.16205	68.14872	185.61716	4.62034	0.1482020	0.28501542	2.2867770	21	7 7.6	19.1
157993 2000 LP_{8}	16.9	X	358.05181	92.69151	109.29571	5.23063	0.1964898	0.27546957	2.3393056	21	2 12.7	19.0
157994 2000 LH_{15}	16.1	X	336.75504	209.43016	101.44094	6.70539	0.2675328	0.28271944	2.2991410	21	6 11.3	17.5
157995 2000 LF_{26}	16.1	X	325.96502	139.64312	173.20100	11.11519	0.2963097	0.28013301	2.3132711	21	5 15.9	18.4
157996 2000 LW_{26}	16.7	X	1.35328	210.16875	78.22319	6.50651	0.2295371	0.28553297	2.2840129	21	7 22.3	17.8
157997 2000 LG_{32}	13.3	X	235.00666	63.56503	242.36669	12.08953	0.1932629	0.12441673	3.9738993	21	2 16.6	19.8
157998 2000 OU_{8}	16.3	X	232.69902	171.38303	130.77894	13.42969	0.2086871	0.26509661	2.3999375	21	1 29.6	20.2
157999 2000 OE_{9}	14.4	X	253.45909	123.45972	156.14904	6.49320	0.2259789	0.12402033	3.9823625	21	2 4.9	20.8
158000 2000 OK_{33}	14.0	X	263.07657	46.06927	225.39670	7.46621	0.1417747	0.12475071	3.9668037	21	2 9.2	20.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
158001 2000 OY_{53}	16.8	X	198.14234	241.31165	69.82136	2.25823	0.1914403	0.26155769	2.4215367	21	1 12.7	20.7
158002 2000 PG_{7}	16.2	X	272.09841	115.33882	179.77902	6.39911	0.2208630	0.26880090	2.3778378	21	2 21.1	20.0
158003 2000 PN_{12}	15.9	X	190.00003	120.35910	222.68688	10.36774	0.2111063	0.26282933	2.4137197	21	2 9.6	20.1
158004 2000 QY_{19}	16.8	X	168.95318	330.40545	1.60790	1.47974	0.2053755	0.25778441	2.4451093	21	1 13.7	20.6
158005 2000 QO_{23}	16.5	X	138.57133	283.11094	58.65301	3.38770	0.2063466	0.25511250	2.4621521	21	—	—
158006 2000 QS_{25}	16.2	X	231.81097	171.35360	122.07519	16.08454	0.2379599	0.26283690	2.4136733	21	1 18.5	20.3
158007 2000 QZ_{36}	16.4	X	205.96601	163.15799	162.49718	7.34981	0.1576544	0.26311122	2.4119954	21	2 3.5	20.3
158008 2000 QD_{47}	17.1	X	222.24892	169.21593	121.35356	2.21454	0.2046921	0.26169207	2.4207076	21	1 7.9	21.0
158009 2000 QP_{106}	16.9	X	226.83227	256.01878	67.16515	1.71629	0.2322669	0.26513475	2.3997073	21	2 19.6	20.9
158010 2000 QU_{109}	16.0	X	317.90888	205.59454	205.96608	4.13576	0.2050003	0.23398034	2.6082535	21	10 18.3	18.2
158011 2000 QP_{112}	15.9	X	86.40089	164.86784	170.98445	13.64289	0.0325337	0.24630245	2.5205205	21	—	—
158012 2000 QE_{114}	17.2	X	225.29582	129.90376	190.25821	1.98570	0.2411697	0.26382943	2.4076160	21	2 13.5	21.5
158013 2000 QW_{148}	15.9	X	253.86187	190.94067	108.16790	24.38573	0.1579223	0.26730654	2.3866917	21	2 19.1	19.9
158014 2000 QP_{165}	15.8	X	53.52014	94.12532	180.90773	10.26958	0.1363626	0.23645093	2.5900533	21	9 27.5	19.0
158015 2000 QT_{177}	16.7	X	178.59600	155.84061	184.60449	4.70150	0.1927781	0.25967832	2.4332062	21	1 29.9	20.6
158016 2000 QX_{177}	16.9	X	203.16982	128.34905	191.96700	3.48665	0.1547140	0.26096353	2.4252109	21	1 25.7	20.8
158017 2000 QO_{178}	16.4	X	147.61267	145.68360	218.69311	5.42554	0.1462655	0.25856341	2.4401958	21	1 24.0	19.9
158018 2000 QY_{219}	16.8	X	213.29556	33.44484	273.16029	1.91795	0.1894424	0.26257310	2.4152897	21	1 19.3	20.7
158019 2000 QJ_{224}	16.8	X	121.02687	69.70738	281.34381	1.39252	0.2620064	0.25226623	2.4806375	21	—	—
158020 2000 QR_{254}	15.8	X	201.41057	231.42017	81.29285	14.39494	0.1489540	0.25960626	2.4336565	21	1 16.7	19.7
158021 2000 RQ	15.9	X	22.39269	189.90311	208.88840	13.22825	0.0814619	0.24651168	2.5190941	21	—	—
158022 2000 RY_{11}	15.2	X	3.28946	163.67900	187.56056	33.10429	0.1994295	0.23457173	2.6038678	21	11 1.1	18.1
158023 2000 RP_{22}	16.0	X	327.47652	184.78106	215.95239	5.05768	0.3106110	0.23508572	2.6000711	21	10 18.5	17.2
158024 2000 RK_{25}	15.9	X	1.40520	153.36990	197.24339	12.10249	0.1244394	0.23665518	2.5885628	21	10 18.1	18.6
158025 2000 RG_{72}	15.7	X	356.66748	202.08819	204.51325	5.72549	0.2671579	0.23813905	2.5777985	21	—	—
158026 2000 RO_{80}	15.7	X	102.98486	161.00101	214.64215	5.62928	0.2679308	0.25185813	2.4833165	21	1 2.2	18.4
158027 2000 SN_{5}	16.1	X	206.69647	114.70366	226.67969	8.40953	0.1872717	0.26585564	2.3953674	21	2 20.9	20.2
158028 2000 SS_{9}	15.3	X	268.15049	280.46456	195.97276	27.54106	0.1387514	0.23809079	2.5781469	21	11 1.4	18.6
158029 2000 SQ_{31}	17.0	X	175.26828	23.09972	294.14133	1.62914	0.2053217	0.25661352	2.4525415	21	1 1.5	20.8
158030 2000 SU_{34}	16.6	X	206.83410	161.67479	161.61653	2.83237	0.2033739	0.26125372	2.4234146	21	2 3.2	20.7
158031 2000 SV_{36}	16.5	X	147.96736	306.63415	31.19161	8.65472	0.2647876	0.25463911	2.4652027	21	1 8.5	20.4
158032 2000 SR_{38}	15.4	X	140.71933	28.69206	28.12323	14.28702	0.1928527	0.21298945	2.7769240	21	4 6.6	19.7
158033 2000 SW_{40}	16.3	X	314.37229	165.93487	228.77426	10.54131	0.2134267	0.23276836	2.6172995	21	9 7.4	19.0
158034 2000 SB_{50}	16.4	X	164.92043	116.77425	217.86139	5.91266	0.1330458	0.25633062	2.4543456	21	1 5.2	20.1
158035 2000 SA_{56}	16.0	X	189.11039	302.63821	348.10241	4.21556	0.1367809	0.25469642	2.4648329	21	—	—
158036 2000 SJ_{57}	16.6	X	170.65119	129.65590	201.24721	4.00056	0.1548133	0.25658264	2.4527382	21	1 8.8	20.2
158037 2000 SD_{66}	16.4	X	262.39280	273.70468	11.89264	8.26108	0.2841735	0.26529791	2.3987233	21	2 1.8	20.7
158038 2000 SF_{67}	16.4	X	59.44469	342.27278	5.91923	4.25557	0.1172927	0.24305811	2.5429001	21	—	—
158039 2000 SP_{76}	15.7	X	331.61274	193.26614	176.96517	14.22615	0.1500476	0.23259059	2.6186329	21	9 18.3	18.2
158040 2000 SB_{80}	16.6	X	47.22016	154.64626	166.41238	4.29213	0.1643135	0.23922561	2.5699871	21	11 24.4	19.9
158041 2000 SY_{89}	15.9	X	340.73969	135.77939	251.87277	12.91311	0.1418546	0.23872153	2.5736036	21	10 31.7	18.7
158042 2000 SK_{112}	15.8	X	264.51104	175.52487	195.14030	17.00980	0.1356937	0.22433421	2.6824958	21	6 5.3	19.9
158043 2000 SQ_{121}	15.5	X	305.20921	343.16188	31.95310	14.06111	0.2609964	0.22960227	2.6413053	21	7 21.9	18.7
158044 2000 SY_{125}	16.3	X	30.91378	222.25625	139.35218	6.25112	0.2748321	0.23957534	2.5674853	21	—	—
158045 2000 SC_{133}	14.8	X	313.75991	78.97298	217.75016	16.47437	0.0830967	0.17715963	3.1397341	21	5 14.4	19.0
158046 2000 SE_{139}	16.7	X	190.76853	90.25132	212.59180	9.94713	0.2537394	0.25664097	2.4523666	21	—	—
158047 2000 SE_{181}	16.3	X	194.92744	285.94216	50.54303	8.10502	0.2776749	0.26176134	2.4202806	21	2 15.4	20.7
158048 2000 SR_{183}	16.6	X	205.79373	167.81707	145.99014	7.63454	0.1480464	0.25989786	2.4318358	21	1 20.5	20.4
158049 2000 SX_{189}	15.9	X	53.97466	299.51243	25.20180	13.82358	0.2435355	0.23936578	2.5689836	21	12 14.8	19.8
158050 2000 SQ_{198}	16.7	X	23.40129	129.61998	193.23165	3.18870	0.1166175	0.23595455	2.5936845	21	10 14.7	19.5
158051 2000 SP_{206}	16.4	X	57.20472	182.08622	195.55564	5.29814	0.1371133	0.24434002	2.5339982	21	—	—
158052 2000 SE_{226}	16.3	X	163.86220	197.91763	153.58497	8.65615	0.2699034	0.25579672	2.4577596	21	2 6.1	20.3
158053 2000 SW_{228}	16.2	X	265.17887	297.12216	354.41019	1.82917	0.2062859	0.26356946	2.4091989	21	2 13.8	20.1
158054 2000 SY_{228}	15.7	X	101.92518	115.29199	207.21622	11.41227	0.0385994	0.24335853	2.5408070	21	—	—
158055 2000 SP_{234}	16.0	X	290.72941	341.44086	76.30229	6.09844	0.2144774	0.23262451	2.6183783	21	9 4.9	19.0
158056 2000 SD_{250}	16.5	X	54.62810	303.84621	84.23548	3.68254	0.1222833	0.24661837	2.5183675	21	—	—
158057 2000 SK_{272}	15.9	X	185.24046	257.80294	213.78040	7.54922	0.1943053	0.22361447	2.6882487	21	7 18.5	20.5
158058 2000 SZ_{322}	15.2	X	186.39861	355.72492	206.68299	24.09789	0.1015201	0.23842010	2.5757723	21	11 17.6	19.2
158059 2000 SW_{358}	15.3	X	183.61597	12.71040	87.02620	13.67456	0.1576701	0.22355199	2.6887495	21	7 4.2	19.7
158060 2000 TO_{12}	16.3	X	244.39056	247.53423	149.78831	7.89704	0.1749642	0.22384962	2.6863657	21	6 13.2	20.6
158061 2000 TJ_{18}	16.2	X	6.27093	148.90066	220.77886	4.27848	0.1220397	0.23656888	2.5891923	21	11 21.6	19.2
158062 2000 TJ_{38}	16.5	X	213.59524	241.99274	87.90108	4.45588	0.2335810	0.26331300	2.4107630	21	2 18.5	20.6
158063 2000 TD_{40}	16.5	X	80.83197	246.02455	85.72497	5.14744	0.2199374	0.24587884	2.5234146	21	—	—
158064 2000 TT_{42}	16.7	X	182.57263	274.75831	51.39382	10.09543	0.2612344	0.25866591	2.4395511	21	1 23.9	21.0
158065 2000 TH_{57}	16.1	X	277.18227	332.58731	70.11710	13.96864	0.2425089	0.22930405	2.6435949	21	7 19.2	19.9
158066 2000 TN_{58}	16.8	X	184.04639	258.30715	44.67472	10.81071	0.2760614	0.25515808	2.4618589	21	—	—
158067 2000 UF_{5}	15.7	X	81.38998	283.58889	48.54154	7.28827	0.1370516	0.24097524	2.5575321	21	—	—
158068 2000 UV_{11}	14.9	X	1.68499	62.47433	254.63306	9.05337	0.0298953	0.18125216	3.0922926	21	8 16.9	19.2
158069 2000 UN_{17}	16.2	X	29.06690	278.79131	95.57223	5.27744	0.2596190	0.24029099	2.5623851	21	—	—
158070 2000 UH_{22}	16.5	X	6.73872	195.63990	188.46100	4.82321	0.3023491	0.23799261	2.5788558	21	—	—
158071 2000 UG_{29}	15.6	X	246.73309	22.35404	41.24655	22.56780	0.0363551	0.22602585	2.6690946	21	8 18.2	19.8
158072 2000 UP_{38}	16.1	X	353.03348	116.90972	245.96578	3.23442	0.1670200	0.23373765	2.6100587	21	10 21.6	18.7
158073 2000 UJ_{41}	15.7	X	248.44469	186.90542	224.26600	8.48857	0.2521091	0.22406849	2.6846161	21	6 25.8	20.0
158074 2000 UB_{49}	15.6	X	297.12155	337.79479	52.46623	14.63585	0.1708213	0.22779347	2.6552691	21	8 18.0	19.1
158075 2000 US_{50}	15.6	X	30.36535	133.33939	234.69007	11.63328	0.1662734	0.23742464	2.5829670	21	12 30.5	19.1
158076 2000 UO_{60}	15.7	X	239.72598	201.97780	223.80746	11.10621	0.1575245	0.22533232	2.6745685	21	7 13.5	20.0
158077 2000 UJ_{81}	16.2	X	47.41058	185.55384	178.31772	4.24697	0.2088225	0.24044428	2.5612959	21	—	—
158078 2000 UX_{90}	16.2	X	49.49082	259.75030	111.25305	6.55902	0.2144671	0.24120279	2.5559234	21	—	—
158079 2000 UW_{106}	15.8	X	55.68150	288.06565	71.98493	11.44985	0.1454541	0.24189975	2.5510116	21	—	—
158080 2000 US_{107}	16.0	X	319.14178	327.73334	83.01937	8.85911	0.1824721	0.23354187	2.6115171	21	10 26.1	18.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
158081 2000 VP	15.7	X	344.22289	180.82108	216.21757	4.91800	0.1491899	0.23545456	2.5973550	21	11 23.6	18.1
158082 2000 VT_{4}	15.9	X	32.19472	165.81926	194.06072	3.76360	0.0466521	0.23716525	2.5848500	21	12 6.3	19.2
158083 2000 VK_{12}	16.0	X	209.08437	231.35038	206.13123	8.84281	0.2623957	0.22100220	2.7093908	21	6 25.1	20.8
158084 2000 VX_{12}	16.0	X	275.99648	294.70150	112.68801	1.89013	0.1909149	0.17882110	3.1202558	21	7 29.0	20.3
158085 2000 VU_{30}	15.6	X	262.88389	200.55454	219.09047	11.06840	0.1656038	0.22497633	2.6773891	21	7 29.9	19.6
158086 2000 VT_{44}	16.8	X	357.36849	294.72071	51.42540	21.84075	0.0855852	0.37327529	1.9103659	21	10 31.6	18.3
158087 2000 VN_{48}	15.7	X	16.18706	118.32429	252.18108	3.56148	0.2707856	0.23709798	2.5853389	21	12 31.4	18.7
158088 2000 WV_{15}	16.1	X	106.17569	71.34761	65.46845	8.43266	0.1676727	0.21348462	2.7726283	21	6 5.1	20.0
158089 2000 WT_{25}	16.8	X	8.56237	348.72746	15.61014	1.43393	0.1968632	0.23526116	2.5987783	21	11 27.7	19.5
158090 2000 WL_{47}	15.4	X	202.78582	302.12226	94.19486	9.52436	0.1518876	0.21542099	2.7559883	21	5 7.1	19.9
158091 2000 WH_{56}	14.7	X	234.15432	69.37792	303.04883	20.61028	0.3503667	0.26205637	2.4184637	21	4 9.7	19.7
158092 Frasercain	15.6	X	69.72475	103.74878	58.15775	10.03658	0.1661000	0.21207575	2.7848942	21	5 21.3	19.0
158093 2000 WT_{89}	15.9	X	270.29789	289.85260	65.71086	6.15504	0.0884153	0.21912929	2.7248071	21	5 29.4	19.6
158094 2000 WX_{90}	15.4	X	88.75332	90.81643	256.51183	3.07553	0.1668374	0.24244470	2.5471875	21	—	—
158095 2000 WH_{100}	15.7	X	297.03030	326.53462	70.22350	4.61029	0.2355275	0.22689394	2.6622824	21	8 10.5	18.8
158096 2000 WV_{146}	15.3	X	297.26221	342.15237	65.12366	33.23212	0.1459317	0.23152984	2.6266250	21	10 4.6	19.3
158097 2000 WH_{164}	15.3	X	289.43919	298.36508	103.13972	12.01664	0.1703616	0.22779448	2.6552612	21	8 17.1	18.6
158098 2000 WZ_{190}	15.5	X	49.11659	283.70679	78.46234	15.03675	0.1173293	0.24152883	2.5536227	21	—	—
158099 2000 XX_{2}	15.3	X	80.90797	330.80919	12.81969	15.09776	0.1628943	0.24244502	2.5471853	21	—	—
158100 2000 XE_{11}	14.7	X	110.78505	16.34777	305.86091	12.62500	0.1599175	0.24453349	2.5326615	21	—	—
158101 2000 XN_{26}	14.2	X	126.78065	283.86781	63.75742	15.78335	0.1351580	0.24513339	2.5285278	21	—	—
158102 2000 XD_{30}	15.2	X	258.54664	336.62651	48.22901	14.37707	0.1576042	0.21869741	2.7283932	21	6 11.8	19.4
158103 2000 XC_{39}	16.5	X	64.66522	140.91533	59.61912	22.74433	0.0471978	0.35729281	1.9669192	21	6 9.3	18.3
158104 2000 YE_{5}	16.8	X	18.52089	282.76371	82.31685	23.66535	0.0894281	0.37663418	1.8989910	21	—	—
158105 2000 YH_{12}	15.3	X	343.15610	229.83789	96.06548	24.32255	0.2988116	0.27927564	2.3180031	21	8 2.3	16.5
158106 2000 YB_{18}	15.5	X	250.22825	312.22610	99.04000	14.28411	0.1703136	0.22356639	2.6886342	21	7 7.2	19.4
158107 2000 YB_{48}	15.5	X	275.08617	83.86566	105.16994	3.25167	0.2702724	0.18860357	3.0114069	21	—	—
158108 2000 YB_{95}	15.4	X	261.15009	265.83919	118.78588	7.06987	0.0866475	0.21692053	2.7432725	21	6 26.1	19.1
158109 2000 YG_{112}	15.7	X	169.95340	339.29180	88.28179	9.25754	0.2057771	0.21148509	2.7900772	21	5 16.2	20.4
158110 2001 AW_{21}	15.8	X	205.32102	2.51369	64.26633	4.97136	0.0940027	0.21554747	2.7549101	21	6 15.4	19.8
158111 2001 AM_{43}	15.3	X	292.84197	329.20017	39.79306	10.85705	0.2766882	0.22198736	2.7013689	21	6 16.0	18.9
158112 2001 BZ_{65}	15.0	X	272.05008	346.26510	149.36553	16.35607	0.2116891	0.18056159	3.1001720	21	11 14.0	19.4
158113 2001 BX_{69}	15.0	X	269.12877	356.28724	147.20865	18.39368	0.1528993	0.17998416	3.1067992	21	11 27.9	19.5
158114 2001 BR_{77}	16.0	X	325.40453	170.49932	325.33118	1.00094	0.1441803	0.18946057	3.0023189	21	—	—
158115 2001 CQ_{1}	15.1	X	353.90694	320.57448	122.65224	7.88854	0.1161911	0.18592442	3.0402672	21	—	—
158116 2001 CM_{5}	15.8	X	353.27368	60.90866	76.68745	1.92618	0.1697660	0.19256593	2.9699541	21	—	—
158117 2001 CN_{8}	15.3	X	243.62144	71.26718	135.16612	13.09078	0.2550079	0.18225400	3.0809502	21	12 25.3	20.0
158118 2001 CL_{15}	15.8	X	296.45962	125.61808	60.15612	2.63469	0.1633239	0.18954391	3.0014388	21	—	—
158119 2001 DX_{5}	14.7	X	188.94276	185.53152	27.82068	10.92286	0.1634873	0.17714662	3.1398879	21	11 18.4	19.9
158120 2001 DK_{20}	15.3	X	285.07621	91.38310	49.82020	9.59886	0.2143400	0.18288878	3.0738171	21	12 4.1	18.9
158121 2001 DU_{31}	15.6	X	284.15483	21.81733	150.63103	15.75086	0.1525448	0.18481463	3.0524260	21	—	—
158122 2001 DV_{37}	15.0	X	255.82208	121.05551	115.79603	14.38038	0.0612221	0.19102195	2.9859363	21	—	—
158123 2001 DB_{44}	14.9	X	182.23121	249.48589	331.39636	12.44432	0.2545034	0.17555249	3.1588674	21	11 15.9	20.6
158124 2001 DL_{61}	15.3	X	238.60014	193.29453	354.06471	1.53836	0.2008549	0.18281856	3.0746040	21	12 3.7	19.8
158125 2001 DQ_{87}	15.6	X	43.76853	348.63659	121.64952	9.18542	0.1483961	0.19711960	2.9240369	21	1 27.5	18.6
158126 2001 EU_{4}	15.1	X	192.43302	106.62280	152.45352	14.93670	0.0714013	0.18244548	3.0787940	21	—	—
158127 2001 EP_{21}	14.7	X	237.02231	57.35170	193.84385	10.41014	0.1736288	0.18647663	3.0342622	21	—	—
158128 2001 ES_{26}	15.0	X	162.58859	25.93511	192.89905	5.33318	0.1231953	0.17323290	3.1870029	21	11 5.1	20.0
158129 2001 FA_{2}	14.4	X	165.91103	122.00502	168.80901	22.85001	0.2495463	0.17614222	3.1518128	21	—	—
158130 2001 FM_{9}	15.1	X	178.47194	110.15421	145.31147	6.01223	0.1064324	0.17752321	3.1354458	21	12 31.9	20.1
158131 2001 FT_{10}	15.0	X	175.06369	119.38158	188.12499	14.43240	0.0460045	0.18541139	3.0458728	21	—	—
158132 2001 FM_{17}	14.1	X	109.92638	288.64897	11.59358	10.21868	0.1466023	0.17284016	3.1918289	21	12 20.6	19.3
158133 2001 FT_{26}	14.9	X	238.14396	327.18018	197.24781	17.46402	0.1782057	0.17605440	3.1528607	21	11 9.8	19.8
158134 2001 FT_{64}	15.4	X	272.05106	134.01141	38.99259	5.91516	0.1191007	0.18174374	3.0867141	21	—	—
158135 2001 FL_{65}	14.7	X	240.10032	26.16343	157.50048	9.76149	0.0966460	0.17845867	3.1244791	21	12 14.6	19.3
158136 2001 FM_{67}	14.9	X	276.89997	316.50165	174.21245	15.03758	0.1245779	0.17774477	3.1328396	21	11 24.3	19.3
158137 2001 FB_{71}	15.1	X	195.35396	41.41625	151.31118	7.41953	0.1679461	0.17294212	3.1905743	21	11 4.0	20.3
158138 2001 FE_{81}	14.8	X	204.97824	313.04568	212.17348	13.38105	0.2310792	0.17372925	3.1809298	21	10 3.8	20.2
158139 2001 FT_{92}	14.9	X	239.15587	85.37072	87.16906	8.60637	0.1785246	0.17811651	3.1284792	21	11 20.6	19.6
158140 2001 FO_{100}	15.0	X	257.80318	1.31379	165.34493	11.12695	0.0822533	0.18004363	3.1061151	21	12 17.6	19.5
158141 2001 FL_{102}	14.9	X	170.63032	339.54762	290.68077	7.51701	0.0499298	0.18035677	3.1025187	21	—	—
158142 2001 FA_{106}	15.2	X	251.59954	151.46826	8.24397	11.08083	0.1100888	0.17961500	3.1110547	21	11 24.2	19.7
158143 2001 FL_{107}	15.2	X	325.49162	306.86356	165.07949	13.70889	0.0459869	0.18183262	3.0857082	21	—	—
158144 2001 FT_{115}	14.9	X	159.55819	103.21095	193.34964	9.53654	0.0784005	0.18071473	3.0984205	21	—	—
158145 2001 FP_{121}	14.8	X	199.77773	183.44530	74.31673	10.95477	0.0426468	0.18098868	3.0952930	21	—	—
158146 2001 FU_{124}	15.1	X	294.78219	322.00104	181.72582	22.64524	0.0543948	0.17968455	3.1102519	21	—	—
158147 2001 FH_{130}	14.9	X	209.07060	62.94653	191.52854	9.32276	0.0989258	0.18258153	3.0772645	21	—	—
158148 2001 FN_{146}	14.9	X	247.88897	292.07393	234.05118	8.69170	0.0751518	0.17753853	3.1352653	21	12 4.9	19.2
158149 2001 FS_{152}	15.2	X	209.63460	55.45446	103.50054	6.32703	0.1153589	0.17304733	3.1892810	21	10 13.2	20.1
158150 2001 GV_{8}	14.6	X	164.83345	231.20023	59.22159	17.30272	0.2097647	0.17704422	3.1410985	21	—	—
158151 2001 HK_{11}	14.5	X	150.32522	70.99830	204.11676	8.79790	0.0637502	0.17447304	3.1718830	21	12 27.2	19.4
158152 2001 HO_{50}	14.3	X	80.78747	221.90318	66.97151	33.10370	0.1438792	0.16520817	3.2893875	21	11 15.3	19.4
158153 2001 KE_{49}	17.4	X	191.76513	85.87134	224.86975	1.62075	0.2253719	0.32574686	2.0919400	21	—	—
158154 2001 NY	16.4	X	336.65310	349.09498	60.42007	4.63959	0.1199702	0.30652628	2.1785000	21	12 15.2	18.1
158155 2001 NA_{22}	15.9	X	211.93133	201.21017	165.42191	6.89295	0.1322288	0.27999710	2.3140196	21	4 1.9	19.3
158156 2001 OR_{10}	13.9	X	151.31098	53.68263	306.08188	14.68005	0.1979559	0.17497774	3.1657808	21	2 8.4	19.0
158157 2001 OE_{60}	16.7	X	154.86085	21.40423	196.76939	2.10565	0.0671742	0.30764740	2.1732043	21	11 14.7	19.3
158158 2001 OP_{94}	14.6	X	176.37177	232.90730	115.45451	9.52543	0.3123909	0.12566999	3.9474351	21	2 28.4	21.4
158159 2001 PZ_{7}	16.6	X	195.30101	327.75506	54.77933	7.74685	0.1149224	0.28092589	2.3089164	21	4 6.9	20.0
158160 2001 PC_{20}	17.0	X	16.32221	249.16209	72.32630	3.71984	0.2340204	0.29967492	2.2115790	21	11 1.9	18.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
158161 2001 QE_{17}	16.5	X	170.14848	97.82996	311.56813	2.60664	0.1906253	0.27907712	2.3191022	21	4 15.9	20.3
158162 2001 QW_{23}	16.5	X	267.88552	1.24597	8.88814	4.29480	0.2156488	0.28773607	2.2723393	21	5 24.7	19.8
158163 2001 QB_{73}	16.8	X	201.26088	11.26956	20.87446	4.40797	0.1637311	0.28212051	2.3023938	21	4 22.3	20.4
158164 2001 QL_{73}	15.6	X	295.47026	228.93738	123.72269	24.55972	0.2457289	0.28885963	2.2664431	21	6 7.3	18.8
158165 2001 QS_{88}	17.2	X	111.13825	310.88871	158.88537	1.86870	0.1499304	0.28129655	2.3068877	21	4 30.1	20.0
158166 2001 QG_{105}	16.7	X	242.73705	297.28840	90.28437	5.09438	0.1126694	0.28876614	2.2669322	21	6 2.3	19.8
158167 2001 QS_{197}	16.2	X	206.95431	151.08044	233.00299	5.99554	0.2097821	0.27775801	2.3264389	21	4 16.5	19.9
158168 2001 QQ_{206}	17.6	X	309.09615	25.51396	342.42328	1.76416	0.1986164	0.29362089	2.2418751	21	7 28.5	19.3
158169 2001 QR_{215}	16.2	X	116.16829	33.56796	2.94162	2.46286	0.1728173	0.26923916	2.3752568	21	1 31.4	19.0
158170 2001 QN_{221}	13.9	X	188.08393	115.57604	215.83356	8.23543	0.1728871	0.12615874	3.9372334	21	2 10.5	20.3
158171 2001 QD_{231}	16.8	X	347.83842	158.11042	214.61885	6.56668	0.1338879	0.30005723	2.2097000	21	11 9.6	18.6
158172 2001 QD_{239}	16.4	X	75.26218	232.06379	173.51465	2.11856	0.2081903	0.26492974	2.4009452	21	—	—
158173 2001 QH_{247}	16.3	X	276.41432	170.97308	164.18932	6.35209	0.1815305	0.28379309	2.2933385	21	4 24.2	19.5
158174 2001 QB_{251}	16.5	X	28.42624	271.70762	61.78261	8.33954	0.1037916	0.30092557	2.2054471	21	11 16.9	18.8
158175 2001 QE_{260}	16.5	X	43.69897	4.26356	283.22706	5.65985	0.1052995	0.29626405	2.2285211	21	9 29.3	19.1
158176 2001 QO_{264}	16.3	X	165.79197	47.21463	344.82238	2.04402	0.2208480	0.27442658	2.3452291	21	3 24.0	20.1
158177 2001 QQ_{277}	16.6	X	60.35493	255.61323	59.45977	6.60304	0.1948911	0.30386262	2.1912127	21	12 16.0	19.6
158178 2001 QJ_{291}	15.9	X	162.36313	217.70439	155.36388	6.29047	0.1328054	0.27188028	2.3598492	21	2 18.0	19.1
158179 2001 QM_{295}	16.7	X	165.71606	27.63074	3.13362	3.50034	0.2479063	0.27332879	2.3515044	21	3 24.5	20.6
158180 2001 RX_{1}	17.0	X	199.36103	238.07572	172.24108	3.95890	0.1983803	0.28227073	2.3015769	21	5 15.5	20.8
158181 2001 RH_{5}	16.4	X	197.15460	187.92773	234.41685	2.22824	0.1356361	0.28374971	2.2935723	21	5 28.9	19.7
158182 2001 RM_{13}	16.5	X	102.61962	197.60485	203.23409	5.51838	0.1281499	0.26811238	2.3819070	21	1 8.6	19.2
158183 2001 RF_{32}	16.7	X	241.60637	166.19236	241.73583	3.36300	0.1439226	0.29008123	2.2600756	21	6 25.5	19.6
158184 2001 RP_{40}	16.5	X	230.53199	317.93864	79.24763	6.14964	0.1913860	0.28545520	2.2844276	21	5 26.5	19.8
158185 2001 RM_{46}	16.6	X	139.64374	301.15965	112.45633	3.17421	0.2120118	0.27381386	2.3487264	21	3 28.2	20.0
158186 2001 RL_{76}	15.9	X	249.72950	294.55013	70.62296	6.68562	0.1887745	0.28130566	2.3068378	21	5 4.5	19.4
158187 2001 RY_{85}	17.6	X	62.43296	298.74999	2.28853	2.15205	0.1814636	0.30159327	2.2021909	21	11 27.9	20.5
158188 2001 RJ_{88}	16.6	X	325.43426	294.86575	37.41041	3.69001	0.1593103	0.29103955	2.2551116	21	7 10.1	18.4
158189 2001 RO_{92}	16.8	X	191.11931	225.14186	165.12531	6.89009	0.0933617	0.27926193	2.3180790	21	4 11.1	20.0
158190 2001 RR_{102}	16.5	X	68.96073	20.16236	31.27332	5.11034	0.1680955	0.26491587	2.4010290	21	—	—
158191 2001 RU_{104}	16.8	X	93.72927	268.64881	142.29681	2.41203	0.1835123	0.26836682	2.3804012	21	1 17.8	19.0
158192 2001 RD_{135}	17.0	X	251.34037	277.10552	103.15899	4.12946	0.1174576	0.28617851	2.2805768	21	6 2.1	20.1
158193 2001 RA_{137}	16.5	X	93.87675	3.49345	37.92991	6.60771	0.1119080	0.26632728	2.3925386	21	—	—
158194 2001 RC_{139}	13.7	X	265.08345	93.79291	163.80404	15.72516	0.1025974	0.12462213	3.9695317	21	1 31.9	19.7
158195 2001 RR_{141}	16.6	X	302.40604	269.33481	62.29554	5.80523	0.1972463	0.28794020	2.2712652	21	5 19.1	19.0
158196 2001 RK_{149}	16.9	X	86.28535	198.89767	106.89803	5.87255	0.2208474	0.30567624	2.1825369	21	12 31.7	20.4
158197 2001 SQ_{1}	16.2	X	45.94656	188.03675	261.37292	1.55253	0.1859158	0.26409662	2.4059919	21	—	—
158198 2001 SC_{10}	16.1	X	81.76253	220.29550	212.68656	7.39207	0.0747618	0.26523644	2.3990939	21	1 13.3	19.0
158199 2001 SV_{16}	17.3	X	209.91792	338.61528	28.42829	2.08268	0.1337189	0.27889086	2.3201347	21	3 30.4	20.7
158200 2001 SU_{17}	15.7	X	167.77553	235.54577	162.56245	6.48296	0.1354819	0.27630152	2.3346074	21	3 29.3	19.0
158201 2001 SG_{18}	16.8	X	183.62838	126.56284	169.47186	9.42862	0.1381375	0.26721047	2.3872637	21	—	—
158202 2001 SY_{20}	17.0	X	123.60310	274.65476	153.29881	4.16903	0.2031724	0.27179178	2.3603614	21	3 28.3	20.1
158203 2001 SA_{27}	16.0	X	136.15359	146.72950	7.69520	12.89116	0.0222989	0.23814802	2.5777338	21	7 22.2	19.7
158204 2001 SV_{46}	16.8	X	141.76611	306.05392	108.97094	2.92569	0.1715633	0.27356496	2.3501509	21	3 27.8	20.1
158205 2001 SV_{48}	16.5	X	287.24245	256.58882	48.43450	7.37244	0.1202162	0.28173609	2.3044877	21	4 5.4	19.5
158206 2001 SL_{52}	16.1	X	44.18170	268.85307	153.38285	6.26463	0.1244651	0.26031417	2.4292423	21	—	—
158207 2001 SK_{55}	16.6	X	116.79191	249.33872	147.01528	5.33730	0.2269443	0.26686725	2.3893102	21	2 8.9	19.5
158208 2001 SW_{57}	16.7	X	305.71597	141.57580	225.57790	5.22958	0.1417456	0.29130915	2.2537200	21	7 27.9	18.9
158209 2001 SG_{59}	17.3	X	77.14598	166.16610	165.63436	3.81520	0.2382915	0.30579560	2.1819689	21	—	—
158210 2001 SO_{60}	17.0	X	107.42566	235.07682	179.82728	2.00919	0.1815932	0.26812596	2.3818266	21	2 13.5	19.8
158211 2001 SQ_{67}	16.2	X	219.47999	182.28645	182.03638	6.94519	0.1294840	0.27716162	2.3297750	21	4 6.1	19.5
158212 2001 SU_{83}	16.3	X	210.73160	238.68295	172.77254	12.31937	0.2426647	0.23422734	2.6064196	21	5 28.3	21.0
158213 2001 ST_{87}	16.7	X	96.24365	251.25373	197.39733	1.38546	0.1029935	0.27466746	2.3438577	21	3 1.9	19.3
158214 2001 SU_{107}	15.7	X	297.68086	100.41984	242.12170	9.02554	0.2547609	0.28599381	2.2815586	21	5 18.1	18.2
158215 2001 SL_{110}	16.0	X	232.01768	347.87569	359.67746	7.28505	0.1395924	0.27648143	2.3335945	21	3 26.5	19.6
158216 2001 SV_{113}	16.8	X	85.98854	127.81035	296.93825	1.88770	0.1944695	0.26657285	2.3910690	21	1 26.4	18.8
158217 2001 SJ_{122}	14.0	X	209.20963	85.74832	239.03428	5.09781	0.1997083	0.12504713	3.9605323	21	2 19.9	20.5
158218 2001 SG_{123}	16.9	X	5.16415	6.32651	288.74034	3.64536	0.0802208	0.29316035	2.2442224	21	8 3.2	19.1
158219 2001 SZ_{136}	16.1	X	313.20967	202.09685	202.27485	3.77455	0.1273787	0.24668453	2.5179171	21	10 7.1	18.6
158220 2001 SV_{139}	16.6	X	74.94489	43.18587	1.35324	6.95958	0.1352599	0.26344104	2.4099818	21	—	—
158221 2001 SG_{162}	16.8	X	86.49590	55.96231	224.56457	3.91593	0.1817839	0.30104784	2.2048499	21	11 26.9	20.0
158222 Manicolas	17.0	X	203.09898	147.97383	196.02121	6.23862	0.1498801	0.27401391	2.3475831	21	2 21.1	20.7
158223 2001 SS_{182}	16.8	X	236.80184	20.44636	8.23255	4.54427	0.1679487	0.28647624	2.2789965	21	5 21.4	20.2
158224 2001 SJ_{184}	16.8	X	282.91060	255.61703	141.86528	7.38881	0.1754108	0.29305341	2.2447683	21	7 30.9	19.2
158225 2001 SB_{202}	17.1	X	304.45893	288.23603	60.31619	3.22191	0.1970393	0.29050948	2.2578539	21	6 17.2	19.2
158226 2001 SK_{217}	17.4	X	335.95049	48.90044	14.66789	2.69840	0.2099895	0.25139180	2.4863866	21	12 25.8	19.3
158227 2001 SO_{220}	16.6	X	10.32526	286.57777	158.76711	5.30232	0.1570773	0.25940488	2.4349159	21	—	—
158228 2001 SF_{226}	16.5	X	22.67374	41.94948	46.07893	2.84512	0.1668562	0.26070181	2.4268337	21	—	—
158229 2001 SG_{239}	16.5	X	270.29878	334.13873	47.39802	7.69752	0.1737159	0.28710815	2.2756512	21	6 19.1	19.4
158230 2001 SH_{247}	16.8	X	66.43436	144.65966	141.16225	3.08288	0.1593177	0.29815550	2.2190862	21	11 10.5	19.7
158231 2001 SJ_{256}	13.2	X	235.78456	7.93086	32.65136	7.91874	0.0214645	0.08310533	5.2005603	21	6 25.1	20.2
158232 2001 SO_{267}	16.8	X	287.75305	263.74390	56.53454	7.00217	0.1924572	0.28208642	2.3025793	21	4 16.1	19.8
158233 2001 SE_{272}	16.7	X	235.48827	10.06263	272.17961	1.25459	0.1920698	0.27109666	2.3643945	21	1 7.5	20.4
158234 2001 SG_{282}	17.4	X	115.85677	83.83828	211.72579	3.49065	0.2506145	0.30748150	2.1739859	21	—	—
158235 2001 SV_{293}	17.1	X	3.17953	84.91289	25.17737	2.00097	0.1402254	0.26226638	2.4171724	21	—	—
158236 2001 SR_{307}	16.0	X	23.75962	25.66388	104.34258	3.83424	0.1224615	0.26805321	2.3822575	21	—	—
158237 2001 SX_{314}	16.8	X	338.07028	224.94391	75.92214	6.92516	0.1356979	0.29004887	2.2602437	21	6 16.2	18.5
158238 2001 SP_{353}	16.7	X	333.18192	209.44485	10.63722	1.95167	0.1431338	0.27375193	2.3490806	21	2 5.7	19.2
158239 2001 TW_{2}	16.5	X	50.27403	277.34073	212.72868	6.22969	0.0558342	0.27194570	2.3594707	21	2 8.8	19.2
158240 2001 TD_{3}	16.9	X	45.39040	38.60154	23.40838	3.94803	0.1602509	0.26003101	2.4310055	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
158241 Yutonagatomo	16.2	X	13.92378	351.08508	83.27281	7.28548	0.1201097	0.25722996	2.4486216	21	—	—
158242 2001 TM_{24}	15.7	X	31.26732	213.93085	351.04563	7.17761	0.0432460	0.27981959	2.3149981	21	4 25.9	18.5
158243 2001 TS_{26}	16.5	X	94.62674	346.71242	2.79608	6.89771	0.1290725	0.25894830	2.4377772	21	—	—
158244 2001 TL_{47}	16.4	X	343.33167	246.88150	81.26199	7.29278	0.2065372	0.29213455	2.2494729	21	8 16.5	17.7
158245 2001 TF_{60}	16.9	X	218.02685	339.78692	41.91922	6.06490	0.1589383	0.27999081	2.3140542	21	4 25.8	20.6
158246 2001 TV_{60}	16.2	X	217.60377	185.69476	216.17248	6.63879	0.1123137	0.28193286	2.3034153	21	5 24.5	19.5
158247 2001 TU_{61}	16.7	X	14.28847	106.89092	214.25801	5.85130	0.2268769	0.29571335	2.2312870	21	10 24.9	18.3
158248 2001 TY_{61}	16.7	X	26.39936	25.04570	27.15872	3.00194	0.1757336	0.25586866	2.4572989	21	—	—
158249 2001 TS_{63}	16.2	X	111.90680	7.15025	54.35241	6.40124	0.2045025	0.26818339	2.3814865	21	3 8.4	19.2
158250 2001 TP_{65}	16.7	X	132.28178	345.03358	52.22331	2.17729	0.1849073	0.26880448	2.3778168	21	2 23.9	20.0
158251 2001 TT_{74}	16.6	X	213.05918	232.38926	183.20476	4.46888	0.1526315	0.23167394	2.6255357	21	6 6.6	20.7
158252 2001 TB_{76}	15.1	X	50.47172	52.76850	47.79516	13.97355	0.1098748	0.21398462	2.7683076	21	1 22.7	18.6
158253 2001 TS_{78}	15.9	X	145.86605	318.81031	63.82132	3.28124	0.2137122	0.26863664	2.3788071	21	2 23.7	19.4
158254 2001 TD_{92}	16.2	X	111.00140	197.16307	219.09820	5.03727	0.1772942	0.26867400	2.3785865	21	2 17.8	19.1
158255 2001 TB_{96}	16.6	X	12.31426	94.99342	231.23593	4.36082	0.1755575	0.29541160	2.2328061	21	10 18.9	18.5
158256 2001 TD_{109}	16.6	X	25.91918	0.98637	283.98979	4.55940	0.1682905	0.29176465	2.2513738	21	9 5.7	18.6
158257 2001 TY_{126}	16.9	X	344.82701	325.48108	195.68599	0.67161	0.1185724	0.26381418	2.4077088	21	—	—
158258 2001 TM_{130}	16.7	X	22.39536	182.55574	110.52121	6.74705	0.0187123	0.29255389	2.2473228	21	8 27.3	19.2
158259 2001 TL_{132}	16.9	X	95.38145	296.03084	108.97488	6.71256	0.1020462	0.26567819	2.3964339	21	—	—
158260 2001 TP_{148}	17.0	X	354.56761	215.99083	89.76816	5.60990	0.1724476	0.29086947	2.2559906	21	8 3.7	18.5
158261 2001 TB_{155}	16.4	X	269.84187	179.54639	142.52006	7.51839	0.1321005	0.27820824	2.3239283	21	4 6.4	19.6
158262 2001 TN_{175}	16.5	X	85.62882	225.21908	217.18034	5.74947	0.0921499	0.27029983	2.3690389	21	2 1.9	19.2
158263 2001 TW_{177}	16.7	X	8.04569	267.99999	234.80301	6.11121	0.0895181	0.26646990	2.3916848	21	—	—
158264 2001 TZ_{177}	16.9	X	67.51590	74.12099	225.69421	6.33598	0.1754181	0.30053287	2.2073680	21	12 1.8	20.0
158265 2001 TW_{180}	17.2	X	39.18449	193.72429	257.24550	2.75090	0.1200902	0.26256381	2.4153467	21	—	—
158266 2001 TW_{190}	16.4	X	9.69976	220.63027	240.19420	8.71517	0.2029457	0.25720562	2.4487761	21	—	—
158267 2001 TZ_{193}	16.5	X	46.50399	264.98227	260.13696	2.10750	0.0272586	0.27509617	2.3414220	21	3 24.2	19.3
158268 2001 TJ_{199}	17.1	X	57.98457	248.88306	66.61294	7.29141	0.1988925	0.30233321	2.1985962	21	12 14.3	20.0
158269 2001 TR_{208}	17.0	X	67.61639	22.45156	25.51745	5.44565	0.1039769	0.26124826	2.4234484	21	—	—
158270 2001 TT_{208}	15.0	X	56.82104	223.80609	23.61855	12.52288	0.2266389	0.23942904	2.5685311	21	9 14.1	18.4
158271 2001 TH_{231}	16.3	X	306.08595	206.13774	117.66163	6.99203	0.1482396	0.28687886	2.2768636	21	5 23.8	18.9
158272 2001 TE_{234}	16.2	X	117.91161	337.49979	85.25400	7.91458	0.0986767	0.27058715	2.3673616	21	3 1.7	19.2
158273 2001 UP_{2}	15.9	X	99.61961	227.35584	142.90704	3.34912	0.1868159	0.25975316	2.4327389	21	—	—
158274 2001 UM_{5}	16.9	X	167.70892	7.36909	25.30196	2.06020	0.1742510	0.27274488	2.3548594	21	3 24.5	20.5
158275 2001 UK_{8}	16.9	X	55.95419	353.76415	81.21232	3.29781	0.1926092	0.26228169	2.4170784	21	—	—
158276 2001 UA_{12}	16.6	X	41.68637	282.25904	161.19515	2.13338	0.1906186	0.25860143	2.4399566	21	—	—
158277 2001 UC_{15}	17.1	X	239.41046	339.23143	33.05340	1.78231	0.2519216	0.28086719	2.3092381	21	4 28.0	20.8
158278 2001 UF_{16}	16.1	X	66.88292	296.75078	118.91303	1.62834	0.1689174	0.26032853	2.4291530	21	—	—
158279 2001 UQ_{28}	16.5	X	27.71704	8.10030	80.51803	3.54871	0.1647490	0.26057377	2.4276286	21	—	—
158280 2001 UC_{30}	16.2	X	108.58169	279.30685	128.35911	6.75866	0.2016389	0.26725546	2.3869958	21	2 9.7	18.9
158281 2001 UP_{30}	16.8	X	30.92109	252.56026	70.54126	7.97681	0.1598282	0.29784675	2.2206195	21	11 15.2	19.1
158282 2001 UR_{34}	16.5	X	260.39222	298.59868	82.13012	7.36557	0.2085858	0.28511797	2.2862286	21	6 2.3	19.8
158283 2001 UP_{41}	16.9	X	257.02998	316.47987	48.35011	6.77127	0.1218132	0.28299576	2.2976441	21	5 17.1	19.8
158284 2001 UF_{46}	16.4	X	41.44375	216.33216	204.98341	0.97265	0.1526740	0.25825962	2.4421090	21	—	—
158285 2001 UV_{62}	16.8	X	355.04215	86.78034	358.29909	1.93629	0.1701193	0.25543731	2.4600645	21	—	—
158286 2001 UZ_{65}	16.3	X	112.41393	334.85605	32.11791	4.58729	0.2623234	0.26201680	2.4187072	21	1 2.1	19.1
158287 2001 UH_{75}	16.2	X	119.74201	295.29791	70.04541	7.40760	0.1320867	0.26297663	2.4128182	21	—	—
158288 2001 UX_{77}	16.3	X	341.96559	12.63727	223.19317	2.08265	0.0511496	0.27525589	2.3405161	21	3 25.7	19.0
158289 2001 UB_{81}	16.2	X	258.87756	326.60720	68.66065	2.32423	0.0816702	0.23563403	2.5960360	21	7 8.3	19.6
158290 2001 UQ_{85}	16.9	X	227.43954	293.82537	164.10373	1.72086	0.1101740	0.23884234	2.5727357	21	8 19.0	20.6
158291 2001 UN_{91}	17.0	X	19.73009	237.77845	197.32477	3.08452	0.1255157	0.25876091	2.4389540	21	—	—
158292 2001 UA_{100}	16.1	X	248.51162	264.88349	218.10895	11.54368	0.1962048	0.24188529	2.5511133	21	10 2.8	19.9
158293 2001 UE_{100}	16.6	X	354.47847	92.04126	45.12147	7.30093	0.0613534	0.26269675	2.4145317	21	—	—
158294 2001 UK_{104}	17.1	X	35.09436	223.90272	197.65565	2.07469	0.1765032	0.25798110	2.4438664	21	—	—
158295 2001 UO_{107}	16.9	X	0.31881	258.77450	202.08684	1.89540	0.1583661	0.25680682	2.4513106	21	—	—
158296 2001 UJ_{115}	16.7	X	149.63249	351.06002	54.89164	2.76298	0.1327578	0.27170390	2.3608703	21	3 20.3	19.9
158297 2001 UN_{118}	17.3	X	333.32950	283.17367	67.44306	4.83436	0.1853562	0.29129802	2.2537774	21	8 31.3	18.8
158298 2001 UL_{122}	16.7	X	150.81398	328.93410	62.41464	8.14093	0.1189754	0.26925268	2.3751773	21	3 4.5	20.1
158299 2001 UC_{126}	17.0	X	72.42130	201.54480	103.49732	9.24078	0.2752120	0.30287883	2.1959550	21	12 22.6	20.4
158300 2001 UD_{129}	16.6	X	260.90555	317.97420	71.32079	5.44605	0.1971059	0.28739433	2.2741403	21	6 15.5	19.5
158301 2001 UJ_{139}	16.8	X	20.39196	171.07570	113.00983	3.24481	0.1494461	0.29092777	2.2556892	21	8 24.8	18.5
158302 2001 UO_{145}	16.8	X	40.79386	314.21999	149.71820	3.63787	0.1012000	0.26315951	2.4117003	21	—	—
158303 2001 UP_{149}	16.9	X	196.26854	282.35037	92.85870	3.74004	0.1140864	0.27411814	2.3469880	21	3 29.1	20.3
158304 2001 UW_{154}	16.4	X	115.34298	304.48539	83.65393	5.62052	0.1838333	0.26386917	2.4073743	21	1 22.1	19.3
158305 2001 UY_{160}	16.1	X	145.06576	326.68929	70.96166	8.55988	0.1077979	0.26886012	2.3774887	21	3 4.9	19.4
158306 2001 UQ_{182}	16.8	X	44.56427	326.83907	125.46333	2.93466	0.1673114	0.26388919	2.4072525	21	—	—
158307 2001 UT_{183}	16.9	X	326.78031	261.53130	56.75668	6.55536	0.1269893	0.28869335	2.2673133	21	6 23.2	19.0
158308 2001 UB_{206}	15.4	X	185.82463	355.94445	33.12450	14.86327	0.1562527	0.22912450	2.6449758	21	4 10.8	19.6
158309 2001 VY_{3}	16.5	X	132.57758	343.79513	32.22613	2.54253	0.2125638	0.26547923	2.3976310	21	1 31.9	19.7
158310 2001 VN_{6}	16.4	X	29.49874	215.36262	239.07401	2.05843	0.1334453	0.26024535	2.4296706	21	—	—
158311 2001 VL_{8}	16.5	X	45.70345	157.01508	277.44203	0.35671	0.1665893	0.25903920	2.4372069	21	—	—
158312 2001 VX_{17}	15.9	X	287.41307	37.01601	57.81785	16.14304	0.1581383	0.24554549	2.5256979	21	11 2.7	18.6
158313 2001 VL_{19}	16.8	X	104.65378	358.44880	13.37096	2.58427	0.1883247	0.26178959	2.4201065	21	—	—
158314 2001 VJ_{32}	16.6	X	206.42411	60.66224	353.63263	1.91703	0.2159639	0.27910936	2.3189236	21	5 25.2	20.5
158315 2001 VX_{32}	16.6	X	53.93497	173.08628	252.56242	1.57920	0.1523069	0.25851330	2.4405111	21	—	—
158316 2001 VW_{33}	16.2	X	141.04643	299.87682	95.87438	4.32675	0.1802422	0.26780398	2.3837353	21	3 4.2	19.6
158317 2001 VP_{37}	15.9	X	302.67503	340.88502	79.59347	6.44413	0.2619742	0.24205567	2.5499160	21	9 25.2	18.2
158318 2001 VH_{46}	15.8	X	281.94927	6.09776	79.89504	14.23922	0.2275787	0.24033143	2.5620976	21	10 4.9	19.0
158319 2001 VM_{77}	16.0	X	33.26391	308.48823	122.13782	6.97875	0.1593848	0.25841806	2.4411107	21	—	—
158320 2001 VW_{78}	16.4	X	23.43072	289.96258	30.61139	6.07641	0.2408547	0.29467818	2.2365094	21	11 11.1	18.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
158321 2001 VH_{85}	16.5	X	224.60306	76.58511	12.97092	6.81528	0.1403418	0.23604624	2.5930128	21	8 4.4	20.4
158322 2001 VY_{89}	16.8	X	238.88437	241.64005	147.84830	7.93468	0.1967831	0.28242220	2.3007539	21	5 25.7	20.5
158323 2001 VB_{95}	15.7	X	302.41379	27.07889	145.54025	12.26239	0.0860587	0.25597738	2.4566030	21	—	—
158324 2001 VU_{103}	16.5	X	353.41829	90.62521	18.41688	3.88515	0.0603445	0.25682606	2.4511882	21	—	—
158325 2001 VO_{105}	15.8	X	357.53473	96.15977	32.95809	6.45118	0.0683251	0.25935890	2.4352036	21	—	—
158326 2001 VO_{115}	15.5	X	20.67549	303.64274	54.25951	2.76078	0.1153658	0.19571598	2.9380004	21	11 18.4	19.2
158327 2001 VL_{117}	15.3	X	220.50294	238.14886	257.44702	12.19333	0.2135844	0.23800456	2.5787695	21	9 12.8	19.8
158328 2001 VR_{117}	15.2	X	245.81757	224.75933	256.28729	13.90518	0.1473491	0.24032478	2.5621449	21	9 29.6	19.1
158329 Stevekent	17.2	X	7.84511	187.31509	75.56129	8.75425	0.2007275	0.28686645	2.2769293	21	6 19.1	18.4
158330 2001 WK_{2}	16.1	X	193.92685	90.16020	70.38545	11.95626	0.2347402	0.23913370	2.5706455	21	10 1.8	20.6
158331 2001 WF_{5}	16.9	X	283.91797	260.72953	79.89710	5.53832	0.2593152	0.28270310	2.2992295	21	4 29.9	20.1
158332 2001 WZ_{14}	16.3	X	313.66763	161.22466	194.01338	6.53976	0.2396398	0.28816675	2.2700746	21	7 6.8	18.3
158333 2001 WW_{25}	13.5	X	262.25042	281.93925	88.42319	3.88979	0.1137847	0.08259238	5.2220703	21	6 9.0	20.5
158334 2001 WA_{28}	16.9	X	161.04778	243.27478	160.30979	2.59837	0.2038114	0.27224202	2.3577583	21	4 3.5	20.6
158335 2001 WM_{34}	16.4	X	64.74669	258.34889	165.28228	5.57504	0.0823242	0.26048137	2.4282027	21	—	—
158336 2001 WM_{69}	13.5	X	308.40068	124.24615	218.13769	3.77912	0.0447972	0.08241910	5.2293871	21	7 8.7	20.3
158337 2001 WD_{70}	17.0	X	341.19131	232.85979	70.27822	3.92776	0.1437556	0.28592947	2.2819008	21	6 26.4	18.6
158338 2001 WY_{83}	16.6	X	211.64198	198.84370	79.46082	4.28668	0.1308283	0.26160078	2.4212708	21	—	—
158339 2001 WX_{100}	17.5	X	328.49841	269.81075	54.29005	2.55783	0.1897009	0.28678624	2.2773538	21	6 27.4	19.1
158340 2001 XH_{21}	15.6	X	223.41502	91.01392	56.99641	8.90599	0.1613251	0.23848030	2.5753388	21	10 16.2	19.4
158341 2001 XT_{28}	16.1	X	253.55715	294.01111	182.35459	5.13924	0.2425423	0.23969523	2.5666292	21	9 25.7	19.6
158342 2001 XA_{37}	15.6	X	106.04623	156.56029	287.73550	14.61632	0.0444016	0.21763071	2.7373012	21	3 2.9	19.6
158343 2001 XX_{48}	16.2	X	85.29747	234.71738	156.01706	6.59639	0.1074270	0.25867046	2.4395225	21	—	—
158344 2001 XY_{64}	16.7	X	86.22628	210.04739	201.92944	1.86613	0.2060245	0.26031973	2.4292077	21	1 11.6	18.9
158345 2001 XE_{67}	15.2	X	318.53965	186.74611	278.44723	5.53150	0.0852331	0.24637272	2.5200412	21	—	—
158346 2001 XQ_{67}	16.6	X	205.51168	313.22751	124.34230	3.73502	0.2904553	0.22933527	2.6433550	21	6 22.2	21.4
158347 2001 XG_{69}	15.5	X	352.77700	271.92471	69.41419	12.65569	0.0982371	0.19182421	2.9776051	21	9 19.1	19.4
158348 2001 XC_{83}	16.9	X	228.04409	213.30361	159.23094	2.50341	0.2091113	0.27769924	2.3267671	21	4 21.9	20.6
158349 2001 XL_{89}	16.8	X	347.83997	280.02524	40.08793	6.98872	0.1727622	0.28894973	2.2659719	21	8 14.9	18.5
158350 2001 XJ_{98}	16.4	X	89.86123	359.58084	57.95485	3.37162	0.1953311	0.26272666	2.4143485	21	1 25.4	18.8
158351 2001 XW_{106}	15.5	X	176.95561	337.24545	229.44559	1.04062	0.0277074	0.19536901	2.9414780	21	11 9.9	19.8
158352 2001 XR_{107}	16.5	X	101.29553	191.18871	198.95551	2.36089	0.1620678	0.26120623	2.4237084	21	—	—
158353 2001 XQ_{112}	16.6	X	224.33724	339.63982	131.57651	3.29244	0.1164279	0.23548465	2.5971338	21	9 2.1	20.4
158354 2001 XU_{112}	16.2	X	284.31665	253.11908	205.67040	5.32063	0.1675932	0.24295419	2.5436252	21	10 28.7	18.9
158355 2001 XX_{115}	15.9	X	286.38417	36.97271	75.52036	11.13189	0.1236684	0.24295718	2.5436043	21	11 27.2	18.7
158356 2001 XS_{118}	15.2	X	317.81999	322.82517	76.09159	7.40430	0.3105749	0.23904171	2.5713050	21	9 19.9	17.0
158357 2001 XF_{124}	17.0	X	176.63194	217.57509	133.96660	1.88243	0.2009446	0.26883170	2.3776563	21	2 11.3	20.8
158358 2001 XN_{127}	15.4	X	13.84514	292.57086	238.36068	8.17050	0.0857517	0.21641699	2.7475260	21	2 17.8	18.8
158359 2001 XC_{139}	16.7	X	233.43506	231.91833	107.39782	3.57981	0.2415094	0.27451705	2.3447138	21	3 15.9	20.7
158360 2001 XW_{139}	16.3	X	314.11229	119.12917	255.36894	1.03520	0.1726923	0.23861571	2.5743644	21	8 18.0	18.8
158361 2001 XH_{140}	16.6	X	192.19557	215.26503	215.04909	2.64704	0.1688728	0.22765642	2.6563346	21	6 5.1	20.8
158362 2001 XW_{140}	16.7	X	282.11898	234.79672	97.17799	6.29926	0.1554576	0.28035909	2.3120273	21	5 1.2	19.7
158363 2001 XU_{144}	16.3	X	304.09377	231.85646	104.15173	6.38354	0.1985514	0.28316054	2.2967527	21	5 29.5	18.8
158364 2001 XN_{149}	16.5	X	48.42288	333.27346	102.88824	5.29081	0.0576651	0.25786539	2.4445974	21	—	—
158365 2001 XV_{149}	15.7	X	245.42923	236.57023	86.52557	7.98688	0.1317786	0.27145969	2.3622860	21	3 14.4	19.3
158366 2001 XX_{151}	15.2	X	290.35610	108.58547	265.66237	9.84914	0.1469801	0.18403284	3.0610646	21	7 10.6	19.3
158367 2001 XH_{159}	15.6	X	205.17451	263.90792	258.63696	10.77131	0.1321406	0.23860975	2.5744073	21	10 10.9	19.7
158368 2001 XM_{161}	16.6	X	1.49591	34.60861	92.17671	4.51670	0.0354857	0.25800631	2.4437072	21	—	—
158369 2001 XJ_{163}	16.4	X	227.24081	304.81057	174.22275	2.03928	0.1487952	0.23688128	2.5869154	21	9 11.2	20.3
158370 2001 XE_{166}	16.1	X	226.70502	70.27508	248.17767	6.18497	0.1334971	0.26761718	2.3848444	21	2 11.5	19.9
158371 2001 XJ_{166}	16.3	X	247.58166	317.06056	177.09504	2.12964	0.1350127	0.24175911	2.5520009	21	10 28.0	19.6
158372 2001 XX_{185}	16.0	X	224.72495	251.13390	103.24787	5.91265	0.1844179	0.27238449	2.3569360	21	3 30.7	19.8
158373 2001 XJ_{188}	16.3	X	324.31833	270.63640	167.14821	1.32413	0.1191266	0.24447169	2.5330883	21	12 15.4	18.8
158374 2001 XW_{195}	15.4	X	209.72597	297.15610	117.91780	28.95234	0.1745262	0.22543041	2.6737926	21	6 8.8	20.2
158375 2001 XA_{198}	16.1	X	272.64790	349.41184	118.86972	14.30080	0.1214904	0.23911946	2.5707476	21	11 5.0	19.5
158376 2001 XY_{202}	16.3	X	348.05852	327.53661	131.85583	6.26444	0.0870192	0.25462374	2.4653019	21	—	—
158377 2001 XZ_{202}	16.1	X	211.87013	312.06229	206.65796	11.84302	0.2621653	0.24078184	2.5589014	21	10 5.2	20.3
158378 2001 XN_{203}	16.2	X	263.88002	29.67770	89.63789	13.48447	0.2190825	0.24337713	2.5406775	21	10 23.8	19.6
158379 2001 XW_{204}	16.0	X	194.32089	43.60542	85.81970	29.42418	0.2082459	0.23369719	2.6103599	21	8 28.6	20.9
158380 2001 XP_{208}	15.3	X	237.89411	226.57553	246.00092	11.65585	0.1217980	0.23816860	2.5775853	21	9 12.7	19.3
158381 2001 XQ_{210}	16.1	X	272.12749	267.33375	202.57758	3.54966	0.1090659	0.24251828	2.5466723	21	11 2.8	18.9
158382 2001 XC_{215}	15.7	X	231.20025	352.82670	122.04839	17.69247	0.1154799	0.23496227	2.6009817	21	9 20.2	19.7
158383 2001 XC_{222}	16.7	X	284.68647	247.93126	52.74929	6.76186	0.1405026	0.27615975	2.3354064	21	3 25.7	19.9
158384 2001 XV_{224}	16.7	X	242.88470	87.53236	39.89780	4.52957	0.1567808	0.24156789	2.5533474	21	10 10.7	20.2
158385 2001 XV_{235}	15.4	X	167.34018	190.18623	40.41592	2.77195	0.0431740	0.19571941	2.9379661	21	11 27.2	19.7
158386 2001 XJ_{236}	16.3	X	135.12938	310.97621	49.48244	4.89172	0.2115228	0.26282261	2.4137608	21	1 15.2	19.6
158387 2001 XY_{250}	16.2	X	217.09857	285.96971	195.38788	1.39572	0.1552604	0.23552844	2.5968118	21	9 2.4	20.3
158388 2001 XU_{260}	16.3	X	235.77841	180.92260	97.18437	3.38038	0.1874277	0.26543069	2.3979233	21	1 3.7	20.3
158389 2001 XG_{264}	16.4	X	201.15669	87.15843	60.46371	16.50008	0.1907472	0.23749388	2.5824649	21	9 27.4	20.9
158390 2001 YV_{37}	16.5	X	303.35225	236.18596	76.08236	3.91687	0.1662236	0.27887860	2.3202027	21	4 29.2	19.1
158391 2001 YC_{40}	17.0	X	205.58491	268.71895	41.00041	1.84422	0.1921912	0.26478986	2.4017906	21	1 16.9	20.8
158392 2001 YA_{44}	17.2	X	170.84078	346.87765	30.78266	1.65927	0.1899198	0.26935314	2.3745867	21	3 10.1	20.8
158393 2001 YD_{47}	16.6	X	268.78813	87.21255	8.43646	2.87429	0.1863007	0.24021671	2.5629132	21	9 26.4	19.7
158394 2001 YA_{52}	15.9	X	250.35410	156.64027	343.95652	2.40891	0.0866494	0.24336270	2.5407779	21	11 15.4	19.1
158395 2001 YJ_{55}	16.3	X	197.34016	93.69119	74.06146	5.61403	0.2072134	0.23861456	2.5743727	21	10 11.2	20.6
158396 2001 YV_{70}	15.8	X	171.95939	255.95219	289.06824	10.05059	0.1353506	0.23573881	2.5952667	21	10 4.3	20.1
158397 2001 YU_{88}	15.8	X	168.31632	146.54275	65.10985	5.36828	0.1804502	0.23743621	2.5828831	21	11 7.7	20.0
158398 2001 YO_{105}	16.1	X	192.88849	45.56444	145.64341	4.23808	0.0590517	0.23994011	2.5648825	21	11 15.1	19.7
158399 2001 YP_{105}	16.2	X	229.17230	347.63502	123.50341	5.42408	0.2430139	0.23411503	2.6072531	21	8 25.8	20.3
158400 2001 YZ_{106}	15.9	X	222.47495	349.35401	150.81773	4.73580	0.1790832	0.23614593	2.5922829	21	10 1.5	19.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
158401 2001 YZ_{111}	15.6	X	151.16730	132.05911	64.56507	12.89805	0.2177886	0.23286391	2.6165834	21	10 11.0	20.2
158402 2001 YL_{117}	15.6	X	236.39527	164.37358	291.98187	11.30169	0.1367881	0.23301357	2.6154630	21	8 20.1	19.6
158403 2001 YR_{117}	16.0	X	348.35993	56.22339	351.84772	2.50151	0.2270028	0.24488648	2.5302271	21	12 29.6	18.2
158404 2001 YA_{125}	16.1	X	104.71081	353.76151	51.67968	6.87026	0.1295979	0.26260161	2.4151149	21	1 22.8	18.9
158405 2001 YY_{130}	15.9	X	332.54069	40.15466	10.92301	5.72004	0.1600395	0.24276105	2.5449742	21	11 21.2	18.4
158406 2001 YM_{133}	16.8	X	277.06756	54.93621	249.27244	2.86816	0.1568993	0.27485694	2.3427804	21	3 14.9	20.2
158407 2001 YQ_{161}	15.5	X	133.90331	110.44412	68.69072	6.31479	0.1056039	0.17804676	3.1292961	21	8 24.1	20.4
158408 2002 AO_{12}	14.9	X	85.61114	218.18875	310.91439	12.54042	0.1331103	0.21868861	2.7284663	21	6 18.1	18.7
158409 2002 AM_{33}	15.3	X	139.05210	102.79538	88.31225	5.10429	0.1899944	0.22880551	2.6474335	21	9 20.1	19.7
158410 2002 AV_{39}	15.7	X	339.26502	163.39397	255.24530	2.93303	0.2406248	0.24458596	2.5322993	21	12 26.4	17.5
158411 2002 AJ_{51}	16.0	X	204.93240	251.37912	277.93458	2.32537	0.0576675	0.23749853	2.5824313	21	10 29.8	19.6
158412 2002 AN_{51}	16.0	X	192.92924	229.53085	264.49047	2.24412	0.0260576	0.23091276	2.6313024	21	8 31.6	19.7
158413 2002 AW_{51}	16.6	X	170.78878	9.55515	138.99940	2.68313	0.1757052	0.22871578	2.6481259	21	8 23.4	21.0
158414 2002 AX_{64}	16.3	X	5.36740	109.64068	287.44113	2.25473	0.2097187	0.24356389	2.5393786	21	—	—
158415 2002 AO_{87}	16.5	X	235.62872	234.56604	224.95101	4.19570	0.1889217	0.23332048	2.6131689	21	8 19.6	20.5
158416 2002 AS_{98}	16.2	X	179.18613	99.20886	28.77820	2.51549	0.1531932	0.22842258	2.6503915	21	8 6.1	20.4
158417 2002 AC_{106}	15.6	X	172.79453	87.53062	99.82592	3.76400	0.1042030	0.23496329	2.6009741	21	10 16.2	19.5
158418 2002 AC_{151}	16.6	X	276.42127	70.64502	359.39477	2.29716	0.1620097	0.23455445	2.6039957	21	9 5.8	19.7
158419 2002 AC_{154}	15.8	X	108.86331	108.50255	123.18611	6.63288	0.1264920	0.22871332	2.6481449	21	10 8.1	19.8
158420 2002 AU_{158}	15.7	X	122.78531	323.32185	249.44933	3.30960	0.1381940	0.22909085	2.6452348	21	9 24.8	19.7
158421 2002 AE_{165}	16.5	X	296.71326	277.81128	148.96072	5.07922	0.0693237	0.23640311	2.5904026	21	10 17.9	19.6
158422 2002 AW_{172}	16.5	X	127.67831	353.80284	26.63620	2.73062	0.2142275	0.26028822	2.4294038	21	2 2.1	19.7
158423 2002 AS_{176}	16.1	X	356.43189	57.69908	344.38157	3.48463	0.1863125	0.24355986	2.5394065	21	12 30.4	18.7
158424 2002 AY_{186}	16.4	X	308.34317	21.80263	45.29171	5.06177	0.1571643	0.23953893	2.5677455	21	10 27.9	18.9
158425 2002 BA	16.0	X	139.07992	184.42559	34.79844	3.50451	0.1275263	0.23323236	2.6138270	21	10 20.5	20.1
158426 2002 BH_{10}	15.6	X	240.76473	301.04590	129.47390	7.15056	0.2600285	0.22985086	2.6394005	21	7 12.9	20.0
158427 2002 BX_{18}	16.0	X	136.05142	84.19232	68.48876	8.37969	0.2501294	0.22408169	2.6845107	21	8 3.3	20.7
158428 2002 BX_{20}	15.0	X	181.13444	58.11830	46.76088	22.53259	0.0479635	0.22569525	2.6717005	21	7 9.9	19.3
158429 2002 BH_{26}	15.3	X	270.24055	39.32509	44.82525	29.66320	0.1531799	0.23536884	2.5979856	21	10 5.5	19.1
158430 2002 CL_{1}	15.4	X	65.01264	120.81724	89.91980	14.22840	0.2948197	0.21766851	2.7369843	21	8 14.1	19.3
158431 2002 CX_{2}	15.9	X	236.69659	18.54770	100.54574	9.37216	0.0777006	0.23453366	2.6041496	21	10 6.5	19.6
158432 2002 CJ_{13}	15.4	X	216.57946	49.36129	62.63518	13.95338	0.1684778	0.22997977	2.6384141	21	8 26.8	19.8
158433 2002 CU_{17}	16.0	X	98.13207	118.90427	349.23165	4.18806	0.0803190	0.21510306	2.7587032	21	4 4.8	19.8
158434 2002 CP_{18}	15.4	X	251.05825	54.40495	24.68418	11.29226	0.1011690	0.17947922	3.1126235	21	8 25.8	20.0
158435 2002 CH_{27}	15.8	X	206.57970	90.23045	64.52832	4.63997	0.1364187	0.23533001	2.5982714	21	10 8.2	19.7
158436 2002 CF_{47}	16.3	X	122.20267	295.96387	250.83955	6.55804	0.2260012	0.22600528	2.6692566	21	8 27.1	20.8
158437 2002 CC_{61}	15.5	X	126.45921	192.88014	56.09425	8.70955	0.1633037	0.23431020	2.6058050	21	11 15.3	19.6
158438 2002 CJ_{61}	15.8	X	7.58165	114.77123	3.18923	10.66313	0.0981345	0.20220314	2.8748209	21	—	—
158439 2002 CN_{71}	15.9	X	20.55615	224.29301	119.32454	8.13723	0.1106024	0.23618891	2.5919684	21	11 10.1	19.1
158440 2002 CP_{78}	15.6	X	86.08416	181.26374	137.41302	15.42966	0.1007585	0.23981410	2.5657809	21	12 27.7	19.5
158441 2002 CY_{84}	16.5	X	257.30125	343.62889	100.53245	1.76485	0.1235974	0.23375396	2.6099373	21	9 5.2	19.8
158442 2002 CE_{85}	16.4	X	170.62136	70.78737	27.15232	2.76855	0.0324539	0.22287298	2.6942079	21	6 16.3	20.1
158443 2002 CR_{90}	16.4	X	311.51986	161.18721	342.12648	1.76147	0.1215122	0.19615703	2.9335949	21	—	—
158444 2002 CX_{99}	16.1	X	83.24251	146.50938	73.50985	1.92377	0.1024755	0.22218881	2.6997358	21	8 18.3	19.7
158445 2002 CJ_{100}	15.9	X	61.65016	198.88714	77.55821	1.00279	0.0326189	0.22814551	2.6525369	21	9 23.8	19.2
158446 2002 CE_{105}	15.6	X	355.75387	176.23325	139.60805	3.21541	0.0656948	0.22325465	2.6911363	21	8 14.1	18.5
158447 2002 CO_{108}	15.8	X	84.88291	4.27859	129.65675	6.12124	0.2678658	0.21282604	2.7783452	21	5 22.9	19.6
158448 2002 CZ_{109}	15.7	X	79.47297	330.78460	142.82896	10.82526	0.1313985	0.20981826	2.8048342	21	3 30.2	19.3
158449 2002 CF_{119}	16.1	X	146.44182	99.03464	134.11994	5.02941	0.0834584	0.23738819	2.5832314	21	11 15.3	19.9
158450 2002 CO_{121}	16.2	X	102.94017	205.06207	174.74838	2.06661	0.2214107	0.25570255	2.4583630	21	—	—
158451 2002 CP_{121}	16.5	X	289.15149	260.22467	179.63905	2.10656	0.0933507	0.23748912	2.5824995	21	10 19.9	19.5
158452 2002 CF_{127}	15.9	X	83.93194	312.90977	300.69453	11.05338	0.2385917	0.22814820	2.6525160	21	10 12.4	20.3
158453 2002 CP_{127}	16.1	X	139.35681	29.69540	196.65429	1.59534	0.1399331	0.23355143	2.6114458	21	10 29.9	20.2
158454 2002 CP_{131}	15.5	X	94.72373	98.15026	154.86742	13.42069	0.1453042	0.22904914	2.6455559	21	10 22.7	19.6
158455 2002 CS_{135}	16.4	X	220.20577	153.79201	283.79350	0.85253	0.0826144	0.22736605	2.6585957	21	7 17.2	20.1
158456 2002 CL_{147}	16.1	X	123.21788	318.98691	352.65023	1.78371	0.1167867	0.24535603	2.5269980	21	—	—
158457 2002 CK_{148}	16.9	X	347.24428	51.62267	337.96933	2.45936	0.1378683	0.23935077	2.5690911	21	11 17.4	19.5
158458 2002 CA_{153}	16.6	X	104.25667	153.49471	5.91971	20.83713	0.0543134	0.37139785	1.9167985	21	6 7.0	19.1
158459 2002 CP_{161}	15.5	X	110.40346	273.33881	0.25508	6.56808	0.1863139	0.23588822	2.5941707	21	11 30.3	19.9
158460 2002 CZ_{186}	16.2	X	278.49009	244.64734	132.97982	3.30525	0.0751089	0.22619303	2.6677793	21	7 11.1	19.7
158461 2002 CS_{195}	16.4	X	163.69377	137.80152	8.87663	0.98055	0.0543618	0.22654858	2.6649874	21	8 13.0	20.3
158462 2002 CB_{207}	16.1	X	92.67316	278.86367	14.31663	3.23373	0.1291432	0.23551919	2.5968798	21	12 3.9	19.9
158463 2002 CP_{214}	16.0	X	76.32914	251.76230	46.98577	2.73957	0.0730720	0.23389429	2.6088932	21	11 16.7	19.5
158464 2002 CY_{214}	16.1	X	45.72248	105.24659	128.57571	5.47738	0.0306564	0.22030233	2.7151260	21	7 3.8	19.7
158465 2002 CC_{219}	16.0	X	183.31338	90.24886	43.86909	3.48578	0.0311907	0.22529577	2.6748577	21	8 21.8	19.7
158466 2002 CS_{224}	15.2	X	193.24162	259.77723	353.31699	12.08262	0.0883896	0.19077677	2.9884939	21	—	—
158467 2002 CF_{233}	16.9	X	250.64772	297.66725	158.12224	1.64235	0.0659071	0.23326744	2.6135650	21	9 20.2	20.4
158468 2002 CH_{247}	15.6	X	77.27736	69.48952	167.34651	3.11015	0.0450105	0.22313915	2.6920649	21	8 23.1	19.3
158469 2002 CM_{248}	15.7	X	151.07593	48.84167	80.02659	5.46316	0.0498983	0.22206635	2.7007282	21	7 4.7	19.6
158470 2002 CK_{252}	16.6	X	226.28773	247.14129	230.79750	3.75607	0.1156100	0.23338917	2.6126561	21	9 10.5	20.5
158471 2002 CF_{253}	16.4	X	252.91283	5.75248	100.05778	9.43864	0.1251421	0.23470997	2.6028453	21	10 2.8	20.1
158472 Tiffanyfinley	16.0	X	67.01684	284.61428	14.94299	3.13734	0.1069564	0.23203896	2.6227815	21	11 10.2	19.7
158473 2002 CM_{296}	16.4	X	263.61555	285.24166	140.56816	1.89911	0.1403776	0.22959395	2.6413691	21	8 16.0	19.8
158474 2002 CK_{303}	15.9	X	35.24779	267.87663	280.38178	6.33594	0.1569048	0.21191516	2.7863010	21	4 24.1	19.0
158475 2002 CW_{303}	16.4	X	322.94745	210.44951	158.21290	1.94131	0.0351396	0.22877431	2.6476742	21	9 7.6	19.6
158476 2002 CP_{305}	16.3	X	354.13599	282.57237	99.36342	6.09250	0.1454086	0.24067566	2.5596540	21	11 22.6	18.9
158477 2002 CT_{312}	16.5	X	273.86644	222.91581	221.89337	1.64865	0.1340934	0.23479856	2.6021906	21	9 25.9	19.6
158478 2002 DJ_{1}	16.1	X	167.96810	185.23977	256.13003	3.77914	0.0878371	0.21991238	2.7183347	21	5 24.7	20.2
158479 2002 DJ_{8}	15.5	X	138.58448	152.70461	73.70426	14.57625	0.1135998	0.23348067	2.6119735	21	11 2.1	19.7
158480 2002 DN_{8}	15.7	X	215.84494	6.14284	39.66235	12.22392	0.2819946	0.22537188	2.6742555	21	5 20.6	20.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
158481 2002 DN_9	15.1	X	19.75351	189.06395	51.12919	16.37318	0.1105154	0.21829680	2.7317302	21	6 6.1	18.2
158482 2002 DQ_{11}	16.3	X	96.68954	134.56461	3.89138	2.34159	0.1265535	0.21454664	2.7634710	21	5 20.5	20.0
158483 2002 DQ_{13}	15.9	X	50.95016	247.50540	174.82422	5.10746	0.0991019	0.20095846	2.8866791	21	—	—
158484 2002 DZ_{14}	16.2	X	100.98033	345.36908	250.39418	1.86321	0.0162735	0.22979481	2.6398297	21	9 17.8	19.7
158485 2002 DZ_{16}	15.6	X	139.34415	140.55373	61.26911	14.67226	0.0496649	0.22877590	2.6476619	21	10 3.2	19.6
158486 2002 EM_8	16.3	X	306.78723	268.61315	167.94073	3.71542	0.1994101	0.23790771	2.5794693	21	11 3.7	18.5
158487 2002 EN_8	15.8	X	312.47071	69.42451	179.53652	1.11117	0.1236723	0.20688013	2.8313280	21	3 2.0	19.5
158488 2002 ES_{13}	16.4	X	60.11714	200.49981	17.94531	1.98860	0.1424720	0.21825432	2.7320846	21	7 20.9	19.8
158489 2002 EQ_{22}	15.7	X	141.69155	73.40279	64.45731	5.82850	0.1035517	0.22053986	2.7131762	21	7 9.8	19.8
158490 2002 EX_{23}	16.1	X	359.43587	191.87629	178.54158	2.46122	0.0644876	0.23274703	2.6174593	21	11 5.3	19.1
158491 2002 ED_{27}	16.1	X	52.79300	37.02959	150.45508	1.29084	0.0654178	0.21411224	2.7672075	21	5 16.2	19.4
158492 2002 EM_{31}	15.8	X	117.28480	275.43227	225.77081	8.59448	0.2517839	0.21994945	2.7180292	21	6 30.8	20.3
158493 2002 EF_{32}	16.0	X	144.43131	278.80342	157.25890	4.33742	0.0797688	0.21286918	2.7779698	21	4 23.1	20.0
158494 2002 EX_{33}	16.3	X	348.54750	231.55305	138.65131	7.74359	0.0331430	0.23172694	2.6251353	21	10 20.6	19.7
158495 2002 EF_{39}	15.3	X	165.39397	3.77531	163.18262	11.94320	0.1135683	0.22865452	2.6485989	21	9 10.8	19.4
158496 2002 EG_{43}	15.8	X	43.59457	90.36404	174.93685	13.05662	0.0985425	0.22155969	2.7048439	21	8 20.6	19.3
158497 2002 ER_{43}	15.8	X	93.81394	2.01614	195.87893	4.61947	0.0921426	0.21971524	2.7199605	21	7 29.4	19.6
158498 2002 EA_{47}	16.1	X	173.08245	160.58730	313.28784	1.77175	0.0224657	0.22332634	2.6905604	21	7 11.0	19.8
158499 2002 EJ_{48}	15.6	X	287.17785	194.51975	178.71251	12.35869	0.0463799	0.22226474	2.6991209	21	7 19.9	19.4
158500 2002 EL_{53}	16.4	X	357.24101	292.47029	207.89819	1.98043	0.1374179	0.20189762	2.8777203	21	—	—
158501 2002 EY_{56}	16.0	X	174.87127	216.57379	210.82461	3.24747	0.0687097	0.21703807	2.7422819	21	5 14.2	20.1
158502 2002 EP_{59}	16.3	X	80.55789	34.64439	191.50111	3.85572	0.0961464	0.22253410	2.6969424	21	8 20.1	20.0
158503 2002 EN_{60}	16.3	X	38.38998	348.73705	211.00931	3.51238	0.0386856	0.21403622	2.7678626	21	5 8.9	19.7
158504 2002 EL_{66}	15.7	X	23.53303	178.03040	176.26177	15.52236	0.1337423	0.23295425	2.6159070	21	11 30.6	19.2
158505 2002 EO_{73}	15.5	X	351.83990	62.77305	186.52194	9.31889	0.1209615	0.21041537	2.7995253	21	5 4.2	18.8
158506 2002 EN_{78}	16.4	X	73.95270	12.21654	309.89327	1.89809	0.1328607	0.23839153	2.5759781	21	12 21.3	20.2
158507 2002 EN_{93}	16.2	X	73.55460	229.43759	24.30108	3.23554	0.1225701	0.22547355	2.6734515	21	9 22.9	19.9
158508 2002 EG_{94}	16.2	X	117.05425	119.79796	91.20709	1.68189	0.0458129	0.22626499	2.6672137	21	9 10.6	19.9
158509 2002 EF_{96}	15.3	X	168.23574	125.64648	187.43328	15.38678	0.3593701	0.18342509	3.0678225	21	1 8.8	21.1
158510 2002 EW_{103}	15.5	X	186.12137	351.58731	117.25993	14.06372	0.1111339	0.22205520	2.7008186	21	7 18.9	19.6
158511 2002 EJ_{104}	15.7	X	107.38156	108.94887	73.17112	11.13300	0.1061670	0.22009927	2.7167957	21	7 30.9	19.7
158512 2002 EZ_{105}	15.6	X	34.88507	116.83074	132.98986	9.61976	0.1057406	0.21731731	2.7399323	21	7 18.2	18.8
158513 2002 ET_{108}	16.1	X	290.28806	276.30313	102.85736	2.80239	0.1166404	0.22502711	2.6769864	21	7 24.0	19.5
158514 2002 EZ_{116}	16.4	X	2.49124	270.85918	95.03741	2.60139	0.1148394	0.23274223	2.6174954	21	11 8.9	19.3
158515 2002 EU_{140}	16.3	X	347.33232	244.97503	147.19219	5.61956	0.0786425	0.23566500	2.5958085	21	11 18.8	19.4
158516 2002 EL_{142}	15.5	X	73.09856	289.63728	48.98428	3.52772	0.1918435	0.23829995	2.5766381	21	—	—
158517 2002 EN_{152}	15.9	X	47.42011	337.65207	235.35931	7.95976	0.1121327	0.21541497	2.7560396	21	6 17.7	19.2
158518 2002 EQ_{152}	15.7	X	41.24516	26.04504	207.11701	11.60707	0.2152969	0.21527594	2.7572262	21	7 18.6	19.0
158519 2002 EL_{154}	16.3	X	54.09528	353.53202	214.88027	2.63438	0.1334878	0.21635962	2.7480117	21	6 25.2	19.5
158520 Ricardoferreira	14.8	X	121.08441	60.30832	136.15206	28.90575	0.0845220	0.22379484	2.6868041	21	9 1.2	18.8
158521 2002 FC_4	15.3	X	29.49392	165.28784	34.03461	10.37447	0.1568436	0.21085404	2.7956412	21	5 1.0	18.2
158522 2002 FZ_{12}	15.6	X	10.79979	219.33305	41.41480	3.19984	0.0415177	0.21518417	2.7580100	21	6 20.4	19.1
158523 2002 FL_{24}	15.5	X	186.28437	84.88782	67.15687	13.94155	0.1191320	0.23015493	2.6370753	21	9 20.7	19.8
158524 2002 GV_1	15.1	X	1.49563	195.28632	74.20514	11.20435	0.1812641	0.21322832	2.7748497	21	6 17.0	17.6
158525 2002 GV_{15}	15.8	X	343.77412	174.01231	32.54622	9.00061	0.2363357	0.20401661	2.8577596	21	2 8.6	19.2
158526 2002 GE_{16}	15.5	X	7.42171	213.93969	27.12460	5.76680	0.2392556	0.21039255	2.7997278	21	5 15.9	17.9
158527 2002 GN_{23}	15.2	X	149.58262	318.65191	19.84212	9.36799	0.1091593	0.19316020	2.9638595	21	1 5.2	19.8
158528 2002 GP_{35}	15.7	X	6.90616	287.00015	191.50955	8.62098	0.0546905	0.19682869	2.9269173	21	—	—
158529 2002 GQ_{35}	15.6	X	65.91016	146.80870	104.56433	7.28844	0.0927736	0.22395799	2.6854991	21	9 7.4	19.2
158530 2002 GC_{39}	15.9	X	33.63550	12.15869	202.58562	8.84601	0.0883873	0.21450335	2.7638427	21	5 26.8	19.2
158531 2002 GB_{52}	15.9	X	177.77055	22.85045	50.38292	4.96506	0.1290598	0.21444026	2.7643849	21	5 25.8	20.4
158532 2002 GL_{66}	15.3	X	205.39294	220.13123	180.91486	8.73130	0.0586141	0.21159128	2.7891436	21	5 16.7	19.4
158533 2002 GP_{67}	16.2	X	102.61770	71.01188	59.38567	0.67998	0.0179678	0.20990014	2.8041047	21	5 2.2	20.0
158534 2002 GO_{73}	15.5	X	327.01128	248.21509	72.63130	6.29255	0.0463206	0.21666492	2.7454296	21	7 7.9	18.9
158535 2002 GR_{77}	15.6	X	257.13936	302.21940	83.26965	6.65553	0.0741763	0.21656438	2.7462793	21	6 23.7	19.5
158536 2002 GF_{81}	15.3	X	306.75277	225.97834	79.36975	5.43695	0.0514676	0.21147656	2.7901522	21	5 18.2	18.9
158537 2002 GP_{86}	15.4	X	293.17526	192.32928	145.50150	6.72192	0.0708707	0.21349189	2.7725654	21	6 9.2	19.1
158538 2002 GN_{90}	15.5	X	219.87806	217.33626	199.55756	9.06057	0.1217246	0.21699986	2.7426038	21	6 16.8	19.8
158539 2002 GH_{91}	15.9	X	299.63054	289.70883	4.20937	3.49461	0.0752303	0.20932921	2.8092011	21	4 18.2	19.6
158540 2002 GH_{92}	15.6	X	42.05330	78.25878	8.56746	1.82674	0.0672310	0.19626739	2.9324951	21	—	—
158541 2002 GL_{94}	16.0	X	4.32343	15.77459	219.33593	7.39295	0.1547525	0.20953262	2.8073827	21	5 3.7	18.9
158542 2002 GH_{102}	15.6	X	308.35892	130.27043	136.76307	9.15109	0.1674053	0.20367479	2.8609561	21	3 16.3	19.5
158543 2002 GC_{106}	15.9	X	56.12423	104.41215	90.44489	9.69441	0.1295141	0.21265922	2.7797980	21	6 9.5	19.2
158544 2002 GV_{110}	15.3	X	318.59856	139.65421	180.43507	9.33700	0.1535078	0.21330341	2.7741984	21	6 10.4	18.7
158545 2002 GV_{112}	15.1	X	279.53122	34.13531	145.44463	7.13544	0.0480574	0.18960088	3.0008375	21	—	—
158546 2002 GO_{122}	15.8	X	150.44678	66.18039	42.09599	4.11146	0.0271429	0.21410666	2.7672555	21	6 4.3	19.7
158547 2002 GW_{124}	15.4	X	8.16274	84.99645	194.83284	13.16617	0.2197387	0.21528756	2.7571269	21	7 17.8	18.2
158548 2002 GL_{135}	16.1	X	92.31934	251.24257	249.29382	3.17911	0.0504444	0.21035689	2.8000442	21	5 6.3	19.7
158549 2002 GO_{161}	15.6	X	224.08443	148.73554	120.53312	2.62420	0.1328183	0.19147040	2.9812722	21	—	—
158550 2002 GH_{169}	16.0	X	347.36110	300.28070	303.59485	2.20575	0.0205048	0.20820472	2.8193068	21	4 24.8	19.9
158551 2002 GQ_{172}	15.9	X	306.55130	162.14890	44.58252	3.44170	0.1178498	0.19814692	2.9139214	21	1 4.7	20.1
158552 2002 HR_6	15.6	X	113.74503	258.93771	233.92401	8.11597	0.1007125	0.21194194	2.7860663	21	5 31.7	19.5
158553 2002 JS_1	15.5	X	266.42219	78.63842	225.69919	7.23732	0.2006105	0.20057890	2.8903197	21	3 7.1	20.1
158554 2002 JH_{22}	15.1	X	315.33000	269.89146	49.23697	6.75010	0.2821310	0.20997352	2.8034514	21	5 12.3	18.4
158555 2002 JR_{23}	15.1	X	4.29411	147.61073	52.94688	9.68164	0.1686187	0.20411960	2.8567983	21	3 20.5	18.2
158556 2002 JT_{37}	15.0	X	236.17947	40.48165	247.12417	10.90516	0.1497043	0.19454772	2.9497505	21	1 23.5	20.0
158557 2002 JQ_{52}	15.1	X	167.99841	190.12638	56.50244	9.29095	0.0959104	0.17968578	3.1102377	21	12 12.1	19.9
158558 2002 JV_{67}	16.7	X	258.43008	40.47003	64.83592	20.93579	0.0469692	0.37873865	1.8919499	21	11 14.4	18.2
158559 2002 JW_{71}	15.4	X	279.58076	85.91460	152.34640	7.71362	0.1677336	0.19509741	2.9442073	21	1 7.2	20.0
158560 2002 JF_{75}	15.0	X	191.70162	41.34178	244.66960	5.21679	0.2143876	0.18526940	3.0474289	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
158561 2002 JJ_{75}	14.6	X	151.67089	78.26344	242.27818	14.77309	0.0844360	0.18547630	3.0451623	21	—	—
158562 2002 JJ_{76}	15.6	X	7.24845	359.10041	224.32082	8.83506	0.0464933	0.20915019	2.8108038	21	4 24.9	19.3
158563 2002 JM_{88}	14.8	X	68.39897	312.35196	32.97434	16.92581	0.1075666	0.18113352	3.0936427	21	12 29.3	19.6
158564 2002 JW_{89}	15.5	X	320.15012	87.72337	48.47741	13.09864	0.0976743	0.18898947	3.0073062	21	—	—
158565 2002 JR_{93}	16.1	X	171.39969	296.32102	241.61008	11.97183	0.2058958	0.22503978	2.6768858	21	9 23.7	20.8
158566 2002 JN_{96}	15.5	X	194.04714	256.29747	44.56768	7.10979	0.1668265	0.18865132	3.0108988	21	1 7.6	20.5
158567 2002 JE_{99}	15.2	X	245.41844	170.71686	97.41430	16.25285	0.1732616	0.19530074	2.9421635	21	1 11.1	20.0
158568 2002 JV_{100}	14.7	X	94.58129	118.58601	179.93444	16.46807	0.2218462	0.17712674	3.1401228	21	12 12.6	20.1
158569 2002 JT_{101}	14.3	X	255.67748	28.19469	56.11265	32.43890	0.0195073	0.16974849	3.2304679	21	10 4.0	19.5
158570 2002 JJ_{103}	15.4	X	244.89516	231.79628	62.50255	11.31169	0.0679882	0.19804134	2.9149570	21	2 21.2	19.9
158571 2002 JQ_{107}	15.9	X	291.06960	133.28128	156.63589	15.45520	0.1353559	0.20255166	2.8715222	21	3 28.8	20.0
158572 2002 JF_{114}	14.5	X	87.18006	189.68622	130.94699	29.73409	0.1826453	0.17600098	3.1534988	21	12 29.9	19.8
158573 2002 JU_{117}	15.2	X	108.60377	137.18870	198.84200	24.18049	0.2545421	0.17918930	3.1159800	21	—	—
158574 2002 JX_{118}	15.0	X	351.12939	198.68340	80.92116	14.82267	0.0972574	0.21401046	2.7680847	21	6 14.5	18.3
158575 2002 JM_{119}	15.1	X	357.15688	128.99396	130.76850	13.86745	0.1492338	0.21078012	2.7962948	21	5 29.6	18.4
158576 2002 JK_{135}	15.2	X	223.40376	206.99416	126.76913	7.03035	0.0710751	0.19952659	2.9004733	21	3 14.7	19.6
158577 2002 JV_{143}	15.4	X	353.66603	170.36705	127.71443	14.44816	0.1457498	0.21531038	2.7569321	21	7 14.7	18.4
158578 2002 KQ	14.7	X	176.52687	37.68909	246.36851	11.88644	0.0812434	0.18414689	3.0598006	21	—	—
158579 2002 KT_{12}	15.1	X	195.43295	168.39168	117.19795	14.14811	0.0540896	0.18762435	3.0218756	21	—	—
158580 2002 LG_{1}	15.1	X	145.09099	115.62453	218.35613	9.27857	0.1999181	0.18498571	3.0505437	21	1 3.9	20.0
158581 2002 LK_{3}	14.4	X	176.48603	158.45081	104.88103	22.60730	0.2101988	0.17874811	3.1211052	21	—	—
158582 2002 LF_{10}	15.1	X	114.90446	227.65685	97.98452	11.41192	0.0975253	0.18049846	3.1008949	21	—	—
158583 2002 LJ_{19}	14.8	X	209.44460	248.54847	74.99180	9.74321	0.2146712	0.19162836	2.9796336	21	2 17.5	20.0
158584 2002 LB_{28}	15.0	X	145.63467	136.42212	217.09077	9.80625	0.1261408	0.18814755	3.0162708	21	1 17.9	19.7
158585 2002 LW_{29}	14.8	X	156.20822	226.36368	110.80230	11.21518	0.0941221	0.18851236	3.0123782	21	1 8.8	19.2
158586 2002 LC_{54}	14.9	X	92.02939	145.12059	222.61789	20.78435	0.1223935	0.18235047	3.0798634	21	—	—
158587 2002 LG_{55}	15.3	X	242.88271	127.25464	144.05550	10.18711	0.0272733	0.19253051	2.9703184	21	1 20.3	19.6
158588 2002 MY_{2}	14.8	X	139.76923	161.79995	152.34309	17.93262	0.2003093	0.17718287	3.1394596	21	—	—
158589 Snodgrass	15.4	X	162.86999	151.60483	149.95251	9.31163	0.1664774	0.17920472	3.1158013	21	—	—
158590 2002 NC	15.1	X	150.97084	60.81476	232.92921	4.56110	0.1196174	0.17738092	3.1371222	21	—	—
158591 2002 NV_{2}	14.8	X	218.10024	117.57116	154.92709	22.88155	0.2460363	0.18467787	3.0539328	21	—	—
158592 2002 NG_{5}	15.7	X	169.93674	83.36794	169.23265	1.62102	0.1722682	0.17560782	3.1582038	21	12 18.5	20.9
158593 2002 NA_{51}	14.7	X	167.80302	159.11376	82.83310	7.36259	0.1092535	0.17234360	3.1979569	21	12 5.9	19.7
158594 2002 PB_{37}	14.5	X	115.46134	80.73070	245.84426	12.54424	0.2491339	0.17277318	3.1926538	21	—	—
158595 2002 PH_{94}	14.1	X	107.81013	326.60206	44.66881	9.73133	0.2325864	0.12317179	4.0006315	21	1 28.0	20.0
158596 2002 PA_{128}	14.4	X	298.89295	229.38640	133.17908	10.88361	0.0889279	0.15151363	3.4847229	21	7 16.2	19.1
158597 2002 QR_{42}	15.6	X	172.07727	290.21054	4.24641	8.01967	0.2889882	0.17939376	3.1136120	21	—	—
158598 2002 RW_{26}	16.8	X	91.71400	12.73211	170.09006	23.41094	0.0431330	0.35683941	1.9685850	21	6 29.4	19.5
158599 2002 TW_{65}	17.2	X	227.16159	204.45535	208.46230	1.29862	0.1042526	0.29966569	2.2116244	21	6 19.4	20.1
158600 2002 VY_{33}	16.8	X	217.89404	6.40538	77.68001	7.28889	0.1220858	0.29864182	2.2166764	21	7 22.2	19.9
158601 2002 VR_{121}	12.6	X	81.63710	287.74872	265.93707	11.10059	0.0699334	0.08296231	5.2065354	21	7 4.8	19.5
158602 2002 XB_{28}	15.6	X	93.78861	222.13811	280.87040	11.86603	0.2058600	0.23377110	2.6098097	21	6 3.0	19.3
158603 2002 XS_{43}	17.1	X	94.52876	79.39430	58.35811	7.69277	0.0404444	0.28811102	2.2703673	21	4 28.9	19.6
158604 2002 XD_{76}	16.9	X	181.90544	27.15757	54.12906	5.71499	0.1354335	0.29171337	2.2516376	21	6 6.9	20.1
158605 2002 XZ_{79}	17.1	X	262.88925	22.97140	61.36840	5.71047	0.1575436	0.30306976	2.1950326	21	9 16.9	19.5
158606 2002 XS_{80}	16.9	X	153.98795	60.43973	60.78991	4.02070	0.1739333	0.29057657	2.2575064	21	7 4.7	20.4
158607 2002 YO_{6}	16.1	X	215.23785	144.41875	310.21672	4.69608	0.1189637	0.29637322	2.2279738	21	8 2.1	19.2
158608 2002 YO_{13}	15.9	X	113.32508	143.38853	266.64470	7.29255	0.0692359	0.22309403	2.6924279	21	2 4.6	19.7
158609 2003 AT_{27}	16.9	X	39.13641	10.33604	112.96455	2.39596	0.1882774	0.27364354	2.3497009	21	1 10.3	18.5
158610 2003 AB_{29}	17.1	X	97.76006	216.34396	254.43856	1.75911	0.1962943	0.28062878	2.3105458	21	4 19.3	19.7
158611 2003 AY_{35}	16.8	X	176.37203	188.18677	244.45391	3.48649	0.1579355	0.28981731	2.2614475	21	5 21.5	20.2
158612 2003 AR_{48}	17.1	X	292.54034	8.33321	68.14691	5.09893	0.1380090	0.30621506	2.1799759	21	10 29.6	18.8
158613 2003 AS_{49}	17.4	X	193.92237	105.11882	358.58649	2.44396	0.1179729	0.29449292	2.2374473	21	7 22.2	20.6
158614 2003 AT_{49}	16.5	X	300.95395	93.02812	90.73902	6.28672	0.1657039	0.26616915	2.3934860	21	—	—
158615 2003 AT_{53}	16.6	X	68.35342	332.24585	84.03257	7.12398	0.1245617	0.26959257	2.3731805	21	—	—
158616 2003 AU_{55}	16.7	X	86.84071	50.08364	75.94704	3.56223	0.1468536	0.28031329	2.3122791	21	4 18.7	19.1
158617 2003 AY_{55}	16.8	X	203.74669	218.18871	212.11732	6.87887	0.1431378	0.29222828	2.2489919	21	6 15.2	20.1
158618 2003 AH_{74}	16.8	X	96.32349	101.19506	59.30762	9.13557	0.1247901	0.28716009	2.2753768	21	6 16.4	19.5
158619 2003 AD_{80}	16.4	X	7.03064	127.02807	72.79474	7.56735	0.0519511	0.27417334	2.3466729	21	3 18.7	19.1
158620 2003 AU_{82}	16.7	X	176.04234	245.70680	280.23195	2.95647	0.0979600	0.30130435	2.2035984	21	9 24.9	19.6
158621 2003 BJ	16.6	X	130.05083	324.66992	220.97134	3.77601	0.0729295	0.29780690	2.2208175	21	8 28.3	19.5
158622 2003 BN_{2}	17.1	X	265.00978	176.96872	308.05631	1.63205	0.0758894	0.25157739	2.4851636	21	11 18.5	20.1
158623 Perali	16.7	X	195.36811	203.12082	184.36281	6.59643	0.1346950	0.28307604	2.2972097	21	4 11.5	20.1
158624 2003 BD_{6}	16.7	X	14.11895	231.40826	304.09809	1.92498	0.1109691	0.27462105	2.3441217	21	2 13.1	19.0
158625 2003 BN_{8}	16.2	X	37.98096	232.59783	264.80948	3.76696	0.1722570	0.27436447	2.3455830	21	1 29.5	17.9
158626 2003 BO_{11}	16.7	X	8.81742	83.65188	109.41242	4.04061	0.1650101	0.27501475	2.3418841	21	2 25.8	18.6
158627 2003 BB_{23}	17.1	X	43.05635	312.31530	189.86951	9.66605	0.1506964	0.27536144	2.3399180	21	2 15.3	19.1
158628 2003 BP_{26}	16.5	X	11.84306	264.56141	285.63802	4.11305	0.1766879	0.27445491	2.3450677	21	2 22.7	18.5
158629 2003 BQ_{30}	16.8	X	1.98380	300.93889	240.72634	1.37338	0.1365644	0.27373072	2.3492020	21	1 28.5	19.0
158630 2003 BJ_{31}	16.4	X	168.69730	141.87597	331.81442	1.84960	0.1388206	0.29058676	2.2574536	21	7 8.2	19.6
158631 2003 BM_{34}	17.4	X	357.70869	12.07162	141.37742	0.60457	0.1554689	0.27026299	2.3692542	21	—	—
158632 2003 BF_{42}	16.9	X	353.78218	58.49809	170.31148	3.55307	0.2138703	0.27698322	2.3307753	21	3 13.1	18.8
158633 2003 BO_{43}	16.5	X	358.72877	239.01346	356.10520	5.17128	0.1285417	0.27925017	2.3181441	21	4 12.2	18.6
158634 2003 BZ_{45}	16.1	X	300.30483	109.68675	154.69774	7.14978	0.0874195	0.27270887	2.3550667	21	3 1.5	19.0
158635 2003 BU_{71}	16.9	X	11.06710	248.16436	205.84966	5.85724	0.2807314	0.26578487	2.3957926	21	—	—
158636 2003 BY_{71}	16.7	X	105.42211	253.99904	210.83781	5.29565	0.0922205	0.27970025	2.3156565	21	4 4.6	19.5
158637 2003 BH_{75}	16.3	X	293.87770	254.37077	50.04569	8.55048	0.1373959	0.28256651	2.2999705	21	4 10.7	19.2
158638 2003 BD_{79}	17.2	X	151.27037	17.44082	74.54433	3.97780	0.1251415	0.28579205	2.2826323	21	5 20.0	20.3
158639 2003 BZ_{82}	16.0	X	227.57673	76.91831	143.79760	7.38258	0.2031310	0.25601414	2.4563679	21	—	—
158640 2003 BW_{89}	16.7	X	103.78353	255.67602	222.83151	4.75937	0.1584825	0.28020047	2.3128998	21	5 3.3	19.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
158641 2003 BR_{90}	16.8	X	96.00871	150.43224	52.03534	7.52925	0.0806315	0.29202809	2.2500196	21	8 14.1	19.7
158642 2003 CM_{2}	16.6	X	118.05876	305.46743	157.16498	9.64438	0.0674595	0.28179822	2.3041490	21	4 19.1	19.5
158643 2003 CG_{5}	17.0	X	47.35216	145.17965	70.81516	5.36542	0.1263392	0.28580278	2.2825751	21	6 22.4	19.2
158644 2003 CO_{5}	17.1	X	160.97702	34.38175	38.50086	4.50340	0.1214606	0.28506716	2.2865003	21	5 3.9	20.4
158645 2003 CE_{13}	16.8	X	65.04753	13.05513	108.54520	2.98792	0.1578291	0.27456844	2.3444212	21	3 6.7	18.9
158646 2003 CL_{20}	17.2	X	50.56880	315.22219	204.34234	1.68610	0.1793579	0.27681702	2.3317081	21	4 6.1	18.7
158647 2003 DL_{2}	15.9	X	335.12370	310.61657	307.58271	7.98943	0.1345038	0.27815843	2.3242057	21	3 30.6	18.5
158648 2003 DA_{8}	16.5	X	335.93544	6.39186	151.26452	6.43657	0.0626833	0.26483765	2.4015017	21	—	—
158649 2003 DE_{10}	16.9	X	28.55836	39.24073	112.10601	3.14722	0.1403824	0.27156957	2.3616488	21	2 3.9	19.0
158650 2003 DF_{10}	16.9	X	322.18518	107.09496	85.68406	3.16269	0.1631372	0.26600713	2.3944579	21	—	—
158651 2003 DP_{12}	16.4	X	335.24497	53.02804	193.57052	2.04866	0.1836579	0.27429764	2.3459639	21	3 10.5	18.7
158652 2003 DW_{14}	16.9	X	313.80994	140.72235	73.65498	3.31193	0.1583307	0.26779458	2.3837911	21	1 2.1	20.1
158653 2003 DP_{15}	16.2	X	317.25273	285.37859	344.45010	6.55821	0.1018544	0.27766720	2.3269461	21	3 27.5	18.8
158654 2003 DE_{24}	16.8	X	342.65730	318.86115	243.78392	3.22736	0.1110842	0.27149434	2.3620851	21	1 30.4	19.5
158655 2003 DF_{24}	16.7	X	334.90579	347.29980	175.95520	6.38736	0.0899204	0.26505257	2.4002033	21	—	—
158656 2003 DH_{24}	16.8	X	274.06116	136.75316	70.26304	7.16510	0.0818549	0.26115213	2.4240431	21	—	—
158657 Celian	17.0	X	333.15096	350.64475	129.30139	3.30968	0.1455806	0.25958171	2.4338099	21	—	—
158658 2003 EV	17.0	X	2.75689	96.96234	91.76744	5.92755	0.1598027	0.27256044	2.3559216	21	2 8.7	19.2
158659 2003 EJ_{19}	16.8	X	106.18337	204.16934	255.17979	1.65382	0.1693283	0.27769908	2.3267680	21	4 10.7	19.6
158660 2003 EE_{23}	16.5	X	31.98255	73.98887	67.30010	3.53887	0.1681393	0.27042068	2.3683331	21	1 26.0	18.3
158661 2003 EK_{25}	16.8	X	50.71106	73.61766	70.35809	3.99510	0.1154833	0.27324254	2.3519992	21	3 9.9	19.0
158662 2003 EP_{25}	16.1	X	249.25987	123.60050	140.93953	7.55251	0.0992026	0.26428510	2.4048478	21	1 1.9	19.7
158663 2003 EF_{27}	17.6	X	317.23159	30.90188	141.77744	0.73227	0.1497254	0.26321845	2.4113403	21	—	—
158664 2003 EJ_{28}	16.0	X	290.37332	56.28955	144.56253	6.89407	0.0658756	0.26130488	2.4230983	21	—	—
158665 2003 EV_{30}	16.8	X	335.50497	8.69006	200.35258	0.84441	0.1275517	0.26998408	2.3708856	21	1 27.3	19.3
158666 2003 EL_{32}	17.0	X	48.16368	274.88513	202.57932	1.68414	0.1607344	0.27085661	2.3657913	21	1 22.7	18.9
158667 2003 ET_{32}	17.0	X	323.37590	206.62715	337.74130	1.78865	0.1533354	0.26492802	2.4009556	21	—	—
158668 2003 EU_{41}	16.3	X	262.43000	107.28995	167.95203	7.49114	0.1020682	0.26860459	2.3789963	21	1 27.2	19.7
158669 2003 EA_{47}	16.0	X	240.47882	7.22017	225.83934	9.42345	0.2233284	0.25616041	2.4554328	21	—	—
158670 2003 EL_{50}	16.2	X	280.92295	48.26538	159.29819	6.78189	0.0754097	0.25974730	2.4327754	21	—	—
158671 2003 EU_{59}	16.2	X	312.53871	105.67211	35.78224	23.40626	0.2026591	0.25759844	2.4462860	21	—	—
158672 2003 ED_{62}	15.9	X	206.42037	222.18350	82.19391	13.21635	0.1748387	0.26067106	2.4270245	21	1 11.3	19.9
158673 2003 FO_{5}	16.7	X	66.31073	46.20313	93.57809	4.64218	0.0719031	0.27434026	2.3457210	21	3 26.9	19.3
158674 2003 FH_{6}	16.0	X	293.02113	38.39779	200.42240	5.82890	0.0681582	0.26557761	2.3970388	21	1 19.6	19.2
158675 2003 FZ_{9}	16.9	X	329.77037	158.62108	51.06932	1.94484	0.1307549	0.26797166	2.3827408	21	1 20.8	19.7
158676 2003 FY_{16}	16.9	X	329.92571	165.07523	133.50856	3.25161	0.1686215	0.28111514	2.3078800	21	5 23.2	19.0
158677 2003 FT_{27}	16.4	X	155.76831	144.06326	209.97072	6.03422	0.1311728	0.26400417	2.4065535	21	1 17.4	19.8
158678 2003 FV_{27}	17.5	X	207.67917	66.44313	212.43410	4.86665	0.2070010	0.25737600	2.4476953	21	—	—
158679 2003 FK_{29}	16.6	X	207.37435	7.87157	44.43613	8.19109	0.1170157	0.28397539	2.2923570	21	5 25.5	20.0
158680 2003 FS_{34}	16.5	X	282.14573	168.98792	160.29930	2.96684	0.1772479	0.27748664	2.3279555	21	4 23.1	19.6
158681 2003 FK_{40}	16.9	X	269.77870	34.12279	237.33261	1.41430	0.1975006	0.26529730	2.3987270	21	1 24.1	20.8
158682 2003 FK_{41}	16.8	X	8.83615	96.65449	70.01500	4.40127	0.1751451	0.27016961	2.3698001	21	1 15.7	19.1
158683 2003 FA_{43}	16.9	X	50.47808	279.19956	214.46714	2.34210	0.1409651	0.27129359	2.3632501	21	2 20.2	19.0
158684 2003 FD_{47}	16.1	X	271.34952	314.16568	18.91934	5.99869	0.2050005	0.27550241	2.3391197	21	4 11.5	19.5
158685 2003 FM_{47}	17.0	X	312.24589	151.20567	0.25893	1.19349	0.1299242	0.25814966	2.4428024	21	—	—
158686 2003 FX_{49}	15.8	X	91.70730	120.49830	145.34504	14.09731	0.1847193	0.23724462	2.5842734	21	11 9.9	20.1
158687 2003 FW_{51}	16.9	X	319.02228	182.55735	30.97532	2.73897	0.1566625	0.26800686	2.3825322	21	1 7.7	19.9
158688 2003 FZ_{54}	16.4	X	307.25808	105.99376	62.68186	9.93821	0.1630071	0.25843598	2.4409978	21	—	—
158689 2003 FK_{62}	15.9	X	321.55137	96.75051	120.41638	5.48539	0.1545431	0.26735135	2.3864250	21	1 15.6	19.1
158690 2003 FU_{63}	17.5	X	334.84952	45.95929	109.28460	2.41087	0.1356136	0.26211463	2.4181053	21	—	—
158691 2003 FV_{64}	16.8	X	239.73835	163.64386	72.93892	3.38915	0.1557495	0.25694049	2.4504604	21	—	—
158692 2003 FS_{65}	16.4	X	234.64364	57.24112	204.62545	4.61830	0.0801466	0.26062332	2.4273209	21	—	—
158693 2003 FM_{69}	16.3	X	209.96132	245.90828	52.28066	8.20646	0.1702547	0.26041428	2.4286197	21	1 7.1	20.2
158694 2003 FW_{77}	16.7	X	352.69850	0.39338	161.00554	2.71749	0.1434137	0.26519225	2.3993604	21	—	—
158695 2003 FK_{80}	16.2	X	252.28500	153.07621	116.28830	7.61121	0.0983601	0.26421134	2.4052954	21	1 11.3	19.7
158696 2003 FV_{82}	16.1	X	24.09530	354.90987	153.04719	6.56866	0.0699518	0.26639560	2.3921295	21	1 26.1	18.6
158697 2003 FG_{83}	16.0	X	145.96679	76.97906	171.22866	11.46873	0.1742529	0.24268201	2.5455267	21	12 3.8	20.4
158698 2003 FL_{92}	16.8	X	310.93582	71.73343	67.07341	3.09219	0.1312158	0.25588556	2.4571907	21	—	—
158699 2003 FA_{101}	16.0	X	298.81897	254.97744	5.66878	4.28396	0.1344971	0.26963463	2.3729337	21	2 17.4	19.0
158700 2003 FR_{108}	15.4	X	307.01503	257.10479	27.44198	6.96717	0.2587501	0.21826663	2.7319820	21	3 20.9	19.1
158701 2003 FU_{108}	16.5	X	301.08866	351.34055	273.62229	4.12883	0.2271323	0.27035503	2.3687165	21	2 10.6	19.9
158702 2003 FP_{121}	16.2	X	271.42324	0.66824	294.35216	5.61697	0.1515309	0.27184728	2.3600402	21	2 25.2	19.6
158703 2003 FX_{130}	16.3	X	160.42437	188.55907	111.13114	8.13058	0.2301701	0.25084475	2.4900002	21	—	—
158704 2003 FK_{131}	16.2	X	321.41491	315.48656	196.99310	4.73185	0.0662012	0.25722936	2.4486254	21	—	—
158705 2003 GO_{3}	16.4	X	224.79282	25.79597	198.09430	2.69438	0.1760482	0.25305848	2.4754574	21	—	—
158706 2003 GL_{7}	17.1	X	250.88667	3.96275	205.47772	1.65613	0.1538611	0.25503822	2.4626302	21	—	—
158707 2003 GQ_{7}	16.3	X	135.41842	61.72130	189.93621	6.67894	0.1758184	0.24268973	2.5454727	21	11 28.3	20.5
158708 2003 GY_{7}	16.4	X	251.49687	252.13518	52.11882	3.27617	0.1753054	0.26770558	2.3843194	21	2 19.7	20.1
158709 2003 GJ_{12}	17.2	X	335.99447	306.02341	187.73196	1.65156	0.1632032	0.26081797	2.4261131	21	—	—
158710 2003 GA_{19}	16.9	X	46.79306	72.28372	11.01404	3.95417	0.1209898	0.26252417	2.4155898	21	—	—
158711 2003 GB_{27}	16.7	X	243.28966	233.35554	46.02169	4.12228	0.1995409	0.26177262	2.4202110	21	1 12.4	20.7
158712 2003 GZ_{42}	16.1	X	260.11734	145.31507	82.70155	12.25463	0.1551177	0.25939020	2.4350077	21	—	—
158713 2003 HC_{5}	15.8	X	6.24269	128.93029	207.19080	12.73294	0.2743674	0.22937140	2.6430774	21	10 24.1	17.8
158714 2003 HO_{12}	17.3	X	299.26569	36.25403	135.53340	3.02871	0.1670396	0.25679258	2.4514013	21	—	—
158715 2003 HR_{21}	16.1	X	131.14436	111.11144	168.35549	5.72585	0.2756580	0.24120407	2.5559144	21	12 27.3	20.8
158716 2003 HS_{22}	15.7	X	170.64978	122.29048	76.11150	34.27875	0.1181229	0.23955177	2.5676537	21	11 9.8	20.1
158717 2003 HP_{45}	16.3	X	124.14104	229.13981	41.83086	5.19442	0.2150444	0.24039747	2.5616284	21	12 11.0	20.7
158718 2003 HW_{45}	16.4	X	164.45256	86.97157	157.16113	4.38409	0.1017607	0.24519168	2.5281271	21	12 16.9	20.2
158719 2003 JL_{7}	16.6	X	219.92489	147.40732	128.90361	3.39890	0.1875288	0.25741894	2.4474231	21	—	—
158720 2003 JF_{17}	15.4	X	89.42621	262.71120	71.85901	14.08579	0.3026929	0.24075268	2.5591081	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
158721 2003 KN_{10}	16.1	X	101.05333	141.97299	126.10522	13.83645	0.2794448	0.23229562	2.6208492	21	11 26.1	20.8
158722 2003 KC_{18}	16.0	X	194.10162	68.33760	129.15379	4.80582	0.1930938	0.24175138	2.5520552	21	11 13.7	20.1
158723 2003 KK_{28}	16.2	X	115.55014	212.57905	85.26510	9.95124	0.0644732	0.24389282	2.5370949	21	12 31.3	19.9
158724 2003 KX_{34}	15.6	X	106.78154	33.81551	252.91948	7.91413	0.1494682	0.23861578	2.5743639	21	12 12.4	19.4
158725 2003 KD_{35}	15.0	X	269.79901	215.74194	225.55946	25.61529	0.0355408	0.23322364	2.6138922	21	9 25.4	18.9
158726 2003 LG_{2}	15.5	X	63.88527	195.66774	120.22903	7.26092	0.1892315	0.23448006	2.6045464	21	12 9.6	19.4
158727 2003 MD	15.3	X	97.71554	101.02047	211.03620	26.38156	0.2951035	0.23689910	2.5867856	21	—	—
158728 2003 ML_{1}	15.5	X	70.22134	125.57649	176.31928	17.65160	0.1670750	0.23328185	2.6134573	21	11 27.9	19.6
158729 2003 MP_{3}	15.1	X	346.29790	203.35887	108.31606	15.01953	0.2016117	0.21876790	2.7278070	21	7 17.7	17.4
158730 2003 MJ_{7}	15.4	X	193.06678	23.47077	181.55360	14.84943	0.0857170	0.24072066	2.5593350	21	11 30.8	19.4
158731 2003 MS_{8}	15.9	X	111.78898	82.90532	185.18708	4.44166	0.2613057	0.23423499	2.6063628	21	11 30.4	20.5
158732 2003 NS_{7}	15.5	X	328.74321	127.92303	199.58269	7.76102	0.1994852	0.21691108	2.7433522	21	7 1.7	18.5
158733 2003 OS_{5}	15.7	X	45.32197	324.08384	318.96893	12.73109	0.2410114	0.22475742	2.6791274	21	10 4.6	19.3
158734 2003 OP_{12}	15.6	X	30.37113	46.20062	245.57038	16.82959	0.2315268	0.22274678	2.6952254	21	9 20.5	19.0
158735 2003 OG_{19}	15.5	X	28.47411	55.68823	242.34127	6.78098	0.1815172	0.22239247	2.6980873	21	9 22.3	18.7
158736 2003 PK_{3}	15.3	X	337.94261	311.27333	327.88264	12.58308	0.1784840	0.21157240	2.7893095	21	5 7.4	18.6
158737 2003 PL_{3}	16.0	X	321.86991	181.84713	134.69426	4.01539	0.1944156	0.21349584	2.7725311	21	6 4.5	19.2
158738 2003 QF_{8}	15.1	X	191.49473	39.08946	268.49701	9.90941	0.1515566	0.19089979	2.9872100	21	1 10.6	20.0
158739 2003 QY_{31}	16.1	X	6.92248	133.08054	158.93203	8.47446	0.1684564	0.21736422	2.7395381	21	8 1.9	18.9
158740 2003 QJ_{36}	15.0	X	159.06150	144.10417	169.91994	12.20698	0.1263449	0.18589800	3.0405553	21	—	—
158741 2003 QA_{37}	15.6	X	217.59308	266.71580	70.83734	3.01571	0.0706795	0.19932424	2.9024359	21	3 12.3	19.9
158742 2003 QV_{41}	15.6	X	174.04491	176.82788	165.31092	5.71991	0.1997340	0.19108620	2.9852669	21	2 6.6	20.5
158743 2003 QH_{43}	15.2	X	50.84105	220.69658	195.88738	12.92732	0.1132981	0.18392359	3.0622767	21	—	—
158744 2003 QT_{44}	15.2	X	23.26175	199.07025	160.07149	6.47838	0.1779448	0.17135063	3.2102997	21	11 28.5	19.3
158745 2003 QU_{49}	15.7	X	238.02987	260.36925	67.03145	3.25214	0.1530915	0.20159631	2.8805870	21	3 16.3	20.4
158746 2003 QF_{51}	15.2	X	164.57997	212.54476	128.53517	4.34056	0.1061647	0.18912300	3.0058905	21	1 22.8	19.8
158747 2003 QF_{52}	15.1	X	154.79329	228.01622	126.90451	11.38632	0.0980665	0.19163374	2.9795778	21	1 28.1	19.4
158748 2003 QX_{56}	15.5	X	321.15337	169.39585	148.58358	14.74250	0.1970818	0.21220965	2.7837227	21	6 7.1	19.0
158749 2003 QW_{57}	14.8	X	194.36004	353.51645	314.12453	9.24059	0.0913816	0.19036108	2.9928430	21	1 13.2	19.4
158750 2003 QB_{61}	15.1	X	67.60169	259.63390	131.71808	8.84093	0.2502873	0.17951797	3.1121757	21	—	—
158751 2003 QZ_{62}	14.9	X	91.50933	279.37011	98.01852	6.44701	0.0644550	0.18307230	3.0717624	21	—	—
158752 2003 QV_{71}	15.5	X	314.43706	116.11053	219.09647	13.30998	0.2796201	0.21341057	2.7732697	21	6 3.1	18.8
158753 2003 QP_{76}	15.7	X	296.63465	121.59048	206.69274	6.92211	0.2256576	0.20959161	2.8068559	21	5 7.9	19.4
158754 2003 QW_{81}	15.4	X	68.48931	354.49431	348.44403	1.90186	0.0498316	0.17657211	3.1466950	21	12 18.4	19.9
158755 2003 QP_{85}	15.0	X	172.35744	99.86620	249.54734	6.95274	0.1258938	0.19194730	2.9763321	21	2 7.5	19.7
158756 2003 QU_{87}	15.4	X	197.39233	220.55296	130.21328	2.75846	0.0728993	0.19679846	2.9272170	21	3 6.6	19.9
158757 2003 QV_{87}	14.7	X	34.53066	209.52851	177.93110	7.46374	0.1024857	0.17598366	3.1537056	21	—	—
158758 2003 QG_{95}	14.6	X	43.45126	257.74921	121.78790	13.21831	0.2505217	0.17421778	3.1749806	21	—	—
158759 2003 QC_{96}	14.8	X	134.97222	296.10526	70.74058	10.77118	0.1108777	0.18898590	3.0073441	21	1 24.9	19.3
158760 2003 QL_{101}	14.9	X	58.89213	189.94406	160.20218	10.18241	0.0340514	0.17570205	3.1570745	21	12 14.3	19.5
158761 2003 QK_{102}	14.9	X	35.64716	225.70394	171.33515	10.48856	0.1093500	0.17887077	3.1196782	21	—	—
158762 2003 RS	13.8	X	353.19726	141.44991	250.98007	15.37822	0.0826871	0.16908845	3.2388693	21	11 12.0	18.0
158763 2003 RO_{7}	14.3	X	26.22079	182.59415	194.31162	13.87614	0.0902558	0.17028381	3.2236940	21	12 11.7	18.9
158764 2003 RM_{12}	15.5	X	116.31331	325.65856	26.31519	7.94937	0.1634063	0.18489997	3.0514868	21	—	—
158765 2003 RA_{13}	15.2	X	23.61422	207.75877	189.81838	5.30743	0.1557194	0.17506690	3.1647059	21	—	—
158766 2003 SD_{5}	14.4	X	56.81424	186.18576	199.12550	14.82603	0.1367768	0.17618930	3.1512513	21	—	—
158767 2003 SG_{5}	15.1	X	163.11235	156.84713	182.36124	11.46713	0.1524013	0.18725433	3.0258552	21	1 21.2	20.1
158768 2003 SQ_{45}	15.4	X	23.29684	338.43563	42.09964	6.83551	0.1507695	0.17187559	3.2037596	21	12 19.6	19.6
158769 2003 SY_{47}	14.7	X	184.36791	357.13896	228.57400	9.87506	0.0635833	0.17465459	3.1696846	21	12 5.8	19.4
158770 2003 SD_{56}	15.1	X	49.56009	181.11126	207.77709	9.38246	0.0653018	0.17858430	3.1230136	21	—	—
158771 2003 SC_{58}	15.4	X	139.91945	240.18489	84.00839	2.73938	0.1490891	0.18142878	3.0902855	21	—	—
158772 2003 SB_{60}	15.0	X	40.74580	293.52528	88.47470	5.86909	0.0808669	0.17633971	3.1494591	21	—	—
158773 2003 SY_{60}	15.7	X	138.73433	130.12652	221.35305	2.74325	0.1628952	0.18674918	3.0313093	21	1 14.6	20.4
158774 2003 SK_{62}	14.8	X	255.77774	319.18583	226.39409	9.05617	0.0385492	0.17974931	3.1095048	21	—	—
158775 2003 SR_{64}	14.8	X	97.49313	108.78182	195.17799	7.53345	0.0323118	0.17192922	3.2030932	21	12 3.4	19.4
158776 2003 SK_{65}	14.7	X	13.46619	174.71570	208.15444	15.46416	0.0620833	0.17292074	3.1908373	21	11 29.5	19.1
158777 2003 SV_{65}	15.4	X	164.29393	299.41211	53.20068	6.57927	0.2072949	0.19044117	2.9920039	21	2 14.6	20.5
158778 2003 SC_{67}	14.5	X	338.43629	219.73313	193.17496	17.70441	0.0913335	0.17101605	3.2144855	21	11 19.1	18.8
158779 2003 SJ_{75}	14.5	X	305.05489	242.55542	197.84480	4.99950	0.1099304	0.16829767	3.2490070	21	10 31.3	18.7
158780 2003 SN_{75}	14.9	X	66.02858	126.33020	206.23670	1.18383	0.0792189	0.17225562	3.1990458	21	12 6.5	19.4
158781 2003 SO_{90}	14.8	X	123.04628	258.02242	57.09395	10.22144	0.0739492	0.17798892	3.1299740	21	—	—
158782 2003 SB_{97}	14.5	X	305.12999	232.48233	225.33536	16.16701	0.0912559	0.17141890	3.2094473	21	11 24.1	18.6
158783 2003 SO_{102}	14.8	X	117.94500	117.22982	220.92867	8.85134	0.1060450	0.18141232	3.0904724	21	—	—
158784 2003 SB_{103}	15.0	X	152.72138	132.38680	234.46068	9.29513	0.1488898	0.19085315	2.9876966	21	2 10.1	19.8
158785 2003 SG_{118}	14.8	X	189.80877	49.65891	194.26398	11.28731	0.0295327	0.17680131	3.1439749	21	—	—
158786 2003 SB_{121}	14.8	X	59.24815	215.80270	127.94381	10.18652	0.0610491	0.17363945	3.1820264	21	12 10.8	19.4
158787 2003 SJ_{121}	16.1	X	267.16305	27.47284	216.49777	5.72670	0.0902159	0.19185019	2.9773363	21	1 8.9	20.6
158788 2003 SK_{126}	15.5	X	81.95258	152.47469	186.93510	5.25065	0.1371431	0.17408239	3.1766265	21	—	—
158789 2003 SB_{128}	14.8	X	145.25755	154.57012	199.22538	5.83684	0.1250465	0.18589960	3.0405379	21	1 19.2	19.4
158790 2003 SG_{134}	15.1	X	248.86526	15.79155	200.34962	9.83057	0.0539339	0.18479652	3.0526254	21	—	—
158791 2003 SJ_{138}	15.0	X	159.21351	93.96212	242.63449	7.35781	0.1759299	0.18599914	3.0394529	21	1 17.1	19.9
158792 2003 SM_{139}	14.9	X	170.26585	210.13566	122.84705	8.55682	0.0900084	0.18764524	3.0216513	21	1 18.1	19.4
158793 2003 SF_{143}	15.1	X	198.50207	189.45591	117.24201	6.05534	0.1767986	0.18743130	3.0239502	21	1 17.6	20.0
158794 2003 SG_{149}	15.1	X	141.92458	284.84775	35.69622	1.39777	0.1496126	0.18135439	3.0911305	21	—	—
158795 2003 SZ_{157}	14.9	X	222.97158	318.46629	298.14742	4.96768	0.1056334	0.18470706	3.0536111	21	—	—
158796 2003 SQ_{162}	14.7	X	161.11403	166.61601	167.92446	10.30022	0.0989825	0.18519736	3.0482192	21	1 10.8	19.4
158797 2003 SR_{164}	15.0	X	172.18957	265.56610	39.89915	10.16555	0.1132277	0.18288145	3.0738992	21	—	—
158798 2003 SR_{168}	14.9	X	45.85088	239.90036	127.20473	10.21657	0.0872121	0.17410477	3.1763543	21	12 25.2	19.3
158799 2003 SV_{186}	15.0	X	205.76409	158.78118	145.37553	10.72886	0.0712088	0.18959742	3.0008741	21	1 18.5	19.6
158800 2003 SX_{187}	16.1	X	200.42563	138.34049	189.94529	2.73139	0.1425516	0.19416791	2.9535959	21	2 10.7	20.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
158801 2003 SP_{199}	14.8	X	154.69043	77.58101	216.78405	11.45053	0.1024586	0.17771842	3.1331493	21	—	—
158802 2003 SU_{235}	15.4	X	164.32243	341.69105	291.99736	3.76286	0.1096360	0.17851079	3.1238709	21	—	—
158803 2003 SZ_{257}	15.0	X	130.18887	221.92088	95.57774	2.73001	0.1091120	0.17851841	3.1237820	21	—	—
158804 2003 SS_{269}	14.6	X	67.77962	232.00013	105.35182	8.11227	0.1466926	0.17118492	3.2123712	21	12 22.5	19.2
158805 2003 SD_{274}	15.4	X	33.80016	219.87393	133.88732	2.37558	0.0628159	0.16927187	3.2365292	21	11 20.2	19.9
158806 2003 SG_{285}	15.4	X	126.78785	144.89755	198.69688	1.57950	0.0606033	0.18197826	3.0840616	21	—	—
158807 2003 SE_{311}	15.1	X	134.66692	118.52737	181.38309	9.42451	0.0555020	0.17750145	3.1357020	21	—	—
158808 2003 SX_{319}	15.3	X	106.49517	121.67075	235.89801	9.59399	0.0881173	0.18485929	3.0519344	21	—	—
158809 2003 SS_{320}	16.0	X	188.36246	309.07938	348.63929	0.58746	0.1105960	0.18687496	3.0299489	21	—	—
158810 2003 TY_{9}	13.9	X	127.26780	21.81380	275.11283	16.59845	0.0494645	0.17596831	3.1538891	21	12 29.0	18.6
158811 2003 TZ_{14}	14.4	X	51.73780	124.51060	289.71980	2.48524	0.2207945	0.12454238	3.9712260	21	—	—
158812 2003 TX_{57}	15.0	X	116.64701	163.73284	159.89635	10.09027	0.0656726	0.17690181	3.1427840	21	—	—
158813 2003 UM_{18}	14.9	X	148.71343	190.07250	163.53706	13.37225	0.2121747	0.18462423	3.0545243	21	1 30.6	19.9
158814 2003 UZ_{61}	14.5	X	127.99535	257.01344	62.81770	10.70990	0.0949014	0.17877173	3.1208303	21	—	—
158815 2003 US_{62}	15.0	X	152.16782	177.55924	129.12337	7.37519	0.1825952	0.18272091	3.0756994	21	—	—
158816 2003 UM_{90}	15.9	X	103.46577	135.38461	150.77002	2.09378	0.1724166	0.17199160	3.2023187	21	12 1.3	21.1
158817 2003 UX_{102}	15.1	X	192.46356	127.73528	170.12139	5.26898	0.1557697	0.18533046	3.0467595	21	1 1.9	20.1
158818 2003 UK_{125}	14.8	X	110.02214	270.47918	68.98195	6.67711	0.1435333	0.17800529	3.1297821	21	—	—
158819 2003 UZ_{136}	15.4	X	164.64532	225.91992	84.98219	2.03650	0.1309196	0.18253843	3.0777488	21	—	—
158820 2003 UK_{151}	14.5	X	80.37110	292.54771	63.27471	9.35281	0.1676574	0.17382600	3.1797494	21	—	—
158821 2003 UC_{202}	14.3	X	79.98582	260.17327	76.60234	11.80494	0.2698640	0.17209612	3.2010220	21	—	—
158822 2003 UC_{218}	14.9	X	147.60977	235.67812	94.16096	5.60963	0.1965962	0.18234347	3.0799422	21	1 2.9	19.8
158823 2003 UG_{231}	15.1	X	111.18898	296.34426	11.45801	4.92523	0.1602144	0.17449785	3.1715824	21	—	—
158824 2003 UY_{254}	14.6	X	193.78778	339.92795	200.17869	14.77286	0.0286087	0.16846499	3.2468553	21	10 25.3	19.2
158825 2003 UZ_{256}	14.6	X	82.55323	269.83812	72.39153	8.51150	0.1901877	0.17209466	3.2010402	21	—	—
158826 2003 WP_{96}	15.7	X	191.97709	311.46564	13.11139	0.48419	0.2522705	0.18832358	3.0143909	21	2 3.4	21.1
158827 2003 WM_{146}	14.2	X	46.73760	259.23779	114.56765	14.31812	0.2940919	0.17218551	3.1999141	21	—	—
158828 2003 YZ_{29}	16.4	X	247.97836	4.59529	102.83016	24.75772	0.0843350	0.37443860	1.9064071	21	11 4.3	18.9
158829 2003 YB_{118}	16.5	X	4.59596	316.85841	111.70813	27.88598	0.0869536	0.38598590	1.8681931	21	—	—
158830 2004 BQ_{26}	17.0	X	355.17244	283.17172	121.08230	21.29610	0.0727720	0.38318643	1.8772811	21	—	—
158831 2004 CR_{3}	16.4	X	268.87682	304.67182	115.77004	4.05393	0.1568197	0.25965674	2.4333410	21	8 15.6	19.3
158832 2004 CQ_{51}	17.0	X	8.21064	145.72982	173.29936	22.40688	0.0825502	0.36741799	1.9306154	21	9 30.3	18.3
158833 2004 ET_{23}	17.0	X	113.74091	319.05336	205.22373	20.13159	0.0561239	0.35731913	1.9668227	21	7 2.4	19.7
158834 2004 EV_{35}	16.9	X	254.16449	313.90395	184.92839	20.30902	0.0457659	0.37826785	1.8935194	21	12 26.7	19.2
158835 2004 FX_{28}	16.5	X	236.80629	333.59355	42.01424	22.47386	0.0803265	0.35279962	1.9835842	21	5 6.1	18.6
158836 2004 FD_{106}	16.8	X	231.57402	157.76506	212.39726	20.96183	0.0796408	0.35011463	1.9937126	21	4 22.6	19.1
158837 2004 FE_{107}	15.9	X	164.16588	75.17516	324.69272	1.63525	0.0683895	0.23090174	2.6313861	21	3 25.5	19.7
158838 2004 HH_{1}	16.6	X	281.28662	336.25015	332.49211	4.36164	0.2007994	0.28757815	2.2731711	21	3 19.2	19.7
158839 2004 HC_{22}	17.1	X	203.84898	184.27542	200.73180	4.64497	0.1516136	0.28928491	2.2642212	21	4 15.6	20.6
158840 2004 KS	16.9	X	129.93237	199.06458	131.90000	1.64504	0.1685221	0.32002339	2.1168085	21	—	—
158841 2004 KE_{9}	16.8	X	30.14993	220.38444	110.76049	5.82131	0.0863410	0.30463788	2.1874936	21	11 15.5	19.2
158842 2004 LF_{31}	16.0	X	90.73229	155.91977	218.56143	10.09761	0.2268275	0.25397958	2.4694687	21	—	—
158843 2004 NG	16.2	X	133.71613	352.04092	352.47401	1.75264	0.2164728	0.25926296	2.4358044	21	—	—
158844 2004 NK_{2}	16.6	X	291.91054	197.31132	97.59163	8.15514	0.1211475	0.27860225	2.3217367	21	3 30.8	19.7
158845 2004 NJ_{3}	16.6	X	274.06252	265.64663	56.60202	5.60874	0.1169056	0.27705189	2.3303902	21	4 12.6	19.7
158846 2004 NY_{7}	16.7	X	97.40096	151.44351	124.67775	5.99157	0.1621769	0.30447702	2.1882639	21	12 1.9	20.0
158847 2004 NB_{10}	16.5	X	325.20629	184.25585	114.08345	6.08059	0.1755326	0.28476914	2.2880952	21	5 13.4	18.8
158848 2004 NM_{15}	16.7	X	202.03828	194.71474	146.92892	3.96203	0.2518182	0.26881172	2.3777741	21	2 22.0	20.8
158849 2004 NH_{17}	16.4	X	243.42892	230.68584	143.96902	6.93238	0.2270770	0.27917334	2.3185693	21	5 8.9	20.1
158850 2004 NU_{21}	16.4	X	285.93427	159.72187	129.41164	4.74476	0.1417263	0.27566092	2.3382230	21	3 9.9	19.5
158851 2004 NV_{23}	16.0	X	64.99312	142.66504	235.51160	5.84318	0.1873692	0.25013816	2.4946871	21	—	—
158852 2004 NR_{25}	16.9	X	154.04631	130.74080	223.69083	3.17661	0.1514694	0.26447587	2.4036912	21	1 18.9	20.2
158853 2004 NJ_{32}	16.7	X	279.77781	188.97573	154.19459	8.25670	0.3120571	0.27805936	2.3247577	21	4 24.2	20.4
158854 2004 ON_{2}	16.6	X	156.08802	131.46838	235.86719	1.96961	0.2106640	0.26502565	2.4003659	21	2 12.3	20.3
158855 2004 OM_{3}	16.7	X	195.78714	242.32356	120.94169	2.23063	0.1975839	0.27024393	2.3693656	21	3 14.7	20.6
158856 2004 OG_{4}	16.8	X	341.77463	182.34159	60.51511	5.59354	0.1215024	0.28108992	2.3080181	21	3 28.8	19.1
158857 2004 OD_{7}	16.6	X	128.95152	257.10712	96.49189	3.53347	0.1916107	0.25942694	2.4347778	21	—	—
158858 2004 PT_{1}	16.8	X	48.42812	185.36890	107.17380	5.56740	0.1774215	0.29690368	2.2253193	21	10 31.9	19.5
158859 2004 PL_{3}	16.8	X	289.58408	182.06409	117.58919	6.89002	0.1238410	0.27806860	2.3247063	21	4 1.8	19.9
158860 2004 PY_{7}	16.8	X	50.97850	62.32895	176.33703	5.96263	0.1360903	0.28812869	2.2702746	21	8 4.4	19.1
158861 2004 PC_{8}	16.5	X	296.68289	303.32324	318.24719	4.80530	0.1184431	0.27276124	2.3547652	21	2 15.9	19.4
158862 2004 PK_{8}	16.7	X	172.11891	309.98627	307.65050	0.59874	0.1424275	0.25225420	2.4807164	21	—	—
158863 2004 PV_{9}	16.7	X	129.76296	97.80710	199.09791	1.13034	0.2120591	0.25207378	2.4818999	21	—	—
158864 2004 PE_{12}	16.7	X	222.83719	228.73487	131.96552	7.00794	0.1315124	0.27460504	2.3442129	21	4 7.4	20.3
158865 2004 PY_{13}	16.4	X	164.65152	204.82623	106.87349	3.22369	0.1086342	0.25811276	2.4430352	21	—	—
158866 2004 PU_{15}	16.7	X	195.43294	211.14664	118.44994	4.07549	0.2024151	0.26449522	2.4035740	21	2 1.6	20.6
158867 2004 PV_{15}	16.2	X	240.45353	203.71256	136.23182	7.27054	0.1391746	0.27321490	2.3521578	21	3 28.8	19.7
158868 2004 PU_{17}	17.2	X	302.37088	232.90464	122.13019	3.55357	0.1852785	0.28588469	2.2821392	21	6 26.2	19.3
158869 2004 PB_{19}	16.4	X	192.10721	251.22206	86.03022	9.59773	0.2695174	0.26465768	2.4025903	21	2 13.1	20.7
158870 2004 PV_{19}	16.9	X	220.35273	236.45888	110.92878	3.11273	0.2469479	0.26940258	2.3742961	21	3 15.7	21.1
158871 2004 PW_{19}	16.5	X	195.98663	245.64253	90.25272	3.36257	0.2515866	0.26388848	2.4072568	21	2 12.1	20.7
158872 2004 PN_{21}	16.0	X	78.08426	244.19360	143.28640	9.13272	0.0685228	0.25299953	2.4758419	21	—	—
158873 2004 PQ_{22}	17.0	X	202.65429	196.13806	174.63521	2.98465	0.2563054	0.27145826	2.3622943	21	3 29.5	21.0
158874 2004 PP_{27}	16.8	X	214.94490	287.83375	72.71690	4.78850	0.2272583	0.27270498	2.3550891	21	3 28.5	20.8
158875 2004 PL_{28}	17.3	X	224.06909	163.11036	197.07969	0.89785	0.1955118	0.27344795	2.3508212	21	4 2.8	21.1
158876 2004 PE_{30}	17.2	X	344.48232	99.97922	166.93863	2.65061	0.1594363	0.28182544	2.3040006	21	5 2.8	19.2
158877 2004 PA_{31}	17.4	X	213.19018	179.12712	136.53223	2.16324	0.2013047	0.26713008	2.3877427	21	1 29.8	21.3
158878 2004 PM_{31}	17.0	X	115.19106	21.56950	342.58955	0.61363	0.1909749	0.25639661	2.4539245	21	—	—
158879 2004 PC_{44}	17.1	X	189.35314	133.10556	197.43791	2.85310	0.1433249	0.26584687	2.3954201	21	1 24.2	20.8
158880 2004 PE_{45}	16.6	X	222.69553	170.92089	102.94378	4.05588	0.1485927	0.26219203	2.4176294	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
158881 2004 PG_{50}	17.2	X	216.61886	317.73899	36.28929	2.94180	0.2439831	0.27138110	2.3627421	21	3 20.3	21.2
158882 2004 PY_{50}	17.1	X	334.06171	201.45571	105.34073	4.01717	0.1554376	0.28528477	2.2853374	21	6 15.5	18.8
158883 2004 PD_{52}	16.2	X	238.27947	183.75226	104.19825	3.80139	0.1627877	0.26705790	2.3881729	21	1 18.1	19.8
158884 2004 PZ_{53}	16.6	X	205.52389	287.49446	73.13060	3.26863	0.2096823	0.27093177	2.3653537	21	3 20.5	20.5
158885 2004 PO_{61}	16.6	X	320.12791	257.42602	73.26451	3.35035	0.2535557	0.28429150	2.2906574	21	6 7.6	18.3
158886 2004 PW_{67}	16.4	X	154.38440	185.98559	193.47946	4.61330	0.1843627	0.26491556	2.4010308	21	2 22.8	20.1
158887 2004 PK_{68}	16.9	X	286.93186	245.37646	34.97611	1.84220	0.1285531	0.27333119	2.3514906	21	2 28.8	20.0
158888 2004 PS_{71}	17.0	X	217.49173	313.49033	354.53205	1.35298	0.1777096	0.26732067	2.3866076	21	1 24.3	20.9
158889 2004 PE_{78}	17.0	X	317.22606	130.02718	196.64692	3.68513	0.2471605	0.28504998	2.2865921	21	5 28.1	19.0
158890 2004 PB_{80}	16.8	X	5.85873	338.72870	275.32963	4.35492	0.1497267	0.28242442	2.3007418	21	5 28.9	18.5
158891 2004 PZ_{82}	16.5	X	118.84563	219.14965	151.57389	6.68617	0.1596229	0.25636764	2.4541094	21	—	—
158892 2004 PT_{83}	15.9	X	229.71275	219.77979	169.13310	5.45478	0.1253260	0.21878277	2.7276835	21	5 23.2	20.1
158893 2004 PW_{83}	16.5	X	223.51116	172.94238	147.00030	6.99821	0.1398301	0.26659321	2.3909472	21	2 12.9	20.2
158894 2004 PT_{84}	16.7	X	289.08605	149.19921	157.48617	6.51478	0.1770508	0.27476775	2.3432873	21	4 1.8	19.8
158895 2004 PD_{85}	16.7	X	263.91641	190.19708	138.13012	3.02134	0.2256291	0.27347862	2.3506455	21	3 28.5	20.2
158896 2004 PO_{85}	16.9	X	186.46138	246.58532	102.37841	2.37895	0.1970107	0.26296583	2.4128843	21	2 17.8	20.7
158897 2004 PF_{91}	15.3	X	207.67000	352.71428	35.23688	14.37600	0.2378439	0.21080342	2.7960887	21	4 26.4	20.0
158898 2004 PX_{100}	17.1	X	179.64996	130.16527	220.39689	1.42885	0.2567087	0.26388336	2.4072880	21	2 15.7	21.0
158899 Malloryvale	16.5	X	279.36705	132.61060	165.68206	3.76485	0.1451073	0.27194090	2.3594984	21	3 13.2	19.8
158900 2004 QT_{7}	15.7	X	282.27480	190.25541	205.77750	14.73293	0.1066956	0.22429165	2.6828351	21	8 1.4	19.6
158901 2004 QW_{8}	15.4	X	312.90298	16.26156	35.03983	18.27777	0.2024693	0.23637315	2.5906214	21	10 12.5	17.9
158902 2004 QW_{18}	16.8	X	125.91289	252.93109	82.29750	2.44433	0.1898066	0.25360028	2.4719304	21	—	—
158903 2004 QL_{21}	16.3	X	60.47589	172.13335	154.22721	3.04420	0.0425080	0.24248349	2.5469159	21	11 30.4	19.7
158904 2004 RN_{3}	17.0	X	47.20935	240.89499	83.73498	4.24675	0.2062373	0.29984202	2.2107572	21	12 15.1	19.7
158905 2004 RD_{4}	16.4	X	293.95071	209.95698	94.38695	8.07604	0.1235180	0.27762924	2.3271582	21	4 14.9	19.5
158906 2004 RS_{4}	16.1	X	220.09373	281.61392	57.66144	7.06803	0.1391201	0.26888766	2.3773263	21	3 9.4	19.8
158907 2004 RW_{4}	16.6	X	192.29247	277.81933	69.72382	7.38402	0.1464221	0.26539076	2.3981639	21	2 21.5	20.4
158908 2004 RA_{5}	16.4	X	271.20814	281.16576	36.53939	7.45084	0.1326108	0.27455008	2.3445257	21	4 1.6	19.6
158909 2004 RB_{14}	16.8	X	157.53186	82.68635	263.28527	0.95639	0.2087918	0.26037928	2.4288373	21	1 19.5	20.4
158910 2004 RY_{17}	16.6	X	300.59327	194.79782	289.84227	1.13780	0.0206827	0.24739402	2.5131008	21	—	—
158911 2004 RU_{20}	17.4	X	262.88318	51.19435	245.62585	1.15126	0.1693754	0.27137053	2.3628034	21	2 19.0	20.9
158912 2004 RY_{21}	15.6	X	170.06503	281.47877	164.47564	12.34464	0.1422312	0.21736302	2.7395482	21	6 5.7	20.2
158913 Kreider	15.0	X	4.84772	221.09845	190.60823	17.09692	0.2123834	0.18002576	3.1063206	21	—	—
158914 2004 RV_{26}	16.2	X	308.07907	338.45135	11.35687	3.65305	0.0987533	0.22695737	2.6617863	21	7 13.5	19.5
158915 2004 RX_{27}	15.7	X	325.78182	290.45248	134.43389	1.90726	0.1526139	0.18109117	3.0941251	21	11 13.6	19.1
158916 2004 RR_{32}	17.1	X	258.13390	249.58489	88.09261	3.45648	0.2240990	0.27586511	2.3370690	21	4 4.6	20.8
158917 2004 RO_{34}	17.2	X	189.93066	269.20661	80.02858	2.65461	0.1994385	0.26553159	2.3973158	21	2 21.4	21.1
158918 2004 RX_{35}	15.3	X	173.57336	295.52540	95.73500	4.74266	0.1043278	0.20984784	2.8045706	21	4 1.6	19.6
158919 2004 RM_{36}	16.2	X	339.90937	256.67541	10.50241	8.45254	0.1376169	0.28003970	2.3137849	21	4 24.0	18.5
158920 2004 RM_{43}	16.4	X	305.00201	57.23453	191.97944	5.32106	0.1722401	0.27201288	2.3590822	21	2 1.4	19.7
158921 2004 RX_{43}	17.3	X	223.94065	351.72515	323.65419	1.27474	0.1713545	0.26746134	2.3857708	21	2 7.5	21.0
158922 2004 RL_{45}	16.5	X	308.90155	269.50187	189.51389	3.88421	0.0412455	0.24376959	2.5379498	21	12 20.0	19.7
158923 2004 RN_{48}	16.7	X	60.48098	293.54941	52.81290	2.51163	0.1014987	0.24414924	2.5353182	21	—	—
158924 2004 RJ_{50}	16.4	X	260.10450	134.72343	157.34613	5.24393	0.1288218	0.26919672	2.3755064	21	2 13.8	20.0
158925 2004 RG_{55}	17.0	X	232.35545	261.85766	54.38006	2.10403	0.1927372	0.26810271	2.3819643	21	2 16.2	20.8
158926 2004 RX_{55}	16.8	X	169.11821	266.76201	101.68114	3.27774	0.1942857	0.26356415	2.4092313	21	2 26.7	20.5
158927 2004 RR_{58}	16.7	X	260.91633	200.00621	112.82102	3.50094	0.2265955	0.27261890	2.3555848	21	3 6.7	20.6
158928 2004 RJ_{65}	15.2	X	64.15150	154.61423	168.35541	16.01761	0.0800818	0.18157853	3.0885861	21	11 27.3	19.9
158929 2004 RW_{65}	16.8	X	253.43990	120.05291	177.02126	2.78205	0.1938333	0.26905675	2.3763302	21	2 9.3	20.6
158930 2004 RY_{66}	16.6	X	182.09789	281.98781	50.20044	2.43798	0.2026278	0.26152507	2.4217380	21	1 25.3	20.6
158931 2004 RB_{67}	17.0	X	236.88801	260.04982	42.10865	2.44940	0.2061996	0.26703354	2.3883181	21	2 2.8	21.0
158932 2004 RE_{72}	17.0	X	314.25335	285.27321	344.96587	2.08260	0.1457135	0.27505497	2.3416557	21	3 18.4	19.6
158933 2004 RM_{72}	15.7	X	101.58065	29.22410	340.92496	1.30249	0.0737540	0.19452334	2.9499969	21	—	—
158934 2004 RV_{72}	16.9	X	171.79034	310.80910	36.81946	1.93769	0.1901438	0.26145739	2.4221560	21	2 2.9	20.7
158935 2004 RC_{73}	16.6	X	342.92085	319.08879	18.90952	2.76310	0.1952178	0.22959694	2.6413462	21	8 23.3	18.9
158936 2004 RA_{76}	16.1	X	251.66201	273.35040	33.99370	7.35975	0.1244130	0.26856288	2.3792426	21	2 28.8	19.6
158937 2004 RR_{76}	16.9	X	291.08114	156.75975	143.17749	2.66752	0.2241755	0.27523156	2.3406541	21	3 18.9	20.0
158938 2004 RY_{77}	16.1	X	186.88920	304.11865	33.57318	9.77547	0.1397538	0.26120076	2.4237422	21	2 4.9	20.0
158939 2004 RO_{78}	16.0	X	288.71555	341.91320	55.57653	4.88627	0.0857330	0.22665372	2.6641631	21	8 23.6	19.4
158940 2004 RN_{79}	16.1	X	209.11262	310.51758	66.13096	1.44092	0.0881442	0.21045746	2.7991521	21	4 17.7	20.2
158941 2004 RX_{88}	17.1	X	304.44914	126.66323	222.78981	6.28087	0.2101767	0.28573309	2.2829463	21	6 16.4	19.4
158942 2004 RD_{90}	16.4	X	251.06839	15.41002	238.54245	4.39919	0.0871760	0.26312880	2.4118879	21	—	—
158943 2004 RH_{91}	16.5	X	193.80471	152.66048	220.95183	6.24977	0.1243792	0.27061766	2.3671837	21	3 21.1	20.1
158944 2004 RO_{94}	16.2	X	188.12002	151.61208	216.94715	6.28465	0.1674112	0.26791540	2.3830744	21	3 10.7	20.0
158945 2004 RO_{105}	15.2	X	338.52219	210.43215	194.75228	16.72076	0.1946638	0.17670099	3.1451647	21	11 11.2	18.7
158946 2004 RG_{106}	16.4	X	335.92584	173.08700	203.17477	3.92285	0.2272765	0.23173830	2.6250496	21	10 4.6	18.2
158947 2004 RT_{107}	14.8	X	78.17725	81.90026	185.34478	9.50504	0.0623012	0.17434705	3.1734110	21	10 1.3	19.3
158948 2004 RH_{109}	16.8	X	240.19174	133.61086	161.09919	2.10771	0.2124350	0.26713751	2.3876984	21	1 26.1	20.6
158949 2004 RL_{127}	16.7	X	185.85583	7.61456	182.49016	5.07454	0.1422826	0.24040685	2.5615617	21	10 30.7	20.7
158950 2004 RS_{136}	15.7	X	269.55188	341.17490	40.03361	6.87864	0.0501853	0.22060742	2.7126221	21	7 8.7	19.4
158951 2004 RB_{141}	16.2	X	228.62973	259.90446	62.69469	5.56565	0.1405817	0.26728197	2.3868380	21	2 23.8	20.0
158952 2004 RG_{148}	16.2	X	238.22006	218.93264	137.45360	5.01811	0.0852584	0.21465367	2.7625523	21	4 25.2	20.4
158953 2004 RX_{150}	15.6	X	210.39781	225.91608	166.32708	9.11047	0.2063376	0.21311084	2.7758693	21	5 6.9	20.4
158954 2004 RE_{151}	16.5	X	243.10755	193.86309	146.45601	6.00457	0.2346021	0.27115876	2.3640335	21	3 25.5	20.5
158955 2004 RO_{152}	16.1	X	271.03486	142.88520	218.81037	8.01943	0.2033652	0.28073919	2.3099399	21	5 20.2	19.2
158956 2004 RA_{157}	16.3	X	247.50388	119.21038	241.90636	1.76599	0.0918229	0.21690915	2.7433684	21	5 8.7	20.2
158957 2004 RN_{167}	15.7	X	164.49414	152.76716	31.80719	8.70713	0.1054390	0.23469177	2.6029799	21	10 4.4	19.6
158958 2004 RM_{178}	16.7	X	97.58625	328.78264	273.51291	5.35147	0.1407392	0.29336502	2.2431785	21	10 11.9	20.0
158959 2004 RW_{197}	16.1	X	295.87122	147.26510	212.80263	2.94822	0.1098618	0.22369362	2.6876145	21	7 6.0	19.4
158960 2004 RW_{200}	15.5	X	324.43610	124.66762	244.97150	6.97548	0.1854008	0.22565360	2.6720293	21	8 25.4	18.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
158961 2004 RX_{201}	16.7	X	342.48845	64.65171	227.18371	7.86312	0.1876199	0.28445678	2.2897700	21	6 4.8	18.5
158962 2004 RA_{211}	14.6	X	84.87881	340.73224	320.03007	17.10529	0.1161958	0.18255895	3.0775182	21	11 22.3	19.5
158963 2004 RH_{216}	14.7	X	259.59322	263.78616	209.94947	25.13197	0.2801055	0.17237769	3.1975352	21	9 13.9	19.8
158964 2004 RR_{226}	16.4	X	255.41111	294.53984	20.05243	2.29975	0.2121042	0.26991980	2.3712621	21	3 4.7	20.2
158965 2004 RF_{231}	16.1	X	72.27542	248.61012	10.65336	1.87661	0.1545206	0.22985040	2.6394040	21	10 2.7	19.8
158966 2004 RE_{232}	17.1	X	78.88192	256.16729	64.82073	0.37201	0.0673495	0.23994073	2.5648781	21	12 18.3	20.6
158967 2004 RG_{232}	16.1	X	291.06946	174.27982	194.48178	0.43166	0.1492339	0.22295562	2.6935421	21	7 5.0	19.3
158968 2004 RA_{236}	15.6	X	65.76387	214.27318	200.84572	9.86048	0.1176734	0.19292951	2.9662217	21	—	—
158969 2004 RQ_{254}	15.8	X	232.57365	250.68588	45.55551	8.38157	0.1949863	0.26612349	2.3937598	21	1 24.9	19.9
158970 2004 RW_{256}	16.0	X	216.49361	129.21866	334.82295	9.05100	0.0468784	0.23168550	2.6254483	21	8 21.3	19.6
158971 2004 RR_{272}	16.3	X	170.03751	123.26080	117.79452	2.01201	0.0403504	0.24523187	2.5278508	21	12 22.5	19.6
158972 2004 RW_{277}	17.0	X	218.40492	226.10533	120.58557	7.20026	0.1316712	0.26966503	2.3727554	21	3 16.2	20.7
158973 2004 RP_{289}	15.9	X	259.87570	358.07796	35.28355	10.92324	0.2385635	0.22083364	2.7107693	21	6 15.2	20.2
158974 2004 RF_{290}	16.4	X	359.41333	349.14795	40.93647	6.85151	0.0543057	0.23977761	2.5660412	21	11 30.5	19.6
158975 2004 RT_{290}	15.9	X	201.69126	292.00909	136.62253	10.08377	0.1492100	0.22001530	2.7174869	21	6 13.3	20.4
158976 2004 RL_{292}	15.9	X	184.52067	141.78162	263.09492	3.22283	0.0730674	0.21098024	2.7945262	21	4 25.4	20.2
158977 2004 RE_{294}	17.0	X	133.70233	88.71191	191.31139	8.29081	0.1278072	0.24620936	2.5211557	21	12 29.3	21.1
158978 2004 RW_{300}	16.7	X	166.88041	58.54296	12.98018	3.20237	0.0740244	0.21423672	2.7661354	21	5 9.8	20.7
158979 2004 RM_{301}	17.2	X	341.91676	230.15106	36.91089	1.60052	0.2139063	0.27981524	2.3150221	21	4 18.0	18.9
158980 2004 RG_{306}	15.5	X	274.58803	201.68787	181.36117	15.16528	0.0977519	0.22165150	2.7040970	21	7 8.1	19.5
158981 2004 RD_{307}	15.1	X	329.02493	284.16862	83.17956	13.76918	0.2862617	0.22556528	2.6727267	21	9 2.7	17.4
158982 2004 RT_{311}	15.9	X	350.62527	239.09321	165.40970	5.12679	0.1529786	0.17872815	3.1213376	21	12 1.2	19.6
158983 2004 RX_{311}	15.0	X	59.41644	138.31855	143.38930	10.11917	0.0474198	0.17669298	3.1452598	21	9 26.6	19.4
158984 2004 RN_{323}	16.7	X	183.89277	95.91755	222.12166	4.00446	0.1351566	0.25894086	2.4378239	21	1 4.3	20.4
158985 2004 RB_{330}	17.4	X	37.40844	70.55603	234.01867	5.10909	0.2567721	0.29524161	2.2336631	21	11 12.5	19.7
158986 2004 RY_{330}	16.6	X	76.18815	95.80539	58.81286	1.20017	0.0118113	0.21379088	2.7699798	21	4 27.9	20.1
158987 2004 RC_{342}	15.6	X	223.18213	210.04356	190.88669	12.57485	0.1171928	0.21481732	2.7611491	21	6 1.4	20.0
158988 2004 SP_{2}	14.6	X	219.86589	86.51291	30.37474	23.33418	0.0897619	0.16781870	3.2551860	21	9 14.2	19.8
158989 2004 SJ_{10}	16.2	X	288.10267	163.56157	101.11164	7.36288	0.0740291	0.27096620	2.3651533	21	2 18.5	19.3
158990 2004 SJ_{15}	16.2	X	54.99727	280.03976	42.94988	9.87504	0.1139971	0.23887116	2.5725287	21	11 26.9	19.7
158991 2004 SK_{15}	16.7	X	313.15567	237.48779	82.78471	5.72272	0.2633357	0.28215667	2.3021971	21	5 9.0	19.1
158992 2004 SA_{23}	15.9	X	26.45852	226.88355	14.28953	8.97772	0.1185732	0.21800462	2.7341705	21	6 22.7	19.2
158993 2004 SK_{24}	16.0	X	37.07099	157.53329	41.73853	5.07294	0.0138368	0.21184813	2.7868887	21	5 4.4	19.8
158994 2004 SB_{29}	16.7	X	285.01881	112.19304	196.50752	2.23003	0.1689643	0.27497740	2.3420961	21	3 29.7	19.7
158995 2004 SH_{31}	15.1	X	321.92004	220.53903	186.39977	18.19129	0.1657258	0.17360231	3.1824803	21	10 11.9	18.8
158996 2004 SF_{36}	15.5	X	275.52534	270.00726	106.39776	4.49449	0.0839626	0.22064312	2.7123295	21	7 4.1	19.2
158997 2004 SZ_{37}	16.1	X	87.93843	247.60332	72.81542	5.31802	0.1234175	0.24157384	2.5533055	21	—	—
158998 2004 SC_{39}	15.8	X	245.22088	331.06073	27.48656	6.33811	0.0663906	0.21420404	2.7664168	21	5 4.8	19.9
158999 2004 SN_{40}	15.6	X	2.01623	304.77089	35.23839	14.00848	0.2019384	0.22980522	2.6397500	21	10 13.2	18.0
159000 2004 SA_{41}	16.0	X	349.32602	2.17141	1.85671	3.03225	0.2854028	0.22873674	2.6479641	21	10 24.2	17.6
159001 2004 SL_{41}	17.7	X	237.42944	243.72107	49.33329	2.77492	0.2114144	0.26351049	2.4095583	21	1 23.5	21.8
159002 2004 SJ_{42}	16.6	X	234.59457	93.84241	216.63874	5.22034	0.1221848	0.26716268	2.3875484	21	2 10.2	20.3
159003 2004 SM_{50}	16.2	X	241.12934	184.51805	195.23948	2.23375	0.1991408	0.21649110	2.7468990	21	5 16.4	20.5
159004 2004 SR_{52}	15.9	X	150.35455	309.81894	49.93607	9.11231	0.1570355	0.25892728	2.4379091	21	1 26.8	19.5
159005 2004 SA_{54}	16.2	X	300.71142	283.90543	5.86448	13.63543	0.2129575	0.27487223	2.3426935	21	3 18.8	19.1
159006 2004 SH_{54}	16.3	X	332.91696	258.75714	48.89121	7.00961	0.2692364	0.28203753	2.3028454	21	5 24.4	18.0
159007 2004 TL_{1}	14.9	X	339.50914	302.88368	103.61824	8.18762	0.2423069	0.17425909	3.1744788	21	11 15.7	18.0
159008 2004 TC_{5}	15.9	X	352.87970	276.04911	9.21774	2.03796	0.1630175	0.21901728	2.7257360	21	6 23.2	18.6
159009 2004 TT_{7}	15.5	X	207.45385	338.80209	31.37509	11.47738	0.2471028	0.21159323	2.7891265	21	4 7.0	20.4
159010 2004 TX_{7}	16.0	X	13.74646	317.20854	33.40039	13.07696	0.1142308	0.23437782	2.6053038	21	11 4.5	18.9
159011 Radomyshl	15.2	X	116.81173	355.10992	216.47239	17.10465	0.1182135	0.22904192	2.6456115	21	9 12.4	19.5
159012 2004 TT_{19}	16.1	X	70.14380	262.99517	54.40575	11.34037	0.1885949	0.23943223	2.5685083	21	12 16.9	20.0
159013 Kyleturner	15.8	X	143.79302	13.40285	76.02324	8.84414	0.0719601	0.20889595	2.8130840	21	5 9.4	19.9
159014 2004 TK_{24}	16.0	X	233.62215	267.02108	230.51772	2.69760	0.1325283	0.17521770	3.1628898	21	10 6.9	20.7
159015 2004 TV_{27}	16.4	X	48.31630	2.20186	183.96426	3.18289	0.0292038	0.21301893	2.7766677	21	5 4.5	20.1
159016 2004 TQ_{28}	16.6	X	89.51758	29.77495	37.73821	2.75614	0.0488250	0.19953056	2.9004347	21	1 31.9	20.5
159017 2004 TY_{32}	14.7	X	279.89548	255.53886	206.02483	24.90359	0.2951474	0.17182942	3.2043334	21	9 21.4	19.4
159018 2004 TZ_{35}	16.2	X	252.64561	351.84327	20.26304	6.26761	0.0642903	0.21659724	2.7460015	21	5 31.5	20.1
159019 2004 TF_{37}	16.5	X	26.30791	297.97146	216.82900	0.68170	0.0737809	0.20162115	2.8803504	21	2 22.9	20.1
159020 2004 TN_{37}	16.8	X	285.72665	63.48103	206.35662	1.97321	0.2235797	0.26795579	2.3828349	21	2 2.8	20.5
159021 2004 TN_{40}	15.6	X	28.67565	23.85113	12.06860	2.40733	0.0940510	0.18386465	3.0629310	21	—	—
159022 2004 TP_{42}	16.3	X	155.08900	345.68860	279.74211	2.42497	0.2063197	0.24365963	2.5387133	21	12 29.7	20.6
159023 2004 TN_{46}	15.9	X	161.94636	158.41296	231.97855	1.11411	0.0766644	0.20335264	2.8639769	21	3 15.2	20.2
159024 2004 TA_{47}	15.3	X	244.49676	156.73766	29.22384	5.79488	0.1024957	0.18231794	3.0802297	21	12 21.4	19.8
159025 2004 TQ_{48}	16.5	X	107.41164	210.61324	45.69327	3.46689	0.1432529	0.23369297	2.6103913	21	11 5.1	20.4
159026 2004 TA_{54}	16.1	X	140.66227	222.80738	215.88648	3.41234	0.0582158	0.20590776	2.8402348	21	4 18.7	20.0
159027 2004 TH_{54}	15.7	X	41.98417	345.18809	69.29253	2.09117	0.0943012	0.18595422	3.0399424	21	—	—
159028 2004 TP_{55}	15.9	X	110.74266	240.69172	73.06530	2.17239	0.0634429	0.18209093	3.0827892	21	—	—
159029 2004 TR_{55}	15.2	X	66.85787	259.49361	41.35215	14.93981	0.1457861	0.23358254	2.6112140	21	11 16.0	18.9
159030 2004 TS_{60}	15.7	X	131.64564	34.59078	59.57369	2.83000	0.0410232	0.21081250	2.7960085	21	4 25.9	19.7
159031 2004 TW_{66}	16.1	X	198.11305	235.45548	59.72793	7.57311	0.2422432	0.25724426	2.4485309	21	—	—
159032 2004 TK_{67}	15.3	X	150.19777	309.63468	68.94872	13.72892	0.1205081	0.20003090	2.8955962	21	2 27.9	19.9
159033 2004 TP_{68}	16.1	X	197.52195	230.75317	68.28014	8.92089	0.1109155	0.25641188	2.4538271	21	—	—
159034 2004 TW_{68}	16.7	X	281.90577	229.75771	83.18405	3.97977	0.1853978	0.27415063	2.3468025	21	4 1.2	20.0
159035 2004 TU_{74}	16.3	X	85.73954	125.04626	210.83392	6.56418	0.2394370	0.24384206	2.5374470	21	—	—
159036 2004 TO_{76}	15.9	X	109.66380	229.42376	183.86124	1.88114	0.0824694	0.20034630	2.8925564	21	2 12.2	19.9
159037 2004 TH_{77}	15.5	X	350.66851	142.14783	219.70261	12.00350	0.1579629	0.22995971	2.6385675	21	10 13.0	18.1
159038 2004 TD_{85}	16.6	X	316.57920	129.56051	211.63962	1.40731	0.0837834	0.22369775	2.6875815	21	7 15.7	19.7
159039 2004 TO_{93}	16.1	X	250.48821	95.93548	8.58582	0.71221	0.1265683	0.16949516	3.2336860	21	9 16.5	20.7
159040 2004 TB_{94}	16.6	X	284.65028	312.16313	22.22272	2.21430	0.0823025	0.21637725	2.7478624	21	5 20.5	20.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
159041 2004 TO_{96}	16.6	X	171.55305	69.02361	188.82415	3.46247	0.1509895	0.24538785	2.5267795	21	—	—
159042 2004 TU_{97}	16.3	X	0.56454	119.73624	131.61174	1.28500	0.0143438	0.21408002	2.7674851	21	5 24.2	20.0
159043 2004 TW_{97}	15.7	X	273.10129	224.17960	51.25884	2.76096	0.0201303	0.20373505	2.8603920	21	3 2.9	19.7
159044 2004 TG_{112}	15.7	X	7.72246	286.59571	139.50582	1.70245	0.1174239	0.18353037	3.0666492	21	—	—
159045 2004 TU_{115}	14.7	X	238.10869	38.69851	88.72313	7.28465	0.1459271	0.17172156	3.2056751	21	10 2.2	19.6
159046 2004 TZ_{117}	15.9	X	301.11813	257.46350	119.08397	3.26769	0.1535676	0.22431527	2.6826468	21	7 31.3	19.0
159047 2004 TT_{120}	15.5	X	36.39760	269.15863	41.89381	11.28776	0.1199886	0.23035127	2.6355766	21	10 20.0	18.7
159048 2004 TY_{123}	17.0	X	154.52454	182.23662	134.85220	4.45187	0.1574694	0.25494651	2.4632208	21	—	—
159049 2004 TH_{126}	15.1	X	348.83334	24.14218	28.74355	11.25141	0.0813877	0.18055309	3.1002694	21	12 2.3	19.1
159050 2004 TO_{126}	16.0	X	258.06259	325.60354	68.89681	6.26865	0.1715286	0.22140856	2.7060747	21	6 23.8	20.1
159051 2004 TB_{127}	17.1	X	302.56690	170.19421	127.94196	4.36315	0.2231341	0.27629533	2.3346423	21	3 31.3	20.1
159052 2004 TR_{130}	16.3	X	87.09664	219.58754	105.03120	3.18663	0.0605086	0.24196794	2.5505323	21	—	—
159053 2004 TQ_{133}	15.6	X	28.58849	319.19819	37.39753	8.21996	0.2046779	0.23562637	2.5960923	21	12 19.7	18.9
159054 2004 TW_{139}	15.2	X	358.48994	209.57951	233.76537	9.49696	0.1855061	0.18259057	3.0771629	21	—	—
159055 2004 TU_{143}	15.8	X	254.91963	111.11052	222.19696	4.26681	0.0454075	0.20986354	2.8044308	21	4 17.1	19.6
159056 2004 TG_{144}	15.5	X	252.99447	51.48933	80.89406	2.18631	0.0520996	0.17557913	3.1585478	21	11 3.8	19.8
159057 2004 TL_{144}	15.6	X	155.10141	2.23247	49.23360	3.76677	0.0823335	0.20529932	2.8458437	21	4 4.7	19.9
159058 2004 TW_{144}	14.9	X	267.26329	228.90308	225.73495	13.15159	0.0978589	0.16910979	3.2385968	21	9 24.6	19.6
159059 2004 TC_{146}	15.7	X	24.97833	75.65637	15.91931	3.39520	0.0564417	0.19092673	2.9869289	21	—	—
159060 2004 TQ_{148}	15.6	X	136.77042	246.33795	315.76488	2.33707	0.1245242	0.17029734	3.2235232	21	9 20.7	20.7
159061 2004 TM_{151}	16.3	X	0.78130	120.16768	326.91333	0.65833	0.1773030	0.18551702	3.0447166	21	—	—
159062 2004 TO_{152}	16.0	X	55.51866	142.22164	358.57188	1.36562	0.0755608	0.20464187	2.8519357	21	3 20.4	19.5
159063 2004 TJ_{168}	15.8	X	261.72308	334.12302	44.69043	5.36350	0.0312467	0.21917761	2.7244066	21	6 27.0	19.5
159064 2004 TA_{171}	15.7	X	231.93470	321.23033	72.52412	9.01753	0.0636145	0.21568164	2.7537674	21	6 4.9	19.8
159065 2004 TF_{171}	15.1	X	104.52337	236.86925	155.10911	10.39412	0.1005315	0.19205936	2.9751742	21	1 14.4	19.3
159066 2004 TN_{177}	16.2	X	5.46736	330.23877	30.16003	2.84264	0.1998871	0.23358995	2.6111588	21	11 16.2	18.7
159067 2004 TH_{191}	17.2	X	229.52332	138.70511	147.85392	1.22249	0.1619768	0.26135330	2.4227990	21	1 9.2	21.0
159068 2004 TQ_{192}	17.1	X	218.09246	257.58233	55.06082	1.97167	0.1922650	0.26369028	2.4084630	21	1 31.3	21.0
159069 2004 TD_{193}	16.5	X	90.68417	169.10617	45.43253	2.61329	0.0295812	0.22358778	2.6884627	21	8 10.2	20.1
159070 2004 TC_{197}	15.7	X	336.00157	75.39174	212.06325	8.19703	0.0370253	0.21588184	2.7520647	21	6 6.1	19.3
159071 2004 TU_{197}	16.4	X	30.08561	33.98308	203.56743	3.69229	0.0357135	0.21637849	2.7478520	21	6 16.9	19.9
159072 2004 TM_{202}	16.2	X	252.66615	328.67644	16.26850	3.94132	0.1178547	0.20993073	2.8038323	21	4 21.3	20.4
159073 2004 TP_{202}	15.6	X	227.45668	150.64834	238.38013	8.64835	0.1978765	0.21259149	2.7803884	21	5 15.3	20.3
159074 2004 TX_{204}	15.6	X	343.22879	320.49441	39.59753	4.10132	0.2124497	0.22830331	2.6513144	21	9 28.9	17.7
159075 2004 TO_{205}	15.3	X	291.25558	272.10416	209.30641	1.42009	0.0641677	0.17685470	3.1433421	21	12 7.3	19.5
159076 2004 TT_{205}	15.2	X	333.17610	54.62895	47.65302	10.25939	0.0630474	0.18054630	3.1003471	21	—	—
159077 2004 TU_{206}	15.5	X	309.79089	110.17431	67.16750	3.51938	0.0501871	0.18911144	3.0060129	21	—	—
159078 2004 TM_{207}	15.3	X	37.59554	4.05962	51.27028	6.27079	0.1629498	0.18444967	3.0564511	21	—	—
159079 2004 TC_{210}	16.3	X	38.06620	261.06578	318.14803	1.55398	0.0191998	0.21402645	2.7679469	21	6 1.7	20.0
159080 2004 TG_{223}	15.9	X	15.76422	197.99847	169.70130	15.99691	0.1906153	0.23387207	2.6090584	21	12 14.7	19.3
159081 2004 TN_{224}	16.5	X	181.53103	181.03358	216.34289	3.74508	0.0756140	0.20988451	2.8042440	21	4 13.5	20.7
159082 2004 TU_{237}	15.0	X	266.83346	65.88342	36.63933	14.16086	0.1619038	0.17135575	3.2102358	21	10 3.3	19.6
159083 2004 TY_{242}	15.4	X	40.46251	209.57219	105.59279	16.66810	0.1084749	0.23370780	2.6102809	21	11 4.9	19.1
159084 2004 TK_{250}	15.8	X	66.17816	46.93845	359.64125	2.17242	0.1625427	0.18846313	3.0129028	21	—	—
159085 2004 TO_{256}	15.4	X	264.29238	246.93184	215.93445	11.78084	0.2154956	0.17019031	3.2248746	21	9 15.1	20.2
159086 2004 TG_{275}	15.6	X	308.66303	290.04914	38.90001	6.45732	0.0918637	0.21726598	2.7403639	21	6 14.7	19.2
159087 2004 TY_{275}	16.4	X	125.47495	230.42214	46.14193	1.86786	0.1678971	0.23845275	2.5755372	21	12 17.7	20.6
159088 2004 TD_{282}	15.5	X	266.54488	290.72866	93.00641	14.16976	0.2141879	0.21904854	2.7254767	21	6 14.5	19.6
159089 2004 TO_{287}	15.6	X	71.27128	221.73762	47.81767	9.55653	0.1421133	0.22863325	2.6487631	21	10 15.6	19.3
159090 2004 TD_{288}	14.7	X	286.55462	249.19427	226.02223	5.75465	0.0903324	0.17599308	3.1535931	21	11 20.3	18.9
159091 2004 TL_{294}	15.4	X	154.13516	3.78058	40.36339	13.07993	0.0659814	0.20351833	2.8624222	21	3 28.2	19.7
159092 2004 TS_{294}	16.6	X	341.45927	169.28108	159.30783	2.29030	0.0823579	0.22278750	2.6948970	21	8 7.9	19.7
159093 2004 TB_{296}	15.2	X	262.26264	240.01626	226.73142	10.19926	0.0599606	0.17004338	3.2267321	21	10 10.5	19.9
159094 2004 TL_{303}	16.1	X	250.34205	187.96658	179.94919	2.19228	0.0862135	0.21336621	2.7736540	21	5 22.3	20.1
159095 2004 TM_{317}	15.6	X	137.53046	12.30221	229.13658	8.19871	0.1750495	0.23583225	2.5945811	21	11 16.3	19.8
159096 2004 TO_{321}	15.8	X	347.07873	314.94018	22.74623	5.16174	0.1548727	0.22485686	2.6783374	21	9 2.4	18.5
159097 2004 TE_{324}	15.7	X	330.43673	246.59681	162.30902	1.33228	0.1538524	0.17196812	3.2026102	21	10 29.7	19.4
159098 2004 TA_{333}	15.2	X	303.51759	241.30968	225.07861	5.81564	0.0968164	0.17719546	3.1393109	21	12 3.1	19.1
159099 2004 TH_{334}	16.1	X	353.85815	164.52965	62.65867	2.97394	0.0335303	0.20606137	2.8388231	21	4 13.2	19.8
159100 2004 TU_{349}	15.3	X	211.39410	349.57444	227.58372	8.68963	0.0510419	0.18075701	3.0979372	21	12 26.3	19.9
159101 2004 TP_{351}	16.2	X	76.24167	204.41860	99.19183	3.46153	0.2317286	0.23656458	2.5892237	21	12 10.9	20.3
159102 Sarahflanigan	15.3	X	347.79531	93.48855	61.30360	9.79818	0.0417253	0.19090959	2.9871077	21	1 5.2	19.5
159103 2004 TR_{366}	15.8	X	357.11908	264.97552	60.47607	5.45036	0.1004502	0.22503241	2.6769443	21	9 3.5	18.8
159104 2004 UD_{6}	15.6	X	44.53581	339.97327	62.31760	3.14114	0.1567369	0.18461323	3.0546456	21	—	—
159105 2004 UA_{11}	15.5	X	34.03030	116.34824	249.29935	3.43240	0.0899671	0.17704813	3.1410522	21	12 9.3	19.8
159106 2004 VB_{3}	15.7	X	66.84006	277.37585	182.02934	1.87974	0.0316434	0.19693241	2.9258895	21	2 8.1	19.5
159107 2004 VS_{3}	16.1	X	138.75364	287.70411	155.44018	2.06942	0.0409492	0.20628863	2.8367377	21	4 21.0	20.0
159108 2004 VA_{9}	15.5	X	85.60254	127.91058	198.51243	6.24252	0.1626620	0.23888862	2.5724034	21	—	—
159109 2004 VV_{11}	15.6	X	82.62527	328.26538	2.41376	11.07006	0.2065687	0.24058041	2.5603296	21	—	—
159110 2004 VF_{15}	16.0	X	81.95018	250.39915	99.26053	12.79596	0.2521260	0.24351003	2.5397530	21	—	—
159111 2004 VG_{15}	16.5	X	254.20275	169.05146	163.15183	10.91729	0.3047979	0.27081831	2.3660143	21	3 19.9	20.5
159112 2004 VQ_{16}	15.3	X	344.84740	319.36382	134.73177	10.49155	0.0538857	0.18100654	3.0950894	21	—	—
159113 2004 VT_{18}	16.2	X	158.65167	343.99482	28.07034	2.14334	0.1133235	0.19941183	2.9015859	21	2 22.4	20.6
159114 2004 VY_{18}	15.9	X	101.70289	158.32741	222.80124	0.96632	0.1492659	0.19076415	2.9886258	21	1 5.5	19.9
159115 2004 VJ_{19}	15.5	X	44.79013	324.80819	54.35238	6.01273	0.1524605	0.18109512	3.0940801	21	—	—
159116 2004 VV_{22}	15.3	X	359.25029	169.01388	226.48232	3.41724	0.1320076	0.17494695	3.1661523	21	11 30.8	19.2
159117 2004 VX_{23}	15.4	X	107.07006	285.92932	68.20928	2.09308	0.1909779	0.18709196	3.0276056	21	—	—
159118 2004 VA_{25}	15.0	X	27.49090	312.62973	52.90689	9.98159	0.0829198	0.17477365	3.1682449	21	11 28.4	19.3
159119 2004 VE_{31}	15.7	X	320.11807	48.90837	97.06513	3.64612	0.0448673	0.18586033	3.0409661	21	—	—
159120 2004 VM_{31}	15.2	X	321.03107	110.14158	63.07536	12.15444	0.0445211	0.19042432	2.9921804	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
159121 2004 VA_{36}	16.0	X	209.24800	46.60074	299.01363	1.06174	0.0756660	0.20281754	2.8690121	21	3 10.8	20.3
159122 2004 VE_{51}	16.0	X	38.39722	194.65433	137.62263	3.57273	0.1392275	0.23245764	2.6196313	21	11 22.2	19.3
159123 2004 VL_{53}	15.6	X	187.31775	293.50645	77.06779	3.40479	0.0560113	0.20265488	2.8705470	21	3 19.8	19.8
159124 2004 VP_{62}	14.7	X	21.87575	315.33425	98.52196	23.53030	0.0586159	0.18132620	3.0914508	21	—	—
159125 2004 VQ_{62}	16.1	X	86.38498	207.81849	142.68986	10.92040	0.2909917	0.24451131	2.5328147	21	—	—
159126 2004 VT_{64}	15.0	X	35.94708	357.83047	72.88641	11.99432	0.0796229	0.18497746	3.0506345	21	—	—
159127 2004 VW_{73}	15.2	X	72.76170	272.52060	132.19783	11.34119	0.0844987	0.18887466	3.0085247	21	—	—
159128 2004 VS_{76}	15.4	X	236.45022	85.73303	136.23764	3.48169	0.0105350	0.18601967	3.0392293	21	—	—
159129 2004 VV_{91}	15.5	X	153.28649	277.65189	105.35580	3.23556	0.0870044	0.19947962	2.9009285	21	2 27.9	19.7
159130 2004 VO_{109}	16.0	X	349.78902	50.49403	67.69604	0.57216	0.0846685	0.18671115	3.0317209	21	—	—
159131 2004 WF_{2}	15.7	X	330.76142	28.58283	251.75977	7.66899	0.1713724	0.21158809	2.7891716	21	5 1.1	18.9
159132 2004 WU_{3}	15.1	X	158.99046	354.40291	224.33796	11.34813	0.0625593	0.17143576	3.2092369	21	10 31.3	20.0
159133 2004 WG_{5}	15.6	X	272.25533	273.57273	89.45921	5.06828	0.1330916	0.21604723	2.7506600	21	6 4.9	19.6
159134 2004 XR_{2}	15.3	X	68.11236	338.30074	71.54994	4.80757	0.1696582	0.18717933	3.0266633	21	—	—
159135 2004 XL_{7}	15.6	X	172.63337	322.88436	63.19341	8.67399	0.0922418	0.20007659	2.8951553	21	3 27.5	20.1
159136 2004 XY_{8}	14.7	X	9.50022	357.49547	57.12050	25.67626	0.1601482	0.17833170	3.1259620	21	—	—
159137 2004 XK_{9}	15.5	X	74.14986	287.39639	46.64037	6.59500	0.2737559	0.23862274	2.5743139	21	—	—
159138 2004 XT_{10}	15.5	X	79.22306	307.84693	64.11944	1.79256	0.1854463	0.18413201	3.0599654	21	—	—
159139 2004 XO_{15}	14.8	X	82.02650	274.79758	60.33370	8.43199	0.2244022	0.23893490	2.5720712	21	—	—
159140 2004 XJ_{21}	15.1	X	265.06817	13.39105	89.76565	5.34508	0.0834227	0.16754762	3.2586962	21	10 10.7	19.7
159141 2004 XM_{30}	15.6	X	111.88809	323.63841	126.86384	2.55275	0.0204136	0.20147881	2.8817068	21	3 26.0	19.6
159142 2004 XQ_{33}	15.3	X	208.30895	328.51546	283.17333	0.53345	0.1214489	0.18166294	3.0876293	21	—	—
159143 2004 XY_{39}	15.4	X	53.42712	12.37919	59.28231	0.63837	0.1117829	0.18822571	3.0154358	21	—	—
159144 2004 XQ_{40}	15.6	X	37.32856	325.54707	60.03252	2.01411	0.0700617	0.17705132	3.1410144	21	—	—
159145 2004 XZ_{60}	15.7	X	32.69935	192.28842	176.71748	0.14467	0.1276953	0.17581283	3.1557482	21	12 16.5	19.8
159146 2004 XQ_{68}	15.5	X	203.08532	272.26523	20.77674	4.41500	0.0154292	0.18949952	3.0019075	21	1 2.6	19.8
159147 2004 XH_{73}	15.3	X	55.03620	116.42864	277.44335	2.39281	0.1105002	0.18327647	3.0694807	21	—	—
159148 2004 XZ_{76}	15.5	X	316.84736	211.06484	227.67562	0.77979	0.1126620	0.17322528	3.1870964	21	11 16.3	19.4
159149 2004 XH_{104}	15.7	X	199.54136	290.65163	86.18725	3.19735	0.0890706	0.20440860	2.8541050	21	4 9.6	20.0
159150 2004 XG_{105}	15.3	X	349.55695	20.76481	352.93135	5.91257	0.1555811	0.17021564	3.2245547	21	10 15.5	18.9
159151 2004 XD_{109}	15.8	X	35.03295	251.97376	88.90817	1.14479	0.1605686	0.23247885	2.6194720	21	12 1.2	19.1
159152 2004 XP_{130}	15.7	X	350.19480	183.21503	213.35695	11.86997	0.0934810	0.17227134	3.1988511	21	11 15.6	19.7
159153 2004 XP_{133}	15.9	X	69.33677	337.66202	5.42450	4.87038	0.2686995	0.24041806	2.5614821	21	—	—
159154 2004 XK_{137}	15.1	X	137.94419	266.83200	86.45884	10.01708	0.1411566	0.18610370	3.0383144	21	1 14.7	19.7
159155 2004 XP_{137}	15.3	X	17.36184	282.58440	137.79218	12.33455	0.1195038	0.18195311	3.0843458	21	—	—
159156 2004 XK_{166}	15.7	X	193.50306	157.60669	61.43300	2.89226	0.0349197	0.17532657	3.1615803	21	12 9.7	20.3
159157 2004 XM_{166}	15.9	X	129.75680	344.50424	55.22872	3.73176	0.1019096	0.19550611	2.9401026	21	2 25.2	20.1
159158 2004 XN_{177}	15.3	X	222.28549	106.17439	75.90811	5.41116	0.1120405	0.17312777	3.1882931	21	11 20.1	20.1
159159 2004 XS_{178}	15.3	X	43.38191	247.50343	103.07037	9.59490	0.2307758	0.23529044	2.5985627	21	—	—
159160 2004 XU_{178}	15.2	X	64.11253	239.01120	109.99852	12.10305	0.2160051	0.23775271	2.5805903	21	—	—
159161 2004 YW_{6}	15.0	X	229.46905	142.64605	71.48431	18.02344	0.1502440	0.18047501	3.1011635	21	12 30.7	19.7
159162 2005 AY_{64}	13.1	X	101.65831	23.40424	140.70199	4.71069	0.0723922	0.08246820	5.2273116	21	6 24.5	20.2
159163 2005 ES_{129}	13.5	X	234.74717	142.89670	237.73710	1.38367	0.0591530	0.08189302	5.2517589	21	5 28.7	20.5
159164 La Cañada	15.7	X	117.47030	101.11195	225.44604	12.26311	0.2280332	0.21541618	2.7560293	21	—	—
159165 2005 QE_{92}	16.9	X	203.92982	357.21067	167.03114	23.23934	0.0582364	0.37733111	1.8966519	21	11 19.6	19.4
159166 2005 RP_{24}	16.7	X	295.14815	28.69081	355.03482	5.65713	0.1659272	0.30077919	2.2061626	21	8 4.2	18.7
159167 2005 RP_{25}	16.1	X	223.57936	53.20644	340.87971	13.90628	0.1296563	0.22984378	2.6394547	21	5 16.6	20.4
159168 2005 SQ_{5}	16.9	X	222.24083	252.07561	199.05257	8.83687	0.0713864	0.30157215	2.2022937	21	8 7.9	19.8
159169 2005 SP_{49}	17.3	X	198.82561	22.22070	22.45046	2.93787	0.1494062	0.28797143	2.2711010	21	5 6.1	20.5
159170 2005 SR_{63}	16.5	X	103.15514	309.86642	190.74580	5.30933	0.0772129	0.28873685	2.2670855	21	5 21.6	19.2
159171 2005 SE_{73}	16.9	X	83.04924	44.61378	54.18323	4.09416	0.2094964	0.27425915	2.3461834	21	3 15.6	19.2
159172 2005 SQ_{105}	16.6	X	298.29183	180.89291	216.29209	3.28628	0.1182524	0.30210473	2.1997046	21	9 5.8	18.5
159173 2005 SB_{132}	17.1	X	148.20081	228.54183	219.54195	6.53415	0.2003569	0.28414886	2.2914239	21	5 17.7	20.5
159174 2005 SL_{179}	17.3	X	181.57054	283.99746	130.66493	2.17636	0.1931101	0.28748767	2.2736480	21	5 4.8	21.0
159175 2005 SU_{207}	16.4	X	12.13466	11.58269	53.20698	8.59237	0.1823619	0.25749498	2.4469412	21	—	—
159176 2005 SY_{213}	16.8	X	46.88362	77.18421	215.02947	20.65270	0.0584960	0.36950428	1.9233415	21	10 16.8	18.5
159177 2005 SF_{225}	16.6	X	77.73086	275.16596	158.08213	9.72045	0.2354652	0.26953689	2.3735073	21	1 27.1	18.5
159178 2005 TK_{28}	15.6	X	220.90577	41.33596	99.40907	9.90992	0.0579589	0.23371931	2.6101952	21	10 17.8	19.4
159179 2005 TN_{47}	17.1	X	221.33195	280.37941	205.12030	3.65185	0.0805822	0.30498954	2.1858117	21	9 26.9	19.7
159180 2005 TJ_{152}	16.7	X	183.09614	297.46592	109.35473	7.07918	0.0924499	0.27668853	2.3324299	21	4 26.1	20.1
159181 Berdychiv	15.5	X	243.05960	288.70600	164.65921	4.66186	0.1455639	0.17503536	3.1650860	21	8 23.0	20.3
159182 2005 UB_{27}	16.7	X	231.58307	9.39346	30.57254	5.16008	0.1595262	0.29194406	2.2504513	21	6 1.1	20.0
159183 2005 UG_{51}	16.4	X	84.72631	224.13458	302.07665	3.10364	0.1175540	0.28676135	2.2774856	21	6 6.9	18.9
159184 2005 US_{59}	17.1	X	52.16755	21.93259	91.56387	2.48676	0.1364298	0.27144054	2.3623972	21	1 25.1	19.2
159185 2005 UZ_{59}	17.1	X	79.96219	33.34233	52.07518	3.56687	0.2121785	0.26989260	2.3714214	21	2 18.9	19.2
159186 2005 US_{80}	16.2	X	205.41052	358.73118	140.02567	5.26325	0.1793429	0.23682686	2.5873116	21	9 12.9	20.4
159187 2005 UY_{107}	17.1	X	329.72580	114.03501	65.43164	8.20099	0.1748273	0.26638367	2.3922009	21	—	—
159188 2005 UO_{120}	16.2	X	355.01976	273.37715	325.58566	1.20167	0.0181451	0.22318944	2.6916606	21	4 28.0	19.6
159189 2005 UO_{131}	15.9	X	304.68998	179.54791	165.73176	14.48356	0.1359498	0.23342789	2.6123672	21	6 25.1	19.3
159190 2005 UR_{142}	17.4	X	28.99855	95.77094	49.99814	2.01306	0.1305117	0.27126482	2.3634172	21	1 28.3	19.4
159191 2005 UW_{149}	16.6	X	184.03291	235.41031	308.75545	0.68440	0.0398711	0.24475872	2.5311076	21	10 27.1	20.0
159192 2005 UT_{156}	16.8	X	216.69574	70.62229	44.58966	5.72609	0.0452467	0.30155974	2.2023541	21	9 14.1	19.4
159193 2005 US_{164}	16.9	X	235.65367	358.29667	211.29927	0.80478	0.1323265	0.25887665	2.4382270	21	—	—
159194 2005 UR_{212}	17.1	X	337.02797	333.12141	177.49722	1.82189	0.1604448	0.26174281	2.4203948	21	—	—
159195 2005 UY_{215}	16.8	X	30.19907	347.54011	135.20036	2.87140	0.1657716	0.26771795	2.3842460	21	—	—
159196 2005 UA_{217}	17.2	X	210.38629	335.26976	55.48131	3.95614	0.1670649	0.28607572	2.2811231	21	4 29.9	20.6
159197 2005 UD_{218}	15.2	X	12.92927	160.20207	119.05970	15.93717	0.0826840	0.21679045	2.7443697	21	7 21.6	18.4
159198 2005 UB_{238}	16.6	X	279.87949	339.73929	136.02094	4.34433	0.1229814	0.24698918	2.5158462	21	11 22.5	19.4
159199 2005 UA_{248}	17.3	X	49.52284	95.81001	59.74469	3.07530	0.1393339	0.27666320	2.3325723	21	3 25.9	19.4
159200 2005 UA_{261}	17.1	X	136.40210	232.76599	204.07526	3.26521	0.1707165	0.27811561	2.3244443	21	4 17.8	20.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
159201 2005 UH_{281}	17.3	X	51.72312	309.92684	207.93527	2.49394	0.1071674	0.27903652	2.3193272	21	3 28.1	19.3
159202 2005 UB_{318}	16.9	X	260.41359	264.84610	345.74630	1.20568	0.1527760	0.27142590	2.3624821	21	—	—
159203 2005 UY_{336}	16.9	X	310.38269	306.33582	58.55700	23.59523	0.0931380	0.36134763	1.9521772	21	9 6.3	19.3
159204 2005 UN_{345}	16.9	X	124.41283	9.10941	98.83570	3.58142	0.1018427	0.28063388	2.3105178	21	5 8.3	19.8
159205 2005 UY_{445}	17.4	X	201.36609	274.55035	196.70566	2.74768	0.0863430	0.29496589	2.2350549	21	8 10.6	20.4
159206 2005 UQ_{453}	16.0	X	78.35725	236.59805	187.35736	1.64636	0.0933710	0.19749087	2.9203710	21	1 17.1	19.6
159207 2005 VO_{31}	16.9	X	301.83343	91.62293	81.86311	3.48077	0.1133127	0.25933463	2.4353556	21	—	—
159208 2005 VT_{56}	17.1	X	171.38563	271.07952	124.01954	2.84434	0.1215557	0.27942734	2.3171640	21	3 27.9	20.3
159209 2005 VW_{70}	17.6	X	339.22459	66.97190	110.27760	3.38006	0.1280063	0.26644931	2.3918080	21	—	—
159210 2005 WO_{9}	16.1	X	48.79014	196.57030	252.09940	1.04771	0.0349657	0.20272157	2.8699175	21	1 1.3	19.8
159211 2005 WP_{23}	17.1	X	151.75370	205.50632	3.63503	2.62404	0.0918110	0.30366459	2.1921652	21	10 27.6	20.0
159212 2005 WF_{25}	17.0	X	42.70605	100.50922	29.81285	3.61199	0.1293971	0.20592068	2.8401160	21	2 19.6	20.1
159213 2005 WH_{36}	16.8	X	86.65732	359.65320	97.72961	2.38749	0.1503436	0.27119968	2.3637957	21	3 9.3	19.1
159214 2005 WT_{39}	16.4	X	288.64256	164.74901	75.09926	6.11831	0.1584181	0.26851537	2.3795233	21	1 6.7	19.8
159215 Apan	17.2	X	289.43530	7.66380	23.25418	8.01472	0.1162320	0.29718178	2.2239308	21	8 16.5	19.6
159216 2005 WD_{72}	16.1	X	342.59087	340.01928	132.42898	13.70396	0.1124734	0.25602979	2.4562678	21	—	—
159217 2005 WQ_{73}	16.8	X	101.49227	15.52864	50.67499	3.24311	0.1692720	0.26996357	2.3710057	21	2 20.2	19.4
159218 2005 WU_{76}	16.5	X	145.86671	146.45368	23.40603	2.82346	0.0556098	0.23073341	2.6326658	21	8 23.6	20.3
159219 2005 WF_{86}	17.5	X	326.13364	15.54933	204.71808	0.65114	0.1391370	0.27254974	2.3559833	21	1 26.9	20.1
159220 2005 WF_{87}	16.5	X	172.19938	331.91612	73.47434	1.54782	0.0760684	0.21273406	2.7791460	21	4 14.1	20.7
159221 2005 WX_{98}	17.1	X	61.48893	345.70476	247.09306	4.85507	0.1076881	0.29017580	2.2595845	21	8 7.1	19.6
159222 2005 WS_{100}	17.0	X	78.53426	74.43331	86.12595	3.31681	0.0473880	0.28184228	2.3039088	21	5 9.4	19.5
159223 2005 WO_{114}	17.0	X	207.55846	19.37610	45.80069	6.45845	0.1419086	0.28857553	2.2679303	21	6 11.6	20.4
159224 2005 WU_{187}	15.5	X	224.38890	20.50524	136.83012	12.02942	0.1770597	0.24058361	2.5603069	21	10 29.2	19.5
159225 2005 WM_{195}	14.7	X	271.38050	71.98838	98.02385	17.38684	0.1775412	0.18225988	3.0808839	21	12 26.1	18.6
159226 2005 WF_{203}	16.8	X	135.31981	349.73713	83.22731	12.90764	0.1047143	0.27446652	2.3450015	21	4 10.8	20.2
159227 2005 XU_{3}	16.9	X	76.91099	354.97863	87.35345	2.65429	0.1530569	0.26810587	2.3819456	21	1 29.6	19.0
159228 2005 XD_{5}	16.8	X	308.80097	170.31202	224.72795	7.52272	0.1471742	0.30212895	2.1995871	21	9 17.6	18.7
159229 2005 XQ_{24}	16.5	X	203.85143	342.29013	69.56555	6.86955	0.1665845	0.28436621	2.2902562	21	5 21.4	20.0
159230 2005 XW_{59}	16.9	X	165.89288	241.41754	271.12601	1.07359	0.1377812	0.22860740	2.6489628	21	8 23.2	21.2
159231 2005 XF_{60}	17.1	X	236.02369	161.92813	64.10927	3.74622	0.1449872	0.25495002	2.4631982	21	—	—
159232 2005 XU_{72}	15.8	X	71.92751	87.94749	49.56994	4.39401	0.0456787	0.21015222	2.8018619	21	4 5.8	19.5
159233 2005 XY_{80}	16.0	X	11.38068	123.34458	76.27895	15.89546	0.1670637	0.20964981	2.8063365	21	4 5.9	19.3
159234 2005 XK_{91}	16.1	X	59.13245	264.35268	77.31461	12.58815	0.0382983	0.24405217	2.5359904	21	12 17.2	19.4
159235 2005 YN_{4}	16.7	X	285.86016	17.07943	161.51792	2.90858	0.1625887	0.25632307	2.4543939	21	—	—
159236 2005 YE_{15}	16.3	X	256.76714	203.37259	111.23948	7.48126	0.1112200	0.27168628	2.3609724	21	3 16.2	19.8
159237 2005 YR_{16}	16.6	X	359.11765	337.64578	132.50447	2.44532	0.1944433	0.19062620	2.9900674	21	—	—
159238 2005 YN_{30}	16.1	X	256.79420	298.99656	108.56564	8.66654	0.1130522	0.29068917	2.2569234	21	7 18.8	18.8
159239 2005 YP_{32}	16.1	X	135.93405	133.71415	142.41969	2.72650	0.1200626	0.24187794	2.5511649	21	12 26.5	20.0
159240 2005 YW_{33}	15.5	X	197.72590	322.92846	180.10953	0.63347	0.0908273	0.16713236	3.2640917	21	9 10.1	20.5
159241 2005 YW_{37}	16.4	X	333.62270	336.06368	140.81587	6.71936	0.0983723	0.25424061	2.4677780	21	—	—
159242 2005 YA_{38}	16.4	X	319.56112	348.71584	63.53412	8.78406	0.1609821	0.24055764	2.5604912	21	10 30.5	18.8
159243 2005 YO_{43}	16.0	X	299.57181	308.59469	126.67265	7.22756	0.1023523	0.23617889	2.5920418	21	10 31.9	19.1
159244 2005 YX_{45}	15.2	X	209.09617	44.63308	135.43826	2.24426	0.1276754	0.17483988	3.1674447	21	11 3.5	20.0
159245 2005 YL_{49}	15.8	X	245.83123	42.09032	144.07032	2.09050	0.1306804	0.18085401	3.0968295	21	12 19.3	20.2
159246 2005 YT_{52}	16.2	X	197.53213	297.27520	103.71131	4.54146	0.0763799	0.21562180	2.7542769	21	5 6.9	20.3
159247 2005 YB_{69}	16.7	X	358.54400	301.10854	74.14758	2.76244	0.1067838	0.24007295	2.5639363	21	11 15.6	19.4
159248 2005 YK_{90}	15.8	X	128.99344	75.58952	193.26619	1.73687	0.0763328	0.17635791	3.1492424	21	11 29.9	20.6
159249 2005 YC_{91}	17.0	X	223.97056	258.79879	129.90643	6.62296	0.1023948	0.28062917	2.3105437	21	5 16.0	20.3
159250 2005 YT_{108}	15.9	X	239.26686	8.55348	147.17984	1.49624	0.1208017	0.17696947	3.1419828	21	11 6.8	20.4
159251 2005 YK_{110}	16.7	X	270.42672	134.15828	138.96686	4.21500	0.1726507	0.26598138	2.3946124	21	1 28.7	20.2
159252 2005 YM_{116}	15.6	X	353.01344	175.46357	107.29096	10.51648	0.1263034	0.21724934	2.7405038	21	6 21.7	18.6
159253 2005 YT_{118}	16.2	X	322.46285	200.80063	120.57631	3.70587	0.0884682	0.22231101	2.6987463	21	6 26.6	19.3
159254 2005 YE_{124}	15.6	X	135.14968	71.17604	61.57770	7.36137	0.0785932	0.21916533	2.7245084	21	6 22.8	19.6
159255 2005 YS_{134}	15.2	X	192.84347	237.68279	10.68208	5.69536	0.1228360	0.18397064	3.0617546	21	—	—
159256 2005 YA_{143}	16.6	X	177.20942	40.23825	23.74384	1.77920	0.1737358	0.21474915	2.7617334	21	5 14.7	21.2
159257 2005 YE_{144}	15.2	X	253.43718	211.74805	311.97323	2.44437	0.0692849	0.17877262	3.1208199	21	12 9.4	19.6
159258 2005 YC_{145}	15.4	X	231.20350	79.58591	92.80018	2.69117	0.1279359	0.17572760	3.1567685	21	11 16.7	20.0
159259 2005 YY_{165}	16.9	X	105.19038	315.27315	45.75208	3.70377	0.1040219	0.25695476	2.4503697	21	—	—
159260 2005 YK_{174}	15.5	X	261.84269	84.21238	11.23451	4.86900	0.1511189	0.17230719	3.1984074	21	9 16.3	20.0
159261 2005 YC_{175}	16.0	X	300.67216	164.14068	249.42227	4.23489	0.2717210	0.23559492	2.5963233	21	8 31.7	18.8
159262 2005 YH_{177}	15.6	X	310.43458	161.75653	111.93701	4.50461	0.0568152	0.21026932	2.8008215	21	4 12.1	19.3
159263 2005 YB_{184}	15.4	X	78.65620	351.18788	119.01113	16.05343	0.0931168	0.20478266	2.8506283	21	3 22.7	19.4
159264 2005 YY_{185}	15.9	X	298.84435	46.76467	58.86918	2.06348	0.1281004	0.17880429	3.1204515	21	11 22.0	19.5
159265 2005 YA_{190}	16.8	X	212.48150	86.81290	12.12985	1.75597	0.0881882	0.22604131	2.6689729	21	8 5.6	20.6
159266 2005 YS_{192}	15.8	X	178.33177	218.20696	94.68930	2.63257	0.1150121	0.19178962	2.9779631	21	1 3.8	20.5
159267 2005 YG_{198}	16.8	X	210.62368	195.46337	104.61979	5.35597	0.1463303	0.26254365	2.4154703	21	1 8.4	20.4
159268 2005 YA_{201}	15.9	X	274.56929	126.03439	91.75735	2.47269	0.0781317	0.19130650	2.9829747	21	—	—
159269 2005 YP_{203}	15.9	X	74.77854	140.25513	110.83200	7.09332	0.0669738	0.22638649	2.6662593	21	9 15.2	19.5
159270 2005 YC_{209}	15.1	X	324.59348	108.91338	71.42249	13.54722	0.1228565	0.19316675	2.9637925	21	—	—
159271 2005 YB_{213}	16.6	X	331.35774	311.78522	41.35148	7.03051	0.2243040	0.29584735	2.2306132	21	8 29.8	17.8
159272 2005 YU_{215}	16.6	X	314.31763	293.12513	69.09130	8.21880	0.1539186	0.29312707	2.2443923	21	8 10.0	18.6
159273 2005 YH_{240}	16.2	X	344.20120	249.56470	70.56675	5.14646	0.0595337	0.22590736	2.6700279	21	8 3.4	19.5
159274 2005 YV_{247}	16.7	X	120.24190	75.73084	289.24761	0.31366	0.2007772	0.25883795	2.4384700	21	—	—
159275 2006 AD_{4}	15.9	X	299.04605	346.55683	91.04142	13.35156	0.1005415	0.23665683	2.5885508	21	11 5.8	19.1
159276 2006 AE_{5}	16.1	X	348.06024	22.90969	33.00480	7.07865	0.0486650	0.24389117	2.5371063	21	12 19.3	19.3
159277 2006 AL_{5}	15.1	X	298.82231	54.65510	54.06453	10.56846	0.0820111	0.17914176	3.1165313	21	11 29.9	19.2
159278 2006 AL_{7}	15.9	X	308.07261	6.60878	63.59193	14.75266	0.1623553	0.23720290	2.5845765	21	11 3.5	18.5
159279 2006 AB_{13}	16.2	X	202.92954	284.85993	134.92176	5.48386	0.1032269	0.21944737	2.7221734	21	6 4.5	20.5
159280 2006 AG_{18}	14.9	X	230.17406	349.25624	139.56095	8.89495	0.0440598	0.16835004	3.2483331	21	10 6.1	19.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
159281 2006 AK_{19}	14.8	X	355.62601	15.38621	68.54184	11.06126	0.0755377	0.18328411	3.0693955	21	—	—
159282 2006 AC_{27}	15.2	X	197.81443	223.72557	310.85807	1.94498	0.1102589	0.17183589	3.2042529	21	10 16.2	20.1
159283 2006 AP_{27}	16.0	X	36.50525	348.57220	267.37970	4.17256	0.1156608	0.21911898	2.7248925	21	7 30.4	19.2
159284 2006 AT_{32}	14.6	X	199.88128	174.32301	76.32643	18.68183	0.1641063	0.17923157	3.1154902	21	—	—
159285 2006 AG_{35}	16.8	X	26.63519	121.95214	147.98331	1.80591	0.0336043	0.22199244	2.7013277	21	7 26.3	20.1
159286 2006 AH_{36}	15.8	X	198.85515	207.04470	64.09797	1.69692	0.1585610	0.18640037	3.0350897	21	—	—
159287 2006 AN_{40}	16.1	X	40.30823	6.48748	38.57130	0.96928	0.0502129	0.18520984	3.0480823	21	—	—
159288 2006 AL_{71}	15.5	X	238.28458	43.01427	142.68089	5.86517	0.0957656	0.17843650	3.1247379	21	12 14.7	20.0
159289 2006 AY_{71}	16.2	X	131.12768	33.44410	203.83118	1.40547	0.0762662	0.16903936	3.2394963	21	10 24.9	21.0
159290 2006 AU_{77}	16.5	X	243.93160	249.93447	170.32805	2.85302	0.0634887	0.22528689	2.6749280	21	7 24.6	20.3
159291 2006 BX	14.2	X	189.66440	194.42322	45.71395	28.15890	0.0991640	0.17931760	3.1144936	21	12 21.9	19.4
159292 2006 BE_{7}	15.5	X	7.19457	320.13548	130.33872	10.83924	0.1870586	0.18744541	3.0237985	21	—	—
159293 2006 BV_{21}	16.8	X	221.95006	249.53722	135.95197	6.62933	0.1614249	0.27874788	2.3209280	21	5 6.8	20.4
159294 2006 BQ_{30}	15.5	X	92.63170	194.73063	120.16544	9.09212	0.0898892	0.23966738	2.5668280	21	12 28.5	19.3
159295 2006 BP_{43}	15.9	X	248.56058	289.49008	144.56946	12.54546	0.1959249	0.22632018	2.6667801	21	7 31.4	20.0
159296 2006 BM_{44}	15.5	X	63.43098	279.18590	149.84119	1.46538	0.0309528	0.18857290	3.0117334	21	—	—
159297 2006 BT_{45}	14.9	X	105.26055	149.85950	156.09477	9.64175	0.0772916	0.17285785	3.1916112	21	12 18.5	19.8
159298 2006 BV_{46}	15.3	X	66.91956	264.76307	147.40147	10.18924	0.0825842	0.18825039	3.0151723	21	—	—
159299 2006 BJ_{50}	15.9	X	1.15957	216.18839	44.69814	2.68668	0.0329739	0.21455390	2.7634086	21	6 6.1	19.3
159300 2006 BZ_{57}	16.6	X	108.45896	230.19038	191.51186	1.57482	0.0614618	0.20037721	2.8922589	21	2 18.1	20.5
159301 2006 BD_{62}	14.8	X	164.95636	200.83507	82.10275	10.58528	0.0366812	0.18145775	3.0899566	21	—	—
159302 2006 BF_{65}	16.0	X	197.97001	220.58158	163.56553	2.27866	0.0857862	0.20487665	2.8497564	21	4 16.1	20.2
159303 2006 BY_{66}	16.2	X	82.10807	229.78936	77.88588	1.97787	0.2535243	0.23688157	2.5869133	21	12 22.6	20.2
159304 2006 BK_{77}	16.4	X	121.09639	42.85103	256.11101	2.67012	0.2360085	0.24274305	2.5451000	21	—	—
159305 2006 BG_{79}	15.4	X	89.24971	296.34057	30.66490	5.89996	0.1581837	0.17296107	3.1903413	21	—	—
159306 2006 BA_{81}	15.7	X	307.43079	212.80489	123.53936	6.14037	0.1628311	0.21420759	2.7663862	21	6 13.3	19.2
159307 2006 BY_{89}	15.7	X	193.73286	127.94501	109.29079	2.21137	0.1288903	0.17679411	3.1440602	21	12 24.1	20.5
159308 2006 BV_{98}	15.0	X	309.02514	220.69441	196.39998	8.51093	0.0148522	0.17102063	3.2144281	21	10 16.7	19.4
159309 2006 BO_{100}	16.3	X	223.26217	296.35176	150.83069	2.59675	0.1069083	0.22307852	2.6925527	21	7 30.7	20.3
159310 2006 BG_{101}	16.3	X	64.35189	196.90508	119.56835	4.49929	0.1864837	0.23658660	2.5890630	21	12 10.4	20.1
159311 2006 BV_{101}	15.0	X	12.23847	302.19468	145.59401	11.68666	0.0961993	0.18560639	3.0437392	21	—	—
159312 2006 BE_{149}	15.2	X	270.30591	311.18607	248.19341	9.91419	0.0964174	0.18481398	3.0524332	21	—	—
159313 2006 BF_{150}	15.8	X	333.90346	256.37234	54.17043	6.25801	0.0113875	0.21830689	2.7316460	21	7 6.8	19.4
159314 2006 BQ_{152}	16.4	X	320.03843	267.55426	78.34053	3.94504	0.0911151	0.22140415	2.7061106	21	7 28.3	19.5
159315 2006 BU_{166}	15.6	X	54.27403	34.91782	27.46388	1.03173	0.1065361	0.18868135	3.0105793	21	—	—
159316 2006 BY_{185}	15.5	X	142.22825	106.05950	163.03057	5.02327	0.1454682	0.17225985	3.1989934	21	12 14.1	20.7
159317 2006 BK_{195}	15.5	X	173.40998	148.57085	158.09003	11.63782	0.0837723	0.18629823	3.0361989	21	—	—
159318 2006 BG_{207}	16.0	X	116.32124	150.11847	140.72580	8.64398	0.1945359	0.23894493	2.5719992	21	12 27.8	20.4
159319 2006 BT_{220}	15.2	X	275.44642	129.39498	98.12231	3.79479	0.0411015	0.19152452	2.9807104	21	1 4.7	19.5
159320 2006 BH_{222}	15.5	X	319.36833	179.71705	144.77561	10.10231	0.1626371	0.21708581	2.7418799	21	6 16.7	18.8
159321 2006 BZ_{267}	14.9	X	303.91128	97.53808	59.75270	5.28650	0.0534788	0.18341631	3.0679203	21	—	—
159322 2006 BY_{270}	15.1	X	14.04135	17.99172	104.92209	12.42482	0.0390633	0.19225070	2.9731998	21	—	—
159323 2006 BH_{274}	16.2	X	344.71436	276.84176	149.93470	2.66744	0.0499093	0.17578649	3.1560634	21	12 13.6	20.3
159324 2006 CW_{11}	15.7	X	202.57663	63.06754	156.79414	1.39401	0.1288533	0.17612542	3.1520132	21	12 12.6	20.4
159325 2006 CN_{14}	15.9	X	3.46716	155.16081	145.34567	7.82198	0.1962067	0.21922574	2.7240078	21	8 10.1	18.3
159326 2006 CL_{15}	14.9	X	215.07961	151.19492	106.99686	7.43536	0.0514369	0.18583476	3.0412451	21	—	—
159327 2006 CW_{26}	16.0	X	214.57487	99.67003	122.22843	0.63333	0.1231277	0.17879760	3.1205293	21	12 27.7	20.7
159328 2006 CF_{27}	16.1	X	114.58100	164.18953	141.13047	2.48973	0.0998641	0.24224812	2.5485653	21	—	—
159329 2006 CA_{50}	15.5	X	73.26434	286.75843	45.88342	2.76055	0.0904310	0.17523787	3.1626472	21	12 16.5	20.1
159330 2006 CZ_{50}	16.3	X	318.54796	49.60913	300.36315	2.93239	0.1140049	0.22401830	2.6850171	21	7 28.1	19.2
159331 2006 DU_{5}	15.3	X	191.95041	145.79260	93.72437	5.39839	0.0903668	0.17630236	3.1499038	21	12 27.8	20.1
159332 2006 DM_{10}	15.1	X	167.82201	215.80653	128.57945	11.33831	0.1097465	0.19227034	2.9729973	21	1 29.9	19.6
159333 2006 DL_{26}	16.2	X	5.86336	191.53259	162.54544	2.26007	0.1102288	0.23012243	2.6373236	21	10 28.2	19.1
159334 2006 DT_{41}	15.7	X	184.63293	161.49964	119.54873	2.20502	0.0574725	0.18520651	3.0481188	21	—	—
159335 2006 DE_{67}	14.8	X	263.05602	316.10827	177.77902	10.11062	0.0862814	0.17250320	3.1959841	21	11 14.2	19.3
159336 2006 DD_{79}	15.7	X	133.12249	126.81432	194.66996	3.04298	0.1553572	0.17772042	3.1331257	21	—	—
159337 2006 DQ_{163}	15.8	X	250.96627	198.11868	179.58037	3.82481	0.1116551	0.21257375	2.7805430	21	6 1.9	19.9
159338 2006 DG_{198}	14.5	X	162.53870	181.62129	132.73487	24.90699	0.2015004	0.18080712	3.0973648	21	—	—
159339 2006 EE_{14}	14.7	X	163.04693	358.37612	354.88454	2.94283	0.1882732	0.12438770	3.9745175	21	2 18.6	21.0
159340 2006 EF_{14}	13.3	X	339.95929	122.41214	179.41328	10.74027	0.0375483	0.08089137	5.2950239	21	7 1.3	20.2
159341 2006 FX_{1}	15.7	X	246.21460	331.47310	328.91956	1.21389	0.0261599	0.19843698	2.9110811	21	2 28.1	19.7
159342 2006 JR	11.6	X	352.79611	14.49339	264.50775	29.18740	0.0878054	0.08185891	5.2532177	21	6 19.7	18.1
159343 2006 QP_{112}	15.3	X	259.81396	134.44562	149.28772	11.97178	0.1422528	0.17211162	3.2008299	21	2 16.1	20.1
159344 2006 QS_{142}	16.5	X	80.58704	46.50293	266.36869	3.29463	0.0589119	0.27344927	2.3508137	21	12 15.5	19.5
159345 2006 SV_{12}	16.9	X	59.49782	263.83778	52.28921	1.97842	0.1938070	0.27048492	2.3679581	21	12 10.8	20.3
159346 2006 SM_{212}	15.3	X	63.82893	228.00239	359.75746	12.35670	0.0814046	0.18275509	3.0753159	21	8 1.3	19.6
159347 2006 XS_{15}	16.3	X	135.65400	328.22129	91.95066	5.53113	0.0800002	0.22384180	2.6864283	21	3 24.0	20.1
159348 2007 CJ_{61}	17.1	X	20.88786	318.87605	193.48774	4.24071	0.0803936	0.27867348	2.3213411	21	1 22.8	19.6
159349 2007 DL_{4}	16.0	X	116.15122	336.20133	168.53383	14.02229	0.1924862	0.22580259	2.6708537	21	6 29.0	20.4
159350 2007 DL_{100}	15.5	X	205.26181	78.56228	31.86559	21.33537	0.2275628	0.23926792	2.5696841	21	8 14.5	20.3
159351 Leonpascal	17.0	X	202.13195	76.08342	84.63881	2.88589	0.1342746	0.24196883	2.5505261	21	10 11.3	20.9
159352 2007 EZ_{47}	16.1	X	294.18967	113.21091	41.92056	2.91463	0.0360659	0.18727052	3.0256807	21	—	—
159353 2007 EU_{88}	16.0	X	73.42941	338.85809	316.23901	1.25634	0.1579893	0.17621150	3.1509866	21	11 10.7	20.7
159354 2007 EL_{137}	15.6	X	312.28499	259.38191	164.06627	10.10057	0.0638888	0.18127127	3.0920754	21	10 29.0	19.7
159355 2007 EA_{138}	15.3	X	86.74679	327.20802	47.35203	9.90996	0.0388293	0.18867500	3.0106468	21	—	—
159356 2007 ES_{180}	15.8	X	96.90717	16.63428	270.87552	1.10141	0.0539411	0.17063569	3.2192606	21	11 14.5	20.4
159357 2007 EF_{204}	15.1	X	154.33495	38.74278	206.01697	9.38639	0.0517351	0.17627980	3.1501726	21	11 27.8	19.8
159358 2007 FA_{31}	15.6	X	256.21992	359.92711	149.57059	0.66493	0.1186813	0.18038887	3.1021507	21	11 19.5	20.0
159359 2007 FX_{35}	14.6	X	155.15074	237.44259	39.03817	11.47105	0.1108819	0.18043972	3.1015679	21	—	—
159360 2007 FF_{39}	15.1	X	146.11625	169.84448	81.37796	6.06595	0.1470435	0.17284554	3.1917628	21	11 27.4	20.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
159361 2007 GU_{23}	16.8	X	282.12798	196.04192	27.48244	1.38720	0.1340628	0.26256727	2.4153255	21	—	—
159362 2007 GX_{44}	16.0	X	319.39494	146.20663	156.78427	2.12976	0.0997071	0.21408615	2.7674322	21	5 26.2	19.3
159363 2007 HT_{23}	17.3	X	83.29391	125.65430	47.86249	6.81816	0.0683097	0.28575420	2.2828338	21	6 6.7	19.8
159364 4854 P–L	16.2	X	40.45137	238.89596	144.69149	3.54859	0.1545176	0.24570582	2.5245991	21	—	—
159365 6752 P–L	15.4	X	28.62130	343.38989	78.55317	2.76031	0.1807361	0.18148126	3.0896896	21	—	—
159366 3133 T–2	15.6	X	25.85386	150.69492	173.61032	16.17318	0.2051888	0.22720628	2.6598419	21	11 5.0	18.9
159367 1977 OX	15.5	X	75.64393	226.65343	100.69907	16.09747	0.4880944	0.15944396	3.3681959	21	—	—
159368 1979 QB	17.0	X	262.73325	12.58163	342.17976	3.33598	0.4409391	0.27677063	2.3319687	21	4 10.8	21.4
159369 1993 UJ_{4}	16.3	X	229.38614	227.13430	168.30241	7.07714	0.1212508	0.27221899	2.3578913	21	5 29.5	19.8
159370 1994 JA_{2}	16.1	X	120.41802	153.95557	197.58705	5.04883	0.1339822	0.24320428	2.5418811	21	—	—
159371 1995 CG_{8}	15.3	X	87.56805	129.54598	269.58251	1.83954	0.0871339	0.18634976	3.0356392	21	1 1.2	19.3
159372 1995 YP_{7}	15.7	X	306.77439	238.24049	99.24975	6.89816	0.0370123	0.21643785	2.7473495	21	7 2.1	19.3
159373 1996 FD_{18}	16.1	X	0.68839	170.54044	24.65380	10.16998	0.0983610	0.27228085	2.3575341	21	2 25.9	18.7
159374 1996 RW_{7}	15.8	X	316.51302	2.91673	232.52703	9.90838	0.2343369	0.26474816	2.4020429	21	1 19.5	19.3
159375 1996 XQ_{31}	15.8	X	311.86852	311.05341	98.53078	12.80555	0.1770794	0.23134617	2.6280150	21	10 12.7	18.7
159376 1997 GW_{31}	15.3	X	237.08802	215.82837	188.46371	15.27056	0.0224004	0.21416445	2.7667577	21	6 28.9	19.5
159377 1997 TO_{1}	17.0	X	300.25012	81.76050	225.41871	4.18052	0.1619246	0.27781491	2.3261213	21	4 16.3	19.6
159378 1997 TS_{20}	13.1	X	312.69453	227.33879	206.58653	5.62670	0.0818271	0.08510271	5.1188662	21	10 23.4	19.4
159379 1998 AQ_{5}	16.4	X	217.78674	352.81695	135.25278	11.33622	0.1661266	0.23421620	2.6065022	21	9 13.8	20.4
159380 1998 CV	15.9	X	209.66768	0.69308	150.34408	6.50834	0.2371611	0.23708959	2.5853999	21	9 28.3	20.1
159381 1998 FB	15.8	X	180.55974	158.34223	45.75146	5.34816	0.0481308	0.23705698	2.5856370	21	11 15.8	19.3
159382 1998 FQ_{110}	15.6	X	94.17766	29.23380	237.52152	8.81136	0.3225815	0.22782472	2.6550263	21	11 18.2	20.2
159383 1998 FC_{136}	15.7	X	80.38826	45.59438	199.12341	13.08654	0.1043427	0.22649568	2.6654023	21	9 13.8	19.4
159384 1998 HO_{147}	15.4	X	114.60489	3.38804	200.65154	13.15179	0.1187236	0.22373143	2.6873117	21	9 1.4	19.6
159385 1998 KC_{7}	15.3	X	75.78025	208.55071	74.48426	12.86588	0.1875095	0.22583514	2.6705971	21	11 12.1	19.3
159386 1998 KE_{58}	15.1	X	15.70924	164.28032	141.92868	10.70544	0.2304519	0.21869414	2.7284204	21	9 23.6	17.8
159387 1998 MT_{18}	15.7	X	58.32049	204.58408	114.19665	15.79990	0.2696754	0.22535786	2.6743664	21	12 16.1	19.9
159388 1998 OL_{11}	14.8	X	320.31538	60.94210	316.12682	12.42772	0.2102101	0.21462905	2.7627635	21	8 24.9	17.5
159389 1998 QW_{3}	15.6	X	349.99625	130.41277	185.91441	6.17174	0.3844772	0.21464360	2.7626386	21	7 23.6	16.8
159390 1998 QJ_{11}	15.2	X	92.83459	339.27057	319.54367	12.77273	0.1786259	0.22498787	2.6772976	21	12 13.9	19.6
159391 1998 QD_{28}	15.5	X	156.50979	212.22839	167.74993	12.22719	0.0690939	0.19422339	2.9530334	21	2 24.9	20.0
159392 1998 QY_{35}	15.3	X	252.78923	219.50693	143.69534	7.56711	0.3388059	0.20490950	2.8494518	21	4 28.5	20.4
159393 1998 SR_{15}	15.9	X	241.22354	40.41078	252.46735	0.79860	0.0804281	0.19539093	2.9412580	21	2 9.7	20.3
159394 1998 SK_{37}	15.4	X	221.03511	5.44556	274.42018	1.76603	0.1281784	0.18854930	3.0119847	21	1 5.7	20.3
159395 1998 SQ_{41}	16.2	X	230.66731	310.12836	355.10622	1.86453	0.1058248	0.19502717	2.9449142	21	2 13.2	20.8
159396 1998 SH_{70}	15.0	X	313.90397	289.93653	63.12833	8.55708	0.2467529	0.21071615	2.7968607	21	7 3.8	18.2
159397 1998 SD_{90}	15.0	X	112.23018	200.15275	203.58570	10.09615	0.1144318	0.19063252	2.9900014	21	2 7.2	19.3
159398 1998 TN_{38}	15.3	X	36.44552	214.17265	191.91564	19.22299	0.2600186	0.17856062	3.1232896	21	—	—
159399 1998 UL_{1}	16.5	X	182.43877	353.20825	214.85870	41.96916	0.2140088	0.52244613	1.5267750	21	12 18.9	18.9
159400 1998 VL	16.4	X	280.99743	297.90724	98.14872	7.96252	0.1418796	0.29411398	2.2393687	21	8 2.7	18.9
159401 1998 VM_{22}	14.7	X	341.30183	124.68949	242.16328	6.42015	0.3235597	0.21292778	2.7774601	21	9 25.5	16.4
159402 1999 AP_{10}	16.1	X	65.04184	47.57883	356.84802	7.57396	0.5714422	0.26827968	2.3809167	21	1 19.6	15.6
159403 1999 CN_{141}	17.7	X	23.00433	24.59916	128.98157	2.43747	0.1149770	0.26906228	2.3762976	21	1 29.5	19.9
159404 1999 FX_{34}	15.1	X	325.99046	339.07531	87.81052	5.17355	0.1721634	0.29186600	2.2508525	21	12 20.5	16.7
159405 1999 JG_{110}	15.9	X	126.04426	55.91622	246.50793	11.59611	0.2927589	0.24362366	2.5389632	21	—	—
159406 1999 KO	16.2	X	200.93749	179.30211	80.19091	16.65109	0.1007153	0.25106043	2.4885738	21	—	—
159407 1999 NW_{51}	15.0	X	32.55576	145.45176	219.53754	11.42982	0.2694429	0.23343428	2.6123195	21	—	—
159408 1999 NU_{53}	15.5	X	65.45977	69.96622	247.50078	10.37190	0.2048406	0.23341606	2.6124555	21	12 13.8	19.3
159409 Ratte	15.5	X	148.53191	10.23667	305.74598	13.89710	0.1184306	0.24377805	2.5378911	21	—	—
159410 1999 RU_{122}	15.5	X	29.40611	209.28385	148.56907	14.28721	0.2580508	0.23057708	2.6338556	21	12 30.1	19.1
159411 1999 RG_{126}	15.6	X	276.27727	204.46428	182.70626	7.63422	0.3105438	0.21871595	2.7282390	21	6 16.9	19.8
159412 1999 RZ_{133}	15.5	X	180.17877	40.02075	263.41220	4.96576	0.1976017	0.24535293	2.5270193	21	—	—
159413 1999 RS_{145}	15.7	X	165.92399	89.35582	199.41800	5.68292	0.2023429	0.24229177	2.5482592	21	—	—
159414 1999 RN_{178}	15.7	X	357.72110	222.33094	149.20023	5.30003	0.3791723	0.22663220	2.6643318	21	12 15.9	17.8
159415 1999 RL_{189}	15.6	X	356.83899	310.07359	353.90334	14.43524	0.1439169	0.22063288	2.7124135	21	8 5.6	18.6
159416 1999 RV_{201}	15.2	X	84.44384	25.45779	249.03273	12.98179	0.2254255	0.22894547	2.6463544	21	11 10.9	19.5
159417 1999 RM_{232}	15.2	X	143.18352	265.31127	53.41477	13.21730	0.3166796	0.24162666	2.5529334	21	—	—
159418 1999 RD_{233}	15.7	X	316.04771	185.05672	188.55218	12.05598	0.2011620	0.22314219	2.6920405	21	8 12.1	18.8
159419 1999 SQ_{6}	15.0	X	19.29416	253.69590	84.01565	13.50858	0.2037143	0.22638758	2.6662507	21	11 12.7	18.1
159420 1999 SN_{14}	16.0	X	318.10127	171.57021	181.06392	5.23817	0.1753666	0.21996447	2.7179055	21	7 21.5	19.0
159421 1999 TN_{10}	16.2	X	146.53533	119.20624	204.58449	4.83267	0.2898202	0.24060626	2.5601462	21	—	—
159422 1999 TL_{34}	15.4	X	314.48107	173.21264	172.52046	13.56398	0.2074797	0.21823577	2.7322395	21	6 30.1	18.8
159423 1999 TQ_{75}	15.9	X	95.57283	209.03072	219.60286	9.72012	0.0015422	0.19769055	2.9184042	21	1 30.9	20.2
159424 1999 TD_{97}	15.2	X	217.48286	290.38876	112.01085	8.66554	0.2341055	0.21112840	2.7932187	21	5 23.7	20.1
159425 1999 TY_{151}	15.5	X	15.11440	146.00969	182.49219	11.69604	0.2050478	0.22393281	2.6857004	21	10 20.8	18.3
159426 1999 TJ_{265}	15.6	X	132.39347	117.63680	246.38372	13.82190	0.1429707	0.24367927	2.5385769	21	1 7.5	19.2
159427 1999 TG_{268}	15.1	X	71.04219	358.26708	258.66634	11.95935	0.1468505	0.22436730	2.6822320	21	9 20.2	19.1
159428 1999 UH_{4}	15.4	X	238.02841	195.16470	196.67975	9.38426	0.2048074	0.21156883	2.7893409	21	5 28.9	20.0
159429 1999 UM_{20}	15.9	X	194.55249	313.63952	101.60372	1.76873	0.0653357	0.21054307	2.7983933	21	5 21.1	20.0
159430 1999 UL_{50}	15.9	X	263.41951	213.06914	159.26363	5.64198	0.1707825	0.21296077	2.7771733	21	6 2.4	20.1
159431 1999 VT_{18}	16.7	X	106.11449	50.70414	246.92749	2.72837	0.2802529	0.23286412	2.6165819	21	12 30.1	21.4
159432 1999 VW_{18}	16.2	X	104.96865	55.32486	247.48715	2.60004	0.2742169	0.23321103	2.6139864	21	—	—
159433 1999 VO_{93}	15.8	X	305.08022	109.67868	203.29525	7.14786	0.1350530	0.21315945	2.7754473	21	5 13.4	19.4
159434 1999 VQ_{94}	15.8	X	329.30661	138.84181	214.71198	8.57432	0.2101398	0.22049633	2.7135332	21	8 8.2	18.6
159435 1999 VJ_{178}	15.4	X	240.31599	309.31619	73.63579	9.59890	0.1411534	0.21131783	2.7915492	21	5 24.9	19.8
159436 1999 VS_{178}	15.5	X	275.91750	211.99412	169.03403	8.33922	0.2172040	0.21538889	2.7562622	21	6 21.1	19.6
159437 1999 VS_{208}	15.7	X	8.81735	86.75107	67.14890	12.03921	0.0411387	0.19500988	2.9450882	21	2 3.1	19.8
159438 1999 XM_{3}	15.7	X	326.31573	202.08745	206.79055	5.45471	0.1438591	0.22291983	2.6938304	21	11 2.6	18.3
159439 1999 XR_{12}	15.3	X	235.74982	146.23694	218.28785	12.85249	0.2009687	0.20630149	2.8366199	21	4 22.5	20.0
159440 1999 XL_{62}	16.3	X	11.90936	116.87993	271.02650	1.66217	0.2196724	0.22655996	2.6648982	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
159441 1999 XZ_{88}	15.0	X	351.62482	116.35421	269.81164	8.22886	0.1372384	0.22042331	2.7141324	21	11 15.4	18.0
159442 1999 XY_{152}	15.3	X	329.96341	330.84187	144.06741	6.53957	0.2049541	0.18283416	3.0744291	21	—	—
159443 1999 XD_{171}	15.3	X	54.39158	46.87005	338.33250	4.22742	0.2402705	0.22965546	2.6408975	21	—	—
159444 1999 XN_{209}	14.8	X	115.58895	50.05270	317.52146	12.22883	0.2039778	0.23622675	2.5916916	21	1 5.9	18.3
159445 2000 AA_{25}	15.1	X	34.67494	74.12234	282.33979	11.53438	0.2944006	0.22434547	2.6824060	21	—	—
159446 2000 AF_{83}	14.8	X	132.54803	270.99002	125.55373	10.95721	0.1193925	0.19314692	2.9639954	21	2 27.3	19.2
159447 2000 AT_{107}	15.2	X	295.00579	242.47233	124.69339	9.62668	0.3472539	0.21451419	2.7637496	21	6 8.2	19.1
159448 2000 AH_{199}	15.3	X	299.75344	253.38699	126.77025	10.07823	0.2587634	0.21902107	2.7257046	21	7 15.6	18.4
159449 2000 AD_{224}	15.2	X	307.22644	80.47186	276.96600	4.85032	0.0742019	0.21169100	2.7882676	21	7 24.4	18.8
159450 2000 BK_{33}	15.0	X	231.08552	21.38821	130.92670	5.80101	0.0498094	0.17031068	3.2233549	21	11 3.1	19.7
159451 2000 BB_{38}	15.4	X	182.11691	143.65397	122.29243	14.87088	0.1998464	0.17736371	3.1373253	21	—	—
159452 2000 BC_{38}	15.8	X	148.37633	200.02896	123.16229	2.96557	0.0648487	0.18272486	3.0756550	21	—	—
159453 2000 BH_{44}	15.7	X	203.95363	302.92249	298.89548	1.57947	0.1543419	0.17271080	3.1934225	21	—	—
159454 2000 DJ_{8}	18.1	X	2.63359	262.92623	139.53986	37.75115	0.2526268	0.58797318	1.4111214	21	—	—
159455 2000 DD_{32}	15.1	X	312.39685	271.41361	160.42702	19.43537	0.1389935	0.17043665	3.2217665	21	11 2.7	19.4
159456 2000 ER_{131}	16.6	X	106.41475	190.39222	4.68072	6.46320	0.1122327	0.29310153	2.2445227	21	8 20.1	19.5
159457 2000 JP_{38}	16.9	X	347.05115	28.36762	239.24480	2.19972	0.2101314	0.28093195	2.3088832	21	4 30.6	18.5
159458 2000 JW_{83}	16.3	X	58.57267	104.53027	106.82666	24.35602	0.2148465	0.28611637	2.2809070	21	7 21.9	18.6
159459 2000 KB	16.1	X	306.25881	185.34918	185.36719	56.19677	0.7990508	0.27608256	2.3358417	21	4 22.2	21.1
159460 2000 KP_{66}	16.2	X	356.79874	117.46364	184.61501	23.81006	0.2379880	0.28422824	2.2909973	21	7 28.1	18.3
159461 2000 OR	16.8	X	301.78609	168.82753	118.34047	6.18050	0.2369243	0.27346171	2.3507424	21	3 14.5	20.0
159462 2000 OO_{3}	16.7	X	347.48409	58.05123	232.35001	2.30230	0.2465947	0.27920525	2.3183926	21	6 7.7	17.7
159463 2000 PM_{7}	16.2	X	269.04361	231.95379	89.65201	7.95144	0.3385863	0.26968720	2.3726253	21	3 18.9	20.4
159464 2000 PP_{23}	16.9	X	246.07814	26.05069	290.26287	1.52435	0.2253894	0.26727835	2.3868595	21	2 25.2	20.7
159465 2000 QJ_{2}	15.0	X	314.42530	111.35289	284.65487	22.14939	0.2938909	0.28124345	2.3071780	21	8 23.9	17.3
159466 2000 QB_{10}	15.8	X	341.55529	52.84708	326.87627	8.67446	0.1834032	0.28711486	2.2756157	21	11 3.2	17.6
159467 2000 QK_{25}	18.2	X	177.98379	240.39345	138.80100	6.13688	0.2827270	0.40493691	1.8094412	21	3 11.7	20.6
159468 2000 QG_{107}	16.3	X	203.48527	132.68063	190.94954	4.17788	0.1316522	0.26261417	2.4150379	21	1 28.9	20.0
159469 2000 QZ_{117}	15.9	X	223.54450	109.12537	269.52128	4.93675	0.1269603	0.26932787	2.3747352	21	4 27.5	19.4
159470 2000 QW_{119}	16.3	X	269.59188	82.71508	259.71484	3.36042	0.1869617	0.27123832	2.3635712	21	4 23.4	19.8
159471 2000 QH_{122}	16.0	X	292.02526	165.96831	196.19001	9.96132	0.2117332	0.27550633	2.3390975	21	6 15.8	18.9
159472 2000 QA_{176}	16.4	X	329.42443	60.34072	234.08806	3.56008	0.2458874	0.27586955	2.3370439	21	4 30.3	18.4
159473 2000 RB	15.8	X	323.05644	137.80589	194.08929	22.80437	0.2605352	0.28139083	2.3063723	21	6 14.1	18.5
159474 2000 RU_{3}	15.8	X	245.50198	139.94546	174.96762	14.17896	0.2609512	0.26500132	2.4005128	21	2 20.6	20.1
159475 2000 RU_{67}	15.5	X	330.36473	223.63897	187.56577	12.49621	0.1725234	0.23551064	2.5969427	21	11 18.9	18.1
159476 2000 RH_{79}	14.6	X	325.47227	78.61237	297.93986	22.11929	0.2602356	0.27797273	2.3252407	21	8 27.8	16.6
159477 2000 SE	16.5	X	231.80335	135.88984	210.94709	6.54510	0.3608242	0.26742333	2.3859968	21	3 17.6	21.0
159478 2000 SZ_{17}	16.0	X	241.70742	61.30238	217.35889	6.98790	0.1699373	0.26036003	2.4289570	21	1 9.3	20.0
159479 2000 SY_{33}	16.9	X	300.76786	187.72487	114.83268	3.38018	0.1718257	0.27111101	2.3643111	21	4 12.2	19.8
159480 2000 SR_{66}	16.7	X	201.04935	207.64853	132.12838	2.88138	0.2160903	0.26116379	2.4239710	21	2 19.3	20.7
159481 2000 SX_{147}	16.7	X	151.91922	126.20304	209.66327	6.27475	0.2114135	0.25355137	2.4722483	21	1 2.4	20.4
159482 2000 SF_{166}	15.7	X	343.83331	84.52869	237.54464	6.61887	0.2854283	0.27902725	2.3193786	21	7 22.6	16.7
159483 2000 SO_{170}	15.7	X	134.28050	262.72620	24.35938	13.12804	0.1506625	0.24388112	2.5371760	21	—	—
159484 2000 SS_{232}	15.5	X	304.78667	199.56138	210.06357	31.89277	0.1451776	0.23185622	2.6241594	21	9 21.1	19.0
159485 2000 SX_{238}	16.2	X	131.15645	288.92624	137.95176	7.39788	0.2073623	0.25865407	2.4396255	21	4 7.9	19.8
159486 2000 SY_{252}	16.6	X	194.83542	149.92275	165.08226	4.79486	0.1990216	0.25714310	2.4491730	21	1 14.6	20.7
159487 2000 SD_{304}	15.3	X	309.54027	70.65958	240.64324	7.09037	0.2672808	0.27335625	2.3513469	21	4 17.3	18.1
159488 2000 SB_{306}	16.4	X	208.52542	94.83111	224.97024	13.34687	0.2479092	0.26047552	2.4282391	21	1 28.2	20.9
159489 2000 SJ_{334}	16.6	X	210.07908	250.86503	127.57356	2.83341	0.1057050	0.26723293	2.3871300	21	4 16.8	20.0
159490 2000 TM_{29}	16.2	X	306.96521	7.38035	319.91986	7.74775	0.2954482	0.27287432	2.3541146	21	4 29.7	19.2
159491 2000 TZ_{29}	14.7	X	224.84716	224.20648	249.76679	21.01457	0.0537981	0.23083222	2.6319144	21	9 1.4	19.0
159492 2000 TN_{43}	16.3	X	258.55786	194.08565	101.21635	6.34855	0.2333751	0.26513397	2.3997120	21	2 11.9	20.3
159493 2000 UA	14.3	X	290.80098	96.91799	322.40467	21.84427	0.3377620	0.27720452	2.3295347	21	8 15.7	16.4
159494 2000 UT_{10}	15.0	X	318.72849	334.45073	62.80197	14.18529	0.1890747	0.23061719	2.6335502	21	10 7.7	17.8
159495 2000 UV_{16}	17.3	X	296.75590	352.72642	341.67392	4.06613	0.4830325	0.27389215	2.3482788	21	4 5.6	21.3
159496 2000 UV_{17}	15.8	X	25.33759	196.29266	197.85303	14.62103	0.1258022	0.24067206	2.5596795	21	—	—
159497 2000 UV_{23}	16.2	X	329.97540	254.65836	158.17766	4.97797	0.1819021	0.23513575	2.5997022	21	11 19.9	18.6
159498 2000 UJ_{26}	15.8	X	233.55394	254.49846	77.76870	9.43313	0.2403418	0.26256966	2.4153108	21	3 11.8	20.1
159499 2000 UH_{38}	15.8	X	52.35373	126.68039	244.40548	4.47733	0.1885583	0.24220790	2.5488475	21	—	—
159500 2000 UR_{46}	15.3	X	246.98291	214.65552	231.00869	21.17123	0.0417199	0.22749203	2.6576141	21	8 26.4	19.4
159501 2000 UB_{54}	16.3	X	276.39632	149.69318	181.51389	4.26633	0.2630291	0.26844684	2.3799282	21	4 9.2	19.8
159502 2000 WW_{31}	15.5	X	72.68638	274.05565	90.99200	10.34910	0.1944968	0.24308447	2.5427163	21	—	—
159503 2000 WQ_{44}	16.4	X	325.64659	169.45364	206.52705	2.66564	0.1529886	0.23033279	2.6357176	21	9 13.5	18.9
159504 2000 WO_{67}	16.9	X	187.45241	237.76083	107.60403	9.69089	0.6172715	0.25946325	2.4345507	21	3 1.0	22.4
159505 2000 WP_{77}	15.9	X	126.76911	23.11102	301.38287	3.93670	0.1827060	0.24601814	2.5224620	21	—	—
159506 2000 WU_{108}	15.9	X	223.95494	336.03496	338.17557	5.45074	0.1744102	0.25672130	2.4518550	21	2 8.2	19.8
159507 2000 WT_{151}	15.8	X	289.92815	281.19086	122.11293	16.43129	0.1625513	0.22794334	2.6541051	21	8 21.1	19.1
159508 2000 XC_{20}	15.5	X	241.55512	23.48762	293.43243	9.41011	0.2183703	0.26004233	2.4309350	21	2 20.5	19.7
159509 2000 XX_{21}	15.4	X	267.60621	248.93680	279.39391	13.58983	0.0468911	0.23932878	2.5692484	21	—	—
159510 2000 XJ_{40}	14.6	X	193.76698	268.99586	283.82303	25.12938	0.1982086	0.23292764	2.6161062	21	10 28.8	19.4
159511 2000 YG_{30}	15.8	X	250.72703	277.42863	154.06290	17.12148	0.2532896	0.22410459	2.6843278	21	7 23.3	20.2
159512 2000 YR_{106}	15.2	X	254.98810	326.76937	66.40614	5.00919	0.2332152	0.22160673	2.7044612	21	6 11.6	19.5
159513 2000 YF_{111}	15.4	X	358.97245	265.57106	105.37397	15.49081	0.2300671	0.23039532	2.6352407	21	11 26.9	18.1
159514 2001 CS_{43}	14.7	X	202.51007	125.92798	85.50523	20.37347	0.1941500	0.17677283	3.1443126	21	11 30.5	19.9
159515 2001 DD_{39}	16.0	X	311.60874	267.04934	186.52362	3.70447	0.1669770	0.23091258	2.6313037	21	12 8.8	18.6
159516 2001 DK_{82}	15.7	X	247.06434	102.62795	163.13656	12.44825	0.0564688	0.19089893	2.9872189	21	1 16.1	20.2
159517 2001 EK_{10}	15.4	X	8.82967	307.00746	158.52489	13.11838	0.2869706	0.19014828	2.9950756	21	—	—
159518 2001 FF_{7}	17.9	X	213.08424	59.37002	190.15044	47.50818	0.4443504	0.32294039	2.1040423	21	—	—
159519 2001 FK_{13}	15.1	X	278.70105	22.75393	157.10035	5.23965	0.0989511	0.18278709	3.0749569	21	—	—
159520 2001 FM_{66}	15.2	X	283.86655	37.42213	120.60440	4.37692	0.1135109	0.18150326	3.0894400	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
159521 2001 FD_{69}	14.7	X	226.31358	72.12266	173.85515	10.99172	0.0823594	0.18256661	3.0774321	21	—	—
159522 2001 FE_{72}	15.0	X	201.00362	185.53582	42.45286	11.52044	0.1875138	0.17626133	3.1503926	21	12 14.7	20.2
159523 2001 FS_{82}	14.5	X	137.65457	291.72083	349.24423	25.47973	0.2561730	0.17334093	3.1856787	21	12 28.4	20.5
159524 2001 FO_{96}	15.0	X	255.85798	82.30201	126.95313	10.36617	0.0486737	0.18266396	3.0763387	21	—	—
159525 2001 FD_{117}	14.8	X	210.83369	46.17821	183.52226	27.62658	0.1382497	0.17807179	3.1290029	21	12 30.0	20.2
159526 2001 FB_{121}	14.9	X	230.18049	55.05597	119.36580	6.44950	0.0967495	0.17477677	3.1682072	21	11 22.6	19.5
159527 2001 FQ_{172}	14.7	X	171.13686	108.76094	147.01587	18.68250	0.2104099	0.17404385	3.1770954	21	12 23.0	20.3
159528 2001 FM_{175}	14.8	X	258.09338	113.84280	77.92959	17.42603	0.1917045	0.18169451	3.0872716	21	—	—
159529 2001 FO_{176}	14.6	X	29.36388	39.61792	51.28357	14.39983	0.0636724	0.18733095	3.0250300	21	—	—
159530 2001 FD_{189}	14.8	X	273.26757	90.33125	87.52403	10.67892	0.1119266	0.18186828	3.0853048	21	—	—
159531 2001 HO_{13}	14.7	X	137.84997	93.32338	199.73032	9.14339	0.0599764	0.17432890	3.1736311	21	—	—
159532 2001 HJ_{18}	15.0	X	249.46681	99.77678	124.90686	26.24296	0.2432043	0.17960240	3.1112002	21	—	—
159533 2001 HH_{31}	17.6	X	79.71414	275.92276	71.62838	12.85149	0.2889219	0.46316911	1.6544094	21	—	—
159534 2001 HM_{42}	15.0	X	241.06614	341.83453	190.84634	8.92223	0.1814925	0.17599338	3.1535895	21	11 21.9	19.8
159535 2001 HA_{57}	15.2	X	77.68956	30.00311	119.11856	16.35185	0.0935118	0.19880410	2.9074962	21	5 12.2	19.4
159536 2001 OD_{73}	16.2	X	324.33849	233.04623	137.83508	7.72365	0.2346688	0.29466902	2.2365558	21	9 7.6	17.2
159537 2001 OT_{84}	15.1	X	197.70574	117.22589	182.20162	15.17049	0.3031164	0.17682356	3.1437111	21	1 10.7	21.1
159538 2001 OE_{87}	16.9	X	81.03621	214.81349	109.11373	5.22844	0.1686579	0.30733176	2.1746920	21	—	—
159539 2001 PL_{3}	14.5	X	155.25303	97.98182	310.87275	23.43191	0.3098274	0.17531242	3.1617505	21	4 4.2	20.6
159540 2001 QL_{55}	16.2	X	171.09012	296.06753	50.78367	3.20170	0.1640342	0.27281675	2.3544458	21	1 28.9	19.6
159541 2001 QU_{236}	17.4	X	264.25343	220.28434	181.15538	4.16819	0.1567344	0.29007553	2.2601052	21	7 12.3	20.3
159542 2001 QN_{294}	17.0	X	216.86348	348.68179	264.07636	3.26260	0.2342139	0.32062129	2.1141760	21	—	—
159543 2001 RW_{63}	17.0	X	260.47200	222.73009	165.59974	4.34528	0.1336730	0.28678830	2.2773429	21	6 22.5	20.0
159544 2001 RP_{76}	16.1	X	26.23718	288.69998	49.58216	6.55477	0.2139850	0.29762382	2.2217282	21	12 7.0	18.5
159545 2001 RL_{121}	17.5	X	25.14193	202.16801	144.50404	3.71068	0.1619151	0.30151777	2.2025584	21	12 10.7	19.9
159546 2001 SK_{26}	17.5	X	5.04908	170.87373	154.93308	1.42330	0.0814406	0.29483946	2.2356938	21	9 22.5	19.7
159547 2001 SW_{65}	17.3	X	27.75434	175.89986	163.95771	6.41664	0.2395182	0.29949932	2.2124434	21	12 16.9	19.9
159548 2001 SB_{72}	17.3	X	331.09972	290.50947	69.44285	4.10709	0.2049757	0.29270916	2.2465280	21	9 10.3	18.5
159549 2001 SN_{91}	16.8	X	151.36178	266.72963	199.96975	5.96049	0.0802719	0.28436460	2.2902648	21	6 6.1	19.9
159550 2001 SM_{127}	14.2	X	221.93903	17.23386	296.50669	1.72389	0.1093185	0.12523516	3.9565672	21	2 22.6	20.3
159551 2001 SM_{176}	16.8	X	314.49760	215.05196	156.85523	5.12212	0.1392241	0.29219944	2.2491399	21	8 24.9	18.4
159552 2001 SK_{232}	17.2	X	352.88114	185.88252	157.61651	0.98546	0.1392838	0.29459620	2.2369243	21	10 2.5	19.0
159553 2001 SB_{236}	16.5	X	107.13847	210.05527	104.34980	3.89252	0.2093283	0.30870199	2.1682520	21	—	—
159554 2001 SZ_{257}	14.4	X	222.49460	239.12128	79.58404	4.31362	0.0839654	0.12563717	3.9481226	21	3 4.2	20.3
159555 2001 SJ_{276}	18.6	X	196.99990	123.48583	214.94717	29.43805	0.2299627	0.47341984	1.6304410	21	1 6.8	21.3
159556 2001 SG_{350}	16.9	X	20.66655	57.50235	229.76015	7.23633	0.1330617	0.29028375	2.2590243	21	8 22.7	19.2
159557 2001 TF_{6}	16.5	X	81.23826	6.42023	145.41562	6.27227	0.0626483	0.27848190	2.3224056	21	5 5.2	19.3
159558 2001 TA_{23}	16.7	X	151.41097	352.11919	74.78867	4.55237	0.1236346	0.27583207	2.3372556	21	4 18.2	19.9
159559 2001 TF_{70}	17.1	X	262.99785	275.68021	111.82814	2.49756	0.1980220	0.28648054	2.2789736	21	6 15.7	20.0
159560 2001 TO_{103}	17.0	X	48.51079	261.60976	42.24767	25.72934	0.4348835	0.29944595	2.2127062	21	12 10.2	20.9
159561 2001 TP_{190}	16.3	X	70.82252	226.34495	242.04531	5.89616	0.0746632	0.26800339	2.3825528	21	2 12.8	19.1
159562 2001 TS_{237}	17.0	X	198.82057	303.42244	111.18962	6.41066	0.1023912	0.28196993	2.3032134	21	5 22.3	20.3
159563 2001 TJ_{240}	16.3	X	76.31043	340.45210	122.33741	13.55628	0.1218520	0.26865554	2.3786955	21	2 25.6	18.9
159564 2001 UJ_{19}	15.9	X	172.06106	341.89618	63.11220	7.48898	0.1068165	0.27813855	2.3243165	21	4 11.6	19.2
159565 2001 UK_{21}	15.9	X	102.57374	218.59104	238.39517	10.73400	0.1570080	0.27387714	2.3483646	21	3 28.4	18.9
159566 2001 UU_{30}	16.7	X	132.00196	270.79532	195.47475	6.45107	0.0664713	0.27927617	2.3180002	21	5 11.1	19.6
159567 2001 US_{64}	15.9	X	347.75676	111.55987	235.97492	9.72368	0.1823216	0.29353837	2.2422952	21	9 25.2	17.6
159568 2001 UE_{107}	16.5	X	347.59522	61.10238	192.97925	6.57897	0.0965481	0.27931306	2.3177961	21	4 27.0	18.7
159569 2001 UD_{163}	16.3	X	322.40051	118.41698	56.60798	6.68293	0.0676044	0.26125274	2.4234207	21	—	—
159570 2001 UD_{190}	16.8	X	107.48953	220.33108	232.08989	5.17122	0.1764944	0.27323948	2.3520168	21	4 3.5	19.8
159571 2001 VM_{4}	16.8	X	111.84958	88.97271	245.46158	2.51685	0.2320192	0.30901126	2.1668051	21	—	—
159572 2001 VO_{4}	16.6	X	120.14938	212.18655	83.68355	6.20390	0.1998319	0.30512172	2.1851804	21	—	—
159573 2001 VB_{8}	16.6	X	16.53000	328.90127	215.63980	3.79877	0.0524223	0.27174932	2.3606073	21	3 5.9	19.4
159574 2001 VE_{8}	16.8	X	308.64236	212.50209	225.54217	5.55775	0.1031407	0.29735390	2.2230725	21	12 2.3	18.6
159575 2001 VZ_{30}	16.4	X	184.80620	336.27249	59.54038	8.63722	0.1221667	0.27366389	2.3495844	21	4 14.4	19.9
159576 2001 VK_{40}	16.6	X	340.21054	290.44023	67.59585	3.84566	0.2314250	0.29226344	2.2488115	21	10 3.9	17.5
159577 2001 VE_{65}	16.5	X	77.48322	67.68120	281.15299	2.81810	0.1654799	0.30494770	2.1860117	21	—	—
159578 2001 VX_{72}	16.9	X	306.65723	303.18077	217.52710	10.54403	0.1612808	0.25895517	2.4377341	21	—	—
159579 2001 VM_{81}	15.7	X	242.68917	185.04881	283.01131	5.06685	0.2590338	0.23538929	2.5978352	21	8 29.8	19.8
159580 2001 VF_{102}	16.4	X	346.48603	27.76558	253.20222	6.54059	0.1107186	0.28231297	2.3013473	21	6 3.8	18.6
159581 2001 WO	17.1	X	359.96304	53.78816	245.24088	2.70312	0.1796027	0.28740393	2.2740897	21	8 2.7	18.7
159582 2001 XE_{31}	15.7	X	202.29295	96.58080	65.12437	28.83532	0.2604278	0.24030522	2.5622839	21	10 18.2	20.5
159583 2001 XK_{50}	16.3	X	15.28877	339.22715	122.80761	0.85545	0.1744861	0.25743560	2.4473175	21	—	—
159584 2001 XT_{63}	16.4	X	28.60081	258.32706	101.94321	7.46051	0.1962779	0.29626200	2.2285313	21	—	—
159585 2001 XK_{65}	15.9	X	359.93335	101.93654	265.41822	4.30453	0.1532685	0.29234717	2.2483821	21	11 24.5	17.8
159586 2001 XF_{67}	15.9	X	63.87897	83.55263	279.57348	6.08593	0.2200193	0.30061102	2.2069854	21	—	—
159587 2001 XG_{73}	16.4	X	322.33419	307.07515	183.65995	1.72464	0.1499302	0.25349191	2.4726348	21	—	—
159588 2001 XC_{106}	16.2	X	314.67257	158.17972	84.11599	3.16412	0.1788593	0.26966834	2.3727359	21	2 6.1	19.1
159589 2001 XK_{115}	15.7	X	260.78612	318.06544	40.93342	6.22077	0.2045434	0.27795381	2.3253462	21	5 4.6	19.2
159590 2001 XX_{121}	16.7	X	342.62653	92.17489	229.68443	9.56634	0.1516054	0.28810890	2.2703785	21	7 27.6	18.7
159591 2001 XD_{146}	16.3	X	28.07258	185.91789	93.10092	8.84839	0.1933496	0.28466974	2.2886278	21	9 12.3	18.5
159592 2001 XT_{164}	16.5	X	19.74308	314.41092	269.86778	4.19044	0.0634775	0.27352120	2.3504015	21	5 8.9	18.9
159593 2001 XR_{167}	16.8	X	49.05494	266.16115	168.00756	1.20009	0.1597801	0.25759046	2.4463365	21	—	—
159594 2001 XP_{192}	15.7	X	197.16939	114.19919	116.65745	3.72860	0.1090519	0.24475226	2.5311521	21	—	—
159595 2001 XF_{211}	16.5	X	261.87884	261.98968	213.69659	4.93820	0.2305439	0.24094143	2.5577714	21	10 6.1	19.8
159596 2001 XT_{212}	16.5	X	210.01009	263.05474	128.00953	5.89054	0.1472080	0.27645647	2.3337350	21	5 2.9	20.1
159597 2001 XV_{217}	16.7	X	133.22087	291.24459	105.30286	3.93581	0.1874587	0.26354199	2.4093663	21	2 25.5	20.0
159598 2001 XJ_{232}	15.8	X	54.10761	213.86374	61.18654	7.91781	0.1650280	0.28826310	2.2695688	21	10 12.8	18.6
159599 2001 XW_{243}	16.3	X	168.75683	179.90450	246.20688	9.57267	0.0222701	0.27747745	2.3280068	21	4 25.6	19.4
159600 2001 XK_{252}	16.4	X	216.77596	356.83729	155.07042	4.09941	0.1265808	0.23794228	2.5792195	21	10 16.0	20.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
159601 2001 YY_{7}	16.0	X	265.43033	14.63123	326.40894	5.31871	0.1312614	0.27830831	2.3233712	21	4 21.4	19.3
159602 2001 YM_{11}	16.2	X	260.63182	349.44049	255.54306	0.34357	0.1440686	0.25498112	2.4629979	21	—	—
159603 2001 YO_{15}	17.2	X	355.50023	310.32583	84.83078	2.69931	0.1741374	0.29692643	2.2252056	21	—	—
159604 2001 YZ_{29}	16.6	X	164.38603	210.32559	288.85217	6.13340	0.0422762	0.28310734	2.2970404	21	8 4.3	19.4
159605 2001 YB_{97}	17.1	X	240.22758	299.84585	143.68004	1.03298	0.0622450	0.28669140	2.2778560	21	8 24.9	19.6
159606 2001 YN_{105}	15.8	X	236.09989	99.45639	256.96872	5.91731	0.2031908	0.27331306	2.3515946	21	4 5.8	19.8
159607 2001 YO_{115}	15.8	X	341.25060	283.94830	82.30143	6.92665	0.2049200	0.28838097	2.2689503	21	10 21.4	17.2
159608 2002 AC_{2}	16.5	X	160.48306	208.13354	102.70057	58.88200	0.3516275	0.45494903	1.6742779	21	—	—
159609 2002 AQ_{3}	17.1	X	181.09684	243.44055	124.23536	40.01568	0.4626965	0.32122850	2.1115109	21	3 20.9	22.0
159610 2002 AJ_{13}	15.4	X	171.28890	13.22710	104.18380	4.45998	0.2534996	0.22361200	2.6882685	21	7 16.3	20.0
159611 2002 AX_{15}	15.4	X	154.88883	83.12685	102.86740	13.56258	0.1584916	0.23097119	2.6308586	21	10 1.3	19.9
159612 2002 AV_{17}	16.1	X	334.72094	235.23054	118.40050	9.15889	0.3138623	0.28772286	2.2724088	21	8 31.6	16.5
159613 2002 AX_{18}	15.1	X	315.50535	338.95739	118.67457	18.69444	0.1102584	0.24298377	2.5434188	21	12 28.1	18.0
159614 2002 AF_{37}	15.5	X	40.52555	299.35378	116.18031	8.66639	0.2445710	0.25447499	2.4662626	21	—	—
159615 2002 AA_{57}	16.2	X	218.21827	34.29294	128.17186	3.77127	0.0794665	0.23796773	2.5790356	21	11 5.7	19.7
159616 2002 AR_{75}	16.7	X	193.76783	264.69642	90.72213	4.77732	0.1358599	0.26644489	2.3918344	21	3 3.0	20.3
159617 2002 AV_{98}	16.3	X	107.51142	327.30754	70.10392	3.44281	0.1876351	0.25974670	2.4327792	21	1 24.9	19.1
159618 2002 AM_{109}	15.9	X	305.22755	193.46641	119.34922	7.77261	0.1316720	0.27245063	2.3565546	21	5 11.3	18.7
159619 2002 AU_{109}	16.2	X	331.43301	330.97223	122.66763	2.97195	0.1490732	0.24621511	2.5211165	21	—	—
159620 2002 AC_{118}	16.1	X	159.04546	318.63645	117.89476	6.62163	0.1027381	0.26892410	2.3771116	21	5 9.2	19.5
159621 2002 AN_{128}	15.3	X	174.37232	85.24101	123.68478	28.73872	0.0849300	0.23666350	2.5885022	21	11 23.6	19.8
159622 2002 AP_{134}	16.0	X	103.72532	290.40967	118.41327	8.63228	0.0931853	0.26157320	2.4214410	21	1 18.7	18.7
159623 2002 AD_{152}	15.9	X	125.03031	234.18436	327.65014	4.90398	0.0908916	0.22788043	2.6545935	21	9 10.3	19.8
159624 2002 AR_{153}	16.3	X	201.20760	299.02130	130.83051	11.33401	0.1693090	0.27452706	2.3446568	21	6 12.9	20.2
159625 2002 AC_{184}	15.8	X	166.35104	250.66398	248.80084	12.39375	0.2190746	0.22728191	2.6592518	21	8 3.6	20.6
159626 2002 BD_{12}	15.8	X	261.87846	293.67625	147.25739	12.81607	0.1663000	0.23235139	2.6204298	21	8 31.2	19.3
159627 2002 BC_{29}	16.7	X	171.25447	67.00322	82.56762	12.18233	0.1884308	0.22918789	2.6444880	21	8 30.1	21.3
159628 2002 BP_{30}	15.6	X	124.90060	193.53986	46.05832	15.36531	0.1403885	0.23403078	2.6078787	21	11 2.3	19.5
159629 Brunszvik	16.8	X	287.60864	231.69114	134.13832	5.65206	0.2625576	0.28091808	2.3089592	21	6 7.1	19.7
159630 2002 CJ_{8}	16.0	X	226.63465	19.68570	92.48610	4.86748	0.1735306	0.23166609	2.6255950	21	9 1.1	20.1
159631 2002 CA_{13}	15.2	X	97.06779	185.89397	355.07339	16.79032	0.1712499	0.22080289	2.7110210	21	7 29.3	19.4
159632 2002 CB_{18}	16.2	X	214.49589	78.24595	74.74914	3.85857	0.0825261	0.23623508	2.5916307	21	10 19.6	19.9
159633 2002 CY_{21}	12.4	X	1.11221	242.08907	137.66025	9.46518	0.0414871	0.08516983	5.1161765	21	10 28.2	19.1
159634 2002 CF_{28}	16.4	X	175.63662	115.58648	15.37948	5.34971	0.2219501	0.22765552	2.6563416	21	8 7.2	21.0
159635 2002 CZ_{46}	18.0	X	318.55986	246.38718	173.37670	16.23964	0.3240197	0.44333668	1.7033881	21	—	—
159636 2002 CU_{48}	15.4	X	67.75325	302.73287	290.53624	12.40843	0.1526240	0.22347127	2.6893970	21	8 18.0	19.1
159637 2002 CT_{54}	16.4	X	169.22587	190.77372	254.52383	2.02067	0.1322398	0.27080809	2.3660738	21	5 31.1	19.9
159638 2002 CO_{87}	16.2	X	339.63774	281.57658	84.85825	3.23798	0.0280884	0.23249700	2.6193356	21	10 1.2	19.5
159639 2002 CJ_{93}	16.3	X	11.61385	275.52420	144.27313	15.38206	0.1193174	0.24530427	2.5273534	21	—	—
159640 2002 CB_{96}	16.1	X	250.33548	310.34990	145.55751	6.51963	0.1924200	0.23257852	2.6187235	21	9 2.2	19.9
159641 2002 CW_{110}	15.7	X	95.28747	65.43805	156.08280	14.81702	0.0568625	0.22407435	2.6845693	21	8 28.4	19.3
159642 2002 CN_{129}	16.1	X	147.66259	65.49132	156.75665	12.14967	0.0246611	0.23444948	2.6047729	21	11 4.2	19.9
159643 2002 CG_{133}	15.3	X	44.70416	262.31405	340.58663	8.12850	0.1069041	0.21885636	2.7270720	21	7 27.2	18.6
159644 2002 CC_{162}	16.1	X	170.52731	291.24282	88.78283	5.69300	0.2397541	0.26513201	2.3997239	21	3 18.5	20.1
159645 2002 CT_{167}	15.5	X	105.69705	141.29866	109.36920	5.87899	0.0672466	0.23121086	2.6290402	21	10 23.0	19.3
159646 2002 CC_{180}	16.2	X	137.79186	157.55797	120.89147	5.26565	0.0996602	0.24212744	2.5494121	21	12 31.1	20.1
159647 2002 CK_{188}	16.5	X	133.22721	261.43483	340.95302	2.38397	0.0375125	0.23586492	2.5943415	21	11 8.5	20.1
159648 2002 CC_{209}	16.5	X	279.66901	311.52259	133.15094	6.57821	0.0930646	0.23474873	2.6025588	21	10 14.4	19.7
159649 2002 CY_{245}	16.1	X	237.53131	268.59731	215.44074	6.71984	0.1501658	0.23500106	2.6006955	21	9 27.4	19.8
159650 2002 CW_{255}	16.5	X	298.25709	280.77571	169.71643	12.89338	0.1610378	0.23890020	2.5723203	21	11 13.9	19.4
159651 2002 CZ_{276}	16.4	X	273.26341	222.14125	125.93516	13.06075	0.2493705	0.27644854	2.3337797	21	5 3.9	20.1
159652 2002 CO_{291}	16.1	X	318.52694	340.69252	90.91082	10.82572	0.0615143	0.23845935	2.5754896	21	11 27.6	19.2
159653 2002 CK_{301}	15.7	X	64.15801	141.82102	176.87853	4.38995	0.1146891	0.23430744	2.6058255	21	12 3.8	19.3
159654 2002 DW_{13}	15.9	X	201.03385	296.73002	197.56872	10.67608	0.2202048	0.23171963	2.6251905	21	8 27.6	20.4
159655 2002 DR_{19}	15.6	X	8.64878	175.90750	76.15245	10.11015	0.1003947	0.21365668	2.7711396	21	6 5.8	18.5
159656 2002 ES_{29}	15.9	X	92.09749	104.03765	159.10642	10.94085	0.0300813	0.22976150	2.6400848	21	10 18.4	19.6
159657 2002 ER_{46}	15.6	X	28.97312	27.55974	187.39902	8.17797	0.2338064	0.21162967	2.7888063	21	6 1.8	18.2
159658 2002 EV_{56}	12.6	X	339.91876	231.73635	164.79898	4.56692	0.0426792	0.08350070	5.1841312	21	10 18.8	19.3
159659 2002 EE_{84}	16.4	X	92.88203	122.87468	121.17606	4.04632	0.0471782	0.22724207	2.6595626	21	9 25.1	20.0
159660 2002 EW_{90}	15.7	X	11.21904	286.48303	6.45352	6.42476	0.0609585	0.22132561	2.7067507	21	8 8.7	19.0
159661 2002 EV_{99}	16.3	X	164.30079	60.86082	96.85619	4.77230	0.1190962	0.22755196	2.6571475	21	8 30.5	20.4
159662 2002 EY_{124}	15.9	X	246.26015	248.54062	88.95174	2.42230	0.1991860	0.26297209	2.4128460	21	3 27.0	19.6
159663 2002 EY_{132}	16.4	X	205.47495	245.69211	238.79335	1.97013	0.0521636	0.22778981	2.6552975	21	9 1.5	20.2
159664 2002 EK_{141}	16.5	X	177.91839	84.87739	67.67733	1.90534	0.0293463	0.22734713	2.6587432	21	9 8.1	20.1
159665 2002 FW_{35}	15.4	X	119.62015	142.13291	152.93733	33.24072	0.2557215	0.23384861	2.6092330	21	—	—
159666 2002 GX_{14}	15.3	X	167.96273	336.01782	9.67840	7.10716	0.1826581	0.25120523	2.4876175	21	1 30.6	19.2
159667 2002 GT_{15}	15.6	X	356.79009	133.21601	185.97303	13.51639	0.0430964	0.22246666	2.6974874	21	8 16.8	19.2
159668 2002 GP_{20}	15.6	X	57.67329	78.77631	220.11864	11.83715	0.3608398	0.22048744	2.7136061	21	11 30.2	19.9
159669 2002 GY_{73}	15.5	X	184.67200	338.55337	106.63351	5.56713	0.0463158	0.21537012	2.7564223	21	6 17.4	19.4
159670 2002 GX_{83}	15.3	X	11.25672	177.87571	64.41110	10.34575	0.1000096	0.21095069	2.7947872	21	5 27.4	18.3
159671 2002 GU_{94}	15.7	X	353.52341	236.06050	14.12034	4.40782	0.0146353	0.21092169	2.7950434	21	5 11.7	19.4
159672 2002 GW_{109}	15.7	X	40.76826	77.17575	126.95288	6.73895	0.0659288	0.21216668	2.7840985	21	5 22.5	19.2
159673 2002 GR_{128}	15.8	X	93.88347	72.36213	283.83035	2.20643	0.0890572	0.24064330	2.5598835	21	—	—
159674 2002 GO_{152}	15.4	X	106.67711	71.44093	103.92698	10.36524	0.0615195	0.21702213	2.7424162	21	7 12.8	19.2
159675 2002 GW_{162}	16.3	X	72.89319	91.68714	61.80526	2.60746	0.1656848	0.21081497	2.7959866	21	5 14.8	19.8
159676 2002 HH_{3}	15.4	X	14.53507	92.52498	182.36916	9.64254	0.1938791	0.21427798	2.7657803	21	7 24.1	18.3
159677 2002 HQ_{11}	19.4	X	254.84795	322.37460	153.18418	6.06276	0.5949163	0.39109998	1.8518715	21	8 23.4	22.4
159678 2002 JA_{17}	15.7	X	97.76876	73.64304	89.60774	6.05290	0.0963776	0.21436716	2.7650132	21	6 20.0	19.5
159679 2002 JX_{24}	15.1	X	68.99415	213.52697	58.36286	14.48991	0.1508038	0.22054727	2.7131154	21	10 18.9	19.0
159680 2002 JY_{60}	16.2	X	10.18650	58.47339	262.02219	2.29872	0.1956379	0.21727963	2.7402490	21	9 23.4	18.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
159681 2002 JB_{76}	15.2	X	323.87355	272.49653	22.93726	12.49454	0.1548822	0.21118821	2.7926913	21	5 11.3	18.6
159682 2002 JD_{122}	15.1	X	108.91851	46.96491	268.59321	10.69381	0.1953200	0.23288959	2.6163911	21	—	—
159683 2002 JJ_{148}	15.8	X	11.39897	85.60839	262.35004	3.16719	0.3026472	0.21965039	2.7204958	21	11 23.2	18.3
159684 2002 KC	15.1	X	46.18693	143.39525	115.74370	16.45758	0.1961549	0.21588767	2.7520152	21	9 7.3	18.7
159685 2002 LP_{3}	16.5	X	348.25022	222.13958	247.59053	24.77247	0.0174951	0.39097081	1.8522794	21	—	—
159686 2002 LB_{6}	16.3	X	275.85989	141.01046	244.74804	24.72326	0.6881602	0.40688935	1.8036482	21	5 5.1	20.3
159687 2002 LG_{53}	14.8	X	132.20365	41.70675	273.34827	15.80053	0.2037436	0.17656342	3.1467982	21	—	—
159688 2002 LE_{58}	15.0	X	165.67647	20.89415	294.61037	7.17995	0.2089747	0.18089427	3.0963700	21	1 3.7	20.1
159689 2002 MZ_{2}	14.8	X	122.38937	111.99728	194.22365	8.78947	0.1690554	0.17359920	3.1825183	21	—	—
159690 2002 NK_{2}	15.4	X	174.48132	135.17574	158.24060	1.54493	0.1727150	0.18015211	3.1048680	21	—	—
159691 2002 NB_{9}	15.0	X	215.00777	131.56878	112.67106	19.03064	0.1588132	0.18123929	3.0924391	21	—	—
159692 2002 OV_{20}	14.9	X	136.03407	194.85228	129.68727	19.79056	0.2067229	0.17633103	3.1495624	21	—	—
159693 2002 PK_{4}	15.3	X	189.58318	93.91045	152.24620	22.12369	0.1156596	0.17601503	3.1533309	21	—	—
159694 2002 PS_{22}	15.8	X	175.43450	336.48366	301.13769	3.44747	0.2254882	0.17798265	3.1300475	21	—	—
159695 2002 PO_{43}	16.8	X	160.27683	1.52766	170.70576	23.92142	0.0495584	0.36605536	1.9354036	21	9 26.1	18.8
159696 2002 PS_{85}	14.6	X	215.30423	110.61949	209.57441	12.24255	0.2716038	0.18911713	3.0059527	21	2 10.5	20.2
159697 2002 PO_{94}	15.5	X	138.67563	122.77556	160.38099	5.00669	0.1298185	0.17258233	3.1950071	21	12 26.2	20.6
159698 2002 PV_{106}	15.0	X	265.05737	346.13346	260.61137	8.05747	0.0472981	0.18319652	3.0703737	21	1 15.4	19.6
159699 2002 PQ_{142}	17.5	X	153.39359	332.18047	151.27654	16.80814	0.7164619	0.44600774	1.6965804	21	7 20.9	21.7
159700 2002 PS_{160}	15.4	X	161.18638	260.59860	339.96135	2.97181	0.1332119	0.17116227	3.2126545	21	11 26.9	20.6
159701 2002 QD_{23}	15.2	X	41.83782	202.29137	142.69169	5.89643	0.1352321	0.16464972	3.2968212	21	11 29.5	19.7
159702 2002 RY_{70}	14.8	X	9.40332	199.37282	270.96600	7.85147	0.0430494	0.17621233	3.1509766	21	—	—
159703 2002 RV_{109}	14.2	X	61.12451	122.11435	301.01129	5.20209	0.1736276	0.17366601	3.1817019	21	1 5.6	18.0
159704 2002 RA_{187}	14.2	X	47.74421	194.99834	233.00850	11.86483	0.2106703	0.17165459	3.2065088	21	—	—
159705 2002 RU_{244}	15.5	X	133.69231	155.75428	130.77461	5.45245	0.1531007	0.17119513	3.2122434	21	12 26.1	20.7
159706 2002 SK_{50}	14.9	X	67.42007	294.35054	116.94551	1.71190	0.2514034	0.17132249	3.2106512	21	1 11.8	18.4
159707 2002 TK_{138}	14.6	X	172.19654	67.26093	256.05433	11.96801	0.2443317	0.17579823	3.1559228	21	1 17.4	20.1
159708 2002 TK_{179}	14.3	X	136.23163	37.15353	313.21159	13.79136	0.2429833	0.17306904	3.1890142	21	1 22.9	19.4
159709 2002 TZ_{191}	14.3	X	168.02167	77.54871	295.49661	10.68829	0.1541329	0.18112305	3.0937620	21	3 3.9	19.5
159710 2002 TQ_{285}	14.0	X	125.00091	96.46498	248.92853	10.45523	0.2177623	0.17067233	3.2187998	21	1 2.3	18.9
159711 2002 TV_{300}	14.2	X	176.40759	62.42613	290.90818	14.52316	0.2436733	0.18014887	3.1049053	21	2 19.5	19.8
159712 2002 VN_{27}	14.2	X	106.68628	256.82743	111.58530	16.59007	0.2333806	0.17205665	3.2015115	21	1 12.4	18.7
159713 2002 VF_{54}	15.2	X	79.78420	47.03280	350.88559	8.51622	0.1430795	0.16981940	3.2295686	21	1 1.5	19.4
159714 2002 VS_{69}	14.3	X	154.18560	308.65580	19.38803	13.87435	0.3243843	0.17861837	3.1226164	21	1 20.2	20.0
159715 2002 VD_{110}	16.1	X	17.53968	56.76950	266.63841	18.19412	0.0553505	0.35665372	1.9692682	21	10 6.6	18.5
159716 2002 YP_{31}	16.1	X	180.35283	338.97521	112.29514	5.41300	0.2559097	0.23711042	2.5852485	21	6 20.9	20.7
159717 2003 AO_{8}	17.5	X	197.80172	115.92882	123.94431	4.85649	0.0864864	0.31203175	2.1527992	21	—	—
159718 2003 AD_{51}	16.3	X	162.22313	258.25006	49.16392	2.72244	0.1198354	0.32001356	2.1168518	21	—	—
159719 2003 AW_{65}	15.6	X	186.36985	36.05436	83.52397	15.29802	0.1523637	0.24116008	2.5562251	21	8 4.5	19.9
159720 2003 AJ_{90}	17.0	X	212.60035	41.09632	51.88822	7.43122	0.1188978	0.29684718	2.2256016	21	7 30.2	20.2
159721 2003 BL_{19}	16.4	X	35.27877	107.18242	79.34441	6.23220	0.1481237	0.27819135	2.3240223	21	4 16.7	18.3
159722 2003 BQ_{27}	16.4	X	9.96165	267.20215	276.58231	3.89658	0.1695945	0.27278221	2.3546445	21	2 10.5	18.5
159723 2003 BV_{43}	16.8	X	65.00120	80.87096	94.46438	3.01326	0.1233744	0.28108842	2.3080263	21	5 21.7	19.1
159724 2003 BQ_{60}	16.4	X	349.11547	93.94490	146.08138	7.82264	0.2502902	0.27718297	2.3296554	21	3 16.6	18.4
159725 2003 BV_{61}	16.1	X	340.15461	281.61194	307.28235	5.02432	0.1815903	0.27379340	2.3488434	21	2 20.6	18.6
159726 2003 BX_{83}	16.7	X	355.12333	103.01722	113.65023	2.78857	0.1863686	0.27449841	2.3448199	21	3 3.2	18.7
159727 2003 BY_{84}	16.8	X	224.54256	40.04159	67.82004	5.67790	0.1030113	0.29780695	2.2208173	21	9 6.4	19.7
159728 2003 BU_{86}	16.3	X	107.68921	290.95155	332.19268	20.53735	0.0904179	0.30023396	2.2088328	21	11 10.5	19.9
159729 2003 DW_{5}	16.6	X	298.88452	100.67570	138.60335	6.62548	0.1228907	0.27059820	2.3672972	21	1 20.2	19.8
159730 2003 DL_{14}	16.8	X	21.12648	117.84778	52.32866	6.87675	0.1423153	0.27243312	2.3566556	21	2 20.9	19.0
159731 2003 DP_{16}	17.3	X	18.36859	14.33518	183.89437	1.89860	0.1723138	0.27658379	2.3330188	21	3 24.7	19.1
159732 2003 DP_{22}	16.1	X	349.01337	68.10230	91.94950	7.22003	0.0955969	0.26346907	2.4098108	21	—	—
159733 2003 EK_{6}	16.4	X	328.41375	161.10193	100.36805	3.15143	0.1962535	0.27603727	2.3360972	21	3 20.8	18.8
159734 2003 EU_{10}	16.1	X	348.65916	348.08727	193.12468	4.78623	0.2048703	0.26822742	2.3812259	21	—	—
159735 2003 EO_{11}	16.9	X	327.94277	112.44565	109.24376	3.31508	0.1444766	0.26985632	2.3716339	21	1 31.8	19.7
159736 2003 ER_{17}	16.1	X	322.86616	167.35102	43.92058	5.98190	0.1776472	0.26718513	2.3874147	21	1 6.9	19.2
159737 2003 EH_{24}	17.0	X	354.56275	107.23969	79.69963	3.11720	0.1517091	0.26978455	2.3720545	21	1 23.3	19.5
159738 2003 EC_{38}	16.4	X	329.91235	319.65383	263.62097	5.97618	0.1592166	0.27063526	2.3670811	21	1 31.8	19.3
159739 2003 EF_{44}	16.6	X	49.44913	314.66203	238.78843	5.59887	0.0626834	0.28025659	2.3125910	21	5 13.1	19.1
159740 2003 EG_{48}	16.4	X	297.28695	325.74447	222.15448	11.99300	0.1611325	0.26082679	2.4260584	21	—	—
159741 2003 EO_{49}	16.5	X	31.60828	305.06583	356.75085	2.05078	0.2432902	0.28805403	2.2706668	21	10 27.1	18.8
159742 2003 EQ_{50}	16.7	X	85.05038	271.54618	203.29509	2.19129	0.1279137	0.27435610	2.3456307	21	3 26.0	19.3
159743 Kluk	16.9	X	322.88867	111.88206	156.41150	2.41128	0.1958468	0.27542315	2.3395684	21	3 20.8	19.4
159744 2003 FS_{15}	17.0	X	320.12719	26.36967	180.59114	2.45342	0.1480666	0.26585676	2.3953606	21	1 1.6	20.1
159745 2003 FX_{18}	16.7	X	30.06070	333.68392	166.90650	4.98466	0.1077575	0.26838318	2.3803045	21	1 22.9	19.1
159746 2003 FD_{31}	16.7	X	102.83654	35.80838	83.74412	6.59289	0.1631081	0.27938251	2.3174119	21	5 6.4	19.5
159747 2003 FW_{42}	16.4	X	305.15110	43.30000	173.67604	2.99577	0.1615364	0.26431024	2.4046953	21	—	—
159748 2003 FN_{52}	16.3	X	283.73943	171.75773	88.92529	6.56807	0.1164535	0.26800091	2.3825674	21	2 2.6	19.7
159749 2003 FV_{53}	16.7	X	273.42154	91.88769	159.24250	1.71578	0.1524628	0.26299590	2.4127004	21	1 6.5	20.2
159750 2003 FV_{57}	16.1	X	317.32758	197.51682	85.76354	5.54630	0.1346483	0.27573805	2.3377869	21	4 15.7	18.8
159751 2003 FH_{62}	16.4	X	32.91326	353.91644	149.23908	9.28925	0.1518820	0.26996379	2.3710044	21	1 29.9	18.4
159752 2003 FS_{68}	16.7	X	306.93669	50.44776	154.24594	5.17177	0.1377175	0.26315301	2.4117400	21	—	—
159753 2003 FC_{70}	17.0	X	61.72967	218.97724	129.73873	6.94173	0.1359758	0.30212197	2.1996210	21	—	—
159754 2003 FB_{92}	16.5	X	323.23485	87.32542	96.68002	3.99408	0.1194246	0.26309900	2.4120701	21	—	—
159755 2003 FJ_{100}	16.2	X	170.98715	216.21580	140.48775	7.96168	0.0638836	0.26604397	2.3942368	21	1 31.7	19.4
159756 2003 FS_{107}	16.1	X	287.09576	77.53342	150.07140	6.59577	0.0631067	0.26171485	2.4205672	21	—	—
159757 2003 FU_{116}	16.5	X	271.19013	56.05105	131.09395	3.42476	0.1344527	0.25464989	2.4651332	21	—	—
159758 2003 FZ_{122}	16.5	X	212.25740	251.16834	30.58914	6.41294	0.1158156	0.25761524	2.4461796	21	—	—
159759 2003 GK	16.0	X	40.60644	90.43277	181.03677	4.93675	0.1873133	0.28578321	2.2826793	21	9 16.6	18.2
159760 2003 GA_{1}	16.4	X	58.42227	30.19381	173.21988	3.53935	0.1880799	0.27944473	2.3170679	21	7 3.6	18.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
159761 2003 GF_{27}	16.4	X	252.91983	32.19491	209.27965	1.74737	0.1467625	0.25873489	2.4391175	21	—	—
159762 2003 GD_{38}	16.5	X	270.23827	165.86971	109.61482	3.67445	0.1422615	0.26603957	2.3942632	21	2 3.7	20.1
159763 2003 GW_{46}	16.2	X	260.69145	258.87132	49.87005	8.18306	0.1994809	0.26893229	2.3770633	21	3 6.6	20.1
159764 2003 GW_{52}	16.4	X	346.92772	164.01872	73.84943	6.10682	0.0595345	0.27612061	2.3356271	21	4 8.4	19.0
159765 2003 HO_{2}	15.8	X	320.36643	148.21041	132.18824	24.71491	0.2690332	0.26996462	2.3709996	21	3 30.3	19.1
159766 2003 HN_{8}	15.9	X	213.52729	134.25717	137.01645	13.86700	0.1066815	0.25502363	2.4627242	21	—	—
159767 2003 HU_{8}	17.2	X	32.84706	58.77620	180.76305	2.32746	0.1343194	0.27890417	2.3200609	21	7 3.3	19.3
159768 2003 HU_{10}	16.7	X	311.32687	51.11462	173.35012	1.82087	0.1512578	0.26666880	2.3904954	21	1 12.9	19.9
159769 2003 HB_{40}	16.7	X	7.71710	12.21860	203.33174	1.98577	0.1720402	0.27098707	2.3650319	21	3 29.5	18.4
159770 2003 HJ_{47}	15.0	X	33.06069	253.62588	76.13340	11.86691	0.3130194	0.23083960	2.6318583	21	12 7.2	18.3
159771 2003 HL_{47}	15.6	X	121.56997	77.97773	215.98180	11.04634	0.2842674	0.24039091	2.5616750	21	—	—
159772 2003 HT_{52}	17.1	X	285.20959	114.41869	73.51198	2.23448	0.1370565	0.25620374	2.4551559	21	—	—
159773 2003 JD_{7}	16.6	X	287.15644	161.99060	109.68865	2.39076	0.1620806	0.26430877	2.4047042	21	2 14.9	20.1
159774 2003 JM_{10}	16.4	X	244.14671	120.49864	118.83476	7.12687	0.0818067	0.25568065	2.4585034	21	—	—
159775 2003 JA_{15}	17.1	X	255.47006	50.22538	215.44827	2.62905	0.1818969	0.26166361	2.4208831	21	1 5.9	21.1
159776 Eduardoröhl	15.8	X	83.66285	164.06303	161.72100	14.06009	0.2123077	0.23877702	2.5732048	21	—	—
159777 2003 KX	15.6	X	114.63063	63.27683	260.52309	11.37221	0.2183211	0.24389136	2.5371050	21	—	—
159778 Bobshelton	16.5	X	222.49630	40.11896	265.65642	1.58817	0.1998952	0.25690207	2.4507047	21	1 26.6	20.4
159779 2003 MM_{3}	15.4	X	305.41892	30.13013	291.57730	23.61737	0.2150072	0.26884782	2.3775612	21	4 28.7	19.0
159780 2003 MV_{6}	15.6	X	337.39492	201.73368	167.33172	14.58712	0.3638089	0.22019901	2.7159753	21	9 19.6	16.5
159781 2003 MZ_{7}	15.5	X	218.32904	136.31054	235.93919	10.81394	0.3549268	0.25914006	2.4365744	21	4 7.9	20.2
159782 2003 MN_{9}	15.5	X	106.55016	106.54690	263.02018	15.53065	0.1851685	0.24209687	2.5496267	21	—	—
159783 2003 MY_{9}	14.9	X	104.88830	239.11991	81.17580	14.20488	0.2919734	0.23811083	2.5780022	21	—	—
159784 2003 MD_{11}	15.3	X	81.41243	33.94007	262.43373	10.92339	0.1806442	0.23204678	2.6227226	21	12 1.2	19.4
159785 2003 ND_{6}	15.9	X	104.65656	87.63826	160.55886	12.87416	0.2392790	0.22957863	2.6414866	21	11 2.6	20.5
159786 2003 NL_{8}	16.0	X	42.07728	129.44704	201.51697	12.25911	0.2601502	0.22766206	2.6562907	21	12 11.6	19.8
159787 2003 OH_{19}	15.8	X	13.00138	127.66514	177.16361	11.44205	0.1534512	0.22065220	2.7122552	21	9 1.4	18.8
159788 2003 OF_{23}	16.3	X	324.59051	134.43502	190.23057	1.49259	0.0730229	0.21652501	2.7466121	21	7 6.3	19.5
159789 2003 PG_{1}	15.4	X	56.30680	327.12989	294.71540	10.98569	0.1548330	0.22372345	2.6873756	21	9 8.9	19.1
159790 2003 PU_{11}	15.6	X	26.19921	135.90764	172.22638	13.35073	0.2381957	0.22381234	2.6866641	21	10 18.3	18.6
159791 2003 QQ_{25}	16.1	X	136.32750	357.39829	282.05345	4.27669	0.2087055	0.23591466	2.5939768	21	12 30.2	20.6
159792 2003 QG_{63}	15.2	X	331.38359	300.79021	12.69950	25.12485	0.1385765	0.21129830	2.7917212	21	6 24.2	19.1
159793 2003 QJ_{64}	15.8	X	110.96093	230.00873	117.02992	5.69341	0.3624584	0.23585537	2.5944116	21	—	—
159794 2003 QQ_{96}	16.1	X	91.83358	252.29438	31.85893	11.73687	0.2935634	0.22957877	2.6414855	21	12 2.9	20.7
159795 2003 QN_{105}	14.1	X	35.14317	246.31531	154.50283	17.78364	0.1793603	0.17473452	3.1687179	21	—	—
159796 2003 QT_{109}	15.1	X	351.12236	59.19369	258.90534	8.00362	0.1865997	0.21795672	2.7345710	21	8 5.3	17.7
159797 2003 QP_{114}	16.4	X	99.55120	228.74975	102.10728	5.42474	0.2742291	0.23510419	2.5999349	21	—	—
159798 2003 RW_{3}	15.5	X	321.88108	116.47872	282.64672	12.65790	0.1452917	0.22113951	2.7082691	21	10 2.2	18.8
159799 Kralice	15.3	X	348.44699	56.17095	306.23112	12.65597	0.0884515	0.21982520	2.7190533	21	9 28.8	18.8
159800 2003 RQ_{15}	14.8	X	45.41842	222.47430	190.50739	11.86551	0.1657825	0.18020674	3.1042405	21	—	—
159801 2003 RT_{16}	14.9	X	350.10357	143.19945	292.22946	8.02403	0.0623042	0.17724724	3.1386994	21	—	—
159802 2003 RN_{17}	14.9	X	56.40874	182.96864	213.64685	13.87616	0.2170341	0.17853869	3.1235454	21	—	—
159803 2003 RW_{21}	15.7	X	188.53634	134.49617	229.08544	1.12159	0.1158684	0.19723775	2.9228690	21	3 12.6	20.3
159804 2003 SN_{13}	15.4	X	83.24259	298.46752	90.00258	1.59048	0.0695615	0.18389985	3.0625402	21	—	—
159805 2003 SG_{29}	14.9	X	134.64961	0.53022	319.68974	8.83578	0.0586132	0.18052971	3.1005371	21	—	—
159806 2003 SG_{51}	14.5	X	203.84390	157.94713	25.15603	16.35124	0.0534923	0.17001284	3.2271185	21	11 3.7	19.3
159807 2003 SB_{52}	15.3	X	142.25093	211.28694	146.27910	5.05906	0.1162358	0.18671044	3.0317286	21	1 20.3	19.8
159808 2003 SL_{71}	15.2	X	351.77324	262.54662	193.52188	21.75211	0.0691166	0.17927749	3.1149581	21	—	—
159809 2003 SQ_{77}	15.0	X	172.23042	84.12618	214.15364	11.71861	0.1139022	0.18485681	3.0519617	21	—	—
159810 2003 SJ_{89}	14.9	X	215.29288	338.76952	263.57109	9.68847	0.0804436	0.18197863	3.0840575	21	—	—
159811 2003 SJ_{148}	15.0	X	163.58656	241.57038	101.14203	12.73007	0.0760157	0.18932076	3.0037968	21	1 21.9	19.5
159812 2003 SG_{186}	15.2	X	78.86477	317.91088	58.03327	5.83393	0.0310060	0.18092568	3.0960115	21	—	—
159813 2003 SY_{194}	14.9	X	146.30916	61.07930	233.24344	15.18484	0.0670529	0.17708480	3.1406185	21	—	—
159814 Saguaro	15.5	X	103.39549	14.85262	288.92732	10.40298	0.2338358	0.23315557	2.6144009	21	—	—
159815 2003 SF_{220}	15.0	X	340.30725	240.26534	196.70903	7.65397	0.1485649	0.17378938	3.1801960	21	12 22.2	18.8
159816 2003 SJ_{232}	14.9	X	195.87633	190.24656	99.03424	3.77460	0.1435051	0.18483021	3.0522545	21	—	—
159817 2003 SE_{234}	15.7	X	331.88780	248.30072	100.31544	4.32406	0.1128676	0.21476954	2.7615586	21	8 19.8	18.8
159818 2003 SM_{264}	15.7	X	213.97396	124.57968	161.24631	8.96023	0.0987594	0.18827912	3.0148655	21	1 5.8	20.6
159819 2003 SX_{284}	16.0	X	51.36556	326.61708	279.59003	6.65383	0.1675726	0.21423453	2.7661543	21	8 15.9	19.4
159820 2003 SY_{286}	15.4	X	101.10334	132.43822	227.70124	7.73701	0.0946596	0.18060652	3.0996579	21	—	—
159821 2003 SS_{294}	15.1	X	166.70067	180.61841	181.11728	7.19269	0.2799168	0.18913824	3.0057290	21	2 27.1	20.3
159822 2003 SR_{303}	15.3	X	152.04176	169.96942	139.00793	3.00527	0.0802351	0.18087073	3.0966385	21	—	—
159823 2003 SO_{310}	15.0	X	20.17282	279.80370	122.07049	10.10514	0.0674244	0.17390926	3.1787344	21	12 31.4	19.4
159824 2003 SM_{315}	14.4	X	62.28961	281.74842	72.09593	20.81070	0.0728394	0.17364929	3.1819062	21	12 25.3	19.0
159825 2003 SH_{321}	15.0	X	219.46960	298.63859	220.07352	9.59088	0.0133808	0.17035801	3.2227578	21	10 30.2	19.6
159826 Knapp	15.6	X	143.64497	231.03756	106.26320	7.69108	0.1256081	0.18314504	3.0709490	21	—	—
159827 Keithmullen	15.2	X	132.43706	116.22759	213.08126	4.45806	0.1439235	0.17948844	3.1125170	21	—	—
159828 2003 TS_{12}	15.9	X	70.72923	258.68348	51.48679	4.40853	0.2214348	0.22639931	2.6661586	21	12 10.7	20.0
159829 2003 TV_{57}	14.8	X	217.28437	91.30401	170.09702	11.12757	0.0604783	0.18343547	3.0677068	21	—	—
159830 2003 UL_{63}	15.0	X	125.43611	174.47459	153.26990	11.63307	0.0984969	0.17925167	3.1152573	21	—	—
159831 2003 UF_{64}	15.4	X	325.16375	184.76041	139.59781	13.32980	0.1558802	0.20875438	2.8143557	21	6 27.6	18.8
159832 2003 UQ_{64}	14.5	X	105.37001	275.26240	72.27651	23.36039	0.0718681	0.17711095	3.1403094	21	—	—
159833 2003 UL_{90}	15.0	X	182.32086	181.49778	34.18682	5.09604	0.1137929	0.17149771	3.2084639	21	11 18.3	20.1
159834 2003 UL_{117}	14.9	X	134.54914	94.91520	222.47152	14.87428	0.1105359	0.17678778	3.1441352	21	—	—
159835 2003 UA_{134}	14.7	X	207.72743	23.10132	249.43025	14.16176	0.1620485	0.18409489	3.0603767	21	—	—
159836 2003 UB_{139}	15.0	X	109.52739	194.33033	149.67138	11.31438	0.0615850	0.17930200	3.1146742	21	—	—
159837 2003 UG_{157}	15.3	X	73.47151	263.69430	112.65720	6.04230	0.1551842	0.17645295	3.1481115	21	—	—
159838 2003 UH_{163}	15.2	X	56.64254	211.32377	160.84763	5.81246	0.1385275	0.17300768	3.1897682	21	—	—
159839 2003 UL_{171}	15.5	X	136.44673	194.56968	159.43366	2.26527	0.2247268	0.18340655	3.0680292	21	1 22.6	20.3
159840 2003 UL_{247}	15.3	X	80.71424	229.51317	144.45153	6.20953	0.1364759	0.17755627	3.1350565	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
159841 2003 UR_{263}	14.5	X	148.12805	258.30247	59.84533	16.14691	0.2170993	0.18057745	3.0999905	21	—	—
159842 2003 UF_{282}	15.2	X	149.01899	128.69319	195.14572	11.12547	0.1864304	0.18007282	3.1057794	21	—	—
159843 2003 VA_{6}	14.9	X	66.55897	253.46488	97.32559	13.69989	0.1142332	0.17082820	3.2168416	21	—	—
159844 2003 WA_{12}	15.0	X	123.96796	153.98857	278.17468	9.18184	0.1032238	0.18868842	3.0105040	21	3 24.5	19.6
159845 2003 WB_{49}	14.9	X	158.69833	41.55736	221.71985	14.58309	0.1868265	0.17305867	3.1891417	21	12 19.9	20.4
159846 2003 WB_{65}	15.9	X	236.47069	289.54037	78.34852	3.06305	0.1405635	0.19855497	2.9099277	21	5 3.1	20.5
159847 2003 WG_{85}	14.9	X	110.21224	291.25579	89.51525	17.71167	0.2609233	0.18353123	3.0666396	21	2 4.2	19.5
159848 2003 WS_{153}	14.2	X	90.23398	252.81717	90.84079	26.64906	0.2692995	0.17356841	3.1828947	21	—	—
159849 2003 XM_{6}	14.9	X	277.10090	238.75204	114.27896	13.24718	0.2477266	0.20256301	2.8714149	21	5 17.9	19.4
159850 2003 YC_{35}	14.9	X	168.59863	245.83327	122.92611	10.99505	0.0847615	0.18545100	3.0454392	21	3 2.1	19.6
159851 2003 YE_{111}	14.8	X	157.11324	27.91515	281.25900	4.28528	0.1362695	0.17379590	3.1801166	21	—	—
159852 2003 YF_{143}	14.8	X	16.85111	345.28153	339.38272	10.59679	0.3003140	0.21405206	2.7677261	21	10 25.1	17.7
159853 2004 FK_{4}	17.4	X	69.64381	262.11443	95.05710	24.34549	0.1060673	0.38366412	1.8757225	21	—	—
159854 2004 FT_{15}	16.6	X	85.47007	316.83476	253.10979	18.89225	0.0484140	0.36026236	1.9560958	21	7 26.4	19.0
159855 2004 FD_{147}	16.7	X	345.12683	239.93044	122.29117	23.93109	0.1032197	0.36651584	1.9337821	21	11 12.8	19.0
159856 2004 JW_{6}	18.0	X	113.90062	174.53011	143.93769	9.74955	0.4650764	0.31155990	2.1549723	21	—	—
159857 2004 LJ_{1}	15.4	X	332.05038	139.94785	235.57517	23.14373	0.5937807	0.28950355	2.2630811	21	6 26.9*	16.7
159858 2004 LK_{16}	17.4	X	65.36882	57.14439	236.49808	4.38212	0.1443810	0.29982077	2.2108617	21	11 16.9	20.2
159859 2004 LE_{23}	15.7	X	309.98086	241.40266	108.05208	24.98618	0.3011049	0.28693057	2.2765900	21	6 13.3	18.3
159860 2004 PS_{13}	17.1	X	16.92843	193.71861	115.79255	4.26463	0.1419509	0.29268133	2.2466704	21	9 28.9	19.1
159861 2004 PU_{28}	16.6	X	302.30928	191.60603	156.10402	6.64642	0.1504594	0.28451291	2.2894688	21	6 21.3	19.1
159862 2004 PP_{33}	16.2	X	116.65647	80.98608	308.82264	2.83966	0.0737294	0.26073037	2.4266565	21	1 9.0	19.0
159863 2004 PD_{50}	16.6	X	343.75265	223.18237	126.51372	6.30508	0.2216829	0.29150497	2.2527106	21	9 29.4	17.8
159864 2004 PH_{50}	17.4	X	65.99773	204.68889	112.81877	5.49737	0.2220374	0.30182216	2.2010773	21	12 27.6	20.6
159865 Silvialonso	16.0	X	276.31488	37.03736	263.98100	11.11067	0.1967985	0.27331916	2.3515596	21	3 1.4	19.8
159866 2004 PM_{75}	16.6	X	216.39979	118.18931	217.78943	5.34905	0.2382054	0.26738778	2.3862083	21	2 23.8	20.9
159867 2004 PU_{77}	16.9	X	279.57622	169.77564	190.59788	5.37149	0.1733600	0.28323118	2.2963708	21	6 2.3	19.9
159868 2004 PS_{91}	16.7	X	237.22087	176.73727	182.74409	7.77711	0.1262965	0.27569325	2.3380401	21	4 19.2	20.0
159869 2004 PF_{94}	16.9	X	261.82484	208.57271	153.60423	1.08417	0.2098787	0.27903068	2.3193595	21	5 9.8	20.2
159870 2004 PP_{103}	16.2	X	13.76805	17.91334	298.56606	5.45525	0.1299633	0.28753881	2.2733784	21	9 25.0	18.3
159871 2004 QF_{17}	16.8	X	36.19096	46.68117	253.54511	5.29289	0.1691487	0.29388455	2.2405340	21	10 18.6	19.2
159872 2004 RU_{29}	17.0	X	222.29654	297.36910	65.69327	0.31573	0.1729471	0.27348748	2.3505947	21	4 5.7	20.8
159873 2004 RE_{36}	16.9	X	305.34681	200.69622	112.60319	4.10803	0.1330686	0.27971924	2.3155517	21	5 9.7	19.5
159874 2004 RS_{53}	15.8	X	179.44330	19.26117	74.64375	3.07146	0.1996578	0.21793304	2.7347691	21	6 23.3	20.5
159875 2004 RZ_{58}	16.6	X	294.39585	179.73099	136.35734	6.98848	0.1396049	0.27758891	2.3273836	21	4 28.4	19.5
159876 2004 RN_{74}	16.4	X	247.87794	188.61739	89.23046	7.77502	0.1105606	0.26545619	2.3977697	21	1 17.2	19.9
159877 2004 RY_{74}	16.8	X	333.55126	248.80448	56.77858	3.43545	0.1696104	0.28247901	2.3004454	21	6 9.9	18.6
159878 2004 RG_{139}	15.8	X	261.45236	208.50026	243.52667	7.95911	0.0935629	0.23252439	2.6191299	21	9 21.1	19.5
159879 2004 RO_{150}	17.3	X	163.99172	235.04280	135.53140	2.10548	0.1986699	0.26243666	2.4161267	21	2 24.1	21.1
159880 2004 RE_{156}	16.1	X	253.64412	4.04343	317.27237	6.76198	0.1325084	0.27199317	2.3591962	21	3 13.7	19.7
159881 2004 RL_{254}	16.4	X	272.85636	202.84373	92.43805	7.30458	0.1153562	0.27155403	2.3617389	21	3 8.8	19.7
159882 2004 RQ_{289}	16.6	X	79.58410	197.01724	131.06463	9.43758	0.2654695	0.30125399	2.2038440	21	—	—
159883 2004 RA_{310}	15.8	X	247.44866	176.92013	223.93616	13.55500	0.1379208	0.21714938	2.7413448	21	6 23.1	20.1
159884 2004 RU_{310}	16.9	X	318.91226	305.81930	352.23030	3.42041	0.2442900	0.27916198	2.3186322	21	4 16.1	19.2
159885 2004 SK_{16}	16.5	X	283.57633	236.13888	85.09659	6.88830	0.1382411	0.27647486	2.3336315	21	4 21.5	19.6
159886 2004 SP_{33}	14.3	X	278.29484	303.98714	68.08142	9.19692	0.0687137	0.16082694	3.3488589	21	7 4.7	19.1
159887 2004 SF_{55}	15.1	X	308.85352	249.73123	105.46225	14.25124	0.2167340	0.22061615	2.7125506	21	7 2.9	18.2
159888 2004 SL_{59}	15.5	X	260.31006	291.56593	102.80735	10.72274	0.1981904	0.21812171	2.7331919	21	6 23.2	19.6
159889 2004 TR_{14}	16.0	X	94.63284	92.62144	54.91133	40.01959	0.2308780	0.43642044	1.7213374	21	5 27.6	17.4
159890 2004 TP_{15}	17.1	X	25.32360	4.55348	302.66900	2.19539	0.2292559	0.28803910	2.2707453	21	10 21.6	19.3
159891 2004 TD_{59}	16.2	X	192.43884	276.50802	132.04408	0.75870	0.0717866	0.21320119	2.7750851	21	5 9.9	20.2
159892 2004 TC_{66}	16.5	X	343.25165	279.66979	126.64201	4.49318	0.2757481	0.23506133	2.6002509	21	12 17.9	18.4
159893 2004 TB_{77}	16.9	X	303.06058	33.12884	240.73572	2.15895	0.2152050	0.27310548	2.3527861	21	2 25.8	20.0
159894 2004 TO_{77}	16.5	X	322.66108	187.04599	185.95584	1.71839	0.0813941	0.22600120	2.6692887	21	9 9.3	19.6
159895 2004 TA_{101}	17.3	X	199.70451	167.73281	157.62050	1.46558	0.1263693	0.26136798	2.4227083	21	1 28.3	20.8
159896 2004 TG_{119}	16.8	X	164.53800	223.47516	137.81110	7.32655	0.1272308	0.26131169	2.4230562	21	2 6.7	20.1
159897 2004 TS_{130}	17.1	X	269.87620	222.16972	81.46935	3.19811	0.1955325	0.27086619	2.3657355	21	3 6.4	20.8
159898 2004 TO_{216}	16.8	X	125.54279	11.65824	291.09602	2.43178	0.2711755	0.30581568	2.1818734	21	—	—
159899 2004 TB_{282}	15.4	X	229.81788	163.64919	238.26100	8.50162	0.0504096	0.21457681	2.7632119	21	6 14.5	19.4
159900 2004 TF_{283}	15.8	X	211.23848	346.80177	57.00539	8.01580	0.0964232	0.21239485	2.7821042	21	5 23.2	20.1
159901 2004 TD_{345}	16.3	X	287.43982	198.23714	207.49664	4.52968	0.2731817	0.22390884	2.6858921	21	7 29.1	19.8
159902 Gladstone	16.9	X	201.31726	238.90410	71.34566	3.65506	0.2346354	0.25693269	2.4505100	21	1 16.7	21.0
159903 2004 VS_{6}	15.6	X	42.69428	231.01994	89.81013	4.23583	0.0821138	0.23031935	2.6358201	21	11 4.5	18.9
159904 2004 VC_{9}	15.0	X	322.93422	334.42408	112.25801	7.13073	0.1263193	0.17579444	3.1559683	21	12 6.9	18.8
159905 2004 VK_{13}	16.2	X	55.79710	180.43783	199.16832	12.78072	0.2748282	0.24214669	2.5492769	21	—	—
159906 2004 VH_{15}	15.9	X	140.90060	320.78088	134.53703	3.33373	0.0401554	0.20835327	2.8179666	21	5 9.6	19.8
159907 2004 VR_{16}	15.8	X	42.10453	208.15967	131.17085	8.44071	0.2018642	0.23492726	2.6012401	21	12 15.7	19.3
159908 2004 VO_{21}	15.3	X	333.02506	26.08662	68.20798	6.45781	0.1644839	0.17923072	3.1155000	21	—	—
159909 2004 VF_{23}	14.9	X	9.22906	18.44797	61.31599	17.65976	0.1157994	0.18145580	3.0899786	21	—	—
159910 2004 VZ_{37}	15.5	X	257.28373	282.10478	256.41616	0.62006	0.1197352	0.17989426	3.1078343	21	12 25.3	19.7
159911 2004 VN_{39}	15.5	X	238.77058	176.27082	59.38018	11.29823	0.0611762	0.18766662	3.0214218	21	—	—
159912 2004 VL_{50}	15.5	X	11.84346	178.03770	118.66532	4.39157	0.0756415	0.22043264	2.7140559	21	8 14.1	18.6
159913 2004 VY_{64}	14.9	X	292.11802	108.95497	77.98030	10.80126	0.0278244	0.18598261	3.0396331	21	—	—
159914 2004 VH_{70}	16.1	X	307.63332	280.54911	96.01323	3.68626	0.1187046	0.22296321	2.6934809	21	8 17.5	19.2
159915 2004 VA_{92}	15.9	X	235.81912	311.16619	210.52097	4.34290	0.1549371	0.17304352	3.1893278	21	11 5.2	20.6
159916 2004 WX_{2}	16.7	X	318.83678	255.54837	122.31759	3.31734	0.1202389	0.22574139	2.6713364	21	9 7.9	19.6
159917 2004 XA_{87}	15.9	X	86.30133	311.70323	44.87747	4.95395	0.2424858	0.24370971	2.5383655	21	—	—
159918 2004 XD_{144}	15.8	X	42.16952	193.06207	178.52719	8.71767	0.2092306	0.23748425	2.5825347	21	—	—
159919 2004 XU_{163}	14.4	X	65.36849	342.25210	68.14477	18.32775	0.1896736	0.18453875	3.0554675	21	—	—
159920 2004 XM_{172}	16.1	X	255.66807	77.21197	290.16070	1.20166	0.1001762	0.21281962	2.7784010	21	5 25.5	20.2

* The additional opposition: 12 27.4, $V = 15.7$

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
159921 2004 XE_{185}	15.7	X	336.00475	210.78437	125.94343	8.48356	0.0305489	0.21421013	2.7663643	21	8 13.6	19.3
159922 2004 YS_{26}	15.1	X	39.57327	262.96093	117.06752	9.20684	0.0994029	0.17188232	3.2036759	21	—	—
159923 2004 YJ_{32}	16.3	X	112.76386	234.20865	118.73657	7.52535	0.5244751	0.24583564	2.5237102	21	1 24.8	20.1
159924 2004 YF_{36}	16.9	X	258.94805	270.99812	49.03849	4.69744	0.2519238	0.26927193	2.3750640	21	3 13.3	20.8
159925 2005 AJ_{32}	15.3	X	33.53118	234.45818	104.82145	12.75564	0.0946099	0.22559019	2.6725299	21	11 19.6	18.9
159926 2005 AT_{65}	15.5	X	276.57747	177.32672	126.72452	12.74774	0.1156760	0.19623285	2.9328391	21	4 4.2	19.9
159927 2005 CL_{57}	15.2	X	74.38052	125.57629	235.35761	3.69046	0.3652610	0.23746668	2.5826622	21	—	—
159928 2005 CV_{69}	18.0	X	199.45411	95.65248	157.47862	27.75245	0.4192569	0.46323316	1.6542569	21	—	—
159929 2005 UK	17.5	X	149.51899	19.45334	222.56264	54.43842	0.4074441	0.38044165	1.8862996	21	11 28.9	21.6
159930 2005 UM_{41}	17.0	X	254.29653	181.75325	222.29365	20.39731	0.0774729	0.35843657	1.9627328	21	7 10.3	19.7
159931 2005 VY_{5}	16.7	X	23.23623	77.63876	266.78414	19.52771	0.0755902	0.37171551	1.9157063	21	12 5.9	18.4
159932 2005 VD_{27}	16.8	X	82.79612	237.91189	200.83109	3.52815	0.2140638	0.27013471	2.3700042	21	2 11.1	19.0
159933 2005 VE_{103}	15.5	X	205.31792	104.35168	27.91117	13.49733	0.2048676	0.23309947	2.6148204	21	9 7.8	19.9
159934 2005 WZ_{6}	16.2	X	93.97563	78.70097	64.86382	10.74780	0.2966792	0.21501053	2.7594947	21	6 16.5	20.3
159935 2005 WY_{59}	14.5	X	218.39166	70.77254	90.93628	12.18643	0.0968762	0.17365527	3.1818332	21	10 29.2	19.4
159936 2005 WH_{71}	16.5	X	84.41596	46.98907	66.01230	13.05402	0.1088258	0.27336160	2.3513162	21	3 28.1	19.4
159937 2005 WK_{97}	14.8	X	267.63239	108.64678	53.75813	3.49798	0.1109945	0.12344731	3.9946767	21	12 8.8	20.4
159938 2005 WP_{100}	16.7	X	34.66975	44.13140	94.43335	2.17462	0.1182751	0.26908167	2.3761835	21	1 29.3	18.8
159939 2005 WT_{104}	16.7	X	147.04209	248.34867	207.39018	5.22428	0.1383842	0.28202273	2.3029260	21	5 22.0	20.0
159940 2005 WD_{116}	16.6	X	152.36093	5.58872	103.10508	6.56927	0.1201035	0.28450959	2.2894866	21	6 12.9	19.9
159941 2005 WV_{178}	17.2	X	177.73611	284.34407	196.73550	6.07237	0.0937861	0.29205051	2.2499044	21	7 26.1	20.4
159942 2005 WK_{185}	15.8	X	277.41175	237.45244	233.32817	11.09818	0.1445794	0.23986978	2.5653839	21	11 5.1	18.7
159943 2005 XR_{13}	16.9	X	332.02913	26.95792	102.51028	7.09930	0.1298792	0.25545011	2.4599823	21	—	—
159944 2005 XY_{16}	16.7	X	248.55311	337.10639	184.00320	1.97777	0.0365674	0.24587786	2.5234213	21	12 18.7	19.9
159945 2005 XQ_{55}	17.2	X	325.39391	72.07455	66.43522	8.03759	0.1265277	0.25625395	2.4548352	21	—	—
159946 2005 YT_{48}	16.9	X	69.41152	161.03879	108.18486	6.59293	0.1515467	0.29175492	2.2514238	21	10 22.9	19.9
159947 2005 YE_{56}	16.3	X	162.55809	298.84422	272.22277	17.42883	0.0740330	0.36779869	1.9292830	21	11 22.5	18.6
159948 2005 YU_{66}	15.5	X	120.58514	181.95621	89.40768	5.75562	0.1744303	0.23791438	2.5794211	21	12 7.7	19.7
159949 2005 YO_{82}	16.6	X	218.23430	156.98911	115.78578	9.71635	0.1804690	0.25597056	2.4566467	21	—	—
159950 2005 YM_{89}	16.2	X	159.52956	358.97265	111.09787	2.59360	0.1976583	0.21907246	2.7252783	21	6 26.4	20.6
159951 2005 YB_{93}	16.6	X	102.04561	14.12621	138.10370	6.40919	0.0600481	0.21467926	2.7623327	21	6 6.5	20.4
159952 2005 YK_{109}	15.7	X	297.79954	180.71994	276.47076	4.51411	0.0281831	0.17807094	3.1290129	21	11 19.2	20.1
159953 2005 YW_{120}	16.2	X	98.56515	156.23358	81.07841	3.85360	0.0489653	0.22808218	2.6530279	21	9 24.0	19.8
159954 2005 YM_{131}	16.8	X	81.29864	279.61795	344.05947	0.16346	0.0542362	0.22927393	2.6438264	21	10 5.4	20.2
159955 2005 YO_{160}	16.5	X	114.11725	329.83799	121.06516	7.39337	0.1130937	0.27343612	2.3508890	21	4 5.9	19.5
159956 2005 YL_{186}	14.7	X	217.56443	134.84272	102.97403	12.22153	0.0676624	0.18327905	3.0694519	21	—	—
159957 2005 YC_{200}	16.8	X	196.61166	288.85721	107.01924	6.71225	0.0789756	0.27707638	2.3302528	21	4 26.2	20.1
159958 2005 YE_{269}	16.1	X	13.44787	78.57192	133.01934	9.05183	0.0820078	0.26899898	2.3766704	21	4 14.8	18.7
159959 2006 AZ_{10}	15.1	X	287.52893	64.96677	89.82649	13.11783	0.1136615	0.18126348	3.0921639	21	—	—
159960 2006 AD_{14}	15.6	X	82.69811	152.64436	128.57250	15.08903	0.0869405	0.23221771	2.6214354	21	11 9.5	19.6
159961 2006 AL_{74}	16.0	X	134.32172	74.92049	25.43088	1.93372	0.1427006	0.21150874	2.7898691	21	5 17.3	20.1
159962 2006 AL_{93}	15.3	X	30.22246	321.87645	133.48505	12.06410	0.0847826	0.19008538	2.9957362	21	—	—
159963 2006 AR_{93}	16.3	X	23.14403	266.41642	120.90420	2.73511	0.1079025	0.24060500	2.5601551	21	—	—
159964 2006 BD_{11}	15.8	X	57.64556	162.25946	125.80688	12.85081	0.1765905	0.22606054	2.6688215	21	10 30.4	19.7
159965 2006 BT_{12}	15.5	X	321.84352	334.23523	149.50639	3.55745	0.1240063	0.18267917	3.0761678	21	—	—
159966 2006 BJ_{26}	15.3	X	264.46093	3.92491	150.27798	5.47971	0.0834412	0.17724592	3.1387150	21	12 10.3	19.7
159967 2006 BZ_{32}	15.7	X	252.52823	233.15498	115.16892	3.17743	0.0710608	0.20706187	2.8296711	21	5 2.5	19.8
159968 2006 BQ_{44}	15.6	X	174.61601	170.90647	157.25110	13.81410	0.0674462	0.18770141	3.0210484	21	1 14.4	20.3
159969 2006 BJ_{62}	14.7	X	259.92837	82.90252	91.55113	17.31235	0.0563423	0.17836172	3.1256112	21	12 31.9	19.1
159970 2006 BJ_{63}	16.0	X	94.10318	156.99416	129.83772	12.93176	0.1137846	0.23555354	2.5966273	21	11 29.9	20.1
159971 2006 BE_{83}	15.7	X	19.15768	351.01932	128.48456	10.49872	0.0590006	0.19265755	2.9690125	21	1 1.6	19.6
159972 2006 BS_{92}	15.4	X	259.61454	5.79133	134.62987	3.45528	0.1390828	0.17458833	3.1704865	21	11 9.9	19.9
159973 2006 BN_{95}	15.8	X	216.30725	144.70390	181.09535	1.77282	0.0831070	0.19588564	2.9363038	21	2 23.1	20.3
159974 Badacsony	17.4	X	212.12818	233.87130	92.30983	3.63365	0.2053834	0.26553249	2.3973104	21	2 11.9	21.4
159975 2006 BP_{148}	15.2	X	100.54068	107.09021	81.77805	13.10074	0.0319126	0.21860650	2.7291495	21	7 19.6	19.0
159976 2006 BC_{154}	16.1	X	338.72980	327.46809	8.63262	2.36606	0.0937584	0.22158457	2.7046415	21	8 14.8	19.0
159977 2006 BK_{164}	15.7	X	274.19111	280.66583	326.79440	0.97648	0.1581612	0.19254165	2.9702038	21	1 14.7	20.4
159978 2006 BY_{164}	16.2	X	284.12370	226.29659	156.50751	2.37766	0.0807518	0.22013492	2.7165024	21	7 25.0	19.6
159979 2006 BY_{174}	16.6	X	218.45398	237.88395	103.22076	8.12182	0.1396081	0.26788150	2.3832754	21	3 10.1	20.3
159980 2006 BP_{179}	17.1	X	347.21655	230.06427	132.53922	7.64477	0.1732992	0.29571706	2.2312683	21	10 29.5	18.8
159981 2006 BZ_{202}	15.8	X	239.00246	276.50070	7.22864	2.79196	0.1989991	0.19188253	2.9770018	21	1 23.6	20.8
159982 2006 BW_{207}	15.8	X	237.95872	194.75498	173.55278	5.64324	0.0332634	0.21034764	2.8001263	21	5 14.8	19.8
159983 2006 BE_{241}	16.6	X	242.92142	168.19643	104.04563	3.51100	0.1673612	0.25541638	2.4601989	21	1 4.7	20.6
159984 2006 CR_{4}	15.4	X	211.40605	103.28556	135.97622	12.47018	0.1311619	0.17931388	3.1145367	21	—	—
159985 2006 CA_{32}	15.9	X	301.32725	161.31548	178.55177	6.13754	0.0407722	0.21597657	2.7512599	21	6 26.7	19.6
159986 2006 CW_{51}	15.9	X	256.54346	314.84502	264.01351	0.38588	0.1325676	0.18532919	3.0467735	21	—	—
159987 2006 CT_{56}	16.5	X	340.75903	66.99285	218.54366	1.47306	0.2302539	0.27309962	2.3528197	21	5 14.6	18.3
159988 2006 DJ_{5}	15.3	X	53.21615	239.98856	344.67018	8.77326	0.1526319	0.21220884	2.7837298	21	7 22.2	18.8
159989 2006 DT_{36}	16.2	X	273.12592	141.85878	178.47704	6.16458	0.1254858	0.26560279	2.3968874	21	4 8.0	19.3
159990 2006 DY_{38}	14.7	X	28.28665	165.54553	158.91210	16.87939	0.0386012	0.16155030	3.3388548	21	10 7.1	19.4
159991 2006 DP_{50}	15.1	X	314.57385	256.81962	127.89769	14.19857	0.0240758	0.21930376	2.7233617	21	9 22.1	18.8
159992 2006 DB_{114}	15.1	X	280.80327	84.26535	62.69564	17.42688	0.0698606	0.17746181	3.1361689	21	12 22.5	19.4
159993 2006 DX_{114}	15.7	X	111.14944	273.01029	81.16383	2.24568	0.1742911	0.17844724	3.1246125	21	—	—
159994 2006 DJ_{140}	15.8	X	105.93033	244.59016	102.20000	5.77206	0.0568885	0.17880478	3.1204458	21	—	—
159995 2006 DD_{172}	14.8	X	162.28504	164.54759	166.33297	17.62219	0.1664770	0.18340209	3.0680789	21	1 13.4	20.0
159996 2006 DN_{204}	14.4	X	189.21558	189.59732	98.15185	13.28916	0.1563649	0.17649442	3.1476183	21	—	—
159997 2006 DU_{211}	16.2	X	296.89100	44.82803	261.65669	1.26457	0.1677419	0.20033652	2.8926505	21	4 18.2	20.0
159998 2006 EA_{18}	16.1	X	57.18179	251.86068	116.10628	2.65617	0.0465589	0.23619527	2.5919219	21	—	—
159999 Michaelgriffin	16.5	X	218.80628	223.17887	149.79009	2.41585	0.0396257	0.20715640	2.8288102	21	4 26.7	20.4
160000 2006 GN_{18}	15.8	X	5.94519	271.59538	185.42803	8.86121	0.1165245	0.18327271	3.0695227	21	—	—