Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
160001 Bakonybél	15.4	X	245.48453	307.08465	191.74529	20.22959	0.1023172	0.17756488	3.1349552	20	11 4.4	20.0
160002 2006 JO_{57}	14.8	X	81.42731	253.51582	118.24721	12.66861	0.0053459	0.18325049	3.0697708	20	—	—
160003 2006 SL_{284}	17.0	X	159.76460	157.86126	174.91821	2.41573	0.1282543	0.31268724	2.1497895	20	—	—
160004 2007 GP_{24}	16.5	X	7.51496	166.00856	140.08581	4.49314	0.0955263	0.24115182	2.5562835	20	9 6.9	19.4
160005 2007 GA_{51}	13.6	X	200.45000	205.99166	65.55448	13.53967	0.1607593	0.12605677	3.9393563	20	—	—
160006 2007 HK_{56}	17.0	X	309.41471	129.53740	198.48175	4.86779	0.0647799	0.31169935	2.1543295	20	7 4.4	19.1
160007 2007 HY_{60}	15.0	X	89.24225	156.25361	107.01047	6.55138	0.1539265	0.17526229	3.1623533	20	10 29.1	19.9
160008 2007 JJ	15.0	X	155.63676	42.87412	192.87149	16.83355	0.1259745	0.18260710	3.0769772	20	11 25.6	20.1
160009 2007 JM_{3}	16.0	X	119.00204	92.75070	146.33730	8.23668	0.0875436	0.25252225	2.4789606	20	11 6.1	19.7
160010 6699 $P–L$	16.4	X	195.76152	129.12462	173.57587	4.77802	0.2570765	0.27165620	2.3611467	20	1 9.1	20.6
160011 1098 $T–2$	15.9	X	264.01098	68.22000	274.14529	2.10410	0.1148168	0.22585439	2.6704453	20	5 8.9	19.7
160012 1110 $T–2$	17.5	X	186.76794	174.90891	184.54144	3.43917	0.2222125	0.28544527	2.2844807	20	3 8.2	21.3
160013 Elbrus	16.1	X	42.38524	149.44547	158.32858	0.07174	0.2911683	0.16864341	3.2445649	20	11 14.3	20.6
160014 3057 $T–2$	16.2	X	164.76903	179.30576	158.69711	2.35848	0.3365233	0.19929712	2.9026992	20	2 6.9	21.5
160015 3079 $T–2$	16.3	X	177.17599	279.51577	24.35694	2.39480	0.2300203	0.24019632	2.5630583	20	—	—
160016 1988 SX_{1}	16.2	X	104.73223	234.96279	114.77002	6.69549	0.2377432	0.25754786	2.4466063	20	—	—
160017 1990 JD_{2}	15.3	X	17.30850	78.38549	164.97732	16.76936	0.1668140	0.23046253	2.6347283	20	6 28.2	18.4
160018 1991 TY_{2}	15.5	X	98.05170	120.50433	248.76285	3.36258	0.1605286	0.18142995	3.0902721	20	—	—
160019 1994 FE	15.6	X	139.04209	62.44032	155.67830	17.61480	0.1188169	0.24322415	2.5417427	20	11 1.7	19.8
160020 1995 FN_{4}	16.9	X	105.98391	353.84168	142.65323	3.88212	0.0807243	0.24295008	2.5436539	20	6 2.6	20.3
160021 1995 FE_{7}	16.0	X	130.17092	174.73027	91.02520	4.66380	0.1575587	0.21699254	2.7426655	20	12 12.2	20.4
160022 1995 YL_{11}	17.2	X	279.68730	355.20321	152.42740	3.21826	0.1173862	0.27678766	2.3318731	20	—	—
160023 1996 VM_{19}	16.5	X	13.88136	343.65527	67.05209	3.43048	0.0369654	0.21111001	2.7933810	20	—	—
160024 1996 VG_{25}	16.2	X	303.71189	66.77352	58.95102	5.30657	0.0211704	0.21132743	2.7914647	20	—	—
160025 1996 XS	15.6	X	74.73390	101.69279	250.58116	6.31243	0.1514718	0.25361280	2.4718490	20	—	—
160026 1997 EH_{25}	17.5	X	94.57064	51.69604	58.03427	5.75128	0.0969876	0.30291347	2.1957876	20	4 11.8	19.9
160027 1997 UN_{1}	17.2	X	220.62255	81.10911	285.81416	4.10392	0.1662260	0.28719035	2.2752170	20	4 15.3	20.7
160028 1998 ET_{5}	16.3	X	238.79552	239.21371	357.85990	5.93674	0.1208468	0.30316092	2.1945926	20	—	—
160029 1998 FM_{101}	15.5	X	78.33452	243.87831	339.33645	10.49622	0.1922649	0.23507230	2.6001700	20	9 6.9	19.3
160030 1998 FM_{130}	15.3	X	156.49525	179.77969	12.52145	15.33455	0.0476253	0.24273467	2.5451585	20	10 12.7	18.8
160031 1998 HD_{48}	15.8	X	38.40780	146.17484	126.35431	4.60727	0.1557085	0.23417997	2.6067710	20	9 18.1	18.9
160032 1998 HM_{96}	15.7	X	101.81818	144.54864	65.60652	7.97859	0.1061233	0.23476598	2.6024313	20	9 11.3	19.6
160033 1998 QU_{81}	14.9	X	245.75136	142.25357	228.39780	16.15435	0.2634771	0.21490103	2.7604319	20	5 10.2	19.5
160034 1998 RS_{39}	15.6	X	285.15939	279.88166	80.92677	3.07356	0.3051887	0.21824301	2.7321790	20	6 1.6	19.2
160035 1998 WQ_{27}	17.2	X	244.65342	108.91775	44.48170	2.78631	0.1422343	0.27182486	2.3601699	20	12 5.3	19.9
160036 1998 XH_{7}	16.7	X	265.66287	25.99772	91.09706	3.35439	0.1340012	0.26879022	2.3779009	20	11 18.9	19.0
160037 1998 YG_{6}	14.5	X	275.19472	259.06765	168.09171	25.79197	0.2592311	0.17155366	3.2077663	20	8 17.2	19.2
160038 1999 CL_{56}	16.1	X	115.90790	117.25159	23.94749	5.52036	0.1773082	0.24495991	2.5297214	20	7 1.8	20.0
160039 1999 JE_{4}	15.7	X	137.49060	255.81143	43.88839	14.40977	0.2113540	0.25899734	2.4374695	20	—	—
160040 1999 NC_{30}	15.4	X	286.69610	252.81887	119.34157	29.97493	0.2964954	0.23195878	2.6233859	20	6 24.6	19.1
160041 1999 NJ_{36}	15.8	X	43.91291	220.17883	111.16603	10.90255	0.1780300	0.24451358	2.5327990	20	12 16.2	19.4
160042 1999 NW_{64}	15.5	X	295.19863	247.46451	120.19421	14.16262	0.2753971	0.23201514	2.6229610	20	6 30.9	18.5
160043 1999 OC_{2}	15.4	X	35.65688	52.56167	263.39825	12.29472	0.2826107	0.23908812	2.5709722	20	11 29.3	18.9
160044 1999 RJ_{37}	15.6	X	53.96276	121.79233	201.29852	14.60608	0.3267691	0.24400845	2.5362933	20	12 30.1	20.0
160045 1999 RU_{183}	16.0	X	16.86410	200.27616	143.94875	4.91979	0.1371457	0.23931096	2.5693760	20	11 20.4	19.0
160046 1999 SG_{23}	15.5	X	354.00944	327.18293	0.69121	15.07050	0.1334075	0.23513832	2.5996832	20	9 17.5	18.2
160047 1999 TF_{181}	16.0	X	8.43899	101.54161	257.61737	3.73238	0.2421814	0.23866567	2.5740052	20	12 12.7	18.8
160048 1999 TF_{185}	15.6	X	18.73157	345.81614	315.29669	12.46593	0.2577491	0.23459776	2.6036752	20	10 4.2	18.6
160049 1999 TF_{189}	15.1	X	315.20934	351.07958	355.62002	15.10359	0.1257741	0.22826503	2.6516109	20	8 5.4	18.3
160050 1999 TW_{242}	16.2	X	355.72587	216.59349	138.71140	6.65540	0.2597559	0.23499317	2.6007537	20	11 17.9	18.6
160051 1999 TB_{260}	15.6	X	10.97549	269.32180	71.05674	12.86610	0.3203411	0.23669206	2.5882939	20	12 3.8	18.4
160052 1999 TQ_{265}	15.4	X	19.27533	88.77420	276.97020	11.65645	0.2208733	0.24125052	2.5555862	20	—	—
160053 1999 TD_{284}	15.7	X	51.30667	174.52593	172.96137	7.32953	0.2404803	0.24194351	2.5507040	20	—	—
160054 1999 TZ_{290}	15.9	X	356.30070	182.75104	168.62102	6.84693	0.2841081	0.23403363	2.6078576	20	11 16.8	18.2
160055 1999 UQ_{44}	15.8	X	36.36022	234.95393	129.20838	4.55235	0.2644000	0.24176106	2.5519871	20	—	—
160056 1999 UF_{52}	15.7	X	338.73846	235.62287	130.88811	6.78757	0.2921476	0.23386501	2.6091109	20	10 28.1	17.4
160057 1999 UZ_{60}	15.0	X	271.26633	105.59001	296.94199	14.42440	0.2738951	0.22643884	2.6658483	20	7 15.3	18.6
160058 1999 VV_{36}	15.8	X	356.03186	261.97552	76.99915	5.57880	0.2885719	0.23204076	2.6227679	20	10 28.3	17.9
160059 1999 VV_{88}	16.1	X	89.35683	126.65620	258.73248	0.87019	0.0529574	0.20146125	2.8818743	20	—	—
160060 1999 VV_{113}	15.2	X	292.31318	65.48564	257.91858	11.21220	0.0617187	0.21922432	2.7240196	20	5 29.8	18.8
160061 1999 VG_{127}	16.1	X	0.94337	229.94831	43.29811	5.44740	0.1283486	0.22669032	2.6638764	20	7 8.2	19.0
160062 1999 VQ_{143}	16.4	X	346.06783	114.58732	270.38485	2.65870	0.2914433	0.23643459	2.5901726	20	12 14.6	18.5
160063 1999 VV_{204}	16.5	X	221.76804	284.33664	186.10142	0.85107	0.1545707	0.17921670	3.1156625	20	8 27.6	21.4
160064 1999 XG_{114}	15.2	X	314.84841	35.37235	311.09767	12.47635	0.1745808	0.22742408	2.6581435	20	7 23.9	17.8
160065 1999 XX_{117}	15.9	X	337.73485	61.10902	299.96076	4.19008	0.2694662	0.23270600	2.6177670	20	10 5.9	17.7
160066 1999 XS_{236}	15.4	X	309.03224	87.79189	269.31600	13.18086	0.1663670	0.22765830	2.6563200	20	7 24.9	18.4
160067 2000 BU_{5}	15.3	X	236.80740	336.10293	48.20559	15.43542	0.2164684	0.21607920	2.7503887	20	5 21.4	19.7
160068 2000 CS_{10}	14.9	X	221.78126	96.66956	291.81711	11.82901	0.2124706	0.21431682	2.7654462	20	5 12.5	19.7
160069 2000 CO_{12}	16.3	X	112.99391	315.39606	174.90281	7.03204	0.0837334	0.25790061	2.4443748	20	6 3.9	19.7
160070 2000 CU_{98}	15.1	X	98.06250	128.84412	142.48797	19.39712	0.0701660	0.17552991	3.1591382	20	11 11.8	20.1
160071 2000 CD_{100}	15.5	X	246.71462	63.89301	326.76537	5.93612	0.3265515	0.21790754	2.7349825	20	5 28.9	20.3
160072 2000 DE_{8}	16.8	X	294.78997	59.34391	144.41600	7.08091	0.0769619	0.28971716	2.2619686	20	—	—
160073 2000 DH_{60}	16.5	X	38.92771	296.08217	156.27357	4.27922	0.0769610	0.28890754	2.2661925	20	—	—
160074 2000 EV_{125}	16.6	X	318.41055	28.57790	149.37126	8.24813	0.0980807	0.28754190	2.2733622	20	—	—
160075 2000 FK_{34}	16.3	X	86.02890	75.05641	95.30437	10.93514	0.1921569	0.25446058	2.4663557	20	7 9.4	19.7
160076 2000 GS_{8}	14.7	X	101.52591	341.95546	3.72966	10.07976	0.0709545	0.18291059	3.0735727	20	—	—
160077 2000 GG_{27}	17.3	X	157.05399	20.57804	176.08894	2.98270	0.1457101	0.26602373	2.3943582	20	10 22.1	20.9
160078 2000 GN_{154}	16.4	X	315.31678	25.07042	231.08246	7.64768	0.1256197	0.29434823	2.2381804	20	3 11.6	19.2
160079 2000 GD_{175}	16.8	X	306.11302	302.45466	181.01279	6.16766	0.0712146	0.27744080	2.3282118	20	—	—
160080 2000 HG_{21}	16.5	X	208.95253	87.87446	94.07914	4.41467	0.1698421	0.27020021	2.3696212	20	11 23.6	19.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
160081 2000 JK_{40}	16.9	X	296.81222	37.64214	235.32412	3.22876	0.1875401	0.28975361	2.2617789	20	3 1.7	20.0
160082 2000 KM_{58}	16.8	X	295.22349	56.66648	111.14909	7.45588	0.1820625	0.28060584	2.3106717	20	—	—
160083 2000 KX_{67}	16.7	X	152.36038	102.42468	112.33118	12.06964	0.2609818	0.26619226	2.3933475	20	11 10.4	21.1
160084 2000 KP_{74}	16.1	X	314.71946	40.32310	131.16227	7.44299	0.2250332	0.23434027	2.6055821	20	—	—
160085 2000 LJ_{6}	15.6	X	276.70273	120.84679	211.60325	22.72437	0.2956467	0.29007928	2.2600857	20	4 14.1	18.8
160086 2000 LT_{23}	16.2	X	241.33708	32.85553	252.75311	11.50661	0.1949201	0.28237676	2.3010007	20	1 20.8	20.1
160087 2000 NT_{26}	16.3	X	265.77499	317.58299	302.35705	22.74845	0.1619124	0.27955753	2.3164446	20	1 18.0	19.7
160088 2000 NG_{27}	16.3	X	247.92307	172.72115	111.72207	6.09891	0.2385507	0.28042986	2.3116383	20	1 26.5	20.1
160089 2000 OP_{7}	15.6	X	224.90847	20.04934	323.63684	13.04678	0.2213356	0.27980242	2.3150928	20	3 15.6	19.6
160090 2000 ON_{38}	16.4	X	141.05658	26.99789	278.38705	10.52185	0.2705216	0.26731111	2.3866645	20	—	—
160091 2000 OL_{67}	6.8	X	70.99003	315.10132	322.45825	1.97388	0.1131950	0.00323076	45.3175349	20	9 24.0	23.3
160092 2000 PL_{6}	14.7	X	124.85387	67.33326	323.00963	21.69168	0.3570919	0.26889825	2.3772639	20	3 1.3	18.7
160093 2000 QW_{44}	16.8	X	194.82815	205.60988	127.86450	3.26640	0.2223391	0.27643480	2.3338570	20	2 13.6	20.6
160094 2000 QR_{67}	16.4	X	171.66496	217.68083	125.17759	7.56884	0.1337054	0.27290369	2.3539457	20	1 31.4	19.9
160095 2000 QU_{101}	16.3	X	232.48927	213.32574	128.25741	5.23803	0.2049230	0.28087230	2.3092100	20	3 27.3	20.0
160096 2000 QJ_{118}	16.0	X	74.50765	139.25349	309.22694	6.53824	0.0628033	0.27273728	2.3549031	20	2 6.2	18.6
160097 2000 QJ_{165}	16.1	X	105.01213	71.88846	310.30279	6.64823	0.1263795	0.26858970	2.3790842	20	1 2.7	18.7
160098 2000 QX_{169}	16.2	X	152.19474	52.96333	308.47711	5.63290	0.1358678	0.27230121	2.3574166	20	2 3.4	19.4
160099 2000 QR_{229}	16.1	X	142.48746	33.92781	0.81589	6.98027	0.1180811	0.27473012	2.3435013	20	3 5.9	19.2
160100 2000 RD	15.5	X	197.19679	59.07812	321.26084	23.52487	0.2694700	0.28027585	2.3124850	20	3 29.5	20.1
160101 2000 RM_{23}	15.9	X	194.04430	127.90248	206.30670	5.08094	0.2606173	0.27495218	2.3422394	20	2 12.7	20.0
160102 2000 RX_{73}	16.3	X	206.03664	110.14620	221.52685	1.32457	0.2439032	0.27459430	2.3442740	20	2 19.5	20.4
160103 2000 RM_{104}	15.8	X	174.73583	88.50065	266.98036	9.25538	0.2579005	0.27337190	2.3512572	20	2 21.2	19.9
160104 2000 SG_{27}	16.1	X	163.45725	25.31552	230.73814	8.05089	0.1922835	0.26204353	2.4185427	20	—	—
160105 Gobi	15.9	X	251.60638	109.48247	243.59577	5.77290	0.1540728	0.28382810	2.2931500	20	5 1.6	19.0
160106 2000 SS_{62}	16.3	X	236.87596	265.52812	356.02515	5.82676	0.1915429	0.27198385	2.3592500	20	—	—
160107 2000 SD_{98}	15.9	X	148.32146	139.37502	215.13463	4.16307	0.2489942	0.27017731	2.3697551	20	1 31.9	19.7
160108 2000 SY_{144}	16.0	X	236.52840	309.03533	0.61658	6.39031	0.2161723	0.27728679	2.3290739	20	2 19.5	19.9
160109 2000 SH_{148}	16.4	X	179.37892	52.10737	279.74400	1.48466	0.2068168	0.27117157	2.3639590	20	1 29.3	20.2
160110 2000 SW_{152}	16.4	X	82.87170	40.96640	349.57445	1.37361	0.1952711	0.26293201	2.4130912	20	—	—
160111 2000 SZ_{160}	14.8	X	3.13627	321.27902	65.86671	15.29127	0.1952626	0.24581457	2.5238544	20	—	—
160112 2000 SP_{189}	16.1	X	185.87586	46.42368	219.91671	9.98103	0.1266587	0.26338230	2.4103401	20	—	—
160113 2000 SK_{216}	16.7	X	224.51287	194.81841	142.08500	6.48593	0.2507113	0.27854902	2.3220325	20	3 12.4	20.6
160114 2000 SX_{216}	16.0	X	135.88688	306.54172	87.72509	6.31325	0.2185852	0.27110923	2.3643214	20	3 11.5	19.6
160115 2000 ST_{237}	16.5	X	218.20646	214.13240	124.26372	6.56056	0.2635493	0.27806021	2.3247530	20	3 9.8	20.6
160116 2000 SR_{241}	16.4	X	174.80878	223.52521	125.14044	5.33516	0.2197214	0.27452212	2.3446849	20	2 16.2	20.2
160117 2000 SY_{253}	16.1	X	22.21437	330.10760	152.23034	6.62223	0.0933112	0.26796101	2.3828039	20	1 1.5	18.7
160118 2000 SU_{268}	16.6	X	205.22367	245.86853	80.68059	3.38904	0.2728260	0.27446340	2.3450193	20	2 14.8	20.7
160119 2000 TM_{31}	16.8	X	180.21756	192.58981	97.81620	4.29425	0.1672114	0.26736522	2.3863425	20	—	—
160120 2000 UU_{7}	16.1	X	147.11451	276.53746	60.67512	1.45780	0.2318416	0.26596049	2.3947378	20	1 10.1	19.7
160121 2000 UZ_{44}	15.6	X	218.61039	108.42276	52.19084	9.28930	0.0528020	0.24690447	2.5164217	20	11 17.4	18.7
160122 2000 UT_{60}	16.4	X	121.96993	98.07895	272.76246	2.39181	0.1907510	0.26642726	2.3919400	20	1 19.9	19.5
160123 2000 UQ_{75}	16.7	X	132.22440	237.05435	126.06027	6.33574	0.2520155	0.26618334	2.3934010	20	1 29.7	20.2
160124 2000 UM_{98}	15.8	X	60.78901	39.20650	21.16779	6.22281	0.0969065	0.26165027	2.4209654	20	—	—
160125 2000 VF_{8}	16.7	X	144.99537	98.60990	208.24159	2.04449	0.2106555	0.26219334	2.4176213	20	—	—
160126 2000 WW_{94}	16.0	X	37.12040	110.12241	292.20083	2.64565	0.1758661	0.25477520	2.4643248	20	—	—
160127 2000 WX_{96}	16.2	X	94.09230	43.00820	329.42109	1.70599	0.2144351	0.25954400	2.4340456	20	—	—
160128 2000 XK_{19}	15.8	X	182.48581	5.99181	345.77123	7.18537	0.2488957	0.27150699	2.3620116	20	2 27.3	19.8
160129 2000 XP_{23}	15.2	X	113.02152	19.00602	330.91514	12.05547	0.1574256	0.25948646	2.4344055	20	—	—
160130 2000 XU_{32}	14.9	X	133.69705	34.22009	321.96756	11.82219	0.3030276	0.26343031	2.4100472	20	1 29.7	18.6
160131 2000 XS_{45}	15.0	X	116.25227	142.54411	320.20854	24.08447	0.2160569	0.27066396	2.3669137	20	5 6.0	19.2
160132 2000 YJ_{7}	14.9	X	205.10585	330.03206	89.91915	11.77660	0.2114539	0.17613989	3.1518405	20	6 8.9	20.3
160133 2000 YZ_{60}	15.5	X	113.90550	95.77232	285.38228	12.58275	0.2593103	0.26125752	2.4233911	20	1 31.5	18.9
160134 2000 YP_{124}	16.7	X	75.12167	250.18818	130.17024	3.53954	0.1838039	0.25828961	2.4419200	20	—	—
160135 2000 YB_{131}	11.9	X	47.85881	359.12471	301.91007	17.33027	0.0494855	0.08412782	5.1583359	20	9 17.9	18.9
160136 2001 BV_{10}	16.7	X	43.51212	102.90944	129.64255	24.41183	0.0596994	0.37645581	1.8995907	20	7 26.5	18.2
160137 2001 BU_{41}	15.0	X	148.68202	85.18924	308.29433	20.48324	0.3291185	0.26604091	2.3942552	20	3 15.9	19.6
160138 2001 CT_{35}	16.1	X	333.40494	265.27409	8.38188	19.34980	0.0604736	0.37092349	1.9184323	20	5 9.8	18.1
160139 2001 CK_{47}	15.4	X	313.34203	340.36669	319.74797	3.54082	0.0315191	0.21879311	2.7275975	20	5 31.8	18.9
160140 2001 DZ_{3}	12.1	X	357.91153	28.40872	339.29045	24.52666	0.0576798	0.08291446	5.2085385	20	9 30.8	18.9
160141 2001 DW_{8}	17.0	X	337.38317	279.13105	338.04162	17.85473	0.0699750	0.37025379	1.9207450	20	4 14.5	19.0
160142 2001 DG_{101}	15.1	X	12.66627	323.15487	48.48716	12.89987	0.2009088	0.24400259	2.5363339	20	12 30.6	18.3
160143 2001 ED_{17}	16.6	X	158.43366	334.48261	108.18810	23.67218	0.0723874	0.37069649	1.9192154	20	5 29.9	19.3
160144 2001 FN_{52}	15.0	X	232.56524	238.62464	355.99039	9.78434	0.1661879	0.19106250	2.9855138	20	—	—
160145 2001 FR_{88}	17.2	X	293.29968	230.52479	35.78004	3.18995	0.1520178	0.25588162	2.4572159	20	2 29.6	20.5
160146 2001 HU_{22}	14.4	X	103.11961	225.16543	70.19181	28.41908	0.1965459	0.17570265	3.1570673	20	12 15.6	19.7
160147 2001 KN_{76}	6.6	X	349.90553	286.58257	327.08374	2.64469	0.0940417	0.00338051	43.9691102	20	5 21.7	22.6
160148 2001 KV_{76}	7.8	X	356.21094	229.12773	39.61538	15.31365	0.5144533	0.00165590	70.7586783	20	6 3.4	23.2
160149 2001 LC_{10}	16.7	X	146.71557	151.61909	152.63606	6.51345	0.1217078	0.28677043	2.2774375	20	—	—
160150 2001 MP_{30}	14.1	X	101.55078	95.78442	299.54254	8.83900	0.1293241	0.18237470	3.0795906	20	1 29.6	18.4
160151 2001 ND_{2}	16.8	X	75.44196	199.13592	148.27385	6.45714	0.1367940	0.27756123	2.3275384	20	—	—
160152 2001 OS_{54}	14.0	X	69.62979	79.69697	331.39080	14.60435	0.2555830	0.17877216	3.1208253	20	1 28.3	17.7
160153 2001 OD_{59}	14.8	X	68.62365	29.76010	301.14127	4.25315	0.1328215	0.17021381	3.2245777	20	12 19.9	19.5
160154 2001 QD_{103}	17.1	X	15.77556	207.91960	107.97752	2.41818	0.1862714	0.26464795	2.4026491	20	10 24.2	19.5
160155 2001 QP_{138}	16.4	X	162.83297	132.87527	235.56118	7.06561	0.1608773	0.28602736	2.2813802	20	2 21.0	19.9
160156 2001 QA_{283}	14.3	X	61.83318	144.31943	261.59608	13.59112	0.2127099	0.17415348	3.1757619	20	—	—
160157 2001 RZ_{19}	15.6	X	232.26705	108.89442	170.24793	8.65420	0.2290366	0.18574753	3.0421971	20	1 16.8	20.9
160158 2001 RS_{121}	17.0	X	44.15559	251.95733	40.77214	2.62907	0.1141684	0.31533915	2.1377198	20	10 31.5	19.3
160159 2001 SU_{79}	16.3	X	309.12040	257.65764	166.88151	12.37275	0.0527169	0.26836865	2.3803905	20	11 25.3	19.3
160160 2001 SL_{116}	16.9	X	71.47850	249.16387	12.12785	3.68287	0.1975901	0.31451489	2.1414531	20	10 30.8	19.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
160161 2001 SF_{283}	15.2	X	136.58099	8.36441	28.34145	15.90243	0.2938534	0.22939738	2.6428778	20	3 26.0	19.7
160162 2001 SX_{345}	17.0	X	354.43160	208.79670	130.03035	7.35052	0.1517258	0.26155009	2.4215836	20	10 15.5	19.4
160163 2001 TB_{209}	17.3	X	32.01617	41.68184	252.82159	1.94042	0.1769871	0.31263143	2.1500454	20	10 25.9	19.6
160164 2001 TW_{252}	13.1	X	107.56533	75.12311	45.87723	9.83120	0.0383527	0.08339069	5.1886893	20	5 11.3	19.9
160165 2001 UR	16.9	X	164.92158	281.98773	149.97959	4.22692	0.1381209	0.24096340	2.5576159	20	5 20.2	21.0
160166 2001 UH_{88}	16.4	X	22.79608	134.09853	48.11078	5.68552	0.0863107	0.23779337	2.5802962	20	4 4.4	19.2
160167 2001 UH_{131}	16.4	X	33.37220	90.14118	61.37537	4.40199	0.0704672	0.23232410	2.6206350	20	3 10.4	19.5
160168 2001 UF_{145}	16.9	X	88.28136	312.95173	144.56540	1.44799	0.1804786	0.23077257	2.6323679	20	4 3.2	20.1
160169 2001 UJ_{149}	16.9	X	154.17942	325.65590	57.52642	4.05576	0.1669659	0.23237942	2.6202191	20	3 12.5	21.0
160170 2001 VM_{40}	16.1	X	354.61228	67.06539	47.05529	4.44091	0.1546424	0.21705641	2.7421275	20	—	—
160171 2001 VJ_{48}	16.1	X	232.34261	294.07553	75.25112	7.11038	0.1085804	0.29227172	2.2487690	20	5 8.6	19.2
160172 2001 VP_{78}	15.8	X	273.81477	261.89892	105.07149	22.23299	0.2087724	0.29985708	2.2106832	20	6 14.1	18.6
160173 2001 VR_{125}	16.2	X	3.94500	63.83974	72.94204	6.67674	0.0543007	0.22419048	2.6836422	20	1 6.3	19.5
160174 2001 WZ_{7}	16.6	X	122.69544	357.40802	105.35228	5.87657	0.2165685	0.23520936	2.5991598	20	5 24.1	20.7
160175 2001 WN_{28}	15.7	X	298.94801	90.74639	83.13027	9.94056	0.2498883	0.21632584	2.7482978	20	—	—
160176 2001 WN_{29}	16.8	X	124.71832	293.55284	150.59205	4.00783	0.2796248	0.23282450	2.6168787	20	5 8.3	21.1
160177 2001 WA_{58}	17.0	X	344.41506	44.57056	231.96427	2.26203	0.1772599	0.30026343	2.2086883	20	6 8.3	18.4
160178 2001 WK_{61}	16.5	X	313.58385	212.58694	47.85167	9.18792	0.1105112	0.29014522	2.2597433	20	3 26.6	19.0
160179 2001 WD_{75}	16.4	X	204.27335	244.73144	67.40822	4.14712	0.2087005	0.23192447	2.6236446	20	1 31.3	21.0
160180 2001 WH_{77}	16.2	X	353.09246	82.36987	65.42073	8.32468	0.0995714	0.22367798	2.6877399	20	—	—
160181 2001 WH_{88}	16.6	X	32.01960	69.20938	8.31249	3.23558	0.0926529	0.21957535	2.7211156	20	—	—
160182 2001 WJ_{102}	16.3	X	113.58126	358.90250	104.59551	5.59802	0.1524637	0.23494600	2.6011018	20	5 9.3	20.1
160183 2001 XA_{73}	15.9	X	67.32803	189.66802	211.74871	4.59406	0.0638515	0.21999728	2.7176353	20	—	—
160184 2001 XM_{114}	16.0	X	336.48589	81.20914	61.63972	7.76070	0.2432944	0.21557508	2.7546748	20	—	—
160185 2001 XF_{117}	15.9	X	140.89000	75.01653	327.84624	6.29891	0.1023119	0.28020407	2.3128800	20	3 9.7	19.1
160186 2001 XB_{123}	16.9	X	129.15366	275.89715	134.89060	3.45797	0.1615175	0.23113367	2.6296255	20	3 20.5	20.8
160187 2001 XU_{165}	16.1	X	5.40097	336.31839	102.03710	5.89762	0.0474473	0.21323038	2.7748318	20	—	—
160188 2001 XA_{187}	16.2	X	253.02150	60.97859	110.56383	4.23698	0.1295807	0.25985911	2.4320776	20	—	—
160189 2001 XS_{194}	16.4	X	38.76349	224.34170	265.48823	2.88117	0.0889860	0.27541029	2.3396413	20	2 7.7	18.8
160190 2001 XA_{204}	16.2	X	96.12447	268.20915	129.32338	5.04745	0.1084145	0.22387211	2.6861858	20	1 15.9	19.5
160191 2001 XK_{212}	15.9	X	106.96783	252.46624	124.81191	5.31049	0.1039615	0.22107302	2.7088121	20	1 4.5	19.4
160192 2001 YU_{11}	16.4	X	288.68873	44.12091	302.43397	3.07176	0.1428132	0.29738693	2.2229079	20	6 14.4	18.7
160193 2001 YH_{48}	16.1	X	283.38603	79.05396	79.48889	10.18618	0.1600482	0.21083569	2.7958034	20	—	—
160194 2001 YK_{67}	15.8	X	223.91636	93.56861	84.79973	12.26701	0.0635289	0.20447825	2.8534568	20	12 6.4	19.9
160195 2001 YF_{73}	16.0	X	295.25497	42.04722	94.09542	9.88050	0.0542229	0.20863350	2.8154427	20	—	—
160196 2001 YT_{84}	17.0	X	57.11736	346.10375	105.06484	9.65200	0.2377263	0.22106495	2.7088781	20	2 16.1	19.6
160197 2001 YP_{139}	15.8	X	52.78297	330.59507	135.76757	15.05695	0.1573899	0.22202493	2.7010641	20	2 16.9	18.6
160198 2001 YH_{151}	16.5	X	281.53795	30.79824	318.57430	7.26877	0.1537563	0.29503366	2.2347126	20	6 4.4	19.1
160199 2002 AJ_{45}	15.8	X	214.30606	223.54478	202.79385	3.11083	0.1250317	0.18661000	3.0328163	20	6 29.3	20.6
160200 2002 AT_{111}	15.9	X	110.87578	75.26792	91.54409	3.27384	0.1444558	0.18175464	3.0865907	20	7 23.3	20.5
160201 2002 AP_{151}	15.4	X	355.48773	302.68865	323.65359	14.12283	0.1713347	0.23098338	2.6307661	20	6 16.9	18.2
160202 2002 BG_{20}	14.8	X	50.86781	28.24367	136.79190	6.11133	0.1314802	0.17051484	3.2207815	20	5 6.1	18.9
160203 2002 BH_{31}	15.8	X	97.15350	161.92575	110.59431	8.21651	0.1163436	0.24562573	2.5251478	20	11 24.5	19.7
160204 2002 CT_{30}	16.6	X	226.47778	359.21122	17.58093	5.24322	0.2008914	0.28864300	2.2675769	20	5 2.7	20.0
160205 2002 CF_{35}	15.1	X	56.14143	239.04122	30.75581	13.91784	0.1758950	0.23894924	2.5719683	20	10 12.8	18.5
160206 2002 CZ_{35}	15.8	X	269.23260	209.88737	168.74675	6.76175	0.1863240	0.29450499	2.2373862	20	6 25.3	18.6
160207 2002 CE_{39}	15.9	X	189.30110	358.47071	138.86015	10.66961	0.0515711	0.19007325	2.9958637	20	9 6.6	20.3
160208 2002 CY_{77}	16.0	X	119.82769	63.54529	128.28814	10.85974	0.0662405	0.18615182	3.0377907	20	8 27.6	20.5
160209 2002 CA_{96}	15.3	X	154.17506	352.71148	149.52255	10.83194	0.0702435	0.18287428	3.0739795	20	7 31.9	19.9
160210 2002 CP_{110}	15.1	X	80.08353	57.09944	86.90430	2.30421	0.1335291	0.17133442	3.2105022	20	5 18.3	19.6
160211 2002 CQ_{196}	15.7	X	116.84881	50.48725	127.16339	9.93600	0.0263604	0.18397299	3.0617285	20	7 31.1	19.9
160212 2002 CM_{198}	15.7	X	240.55516	311.20515	139.18121	9.61464	0.0575578	0.19044655	2.9919476	20	9 7.3	20.0
160213 2002 CS_{252}	15.4	X	96.58785	131.21716	100.68712	10.20326	0.0487473	0.19049459	2.9914445	20	9 21.8	19.8
160214 2002 CD_{257}	14.8	X	343.22838	154.10398	117.91372	11.66398	0.0512955	0.17824233	3.1270067	20	6 6.7	19.1
160215 Haines–Stiles	15.9	X	119.77416	193.83128	128.27819	3.13292	0.1964695	0.25714986	2.4491301	20	—	—
160216 2002 ES_{28}	16.6	X	121.77922	42.23951	159.98340	8.20392	0.1508293	0.23838296	2.5760399	20	9 22.8	20.6
160217 2002 EZ_{39}	15.7	X	194.34428	286.98512	171.62682	10.16177	0.0966181	0.18171094	3.0870855	20	7 19.3	20.7
160218 2002 EQ_{61}	16.0	X	89.90942	155.02286	184.17126	6.11064	0.1478832	0.25512385	2.4620791	20	—	—
160219 2002 EM_{112}	15.9	X	88.03860	72.01543	52.84442	1.82108	0.1486806	0.17016208	3.2252312	20	5 6.1	20.4
160220 2002 FP_{20}	15.7	X	55.46414	163.81666	51.96145	11.10005	0.1821992	0.22837632	2.6507494	20	7 31.9	19.2
160221 2002 FL_{32}	15.7	X	176.52998	344.83764	41.64058	7.80041	0.2317035	0.28005393	2.3137065	20	4 5.6	19.5
160222 2002 GF_{24}	15.3	X	291.18885	274.18360	33.16962	9.56979	0.1303165	0.21857716	2.7293938	20	4 25.8	18.9
160223 2002 GK_{46}	15.1	X	140.49234	327.78361	179.51023	28.05186	0.1491507	0.17906589	3.1174115	20	7 25.6	20.6
160224 2002 GT_{59}	15.5	X	47.40056	4.66670	260.87958	9.96974	0.1210018	0.23338612	2.6126789	20	9 8.2	19.0
160225 2002 GC_{60}	15.6	X	12.04992	99.84322	136.79454	15.03112	0.1377865	0.22030589	2.7150968	20	6 7.6	18.8
160226 2002 GZ_{93}	16.1	X	44.23093	66.76019	224.81738	8.82435	0.1257211	0.23561579	2.5961700	20	10 14.4	19.5
160227 2002 GK_{107}	16.0	X	133.99836	72.01262	109.07010	13.65565	0.2165724	0.18330516	3.0691604	20	9 9.2	21.4
160228 2002 GQ_{112}	15.8	X	115.10768	93.72521	63.39102	9.42165	0.3004414	0.17583744	3.1554537	20	7 29.9	21.3
160229 2002 GN_{144}	15.5	X	138.40569	69.95408	89.09301	12.90367	0.2754537	0.18061478	3.0995634	20	8 18.7	21.1
160230 2002 GY_{181}	15.7	X	336.39153	186.87649	218.31384	8.95295	0.0898494	0.24226861	2.5484216	20	12 3.3	18.6
160231 2002 HA	15.4	X	339.77593	145.57546	153.16028	13.99482	0.2666067	0.22323284	2.6913116	20	6 24.5	17.8
160232 2002 HP_{7}	15.9	X	11.80401	84.97731	184.02847	4.56265	0.1259648	0.22626359	2.6672246	20	7 20.7	18.8
160233 2002 JQ_{14}	15.2	X	89.95002	139.92459	68.82911	18.86366	0.1403865	0.23242307	2.6198910	20	9 5.4	19.4
160234 2002 JM_{23}	14.1	X	122.09902	137.48981	65.93134	9.49435	0.1657672	0.12619162	3.9365494	20	9 17.7	20.3
160235 2002 JP_{37}	15.3	X	309.92476	90.40820	247.10932	11.41471	0.2876994	0.22306314	2.6926764	20	6 9.7	18.3
160236 2002 JH_{56}	15.4	X	327.45593	184.81272	51.37955	8.80468	0.2001303	0.21378293	2.7700484	20	3 9.7	18.8
160237 2002 JX_{100}	15.1	X	342.06328	254.61068	71.50749	28.25044	0.2255654	0.22949825	2.6421034	20	9 9.4	18.3
160238 2002 JG_{111}	15.3	X	310.26273	216.87762	45.23611	14.45265	0.1638456	0.21324884	2.7746717	20	3 25.9	19.0
160239 2002 JR_{118}	15.9	X	359.51366	137.20888	150.28462	13.04378	0.2723735	0.22588588	2.6701971	20	8 4.8	17.8
160240 2002 JO_{119}	15.4	X	328.03537	199.26828	90.80250	13.61493	0.2583756	0.22154718	2.7049458	20	5 15.8	18.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
160241 2002 JO_{145}	15.7	X	270.94237	330.15208	140.63851	15.61525	0.0110044	0.24316694	2.5421413	20	11 30.5	19.3
160242 2002 MX_{1}	14.8	X	177.58139	277.41223	106.53070	27.74308	0.1664878	0.20422798	2.8557875	20	4 17.1	20.1
160243 2002 NM_{32}	14.0	X	25.00928	127.60899	276.42352	20.67458	0.0283167	0.17930709	3.1146153	20	—	—
160244 2002 NN_{35}	15.2	X	96.44722	62.03586	245.02692	8.96715	0.1862262	0.17965523	3.1105903	20	12 25.3	20.3
160245 2002 NZ_{56}	15.4	X	186.33894	310.40486	322.83149	8.69959	0.1055742	0.18900284	3.0071643	20	—	—
160246 2002 OV_{2}	14.4	X	68.55363	92.16583	273.13956	9.33245	0.1601816	0.17961642	3.1110383	20	—	—
160247 2002 OF_{3}	14.5	X	130.23019	112.62335	242.26795	9.75846	0.1442361	0.18755180	3.0226549	20	1 13.7	19.1
160248 2002 ON_{7}	14.8	X	114.40140	94.91142	230.26941	7.99960	0.1381324	0.18299135	3.0726682	20	—	—
160249 2002 PH_{23}	15.1	X	182.34994	116.99192	170.56077	10.56721	0.0578768	0.18952736	3.0016135	20	—	—
160250 2002 PZ_{32}	14.9	X	137.81066	24.79070	307.17549	9.43515	0.1017374	0.18820405	3.0156671	20	—	—
160251 2002 PF_{41}	14.5	X	41.81818	39.28745	324.36451	12.25393	0.1983504	0.17297349	3.1901885	20	—	—
160252 2002 PW_{41}	14.7	X	128.32712	320.17853	359.18106	14.80368	0.2396466	0.18180604	3.0860089	20	—	—
160253 2002 PH_{49}	15.2	X	135.00163	155.83635	204.08178	9.65342	0.0918901	0.19028460	2.9936449	20	1 18.0	19.8
160254 2002 PF_{69}	14.8	X	134.43364	51.70892	307.19016	21.67395	0.2261749	0.18950271	3.0018738	20	1 31.7	19.7
160255 2002 PJ_{131}	14.6	X	119.62300	339.45361	290.82458	22.61517	0.1383033	0.17510327	3.1642677	20	11 30.4	19.9
160256 2002 PD_{149}	6.3	X	230.48577	38.35390	103.41981	4.90591	0.0576045	0.00348563	43.0806010	20	10 2.9	22.8
160257 2002 QW_{24}	14.2	X	51.10437	98.67527	271.44718	25.65955	0.0813775	0.17618339	3.1513217	20	—	—
160258 2002 QB_{25}	16.2	X	280.09576	101.78962	238.26114	19.02034	0.1184525	0.37404347	1.9077494	20	5 25.6	17.7
160259 Mareike	15.2	X	247.25793	271.83966	88.08740	2.05288	0.0682217	0.15227279	3.4731312	20	5 19.7	20.3
160260 2002 QZ_{104}	15.4	X	240.02821	300.57802	287.45219	7.26861	0.1914763	0.19076561	2.9886106	20	—	—
160261 2002 RZ_{5}	15.1	X	79.95478	215.49298	166.53808	10.00462	0.1055543	0.18511912	3.0490780	20	—	—
160262 2002 RO_{8}	14.9	X	78.52402	219.35714	173.75776	11.52953	0.0911423	0.18555031	3.0443524	20	—	—
160263 2002 RE_{13}	13.9	X	338.80216	34.93712	359.69837	18.50315	0.1015459	0.16846176	3.2468968	20	10 26.9	18.3
160264 2002 RF_{64}	14.9	X	100.26860	151.83047	184.30051	13.36639	0.2088867	0.17778485	3.1323687	20	—	—
160265 2002 RH_{75}	14.5	X	33.64201	247.83988	171.31293	12.40912	0.2437518	0.18028677	3.1033218	20	—	—
160266 2002 SO_{15}	14.0	X	54.99701	109.54817	277.72609	15.53542	0.1547423	0.17779567	3.1322417	20	—	—
160267 2002 SY_{18}	14.9	X	91.72774	250.37365	130.79591	16.79630	0.2486525	0.18397089	3.0617517	20	1 17.5	19.0
160268 2002 SP_{20}	15.5	X	42.03888	272.52345	103.91700	2.30699	0.1685044	0.17557859	3.1585543	20	—	—
160269 2002 SW_{51}	14.9	X	87.25724	216.62943	124.51777	12.35996	0.1280959	0.17819923	3.1275109	20	—	—
160270 2002 TU_{59}	16.6	X	275.48170	246.77603	29.27083	21.47895	0.0694473	0.36316095	1.9456734	20	3 2.0	19.3
160271 2002 TN_{60}	16.7	X	241.81853	322.84343	45.35644	21.30641	0.0702515	0.37139305	1.9168150	20	5 17.2	18.7
160272 2002 TW_{64}	15.9	X	243.82514	283.94992	57.03229	23.26917	0.1314569	0.36559744	1.9370193	20	4 16.3	18.7
160273 2002 TS_{110}	14.4	X	24.23169	250.03709	128.25340	17.03004	0.1963474	0.17119220	3.2122800	20	—	—
160274 2002 TX_{118}	14.8	X	139.13225	322.38202	320.77330	9.36153	0.1898303	0.17691838	3.1425877	20	—	—
160275 2002 TH_{130}	15.0	X	97.71675	238.79748	145.05707	11.09529	0.1365681	0.18496007	3.0508257	20	1 11.7	19.3
160276 2002 TH_{216}	15.0	X	47.94489	266.38632	110.36917	11.02201	0.2521181	0.17563188	3.1579153	20	—	—
160277 2002 TX_{222}	14.5	X	63.73661	65.25116	272.70695	17.08520	0.1520573	0.17206481	3.2014104	20	12 25.6	19.3
160278 2002 TQ_{236}	14.0	X	41.80280	160.71355	247.34768	16.07401	0.1992211	0.17700700	3.1415387	20	—	—
160279 2002 TJ_{376}	14.6	X	83.05826	27.41615	294.29615	13.33258	0.2141653	0.17212741	3.2006341	20	—	—
160280 2002 UF_{5}	15.0	X	86.67099	152.48404	142.82606	6.54787	0.1563037	0.17085086	3.2165572	20	11 30.8	20.0
160281 2002 WO	16.5	X	235.37057	139.94416	276.84671	17.52243	0.1095491	0.36915775	1.9245450	20	7 19.1	18.7
160282 2002 YL_{10}	16.6	X	263.18210	47.47962	104.48451	4.20279	0.1460625	0.27363734	2.3497364	20	—	—
160283 2003 AH_{38}	17.0	X	289.09193	344.98321	153.52909	5.46819	0.1654374	0.27508232	2.3415006	20	—	—
160284 2003 AX_{67}	16.8	X	341.61164	347.19473	122.23983	4.02616	0.1789502	0.28035845	2.3120308	20	—	—
160285 2003 AC_{83}	16.3	X	15.98223	115.55692	90.19389	4.28123	0.0634782	0.24171004	2.5523462	20	4 25.5	19.2
160286 2003 BC_{40}	16.5	X	344.91792	120.94145	117.26852	5.81465	0.0462081	0.24177085	2.5519182	20	4 24.0	19.6
160287 2003 BO_{58}	17.6	X	235.20726	10.34327	119.86767	3.17628	0.1760382	0.26433841	2.4045244	20	10 16.6	20.8
160288 2003 BD_{65}	17.1	X	297.09453	356.10392	118.19469	3.17666	0.1202258	0.27312626	2.3526667	20	—	—
160289 2003 BM_{66}	16.3	X	22.77568	42.66993	135.64947	2.97093	0.1355388	0.23541143	2.5976722	20	3 30.9	19.0
160290 2003 BV_{82}	16.5	X	21.33674	101.48918	96.14653	8.54464	0.2010793	0.23825514	2.5769611	20	5 2.6	18.8
160291 2003 CP_{6}	16.7	X	87.14594	130.99210	20.08122	4.11224	0.1649659	0.24297698	2.5434662	20	6 9.4	20.2
160292 2003 DM_{6}	17.4	X	217.96134	5.74110	110.59102	2.59901	0.1371952	0.25886088	2.4383260	20	9 11.4	20.7
160293 2003 DK_{24}	15.6	X	346.67794	111.32274	105.61842	15.52542	0.2425123	0.23265550	2.6181458	20	3 10.4	18.4
160294 2003 EB_{33}	16.4	X	338.51504	273.44740	2.43464	4.86078	0.1717015	0.29601293	2.2297812	20	5 21.5	18.0
160295 2003 EY_{49}	16.4	X	277.25675	270.87380	352.20163	6.22120	0.1688713	0.28342351	2.2953318	20	2 2.0	19.6
160296 2003 FE_{12}	16.2	X	269.44401	303.60924	358.45024	6.77716	0.1352537	0.28788666	2.2715468	20	3 17.1	19.2
160297 2003 FV_{22}	16.4	X	2.20631	63.32486	93.31010	3.99615	0.1523853	0.22710854	2.6606050	20	1 20.5	19.3
160298 2003 FD_{72}	16.2	X	39.31051	11.97557	140.08341	9.94978	0.1848464	0.23159062	2.6261654	20	4 1.2	18.9
160299 2003 FN_{90}	15.5	X	259.79255	295.02143	0.43751	23.92583	0.1952721	0.28363351	2.2941987	20	2 29.5	19.2
160300 2003 FR_{91}	16.6	X	104.56479	24.26963	107.45503	6.26645	0.2002520	0.23927600	2.5696263	20	6 9.7	20.5
160301 2003 FQ_{100}	16.2	X	334.88365	73.07599	91.89664	5.33919	0.1583769	0.22324352	2.6912258	20	—	—
160302 2003 FZ_{101}	15.7	X	320.71471	35.04096	159.27533	13.23363	0.1858915	0.22362852	2.6881361	20	1 1.0	19.5
160303 2003 FE_{111}	16.6	X	250.79236	155.21704	105.34799	7.40863	0.2175294	0.27819728	2.3239894	20	—	—
160304 2003 GW_{1}	16.0	X	133.76270	129.52227	156.64310	8.74067	0.2558767	0.25900024	2.4374513	20	—	—
160305 2003 GK_{2}	15.6	X	24.39071	158.31188	50.02126	2.48239	0.1140602	0.17853185	3.1236251	20	5 16.3	19.4
160306 2003 GE_{5}	16.6	X	242.77364	65.72471	224.81824	1.89117	0.1875851	0.28016609	2.3130890	20	1 31.0	20.4
160307 2003 GA_{6}	16.4	X	235.24438	191.09886	63.10638	3.29902	0.1625080	0.27286535	2.3541662	20	—	—
160308 2003 GX_{12}	15.4	X	0.13613	119.12084	88.38315	1.57975	0.1621710	0.17334481	3.1856311	20	4 4.1	18.9
160309 2003 GT_{16}	15.4	X	266.68404	114.33692	140.20370	15.80311	0.0707515	0.22589400	2.6701331	20	1 26.7	19.2
160310 2003 GA_{32}	17.1	X	256.02025	107.93138	151.08208	2.37914	0.1954974	0.27801835	2.3249864	20	1 4.4	20.7
160311 2003 GA_{37}	15.8	X	19.50519	66.60549	128.15834	12.41963	0.1738853	0.23458880	2.6037415	20	4 24.9	18.5
160312 2003 GT_{39}	16.6	X	19.36288	109.13387	46.36186	7.79888	0.2181388	0.22842353	2.6503841	20	2 23.3	18.9
160313 2003 HX_{28}	16.5	X	301.42413	15.21417	259.46156	3.13089	0.1201210	0.28799241	2.2709907	20	3 21.0	19.3
160314 2003 HZ_{42}	16.5	X	230.72822	99.09510	136.61831	2.53979	0.1563466	0.26895463	2.3769317	20	—	—
160315 2003 HO_{49}	14.9	X	6.38893	75.85884	246.64658	26.27691	0.3434149	0.23610277	2.5925989	20	11 2.9	17.6
160316 2003 HD_{51}	16.1	X	219.82643	125.34165	125.69550	7.02634	0.1076089	0.26834389	2.3805368	20	—	—
160317 2003 JE_{5}	16.5	X	354.44195	108.77735	52.47095	13.68980	0.2088765	0.22373879	2.6872528	20	1 6.5	19.5
160318 2003 JR_{8}	14.9	X	47.40124	150.03068	76.84425	20.17719	0.1788721	0.18011827	3.1052569	20	7 29.3	19.2
160319 2003 JQ_{10}	16.5	X	181.78456	126.13363	162.27331	5.00995	0.2348726	0.26685001	2.3894131	20	—	—
160320 2003 KF_{12}	16.3	X	272.83004	83.64666	106.63552	9.49180	0.2271781	0.21308387	2.7761036	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
160321 2003 KP_{13}	15.1	X	47.93314	147.06575	88.63100	14.38333	0.1136001	0.18316984	3.0706719	20	7 31.4	19.3
160322 2003 LA_{4}	16.1	X	178.56278	347.03202	267.21619	4.30611	0.1668136	0.26097586	2.4251345	20	—	—
160323 2003 MZ_{8}	16.2	X	88.98950	129.35791	140.25641	4.63856	0.1727799	0.24530394	2.5273557	20	11 16.7	20.2
160324 2003 ME_{10}	16.0	X	321.76975	344.09743	293.40382	9.46527	0.2817393	0.22327566	2.6909676	20	3 31.4	19.4
160325 2003 NV_{1}	14.2	X	44.98614	351.58352	292.53303	19.12026	0.1578299	0.17315435	3.1879667	20	9 19.6	18.9
160326 2003 NF_{7}	15.7	X	114.11889	25.31739	325.97448	7.39071	0.2389882	0.25795433	2.4440355	20	—	—
160327 2003 NJ_{10}	16.6	X	309.84923	24.84799	241.94292	5.62144	0.0973612	0.27860537	2.3217194	20	3 26.1	19.3
160328 2003 OG_{4}	16.0	X	0.54618	260.05128	133.50322	7.26907	0.1822535	0.24481602	2.5307126	20	—	—
160329 2003 OC_{31}	16.5	X	25.65934	10.56139	316.76047	9.14856	0.3007464	0.23802078	2.5786524	20	12 3.3	20.0
160330 2003 QN_{42}	15.7	X	324.30315	154.36807	186.64765	10.16713	0.2630796	0.22692929	2.6620059	20	7 20.4	18.1
160331 2003 QS_{57}	15.6	X	98.20666	112.50496	138.45238	12.64618	0.1146361	0.23847708	2.5753620	20	10 31.3	19.7
160332 2003 QU_{60}	15.0	X	294.66937	272.77620	7.80867	11.82561	0.1351232	0.21472144	2.7619709	20	3 26.4	18.6
160333 2003 QC_{79}	15.2	X	38.33548	30.46207	332.98882	4.56108	0.3198158	0.23820822	2.5772995	20	—	—
160334 2003 QH_{109}	15.6	X	340.28017	14.00261	302.27192	13.95748	0.2021486	0.22903639	2.6456541	20	7 29.4	17.9
160335 2003 RK_{3}	15.6	X	317.87522	99.47135	264.97970	10.60813	0.1923944	0.23058104	2.6338254	20	8 18.2	18.5
160336 2003 RW_{4}	15.7	X	351.03959	138.24161	190.45486	13.99472	0.1748676	0.23049407	2.6344879	20	9 10.9	18.2
160337 2003 RF_{18}	15.5	X	52.51576	340.91917	322.92385	12.94186	0.2826552	0.23943668	2.5684765	20	11 30.3	19.6
160338 2003 SR_{52}	15.5	X	306.97398	358.74562	316.54012	4.80964	0.1958575	0.22174098	2.7033695	20	5 18.1	18.8
160339 2003 SY_{66}	15.6	X	251.38050	170.13265	164.13565	2.98931	0.1097302	0.21222691	2.7835717	20	4 16.4	19.7
160340 2003 SB_{100}	15.1	X	294.57542	49.27018	274.35091	15.51683	0.2834599	0.22375969	2.6870854	20	4 23.2	19.0
160341 2003 ST_{103}	15.5	X	240.86170	4.77597	342.32987	3.37974	0.1090521	0.21348567	2.7726192	20	4 18.8	19.7
160342 2003 SW_{103}	15.7	X	251.68053	191.31954	184.48875	5.07197	0.1279844	0.21889696	2.7267347	20	6 6.6	19.7
160343 2003 SP_{139}	15.3	X	261.54476	326.80008	32.30187	14.12694	0.2038596	0.21926449	2.7236869	20	5 14.4	19.4
160344 2003 SG_{145}	15.1	X	239.44349	101.39120	249.89252	4.93353	0.0708895	0.21180978	2.7872251	20	4 26.6	19.2
160345 2003 SJ_{175}	15.9	X	106.30728	39.43147	168.91465	2.91055	0.0289375	0.22906812	2.6454097	20	8 31.4	19.4
160346 2003 SB_{296}	15.4	X	297.62468	339.55061	292.08082	8.09318	0.1057232	0.21159378	2.7891216	20	3 18.6	19.4
160347 2003 TL_{16}	15.4	X	209.82338	112.98220	267.91753	2.65800	0.1081066	0.21080795	2.7960486	20	4 29.2	19.8
160348 2003 TY_{20}	15.7	X	316.61585	189.18906	149.02421	10.20777	0.2081524	0.22396523	2.6854412	20	7 7.9	18.6
160349 2003 UA_{28}	15.5	X	292.59266	327.00587	28.53303	6.66307	0.0514676	0.22284779	2.6944109	20	7 17.1	19.1
160350 2003 UY_{49}	15.2	X	268.17660	260.82710	91.46914	10.19890	0.1575325	0.21698762	2.7427070	20	5 23.7	19.1
160351 2003 UZ_{85}	14.9	X	104.37529	7.87300	13.17439	15.15372	0.0884962	0.19141563	2.9818408	20	1 12.5	19.3
160352 2003 UJ_{138}	15.1	X	76.70368	126.51287	202.99520	9.40649	0.1136567	0.18116844	3.0932452	20	12 26.3	19.9
160353 2003 UV_{162}	15.3	X	251.19847	293.91910	67.08881	6.39351	0.1456517	0.21542594	2.7559461	20	5 15.7	19.3
160354 2003 UO_{198}	15.4	X	256.29363	163.96146	157.49054	4.66150	0.1004556	0.21070355	2.7969722	20	4 7.3	19.5
160355 2003 UT_{226}	13.9	X	48.26995	315.08533	91.23233	29.83276	0.2696067	0.18079531	3.0974997	20	—	—
160356 2003 UU_{278}	15.8	X	47.93084	43.09844	280.62982	3.03512	0.3008460	0.23716814	2.5848290	20	12 23.5	19.8
160357 2003 WF_{117}	15.7	X	259.74216	54.24361	270.91972	8.93057	0.3688896	0.21257086	2.7805683	20	3 15.1	20.8
160358 2003 WE_{159}	14.5	X	295.58902	7.28260	75.45641	24.15640	0.1235212	0.17068456	3.2186460	20	11 5.4	18.9
160359 2003 XV_{6}	14.7	X	113.61163	78.25623	253.15713	20.91115	0.0098537	0.17986469	3.1081748	20	—	—
160360 2003 XU_{12}	14.7	X	263.97011	9.77968	343.58018	16.09684	0.2543500	0.21180022	2.7873090	20	4 29.2	19.4
160361 2003 YD_{66}	15.9	X	16.69265	233.96945	148.03398	6.79615	0.3620188	0.23731487	2.5837635	20	—	—
160362 2003 YP_{90}	14.5	X	58.98701	251.96871	85.56856	27.29481	0.2008589	0.17842941	3.1248206	20	12 26.3	19.3
160363 2003 YP_{107}	14.9	X	301.94616	59.57127	318.92333	10.62287	0.3064747	0.22336393	2.6902585	20	7 23.9	17.6
160364 2004 BW_{115}	15.3	X	331.82997	47.20829	42.64738	5.23283	0.1376597	0.17276060	3.1928088	20	—	—
160365 2004 DC_{66}	17.7	X	258.13719	131.16852	117.62252	2.92142	0.1731135	0.29683979	2.2256385	20	—	—
160366 2004 ER_{16}	16.7	X	244.40628	75.80278	143.65204	6.72102	0.1737983	0.28894415	2.2660011	20	—	—
160367 2004 EN_{37}	13.7	X	59.94391	89.40093	298.34914	23.79659	0.2897517	0.17498484	3.1656952	20	—	—
160368 2004 EY_{42}	16.9	X	216.08439	171.45615	114.10769	3.80435	0.1232911	0.29473277	2.2362332	20	—	—
160369 2004 FW_{34}	17.2	X	295.94753	87.99131	136.84705	4.01192	0.1076846	0.29917140	2.2140597	20	1 7.2	20.0
160370 2004 FK_{36}	16.9	X	148.47682	167.98770	70.66397	3.18307	0.1524135	0.27492438	2.3423972	20	12 5.8	20.6
160371 2004 FG_{47}	17.1	X	219.37954	165.05064	113.97201	5.51139	0.1492446	0.29457892	2.2370118	20	—	—
160372 2004 FC_{51}	16.9	X	200.09704	144.57985	95.18376	4.48122	0.1328675	0.28379985	2.2933021	20	—	—
160373 2004 FU_{63}	16.9	X	103.28502	165.99451	83.25367	2.43590	0.1544189	0.26830205	2.3807843	20	11 6.6	20.6
160374 2004 GR_{22}	17.2	X	216.91385	59.16807	169.55063	3.19895	0.1256690	0.28394835	2.2925025	20	—	—
160375 2004 HG_{6}	16.6	X	49.71558	150.26662	79.40618	4.34266	0.1644636	0.25349237	2.4726318	20	8 9.2	19.5
160376 2004 HS_{27}	17.0	X	180.07791	80.01064	159.42836	5.12820	0.1109952	0.27848649	2.3223801	20	—	—
160377 2004 HY_{27}	16.7	X	260.12081	161.23479	60.84830	7.86533	0.0510286	0.28952579	2.2629652	20	—	—
160378 2004 HN_{30}	17.0	X	134.53235	170.21794	54.29872	3.78987	0.1195190	0.26845887	2.3798571	20	11 4.5	20.6
160379 2004 HX_{59}	16.1	X	167.62335	156.08362	106.77122	5.54344	0.2307838	0.21634376	2.7481460	20	—	—
160380 2004 HB_{67}	15.6	X	302.48457	239.68270	63.17764	9.86546	0.0867920	0.18537080	3.0463175	20	5 14.4	19.6
160381 2004 JV_{6}	17.4	X	242.67296	104.87574	100.10040	1.88359	0.0478783	0.28293549	2.2979704	20	—	—
160382 2004 JX_{16}	16.8	X	341.93754	55.20700	106.42297	6.99154	0.0354204	0.29228644	2.2486935	20	—	—
160383 2004 JL_{19}	16.8	X	196.43598	166.22438	33.53060	4.49804	0.0596515	0.27419238	2.3465643	20	12 16.0	19.9
160384 2004 JA_{30}	16.4	X	175.39267	166.00433	69.08162	7.35772	0.0564706	0.27526674	2.3404546	20	—	—
160385 2004 JJ_{35}	16.5	X	24.98548	163.07081	105.60902	6.90482	0.0957369	0.25319612	2.4745602	20	8 15.1	19.2
160386 2004 JX_{37}	16.2	X	138.51469	126.78765	106.40816	12.46296	0.2208024	0.26833092	2.3806136	20	11 21.6	20.4
160387 2004 JS_{44}	16.7	X	231.80246	128.34529	96.40199	8.09234	0.0623894	0.28312627	2.2969380	20	—	—
160388 2004 LC_{7}	16.7	X	304.68915	124.30917	67.32044	5.60009	0.1333920	0.29044056	2.2582111	20	—	—
160389 2004 LO_{23}	17.4	X	187.10730	47.48075	142.10140	2.99855	0.1153194	0.26969663	2.3725700	20	11 15.5	20.8
160390 2004 NQ_{8}	15.9	X	30.43574	114.02382	96.31729	12.74385	0.0811510	0.24065997	2.5597653	20	5 27.9	18.9
160391 2004 NJ_{20}	16.3	X	82.40125	93.66420	136.43482	13.16400	0.2229602	0.25424718	2.4677356	20	9 30.8	20.2
160392 2004 OJ_{7}	16.4	X	94.53967	165.67452	114.68369	14.67564	0.2016698	0.20055314	2.8905672	20	12 1.2	21.3
160393 2004 PZ_{6}	16.1	X	288.55387	87.97116	150.10707	12.40528	0.2042354	0.22596143	2.6696019	20	1 14.8	20.2
160394 2004 PB_{23}	15.5	X	286.16182	214.92230	133.95874	7.10520	0.0989968	0.17832809	3.1260041	20	6 18.7	19.9
160395 2004 PF_{74}	15.5	X	214.22942	343.35319	122.15856	12.31782	0.0670748	0.18568249	3.0429074	20	8 24.7	20.0
160396 2004 PY_{84}	16.8	X	299.95084	196.45817	151.74202	8.16575	0.1895492	0.30084809	2.2058258	20	6 28.8	19.0
160397 2004 PJ_{85}	16.4	X	302.80393	302.31702	10.91937	7.20516	0.2387133	0.29722729	2.2237037	20	4 27.4	18.8
160398 2004 PT_{103}	16.2	X	251.99592	64.47907	270.96506	5.57486	0.1529553	0.28903218	2.2655410	20	4 5.9	19.5
160399 2004 PA_{105}	16.3	X	289.80537	27.89185	297.76387	5.72935	0.1399938	0.29625217	2.2285807	20	5 13.7	18.8
160400 2004 RO_{5}	16.8	X	0.69395	171.86833	91.63879	8.11718	0.1802866	0.30174352	2.2014598	20	6 28.7	18.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
160401 2004 RC_{120}	16.1	X	256.98963	333.72756	145.80186	2.39823	0.1430644	0.19178644	2.9779960	20	10 21.7	20.1
160402 2004 RU_{192}	16.3	X	276.88057	109.07001	213.16478	5.29988	0.2291650	0.29501377	2.2348130	20	4 8.7	19.4
160403 2004 RE_{194}	16.6	X	264.02110	16.31736	312.52337	6.52252	0.1252155	0.29097977	2.2554205	20	4 13.5	19.7
160404 2004 RC_{196}	15.4	X	215.20319	351.15693	4.04281	22.85275	0.1617820	0.28583598	2.2823984	20	3 27.1	18.9
160405 2004 RO_{201}	17.3	X	306.96709	323.41691	347.99547	6.89896	0.2267348	0.29807378	2.2194917	20	5 2.6	19.5
160406 2004 TR_{10}	16.6	X	26.31370	187.25694	89.34134	5.64098	0.2088387	0.30664145	2.1779545	20	9 28.9	18.8
160407 2004 TP_{115}	16.4	X	187.97663	359.60351	258.76443	5.53218	0.1180120	0.26221742	2.4174733	20	—	—
160408 2004 VD_{7}	17.0	X	233.44308	189.82448	135.13634	3.05333	0.1873327	0.28303294	2.2974429	20	3 6.6	20.5
160409 2004 VJ_{7}	17.0	X	241.86788	142.96604	197.83644	5.15474	0.1921957	0.28727955	2.2747460	20	4 1.9	20.3
160410 2004 VW_{15}	16.8	X	292.55881	190.45396	133.81701	8.85415	0.2136560	0.29499371	2.2349143	20	5 8.7	19.5
160411 2004 VC_{63}	16.5	X	265.55564	258.17536	70.54962	4.16587	0.1966779	0.28861795	2.2677081	20	4 11.7	19.6
160412 2004 XO_{8}	16.2	X	232.87191	309.16322	78.07261	4.62384	0.2147363	0.28949929	2.2631033	20	5 23.0	19.5
160413 2004 XF_{25}	15.7	X	346.88927	64.81476	286.13350	27.40519	0.1718369	0.23589753	2.5941024	20	9 18.6	19.1
160414 2004 XW_{32}	16.6	X	226.48660	246.30864	102.03310	3.64091	0.2316893	0.28377228	2.2934507	20	3 28.9	20.4
160415 2004 XA_{78}	16.8	X	227.11531	314.00968	49.14133	1.78894	0.1970800	0.28560276	2.2836408	20	4 17.3	20.4
160416 2004 YP_{2}	15.4	X	301.97854	41.33488	3.39131	14.80602	0.1640740	0.23636566	2.5906761	20	9 26.2	18.1
160417 2004 YL_{22}	15.8	X	284.00996	235.36014	121.14636	12.86399	0.1709018	0.22313787	2.6920753	20	6 16.6	19.4
160418 2005 AR_{8}	14.7	X	150.19538	308.86476	298.77283	26.61224	0.2158840	0.17580689	3.1558193	20	12 1.4	20.5
160419 2005 AA_{55}	15.4	X	61.13535	347.31879	8.54815	10.83194	0.2262259	0.25225585	2.4807056	20	—	—
160420 2005 AZ_{65}	16.2	X	273.73372	182.32767	181.17102	2.03752	0.0390911	0.22074007	2.7115353	20	7 1.2	19.7
160421 2005 BG_{13}	16.0	X	138.67899	24.66087	327.65152	1.35416	0.2201586	0.26276231	2.4141301	20	1 19.7	19.5
160422 2005 CD_{22}	15.4	X	270.86255	112.26107	118.47424	11.61301	0.0341078	0.19194122	2.9763949	20	1 12.3	19.5
160423 2005 EU_{10}	14.2	X	116.88314	356.67780	339.48541	16.32385	0.3122730	0.17799728	3.1298760	20	1 3.9	19.3
160424 2005 EM_{243}	14.3	X	72.88704	211.11105	134.79741	21.44799	0.1271230	0.17672376	3.1448946	20	—	—
160425 2005 JF	16.6	X	53.84927	206.50364	50.33071	6.33104	0.2161666	0.27367972	2.3494938	20	10 4.5	19.7
160426 2005 QL_{114}	15.3	X	305.27788	136.14090	129.72520	2.77818	0.1197680	0.17559319	3.1583791	20	3 28.2	19.5
160427 2005 RL_{43}	7.8	X	88.17703	167.72639	162.47064	12.25901	0.0443245	0.00814825	24.4583162	20	11 28.9	21.7
160428 2005 SV_{12}	16.2	X	171.81623	298.23844	8.27344	5.62335	0.0434311	0.22334508	2.6904099	20	—	—
160429 2005 SZ_{26}	16.9	X	358.67298	4.05966	47.28018	3.42141	0.1806814	0.27459897	2.3442474	20	—	—
160430 2005 SQ_{30}	15.6	X	8.71253	203.16260	128.14618	2.88277	0.0916176	0.19627513	2.9324179	20	10 5.7	19.3
160431 2005 ST_{33}	16.6	X	168.30248	48.18855	133.31342	4.54359	0.0242207	0.26295578	2.4129458	20	10 21.1	19.7
160432 2005 SF_{74}	17.4	X	57.73060	351.19931	281.10505	0.44586	0.1436359	0.26515731	2.3995712	20	10 15.5	20.6
160433 2005 SJ_{75}	16.3	X	134.22660	106.17252	0.55186	0.58571	0.1463928	0.17436973	3.1731357	20	6 2.1	21.2
160434 2005 SM_{75}	16.5	X	290.43219	33.15179	16.32284	2.33630	0.1215090	0.19478810	2.9473233	20	9 11.5	20.1
160435 2005 SA_{78}	16.2	X	252.65482	330.96840	162.32167	2.27858	0.0226695	0.20421110	2.8559449	20	11 21.8	20.1
160436 2005 SX_{128}	15.9	X	176.28137	186.47192	148.06178	9.33529	0.0928794	0.22769047	2.6560697	20	1 27.8	19.9
160437 2005 SS_{139}	16.9	X	196.71941	145.29690	36.35169	4.90524	0.0879723	0.26995381	2.3710629	20	11 17.6	19.9
160438 2005 SP_{140}	16.6	X	26.18133	55.77589	48.67055	4.44892	0.0642649	0.22237857	2.6981998	20	—	—
160439 2005 SS_{204}	16.5	X	95.61431	301.66237	49.19529	3.88546	0.1001583	0.21659807	2.7459945	20	—	—
160440 2005 SJ_{239}	16.7	X	21.60556	322.03918	81.29775	1.78424	0.0754155	0.21144135	2.7904620	20	—	—
160441 2005 SW_{252}	15.9	X	57.36909	239.56804	143.97627	5.71191	0.0748197	0.21427633	2.7657945	20	—	—
160442 2005 SE_{253}	15.0	X	238.51186	220.66064	112.00022	6.70083	0.1959357	0.17305255	3.1892169	20	3 29.4	20.3
160443 2005 TP_{36}	17.1	X	93.41889	308.35069	131.35200	1.25877	0.0931430	0.23049638	2.6344703	20	3 4.0	20.3
160444 2005 TP_{54}	16.9	X	78.38928	210.72300	177.13723	6.60879	0.1168176	0.28458178	2.2890994	20	—	—
160445 2005 TU_{78}	15.2	X	307.27812	277.62017	90.11538	16.83895	0.0727646	0.18711301	3.0273785	20	8 22.1	19.4
160446 2005 UG_{227}	16.7	X	120.83964	247.36223	190.35357	1.63337	0.0529883	0.23108771	2.6299742	20	3 30.6	20.3
160447 2005 UQ_{245}	16.8	X	129.68695	122.27129	116.28489	2.68912	0.0563151	0.26552972	2.3973271	20	11 16.7	20.2
160448 2005 UK_{433}	16.9	X	280.30640	108.10683	234.83233	1.44221	0.0675173	0.24319182	2.5419680	20	6 8.2	20.2
160449 2005 US_{433}	17.2	X	272.10500	334.90304	215.27046	2.10167	0.1078627	0.27723531	2.3293622	20	—	—
160450 2005 UX_{475}	16.0	X	9.63099	297.31049	165.66661	9.50191	0.1344397	0.21512035	2.7585555	20	—	—
160451 2005 UO_{496}	15.4	X	249.82600	155.01564	107.30833	12.90495	0.1497191	0.22685031	2.6626237	20	1 12.4	19.4
160452 2005 UK_{498}	16.0	X	286.62189	159.03608	123.89234	10.23968	0.1142175	0.23850571	2.5751559	20	3 24.1	19.6
160453 2005 VK_{118}	16.4	X	5.96164	271.78848	294.82837	18.25186	0.0457845	0.36596793	1.9357118	20	3 13.6	18.6
160454 2005 WU_{27}	18.0	X	266.79445	75.17217	30.61804	1.64127	0.1496671	0.25959955	2.4336984	20	10 29.8	20.4
160455 2005 WX_{81}	15.9	X	331.83919	53.48769	345.72971	1.24170	0.1116494	0.19332290	2.9621964	20	11 3.9	19.4
160456 2005 WH_{117}	16.9	X	267.60419	78.74280	254.39883	19.69419	0.0767778	0.37634931	1.8999491	20	4 27.9	19.2
160457 2005 YW_{168}	16.6	X	141.36624	349.67279	46.44163	9.88864	0.1701624	0.28888749	2.2662973	20	3 14.8	19.9
160458 2005 YT_{174}	16.6	X	295.61394	332.23204	316.05112	17.33673	0.0694086	0.36388929	1.9430763	20	3 24.2	19.0
160459 2005 YL_{188}	16.7	X	201.56609	263.82616	11.49422	1.97888	0.1974218	0.27015516	2.3698846	20	—	—
160460 2006 BH_{22}	16.4	X	231.96059	115.81891	129.69087	5.03020	0.1116422	0.26938129	2.3744212	20	—	—
160461 2006 BG_{38}	16.3	X	185.62310	100.16672	172.61688	2.56193	0.1584240	0.26362764	2.4088444	20	—	—
160462 2006 BR_{73}	16.6	X	256.41690	286.39845	354.51294	5.27865	0.1640593	0.28069857	2.3101628	20	2 4.1	20.0
160463 2006 BJ_{118}	16.1	X	319.94905	317.81719	315.26306	7.51343	0.2490516	0.21703372	2.7423186	20	3 30.2	19.5
160464 2006 BQ_{145}	15.2	X	71.93162	244.20506	316.15914	15.78730	0.1586925	0.22580473	2.6708369	20	7 27.6	18.8
160465 2006 BL_{226}	13.4	X	18.84230	75.78411	134.12248	2.71397	0.0513942	0.08116760	5.2830038	20	5 10.1	20.2
160466 2006 CL_{47}	15.7	X	110.00286	289.38403	344.32494	2.13909	0.1070913	0.18278167	3.0750177	20	11 24.6	20.5
160467 2006 DC_{63}	15.6	X	31.87028	270.34201	183.91120	2.00866	0.0586131	0.19642986	2.9308778	20	—	—
160468 2006 DZ_{67}	15.2	X	18.07363	178.77317	107.51709	11.09300	0.1297188	0.23236269	2.6203448	20	9 2.3	18.3
160469 2006 DK_{114}	15.1	X	62.54593	248.60710	48.16566	14.03623	0.1652205	0.24323373	2.5416760	20	11 19.8	18.7
160470 2006 FG_{20}	15.6	X	180.06716	91.62756	183.36946	1.80019	0.0979467	0.18412014	3.0600969	20	—	—
160471 2006 FB_{49}	14.6	X	346.72821	31.30456	42.15468	22.79702	0.1533419	0.18855653	3.0119078	20	—	—
160472 2006 HM_{35}	14.7	X	137.87119	212.52344	82.75422	12.00764	0.0465461	0.18031666	3.1029788	20	—	—
160473 2006 HO_{83}	16.5	X	175.53726	188.48990	96.65946	5.46044	0.1110406	0.25297592	2.4759960	20	—	—
160474 2006 JM_{31}	14.7	X	131.64354	130.58002	202.03766	14.50845	0.2807550	0.17932309	3.1144300	20	1 4.7	20.0
160475 2006 KR_{12}	15.4	X	45.51941	277.90651	151.79113	11.64910	0.0854250	0.19016707	2.9948783	20	—	—
160476 2006 SO_{124}	16.4	X	214.68588	234.88491	119.12466	10.58478	0.0812661	0.25525775	2.4612181	20	4 5.0	20.1
160477 2006 VF_{148}	14.6	X	103.64519	98.29256	87.95235	12.39765	0.1348939	0.18147994	3.0897046	20	8 10.3	19.4
160478 2006 WO_{82}	16.1	X	336.17448	340.95759	90.32233	6.84603	0.0686447	0.21430355	2.7655603	20	12 27.2	19.3
160479 2006 WJ_{168}	16.2	X	28.67320	7.29717	179.38789	0.99567	0.0897113	0.17455696	3.1708663	20	4 23.2	20.1
160480 2006 XE_{26}	16.1	X	296.22729	9.71102	98.15453	10.01666	0.1629919	0.21140164	2.7908114	20	12 8.1	19.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
160481 2006 XH_{32}	15.3	X	12.28329	153.28984	63.24894	3.97681	0.0426934	0.17496845	3.1658929	20	5 5.9	19.5
160482 2007 AM_{5}	17.2	X	304.57608	229.62188	48.04469	0.74675	0.0405543	0.24394327	2.5367450	20	4 17.1	20.4
160483 2007 AS_{14}	15.0	X	250.53975	301.49042	89.42596	11.89322	0.0541332	0.18109784	3.0940491	20	7 3.3	19.3
160484 2007 AF_{27}	16.8	X	168.10212	152.25931	146.80889	7.74535	0.1419502	0.28889000	2.2662842	20	—	—
160485 2007 BL_{2}	15.7	X	256.12307	12.35720	75.98964	11.78548	0.0838485	0.19285754	2.9669596	20	9 25.8	20.0
160486 2007 BU_{18}	17.6	X	322.81582	47.45906	131.44955	3.24871	0.1513986	0.29369091	2.2415188	20	—	—
160487 2007 BL_{20}	16.8	X	165.29538	55.90857	103.76287	2.45145	0.1271110	0.25894776	2.4377806	20	9 12.9	20.4
160488 2007 BD_{33}	15.6	X	171.45649	119.94096	121.66925	13.25460	0.0666961	0.20614594	2.8380466	20	12 23.9	19.9
160489 2007 BV_{44}	17.3	X	188.45287	52.14763	152.03889	4.96759	0.0720901	0.27410627	2.3470557	20	12 11.3	20.4
160490 2007 BB_{45}	17.1	X	60.78194	355.85349	149.33981	6.33032	0.1423205	0.23647120	2.5899053	20	4 23.1	20.1
160491 2007 CC_{11}	16.1	X	332.30328	240.46775	136.51816	10.09534	0.0726525	0.19343793	2.9610219	20	10 11.0	19.9
160492 2007 CU_{11}	15.3	X	131.12147	12.85386	149.53478	15.53506	0.1999045	0.17952020	3.1121498	20	8 9.1	20.4
160493 Nantou	16.6	X	359.09686	324.69876	125.20757	5.81108	0.0666974	0.21317939	2.7752742	20	—	—
160494 2007 CG_{20}	15.9	X	304.45922	9.23506	150.53323	11.95669	0.0980032	0.21495373	2.7599808	20	—	—
160495 2007 CG_{24}	16.0	X	348.13619	86.27849	148.96049	9.18692	0.1174850	0.23790103	2.5795176	20	4 20.6	18.9
160496 2007 CE_{55}	15.0	X	157.30958	277.80735	167.17864	19.16230	0.1497283	0.17066386	3.2189064	20	5 31.6	20.5
160497 2007 CH_{56}	16.2	X	34.50172	354.95974	164.13379	12.27685	0.1271546	0.23205598	2.6226532	20	3 25.6	18.9
160498 2007 CO_{56}	17.3	X	268.60103	33.31197	170.19566	8.04588	0.1582714	0.28650802	2.2788279	20	—	—
160499 2007 DZ_{6}	16.8	X	45.96931	61.80693	118.31168	12.59682	0.1199398	0.23761003	2.5816233	20	5 17.3	20.0
160500 2007 DC_{32}	17.6	X	287.74041	76.39544	3.37421	2.02435	0.1667335	0.26893622	2.3770401	20	10 28.8	19.5
160501 2007 EC_{166}	16.3	X	42.55843	85.66314	52.57855	14.99168	0.1295538	0.22939894	2.6428658	20	3 18.5	19.5
160502 2007 FY_{27}	16.2	X	129.09040	239.27657	177.41098	14.88500	0.1037117	0.22913222	2.6449163	20	3 20.4	20.0
160503 2007 HX_{17}	15.3	X	225.76309	187.26928	141.44799	10.57636	0.2205316	0.21740354	2.7392078	20	3 8.9	20.0
160504 2007 HX_{37}	17.7	X	40.93442	337.39797	159.87825	4.78591	0.0921299	0.29728149	2.2234335	20	2 19.4	19.8
160505 2007 JN_{16}	16.7	X	278.99015	32.50604	281.85609	2.19801	0.0998458	0.22451753	2.6810354	20	4 22.6	20.2
160506 2007 JP_{22}	15.5	X	120.58648	88.45817	135.39585	16.73877	0.2216743	0.17487031	3.1670773	20	10 19.2	21.1
160507 3204 $T-3$	16.6	X	98.98799	319.54634	37.71298	3.16620	0.2063455	0.25962973	2.4335098	20	—	—
160508 4319 $T-3$	16.5	X	272.48109	270.65921	52.65132	8.12057	0.1790647	0.29237727	2.2482278	20	4 14.9	19.4
160509 1990 EG_{5}	14.4	X	192.24168	290.79555	297.78805	12.22815	0.1742406	0.18119000	3.0929998	20	12 16.1	19.5
160510 1990 RG_{1}	15.9	X	242.63631	27.99733	359.51270	6.58438	0.2682478	0.28969659	2.2620757	20	5 25.9	19.5
160511 1990 SD_{11}	14.6	X	47.90718	327.16311	341.58932	14.75725	0.2165954	0.23386777	2.6090904	20	11 19.7	18.6
160512 Franck–Hertz	16.4	X	345.19505	24.12720	325.86461	3.05125	0.2936288	0.23020392	2.6367011	20	10 12.3	18.0
160513 1990 TD_{13}	16.0	X	325.74573	259.69251	103.38513	7.54903	0.2720100	0.22877280	2.6476858	20	9 7.3	17.9
160514 1991 PQ_{9}	14.5	X	45.07235	12.16025	308.14731	8.34726	0.2396700	0.17485213	3.1672968	20	11 24.9	19.1
160515 1993 RP_{13}	16.9	X	183.88744	206.54181	181.29861	2.13263	0.2448333	0.27945512	2.3170105	20	4 11.6	20.7
160516 1994 PC_{32}	16.1	X	339.07743	149.63344	221.24668	3.46549	0.2972462	0.22891766	2.6465687	20	10 30.8	17.5
160517 1994 TB_{4}	16.1	X	281.54204	184.37723	189.14382	1.96620	0.2150676	0.22216354	2.6999405	20	6 27.9	19.7
160518 1994 VM_{3}	16.7	X	294.06683	350.64269	22.46137	4.77119	0.1765036	0.30015876	2.2092017	20	8 2.7	18.6
160519 1995 CS_{3}	16.5	X	274.32987	93.45316	246.37722	1.94255	0.3359864	0.28745178	2.2738373	20	4 17.0	20.0
160520 1995 GM_{2}	16.5	X	199.55613	154.37348	79.24543	3.21594	0.1451694	0.25997198	2.4313736	20	—	—
160521 1995 KU	15.5	X	75.08248	84.99319	197.30109	9.69966	0.1692804	0.24728872	2.5138143	20	11 18.5	19.3
160522 1995 SZ_{30}	15.9	X	271.90027	200.95130	153.27984	3.05402	0.0784012	0.23045263	2.6348037	20	6 10.5	19.3
160523 1995 SN_{40}	16.3	X	283.69223	172.43127	153.10313	2.77731	0.2179720	0.22975684	2.6401205	20	4 27.7	19.9
160524 1996 BF_{7}	16.2	X	279.27465	287.02200	91.42762	4.17507	0.0999852	0.22283976	2.6944757	20	7 20.8	19.5
160525 1996 EW_{10}	16.5	X	303.62119	122.78869	153.15039	6.42234	0.1606241	0.28934688	2.2638980	20	3 22.6	19.0
160526 1996 RZ_{4}	16.1	X	155.50657	140.36808	224.93270	5.02380	0.1538328	0.26864452	2.3787606	20	2 12.1	19.6
160527 1996 RE_{31}	12.2	X	289.79379	103.03342	320.76338	6.70787	0.0964605	0.08221223	5.2381558	20	9 12.9	19.0
160528 1996 RD_{32}	12.4	X	358.44345	300.74887	60.48135	4.06341	0.0937257	0.08398776	5.1640692	20	10 6.9	18.8
160529 1996 TN_{1}	16.1	X	187.37874	317.85012	306.87401	5.72040	0.0988243	0.26151337	2.4218103	20	—	—
160530 1996 TE_{16}	15.8	X	24.24553	119.44102	275.45367	5.15830	0.0387381	0.21471688	2.7620101	20	—	—
160531 1996 TB_{49}	15.0	X	99.05161	50.76980	350.32869	13.90641	0.2908321	0.18106338	3.0944417	20	2 27.2	19.5
160532 1996 TH_{50}	16.3	X	137.58668	172.75284	215.31623	4.30162	0.2103981	0.26774404	2.3840910	20	2 28.8	19.9
160533 1996 TT_{56}	12.4	X	340.41260	69.43578	292.13355	7.76964	0.0389642	0.08201708	5.2464617	20	9 8.8	19.2
160534 1996 TA_{58}	12.6	X	6.62222	11.90762	327.00717	10.63284	0.1142940	0.08287641	5.2101325	20	9 18.7	19.0
160535 1996 TC_{64}	16.3	X	112.62676	359.02522	17.45073	10.20643	0.2215455	0.26399184	2.4066284	20	1 24.3	19.5
160536 1996 UZ_{2}	16.1	X	108.07467	280.21059	36.44796	2.70836	0.0702575	0.21264073	2.7799591	20	—	—
160537 1996 XD_{17}	16.2	X	145.34769	204.36729	122.72578	7.41244	0.1635870	0.25976993	2.4326342	20	—	—
160538 1997 CG_{10}	15.9	X	48.07999	313.22262	308.89685	11.93537	0.1653567	0.23113716	2.6295990	20	9 11.4	19.4
160539 1997 SG	16.0	X	225.20912	73.78164	340.24834	3.16433	0.0602323	0.29426835	2.2385854	20	7 6.9	18.8
160540 1997 WB_{58}	16.1	X	150.03583	240.42156	151.18149	1.24284	0.2627443	0.19286479	2.9668852	20	3 25.9	21.1
160541 1997 WM_{58}	15.8	X	209.90218	303.52074	114.03320	7.89448	0.2702102	0.28850837	2.2682823	20	6 8.4	19.8
160542 1998 FG_{47}	16.8	X	320.51473	166.72244	346.08670	4.74948	0.0900118	0.30306387	2.1950611	20	—	—
160543 1998 GW_{8}	15.0	X	92.65574	143.99077	77.85971	13.44735	0.1143879	0.23604866	2.5929951	20	9 20.5	19.0
160544 1998 HV_{5}	16.5	X	40.10655	156.69723	105.07667	3.64670	0.1537769	0.23284238	2.6167448	20	9 4.9	19.6
160545 1998 KA_{11}	15.4	X	241.13086	240.49511	91.89620	16.12048	0.2475241	0.21795627	2.7345748	20	3 30.7	20.3
160546 1998 MD_{3}	16.0	X	12.50672	195.88039	111.60428	6.09685	0.1987100	0.23150880	2.6267841	20	10 2.4	18.7
160547 1998 MG_{17}	15.9	X	281.65322	46.25907	304.54459	10.41906	0.1967480	0.21960454	2.7208745	20	5 29.9	19.8
160548 1998 OW_{3}	16.5	X	284.12610	105.63986	218.73466	2.52902	0.1989500	0.21754603	2.7380115	20	4 28.9	20.3
160549 1998 QP_{20}	14.9	X	232.12330	118.90597	305.74774	4.25296	0.2950358	0.21710152	2.7417476	20	7 1.9	19.4
160550 1998 QM_{36}	15.5	X	296.61314	148.60562	259.90895	2.79833	0.3017911	0.22336829	2.6902235	20	8 25.2	18.2
160551 1998 QA_{45}	15.1	X	221.94571	60.30480	321.81002	12.17068	0.2169618	0.21247121	2.7814376	20	5 2.2	20.0
160552 1998 QB_{71}	15.7	X	258.66212	172.75504	209.07231	8.89600	0.3057070	0.21670576	2.7450847	20	5 31.9	20.1
160553 1998 QQ_{82}	15.5	X	280.37952	124.24458	226.71610	7.14670	0.2696128	0.21779699	2.7359078	20	5 19.3	19.4
160554 1998 QJ_{87}	14.9	X	270.50529	57.75258	304.91358	11.18420	0.1808735	0.21658164	2.7461334	20	6 3.3	18.9
160555 1998 RB_{1}	14.8	X	257.43130	6.06093	353.24482	9.49847	0.1835391	0.21360241	2.7716090	20	5 12.1	19.1
160556 1998 RR_{4}	15.6	X	276.95683	230.26996	161.98729	17.28712	0.2567129	0.21899990	2.7258802	20	7 9.8	19.7
160557 1998 RT_{18}	15.1	X	278.97883	352.21168	346.28208	12.73384	0.1616890	0.21672769	2.7448995	20	5 11.6	19.1
160558 1998 RL_{51}	15.8	X	321.28124	8.70241	297.28195	5.34264	0.2192846	0.21804521	2.7338311	20	5 27.1	18.7
160559 1998 RS_{55}	15.2	X	282.26726	4.78815	327.18759	5.99121	0.1434896	0.21473714	2.7618364	20	5 12.8	19.0
160560 1998 SZ_{6}	15.7	X	38.10347	86.55399	258.79753	0.62535	0.2414673	0.18527027	3.0474194	20	12 20.7	19.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
160561 1998 SR_{12}	14.8	X	255.93560	89.87961	258.29614	21.94491	0.2667498	0.21296819	2.7771088	20	4 16.1	19.7
160562 1998 SO_{74}	15.5	X	286.22473	218.07041	164.63748	5.97109	0.2617053	0.21815971	2.7328744	20	7 8.9	19.1
160563 1998 SC_{82}	15.7	X	226.62017	176.55140	208.69034	4.26855	0.1705113	0.21260258	2.7802917	20	5 18.8	20.2
160564 1998 SL_{88}	15.5	X	284.16526	105.38614	237.45679	2.64932	0.0929102	0.21610761	2.7501476	20	6 9.2	19.2
160565 1998 SW_{99}	16.5	X	128.25863	345.33292	312.82210	3.93717	0.2595902	0.28327964	2.2961089	20	—	—
160566 1998 SO_{156}	15.5	X	272.45719	299.28359	4.66650	7.61912	0.2142457	0.21028042	2.8007230	20	3 19.9	19.8
160567 1998 TP_{36}	14.7	X	284.79202	176.96011	211.64256	12.15551	0.1692813	0.21724997	2.7404985	20	7 27.0	18.5
160568 1998 UB_{35}	15.1	X	237.29452	120.36494	242.58604	7.91231	0.1933692	0.21072674	2.7967670	20	4 27.9	19.7
160569 1998 VD_{1}	15.0	X	269.31909	319.47080	59.96069	17.74213	0.2665506	0.21541517	2.7560379	20	6 10.9	19.1
160570 1998 VQ_{51}	15.3	X	230.41555	263.79109	107.21459	8.68270	0.2228084	0.20955553	2.8071781	20	5 3.9	20.1
160571 1998 WG_{10}	15.1	X	188.24850	310.32526	59.38666	11.68103	0.1598120	0.20267274	2.8703784	20	3 31.9	20.0
160572 1999 CM_{46}	14.7	X	105.90989	272.31968	141.87111	11.23183	0.1573365	0.18877446	3.0095893	20	3 2.6	19.0
160573 1999 CS_{142}	17.2	X	114.38243	139.52864	135.09931	6.32475	0.1917402	0.30733361	2.1746833	20	12 25.2	20.7
160574 1999 EH_{11}	16.7	X	359.20392	43.19285	151.96410	4.58671	0.0959923	0.28277202	2.2988559	20	3 5.4	18.8
160575 1999 GQ_{6}	16.0	X	254.30541	65.08105	136.52152	7.36687	0.1732979	0.26546563	2.3977129	20	—	—
160576 1999 HB_{7}	16.3	X	171.27114	268.82601	35.80306	2.85514	0.2049416	0.26427646	2.4049002	20	—	—
160577 1999 JL_{48}	15.8	X	248.95518	179.85878	31.10544	8.27092	0.2058262	0.26429217	2.4048049	20	—	—
160578 1999 JJ_{90}	15.1	X	208.01713	134.07371	91.98499	16.85707	0.1008230	0.21472206	2.7619656	20	—	—
160579 1999 JG_{136}	15.6	X	342.38831	100.70077	81.13075	11.69925	0.1868896	0.22774464	2.6556486	20	1 16.3	18.7
160580 1999 KG	15.6	X	357.16444	328.35176	225.35105	12.24397	0.0975272	0.22966826	2.6407993	20	3 1.7	19.0
160581 1999 KH_{12}	14.8	X	245.23889	136.59440	102.50586	4.51781	0.1217923	0.17158457	3.2073810	20	—	—
160582 1999 NY_{3}	16.6	X	76.08552	171.11610	127.99577	12.64682	0.2659761	0.24605902	2.5221826	20	12 17.7	20.9
160583 1999 NN_{15}	15.8	X	111.42306	18.48536	293.40159	11.57327	0.2393822	0.25231259	2.4803336	20	—	—
160584 1999 ND_{65}	16.1	X	91.02489	263.57153	92.76627	4.44681	0.2747703	0.25164778	2.4847001	20	—	—
160585 1999 RK_{2}	16.5	X	30.01585	234.48427	148.75501	8.08650	0.2154746	0.24637072	2.5200548	20	—	—
160586 1999 RG_{7}	15.7	X	47.65125	262.01654	4.27751	13.07175	0.1659195	0.23404984	2.6077372	20	9 23.4	19.0
160587 1999 RG_{15}	15.4	X	87.33709	297.90015	346.45225	13.34557	0.0416205	0.24206052	2.5498820	20	11 14.1	19.2
160588 1999 RG_{17}	16.3	X	18.49449	3.67097	330.15312	8.42145	0.1709271	0.23900127	2.5715950	20	11 8.9	19.4
160589 1999 RU_{25}	15.8	X	339.32452	43.18994	340.10294	3.56499	0.2401207	0.23693177	2.5865479	20	11 16.8	17.9
160590 1999 RE_{28}	16.2	X	359.30563	41.57491	347.16086	5.12361	0.3448737	0.23967830	2.5667500	20	—	—
160591 1999 RD_{81}	16.3	X	45.07850	314.62035	17.89744	5.75101	0.1980539	0.24226670	2.5484351	20	12 20.1	19.9
160592 1999 RF_{86}	15.9	X	6.09793	270.82250	131.05780	5.40954	0.2598312	0.24264027	2.5458186	20	—	—
160593 1999 RL_{100}	16.5	X	64.65777	257.35624	39.52617	1.37448	0.2059857	0.24256827	2.5463224	20	11 27.6	20.1
160594 1999 RX_{135}	15.6	X	1.15956	272.56288	125.26743	4.45148	0.2677300	0.24267152	2.5456001	20	—	—
160595 1999 RC_{143}	16.5	X	6.56102	218.01131	134.79018	5.44016	0.1845684	0.23811872	2.5779453	20	11 22.9	19.3
160596 1999 RT_{152}	15.4	X	18.98351	1.26314	327.61579	11.69689	0.1852520	0.23910772	2.5708318	20	11 3.3	18.7
160597 1999 RQ_{159}	16.5	X	48.94719	248.49900	102.30950	2.96807	0.2373751	0.24466740	2.5317373	20	—	—
160598 1999 RP_{162}	16.0	X	47.05773	46.18146	295.21194	4.28132	0.2026704	0.24316180	2.5421772	20	—	—
160599 1999 RX_{166}	15.9	X	346.70703	250.38257	144.85493	13.59414	0.2825617	0.23974557	2.5662699	20	12 31.5	18.4
160600 1999 RV_{210}	15.0	X	311.28288	26.63213	335.70290	14.00376	0.1431113	0.23035778	2.6355269	20	8 15.6	17.8
160601 1999 RO_{234}	15.9	X	334.32850	337.81886	85.89960	6.11185	0.3165297	0.24014709	2.5634085	20	—	—
160602 1999 RX_{252}	15.8	X	47.73924	329.76895	322.66396	9.09667	0.1959831	0.23805387	2.5784134	20	10 28.2	19.4
160603 1999 SA_{15}	16.4	X	25.70460	336.49828	340.24211	12.73581	0.2974916	0.23836592	2.5761626	20	11 15.7	19.9
160604 1999 TD_{11}	15.4	X	19.11820	78.02158	351.40016	1.93360	0.3032395	0.24111211	2.5565642	20	—	—
160605 1999 TT_{12}	15.6	X	343.79315	323.99695	29.73987	15.78764	0.2145553	0.23534514	2.5981600	20	10 12.9	17.7
160606 1999 TW_{25}	16.2	X	23.13830	114.96770	251.81312	0.46072	0.2111512	0.24020474	2.5629984	20	—	—
160607 1999 TY_{27}	15.7	X	332.84396	35.96450	8.42870	2.81417	0.2989406	0.23542326	2.5975852	20	12 10.9	17.2
160608 1999 TX_{29}	16.1	X	356.32674	35.92366	3.88443	3.76472	0.2433822	0.24059666	2.5602143	20	—	—
160609 1999 TA_{35}	16.0	X	306.85863	99.41876	213.94749	20.77774	0.0711133	0.36635003	1.9343656	20	6 5.8	17.9
160610 1999 TO_{46}	16.3	X	147.97609	258.97493	25.95879	6.90921	0.1289544	0.29629026	2.2283896	20	—	—
160611 1999 TP_{47}	17.2	X	148.27961	312.66592	180.50000	6.60874	0.0692635	0.27324230	2.3520006	20	7 18.5	20.6
160612 1999 TF_{67}	16.6	X	50.08400	302.13755	1.75901	3.41063	0.2539022	0.23857043	2.5746901	20	11 25.6	20.4
160613 1999 TA_{68}	15.6	X	181.57343	56.56874	96.45478	2.28133	0.1159533	0.18055571	3.1002394	20	9 12.9	20.4
160614 1999 TW_{82}	16.9	X	36.63175	249.36863	57.11136	2.14596	0.1878399	0.23721670	2.5844762	20	11 4.5	20.2
160615 1999 TG_{97}	15.6	X	358.10360	184.30855	149.79879	12.32835	0.1394153	0.23423677	2.6063496	20	10 7.3	18.5
160616 1999 TR_{97}	15.7	X	356.24718	289.61412	97.33404	4.47854	0.1947571	0.23915443	2.5704969	20	12 22.9	18.4
160617 1999 TF_{99}	16.0	X	11.04362	292.15363	92.37951	6.08162	0.2527590	0.24067677	2.5596461	20	—	—
160618 1999 TV_{103}	16.4	X	10.78976	113.15881	259.43953	3.33284	0.2174113	0.23960588	2.5672672	20	12 30.4	19.3
160619 1999 TH_{106}	15.3	X	8.12106	53.87536	246.09284	9.96368	0.1951767	0.23556013	2.5965789	20	9 3.0	18.1
160620 1999 TS_{114}	15.9	X	1.94204	159.46239	208.62588	4.51503	0.1531369	0.23866812	2.5739876	20	11 30.6	18.7
160621 1999 TK_{120}	16.2	X	17.36947	66.99071	287.31112	2.69600	0.2128551	0.23916003	2.5704569	20	12 14.9	19.3
160622 1999 TF_{144}	15.7	X	350.76735	351.69524	19.01113	14.04941	0.1550369	0.23804552	2.5784737	20	11 10.1	18.5
160623 1999 TX_{195}	16.0	X	3.22219	37.55782	300.27941	5.70934	0.2306508	0.23425261	2.6062321	20	10 28.2	18.6
160624 1999 TD_{197}	15.4	X	329.70389	291.05958	34.83282	12.25463	0.2311853	0.22803874	2.6533648	20	7 20.2	17.9
160625 1999 TP_{241}	16.7	X	47.49462	252.61314	110.12419	5.42504	0.2675319	0.24318433	2.5420202	20	—	—
160626 1999 TE_{271}	16.5	X	45.22079	47.97077	323.32408	5.07023	0.1518847	0.29150666	2.2527019	20	—	—
160627 1999 TQ_{295}	16.1	X	26.15655	117.41879	181.25890	12.35017	0.2760865	0.23640899	2.5903596	20	10 26.3	19.2
160628 1999 UU_{29}	16.2	X	11.02618	300.39745	38.51546	3.39036	0.1838807	0.23691865	2.5866433	20	11 8.8	18.8
160629 1999 UQ_{45}	15.8	X	28.05265	53.36955	287.11588	4.18391	0.2790191	0.23891386	2.5722223	20	12 21.1	19.2
160630 1999 VU_{26}	16.0	X	19.57500	131.15133	236.69698	4.26416	0.3199038	0.23882228	2.5728798	20	—	—
160631 1999 VX_{29}	15.8	X	301.45134	158.31157	251.42196	2.49135	0.2077522	0.23156379	2.6263682	20	9 24.2	18.4
160632 1999 VU_{45}	15.7	X	51.97304	19.43229	307.54779	4.68616	0.1422968	0.23960854	2.5672482	20	12 13.2	19.3
160633 1999 VC_{46}	16.7	X	245.14748	112.47681	238.81064	19.24952	0.0981738	0.36389137	1.9430689	20	4 22.7	19.0
160634 1999 VG_{58}	15.5	X	258.09366	346.38367	51.40593	12.48762	0.1085378	0.22439431	2.6820168	20	7 18.5	19.4
160635 1999 VA_{83}	16.4	X	297.44928	222.34047	29.06013	20.41951	0.0693535	0.35668648	1.9691477	20	2 25.3	19.0
160636 1999 VR_{83}	14.7	X	60.01892	63.70140	222.36297	9.99348	0.0811915	0.18679034	3.0308639	20	10 12.5	19.0
160637 1999 VF_{88}	16.4	X	11.91109	113.22921	216.34314	2.92265	0.1963180	0.23492784	2.6012358	20	10 29.9	19.0
160638 1999 VB_{109}	16.2	X	305.97195	332.80692	41.11468	0.46541	0.1507958	0.22789104	2.6545112	20	8 19.4	18.8
160639 1999 VJ_{122}	16.7	X	329.21138	263.31620	88.89040	3.19978	0.1475290	0.22920182	2.6443809	20	9 3.8	19.3
160640 1999 VN_{149}	16.4	X	333.60132	339.06730	35.43654	4.49229	0.1764412	0.23274120	2.6175031	20	10 16.6	18.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
160641 1999 VB_{158}	15.8	X	322.61271	285.92604	44.50039	10.13901	0.1711395	0.22671392	2.6636915	20	7 16.4	18.7
160642 1999 VD_{191}	15.9	X	355.00808	242.63540	40.25283	10.38367	0.1826905	0.22533175	2.6745730	20	7 13.4	18.6
160643 1999 XQ_{6}	15.8	X	10.57841	326.46681	44.76787	5.27845	0.2897026	0.23768751	2.5810622	20	—	—
160644 1999 XM_{11}	15.5	X	11.08955	94.63004	303.12986	3.99537	0.2990807	0.24061500	2.5600842	20	—	—
160645 1999 XW_{43}	15.6	X	320.43952	103.18678	278.36978	3.35973	0.1052216	0.23109711	2.6299029	20	9 28.6	18.4
160646 1999 XK_{44}	15.8	X	303.15183	60.70174	350.92680	1.12199	0.1881195	0.23219022	2.6216423	20	10 4.7	18.3
160647 1999 XH_{69}	15.8	X	354.40159	325.97165	76.84864	3.02449	0.2196289	0.23717139	2.5848054	20	—	—
160648 1999 XC_{71}	15.5	X	266.49505	118.91974	230.90073	6.62431	0.0900711	0.21797094	2.7344521	20	5 26.5	19.2
160649 1999 XR_{74}	15.7	X	351.71965	169.47794	229.38707	3.53928	0.2981147	0.23667785	2.5883975	20	—	—
160650 1999 XB_{75}	15.7	X	18.05212	299.87745	86.47799	2.97671	0.2146185	0.23815480	2.5776849	20	—	—
160651 1999 XQ_{101}	14.9	X	44.46821	298.68756	86.37061	5.37462	0.1986858	0.23961906	2.5671730	20	—	—
160652 1999 XB_{109}	16.1	X	351.21936	194.19475	195.89562	3.10095	0.1843341	0.23690662	2.5867309	20	12 16.2	18.8
160653 1999 XY_{112}	15.7	X	28.79397	51.98597	341.07443	11.55599	0.3009627	0.24289741	2.5440216	20	—	—
160654 1999 XQ_{113}	15.3	X	67.64431	3.12922	12.90513	15.97304	0.1924918	0.24574892	2.5243039	20	—	—
160655 1999 XB_{114}	15.2	X	6.40714	15.42331	0.94030	14.98039	0.1118896	0.23697135	2.5862598	20	12 9.5	18.6
160656 1999 XU_{116}	15.5	X	341.71523	105.60984	288.18965	3.45489	0.2914538	0.23627417	2.5913449	20	12 17.7	17.3
160657 1999 XC_{142}	16.4	X	196.37917	283.29461	67.38059	24.04381	0.0952162	0.35320051	1.9820830	20	3 12.8	19.7
160658 1999 XT_{153}	14.6	X	278.15632	130.22224	279.20135	10.99800	0.1924926	0.22329300	2.6908282	20	8 11.5	18.1
160659 1999 XY_{156}	15.6	X	343.94272	304.05981	109.23689	4.89090	0.2199630	0.23635341	2.5907657	20	—	—
160660 1999 XX_{204}	15.5	X	313.35221	55.62849	333.74501	10.95154	0.3077607	0.22899320	2.6459867	20	9 4.6	17.4
160661 1999 XD_{225}	13.1	X	292.91752	118.18046	301.65104	6.28202	0.0880802	0.08109035	5.2863583	20	9 12.5	19.9
160662 1999 XZ_{250}	15.8	X	239.90787	91.84308	300.49450	2.27861	0.0841616	0.21626356	2.7488254	20	6 19.3	19.8
160663 1999 XK_{259}	15.3	X	301.23402	285.47545	140.75779	12.93651	0.1403552	0.23335563	2.6129065	20	11 2.6	18.3
160664 2000 AE_{3}	15.1	X	273.58148	90.54920	320.87659	11.85656	0.1837189	0.22780706	2.6551635	20	8 13.6	18.4
160665 2000 AB_{7}	15.7	X	13.43707	8.76907	10.06293	4.15549	0.2360669	0.23717999	2.5847429	20	—	—
160666 2000 AW_{100}	15.5	X	293.61056	308.76199	78.43181	13.76954	0.1851502	0.22865080	2.6486276	20	8 16.3	18.7
160667 2000 AY_{100}	14.6	X	122.00321	223.43312	115.03664	8.56644	0.0632530	0.24721214	2.5143333	20	—	—
160668 2000 AQ_{155}	15.9	X	305.78486	148.85941	263.04817	2.96542	0.2443263	0.23124697	2.6287665	20	10 1.8	18.1
160669 2000 AN_{171}	15.8	X	54.46849	198.20618	173.52910	6.28512	0.3104261	0.24274164	2.5451098	20	—	—
160670 2000 AB_{215}	15.9	X	51.90840	62.06668	265.98242	5.88080	0.1439868	0.28285248	2.2984200	20	12 24.7	19.0
160671 2000 AY_{237}	16.5	X	18.77619	109.61768	266.84367	4.68022	0.2907699	0.23953125	2.5678004	20	—	—
160672 2000 BP_{11}	17.0	X	300.95419	257.32095	125.97576	1.41698	0.2223965	0.27385435	2.3484949	20	8 20.4	18.6
160673 2000 BB_{35}	15.4	X	22.00957	348.43246	40.77221	5.26479	0.2443964	0.23700971	2.5859808	20	—	—
160674 2000 CN_{32}	15.4	X	270.25838	70.51854	148.19544	11.75695	0.0518913	0.19212661	2.9744799	20	—	—
160675 2000 CK_{47}	16.1	X	283.88442	214.77893	202.35749	4.43938	0.2532307	0.22541912	2.6738818	20	8 23.7	19.2
160676 2000 CT_{55}	15.0	X	181.69379	122.66637	320.71905	8.72637	0.1580263	0.21250174	2.7811712	20	6 18.9	19.7
160677 2000 CP_{81}	15.2	X	313.59486	261.07228	140.67745	13.07026	0.3051550	0.22730725	2.6590542	20	10 4.1	17.2
160678 2000 CZ_{140}	15.3	X	249.72433	64.24200	307.79537	12.25216	0.1291738	0.21402843	2.7679298	20	5 28.1	19.6
160679 2000 DB_{6}	12.2	X	335.27598	34.32553	0.41136	12.93763	0.0756377	0.08276117	5.2149680	20	10 9.7	18.7
160680 2000 DX_{11}	14.9	X	93.33095	263.26431	176.29797	13.47946	0.0253061	0.19433462	2.9519065	20	2 25.3	19.0
160681 2000 DR_{23}	15.3	X	234.38975	56.46975	328.23477	13.19171	0.2180593	0.21301796	2.7766762	20	5 17.2	20.1
160682 2000 DN_{39}	15.0	X	255.25914	293.61140	324.03873	9.30596	0.0596552	0.19304977	2.9649897	20	1 25.2	19.3
160683 2000 DG_{79}	15.2	X	208.08051	286.63080	147.01973	32.26504	0.2810477	0.21548883	2.7554099	20	6 28.8	20.6
160684 2000 EL_{10}	17.1	X	258.39252	72.78492	31.57129	0.77209	0.1775576	0.27225417	2.3576881	20	10 12.7	19.6
160685 2000 EK_{92}	14.8	X	222.03047	237.13654	348.38295	12.33488	0.1190914	0.18087218	3.0966221	20	—	—
160686 2000 EO_{155}	14.8	X	265.75144	283.71629	307.35882	9.08454	0.0616254	0.18842496	3.0133096	20	1 5.3	19.2
160687 2000 EV_{164}	15.1	X	152.22399	292.64032	357.16514	5.84378	0.1360942	0.18024530	3.1037977	20	—	—
160688 2000 GB_{7}	16.4	X	329.89126	325.27617	188.15043	12.07378	0.1921407	0.23680196	2.5874931	20	—	—
160689 2000 GA_{41}	14.5	X	163.54486	115.31552	200.13744	8.61327	0.0753706	0.18331793	3.0690179	20	—	—
160690 2000 HD_{7}	16.7	X	277.66094	289.02002	47.18884	11.54825	0.2526654	0.29437646	2.2380374	20	4 27.6	19.7
160691 2000 HO_{13}	16.6	X	99.15829	338.14964	235.54909	1.36003	0.1694052	0.25774996	2.4453272	20	9 16.6	20.3
160692 2000 HD_{17}	17.0	X	357.61263	197.30625	79.66823	2.47040	0.1801073	0.30035983	2.2082157	20	7 16.4	18.2
160693 2000 HO_{55}	16.8	X	353.97711	278.03917	24.62170	3.24798	0.1955687	0.30198098	2.2003055	20	8 27.8	18.0
160694 2000 JG_{71}	15.3	X	190.01991	17.29630	221.90750	12.12334	0.1595211	0.22659599	2.6646156	20	—	—
160695 2000 KX_{13}	16.7	X	352.89380	226.75936	69.54775	5.42376	0.1343567	0.30064470	2.2068205	20	8 8.1	18.4
160696 2000 KX_{28}	16.6	X	162.48015	198.08590	61.28211	4.53256	0.1763210	0.26946334	2.3739392	20	—	—
160697 2000 LB_{15}	16.1	X	303.39319	106.37533	219.51554	4.41160	0.1926263	0.29491114	2.2353315	20	5 29.5	18.3
160698 2000 NJ_{26}	16.2	X	229.38210	142.87603	207.12460	6.24812	0.2067308	0.28345822	2.2951444	20	3 31.9	20.0
160699 2000 ON_{14}	16.4	X	304.65073	141.39796	142.52765	7.28795	0.1184027	0.28821469	2.2698229	20	4 13.7	19.0
160700 2000 OH_{15}	16.4	X	263.47888	226.44898	114.21367	6.21398	0.1857599	0.28807648	2.2705488	20	4 28.0	19.6
160701 2000 OD_{50}	16.2	X	184.73599	31.61980	327.22585	4.58946	0.2234159	0.27577768	2.3375629	20	3 6.2	20.1
160702 2000 PU_{2}	16.3	X	254.14056	60.47320	281.20429	6.64765	0.1602376	0.28665890	2.2780282	20	4 15.8	19.7
160703 2000 PB_{19}	17.0	X	236.01169	278.84268	28.78426	2.16369	0.2130566	0.28036579	2.3119905	20	2 15.6	20.7
160704 2000 PW_{27}	15.2	X	194.88523	98.28684	254.57511	23.88047	0.2098872	0.27734609	2.3287419	20	2 24.3	19.7
160705 2000 QE_{4}	15.6	X	201.33459	93.20860	332.01666	4.27201	0.1584345	0.28616753	2.2806352	20	6 15.0	19.1
160706 2000 QK_{4}	16.7	X	204.45382	16.88494	334.54344	3.83549	0.1916417	0.27873531	2.3209978	20	3 12.9	20.3
160707 2000 QP_{10}	16.6	X	227.11925	36.06982	316.93471	3.56447	0.2939885	0.28312169	2.2969627	20	3 29.2	20.7
160708 2000 QF_{20}	15.7	X	277.23428	44.06068	339.42848	5.72060	0.2024549	0.29159625	2.2522405	20	7 13.1	18.1
160709 2000 QC_{30}	15.9	X	181.66416	224.57128	123.90074	5.65154	0.1500323	0.27454762	2.3445397	20	2 18.9	19.5
160710 2000 QA_{52}	16.6	X	194.47267	105.05242	272.05285	1.13816	0.2419956	0.28029719	2.3123677	20	4 5.6	20.5
160711 2000 QK_{73}	15.7	X	149.27769	50.64618	336.05224	7.71570	0.2146986	0.27466374	2.3438789	20	3 9.6	19.4
160712 2000 QN_{85}	16.0	X	141.29416	89.60332	307.59055	6.68654	0.1125300	0.27622581	2.3350340	20	3 3.3	19.1
160713 2000 QQ_{96}	16.1	X	236.60137	340.15418	354.49576	12.49427	0.1885513	0.28139042	2.3063746	20	3 20.1	19.8
160714 2000 QO_{103}	16.2	X	191.85746	254.75435	135.01723	4.41397	0.1790455	0.28044734	2.3115422	20	4 21.9	19.8
160715 2000 QG_{106}	14.8	X	244.66301	193.03224	141.87608	12.44518	0.2041446	0.18160452	3.0882915	20	4 6.2	19.9
160716 2000 QG_{109}	16.9	X	208.42818	272.60779	75.74846	4.32074	0.1491451	0.27914574	2.3187221	20	3 16.1	20.4
160717 2000 QS_{118}	15.2	X	133.43692	175.36480	267.48635	4.85004	0.1732289	0.27826979	2.3235856	20	5 1.5	18.5
160718 2000 QP_{125}	15.7	X	121.78209	133.17397	288.63635	5.12065	0.1305539	0.27511048	2.3413407	20	3 14.8	18.8
160719 2000 QO_{132}	16.4	X	205.33183	330.96408	2.46463	4.39556	0.1772195	0.27877402	2.3207829	20	2 22.3	20.0
160720 2000 QM_{158}	16.1	X	186.62139	55.43741	289.74061	8.94136	0.0448282	0.27630908	2.3345648	20	2 10.9	19.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
160721 2000 QB_{159}	15.3	X	240.71974	79.43735	184.52298	16.73035	0.2864117	0.17626092	3.1503976	20	1 4.3	21.1
160722 2000 QY_{166}	16.0	X	119.56603	88.85026	313.58931	6.43842	0.1099359	0.27309628	2.3528389	20	2 14.4	18.9
160723 2000 QL_{171}	16.5	X	227.50622	205.91798	181.87149	6.76534	0.2227885	0.28486760	2.2875680	20	5 19.2	20.2
160724 2000 QM_{171}	16.4	X	151.55969	136.92769	279.33538	2.03656	0.0993826	0.27882992	2.3204727	20	4 9.4	19.7
160725 2000 QV_{176}	16.1	X	249.19548	136.60204	187.30505	5.86284	0.1192394	0.28242269	2.3007512	20	3 24.9	19.2
160726 2000 QS_{179}	16.1	X	176.02253	225.39384	123.54369	5.89913	0.1262191	0.27361324	2.3498744	20	2 12.4	19.4
160727 2000 QG_{184}	16.6	X	211.37981	17.90752	352.33855	4.43980	0.1743657	0.28290801	2.2981192	20	4 11.4	20.1
160728 2000 QG_{192}	15.8	X	183.74356	317.84837	57.04891	7.33940	0.1377352	0.27888785	2.3201514	20	3 27.2	19.3
160729 2000 QC_{201}	16.8	X	174.28189	340.55831	36.09870	3.86841	0.1771778	0.27742103	2.3283225	20	3 19.7	20.5
160730 2000 QQ_{209}	16.8	X	243.26296	347.89138	309.52844	2.61467	0.1772563	0.27916246	2.3186296	20	2 10.0	20.5
160731 2000 QY_{230}	16.6	X	143.63066	213.07512	146.74602	2.64525	0.1637075	0.26952886	2.3735544	20	1 26.5	19.9
160732 2000 RU_{17}	16.4	X	184.92731	46.47630	292.86755	4.71787	0.2336564	0.27470843	2.3436247	20	2 11.9	20.2
160733 2000 RE_{22}	16.6	X	209.47109	348.29633	308.78585	2.12399	0.1847797	0.27310114	2.3528110	20	1 12.1	20.2
160734 2000 RS_{23}	16.2	X	141.53222	79.35948	291.47093	2.18132	0.1864639	0.27064823	2.3670055	20	2 9.4	19.7
160735 2000 RP_{27}	15.9	X	111.46251	41.95949	332.35304	6.55410	0.0771294	0.26690755	2.3890696	20	—	—
160736 2000 RB_{32}	15.9	X	148.79792	147.49358	234.86657	6.37086	0.1261582	0.27292203	2.3538403	20	2 22.6	19.3
160737 2000 RL_{34}	16.0	X	253.40486	116.68764	239.73378	5.94492	0.1526471	0.28466250	2.2886667	20	5 8.9	19.2
160738 2000 RZ_{41}	15.4	X	250.33921	340.44308	331.60629	13.53030	0.2186859	0.27989725	2.3145699	20	3 1.5	19.2
160739 2000 RB_{51}	16.1	X	227.89483	155.53444	226.28652	1.57377	0.2365370	0.28229942	2.3014209	20	5 9.5	19.9
160740 2000 RW_{69}	16.6	X	213.46820	278.37395	37.21114	2.85834	0.2219997	0.27519128	2.3408824	20	2 7.6	20.5
160741 2000 RE_{72}	16.5	X	157.52152	203.86066	182.97842	2.01954	0.2099465	0.27273707	2.3549043	20	3 18.1	20.2
160742 2000 RT_{83}	16.0	X	185.63892	27.89913	337.99954	5.18940	0.1301110	0.27531575	2.3401768	20	3 13.1	19.4
160743 2000 RU_{84}	16.6	X	148.05234	70.29829	312.83696	2.97464	0.0545550	0.27513977	2.3411746	20	2 17.0	19.6
160744 2000 RO_{91}	16.7	X	166.58441	124.62616	242.44042	1.49437	0.2312347	0.27370852	2.3493290	20	3 1.9	20.7
160745 2000 RW_{95}	16.1	X	188.89180	49.68676	235.92457	11.14705	0.2597755	0.27113513	2.3641708	20	—	—
160746 2000 RD_{100}	16.9	X	179.83656	231.02846	153.05211	3.55575	0.1752622	0.27785756	2.3258832	20	4 2.9	20.4
160747 2000 SR_{9}	16.3	X	208.57931	317.96404	338.23517	11.97563	0.2180043	0.27298210	2.3534950	20	1 13.2	20.4
160748 2000 SM_{35}	16.3	X	187.19904	157.08224	168.97502	8.25587	0.2007350	0.27321470	2.3521590	20	1 27.3	20.2
160749 2000 SZ_{74}	16.7	X	197.26670	325.39471	68.63934	3.39744	0.2018796	0.27985321	2.3148127	20	4 30.8	20.6
160750 2000 SR_{78}	16.1	X	155.99000	347.40294	77.07311	3.08168	0.2205020	0.22727087	2.6593380	20	5 5.6	20.5
160751 2000 SC_{83}	16.4	X	232.39232	287.46043	345.08044	5.06671	0.2048929	0.27352627	2.3503724	20	1 1.9	20.4
160752 2000 SQ_{84}	16.5	X	150.36340	260.56139	167.47838	4.18805	0.2089293	0.27674620	2.3321059	20	5 4.1	20.1
160753 2000 SW_{84}	16.1	X	210.94584	128.44011	177.50290	6.45843	0.1524943	0.27246342	2.3564808	20	1 22.5	19.8
160754 2000 SM_{88}	16.8	X	152.52003	317.79478	59.77710	4.74070	0.1690578	0.27183925	2.3600866	20	3 1.2	20.4
160755 2000 SE_{94}	16.3	X	245.30735	357.40886	312.07384	7.52954	0.0938160	0.27872729	2.3210423	20	3 1.9	19.7
160756 2000 SE_{96}	16.0	X	70.10360	144.21466	312.01200	5.76839	0.0738943	0.27191031	2.3596754	20	2 11.6	18.4
160757 2000 SU_{98}	16.3	X	128.47424	50.21145	335.31399	5.06020	0.1861972	0.27023310	2.3694290	20	2 15.1	19.5
160758 2000 SM_{99}	14.8	X	213.72581	148.45904	221.76363	6.97398	0.0307550	0.18014441	3.1049565	20	4 25.9	19.3
160759 2000 SV_{101}	16.0	X	60.77581	112.85452	332.89593	3.58470	0.1189543	0.26820784	2.3813418	20	1 18.9	18.3
160760 2000 SV_{103}	16.7	X	184.90198	123.20466	215.40382	2.86077	0.1934762	0.27331598	2.3515779	20	2 9.6	20.6
160761 2000 SE_{105}	16.6	X	224.86251	285.99374	39.25384	5.16706	0.2955372	0.27795048	2.3253648	20	2 27.4	20.8
160762 2000 SL_{106}	16.9	X	128.74568	190.03218	189.92420	0.92013	0.1922056	0.26939073	2.3743657	20	2 8.3	20.2
160763 2000 SJ_{108}	16.7	X	182.08880	183.73922	183.00373	1.98550	0.1935419	0.27549553	2.3391586	20	3 13.5	20.3
160764 2000 SJ_{125}	16.5	X	138.31626	208.64337	154.31190	5.84830	0.2498534	0.26803605	2.3823592	20	2 3.3	20.0
160765 2000 SK_{126}	16.0	X	127.81992	235.96185	146.34138	5.97722	0.1752512	0.26774109	2.3841086	20	2 8.3	19.3
160766 2000 SY_{130}	14.6	X	150.76824	206.97308	227.25156	16.78253	0.1221385	0.18041582	3.1018417	20	5 8.1	19.5
160767 2000 SS_{133}	16.3	X	196.27125	67.03357	237.04771	7.56839	0.1464493	0.27138657	2.3627103	20	1 6.8	20.0
160768 2000 SQ_{137}	16.8	X	217.23638	23.16434	298.77343	2.85952	0.2617252	0.27686950	2.3314135	20	2 15.9	20.9
160769 2000 SM_{152}	16.6	X	185.77336	121.40086	201.47242	4.44876	0.2383278	0.27117047	2.3639654	20	1 24.2	20.6
160770 2000 SF_{188}	16.6	X	174.28155	303.12904	34.87427	4.01966	0.1939963	0.27100629	2.3649201	20	2 2.4	20.3
160771 2000 SM_{195}	15.7	X	29.18852	113.09362	249.54979	1.03622	0.0547436	0.20498000	2.8487984	20	12 9.1	19.4
160772 2000 SU_{199}	16.4	X	25.40412	97.28493	181.39176	10.16402	0.2467534	0.24525668	2.5276804	20	9 21.2	18.9
160773 2000 SG_{206}	17.0	X	152.78777	200.62516	166.60106	1.35055	0.1907386	0.27070371	2.3666820	20	2 16.8	20.6
160774 2000 SK_{217}	16.4	X	194.83579	235.52302	98.00043	5.37498	0.2515205	0.27379585	2.3488294	20	2 15.6	20.4
160775 2000 SW_{234}	15.2	X	136.43247	130.29125	180.12074	11.02920	0.0628971	0.21449138	2.7639456	20	—	—
160776 2000 SP_{241}	16.3	X	264.04086	315.14652	24.83814	5.67559	0.2677079	0.28640521	2.2793732	20	4 15.4	19.7
160777 2000 SL_{243}	16.4	X	247.86420	249.38651	38.35332	4.86442	0.2053481	0.27838752	2.3229304	20	2 2.8	20.1
160778 2000 SA_{250}	16.8	X	227.31368	166.31599	134.74982	3.11100	0.1733473	0.27532089	2.3401477	20	1 31.9	20.6
160779 2000 SV_{257}	16.9	X	187.71860	315.39110	42.46993	3.58876	0.1259746	0.27495363	2.3422311	20	3 7.4	20.3
160780 2000 SL_{267}	16.5	X	206.72397	241.26266	57.79818	2.74124	0.2169208	0.27195052	2.3594428	20	1 13.1	20.3
160781 2000 SK_{277}	15.7	X	212.16105	340.98712	46.88648	5.64332	0.2098379	0.27944732	2.3170536	20	5 5.0	19.4
160782 2000 SY_{284}	15.8	X	22.69761	175.00350	278.90996	5.99810	0.0813423	0.26383647	2.4075732	20	—	—
160783 2000 SB_{292}	16.4	X	216.78249	28.47222	247.59814	4.82053	0.0948807	0.26953402	2.3735241	20	—	—
160784 2000 SF_{326}	15.3	X	57.38546	185.54415	14.79086	17.26587	0.1393623	0.23410819	2.6073038	20	7 4.7	18.9
160785 2000 SV_{337}	17.2	X	78.55306	291.04810	43.53293	2.85104	0.2237612	0.25993103	2.4316289	20	—	—
160786 2000 SM_{356}	15.9	X	118.35340	305.11133	70.93069	13.28012	0.1473944	0.26793216	2.3829750	20	1 17.1	19.0
160787 2000 SE_{361}	16.7	X	135.36760	161.61023	259.27355	1.75825	0.2499624	0.27540249	2.3396855	20	4 12.4	20.3
160788 2000 TF_{21}	16.4	X	165.29711	217.30113	136.75685	8.45944	0.1284940	0.27227266	2.3575814	20	2 7.5	19.8
160789 2000 TJ_{23}	16.3	X	237.81437	225.94773	38.35641	2.82113	0.1951039	0.27101799	2.3648520	20	—	—
160790 2000 TP_{42}	16.3	X	239.18188	163.28013	158.67935	15.07762	0.1164834	0.22924737	2.6440306	20	3 17.9	20.3
160791 2000 TF_{45}	15.9	X	101.63231	291.85274	118.55182	8.11994	0.1720172	0.26928505	2.3749869	20	2 13.2	18.6
160792 2000 TS_{50}	16.4	X	164.24065	199.80285	130.23451	7.60878	0.2169729	0.26871081	2.3783693	20	1 14.9	20.1
160793 2000 TN_{54}	15.7	X	225.78496	132.16920	104.44580	7.02251	0.0664397	0.26239518	2.4163814	20	—	—
160794 2000 UC_{7}	16.5	X	134.11742	191.36801	201.81986	2.55487	0.2424034	0.26989523	2.3714060	20	3 6.9	20.1
160795 2000 UA_{17}	16.0	X	177.82193	71.88182	237.69543	3.84226	0.1571842	0.26691215	2.3890422	20	—	—
160796 2000 UL_{20}	16.7	X	88.14174	295.28325	160.87084	1.25711	0.1510553	0.27043933	2.3682242	20	3 23.5	19.2
160797 2000 UM_{22}	16.1	X	69.50709	270.17091	133.12309	3.28158	0.2033248	0.26180187	2.4200308	20	—	—
160798 2000 UH_{59}	15.8	X	49.78054	163.09853	283.00837	4.47478	0.1083819	0.26470741	2.4022894	20	—	—
160799 2000 UN_{65}	17.0	X	135.72368	7.77076	331.74802	2.87907	0.1399721	0.26486419	2.4013413	20	—	—
160800 2000 UF_{71}	16.7	X	192.58859	46.36118	312.41077	1.84925	0.2427942	0.27497390	2.3421160	20	3 12.9	20.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
160801 2000 UP_{90}	16.2	X	74.95033	112.07535	302.49394	1.78887	0.1880166	0.26237517	2.4165042	20	1 9.0	18.4
160802 2000 VP_{14}	16.4	X	130.42789	208.49344	191.99726	5.72708	0.1407610	0.26945376	2.3739955	20	2 29.2	19.7
160803 2000 VF_{26}	16.8	X	122.60294	335.41796	55.79459	2.71506	0.1894807	0.26745888	2.3857854	20	2 17.3	20.0
160804 2000 VQ_{28}	15.8	X	158.53310	258.32987	105.22585	4.92642	0.2613502	0.26961855	2.3730281	20	2 24.7	19.7
160805 2000 VQ_{32}	16.7	X	94.50364	237.31768	164.60811	2.11746	0.2104075	0.26383230	2.4075985	20	1 27.6	19.3
160806 2000 VE_{42}	16.8	X	212.09035	352.13066	341.14294	1.95762	0.2294516	0.27514350	2.3411535	20	2 26.7	20.8
160807 2000 VB_{44}	16.4	X	141.27542	358.22765	11.80549	2.78830	0.1471616	0.26743998	2.3858977	20	2 5.5	19.7
160808 2000 VJ_{46}	16.4	X	169.49212	13.18701	343.86615	6.21105	0.1643977	0.26959467	2.3731682	20	2 19.2	20.1
160809 2000 VJ_{51}	16.6	X	142.94962	318.11829	355.77668	5.81649	0.1436639	0.26127513	2.4232823	20	—	—
160810 2000 VE_{54}	16.0	X	136.16455	9.82334	0.39466	6.23683	0.1401369	0.26651352	2.3914238	20	1 31.2	19.3
160811 2000 VH_{55}	15.4	X	87.98059	35.14688	350.76015	3.42888	0.2167138	0.26184340	2.4197748	20	—	—
160812 2000 WN_{3}	15.3	X	147.09776	222.94165	158.43732	24.48619	0.2778920	0.26943761	2.3740903	20	3 8.5	19.2
160813 2000 WY_{14}	16.1	X	3.88171	20.33864	44.34137	5.47857	0.1075614	0.25269412	2.4778364	20	—	—
160814 2000 WA_{42}	15.1	X	119.62277	200.10658	45.95688	13.62006	0.0990468	0.24721663	2.5143029	20	11 11.7	18.8
160815 2000 WV_{43}	16.0	X	145.17490	249.39755	105.46901	5.49294	0.2534263	0.26630510	2.3926714	20	2 1.6	19.6
160816 2000 WO_{69}	16.2	X	205.63598	25.00687	345.25031	6.30490	0.2105241	0.27771763	2.3266644	20	4 5.1	20.1
160817 2000 WK_{72}	15.7	X	98.05681	239.18679	293.10877	23.50305	0.0428556	0.37676468	1.8985524	20	7 13.7	17.2
160818 2000 WH_{95}	15.9	X	107.64366	5.16342	6.55770	0.77409	0.2067771	0.26168493	2.4207517	20	1 6.1	18.7
160819 2000 WE_{122}	16.4	X	108.13673	333.60381	38.45285	2.45331	0.1971744	0.26190498	2.4193955	20	1 5.9	19.2
160820 2000 WD_{125}	16.6	X	178.59527	246.14455	113.46862	6.55029	0.2058048	0.27314372	2.3525665	20	3 4.8	20.4
160821 2000 WH_{133}	16.0	X	214.65253	359.35480	341.24333	6.50006	0.1369094	0.27508083	2.3415090	20	3 9.8	19.6
160822 2000 WY_{149}	16.8	X	190.12985	68.16392	205.57998	1.77105	0.2119251	0.26252005	2.4156151	20	—	—
160823 2000 WL_{180}	16.6	X	101.53374	277.12389	137.50509	5.32706	0.2234092	0.26598038	2.3946184	20	2 26.9	19.5
160824 2000 WU_{180}	16.2	X	183.41943	4.33369	322.64793	6.18641	0.1369952	0.26840540	2.3801732	20	1 24.6	19.7
160825 2000 WV_{196}	15.3	X	43.57361	66.83939	310.42353	5.27010	0.1488407	0.25247204	2.4792892	20	—	—
160826 2000 XT_{4}	14.6	X	189.12881	79.58632	312.79962	8.77571	0.3083163	0.12558761	3.9491611	20	4 21.3	21.5
160827 2000 XA_{8}	15.7	X	149.24326	51.11614	340.93890	5.08373	0.2234607	0.26972002	2.3724328	20	3 17.6	19.4
160828 2000 XP_{27}	15.6	X	301.68246	23.70360	55.41187	15.66692	0.0559235	0.24358419	2.5392374	20	11 23.5	18.6
160829 2000 XU_{27}	16.4	X	137.08933	28.07620	354.33934	4.61055	0.2606970	0.26677146	2.3898821	20	2 28.7	20.1
160830 2000 XJ_{30}	15.4	X	314.25241	8.25971	44.76160	13.19833	0.0704146	0.24374323	2.5381328	20	11 7.6	18.0
160831 2000 XK_{39}	14.8	X	346.75776	23.84364	10.68414	12.28611	0.0968402	0.24547957	2.5261500	20	12 3.7	17.9
160832 2000 YF_{12}	15.2	X	104.37789	1.82290	93.66478	25.05166	0.1597990	0.27309429	2.3528503	20	4 29.2	18.9
160833 2000 YN_{14}	15.5	X	179.34693	13.37429	112.95942	3.62721	0.0333114	0.17931399	3.1145354	20	8 10.7	19.9
160834 2000 YD_{51}	15.6	X	144.67009	92.13634	297.28712	5.92333	0.2733267	0.26790539	2.3831337	20	3 12.4	19.5
160835 2000 YY_{56}	15.9	X	112.42911	280.83843	103.69271	5.99454	0.1811909	0.26190863	2.4193731	20	1 26.0	18.8
160836 2000 YS_{68}	15.2	X	14.87863	56.24114	131.57231	8.67006	0.1542015	0.21013933	2.8019765	20	4 4.4	18.2
160837 2000 YQ_{70}	16.3	X	120.05666	290.96858	109.23595	4.23883	0.2995699	0.26739458	2.3861678	20	3 11.2	19.9
160838 2000 YF_{79}	16.6	X	81.84303	52.20719	3.51211	0.84263	0.2263278	0.26229634	2.4169884	20	1 29.9	19.0
160839 2000 YG_{97}	15.7	X	314.78550	125.40622	300.25864	12.07998	0.1620563	0.24252789	2.5466050	20	11 22.4	18.4
160840 2000 YG_{113}	16.2	X	66.17664	69.56686	339.78693	2.52435	0.1691365	0.25673925	2.4517407	20	—	—
160841 2000 YX_{117}	15.9	X	338.36307	104.60894	321.74057	3.44140	0.1811884	0.24535214	2.5270247	20	—	—
160842 2000 YE_{142}	15.2	X	241.87926	180.05758	251.30676	9.09575	0.0634947	0.19021123	2.9944147	20	8 9.2	19.6
160843 2001 AC_{41}	15.7	X	6.29654	161.12749	129.16112	11.18817	0.0255565	0.22800474	2.6536285	20	8 5.2	19.0
160844 2001 AB_{47}	14.1	X	301.32055	59.86323	22.73924	29.43168	0.1753555	0.24237098	2.5477040	20	11 9.0	16.9
160845 2001 AS_{48}	17.0	X	8.11963	108.41559	139.26039	23.42803	0.0692097	0.37344541	1.9097857	20	6 18.9	19.1
160846 2001 BV_{56}	16.2	X	346.99822	311.00151	97.12804	3.04866	0.1613727	0.24362952	2.5389225	20	—	—
160847 2001 BD_{68}	15.9	X	201.85514	64.75112	335.21314	20.26693	0.0606486	0.37122694	1.9173867	20	5 2.9	18.7
160848 2001 BN_{82}	17.0	X	208.54267	301.23000	44.86348	2.90231	0.2548051	0.28058243	2.3108002	20	3 11.1	21.1
160849 2001 CH_{15}	15.5	X	16.22098	201.50480	114.06285	10.50009	0.0807449	0.23176118	2.6248768	20	10 5.6	18.9
160850 2001 CB_{20}	16.5	X	214.76159	293.47195	139.53425	23.99563	0.1186653	0.37690089	1.8980950	20	7 18.7	19.0
160851 2001 CX_{43}	16.4	X	211.92839	8.55493	26.55193	22.14148	0.0598670	0.37073473	1.9190835	20	5 13.5	18.8
160852 2001 CT_{44}	14.9	X	76.00712	119.00789	17.86060	17.52529	0.0688766	0.21354687	2.7720895	20	4 19.2	18.7
160853 2001 DA_{11}	15.4	X	71.83855	279.20135	337.85024	14.10442	0.0461853	0.22931955	2.6434758	20	9 19.6	19.0
160854 2001 DV_{25}	15.7	X	76.44028	58.40503	344.26610	9.89878	0.2731281	0.25572153	2.4582414	20	1 12.7	18.0
160855 2001 DH_{81}	14.9	X	62.30580	329.50740	24.64732	13.64044	0.1937830	0.23856094	2.5747585	20	—	—
160856 2001 DU_{92}	12.5	X	342.46157	2.20441	28.40081	7.63145	0.0904979	0.08247083	5.2272002	20	10 16.8	19.0
160857 2001 EU_{21}	15.9	X	336.02221	281.04217	274.04802	5.97679	0.2548450	0.20429772	2.8551376	20	1 16.5	19.2
160858 2001 FA_{121}	15.3	X	171.49490	191.20188	54.40937	9.16102	0.2639967	0.18260314	3.0770217	20	12 13.6	20.8
160859 2001 FH_{122}	15.2	X	303.08323	265.27925	180.90626	17.11215	0.1322754	0.18601806	3.0392468	20	11 17.8	19.1
160860 2001 FV_{142}	15.6	X	324.20262	140.16125	165.52413	7.00717	0.0435292	0.21690583	2.7433964	20	6 23.7	19.2
160861 2001 FE_{186}	14.6	X	205.93763	69.54166	124.46133	15.02355	0.0751538	0.18447226	3.0562016	20	12 1.8	19.3
160862 2001 GD_{5}	15.0	X	160.29735	75.34506	193.75191	25.02568	0.2771331	0.18116233	3.0933148	20	12 29.8	21.0
160863 2001 HG_{20}	15.1	X	182.96123	91.02345	138.18004	19.63343	0.3388616	0.18056130	3.1001755	20	12 4.5	21.1
160864 2001 HG_{51}	16.0	X	56.36025	251.62866	14.00882	7.35317	0.1053338	0.27268471	2.3552058	20	9 30.9	18.8
160865 2001 JK_{2}	15.2	X	170.48039	222.51965	114.26725	10.35088	0.1030484	0.19174943	2.9783793	20	1 31.1	19.9
160866 2001 KM_{11}	15.1	X	147.93761	205.62138	81.44971	8.13878	0.1466741	0.18122551	3.0925958	20	—	—
160867 2001 KS_{25}	16.9	X	267.92094	354.24079	272.73423	5.37933	0.1638946	0.30056054	2.2072324	20	1 23.9	20.0
160868 2001 KS_{32}	16.2	X	147.57834	209.04127	91.54522	6.08086	0.1401159	0.23536065	2.5980458	20	—	—
160869 2001 KM_{39}	14.8	X	79.72288	111.77244	223.55073	24.67281	0.3608949	0.17262896	3.1944318	20	—	—
160870 2001 KU_{55}	14.9	X	124.08903	159.22351	129.88744	11.55214	0.1994676	0.17653354	3.1471533	20	12 28.2	20.2
160871 2001 KM_{66}	14.4	X	100.21030	104.28217	219.98272	15.30968	0.2819440	0.17607039	3.1526699	20	—	—
160872 2001 NS_{6}	15.4	X	201.70576	7.54282	221.98687	13.57120	0.1994937	0.23019017	2.6368061	20	12 30.8	19.6
160873 2001 NE_{14}	14.4	X	4.07593	83.73399	328.28908	13.52211	0.0303716	0.17239304	3.1973454	20	12 27.6	19.0
160874 2001 NQ_{18}	14.2	X	109.51802	75.50024	301.06190	9.80865	0.2461364	0.17950351	3.1123428	20	1 31.9	18.9
160875 2001 OQ_{21}	14.0	X	313.84861	59.05367	337.32661	16.41690	0.1492431	0.15668397	3.4076345	20	9 16.9	18.3
160876 2001 ON_{66}	15.4	X	103.14218	23.10669	332.30719	9.69216	0.1021543	0.23160302	2.6260716	20	—	—
160877 2001 OP_{77}	14.5	X	92.70594	71.03907	309.04327	25.40676	0.2077176	0.17881816	3.1202901	20	1 16.1	18.8
160878 2001 OO_{82}	14.3	X	74.68769	144.95298	253.10752	16.72548	0.1334705	0.17815262	3.1280564	20	—	—
160879 2001 OC_{100}	16.2	X	92.02059	53.79983	322.69530	4.00344	0.1870192	0.28165247	2.3049438	20	—	—
160880 2001 PJ_{10}	14.5	X	40.68423	102.99612	306.52417	8.65233	0.0683160	0.17572071	3.1568510	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
160881 2001 PJ_{12}	14.4	X	73.93693	15.12104	5.52706	19.11041	0.1893277	0.17401959	3.1773907	20	—	—
160882 2001 PC_{29}	14.5	X	167.33643	314.24475	287.78720	3.88079	0.1157436	0.17085624	3.2164896	20	12 10.1	19.5
160883 2001 QW_{2}	14.0	X	0.81107	130.87204	308.40464	17.07312	0.1781055	0.17336521	3.1853813	20	—	—
160884 2001 QT_{39}	14.8	X	3.04365	281.31746	133.01163	5.91307	0.1364436	0.17136239	3.2101529	20	—	—
160885 2001 QF_{110}	15.6	X	145.27897	287.14780	108.51383	4.85487	0.1067322	0.24126292	2.5554987	20	3 13.2	19.3
160886 2001 QB_{135}	16.0	X	185.62186	342.75010	315.95761	8.07420	0.2721230	0.28454166	2.2893146	20	—	—
160887 2001 QD_{223}	15.3	X	57.04846	359.19050	352.47930	1.01850	0.1441680	0.16884711	3.2419548	20	—	—
160888 2001 QT_{258}	14.4	X	329.10413	43.96542	300.86808	8.67182	0.0771918	0.15156622	3.4839167	20	8 13.2	19.0
160889 2001 QX_{279}	16.4	X	121.63982	321.61935	39.99269	7.29667	0.1286096	0.28283109	2.2985359	20	—	—
160890 2001 QH_{282}	13.8	X	345.79632	96.09220	269.39459	15.19976	0.1864486	0.15573791	3.4214208	20	9 29.3	18.0
160891 2001 RU_{82}	16.3	X	20.53438	31.74747	206.89275	5.77659	0.1290648	0.30485054	2.1864761	20	6 26.7	18.1
160892 2001 RN_{112}	16.5	X	186.81951	359.62808	150.77896	3.06573	0.0963233	0.26104104	2.4247308	20	9 25.3	20.0
160893 2001 RH_{116}	16.9	X	195.65354	191.97136	147.19578	3.37563	0.1228071	0.29069734	2.2568811	20	2 17.2	20.2
160894 2001 SP_{87}	16.3	X	133.10042	112.29538	286.71378	2.42441	0.0763343	0.23686655	2.5870226	20	2 26.2	19.9
160895 2001 SN_{107}	16.6	X	351.60813	2.31426	337.45460	6.65254	0.2421185	0.31040839	2.1602984	20	11 2.0	18.1
160896 2001 SU_{199}	16.9	X	164.68744	267.93851	18.37944	4.17423	0.0373072	0.27787320	2.3257960	20	—	—
160897 2001 SB_{257}	17.1	X	19.15332	144.30632	187.29088	3.86900	0.1978181	0.31455416	2.1412749	20	12 5.0	19.5
160898 2001 SY_{262}	17.3	X	158.88122	109.98966	218.96916	20.59329	0.1090058	0.38839617	1.8604561	20	—	—
160899 2001 SG_{287}	15.7	X	70.78720	262.86447	148.83083	8.69199	0.3103552	0.22268263	2.6957430	20	1 26.5	18.3
160900 2001 SZ_{306}	16.6	X	81.00051	268.83718	154.52725	6.27728	0.2418354	0.22992751	2.6388139	20	2 16.3	19.6
160901 2001 SJ_{339}	16.5	X	134.83946	304.23612	116.57022	3.93413	0.1627496	0.23906068	2.5711690	20	4 8.4	20.4
160902 2001 SL_{342}	16.0	X	328.30407	128.36179	341.90959	7.82780	0.2658252	0.21443255	2.7644511	20	—	—
160903 Shiokaze	16.8	X	86.62342	13.80856	62.56579	1.41412	0.0884274	0.23121583	2.6290026	20	2 18.8	20.1
160904 2001 TR_{102}	16.9	X	99.31777	248.48227	199.78215	5.03020	0.2441255	0.23249123	2.6193789	20	4 13.6	20.5
160905 2001 TL_{206}	16.3	X	112.94072	351.23447	199.58329	2.04153	0.1217837	0.25425787	2.4676664	20	8 27.7	20.0
160906 2001 UB_{12}	16.7	X	30.46399	231.51470	98.21234	2.98022	0.2081583	0.31290132	2.1488089	20	12 17.6	19.1
160907 2001 UJ_{87}	16.9	X	340.99753	2.52489	230.35116	1.25000	0.1728159	0.29079718	2.2563645	20	3 16.7	18.8
160908 2001 UM_{138}	17.0	X	93.00265	197.83103	43.03648	5.35766	0.0675073	0.31013833	2.1615523	20	10 15.7	19.7
160909 2001 UD_{217}	16.3	X	111.17204	218.10917	55.95738	6.89129	0.0361203	0.21108560	2.7935963	20	11 27.1	20.1
160910 2001 VO_{6}	15.8	X	41.92865	292.77310	35.84855	4.75220	0.1066748	0.20903597	2.8118276	20	11 20.7	19.5
160911 2001 VV_{54}	16.8	X	264.81731	45.80524	7.30024	6.90002	0.0415888	0.30559001	2.1829475	20	9 7.8	19.2
160912 2001 WU_{27}	16.7	X	298.30727	283.78877	115.76955	3.35065	0.1707700	0.30794134	2.1718211	20	9 29.8	18.0
160913 2001 WH_{47}	16.0	X	251.51723	87.16201	294.77606	4.58050	0.1769252	0.29463580	2.2367239	20	6 8.3	19.1
160914 2001 XE_{13}	15.7	X	343.94498	107.79104	335.25579	10.74384	0.1613919	0.21041975	2.7994865	20	—	—
160915 2001 XO_{40}	16.2	X	283.52901	353.34504	4.38646	7.76515	0.1631090	0.29851389	2.2173097	20	6 19.5	18.8
160916 2001 XB_{44}	15.1	X	62.67513	309.87062	330.32706	10.53511	0.0627359	0.19709234	2.9243065	20	10 4.4	19.3
160917 2001 XA_{82}	16.0	X	359.51570	351.98255	113.57133	4.50233	0.1568013	0.21680864	2.7442162	20	—	—
160918 2001 XB_{88}	14.9	X	80.98722	61.55550	94.73103	6.06134	0.1737781	0.17626439	3.1503562	20	6 9.8	19.4
160919 2001 XL_{101}	16.4	X	236.49458	84.95285	304.32658	5.35784	0.1124664	0.29423503	2.2387545	20	6 8.4	19.5
160920 2001 XT_{109}	15.4	X	203.15070	48.44960	96.40956	7.57481	0.1786601	0.20026365	2.8933522	20	9 24.7	20.1
160921 2001 XH_{115}	16.1	X	318.82772	53.29114	311.16212	6.74412	0.1006724	0.30233878	2.1985692	20	9 13.6	18.1
160922 2001 XN_{117}	16.0	X	218.75845	73.09199	338.32228	6.90672	0.1053675	0.29275515	2.2462927	20	6 19.3	19.2
160923 2001 XN_{135}	16.2	X	106.60843	56.19037	97.44292	5.76730	0.1812559	0.23777792	2.5804080	20	7 8.2	20.1
160924 2001 XT_{140}	16.8	X	13.11857	228.32434	78.84723	3.98960	0.1857816	0.30705093	2.1760178	20	10 17.6	18.8
160925 2001 XA_{157}	16.2	X	131.96505	142.87760	340.10460	7.33403	0.0607262	0.29149560	2.2527589	20	6 14.3	19.2
160926 2001 XV_{172}	15.9	X	267.55718	77.61043	115.91108	6.46567	0.0953999	0.26606889	2.3940873	20	—	—
160927 2001 XV_{193}	16.4	X	260.09594	254.74384	120.85737	7.81737	0.1773200	0.29485190	2.2356309	20	6 11.0	19.3
160928 2001 XZ_{200}	15.1	X	254.21604	202.56331	79.04590	24.05871	0.0973258	0.22832904	2.6511153	20	2 21.2	19.5
160929 2001 XW_{237}	16.0	X	57.30334	263.29784	282.28794	4.38936	0.1687199	0.23475735	2.6024951	20	6 16.2	19.0
160930 2001 XF_{243}	16.1	X	253.78054	139.02416	106.52467	7.07143	0.0757598	0.27167783	2.3610214	20	—	—
160931 2001 XE_{248}	16.3	X	200.83592	315.88002	285.58288	6.96539	0.1638701	0.26150185	2.4218814	20	—	—
160932 2001 YO	16.4	X	250.73758	89.87830	269.37105	7.03123	0.1596391	0.29194942	2.2504238	20	5 7.4	19.6
160933 2001 YX_{26}	16.6	X	28.54446	52.74859	7.98357	3.56888	0.0953460	0.21591935	2.7517460	20	—	—
160934 2001 YA_{63}	16.1	X	236.28317	102.04281	306.12110	4.38763	0.1302435	0.29691327	2.2252714	20	7 3.7	18.9
160935 2001 YV_{68}	16.4	X	303.48094	132.00167	77.37391	4.88945	0.0799317	0.27395171	2.3479384	20	1 4.9	19.3
160936 2001 YD_{84}	16.2	X	246.51261	56.83651	301.59047	4.35965	0.1692490	0.29074897	2.2566139	20	4 30.2	19.6
160937 2001 YM_{84}	16.0	X	214.65188	310.08762	295.10900	7.41462	0.1896028	0.26350734	2.4095775	20	—	—
160938 2001 YR_{104}	16.1	X	245.15943	26.38378	162.87556	3.21449	0.1328222	0.26082891	2.4260452	20	—	—
160939 2002 AJ_{2}	15.9	X	133.65692	189.41148	8.07654	20.64962	0.0279390	0.35431399	1.9779282	20	10 8.6	17.9
160940 2002 AK_{5}	16.1	X	218.18735	338.40259	91.41752	6.25756	0.2453343	0.24155887	2.5534110	20	6 30.8	20.2
160941 2002 AM_{9}	14.6	X	84.85730	157.03295	302.13981	14.54226	0.0529051	0.17028198	3.2237170	20	3 10.4	19.4
160942 2002 AV_{33}	16.3	X	214.99299	117.38308	131.47596	1.90974	0.1409512	0.26511315	2.3998377	20	—	—
160943 2002 AR_{34}	15.9	X	224.73030	79.19891	303.38613	3.93159	0.1807717	0.28975914	2.2617501	20	5 9.7	19.5
160944 2002 AY_{37}	15.9	X	347.78693	319.57610	108.75901	4.94307	0.0831805	0.20996526	2.8035249	20	—	—
160945 2002 AD_{40}	14.7	X	149.61582	200.06695	293.12799	12.62297	0.0949326	0.18379490	3.0637059	20	7 17.4	19.4
160946 2002 AA_{49}	16.7	X	272.78625	66.40384	295.20733	3.25063	0.1862872	0.29439634	2.2379366	20	6 4.9	19.4
160947 2002 AX_{59}	16.1	X	139.36687	139.00046	297.87460	5.82237	0.1187313	0.28269735	2.2992607	20	4 23.1	19.3
160948 2002 AT_{76}	16.9	X	259.18282	351.15213	58.65387	3.57878	0.1701999	0.29993468	2.2103019	20	8 1.0	19.4
160949 2002 AD_{99}	15.8	X	202.18650	258.97104	319.36170	8.52863	0.1776172	0.25652691	2.4530935	20	12 28.5	19.3
160950 2002 AK_{107}	15.6	X	187.66856	303.02178	94.07167	3.12277	0.1435341	0.17869054	3.1217755	20	4 29.7	20.7
160951 2002 AR_{110}	16.4	X	260.05248	293.32130	102.05787	5.87994	0.1442099	0.29620739	2.2288053	20	7 14.6	18.9
160952 2002 AG_{111}	16.2	X	240.50097	297.34690	100.97252	5.98949	0.1414770	0.29349979	2.2424917	20	6 23.0	19.0
160953 2002 AA_{116}	16.5	X	261.55461	227.40297	117.89289	2.79419	0.2613892	0.29095107	2.2555688	20	4 21.8	19.8
160954 2002 AF_{122}	16.0	X	138.72452	125.73409	328.70456	4.95428	0.1136682	0.28477808	2.2880474	20	5 17.1	19.3
160955 2002 AN_{126}	16.4	X	246.59345	54.11599	278.07823	5.16734	0.1395718	0.28555609	2.2838895	20	3 28.2	19.8
160956 2002 AU_{129}	15.4	X	58.82380	83.68008	348.95131	24.67660	0.1855383	0.22019414	2.7160153	20	1 25.5	18.8
160957 2002 AD_{142}	16.8	X	348.07626	197.43308	170.11307	2.48786	0.2102248	0.25442815	2.4665653	20	11 17.7	18.8
160958 2002 AS_{156}	16.2	X	181.98631	349.78443	293.10985	2.03757	0.1071400	0.26214815	2.4178992	20	—	—
160959 2002 AZ_{159}	16.1	X	195.31852	157.38217	134.54814	6.71729	0.1388440	0.26665861	2.3905563	20	—	—
160960 2002 AU_{162}	16.0	X	177.46237	122.70169	280.83208	4.81429	0.1625997	0.28437195	2.2902253	20	4 21.9	19.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
160961 2002 AW_{178}	16.1	X	214.25224	240.43463	122.12883	7.28823	0.1348702	0.28180627	2.3041051	20	4 10.5	19.7
160962 2002 AA_{182}	15.7	X	336.40631	104.78110	93.12735	10.69097	0.1788623	0.22232860	2.6986040	20	1 31.4	19.0
160963 2002 AP_{182}	16.7	X	301.93811	191.45010	155.72148	6.06373	0.1915326	0.29607736	2.2294578	20	6 30.2	18.6
160964 2002 AY_{201}	16.7	X	196.53750	189.56571	205.25590	3.88802	0.1141238	0.28631941	2.2798286	20	5 1.9	19.8
160965 2002 BB_{5}	15.8	X	3.71648	229.67018	23.30990	13.67358	0.0756483	0.23363489	2.6108239	20	6 8.4	19.1
160966 2002 BO_{7}	15.5	X	35.15481	57.72556	129.10199	12.74455	0.1282597	0.22633487	2.6666646	20	5 10.1	18.7
160967 2002 BQ_{15}	16.2	X	141.61191	322.59699	310.14627	14.02306	0.1179031	0.25489789	2.4635340	20	—	—
160968 2002 BP_{23}	15.1	X	330.27031	246.13455	358.71289	13.91557	0.1265877	0.22821731	2.6519805	20	3 28.4	18.2
160969 2002 BV_{25}	15.2	X	72.03100	108.95058	80.88566	12.74796	0.2178427	0.22710909	2.6606007	20	7 22.0	18.9
160970 2002 CX_{10}	16.5	X	346.38054	76.00670	90.66504	21.75570	0.0573208	0.37452407	1.9061170	20	—	—
160971 2002 CM_{13}	15.4	X	242.78242	275.98001	316.83621	11.56550	0.0600879	0.21104620	2.7939440	20	—	—
160972 2002 CX_{23}	16.3	X	248.97308	46.72685	183.59404	6.66461	0.0711690	0.26608373	2.3939983	20	—	—
160973 2002 CO_{26}	15.3	X	59.20916	205.39065	282.30926	25.08194	0.1654609	0.28197711	2.3031743	20	3 2.5	18.3
160974 2002 CL_{38}	16.2	X	99.93221	120.47070	124.93691	6.00243	0.2198831	0.24165182	2.5527561	20	10 31.9	20.4
160975 2002 CO_{38}	15.8	X	219.87455	336.44089	334.16528	5.90722	0.1426551	0.27172390	2.3607545	20	2 7.7	19.4
160976 2002 CV_{52}	16.3	X	189.13201	314.29113	283.73131	1.59129	0.1527678	0.25783606	2.4447828	20	—	—
160977 2002 CH_{59}	15.8	X	105.28205	288.66103	345.98828	6.93896	0.1486745	0.24568088	2.5247699	20	12 3.9	19.9
160978 2002 CU_{60}	15.7	X	162.47468	143.47699	107.25814	15.86475	0.1443047	0.25443172	2.4665422	20	12 30.6	19.4
160979 2002 CG_{67}	16.2	X	265.59567	309.87018	327.79843	5.88438	0.0936373	0.27622556	2.3350354	20	2 15.3	19.3
160980 2002 CP_{70}	15.9	X	169.36911	108.74354	124.69909	2.86565	0.0586780	0.20046472	2.8914171	20	12 10.8	20.1
160981 2002 CV_{74}	15.8	X	300.66725	281.02930	141.01239	19.92392	0.1524015	0.19711025	2.9241293	20	10 17.9	19.6
160982 2002 CH_{85}	16.1	X	222.47088	176.73305	113.81875	5.03352	0.1868857	0.27055101	2.3675724	20	1 15.4	19.9
160983 2002 CX_{96}	16.2	X	121.05937	243.18577	10.89499	4.31043	0.1317341	0.24644982	2.5195156	20	11 23.4	20.2
160984 2002 CQ_{104}	16.0	X	189.86218	38.72469	10.01341	6.54909	0.2044024	0.28441043	2.2900187	20	5 10.6	19.9
160985 2002 CK_{109}	16.3	X	198.65025	269.44189	352.42787	7.75207	0.0882943	0.25978061	2.4325674	20	—	—
160986 2002 CX_{113}	16.1	X	138.35899	124.91257	130.37543	7.53087	0.1541529	0.25058242	2.4917377	20	12 13.4	20.2
160987 2002 CV_{118}	15.4	X	187.60924	245.62311	343.22727	11.51353	0.1589583	0.25483173	2.4639604	20	12 28.4	19.2
160988 2002 CK_{131}	16.5	X	158.31189	97.36631	309.43195	4.31421	0.1080367	0.28003881	2.3137898	20	4 3.8	19.8
160989 2002 CY_{142}	16.7	X	250.08914	71.65685	156.77119	3.85229	0.1072052	0.26601099	2.3944347	20	—	—
160990 2002 CF_{167}	15.9	X	111.78586	187.47144	44.22301	4.84264	0.1328588	0.24228506	2.5483063	20	10 19.0	19.6
160991 2002 CP_{168}	15.3	X	331.29648	186.60866	350.21435	15.80626	0.1444674	0.21416009	2.7667953	20	1 4.3	19.1
160992 2002 CE_{192}	16.4	X	157.19189	206.48323	84.34806	3.52349	0.1932882	0.26140467	2.4224816	20	—	—
160993 2002 CR_{202}	15.8	X	271.18621	79.00454	82.41354	3.19413	0.0171250	0.20435601	2.8545946	20	—	—
160994 2002 CS_{205}	15.6	X	253.44488	79.15946	329.64543	5.88233	0.1021269	0.18560311	3.0437750	20	7 24.5	19.9
160995 2002 CN_{218}	16.4	X	108.83073	72.68896	6.99497	4.50044	0.1502948	0.27642896	2.3338898	20	3 28.3	19.3
160996 2002 CE_{239}	16.0	X	223.60034	253.74044	315.78721	5.99999	0.0572384	0.25550906	2.4596039	20	—	—
160997 2002 CO_{254}	15.4	X	329.36979	49.29339	319.72189	11.53878	0.1092190	0.19252379	2.9703875	20	9 15.8	19.1
160998 2002 CA_{255}	16.7	X	48.58571	0.17665	209.87537	4.99268	0.1182711	0.28436321	2.2902723	20	7 1.0	19.1
160999 2002 CS_{296}	16.2	X	226.51386	307.53291	133.41337	2.21247	0.2049503	0.18616265	3.0376730	20	7 23.0	21.0
161000 2002 CZ_{302}	16.5	X	195.34817	312.11563	0.14408	2.14861	0.2053459	0.26936554	2.3745138	20	1 19.9	20.4
161001 2002 CG_{310}	16.2	X	239.69991	78.41112	297.55409	3.56810	0.2710033	0.28936124	2.2638230	20	5 8.4	20.0
161002 2002 CQ_{314}	16.3	X	185.25308	147.86275	176.05199	6.65563	0.1326038	0.26833960	2.3805622	20	1 20.4	20.0
161003 2002 DA_{2}	12.3	X	232.12238	5.69980	109.51707	32.20358	0.0337250	0.08216623	5.2401107	20	9 26.4	19.7
161004 2002 DV_{3}	16.4	X	272.20334	176.03456	86.30415	23.98887	0.0536691	0.37888026	1.8914785	20	1 23.5	18.7
161005 2002 DV_{19}	16.5	X	211.52792	40.14054	225.46977	4.00638	0.1186759	0.26411692	2.4058686	20	—	—
161006 2002 EV_{2}	16.0	X	61.86886	115.68673	11.39462	2.31630	0.1551071	0.27427088	2.3461166	20	3 25.4	18.1
161007 2002 EL_{32}	17.5	X	307.16856	316.77900	192.31893	0.90966	0.1284523	0.26009357	2.4306158	20	—	—
161008 2002 EO_{40}	16.2	X	97.73769	67.08106	13.64271	2.37463	0.1874444	0.27357579	2.3500888	20	3 21.4	19.1
161009 2002 EP_{41}	16.3	X	173.63140	117.14700	294.68286	4.43312	0.1647542	0.28305731	2.2973110	20	4 29.4	20.0
161010 2002 EK_{46}	15.9	X	68.90984	289.97169	334.35078	9.43284	0.1789641	0.23740677	2.5830966	20	10 14.4	19.8
161011 2002 EU_{47}	16.1	X	227.99320	273.36852	181.08335	4.10883	0.1361511	0.18708887	3.0276389	20	8 16.0	20.8
161012 2002 EK_{65}	16.1	X	67.88190	335.65881	340.01059	2.86330	0.1446038	0.24621767	2.5210990	20	12 18.3	19.7
161013 2002 EF_{74}	15.9	X	123.11026	15.13522	215.63434	4.53146	0.1191935	0.23993091	2.5649481	20	10 27.2	19.9
161014 2002 ES_{80}	16.2	X	169.49674	147.74054	253.17782	4.20369	0.1567499	0.28197447	2.3031887	20	4 11.2	19.6
161015 2002 EY_{86}	16.2	X	320.60384	131.16128	46.29756	3.04053	0.1419651	0.26332961	2.4106616	20	—	—
161016 2002 EG_{92}	15.4	X	59.41557	246.54297	178.39341	13.29068	0.0995515	0.20956552	2.8070889	20	—	—
161017 2002 EP_{106}	12.5	X	285.92081	291.17601	126.75361	10.11115	0.0365590	0.08029300	5.3212982	20	9 13.5	19.5
161018 2002 EU_{107}	12.4	X	308.39122	302.94326	121.36445	12.02280	0.0537644	0.08533134	5.1097187	20	10 18.2	19.1
161019 2002 EM_{115}	16.2	X	166.52017	352.61659	321.24489	6.06467	0.0869371	0.26190612	2.4193886	20	—	—
161020 2002 EK_{158}	13.4	X	310.86158	261.64282	143.23692	1.67000	0.0591553	0.08402988	5.1623435	20	9 24.3	20.0
161021 2002 EC_{161}	16.6	X	93.51174	105.72186	164.22993	3.10832	0.1695147	0.24396769	2.5365757	20	11 20.2	20.5
161022 2002 EP_{161}	16.0	X	174.84392	26.93019	320.42048	22.10238	0.1600365	0.27178292	2.3604127	20	2 10.6	19.7
161023 2002 FL_{2}	16.3	X	23.36025	303.27463	154.05605	7.82540	0.0881180	0.26404424	2.4063101	20	—	—
161024 2002 FM_{7}	12.5	X	339.25334	357.10766	8.14721	21.13221	0.0241579	0.08290874	5.2087780	20	9 19.2	19.3
161025 2002 FP_{11}	16.1	X	124.57021	188.71304	172.29686	6.07409	0.1140686	0.26229290	2.4170095	20	—	—
161026 2002 FP_{32}	16.2	X	189.09900	313.41964	81.85192	6.31693	0.1701032	0.28344275	2.2952279	20	4 26.7	19.8
161027 2002 FM_{38}	12.7	X	345.56523	336.20954	41.44068	7.32215	0.0837876	0.08286317	5.2106874	20	10 8.1	19.1
161028 2002 GS_{7}	15.1	X	111.16139	87.66340	158.90862	9.85396	0.0547214	0.18661535	3.0327583	20	10 24.7	19.6
161029 2002 GJ_{42}	15.9	X	160.75736	333.63236	34.69617	6.97141	0.1569773	0.26698306	2.3886192	20	2 26.9	19.5
161030 2002 GR_{62}	15.6	X	184.30485	188.85473	55.09872	2.89930	0.0333894	0.19591551	2.9360053	20	—	—
161031 2002 GA_{65}	16.2	X	32.77708	152.57491	94.18606	3.36432	0.1508981	0.22620307	2.6677004	20	7 31.1	19.1
161032 2002 GP_{65}	15.6	X	124.34426	186.47118	76.89660	2.97667	0.0499530	0.19046996	2.9917024	20	11 26.0	20.1
161033 2002 GW_{84}	15.6	X	45.58624	276.47167	72.23084	8.78762	0.0079375	0.24543419	2.5264615	20	12 15.5	19.0
161034 2002 GT_{93}	15.7	X	43.86894	260.56004	7.04535	15.38048	0.1369285	0.23180366	2.6245561	20	9 17.1	19.0
161035 2002 GH_{95}	15.3	X	177.01885	30.70599	229.93828	11.08623	0.0060282	0.19818761	2.9135225	20	—	—
161036 2002 GL_{101}	15.9	X	64.62394	259.46007	41.52922	1.05887	0.0557621	0.24162652	2.5529344	20	11 14.2	19.3
161037 2002 GV_{104}	15.7	X	348.28651	170.94674	154.14517	11.60499	0.2067142	0.22922846	2.6441760	20	9 3.7	17.8
161038 2002 GJ_{109}	17.2	X	96.84717	65.13377	51.72444	21.69161	0.1203153	0.38306582	1.8776751	20	4 28.3	18.9
161039 2002 GY_{126}	15.9	X	344.39250	103.81632	201.19952	12.09967	0.2804401	0.22468780	2.6796808	20	7 15.3	18.1
161040 2002 GQ_{155}	15.0	X	61.62393	141.97714	143.21900	9.81287	0.1187922	0.18445408	3.0564024	20	10 23.4	19.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
161041 2002 GQ_{159}	15.7	X	9.16862	307.15708	9.08830	5.87696	0.2241893	0.23157697	2.6262686	20	10 8.8	18.1
161042 2002 GO_{162}	16.0	X	45.18080	223.42971	58.63828	4.80588	0.1797635	0.23400127	2.6080980	20	10 14.3	19.4
161043 2002 GL_{170}	16.0	X	39.38989	259.66662	22.57267	8.37657	0.1085031	0.23200749	2.6230186	20	9 25.3	19.3
161044 2002 GG_{181}	12.3	X	315.66597	146.56250	262.92262	11.65490	0.0572008	0.08291660	5.2084488	20	9 29.9	19.1
161045 2002 GB_{182}	16.3	X	38.35716	49.51504	240.73777	4.21582	0.0922720	0.23368728	2.6104337	20	9 28.4	19.5
161046 2002 HP_{3}	16.1	X	352.14167	144.15410	136.88178	9.84747	0.2668936	0.22319751	2.6915957	20	6 30.9	18.0
161047 2002 JK_{1}	15.4	X	294.16005	111.28286	215.21042	13.56383	0.2260151	0.21853323	2.7297595	20	5 11.5	18.9
161048 2002 JA_{6}	15.9	X	18.73307	174.93598	137.12839	10.79462	0.1810673	0.23173441	2.6250789	20	10 18.6	19.1
161049 2002 JV_{12}	15.8	X	334.17552	228.83230	62.74256	13.13635	0.1593303	0.22169721	2.7037253	20	6 8.6	18.7
161050 2002 JE_{15}	15.1	X	335.29861	191.97818	65.48405	13.61349	0.1237540	0.21836038	2.7311999	20	4 30.6	18.4
161051 2002 JW_{24}	15.7	X	41.37533	184.78046	56.45356	14.00296	0.1123151	0.22616953	2.6679641	20	8 4.7	19.2
161052 2002 JA_{29}	15.6	X	130.68281	355.70027	221.70051	14.38944	0.0828376	0.23680959	2.5874375	20	10 14.9	19.5
161053 2002 JO_{32}	15.2	X	339.25932	245.90621	60.50796	15.63280	0.0729501	0.22522565	2.6754129	20	7 19.2	18.7
161054 2002 JD_{44}	15.7	X	45.08180	7.67584	251.42205	7.26457	0.1914003	0.22982738	2.6395803	20	9 8.6	19.1
161055 2002 JV_{46}	15.6	X	328.64001	338.68633	346.54379	6.56376	0.2249466	0.22507026	2.6766442	20	7 14.8	18.0
161056 2002 JG_{53}	15.1	X	111.99266	294.49615	31.06487	8.95398	0.0756636	0.19426641	2.9525974	20	—	—
161057 2002 JL_{74}	15.3	X	122.16715	269.56051	282.54781	6.35432	0.1416910	0.23407122	2.6075783	20	9 5.0	19.5
161058 2002 JK_{78}	16.2	X	51.46081	245.61555	13.55996	2.44991	0.1547465	0.23135749	2.6279293	20	9 16.6	19.6
161059 2002 JE_{83}	16.2	X	146.84932	293.62770	253.86522	2.47425	0.1168679	0.23675216	2.5878559	20	9 25.1	20.2
161060 2002 JZ_{85}	15.8	X	352.98309	48.39087	255.90963	4.56067	0.1518313	0.22668080	2.6639510	20	8 6.8	18.5
161061 2002 JN_{99}	15.5	X	130.07886	106.53133	143.19351	13.81077	0.1603327	0.24151370	2.5537294	20	11 30.2	19.9
161062 2002 JY_{102}	15.3	X	271.79019	226.99340	80.62386	12.40403	0.1894506	0.21212578	2.7844564	20	4 1.9	19.7
161063 2002 JJ_{106}	15.6	X	358.36177	199.00546	118.79442	14.91960	0.2428543	0.22783455	2.6549499	20	9 27.4	18.2
161064 2002 JJ_{107}	15.7	X	340.02097	275.95407	9.88485	12.50265	0.1776196	0.22232173	2.6986596	20	6 9.2	18.7
161065 2002 JR_{143}	15.9	X	61.65638	142.83345	113.24329	14.09880	0.1378587	0.23370117	2.6103302	20	9 29.9	19.7
161066 2002 KB_{2}	15.9	X	7.43950	215.04195	72.01237	6.49045	0.1407366	0.22718818	2.6599832	20	8 13.9	18.7
161067 2002 KE_{9}	15.1	X	296.65466	262.33331	84.42375	13.68895	0.1930813	0.22194578	2.7017062	20	6 16.9	18.4
161068 2002 KY_{11}	16.1	X	329.66265	214.89227	109.83404	2.28470	0.0999338	0.22596506	2.6695733	20	7 26.0	19.1
161069 2002 LG_{8}	16.2	X	268.21025	87.76733	215.22163	7.05656	0.2533036	0.21058188	2.7980495	20	3 7.9	20.8
161070 2002 LU_{14}	16.8	X	131.61540	48.52637	270.76498	3.89073	0.1922006	0.30140469	2.2031093	20	—	—
161071 2002 LC_{25}	16.9	X	113.47391	231.58454	104.83907	5.60408	0.2333725	0.30057287	2.2071721	20	—	—
161072 2002 LQ_{28}	15.9	X	76.09546	187.86181	108.89277	11.99010	0.1195530	0.23563085	2.5960593	20	12 1.2	19.8
161073 2002 LH_{35}	15.6	X	172.19892	65.93048	246.47568	19.89848	0.3785681	0.19124711	2.9835922	20	1 12.2	21.5
161074 2002 LR_{37}	15.2	X	335.49616	126.56990	185.88758	13.65550	0.2153023	0.21845057	2.7304481	20	7 7.6	18.1
161075 2002 LR_{38}	15.9	X	23.31488	39.18718	185.10879	13.36273	0.1399156	0.21944650	2.7221806	20	6 9.0	19.2
161076 2002 LY_{40}	15.5	X	274.64559	168.06492	129.87362	10.21606	0.2303541	0.21008280	2.8024792	20	3 15.7	19.9
161077 2002 LB_{43}	15.2	X	225.18445	173.43052	152.40806	11.23319	0.1380893	0.20418786	2.8561616	20	3 8.9	19.7
161078 2002 LE_{57}	14.3	X	351.80645	96.83952	262.96542	13.90090	0.0956484	0.17199514	3.2022748	20	10 4.4	18.7
161079 2002 LP_{61}	15.3	X	125.12951	30.49379	166.83546	10.58385	0.1663564	0.17724970	3.1386704	20	9 13.6	20.3
161080 2002 MC_{1}	13.9	X	209.10860	71.39414	303.85308	15.32205	0.1813226	0.19948515	2.9008749	20	4 12.2	19.0
161081 2002 NR_{2}	16.0	X	312.01288	105.93326	258.29855	9.11669	0.3126790	0.27732888	2.3288382	20	7 24.8	17.5
161082 2002 NS_{8}	15.4	X	254.37282	230.97313	126.17593	13.94083	0.1284595	0.21237863	2.7822459	20	5 20.4	19.7
161083 2002 NU_{23}	15.5	X	276.58364	145.46081	133.77361	15.84257	0.1279918	0.20414788	2.8565344	20	3 7.6	19.7
161084 2002 NM_{64}	17.4	X	340.80814	299.20884	341.84977	2.04131	0.2087054	0.27143631	2.3624217	20	6 2.8	18.9
161085 2002 OR_{3}	14.3	X	60.84909	109.24372	252.71966	8.96902	0.1130251	0.17651218	3.1474072	20	—	—
161086 2002 OZ_{3}	14.6	X	114.63004	148.41524	215.12811	19.89125	0.2553849	0.18402534	3.0611478	20	1 18.3	19.6
161087 2002 OS_{8}	15.5	X	230.60724	102.10885	262.55919	2.15279	0.0905422	0.20827507	2.8186719	20	5 2.4	19.6
161088 2002 OJ_{10}	14.8	X	85.50841	122.65965	277.18708	9.52652	0.0762916	0.18901537	3.0070315	20	1 6.5	18.8
161089 2002 OY_{10}	16.5	X	72.60303	241.30329	140.51645	10.03659	0.1888189	0.23960172	2.5672969	20	—	—
161090 2002 ON_{13}	15.4	X	233.83270	47.31780	247.11923	9.86632	0.1364405	0.19988177	2.8970362	20	2 4.6	20.2
161091 2002 OR_{14}	16.4	X	78.44189	104.28133	279.38643	13.80724	0.1589527	0.24050834	2.5608411	20	—	—
161092 Zsigmond	15.6	X	87.48300	253.95139	113.37522	4.82051	0.0813453	0.18584313	3.0411538	20	—	—
161093 2002 PH_{44}	16.3	X	78.66481	206.28447	160.77571	3.55357	0.1814551	0.29055422	2.2576221	20	—	—
161094 2002 PS_{45}	14.1	X	17.91361	108.97396	330.90369	25.59433	0.2328317	0.17928279	3.1148967	20	—	—
161095 2002 PL_{56}	14.9	X	111.83509	74.93824	318.00257	14.45490	0.1268926	0.19133162	2.9827136	20	2 7.0	19.1
161096 2002 PP_{92}	14.9	X	95.86975	334.50594	30.22322	9.57257	0.1396240	0.18439425	3.0570635	20	—	—
161097 2002 PP_{111}	15.3	X	274.65618	14.04270	333.06913	12.64455	0.1677034	0.21145831	2.7903127	20	5 17.6	19.5
161098 2002 PS_{118}	16.4	X	333.39699	131.96617	274.91692	6.23298	0.0926098	0.28347503	2.2950537	20	12 13.6	18.7
161099 2002 PN_{124}	16.6	X	282.92803	255.02471	166.81194	4.16909	0.1307772	0.27722011	2.3294473	20	9 30.9	18.7
161100 2002 PQ_{124}	16.9	X	357.48697	298.79482	155.33807	4.86919	0.0607767	0.29512918	2.2342304	20	—	—
161101 2002 PL_{154}	15.9	X	228.51074	124.03974	193.61404	1.57408	0.2016875	0.20084682	2.8877488	20	2 27.0	20.8
161102 2002 PU_{165}	15.9	X	148.69372	41.32422	321.50019	0.97255	0.1343249	0.19335715	2.9618466	20	2 10.8	20.6
161103 2002 PT_{169}	17.6	X	324.37564	307.39221	115.55602	1.17045	0.2641174	0.28138566	2.3064006	20	—	—
161104 2002 PF_{174}	15.5	X	90.25744	235.57939	156.22928	7.94789	0.1340287	0.18857153	3.0117480	20	1 10.6	19.6
161105 2002 QS_{7}	15.0	X	104.01260	276.61874	115.81686	11.02250	0.1214414	0.19145361	2.9814464	20	1 27.7	19.1
161106 2002 QK_{14}	15.1	X	126.92740	156.45423	227.44828	8.06129	0.0964043	0.19269214	2.9686572	20	2 6.1	19.6
161107 2002 QR_{16}	15.2	X	139.11318	167.65324	194.90649	11.40948	0.0857734	0.19147633	2.9812106	20	1 24.4	19.8
161108 2002 QT_{27}	15.2	X	107.48530	250.54608	118.58958	10.53144	0.0217101	0.18895781	3.0076421	20	—	—
161109 2002 QA_{46}	15.3	X	285.00319	9.41626	334.00696	8.06556	0.1531834	0.21318040	2.7752655	20	5 30.9	19.2
161110 2002 QA_{54}	15.6	X	50.63303	297.82068	148.26433	10.05957	0.0448711	0.19068098	2.9894948	20	1 12.9	19.6
161111 2002 QS_{56}	15.6	X	177.76412	253.29867	107.62943	3.11436	0.0764946	0.19745322	2.9207423	20	3 5.8	19.9
161112 2002 QX_{57}	15.4	X	185.09259	263.15860	348.56306	6.38084	0.1616508	0.18440219	3.0569758	20	—	—
161113 2002 QX_{98}	15.5	X	163.52034	229.20816	103.68275	8.53521	0.0193937	0.19105589	2.9855827	20	1 12.4	19.6
161114 2002 RC_{2}	16.4	X	318.18257	166.89394	243.96370	1.01879	0.1693401	0.27825476	2.3236693	20	11 23.3	18.1
161115 2002 RL_{2}	14.8	X	48.68382	292.42368	145.11507	3.35922	0.0825204	0.18644531	3.0346020	20	1 3.3	18.5
161116 2002 RL_{5}	14.3	X	198.52636	224.05795	334.58368	25.38688	0.1353583	0.17247357	3.1963502	20	11 8.1	19.8
161117 2002 RO_{13}	15.4	X	83.47585	207.40100	143.36248	2.17072	0.1571695	0.17932760	3.1143778	20	—	—
161118 2002 RB_{17}	15.0	X	102.66298	237.86781	165.46542	9.73745	0.0727189	0.19033675	2.9930981	20	1 30.8	19.3
161119 2002 RK_{17}	15.2	X	153.89507	237.32555	169.74227	5.38616	0.2523093	0.19660131	2.9291736	20	4 16.1	20.2
161120 2002 RH_{18}	14.5	X	46.76405	70.74989	356.96866	15.63000	0.2525981	0.18193877	3.0845078	20	1 4.8	17.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
161121 2002 RZ_{18}	16.0	X	259.14691	14.40801	37.48567	2.52244	0.1533572	0.26899612	2.3766873	20	8 3.8	18.9
161122 2002 RH_{21}	14.9	X	76.37269	253.96501	164.55088	20.36829	0.2695813	0.18556001	3.0442464	20	2 13.3	18.8
161123 2002 RA_{37}	15.2	X	124.55248	54.50626	323.45895	8.59135	0.0687547	0.19087553	2.9874631	20	1 28.1	19.4
161124 2002 RH_{44}	15.0	X	138.55917	191.42749	141.61678	9.32036	0.1396981	0.18674891	3.0313122	20	—	—
161125 2002 RY_{58}	14.9	X	57.55820	154.42367	265.27637	4.51228	0.1193084	0.18453406	3.0555193	20	—	—
161126 2002 RH_{61}	14.1	X	32.00262	43.31603	13.46768	23.80326	0.2279512	0.17737499	3.1371922	20	—	—
161127 2002 RW_{68}	15.3	X	159.11219	319.86370	345.98108	9.07710	0.0911626	0.18538244	3.0461900	20	—	—
161128 2002 RG_{77}	15.3	X	101.06263	25.98271	330.55987	3.05914	0.1968655	0.18361872	3.0656653	20	—	—
161129 2002 RG_{80}	15.3	X	228.26718	307.99492	354.18437	1.38925	0.0939097	0.19551962	2.9399672	20	2 14.9	19.7
161130 2002 RL_{82}	14.8	X	102.25944	285.84145	4.05185	12.19576	0.1001144	0.17374557	3.1807306	20	12 1.6	19.8
161131 2002 RR_{87}	16.2	X	96.60059	332.75374	12.44022	6.49503	0.1305265	0.29109920	2.2548035	20	—	—
161132 2002 RK_{96}	15.2	X	80.52549	4.41649	0.08456	7.21343	0.1063295	0.17886874	3.1197018	20	—	—
161133 2002 RR_{108}	15.0	X	132.82718	214.82035	168.20234	10.18357	0.0282193	0.19189215	2.9769022	20	2 4.9	19.3
161134 2002 RJ_{111}	14.8	X	105.48442	345.39271	345.04619	11.58982	0.1224106	0.17724318	3.1387474	20	—	—
161135 2002 RB_{116}	16.4	X	43.79857	193.43540	84.53926	3.49201	0.2107851	0.27611262	2.3356721	20	10 19.3	19.2
161136 2002 RT_{117}	14.5	X	184.34818	328.57464	322.36988	10.27827	0.0196907	0.18492301	3.0512333	20	—	—
161137 2002 RN_{136}	15.0	X	161.19066	192.92680	136.29744	11.11737	0.1003930	0.18898142	3.0073915	20	1 12.2	19.6
161138 2002 RD_{138}	14.6	X	102.08600	346.01034	6.17958	17.99272	0.1495038	0.18356705	3.0662406	20	—	—
161139 2002 RJ_{150}	15.0	X	102.26137	64.71647	310.21218	7.91492	0.0935361	0.18520968	3.0480840	20	1 1.8	19.3
161140 2002 RA_{152}	14.8	X	161.32149	38.81582	310.84186	10.77590	0.0152946	0.19162179	2.9797016	20	1 29.6	19.0
161141 2002 RD_{152}	15.9	X	140.11955	64.34344	314.06783	9.79964	0.2396055	0.19161829	2.9797379	20	2 27.6	20.9
161142 2002 RG_{152}	14.9	X	209.53457	287.91452	317.25576	11.63228	0.0734095	0.18345820	3.0674533	20	—	—
161143 2002 RR_{161}	15.5	X	121.78538	208.71708	172.06569	7.47560	0.1128692	0.19003071	2.9963108	20	1 31.7	20.0
161144 2002 RL_{202}	14.7	X	105.93952	33.19200	324.51908	11.03410	0.1081807	0.18354078	3.0665332	20	—	—
161145 2002 RA_{204}	15.5	X	107.79780	211.55153	156.70495	10.28337	0.1000477	0.18772523	3.0207929	20	—	—
161146 2002 RH_{245}	15.6	X	192.95881	258.93963	97.13166	3.11701	0.0991844	0.20000548	2.8958415	20	3 15.9	20.0
161147 2002 RW_{254}	15.8	X	278.50501	318.54640	302.64433	1.49738	0.1264595	0.19864962	2.9090033	20	2 14.3	20.0
161148 2002 SN_{15}	14.3	X	85.81172	25.05080	303.51271	15.81772	0.0918491	0.17472775	3.1687998	20	—	—
161149 2002 SA_{20}	17.1	X	353.00897	75.61288	16.06878	2.86706	0.1184255	0.28924663	2.2644210	20	—	—
161150 2002 SL_{25}	17.5	X	200.46018	184.95531	149.28992	4.65676	0.1909779	0.30625789	2.1797726	20	2 15.4	20.8
161151 2002 SH_{27}	14.8	X	76.31286	172.47797	170.06341	9.70885	0.0707692	0.17454018	3.1710696	20	—	—
161152 2002 SR_{28}	16.0	X	203.17937	156.62499	294.28714	20.37068	0.1029315	0.37462410	1.9057777	20	7 29.5	18.3
161153 2002 SF_{30}	15.0	X	69.10756	318.61925	40.65973	17.12273	0.1372071	0.17773739	3.1329263	20	—	—
161154 2002 SV_{36}	15.5	X	99.74209	163.22243	201.16266	4.12169	0.1542831	0.18154505	3.0889659	20	—	—
161155 2002 SY_{36}	16.7	X	254.70349	47.53063	350.14608	2.19520	0.1994879	0.26449698	2.4035634	20	6 30.8	19.9
161156 2002 SZ_{37}	15.3	X	107.35355	249.07215	111.01777	2.44252	0.2540674	0.18272099	3.0756985	20	1 11.8	19.8
161157 2002 SJ_{39}	15.5	X	102.19125	227.70148	143.87559	6.02042	0.1355905	0.18299711	3.0726038	20	1 3.0	19.7
161158 2002 ST_{52}	14.4	X	106.25592	234.14353	41.28821	18.80245	0.2229900	0.17391550	3.1786584	20	11 26.4	19.9
161159 2002 SH_{57}	16.1	X	45.75783	243.77515	120.29753	6.20662	0.1770153	0.28590641	2.2820235	20	—	—
161160 2002 SZ_{66}	15.0	X	63.01451	245.73199	148.78491	14.37900	0.1701956	0.17932269	3.1144346	20	—	—
161161 2002 TX	15.4	X	93.80741	328.92027	21.10884	8.77117	0.1835996	0.18050169	3.1008579	20	—	—
161162 2002 TH_{1}	15.1	X	71.06196	300.28996	62.23707	6.09925	0.1483185	0.17846176	3.1244429	20	—	—
161163 2002 TZ_{1}	16.5	X	59.47865	25.40273	356.24691	2.47171	0.1897472	0.23305734	2.6151355	20	—	—
161164 2002 TE_{9}	15.5	X	126.09897	257.11636	58.62509	2.28224	0.1588786	0.18150039	3.0894726	20	—	—
161165 2002 TH_{17}	14.9	X	54.26100	54.40210	356.71765	10.36099	0.0920656	0.18173658	3.0867952	20	—	—
161166 2002 TD_{24}	15.3	X	103.95079	350.81768	32.35018	4.25826	0.1858133	0.18476342	3.0529900	20	1 27.3	19.6
161167 2002 TP_{26}	15.3	X	155.04606	259.05698	56.57254	2.36824	0.2095233	0.18420772	3.0591269	20	—	—
161168 2002 TQ_{33}	16.8	X	293.77392	255.09784	71.01804	4.48145	0.2052488	0.26408062	2.4060890	20	5 12.4	19.5
161169 2002 TY_{38}	14.5	X	101.53912	101.36223	217.02201	15.05108	0.2254370	0.17460114	3.1703314	20	—	—
161170 2002 TX_{47}	16.2	X	99.67280	268.98493	155.23053	2.78080	0.1293848	0.24248323	2.5469177	20	2 24.8	19.3
161171 2002 TY_{52}	14.5	X	35.26128	138.87634	237.23614	15.72731	0.1493538	0.16949292	3.2337146	20	—	—
161172 2002 TH_{55}	14.6	X	106.83068	290.71298	12.94797	16.12517	0.2286940	0.17770142	3.1333491	20	—	—
161173 2002 TW_{62}	15.0	X	90.00824	50.95035	251.06212	4.19898	0.1426845	0.17219526	3.1997932	20	12 9.5	19.8
161174 2002 TD_{68}	16.4	X	279.08683	71.61207	210.21883	20.46127	0.0702263	0.36488452	1.9395416	20	2 23.2	19.0
161175 2002 TX_{70}	14.7	X	95.10732	41.89990	314.49271	9.70695	0.0833643	0.17948950	3.1125047	20	—	—
161176 2002 TT_{75}	15.1	X	140.18449	359.52526	342.73724	8.31885	0.1617513	0.18553834	3.0444833	20	1 14.7	19.8
161177 2002 TS_{89}	15.3	X	86.97951	104.88234	220.01815	10.74870	0.1929729	0.17449106	3.1716646	20	—	—
161178 2002 TM_{99}	15.0	X	176.79771	27.43318	240.21193	10.63163	0.0794512	0.18125927	3.0922118	20	—	—
161179 2002 TQ_{100}	14.8	X	182.66047	38.18160	262.71925	5.31354	0.0869735	0.18737262	3.0245815	20	—	—
161180 2002 TO_{105}	14.8	X	118.69163	63.25958	279.66690	7.81148	0.0043881	0.18344516	3.0675987	20	—	—
161181 2002 TH_{110}	14.9	X	123.10260	255.90397	42.27881	26.80694	0.2373703	0.17870859	3.1215653	20	—	—
161182 2002 TO_{120}	15.0	X	150.10811	356.20166	336.18841	9.01476	0.1070037	0.18447295	3.0561940	20	1 7.7	19.7
161183 2002 TV_{122}	14.8	X	128.97857	322.34020	322.78861	14.73735	0.0393618	0.17631118	3.1497988	20	12 24.6	19.7
161184 2002 TL_{126}	14.8	X	113.33741	334.67361	77.38366	5.95884	0.1334915	0.19152029	2.9807544	20	3 6.7	19.1
161185 2002 TZ_{127}	14.8	X	223.90326	294.53665	313.23758	8.52062	0.0459101	0.18402522	3.0611491	20	—	—
161186 2002 TW_{135}	14.6	X	119.96579	62.55856	302.95674	8.91860	0.1432132	0.18401034	3.0613141	20	1 17.9	19.0
161187 2002 TD_{139}	14.9	X	96.75019	95.34516	274.81595	6.53670	0.1790423	0.18114304	3.0935344	20	1 1.2	19.1
161188 2002 TA_{157}	14.4	X	48.37672	278.07979	50.96463	23.88705	0.1236122	0.16894982	3.2406408	20	11 21.5	18.9
161189 2002 TU_{179}	15.7	X	135.90124	130.54419	276.42043	14.04250	0.1293443	0.24521369	2.5279758	20	3 8.9	19.7
161190 2002 TW_{180}	14.8	X	69.44289	41.91762	357.01847	14.61897	0.2265194	0.17753193	3.1353430	20	1 8.4	18.8
161191 2002 TZ_{183}	15.2	X	67.54700	74.40998	321.93680	8.06035	0.0997388	0.18191201	3.0848103	20	—	—
161192 2002 TN_{196}	17.1	X	197.06629	92.69341	359.73854	1.58463	0.1676201	0.26169996	2.4206590	20	7 16.4	20.9
161193 2002 TG_{199}	15.4	X	33.87393	116.73130	274.95681	12.23513	0.1732796	0.22982747	2.6395796	20	—	—
161194 2002 TS_{206}	15.9	X	316.43787	218.28269	260.85409	5.15050	0.1601533	0.22762701	2.6565634	20	—	—
161195 2002 TS_{227}	14.9	X	65.99931	307.61238	82.81436	6.02817	0.1568676	0.17764624	3.1339979	20	—	—
161196 2002 TN_{229}	15.6	X	104.53738	303.38364	50.01049	1.61244	0.1451012	0.18053520	3.1004742	20	—	—
161197 2002 TU_{231}	14.1	X	35.80649	282.65507	156.10541	26.21053	0.2391650	0.17918157	3.1160696	20	—	—
161198 2002 TB_{237}	15.7	X	59.09039	57.45820	331.64640	10.77620	0.2053573	0.23306728	2.6150611	20	—	—
161199 2002 TA_{245}	15.1	X	91.56838	185.66405	141.42360	6.75535	0.1774742	0.17533741	3.1614501	20	—	—
161200 2002 TO_{254}	15.4	X	263.04061	53.21200	51.88667	12.09185	0.0748612	0.21891026	2.7266243	20	10 27.9	19.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
161201 2002 TT_{254}	14.8	X	101.62130	265.87460	57.19411	12.22293	0.2578629	0.17626498	3.1503492	20	—	—
161202 2002 TN_{257}	16.9	X	265.52150	268.70532	91.48692	2.64511	0.2279191	0.26201353	2.4187273	20	5 19.7	20.4
161203 2002 TT_{269}	14.9	X	71.84861	14.25248	351.92394	12.12146	0.0892590	0.17761035	3.1344201	20	—	—
161204 2002 TK_{270}	14.8	X	64.61945	157.02668	211.76880	12.18380	0.0642503	0.17656527	3.1467762	20	—	—
161205 2002 TA_{271}	15.4	X	100.48475	38.23527	331.66502	5.53704	0.1586180	0.18255883	3.0775195	20	1 3.1	19.6
161206 2002 TG_{292}	16.3	X	268.75012	71.59926	271.93291	5.64537	0.1130541	0.25862928	2.4397814	20	5 15.6	19.5
161207 Lidz	15.2	X	139.78343	144.76208	119.50909	6.66386	0.1539538	0.17401106	3.1774945	20	12 11.9	20.4
161208 2002 UQ_{5}	15.1	X	151.47818	182.63143	103.48532	7.05981	0.1320180	0.17848710	3.1241472	20	—	—
161209 2002 UW_{5}	14.9	X	97.67873	289.44029	65.90973	22.02535	0.1808140	0.18100102	3.0951524	20	—	—
161210 2002 UG_{6}	16.0	X	261.61199	280.74819	113.72862	7.74761	0.1210359	0.26529709	2.3987283	20	7 17.2	19.0
161211 2002 UA_{7}	14.7	X	116.26647	211.65550	170.40805	13.63221	0.1580433	0.18547413	3.0451860	20	2 1.9	19.2
161212 2002 UE_{19}	15.9	X	350.36927	238.44355	221.35586	11.45909	0.1642582	0.22852176	2.6496246	20	—	—
161213 2002 UK_{31}	14.7	X	64.99653	69.09403	285.39684	7.77143	0.0741361	0.17379027	3.1801852	20	—	—
161214 2002 UU_{47}	15.0	X	71.75015	199.60983	129.03329	2.39884	0.1876613	0.17116857	3.2125757	20	12 26.6	20.0
161215 Loveday	16.4	X	350.85563	206.80481	143.99176	3.86950	0.0484280	0.21874218	2.7280209	20	10 5.7	19.8
161216 2002 VR_{6}	15.0	X	7.15891	56.50402	341.32608	4.00409	0.1095251	0.16877707	3.2428517	20	12 20.2	19.2
161217 2002 VS_{54}	15.1	X	74.05055	231.96208	109.97525	2.44068	0.1675550	0.17173131	3.2055537	20	—	—
161218 2002 VD_{85}	14.1	X	38.93645	68.02277	280.39073	12.10002	0.2570030	0.16772257	3.2564297	20	12 23.5	18.7
161219 2002 VW_{138}	16.8	X	300.29852	115.56591	310.68335	4.30565	0.1040594	0.27372494	2.3492350	20	11 7.9	19.1
161220 2002 WH_{17}	15.1	X	24.34658	296.64754	93.19711	10.22411	0.1618982	0.17026942	3.2238756	20	—	—
161221 2002 XJ_{1}	14.9	X	47.98940	180.67384	181.37214	8.28960	0.1684060	0.17065234	3.2190512	20	—	—
161222 2002 XO_{5}	15.4	X	114.68830	287.05331	94.79959	3.00297	0.2999220	0.18447010	3.0562254	20	2 19.5	20.2
161223 2002 XG_{20}	16.6	X	314.29064	117.51267	27.24076	5.69930	0.0998098	0.28543821	2.2845183	20	—	—
161224 2002 XP_{44}	14.9	X	117.89241	77.79503	294.48505	14.50569	0.2181402	0.18456039	3.0552286	20	1 30.4	19.6
161225 2002 XN_{56}	13.8	X	104.05944	102.08038	285.98667	20.17395	0.1694144	0.18295420	3.0730842	20	1 26.2	18.2
161226 2002 XC_{63}	15.8	X	103.41738	335.22914	104.57804	6.05538	0.1588438	0.24166733	2.5526469	20	3 29.1	19.3
161227 2002 XO_{68}	14.8	X	187.40855	231.86394	158.95548	11.30630	0.2060495	0.19613822	2.9337824	20	4 23.5	19.9
161228 2002 XF_{70}	14.8	X	113.79436	226.05454	139.51267	8.31449	0.2246578	0.18065554	3.0990971	20	1 21.1	19.5
161229 2002 XK_{71}	16.2	X	231.13889	222.87751	261.17847	5.48154	0.0757199	0.26644540	2.3918314	20	10 14.3	19.4
161230 2002 XO_{90}	16.1	X	321.54213	311.20245	49.45274	3.05735	0.2414982	0.26442966	2.4039713	20	8 31.9	17.4
161231 2002 XD_{108}	16.6	X	323.10908	194.88947	344.56592	4.20634	0.1056713	0.29244858	2.2478623	20	—	—
161232 2002 YG_{18}	17.2	X	3.74739	338.83669	118.73798	1.66185	0.1114887	0.28465490	2.2887074	20	—	—
161233 2003 AS_{2}	16.0	X	190.11803	281.42837	125.72744	24.18317	0.1165791	0.36260963	1.9476451	20	5 19.7	19.2
161234 2003 AB_{9}	16.6	X	152.57434	265.21156	167.81627	23.37196	0.0953694	0.35772586	1.9653315	20	5 6.7	19.5
161235 2003 AV_{14}	15.7	X	311.97090	196.88449	258.20014	10.21314	0.2633966	0.21553106	2.7550499	20	12 18.6	17.6
161236 2003 AK_{29}	16.5	X	273.80507	200.01029	294.30229	3.20761	0.1414476	0.27212744	2.3584201	20	12 28.0	18.5
161237 2003 AT_{36}	17.5	X	320.65252	260.21991	200.00932	3.81077	0.1939561	0.27701013	2.3306243	20	—	—
161238 2003 AC_{65}	15.0	X	145.44618	10.06152	27.17765	10.30479	0.2880403	0.18654676	3.0335017	20	4 1.2	20.2
161239 2003 AP_{69}	16.2	X	96.62238	264.57780	290.12907	5.02975	0.0958843	0.25349877	2.4725902	20	8 10.5	19.5
161240 2003 BK_{9}	14.9	X	277.59100	22.07414	285.75554	8.86157	0.0705952	0.18738970	3.0243978	20	4 15.4	19.3
161241 2003 BE_{12}	16.9	X	243.71183	59.26434	39.45855	2.66607	0.1475019	0.26111048	2.4243008	20	9 17.9	20.1
161242 2003 BK_{13}	16.2	X	291.85381	283.48218	178.05109	9.94393	0.1256502	0.27035089	2.3687407	20	12 14.9	18.7
161243 2003 BX_{16}	16.4	X	163.51758	174.37146	23.21316	4.89290	0.1274532	0.26009366	2.4306152	20	10 28.1	19.9
161244 2003 BP_{31}	16.3	X	320.91839	109.00061	310.74892	5.39324	0.1781637	0.26972784	2.3723870	20	12 10.3	18.2
161245 2003 BH_{74}	15.7	X	18.31896	352.98869	103.04040	16.55095	0.1344548	0.22582904	2.6706451	20	—	—
161246 2003 BJ_{78}	14.5	X	80.50060	65.95813	305.92048	13.00631	0.2796884	0.17652562	3.1472474	20	—	—
161247 2003 BM_{84}	16.8	X	258.15939	154.47102	32.82392	2.90421	0.1311111	0.27491813	2.3424327	20	—	—
161248 2003 CQ_{17}	16.8	X	49.18103	144.78192	344.32233	3.82274	0.2226424	0.23329073	2.6133910	20	3 18.5	19.2
161249 2003 DA_{4}	16.9	X	346.72028	135.33511	144.69694	4.35354	0.1829438	0.29948056	2.2125357	20	6 21.0	18.1
161250 2003 EL_{20}	16.4	X	287.12230	265.42251	359.80657	3.71239	0.2046539	0.28595931	2.2817421	20	2 10.3	19.7
161251 2003 EQ_{23}	16.5	X	297.89612	6.77639	74.91599	3.23161	0.1851558	0.26665726	2.3905644	20	11 21.0	18.2
161252 2003 EC_{28}	15.7	X	315.96629	162.13155	21.32845	8.89488	0.1416324	0.22255372	2.6967839	20	—	—
161253 2003 EO_{37}	15.5	X	292.62768	150.52565	112.16218	16.87176	0.2001011	0.22943101	2.6426195	20	2 22.7	19.4
161254 2003 EH_{41}	15.6	X	74.63442	316.91818	146.91873	9.96274	0.0704763	0.17467191	3.1694750	20	3 14.1	19.9
161255 2003 EO_{47}	16.0	X	100.23326	232.80725	231.57921	4.72930	0.2702431	0.23916167	2.5704451	20	5 8.3	19.8
161256 2003 EP_{53}	15.7	X	295.89705	113.09030	140.98882	13.29685	0.2296593	0.22523856	2.6753107	20	2 8.7	19.6
161257 2003 FD_{2}	16.7	X	213.91526	82.09959	141.30636	4.06480	0.0822358	0.27174912	2.3606084	20	—	—
161258 2003 FM_{5}	16.2	X	137.08398	203.13719	119.56375	6.63807	0.0344940	0.21637912	2.7478466	20	—	—
161259 2003 FN_{6}	16.3	X	148.68744	295.31751	24.62541	6.18523	0.1742812	0.27177933	2.3604335	20	—	—
161260 2003 FU_{16}	14.8	X	8.44163	163.60930	65.01978	10.55255	0.0549980	0.18135260	3.0911508	20	5 16.4	18.8
161261 2003 FS_{26}	15.4	X	50.41355	186.86039	36.28636	1.76127	0.0172597	0.18615684	3.0377362	20	7 3.3	19.5
161262 2003 FQ_{28}	16.0	X	301.25452	225.44071	67.51112	8.54943	0.1596556	0.29017241	2.2596021	20	4 15.1	18.6
161263 2003 FQ_{31}	16.8	X	333.57428	122.48827	159.58002	1.66294	0.1571341	0.29503433	2.2347092	20	5 24.9	18.4
161264 2003 FQ_{42}	16.2	X	231.74520	95.12257	165.26080	5.92607	0.1125310	0.27719216	2.3296039	20	—	—
161265 2003 FR_{46}	16.5	X	346.21440	278.96230	23.19968	3.76651	0.1877773	0.29934506	2.2132033	20	8 3.7	17.7
161266 2003 FG_{50}	16.1	X	354.87131	214.21403	75.61257	5.74388	0.1999661	0.29692265	2.2252245	20	8 5.6	17.4
161267 2003 FD_{54}	16.5	X	320.48366	310.22492	289.11437	5.89127	0.1129905	0.28587026	2.2822159	20	2 28.3	19.2
161268 2003 FJ_{61}	16.3	X	126.60109	322.75511	133.30225	5.35491	0.2402267	0.23998419	2.5645685	20	5 21.5	20.5
161269 2003 FM_{66}	16.7	X	2.91016	114.64299	160.28241	5.97382	0.1068987	0.29895613	2.2151224	20	7 18.3	18.7
161270 2003 FV_{66}	16.3	X	137.19277	231.48180	44.70244	9.96457	0.1825130	0.26208559	2.4182839	20	—	—
161271 2003 FK_{73}	15.9	X	9.80020	49.59509	151.32075	13.04929	0.1055185	0.23232901	2.6205981	20	4 11.7	19.0
161272 2003 FD_{83}	16.3	X	305.43739	165.09620	98.35632	4.78886	0.1535875	0.28605100	2.2812545	20	3 10.0	19.0
161273 2003 FL_{83}	16.4	X	242.03461	122.41009	132.47174	3.31199	0.2329450	0.27364299	2.3497041	20	—	—
161274 2003 FT_{84}	16.4	X	334.08320	334.96840	309.13250	6.39100	0.1524656	0.29643283	2.2276751	20	5 28.4	18.3
161275 2003 FU_{99}	16.8	X	5.57802	127.86124	358.67735	3.43534	0.0463043	0.22428956	2.6828517	20	—	—
161276 2003 FD_{107}	15.7	X	38.13952	332.36930	191.05978	15.23605	0.1908536	0.23173669	2.6250617	20	4 13.8	18.1
161277 2003 FR_{117}	15.1	X	19.25553	143.38960	110.92733	6.18139	0.1034221	0.18635807	3.0355490	20	7 8.7	18.9
161278 Cesarmendoza	15.8	X	337.84097	263.05370	78.93272	27.28743	0.1394241	0.24388636	2.5371397	20	9 27.4	19.2
161279 2003 FB_{131}	15.5	X	207.30980	349.06724	35.97943	17.49566	0.1786270	0.23655009	2.5893294	20	4 28.7	19.8
161280 2003 GP_{4}	15.8	X	287.68058	277.65287	16.74960	11.52128	0.1989587	0.23043162	2.6349638	20	3 26.3	19.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
161281 2003 GH_{14}	14.9	X	85.62008	350.15981	142.15199	10.72557	0.0508535	0.17882800	3.1201756	20	5 1.9	19.4
161282 2003 GE_{18}	15.5	X	121.93907	244.25511	193.42555	9.20322	0.0842231	0.17513699	3.1638615	20	4 8.9	20.2
161283 2003 GE_{35}	16.2	X	283.17075	191.67442	128.85363	7.05929	0.1369740	0.29069056	2.2569162	20	5 2.2	19.0
161284 2003 GL_{43}	16.3	X	327.58635	165.39996	152.78000	4.24814	0.1349611	0.29732233	2.2232298	20	7 15.2	18.0
161285 2003 HU_{11}	17.0	X	331.19633	160.47209	110.47882	3.05964	0.1168869	0.29170989	2.2516555	20	5 7.8	19.1
161286 2003 HZ_{19}	17.0	X	212.52432	292.36322	350.43128	2.29342	0.1925316	0.27261899	2.3555843	20	—	—
161287 2003 HN_{20}	16.2	X	221.26754	226.82045	60.88463	8.26546	0.1255971	0.27497513	2.3421090	20	1 11.5	19.9
161288 2003 HQ_{22}	16.4	X	353.97340	302.44273	22.74081	7.11069	0.1944763	0.30313400	2.1947225	20	10 6.9	17.9
161289 2003 HK_{23}	17.4	X	302.59439	281.91442	25.47396	4.01595	0.1887770	0.29307119	2.2446775	20	4 28.9	19.8
161290 2003 HU_{28}	16.5	X	254.24642	211.82627	55.67589	5.03449	0.1367580	0.27626287	2.3348252	20	1 18.2	20.0
161291 2003 HV_{29}	16.1	X	171.71919	92.32927	218.96041	4.46283	0.3136834	0.26630778	2.3926553	20	1 5.0	20.3
161292 2003 HV_{44}	16.5	X	184.55659	130.75567	165.89130	9.00696	0.2218347	0.26720577	2.3872917	20	—	—
161293 2003 HR_{46}	16.8	X	322.89369	85.11552	144.31850	4.03962	0.1301146	0.28293714	2.2979615	20	2 18.5	19.4
161294 2003 JH_{14}	15.4	X	331.07581	133.81403	207.77873	17.67638	0.2159684	0.23873452	2.5735103	20	8 11.5	18.0
161295 2003 JF_{16}	16.3	X	193.34454	240.20167	179.13970	5.14518	0.0156911	0.29092990	2.2556782	20	6 4.5	19.0
161296 2003 KO_{3}	15.4	X	315.52005	103.40517	227.23684	12.81373	0.2361390	0.23475527	2.6025105	20	6 19.4	18.2
161297 2003 KG_{33}	15.5	X	0.21350	132.97585	147.08869	3.65100	0.1584675	0.18025674	3.1036664	20	7 13.1	18.9
161298 2003 LN_{4}	16.0	X	212.43961	117.58533	115.98744	6.85533	0.1788887	0.26400179	2.4065680	20	—	—
161299 2003 LR_{4}	16.7	X	194.60321	129.31725	151.06904	2.92517	0.1725640	0.26765310	2.3846311	20	—	—
161300 2003 LJ_{5}	15.4	X	160.22133	73.76334	172.77211	11.42216	0.2491663	0.25428889	2.4674657	20	12 18.4	19.8
161301 2003 MH_{1}	15.8	X	226.16514	155.14480	169.15363	22.94390	0.1597542	0.27705733	2.3303596	20	2 27.9	19.5
161302 2003 NK_{2}	16.4	X	164.18658	278.84418	15.26321	2.62404	0.1783065	0.26034472	2.4290523	20	—	—
161303 2003 NT_{6}	16.0	X	154.53858	243.47250	39.41504	5.50542	0.1678850	0.25770600	2.4456053	20	—	—
161304 2003 NQ_{9}	14.9	X	347.60884	32.36378	284.07658	10.11389	0.1002780	0.17379082	3.1801785	20	8 5.8	18.9
161305 2003 OQ_{1}	15.2	X	335.52601	189.67516	113.46528	17.49852	0.1753848	0.22937524	2.6430479	20	6 29.9	17.9
161306 2003 OB_{2}	16.1	X	191.45528	174.91540	120.93344	7.11401	0.1158467	0.26456184	2.4031705	20	—	—
161307 2003 OR_{2}	16.4	X	120.98360	353.81951	19.10286	2.64032	0.2294272	0.26003064	2.4310079	20	1 28.9	19.7
161308 2003 OU_{20}	16.1	X	152.35301	359.57134	357.05479	6.64161	0.1510302	0.26537126	2.3982813	20	2 2.1	19.6
161309 2003 OC_{22}	15.2	X	278.11534	11.33807	4.54488	13.42861	0.2475532	0.22243719	2.6977256	20	6 21.4	19.1
161310 2003 OE_{28}	15.8	X	46.13234	336.76281	323.05760	12.15689	0.1680229	0.23922518	2.5699901	20	10 30.5	19.5
161311 2003 OY_{28}	16.5	X	36.74104	278.89407	89.40753	3.64028	0.1827331	0.24532902	2.5271834	20	—	—
161312 2003 OY_{30}	16.0	X	16.23464	166.74555	163.77501	14.21972	0.3143499	0.23714199	2.5850190	20	11 30.5	19.3
161313 2003 PZ_{10}	16.5	X	90.76652	113.09319	154.83272	4.11831	0.1441164	0.24349249	2.5398749	20	11 13.5	20.3
161314 2003 QQ_{3}	16.0	X	108.78015	148.62732	110.10754	7.83868	0.1887291	0.24519027	2.5281367	20	11 22.7	20.2
161315 de Shalit	16.4	X	22.18643	62.09543	323.42280	4.83661	0.2342822	0.24302924	2.5431015	20	—	—
161316 2003 QH_{6}	15.5	X	34.69282	315.22482	335.30762	6.01784	0.0975949	0.23571677	2.5954285	20	9 24.7	18.7
161317 2003 QQ_{15}	16.4	X	55.35012	20.69707	309.44394	9.73346	0.1251096	0.24307566	2.5427778	20	12 20.2	20.0
161318 2003 QB_{18}	16.6	X	108.68144	237.95343	102.88378	2.86517	0.2723094	0.25332032	2.4737513	20	—	—
161319 2003 QJ_{28}	15.9	X	141.69749	129.35705	200.24236	2.18927	0.1972028	0.25735458	2.4478311	20	—	—
161320 2003 QE_{33}	15.2	X	355.99713	14.33732	303.21762	14.30854	0.1959059	0.23039061	2.6352766	20	9 1.4	17.8
161321 2003 QR_{33}	15.6	X	88.27807	36.84215	318.83641	6.93188	0.1519549	0.25328763	2.4739641	20	—	—
161322 2003 QZ_{33}	16.0	X	354.65323	255.20379	146.24512	15.50212	0.2246711	0.24269434	2.5454405	20	—	—
161323 2003 QF_{39}	16.2	X	16.09123	301.91983	351.95892	5.55097	0.2021939	0.23278919	2.6171433	20	9 16.3	18.9
161324 2003 QE_{41}	16.3	X	53.44728	302.13274	5.62852	1.88640	0.2037584	0.23982815	2.5656807	20	11 28.4	19.9
161325 2003 QZ_{49}	16.3	X	53.60002	203.23747	118.67792	3.06086	0.1819115	0.24164924	2.5527744	20	12 14.4	20.0
161326 2003 QC_{60}	16.0	X	19.18201	158.34008	147.99581	8.66285	0.0693930	0.23188327	2.6239554	20	9 22.6	19.2
161327 2003 QS_{63}	15.4	X	317.19588	181.53595	162.04819	14.32385	0.2641678	0.22589977	2.6700877	20	7 8.1	18.2
161328 2003 QV_{66}	15.4	X	309.46456	195.69378	194.85755	12.96827	0.2843366	0.22820337	2.6520885	20	8 28.4	18.0
161329 2003 QO_{72}	16.1	X	22.58128	286.36379	351.85773	12.47290	0.2577469	0.23300570	2.6155218	20	9 15.1	18.7
161330 2003 QY_{79}	16.0	X	39.64140	247.13394	123.31466	16.54434	0.2372596	0.24519262	2.5281206	20	—	—
161331 2003 QA_{90}	15.6	X	300.58395	149.18510	234.47628	8.86850	0.3632993	0.22407531	2.6845617	20	7 14.1	18.6
161332 2003 QX_{93}	15.5	X	269.85558	311.16666	143.67704	15.50311	0.0955956	0.24005091	2.5640932	20	10 29.2	19.0
161333 2003 QR_{99}	16.5	X	337.30257	226.30237	142.84108	2.47330	0.2153783	0.23440445	2.6051065	20	10 19.9	18.4
161334 2003 QY_{103}	13.6	X	347.40946	340.36281	76.76265	6.64474	0.2343586	0.12203351	4.0254705	20	12 6.5	18.0
161335 2003 QQ_{114}	16.3	X	25.28807	177.04639	212.02294	2.91725	0.1743622	0.24551983	2.5258739	20	—	—
161336 2003 RQ_{1}	14.6	X	298.45724	296.58258	118.29062	18.62123	0.1907199	0.17555294	3.1588620	20	9 25.3	18.7
161337 2003 RB_{22}	15.7	X	114.65403	330.94987	270.52616	6.50167	0.1261564	0.23924199	2.5698698	20	10 30.4	19.7
161338 2003 SC_{4}	15.1	X	323.90620	220.66098	6.99921	7.30170	0.1941645	0.21010174	2.8023107	20	2 20.9	18.7
161339 2003 SL_{22}	15.6	X	185.27026	87.73335	352.93425	4.85939	0.0918224	0.21646833	2.7470916	20	6 19.7	19.9
161340 2003 SK_{37}	15.6	X	50.68064	331.89467	309.23690	11.14767	0.1592728	0.23501158	2.6006179	20	10 9.3	19.3
161341 2003 SM_{41}	14.9	X	315.59947	90.44894	329.14860	13.28832	0.1774618	0.23386149	2.6091371	20	11 7.6	17.7
161342 2003 SQ_{44}	15.5	X	251.53493	98.38749	283.08841	4.27099	0.0782035	0.22081926	2.7108870	20	6 20.2	19.1
161343 2003 SL_{62}	15.4	X	31.88878	274.25753	316.42245	10.98051	0.1999206	0.22387726	2.6861447	20	7 14.4	18.2
161344 2003 SU_{64}	16.3	X	0.58531	265.08159	86.47138	5.55628	0.1743218	0.23488725	2.6015355	20	11 8.3	18.9
161345 2003 SX_{64}	16.5	X	327.49910	218.51548	170.70813	8.10415	0.2041235	0.23338948	2.6126538	20	10 28.0	18.7
161346 2003 SG_{89}	16.0	X	342.73492	36.53390	313.24510	9.11765	0.1404080	0.23190947	2.6237577	20	9 21.3	18.8
161347 2003 SP_{94}	15.7	X	337.31257	155.05905	196.27342	12.56717	0.2237486	0.22954090	2.6417760	20	9 15.9	18.0
161348 2003 SR_{103}	15.9	X	14.78178	146.81171	189.78839	7.15408	0.2031913	0.23497685	2.6008741	20	11 15.9	18.9
161349 Mecsek	16.0	X	275.35339	275.56322	116.74572	2.27466	0.0295460	0.22775691	2.6555532	20	8 14.7	19.4
161350 2003 SM_{140}	16.2	X	42.22865	197.95603	137.01306	6.77155	0.2795383	0.23891658	2.5722027	20	12 29.4	20.0
161351 2003 SR_{140}	15.6	X	279.66168	30.28053	301.22821	13.26110	0.0954323	0.21704591	2.7422159	20	5 14.9	19.6
161352 2003 SY_{140}	14.7	X	115.23017	19.99773	238.68368	16.54104	0.1686866	0.17922325	3.1155865	20	11 15.4	19.8
161353 2003 SV_{142}	15.8	X	288.97779	240.30241	156.66700	6.53950	0.1863378	0.22589930	2.6700914	20	8 16.1	18.9
161354 2003 SH_{149}	15.3	X	270.75819	148.56198	177.80690	5.12190	0.0574237	0.21452247	2.7636786	20	5 6.8	19.1
161355 2003 SG_{152}	16.1	X	55.89901	246.59326	77.95216	5.15483	0.1500015	0.24332186	2.5410622	20	12 16.4	19.8
161356 2003 SS_{157}	16.3	X	28.97210	355.84092	325.98609	0.91534	0.2389492	0.23571993	2.5954053	20	11 21.4	19.5
161357 2003 SB_{162}	15.7	X	246.48575	130.26840	216.75594	2.95067	0.1063312	0.21372241	2.7705714	20	4 26.4	19.7
161358 2003 SC_{163}	16.0	X	313.55023	174.20579	146.63429	2.39773	0.0687994	0.22039160	2.7143928	20	6 26.0	19.4
161359 2003 SU_{164}	15.8	X	318.19703	290.26288	56.61896	4.15105	0.0963475	0.22482183	2.6786156	20	8 9.1	18.8
161360 2003 SR_{165}	15.8	X	349.97638	199.11664	140.81295	7.27839	0.2041773	0.23009386	2.6375419	20	10 3.9	18.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
161361 2003 SS_{165}	15.7	X	240.49985	260.88576	169.36428	12.38731	0.1372510	0.22214639	2.7000795	20	7 31.7	19.7
161362 2003 SC_{182}	15.7	X	357.40715	212.65568	178.85268	14.91811	0.1898986	0.23560393	2.5962571	20	12 28.5	18.9
161363 2003 SF_{192}	15.4	X	46.07073	325.09367	350.99630	14.94246	0.0970944	0.23522264	2.5990620	20	11 8.8	19.1
161364 2003 SJ_{198}	15.3	X	240.07883	32.11330	325.95454	10.95267	0.1257980	0.21458706	2.7631239	20	4 26.4	19.7
161365 2003 SD_{199}	15.4	X	293.07854	136.30277	225.81528	7.70813	0.2156695	0.22342343	2.6897809	20	6 28.5	18.8
161366 2003 SX_{207}	16.1	X	266.74590	331.92480	32.19452	2.34271	0.0938474	0.21869912	2.7283789	20	6 13.9	19.8
161367 2003 SP_{208}	16.1	X	98.35215	348.94646	271.10621	4.99998	0.1254742	0.24045417	2.5612257	20	11 6.9	20.1
161368 2003 SD_{226}	15.9	X	267.06576	334.91220	34.46022	5.23584	0.1268766	0.21923139	2.7239610	20	6 16.3	19.7
161369 2003 SK_{228}	16.0	X	309.16483	157.25367	178.05283	5.17158	0.2359003	0.22328924	2.6908584	20	6 14.8	19.0
161370 2003 SJ_{233}	16.1	X	309.46002	239.38633	92.06937	3.43101	0.1266374	0.22309588	2.6924130	20	6 27.0	19.2
161371 Bertrandou	16.1	X	206.73679	281.82653	199.25044	3.56092	0.0619157	0.22999516	2.6382964	20	9 7.2	19.9
161372 2003 SM_{247}	15.7	X	291.67600	233.05262	60.50172	1.80100	0.0982587	0.21415685	2.7668231	20	4 14.2	19.3
161373 2003 SN_{259}	15.7	X	184.31397	238.02600	197.70915	6.72266	0.0516315	0.21478180	2.7614535	20	6 13.2	19.7
161374 2003 SA_{272}	15.8	X	188.68434	217.41803	295.20500	8.89520	0.0179914	0.23543157	2.5975241	20	9 27.2	19.6
161375 2003 SF_{291}	15.3	X	230.44323	178.79458	213.81414	4.43595	0.1760310	0.21580009	2.7527597	20	5 31.1	19.5
161376 2003 SH_{291}	15.8	X	271.32353	131.49088	230.70826	2.29774	0.1905260	0.21910813	2.7249825	20	6 3.2	19.5
161377 2003 SX_{292}	15.6	X	339.26461	52.07328	324.11945	12.53664	0.1953764	0.23239816	2.6200783	20	10 24.6	18.3
161378 2003 ST_{293}	15.9	X	325.83956	301.33394	335.99871	3.83529	0.0753628	0.21737924	2.7394119	20	5 13.1	19.3
161379 2003 SE_{298}	15.7	X	324.17190	228.19701	106.58016	6.96799	0.0434965	0.22632426	2.6667480	20	8 4.9	19.0
161380 2003 SD_{304}	15.2	X	354.14178	17.16077	312.56616	13.53336	0.1100522	0.22842729	2.6503550	20	9 9.5	18.3
161381 2003 TH_{7}	15.4	X	113.83031	85.42993	84.85901	14.44437	0.0470647	0.22283597	2.6945062	20	7 24.2	19.3
161382 2003 TJ_{11}	15.4	X	235.72467	144.15859	235.96807	4.50897	0.0773757	0.21652866	2.7465813	20	5 30.1	19.4
161383 2003 TH_{15}	16.2	X	0.42683	225.66025	116.84730	3.87399	0.1348397	0.23243973	2.6197659	20	10 20.7	19.0
161384 2003 UK_{25}	15.4	X	269.59711	40.75078	329.63652	5.52004	0.0347298	0.21887587	2.7269099	20	7 6.5	19.1
161385 2003 UM_{27}	16.1	X	356.48027	195.85864	178.80979	13.85911	0.2840500	0.23375570	2.6099243	20	12 19.2	19.0
161386 2003 UB_{28}	15.8	X	218.32062	235.55407	150.80840	4.25580	0.1102706	0.21220580	2.7837563	20	5 16.9	20.1
161387 2003 UX_{40}	16.1	X	29.27529	121.53275	235.10702	2.60905	0.2454494	0.23790271	2.5795055	20	—	—
161388 2003 UH_{62}	15.2	X	283.54453	286.42495	68.04454	11.85192	0.1524758	0.22135067	2.7065465	20	6 14.1	18.7
161389 2003 UL_{78}	15.1	X	350.59307	359.57743	281.36542	13.22225	0.1539670	0.22238311	2.6981630	20	6 28.4	17.8
161390 2003 UB_{81}	15.7	X	341.76960	179.04438	180.46936	13.11407	0.1863010	0.22970508	2.6405171	20	10 12.6	18.0
161391 2003 UF_{97}	16.3	X	234.13572	303.41026	70.84885	1.55243	0.0886742	0.21441096	2.7646366	20	5 19.3	20.4
161392 2003 UU_{116}	16.2	X	27.44901	266.86755	82.85624	4.50179	0.3033316	0.23819232	2.5774142	20	—	—
161393 2003 UJ_{122}	16.1	X	288.44726	116.40741	229.35638	4.33457	0.1323350	0.21977925	2.7194324	20	6 13.1	19.5
161394 2003 UL_{130}	15.2	X	259.60385	84.52258	258.62753	10.28979	0.1822081	0.21325271	2.7746381	20	4 24.9	19.5
161395 2003 UM_{131}	15.5	X	238.64961	18.28626	292.09792	8.21596	0.1173161	0.20458583	2.8524564	20	2 29.0	20.1
161396 2003 UR_{132}	14.8	X	123.49215	171.12638	256.30716	11.64527	0.0845309	0.20127653	2.8836373	20	3 21.5	19.3
161397 2003 UU_{140}	15.5	X	91.22678	12.94666	133.16017	9.15975	0.0574236	0.21257189	2.7805593	20	5 25.7	19.4
161398 2003 UY_{162}	15.8	X	257.67854	266.97316	78.81891	3.81863	0.1598954	0.21477276	2.7615310	20	5 2.2	19.8
161399 2003 UB_{163}	15.2	X	192.95379	21.91213	50.63420	11.28203	0.2719936	0.21317487	2.7753135	20	6 11.6	20.2
161400 2003 UV_{164}	15.9	X	203.88179	225.62855	163.58599	4.70373	0.0833654	0.21081190	2.7960137	20	5 6.7	20.1
161401 2003 UT_{166}	15.6	X	293.15828	265.95448	43.70912	5.24170	0.0570250	0.21324468	2.7747078	20	5 13.0	19.1
161402 2003 UP_{168}	15.5	X	187.14185	57.08960	353.62455	3.11529	0.0935138	0.20991356	2.8039853	20	5 13.4	19.7
161403 2003 UH_{181}	15.6	X	209.30393	249.45297	141.84540	4.30809	0.1048831	0.21195764	2.7859287	20	5 14.1	19.8
161404 2003 UD_{190}	15.6	X	297.04507	292.51846	21.91071	5.51737	0.1841002	0.21654627	2.7464324	20	5 4.2	19.1
161405 2003 UF_{202}	15.4	X	286.10060	177.97083	170.88246	9.62406	0.2849591	0.22000332	2.7175856	20	5 22.9	19.3
161406 2003 UJ_{202}	15.9	X	358.49311	248.93590	124.56981	5.69082	0.2214328	0.23370981	2.6102659	20	12 11.1	18.6
161407 2003 UB_{213}	16.7	X	337.54112	265.52564	38.74404	6.62748	0.1094183	0.27718145	2.3296639	20	7 15.1	18.9
161408 2003 UC_{213}	15.5	X	220.95956	351.74835	40.54043	4.91525	0.0768068	0.21151189	2.7898414	20	5 27.9	19.6
161409 2003 UG_{234}	15.5	X	256.87293	347.46199	17.55637	3.56264	0.1712534	0.21526079	2.7573555	20	5 22.8	19.5
161410 2003 UP_{237}	15.4	X	283.90859	60.96401	266.31510	4.03528	0.0755707	0.21219742	2.7838296	20	5 20.9	19.2
161411 2003 UD_{238}	15.3	X	183.49026	318.86294	93.71196	7.93082	0.1044127	0.20941368	2.8084456	20	5 14.9	19.7
161412 2003 UW_{245}	15.9	X	251.09114	239.64550	149.00102	1.99090	0.0960938	0.21680079	2.7442824	20	6 26.5	19.8
161413 2003 UG_{246}	15.8	X	32.61917	266.87577	72.02435	4.76861	0.3041165	0.23635432	2.5907590	20	12 26.9	19.5
161414 2003 UD_{253}	15.9	X	263.07073	305.83816	43.92409	5.08494	0.2353170	0.21583447	2.7524674	20	5 3.2	20.0
161415 2003 UM_{253}	15.5	X	310.14216	304.57915	101.83013	12.64509	0.1878915	0.23484239	2.6018667	20	10 20.6	18.2
161416 2003 UU_{254}	15.3	X	278.47782	40.99135	323.25989	16.84506	0.3436028	0.21627226	2.7487516	20	5 19.6	19.9
161417 2003 UJ_{264}	15.7	X	268.03886	191.55378	163.85831	6.10746	0.0876497	0.21535360	2.7565632	20	6 5.9	19.6
161418 2003 UL_{267}	15.7	X	288.91258	86.78415	226.89874	3.90569	0.0595600	0.21171958	2.7880167	20	5 12.6	19.2
161419 2003 UL_{276}	15.8	X	18.03286	41.63135	0.57680	2.15906	0.3510682	0.23835490	2.5762420	20	—	—
161420 2003 UM_{276}	14.0	X	16.02156	157.24236	293.24332	26.65976	0.1317420	0.17876078	3.1209577	20	—	—
161421 2003 WC_{6}	16.1	X	354.51875	115.41146	276.82749	1.25690	0.2277848	0.23444086	2.6048367	20	12 30.7	18.6
161422 2003 WK_{17}	15.3	X	52.52752	359.58131	354.18650	12.39805	0.2108500	0.24031062	2.5622455	20	—	—
161423 2003 WE_{26}	15.8	X	265.33932	190.55145	156.51778	9.52982	0.2378499	0.21616431	2.7496667	20	5 4.8	20.1
161424 2003 WC_{39}	16.9	X	57.14826	246.81075	308.80870	5.61551	0.0702379	0.27098501	2.3650439	20	6 15.1	19.6
161425 2003 WC_{41}	16.2	X	265.53016	327.35364	2.17236	2.19983	0.2817897	0.21285590	2.7780854	20	4 5.4	20.6
161426 2003 WN_{42}	14.9	X	300.04662	281.92454	98.79096	27.51241	0.2488849	0.22396221	2.6854653	20	8 3.3	18.1
161427 2003 WC_{55}	15.8	X	232.45270	55.86768	321.95107	3.55410	0.0819265	0.21112381	2.7932592	20	5 21.7	19.8
161428 2003 WD_{57}	15.9	X	237.01861	150.15057	213.86077	4.16679	0.0818813	0.21223493	2.7835016	20	5 10.4	20.0
161429 2003 WY_{72}	15.0	X	275.84836	1.92414	344.25037	11.51504	0.0990676	0.21378224	2.7700544	20	5 29.6	19.1
161430 2003 WP_{81}	15.4	X	47.11410	256.89069	87.90021	14.57676	0.1960290	0.24276694	2.5449330	20	—	—
161431 2003 WG_{83}	15.1	X	351.08839	83.84613	277.97635	13.28276	0.1528465	0.23055863	2.6339961	20	10 25.3	18.2
161432 2003 WN_{83}	15.5	X	334.52849	81.71564	298.90561	10.39975	0.2825475	0.23069246	2.6329773	20	10 26.5	17.6
161433 2003 WY_{100}	16.3	X	31.83931	203.08427	142.52423	6.44448	0.2821217	0.23858627	2.5745762	20	12 31.9	19.9
161434 2003 WT_{133}	15.4	X	124.65017	85.36443	218.86426	4.09500	0.1688938	0.24222831	2.5487043	20	—	—
161435 2003 WB_{150}	15.9	X	283.89517	269.84676	102.34836	6.10590	0.1785198	0.21997032	2.7178573	20	7 5.5	19.3
161436 2003 WL_{159}	14.9	X	346.15155	349.71163	134.18305	16.29211	0.0355457	0.18507201	3.0495954	20	—	—
161437 2003 WJ_{170}	15.4	X	12.71548	132.13739	205.05066	17.33494	0.2528912	0.23072562	2.6327250	20	11 20.3	18.5
161438 2003 WY_{170}	15.7	X	344.43755	178.42132	152.76741	12.84077	0.2029289	0.22553016	2.6730042	20	9 3.0	17.9
161439 2003 WM_{171}	16.2	X	257.38473	220.88255	108.37225	9.05511	0.2326610	0.21142310	2.7906225	20	4 7.4	20.8
161440 2003 WA_{172}	15.6	X	62.19971	148.05627	199.96965	18.73857	0.2922423	0.23999027	2.5645251	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
161441 2003 XV_9	15.3	X	294.68259	8.68871	14.91721	14.61421	0.2008676	0.22127911	2.7071299	20	8 11.5	18.7
161442 2003 YU_{14}	14.5	X	60.17816	18.56384	302.69229	14.42796	0.0511664	0.16843673	3.2472186	20	11 14.9	19.4
161443 2003 YK_{26}	14.8	X	51.54485	75.89781	316.10368	10.57650	0.0788619	0.17695087	3.1422031	20	—	—
161444 2003 YX_{32}	15.0	X	189.61545	174.54026	94.44662	16.34444	0.0473440	0.18531378	3.0469424	20	—	—
161445 2003 YN_{45}	15.1	X	59.78652	275.95397	15.00223	13.52613	0.2478878	0.23175686	2.6249094	20	11 14.6	19.2
161446 2003 YM_{46}	15.1	X	186.67410	352.14230	336.82660	9.38572	0.0915827	0.19147026	2.9812736	20	2 7.2	19.7
161447 2003 YF_{47}	14.9	X	119.27452	221.65958	99.93369	7.66951	0.0685764	0.18152502	3.0891931	20	—	—
161448 2003 YK_{63}	15.2	X	299.02525	260.33155	117.71385	10.20808	0.1980990	0.21932175	2.7232128	20	8 4.8	18.2
161449 2003 YX_{91}	15.5	X	28.91636	351.67824	102.26721	10.89949	0.0301355	0.18929026	3.0041195	20	—	—
161450 2003 YK_{103}	14.0	X	225.07438	92.59843	95.31285	27.56769	0.0517063	0.16965771	3.2316202	20	12 14.6	18.8
161451 2003 YM_{119}	16.8	X	2.31593	303.34667	51.55496	4.94759	0.1504907	0.28566539	2.2833069	20	11 25.4	19.1
161452 2003 YJ_{139}	15.4	X	199.77327	49.52521	356.80512	9.07263	0.1892597	0.20902212	2.8119519	20	5 16.4	20.2
161453 2003 YE_{158}	15.2	X	348.70215	21.43990	329.73918	12.21513	0.1698446	0.22828669	2.6514431	20	10 4.8	18.1
161454 2003 YD_{180}	16.8	X	100.24416	234.78969	96.33885	3.97986	0.1829221	0.29680115	2.2258317	20	—	—
161455 2004 AR	16.3	X	346.63407	250.92653	139.34795	5.54509	0.3130449	0.23307862	2.6149763	20	12 26.2	18.5
161456 2004 AH_{26}	15.4	X	105.21747	244.96260	136.19875	10.88472	0.1171809	0.18958711	3.0009829	20	1 14.4	19.5
161457 2004 BV	15.1	X	75.62733	69.96123	283.21201	7.67609	0.1346880	0.17371243	3.1811351	20	—	—
161458 2004 BP_2	14.9	X	54.82578	258.27408	126.06618	10.25514	0.0825495	0.17479479	3.1679895	20	—	—
161459 2004 BQ_{22}	14.6	X	13.07976	280.05435	136.93987	11.07815	0.0976714	0.17414859	3.1758214	20	—	—
161460 2004 BU_{44}	16.7	X	105.28738	74.84345	282.65169	2.64801	0.1988281	0.30189266	2.2007347	20	—	—
161461 2004 BS_{56}	16.0	X	292.94445	111.76922	321.98904	11.08807	0.1719456	0.22145656	2.7056837	20	10 10.3	19.2
161462 2004 BE_{116}	14.9	X	62.92625	97.72281	324.08529	21.21081	0.1206033	0.18268860	3.0760619	20	1 14.0	19.0
161463 2004 CY_1	14.3	X	8.34080	276.64656	163.47208	25.94466	0.2196071	0.17615018	3.1517178	20	—	—
161464 2004 CE_{35}	16.3	X	210.33120	9.77985	118.40915	7.36648	0.1116618	0.27583314	2.3372496	20	9 25.9	19.6
161465 2004 CY_{70}	15.8	X	100.56844	240.88755	39.54909	2.52910	0.0544205	0.22183129	2.7026357	20	11 26.5	19.8
161466 2004 CA_{83}	15.0	X	80.50357	60.06316	333.53375	16.61205	0.1718751	0.17903802	3.1177350	20	1 11.1	19.2
161467 2004 DY_{17}	16.8	X	91.45017	238.10416	12.83338	4.01773	0.2579493	0.26814191	2.3817321	20	11 3.2	20.8
161468 2004 DE_{31}	15.9	X	146.81121	226.52620	69.19556	1.19686	0.0712966	0.22921593	2.6442724	20	—	—
161469 2004 EC_{79}	16.7	X	97.04608	233.95456	53.78744	3.61735	0.1690623	0.27542191	2.3395755	20	12 19.7	20.2
161470 2004 EV_{80}	17.2	X	110.35120	52.94951	25.03962	7.25239	0.0788006	0.30898974	2.1669057	20	3 16.2	19.6
161471 2004 FE_{12}	15.1	X	92.72679	42.71494	316.65845	13.27897	0.1001972	0.23002678	2.6380546	20	—	—
161472 2004 FG_{20}	16.8	X	152.86482	233.93571	299.56165	1.71816	0.1451962	0.26866257	2.3786540	20	9 17.3	20.6
161473 2004 FC_{40}	16.7	X	221.66661	308.53328	316.31810	4.09947	0.1080197	0.29332217	2.2433970	20	—	—
161474 2004 FE_{40}	16.8	X	234.23517	312.06544	290.40306	4.91975	0.0538380	0.29257562	2.2472115	20	—	—
161475 2004 FY_{92}	15.8	X	287.74503	162.45093	191.06654	2.15667	0.2103597	0.25870288	2.4393187	20	6 10.8	18.5
161476 2004 FS_{96}	16.0	X	51.21540	193.63052	104.59540	9.65496	0.1398240	0.26973283	2.3723577	20	11 14.8	19.2
161477 2004 FJ_{160}	15.0	X	259.22748	112.13518	294.74532	15.75115	0.0798570	0.20397174	2.8581788	20	7 30.8	18.9
161478 2004 GX_{25}	14.6	X	318.33646	267.36948	186.08001	14.37249	0.0648621	0.15835756	3.3835830	20	12 13.7	19.3
161479 2004 GU_{27}	16.5	X	270.15896	284.27622	66.82772	22.53070	0.0846882	0.37293445	1.9115297	20	6 1.9	18.0
161480 2004 GX_{38}	15.5	X	88.20946	37.50972	35.27558	4.95150	0.1456793	0.23831296	2.5765443	20	2 25.7	18.6
161481 2004 GQ_{60}	17.0	X	299.29199	356.33173	136.64226	2.43509	0.1004336	0.28466643	2.2886456	20	—	—
161482 2004 GL_{61}	16.4	X	110.99632	261.82825	47.43765	4.72844	0.0747673	0.21940825	2.7224970	20	—	—
161483 2004 GA_{87}	16.5	X	99.39751	286.42204	316.84292	7.01837	0.0752240	0.26626773	2.3928953	20	10 15.2	20.0
161484 2004 HU_{42}	12.6	X	4.11341	309.57276	33.30272	17.38877	0.0241096	0.08285012	5.2112347	20	9 26.0	19.5
161485 2004 HZ_{47}	16.7	X	121.76673	312.18499	324.34536	6.07633	0.1351371	0.27368890	2.3494413	20	12 28.2	20.3
161486 2004 HE_{52}	15.9	X	307.10543	252.21448	30.54189	2.45343	0.1216227	0.18438137	3.0572059	20	4 19.0	20.0
161487 2004 JO_{15}	17.0	X	175.98086	184.74280	76.81285	2.97579	0.1227321	0.27874848	2.3209246	20	—	—
161488 2004 JC_{18}	16.7	X	190.62732	217.69472	21.41733	3.23480	0.0535844	0.27957060	2.3163724	20	—	—
161489 2004 KN_6	12.8	X	216.16807	40.03680	115.48542	8.15487	0.0109737	0.08424660	5.1534862	20	10 19.0	19.7
161490 2004 KY_7	17.3	X	172.12889	300.96618	325.10761	3.41477	0.1270971	0.27954435	2.3165174	20	—	—
161491 2004 KJ_{10}	15.0	X	1.50000	200.80887	27.70922	9.54083	0.0458339	0.18427876	3.0583407	20	5 3.9	19.0
161492 2004 LG_2	15.9	X	294.25469	180.96655	61.83634	8.18428	0.0566150	0.23384456	2.6092631	20	2 19.3	19.5
161493 2004 LL_6	15.0	X	333.21379	258.70431	67.02332	11.45393	0.0609321	0.19290347	2.9664886	20	8 4.5	19.0
161494 2004 LN_{14}	15.4	X	240.88389	92.61141	91.81042	14.57231	0.1294713	0.21628551	2.7486394	20	12 27.6	18.8
161495 2004 MA_1	16.1	X	194.78209	103.30908	111.48660	23.09330	0.1992271	0.27257108	2.3558603	20	12 19.1	19.7
161496 2004 NY	15.6	X	205.91994	309.29611	286.06757	13.09975	0.1124640	0.21298390	2.7769722	20	—	—
161497 2004 NY_{32}	16.1	X	244.64906	131.70422	270.59784	3.51858	0.2109825	0.24029940	2.5623252	20	6 23.4	19.9
161498 2004 PT_{69}	15.3	X	288.75828	315.85215	122.18979	7.10759	0.0398758	0.19102146	2.9859414	20	10 28.1	19.4
161499 2004 PE_{82}	15.9	X	340.38044	215.97350	337.54378	5.57222	0.0819045	0.22406966	2.6846067	20	2 12.7	19.0
161500 2004 RW_{13}	14.9	X	158.75076	141.16205	335.99422	16.38872	0.0766672	0.17534632	3.1613430	20	7 9.8	19.9
161501 2004 RV_{19}	16.5	X	339.83538	223.33532	88.53131	7.40606	0.1878456	0.24308628	2.5427037	20	7 25.4	18.6
161502 2004 RP_{26}	15.2	X	211.73567	62.13918	353.95431	8.56750	0.0788486	0.17331298	3.1860212	20	6 16.7	20.2
161503 2004 RD_{45}	15.7	X	36.40766	323.90514	330.53215	2.64546	0.0952972	0.18677074	3.0310759	20	9 24.8	19.7
161504 2004 RD_{54}	15.2	X	6.33993	217.44185	72.87366	4.52678	0.1239936	0.17999472	3.1066777	20	8 7.9	18.9
161505 2004 RU_{68}	16.4	X	159.20376	110.59659	175.24110	8.63775	0.2384688	0.27012089	2.3700851	20	—	—
161506 2004 RR_{79}	15.9	X	130.83048	54.23938	18.57237	23.13935	0.2605322	0.28008272	2.3135479	20	4 20.6	19.7
161507 2004 RU_{82}	17.2	X	97.66544	263.22474	26.00700	1.15180	0.1038076	0.25856096	2.4402112	20	12 15.5	20.8
161508 2004 RW_{88}	15.3	X	227.17194	308.88718	285.26159	12.36280	0.1722064	0.21435411	2.7651255	20	—	—
161509 2004 RB_{99}	17.8	X	18.32602	337.32727	323.08858	2.62625	0.1605415	0.31045360	2.1600887	20	10 8.9	19.7
161510 2004 RA_{150}	17.0	X	345.91244	161.59657	113.28770	4.45602	0.1477801	0.29975325	2.2111937	20	6 11.4	18.4
161511 2004 RP_{179}	15.0	X	61.47249	325.93952	327.53047	13.08044	0.1019321	0.18927551	3.0042756	20	10 21.9	19.5
161512 2004 RD_{190}	15.1	X	16.29226	352.99633	335.28679	10.98045	0.0946633	0.18500917	3.0502859	20	10 5.3	19.2
161513 2004 RK_{195}	16.7	X	36.33291	335.48448	313.69901	4.37460	0.2304849	0.31060046	2.1594077	20	10 30.9	19.3
161514 2004 RE_{288}	16.2	X	238.94424	214.76558	43.80998	6.91453	0.0690089	0.27192593	2.3595851	20	—	—
161515 2004 RO_{291}	15.3	X	133.75411	343.83108	191.40164	9.20362	0.0371462	0.17927801	3.1149521	20	8 15.7	20.0
161516 2004 RR_{326}	17.2	X	297.34290	58.24930	315.85570	5.18166	0.1830345	0.30192296	2.2005874	20	8 8.1	19.0
161517 2004 RZ_{328}	17.1	X	245.36634	101.29251	183.92740	4.99824	0.1709400	0.28404706	2.2919714	20	1 26.6	20.7
161518 2004 RK_{334}	15.0	X	328.71639	194.87907	137.42833	13.47540	0.0910001	0.17965070	3.1106425	20	7 30.5	18.8
161519 2004 SQ_{11}	16.3	X	136.57651	54.39200	26.53129	25.13385	0.1923912	0.28627302	2.2800748	20	4 29.8	19.9
161520 2004 SO_{32}	14.9	X	20.30006	148.70301	178.83998	14.71962	0.1102174	0.18472682	3.0533933	20	10 18.8	18.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
161521 2004 SG_{51}	15.8	X	138.91472	351.61340	10.96788	2.59828	0.0636738	0.21062815	2.7976396	20	1 22.2	19.7
161522 2004 SO_{57}	15.2	X	187.18987	161.54097	215.71058	13.32308	0.1979384	0.22101778	2.7092635	20	4 1.0	19.8
161523 2004 SQ_{60}	15.2	X	350.48517	164.16104	170.20254	13.11276	0.1122072	0.18044891	3.1014625	20	9 6.9	19.0
161524 2004 TU_{16}	15.5	X	260.28706	19.53682	239.28040	24.27097	0.1687715	0.27843899	2.3226442	20	1 4.3	19.5
161525 2004 TH_{44}	17.2	X	345.96591	322.56409	337.04128	2.22718	0.1431330	0.29977417	2.2110908	20	7 26.8	18.7
161526 2004 TF_{106}	15.9	X	325.19516	115.91531	177.28979	12.92625	0.1836638	0.23576469	2.5950768	20	5 24.5	18.8
161527 2004 TG_{124}	16.2	X	115.48766	39.91873	39.53881	2.98243	0.1734002	0.21879565	2.7275764	20	4 12.3	20.0
161528 2004 TE_{133}	16.3	X	282.27484	174.48275	195.18882	6.97409	0.1538811	0.29693036	2.2251860	20	7 6.7	18.8
161529 2004 TR_{179}	16.7	X	141.41120	123.29993	179.96628	8.12667	0.1275935	0.26758643	2.3850271	20	—	—
161530 2004 TQ_{293}	16.7	X	220.19675	345.69925	278.85213	1.51880	0.1792628	0.27044689	2.3681801	20	—	—
161531 2004 TA_{296}	16.9	X	274.59621	58.07581	237.45598	3.94422	0.2051800	0.28560536	2.2836269	20	3 4.1	20.2
161532 2004 TN_{342}	16.1	X	316.64375	18.07593	218.86145	4.53135	0.1353798	0.27968934	2.3157168	20	2 17.1	18.9
161533 2004 TF_{345}	16.4	X	321.13305	117.31737	219.60514	6.58402	0.2280701	0.30005225	2.2097245	20	7 20.3	17.7
161534 2004 TZ_{359}	16.3	X	284.16723	26.88394	276.09577	4.97977	0.1645860	0.28897882	2.2658198	20	3 29.1	19.4
161535 2004 VR_{9}	16.5	X	17.80198	199.91115	116.13720	6.09797	0.2078721	0.30731598	2.1747665	20	11 12.4	18.8
161536 2004 VA_{16}	16.4	X	90.31501	321.69553	104.09437	6.52902	0.1720349	0.27165597	2.3611480	20	2 18.2	19.0
161537 2004 VA_{24}	17.1	X	210.75755	184.96477	195.30496	4.42037	0.1665142	0.28578430	2.2826735	20	4 25.9	20.5
161538 2004 VP_{26}	16.7	X	227.85075	9.43370	341.21909	5.30772	0.1745806	0.28618321	2.2805518	20	4 1.0	20.1
161539 2004 VQ_{57}	15.7	X	213.53004	322.17726	37.71853	8.11327	0.1642657	0.28338287	2.2955512	20	4 3.8	19.2
161540 2004 VP_{77}	15.0	X	76.39619	73.17562	209.90414	9.28810	0.0325279	0.18108408	3.0942058	20	10 22.4	19.3
161541 2004 VJ_{81}	16.6	X	162.98026	167.71869	96.99770	3.67803	0.1558414	0.25760666	2.4462340	20	—	—
161542 2004 WF_{3}	16.3	X	332.95744	186.78080	138.59924	3.19410	0.2234861	0.23749632	2.5824473	20	7 25.9	18.3
161543 2004 WH_{10}	16.4	X	331.33913	331.84297	334.07546	5.50481	0.1971641	0.29766259	2.2215353	20	6 26.6	17.8
161544 2004 XQ_{13}	16.0	X	90.54452	129.43126	250.99414	0.42487	0.1935360	0.26090879	2.4255501	20	—	—
161545 Ferrando	15.9	X	2.23500	16.56245	223.69033	22.94565	0.1822841	0.28410055	2.2916837	20	5 19.9	17.5
161546 Schneeweis	15.9	X	102.63840	148.51256	75.80000	5.22730	0.0393992	0.23457394	2.6038515	20	9 22.2	19.5
161547 2004 XS_{29}	15.4	X	152.01358	238.37571	257.59679	12.87062	0.1225488	0.22715437	2.6602471	20	7 23.3	19.7
161548 2004 XL_{49}	16.5	X	217.20191	230.93568	145.37112	7.39457	0.1200130	0.28741197	2.2740472	20	5 1.6	19.8
161549 2004 XN_{49}	16.3	X	207.35750	211.83938	167.36904	5.68905	0.1708220	0.28370659	2.2938047	20	4 22.3	19.8
161550 2004 XS_{54}	16.8	X	225.92708	349.29475	22.70417	3.66333	0.1852639	0.28535810	2.2849458	20	4 27.6	20.3
161551 2004 XO_{72}	16.5	X	250.13357	316.94021	35.43484	4.97668	0.2769992	0.28617594	2.2805905	20	4 18.3	20.2
161552 2004 XT_{80}	16.3	X	194.97632	310.80542	66.78513	4.36590	0.2415673	0.28156738	2.3054081	20	4 8.9	20.3
161553 2004 XV_{102}	16.6	X	235.80029	351.62950	14.44615	6.95240	0.1427719	0.28758259	2.2731477	20	5 1.7	19.8
161554 2004 XO_{121}	15.7	X	313.42965	73.93569	280.83467	11.85250	0.0632632	0.22884205	2.6471517	20	8 9.9	19.0
161555 2004 XX_{121}	16.6	X	11.51664	296.80767	288.55934	8.06706	0.0486598	0.28154148	2.3055495	20	5 10.6	19.3
161556 2004 XZ_{146}	16.7	X	287.13453	174.06431	311.96002	17.74642	0.0602979	0.36998087	1.9216894	20	—	—
161557 2004 YF_{6}	16.1	X	218.62330	223.97779	108.45030	3.00647	0.2148080	0.27381812	2.3487021	20	3 3.3	19.9
161558 2004 YF_{17}	16.3	X	120.76134	242.65862	98.19964	3.42609	0.2077340	0.25713911	2.4491983	20	—	—
161559 2004 YO_{21}	16.6	X	99.67757	271.89052	107.75612	2.26781	0.2588116	0.26126453	2.4233478	20	1 13.9	19.1
161560 2004 YW_{34}	16.5	X	258.50433	103.33042	254.05986	1.04931	0.0494596	0.21636530	2.7479636	20	5 31.9	20.0
161561 2005 AR_{7}	16.2	X	354.82215	20.25799	25.54583	2.49838	0.1470704	0.24456765	2.5324257	20	—	—
161562 2005 AU_{10}	16.0	X	347.17497	9.35412	40.53704	5.62424	0.1458900	0.24365602	2.5387384	20	—	—
161563 2005 AB_{17}	16.5	X	49.69026	278.24203	133.75557	1.93602	0.1834197	0.25761406	2.4461871	20	—	—
161564 2005 AF_{35}	15.1	X	12.25006	175.01784	118.88979	16.48707	0.1437107	0.22781459	2.6551050	20	9 4.5	18.2
161565 2005 AD_{62}	15.0	X	201.84382	8.81251	323.96228	12.00139	0.0989427	0.20110776	2.8852504	20	2 22.9	19.4
161566 2005 AH_{64}	15.2	X	143.99607	141.50874	123.90053	11.21761	0.1890436	0.17700947	3.1415096	20	12 17.6	20.5
161567 2005 BX	16.0	X	342.46468	305.13230	88.39434	3.76633	0.2117545	0.24137032	2.5547406	20	12 9.5	18.1
161568 2005 BC_{2}	15.5	X	256.90626	227.27025	111.12936	6.34025	0.0714794	0.21388092	2.7692023	20	5 4.3	19.4
161569 2005 BH_{17}	16.3	X	308.17670	100.71502	295.55695	6.64828	0.1486708	0.23494739	2.6010915	20	9 22.9	19.1
161570 2005 BR_{23}	15.3	X	263.57455	52.90958	83.74255	6.58205	0.1084859	0.17811980	3.1284407	20	11 22.5	19.5
161571 2005 CB_{6}	14.5	X	86.78915	170.82688	151.83405	18.80462	0.0950563	0.17340629	3.1848781	20	12 26.8	19.6
161572 2005 CP_{50}	15.1	X	304.18033	14.56609	146.51172	9.83272	0.0812376	0.18476011	3.0530265	20	—	—
161573 2005 CX_{57}	15.2	X	245.01152	242.76450	300.15162	4.42135	0.1063670	0.17866948	3.1220209	20	12 24.6	19.6
161574 2005 DS	14.9	X	114.03808	146.95804	158.24741	3.51197	0.0738112	0.17327792	3.1864509	20	12 31.5	19.7
161575 2005 EZ_{10}	15.2	X	97.05057	110.53786	319.13909	7.49629	0.0480485	0.19491087	2.9460854	20	2 21.4	19.1
161576 2005 EY_{47}	14.7	X	131.65948	308.77996	347.62112	14.60500	0.0882482	0.17534535	3.1613547	20	—	—
161577 2005 EK_{72}	14.8	X	39.90701	17.74114	34.35479	11.46269	0.0556135	0.18334446	3.0687218	20	—	—
161578 2005 EL_{85}	14.9	X	48.87508	259.32300	137.94444	10.33972	0.0738826	0.18133925	3.0913025	20	—	—
161579 2005 EH_{121}	17.7	X	24.64209	21.40131	206.17938	1.91823	0.1809303	0.27194369	2.3594823	20	6 22.6	19.5
161580 2005 EV_{122}	14.7	X	164.94598	135.81111	158.89475	12.36397	0.0980238	0.18174426	3.0867083	20	—	—
161581 2005 EA_{204}	14.9	X	150.35965	150.80685	131.20958	18.01526	0.1878238	0.17935224	3.1140926	20	—	—
161582 2005 ET_{219}	16.7	X	28.98366	128.98834	198.62365	3.75595	0.0382520	0.28813785	2.2702264	20	11 10.8	19.2
161583 2005 GZ_{119}	15.8	X	179.21679	325.44139	336.11249	11.85702	0.2604366	0.24083135	2.5585507	20	1 1.2	20.4
161584 2005 GN_{123}	15.4	X	276.05773	61.17797	217.07447	10.15056	0.2769873	0.18714036	3.0270835	20	2 13.3	20.4
161585 Danielhals	15.7	X	90.34317	237.74974	99.72131	2.85193	0.1741404	0.17524811	3.1625239	20	—	—
161586 2005 JO_{88}	16.7	X	250.70502	326.62138	44.53169	6.93498	0.1476282	0.26524986	2.3990130	20	5 26.4	20.0
161587 2005 LC_{7}	16.5	X	334.36837	265.15065	186.51001	4.64575	0.0690996	0.29613396	2.2291737	20	—	—
161588 2005 LE_{30}	15.7	X	212.60174	215.15449	116.11164	2.46879	0.2218215	0.17669626	3.1452208	20	3 3.5	21.0
161589 2005 MF_{49}	16.1	X	276.77439	55.93918	206.23547	3.54647	0.1675442	0.24327086	2.5414173	20	2 2.6	19.8
161590 2005 NO_{49}	15.3	X	244.29567	193.16519	204.27416	5.28702	0.2069807	0.18955446	3.0013275	20	6 16.3	20.1
161591 2005 OG_{14}	16.5	X	298.07105	313.98234	30.92484	1.67144	0.2044934	0.25846654	2.4408054	20	6 15.5	19.1
161592 Sarahhamilton	17.6	X	130.83400	180.16653	259.78978	2.63515	0.1503529	0.23978754	2.5659704	20	4 24.6	21.4
161593 2005 QE_{28}	16.7	X	245.79378	92.59530	333.82862	4.65455	0.0842703	0.26133692	2.4229003	20	8 15.8	19.8
161594 2005 QR_{171}	16.5	X	126.71390	5.26017	313.80103	6.69306	0.2074879	0.28680092	2.2772761	20	—	—
161595 2005 SK_{19}	15.3	X	321.68307	120.61973	201.55296	5.64934	0.1596061	0.18515252	3.0487112	20	6 28.4	19.0
161596 2005 SK_{79}	16.8	X	339.70124	127.50333	19.42692	6.90226	0.1145840	0.28908116	2.2652850	20	—	—
161597 2005 SR_{85}	16.4	X	183.07042	300.32554	30.60419	2.83790	0.0450003	0.22849881	2.6498020	20	1 29.6	20.2
161598 2005 SF_{129}	15.8	X	322.10569	116.02301	24.95768	5.26609	0.1067662	0.21471434	2.7620319	20	—	—
161599 2005 SB_{153}	17.4	X	270.25207	147.15957	141.94084	2.22835	0.1453331	0.30468688	2.1872590	20	2 26.9	20.3
161600 2005 TE_{28}	16.9	X	354.02566	36.14005	45.55542	5.53098	0.2079326	0.27577044	2.3376038	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
161601 2005 TU_{75}	15.9	X	20.80051	128.96992	289.00784	8.04754	0.0834569	0.21222962	2.7835480	20	—	—
161602 2005 TQ_{129}	16.9	X	128.63421	78.03086	25.88325	3.89279	0.0156810	0.23998328	2.5645749	20	5 8.6	20.3
161603 2005 TY_{166}	16.2	X	39.77836	73.94963	280.08202	0.94129	0.0763251	0.20368402	2.8608697	20	12 14.6	20.1
161604 2005 TU_{174}	16.9	X	6.11577	192.75440	159.68841	6.00442	0.1139083	0.26659559	2.3909330	20	11 19.1	19.6
161605 2005 TR_{191}	15.9	X	28.00065	304.30116	176.14640	9.17310	0.0970267	0.22105276	2.7089777	20	1 18.3	19.2
161606 2005 UR_{38}	14.2	X	317.72861	327.91222	85.67668	3.20278	0.0805219	0.12759712	3.9075883	20	10 19.6	19.3
161607 2005 UW_{54}	16.7	X	157.41916	59.42805	310.78672	2.93820	0.1973023	0.29555457	2.2320861	20	2 22.8	19.9
161608 2005 UZ_{68}	14.2	X	107.17517	280.58977	246.10416	24.73784	0.2044485	0.18116313	3.0933056	20	7 17.0	19.5
161609 2005 UA_{83}	16.2	X	0.59449	311.11512	214.20946	12.53730	0.1996304	0.22356509	2.6886446	20	1 20.8	19.3
161610 2005 UN_{88}	15.9	X	75.97569	114.64718	73.03315	2.29218	0.1332778	0.17620743	3.1510351	20	7 7.7	20.3
161611 2005 UR_{110}	16.9	X	211.61720	298.76639	34.79608	3.85977	0.1630097	0.29845368	2.2176079	20	2 26.9	20.3
161612 2005 UQ_{127}	16.5	X	120.51436	193.99754	33.78943	2.61693	0.1648101	0.25966619	2.4332820	20	10 25.6	20.4
161613 2005 UE_{274}	15.9	X	139.34139	33.70950	350.20863	13.30140	0.1143994	0.22646376	2.6656527	20	2 23.6	19.7
161614 2005 UG_{427}	17.1	X	195.08483	68.09865	357.65697	3.07278	0.0870584	0.24171742	2.5522943	20	6 11.3	20.8
161615 2005 UQ_{440}	16.7	X	226.74028	240.42975	2.07414	7.43882	0.0775234	0.28474399	2.2882300	20	—	—
161616 2005 UB_{497}	15.2	X	91.49810	93.64233	79.59461	10.50932	0.0743647	0.17805611	3.1291866	20	6 29.9	19.7
161617 2005 UJ_{513}	15.5	X	274.77108	31.69990	40.58904	9.90137	0.0395193	0.19195645	2.9762375	20	10 2.7	19.6
161618 2005 VH_{117}	16.5	X	1.69727	132.82134	44.91718	2.77239	0.1383324	0.22415938	2.6838903	20	2 20.8	19.5
161619 2005 VH_{120}	16.2	X	309.72952	281.90563	307.31069	6.04937	0.1071396	0.27964621	2.3159549	20	2 3.1	18.8
161620 2005 WV_{57}	16.0	X	8.87468	228.38490	160.26404	4.68995	0.1576052	0.20050384	2.8910410	20	12 26.9	19.7
161621 2005 WM_{92}	15.6	X	66.72273	178.72406	74.91868	2.34742	0.2163304	0.18376729	3.0640128	20	10 1.1	20.0
161622 2005 WM_{115}	16.3	X	25.33862	7.65679	93.80466	5.06598	0.0622542	0.21045353	2.7991870	20	—	—
161623 2005 WF_{158}	15.7	X	300.25559	5.86435	285.90001	11.77029	0.0613110	0.22851564	2.6496719	20	4 22.9	19.4
161624 2005 WB_{202}	16.2	X	173.65375	138.35532	39.88008	1.81907	0.1612597	0.18361819	3.0656712	20	10 4.0	21.2
161625 2005 YJ_{7}	15.9	X	149.99964	217.56849	191.91284	12.41299	0.2863243	0.22935219	2.6432250	20	4 16.3	20.5
161626 2005 YD_{8}	16.9	X	205.50961	140.86753	109.25711	4.80955	0.2391307	0.26560093	2.3968986	20	—	—
161627 2005 YH_{8}	17.1	X	335.80385	344.59481	275.44061	4.93371	0.1467958	0.29471599	2.2363181	20	4 20.8	19.3
161628 2005 YW_{29}	15.7	X	355.27452	28.66522	53.70321	2.80804	0.0477401	0.19915810	2.9040498	20	—	—
161629 2005 YL_{47}	16.4	X	359.60266	49.18663	141.96352	5.70222	0.1265920	0.28152861	2.3056198	20	2 26.4	18.4
161630 2005 YP_{93}	16.9	X	205.55633	50.20327	300.71699	17.74909	0.0624223	0.35965399	1.9583011	20	2 26.7	19.5
161631 2005 YS_{130}	16.7	X	348.60407	287.66621	308.81089	7.85862	0.1405397	0.29299236	2.2450801	20	4 6.9	18.9
161632 2005 YB_{244}	17.3	X	146.36638	217.61810	61.18962	2.98399	0.1587707	0.26417580	2.4055111	20	—	—
161633 2005 YL_{247}	16.5	X	20.11145	319.73607	67.08028	2.85627	0.1202906	0.26253803	2.4155048	20	—	—
161634 2005 YN_{277}	16.8	X	154.49735	69.01395	281.02125	2.17816	0.2697680	0.28849747	2.2683394	20	2 1.8	20.2
161635 2005 YU_{290}	15.8	X	12.45564	165.51580	161.72798	1.60338	0.1800427	0.17961882	3.1110106	20	10 12.1	19.3
161636 2006 AR_{50}	16.9	X	356.39395	332.98413	278.50201	3.68865	0.1639846	0.29784629	2.2206217	20	5 24.2	18.2
161637 2006 AM_{58}	15.0	X	282.75864	142.94876	79.91113	17.95522	0.0591213	0.19787783	2.9165625	20	1 12.9	19.3
161638 2006 AA_{68}	15.8	X	120.76812	168.87972	129.51678	3.83072	0.1950294	0.19097177	2.9864593	20	—	—
161639 2006 AS_{78}	16.2	X	251.76467	236.40839	63.26721	1.87058	0.1071725	0.21845382	2.7304210	20	3 4.5	20.1
161640 2006 BJ_{5}	17.0	X	355.40993	140.04895	115.92962	5.17491	0.1748334	0.29808764	2.2194230	20	5 31.5	18.3
161641 2006 BE_{11}	16.4	X	245.32719	165.60890	87.57761	3.44029	0.1887136	0.27101402	2.3648751	20	—	—
161642 2006 BZ_{21}	16.9	X	241.50488	143.33626	119.11764	1.15216	0.1966330	0.27367744	2.3495068	20	—	—
161643 2006 BS_{25}	16.7	X	34.43889	252.97448	316.16667	5.85447	0.0945590	0.29248054	2.2476986	20	5 30.9	19.0
161644 2006 BC_{30}	16.3	X	208.38075	148.29898	111.22411	3.23288	0.1848480	0.26629446	2.3927351	20	—	—
161645 2006 BO_{40}	16.6	X	7.33845	293.84587	333.59191	5.84594	0.0808624	0.29663286	2.2266735	20	7 14.7	18.7
161646 2006 BL_{56}	13.7	X	334.17853	221.78322	20.67774	0.55812	0.0526315	0.08091942	5.2938003	20	4 20.1	20.5
161647 2006 BO_{69}	15.8	X	21.27790	203.76738	102.23857	7.35207	0.1316423	0.24223755	2.5486395	20	10 8.3	18.9
161648 2006 BH_{87}	16.5	X	289.45543	153.70603	128.84010	22.78424	0.1355002	0.28742366	2.2739856	20	3 22.2	19.8
161649 2006 BR_{95}	16.4	X	3.21219	47.86123	158.67014	4.71332	0.0745224	0.28502211	2.2867412	20	3 31.8	18.7
161650 2006 BM_{97}	16.0	X	138.04309	241.22929	352.03778	9.58896	0.0299379	0.24370322	2.5384106	20	11 10.9	19.6
161651 2006 BJ_{175}	15.4	X	280.18262	44.70769	104.49972	8.87103	0.0534476	0.19294549	2.9660579	20	—	—
161652 2006 BC_{181}	16.7	X	263.69547	177.43836	132.09765	8.44873	0.2535123	0.28718813	2.2752287	20	3 10.8	20.3
161653 2006 BB_{206}	16.2	X	23.10949	60.55733	227.10817	1.62823	0.2773207	0.23737187	2.5833498	20	10 3.7	18.9
161654 2006 BE_{211}	16.4	X	166.79178	170.29916	137.68843	9.51073	0.1956878	0.26497269	2.4006857	20	—	—
161655 2006 BZ_{234}	15.6	X	67.16400	279.78159	50.70127	1.48039	0.1767953	0.18946938	3.0022258	20	12 26.9	20.3
161656 2006 BG_{251}	16.9	X	172.00223	23.36059	237.93983	0.45197	0.1525051	0.25816584	2.4427003	20	—	—
161657 2006 BM_{268}	15.4	X	85.41505	208.27293	47.40468	10.70216	0.2366541	0.24134030	2.5549525	20	10 31.6	19.4
161658 2006 BS_{269}	16.2	X	224.73173	359.21636	58.01726	3.77392	0.2632901	0.23755634	2.5820123	20	6 19.0	20.6
161659 2006 CB_{23}	15.6	X	349.88447	351.69397	44.07944	9.80823	0.2099281	0.24267663	2.5455644	20	12 27.5	18.2
161660 2006 CW_{34}	16.7	X	294.77916	135.72561	151.95912	7.64286	0.1535539	0.29044325	2.2581972	20	3 28.6	19.4
161661 2006 CN_{59}	16.5	X	224.73272	58.21817	217.59454	0.75829	0.1695307	0.26923940	2.3752553	20	—	—
161662 2006 CV_{59}	16.2	X	350.11576	316.67606	335.69357	5.98319	0.1250841	0.29728893	2.2233964	20	7 23.9	17.9
161663 2006 DM_{3}	16.8	X	226.61285	80.33268	154.22252	3.24734	0.1251254	0.26363750	2.4087844	20	—	—
161664 2006 DM_{16}	12.6	X	252.94501	185.85899	134.28051	13.40246	0.0435879	0.08082531	5.2979086	20	4 19.4	19.8
161665 2006 DS_{48}	16.5	X	276.61668	237.67874	16.15506	6.72018	0.0844664	0.27634879	2.3343412	20	1 31.5	19.7
161666 2006 DN_{59}	16.4	X	161.18976	322.57184	348.53072	4.71520	0.1433720	0.26204331	2.4185440	20	—	—
161667 2006 DD_{71}	16.7	X	177.22057	320.12564	1.80434	2.13632	0.2160017	0.26907896	2.3761994	20	1 16.9	20.5
161668 2006 DS_{79}	16.5	X	199.24461	47.09578	216.89215	0.89910	0.1612291	0.26102438	2.4248339	20	—	—
161669 2006 DL_{83}	16.2	X	125.33978	102.16531	209.42767	1.92616	0.1877158	0.25610521	2.4557855	20	—	—
161670 2006 DP_{88}	16.4	X	122.59702	161.56776	169.52807	1.04576	0.1957922	0.25960383	2.4336716	20	—	—
161671 2006 DT_{90}	16.3	X	206.38309	349.26212	5.20586	6.67087	0.1385292	0.28128964	2.3069255	20	3 19.9	19.8
161672 2006 DB_{107}	16.6	X	235.45195	149.75391	189.45864	6.47909	0.1610266	0.28376798	2.2934738	20	3 27.1	20.0
161673 2006 DH_{211}	16.5	X	32.28288	155.32676	178.46281	1.49949	0.1779938	0.24210936	2.5495390	20	12 4.0	19.8
161674 2006 EM_{53}	16.1	X	174.86468	324.12414	334.71369	6.31659	0.1971556	0.26263123	2.4149333	20	—	—
161675 2006 FU_{1}	16.3	X	6.97366	108.42303	60.43917	4.98702	0.0572085	0.27711735	2.3300231	20	2 15.1	18.8
161676 2006 FQ_{4}	15.3	X	171.85645	234.25450	19.22424	11.11212	0.0845929	0.18182022	3.0858485	20	—	—
161677 2006 FM_{13}	16.3	X	311.12657	184.88968	177.16410	6.32489	0.1718310	0.29939645	2.2129501	20	8 18.5	18.0
161678 2006 FK_{17}	14.9	X	144.40279	289.39731	18.10522	16.42520	0.1221919	0.18535528	3.0464876	20	—	—
161679 2006 FY_{46}	15.1	X	259.68043	200.77510	59.41609	13.21183	0.1360056	0.20085562	2.8876644	20	1 26.4	19.7
161680 2006 GD_{15}	15.1	X	77.81343	255.40049	54.99991	6.04139	0.1645871	0.17113256	3.2130263	20	12 8.9	19.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
161681 2006 GK_{24}	16.0	X	148.37633	290.17185	57.37044	1.95994	0.2016509	0.26200343	2.4187894	20	1 21.8	19.7
161682 2006 GP_{33}	16.3	X	139.11641	199.02363	133.83139	0.52930	0.2278817	0.25995465	2.4314816	20	—	—
161683 2006 GY_{42}	15.6	X	344.43187	165.30141	84.80077	14.97529	0.1043683	0.21194548	2.7860352	20	5 9.4	19.1
161684 2006 GD_{50}	15.1	X	54.60097	254.21122	324.08033	12.70875	0.1694834	0.22260516	2.6963684	20	7 29.8	18.6
161685 2006 GD_{52}	15.7	X	334.46541	96.43763	158.86618	13.97756	0.1593606	0.21054544	2.7983723	20	4 22.8	19.0
161686 2006 HX_{16}	14.9	X	147.02802	240.74101	52.17777	17.95388	0.0864584	0.18142144	3.0903688	20	—	—
161687 2006 HC_{17}	15.3	X	86.07760	90.66988	173.80688	15.81309	0.1883380	0.23049030	2.6345167	20	11 8.3	19.6
161688 2006 HX_{24}	14.9	X	163.68448	68.71219	204.97621	9.40150	0.0666120	0.17922888	3.1155213	20	—	—
161689 2006 HD_{30}	15.4	X	339.09428	289.98873	41.71244	12.99700	0.2831393	0.22306403	2.6926693	20	8 28.4	17.5
161690 2006 HF_{32}	16.0	X	65.86661	225.04936	163.26679	8.69065	0.2681851	0.25585031	2.4574164	20	—	—
161691 2006 HX_{41}	15.3	X	310.04731	170.67414	77.81960	16.20267	0.0930824	0.20371374	2.8605915	20	3 22.1	19.5
161692 2006 HS_{44}	15.3	X	139.62468	242.63905	68.66111	4.11567	0.1258408	0.17972845	3.1097454	20	—	—
161693 Attilladanko	15.1	X	334.73903	206.15911	101.02069	10.80058	0.2633384	0.21664280	2.7456165	20	6 23.8	17.2
161694 2006 HV_{52}	16.4	X	247.51307	339.49861	269.97940	5.13238	0.0706688	0.26723179	2.3871368	20	—	—
161695 2006 HL_{81}	15.0	X	150.89334	252.15443	36.67349	11.77243	0.0607239	0.18036018	3.1024797	20	—	—
161696 2006 HR_{83}	15.9	X	268.98601	181.49744	166.73292	4.75444	0.0822200	0.21345020	2.7729264	20	5 29.5	19.8
161697 2006 HZ_{104}	15.1	X	20.92463	149.99137	75.38380	13.58642	0.1097769	0.21379036	2.7699843	20	6 2.7	18.1
161698 2006 HL_{120}	15.9	X	124.30470	189.84291	146.27820	0.46921	0.1786659	0.18070857	3.0984909	20	—	—
161699 Lisahardaway	15.4	X	86.02575	294.73230	30.55213	0.67213	0.1463208	0.17037414	3.2225545	20	—	—
161700 2006 JK_{32}	15.5	X	161.54258	169.79191	103.96665	11.90039	0.1835562	0.17723393	3.1388566	20	—	—
161701 2006 JW_{41}	12.6	X	358.31325	195.47020	179.72768	14.91105	0.0569370	0.08169158	5.2603890	20	10 21.5	19.3
161702 2006 JZ_{46}	14.8	X	159.15816	184.62801	93.11805	10.44959	0.0631973	0.17990514	3.1077089	20	—	—
161703 2006 JH_{52}	15.3	X	186.53811	249.80479	21.23359	6.15067	0.0712191	0.18548463	3.0450710	20	—	—
161704 2006 JL_{55}	15.8	X	167.29452	289.79499	283.35920	7.82746	0.1611188	0.24439291	2.5336327	20	11 14.9	20.0
161705 2006 KJ	15.3	X	190.60358	349.11331	296.33377	3.62285	0.0506287	0.18722496	3.0261716	20	—	—
161706 2006 KG_{2}	16.5	X	7.99746	358.51634	275.14249	6.10224	0.1104307	0.28806790	2.2705939	20	7 25.5	18.5
161707 2006 KY_{2}	15.6	X	346.17380	185.00038	114.66322	3.14387	0.0561372	0.21830505	2.7316613	20	7 18.5	19.0
161708 2006 KX_{37}	14.9	X	66.75190	140.68045	169.87284	23.13661	0.1689694	0.17882449	3.1202164	20	12 3.1	20.0
161709 2006 KJ_{48}	16.1	X	114.62376	208.17076	111.92344	4.47580	0.1626260	0.24577870	2.5241000	20	—	—
161710 2006 KV_{75}	16.7	X	33.09903	342.52075	256.08586	5.79947	0.0130418	0.28776808	2.2721708	20	7 3.9	19.2
161711 2006 KU_{88}	14.9	X	129.41299	268.71343	91.52729	16.17112	0.1064823	0.19099388	2.9862288	20	1 16.5	19.3
161712 2006 KF_{91}	16.0	X	290.23165	176.88185	178.87721	6.32138	0.0468345	0.21786856	2.7353087	20	7 11.7	19.6
161713 2006 KJ_{109}	16.1	X	248.94165	330.07177	30.40140	4.51511	0.2122390	0.21221902	2.7836407	20	5 4.7	20.4
161714 2006 MH	14.6	X	53.31855	206.53923	138.23855	18.49033	0.1232420	0.17007718	3.2263045	20	12 20.1	19.5
161715 Wenchuan	16.1	X	129.24327	3.81887	301.58952	3.56490	0.1567662	0.24142535	2.5543524	20	—	—
161716 2006 OS_{15}	16.2	X	49.37947	238.15641	353.36335	18.64161	0.0643256	0.35322826	1.9819792	20	8 11.8	18.4
161717 2006 PL_{23}	12.4	X	255.84907	156.20480	318.09180	16.85864	0.0324959	0.08138961	5.2733922	20	10 2.2	19.6
161718 2006 QP_{28}	15.9	X	219.76740	148.52423	162.27958	2.31740	0.1467353	0.18338264	3.0682959	20	2 15.5	20.8
161719 2006 QM_{123}	15.3	X	60.56708	67.42559	275.99158	5.49928	0.3575060	0.22320828	2.6915091	20	—	—
161720 2006 QK_{126}	15.8	X	349.62960	226.77387	112.45299	5.51122	0.0721897	0.21246275	2.7815114	20	9 19.4	19.2
161721 2006 RF_{11}	16.0	X	81.46160	120.92544	180.66403	12.08677	0.1790398	0.22460855	2.6803110	20	12 14.2	20.4
161722 2006 RH_{20}	15.7	X	347.04525	210.74389	190.71136	15.91928	0.1615765	0.22062441	2.7124829	20	12 15.6	19.0
161723 2006 RT_{21}	15.2	X	143.81948	201.91342	194.31595	5.05579	0.1451110	0.17670836	3.1450773	20	3 18.0	20.1
161724 2006 RB_{48}	16.3	X	48.99820	222.51060	173.48369	2.72794	0.1164627	0.22961211	2.6412298	20	—	—
161725 2006 RK_{48}	16.8	X	196.91541	168.84353	212.03058	5.90800	0.1123787	0.25677349	2.4515227	20	4 14.4	20.4
161726 2006 RB_{102}	16.1	X	294.09841	232.81251	202.13870	1.36509	0.0543772	0.21744273	2.7388786	20	11 1.5	19.5
161727 2006 SW_{7}	16.6	X	348.10650	317.59497	55.91709	5.80176	0.2099949	0.28649186	2.2789136	20	12 7.6	18.3
161728 2006 SQ_{20}	14.6	X	219.70231	178.42595	195.33847	15.86743	0.3212849	0.18474896	3.0531494	20	4 22.7	20.1
161729 2006 SZ_{23}	15.1	X	213.09792	208.01326	144.19583	12.17426	0.0701827	0.18094269	3.0958176	20	4 5.0	19.9
161730 2006 SE_{27}	16.6	X	94.64337	302.31813	285.89281	5.52364	0.0894758	0.28003924	2.3137874	20	9 23.2	19.8
161731 2006 SG_{36}	15.1	X	294.39614	259.73988	40.28260	11.30580	0.0804564	0.19275773	2.9679837	20	4 29.6	19.2
161732 2006 SV_{42}	16.7	X	263.26022	298.82313	109.44624	6.24199	0.2155201	0.27069629	2.3667252	20	7 24.7	19.6
161733 2006 ST_{44}	14.8	X	206.14507	272.00305	26.69650	25.58393	0.2548584	0.17792534	3.1307197	20	1 30.3	20.8
161734 2006 SP_{83}	17.3	X	108.93728	117.59109	77.98590	2.76748	0.1618874	0.27486930	2.3427102	20	9 6.3	20.8
161735 2006 SC_{87}	16.9	X	170.82892	314.37191	196.25315	6.21700	0.0568903	0.27628435	2.3347042	20	9 8.7	19.9
161736 2006 SA_{121}	16.8	X	27.31837	233.68369	61.59612	6.80887	0.1132121	0.27999033	2.3140569	20	10 6.3	19.4
161737 2006 SR_{121}	15.7	X	171.84749	251.37671	147.28827	10.67980	0.2414603	0.17790357	3.1309751	20	4 22.2	21.3
161738 2006 SD_{126}	15.5	X	134.81406	57.66798	325.03298	7.99377	0.2086879	0.24192706	2.5508196	20	2 22.6	19.2
161739 2006 SL_{126}	16.5	X	39.51112	236.31641	56.26703	4.48511	0.1399447	0.28316815	2.2967115	20	10 23.4	19.1
161740 2006 SE_{154}	15.1	X	277.06351	150.74199	140.63710	10.80481	0.0140227	0.18353656	3.0665802	20	4 10.5	19.5
161741 2006 SU_{207}	15.3	X	260.25855	304.96919	15.76815	10.82964	0.0859308	0.18522247	3.0479436	20	4 12.0	19.6
161742 2006 SV_{238}	17.0	X	214.63336	4.89560	161.80699	2.90992	0.0929920	0.29013173	2.2598133	20	11 25.2	19.8
161743 2006 SR_{253}	16.5	X	350.80665	93.45437	30.13589	2.53012	0.0774412	0.23571438	2.5954460	20	—	—
161744 2006 SK_{259}	17.4	X	284.00254	312.09870	328.47185	0.76702	0.1769835	0.25789562	2.4444063	20	3 2.9	20.6
161745 2006 SV_{262}	17.5	X	176.53434	205.36636	74.15969	1.53000	0.1119684	0.30443361	2.1884720	20	—	—
161746 2006 SF_{267}	15.6	X	289.54191	334.93035	226.78282	12.00354	0.2088011	0.23664465	2.5886396	20	—	—
161747 2006 SY_{272}	16.8	X	330.96979	149.27855	169.17254	2.15588	0.2245348	0.27383477	2.3486068	20	7 12.7	18.1
161748 2006 SR_{274}	14.8	X	73.49156	277.40360	238.42170	10.89795	0.0263731	0.17831483	3.1261591	20	5 8.1	19.2
161749 2006 ST_{274}	16.5	X	349.10819	191.71192	236.18562	2.47281	0.0650366	0.21707041	2.7420096	20	—	—
161750 2006 SQ_{285}	16.1	X	219.33614	63.45850	205.87748	1.75381	0.1738029	0.23898407	2.5717184	20	—	—
161751 2006 SU_{287}	15.6	X	227.93777	316.63175	70.30839	12.00531	0.2429655	0.26293878	2.4130498	20	5 17.3	19.6
161752 2006 SX_{289}	16.6	X	236.39896	358.97394	98.52690	24.66196	0.0580661	0.35162061	1.9880158	20	10 22.1	19.4
161753 2006 SW_{327}	15.4	X	216.86818	274.84308	61.93936	4.19713	0.1442765	0.18063264	3.0993591	20	3 16.6	20.4
161754 2006 SJ_{354}	15.1	X	262.06816	85.12470	165.82385	7.88984	0.2618514	0.17770315	3.1333288	20	1 7.2	20.5
161755 2006 SQ_{354}	17.0	X	330.92239	211.26269	169.90354	2.56893	0.1836117	0.28242535	2.3007368	20	11 7.9	18.5
161756 2006 SB_{360}	15.8	X	268.72035	284.89104	38.51394	9.54659	0.0708506	0.18796046	3.0182721	20	4 28.2	20.1
161757 2006 TH	16.4	X	161.69308	257.48549	171.03248	6.28161	0.1239978	0.25659414	2.4526650	20	5 12.1	20.1
161758 2006 TL_{18}	16.5	X	56.85305	318.45522	160.12368	2.52881	0.1247496	0.24350452	2.5397913	20	3 3.9	19.0
161759 2006 TO_{20}	15.8	X	359.45124	243.26783	213.01850	21.31175	0.1126387	0.22700286	2.6614307	20	—	—
161760 2006 TU_{25}	17.2	X	47.66713	46.60559	218.69698	5.47943	0.2120864	0.27756160	2.3275363	20	10 4.4	20.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
161761 2006 TK_{26}	15.6	X	248.83401	315.41749	20.15841	0.77614	0.1987534	0.18686153	3.0300941	20	4 6.9	20.4
161762 2006 TQ_{29}	15.2	X	243.70788	305.83931	37.50599	9.99562	0.1215885	0.18565167	3.0432442	20	4 19.3	19.9
161763 2006 TO_{30}	16.3	X	168.21563	314.50716	209.62384	10.71923	0.0948313	0.27583029	2.3372657	20	9 21.3	19.7
161764 2006 TV_{49}	15.1	X	103.08870	287.23559	191.57646	10.29998	0.0738260	0.18118673	3.0930371	20	5 7.5	19.6
161765 2006 TH_{55}	15.5	X	195.16396	358.30684	91.49776	9.56704	0.0958457	0.19244945	2.9711524	20	7 11.4	20.0
161766 2006 TC_{56}	15.4	X	192.80116	226.36037	79.25324	1.75454	0.1315612	0.17379249	3.1801581	20	1 18.7	20.5
161767 2006 TW_{62}	16.7	X	168.33616	354.31420	253.21515	4.61836	0.0914615	0.29850384	2.2173595	20	—	—
161768 2006 TA_{64}	14.9	X	280.63517	201.80838	121.77551	13.37912	0.0970239	0.19022908	2.9942274	20	5 14.3	19.3
161769 2006 TP_{67}	16.4	X	156.14575	205.46353	167.86017	2.68652	0.0923576	0.24592353	2.5231089	20	2 21.5	19.8
161770 2006 TK_{73}	16.1	X	157.71016	174.54497	143.18395	2.72007	0.1417463	0.23636894	2.5906522	20	—	—
161771 2006 TY_{86}	15.4	X	73.55590	281.52595	235.90459	8.15298	0.0497542	0.18134024	3.0912912	20	5 13.9	19.5
161772 2006 TG_{89}	16.6	X	295.59259	122.85494	237.45352	6.54083	0.1236847	0.27033567	2.3688296	20	7 17.9	19.3
161773 2006 TG_{90}	16.3	X	27.82745	108.03263	319.72524	2.17887	0.1031659	0.22669802	2.6638160	20	—	—
161774 2006 TU_{91}	14.6	X	104.86484	211.64129	235.62413	8.13135	0.0202177	0.17420886	3.1750889	20	3 19.7	19.3
161775 2006 TG_{108}	15.9	X	358.05053	282.87270	104.92960	22.75969	0.2809550	0.28650657	2.2788356	20	—	—
161776 2006 UJ_{7}	15.4	X	160.78693	243.13243	196.24015	8.96973	0.0273248	0.18437280	3.0573006	20	5 21.3	19.8
161777 2006 UE_{11}	17.1	X	71.50178	15.12603	183.51929	3.05687	0.0714679	0.26426808	2.4049510	20	7 10.8	20.0
161778 2006 US_{27}	15.2	X	307.90077	180.01421	29.09026	3.91755	0.1137768	0.16939163	3.2350035	20	1 24.2	19.6
161779 2006 UN_{50}	15.6	X	351.05752	329.02281	257.38061	6.24712	0.0587513	0.18316917	3.0706793	20	4 14.9	19.7
161780 2006 UQ_{70}	16.3	X	180.64288	261.11212	97.38410	9.72413	0.1148425	0.24757910	2.5118482	20	3 5.6	20.2
161781 2006 UX_{108}	14.9	X	37.25337	153.45663	60.80677	17.03335	0.1060890	0.18511745	3.0490963	20	6 11.7	18.8
161782 2006 UJ_{112}	15.3	X	162.09257	132.33954	207.18580	7.60836	0.0231875	0.17279284	3.1924117	20	1 19.8	20.1
161783 2006 UB_{132}	15.5	X	114.61235	301.72964	0.86429	12.11431	0.2169886	0.22706617	2.6609360	20	—	—
161784 2006 UZ_{138}	15.7	X	108.02755	280.40258	27.73325	12.90627	0.2739949	0.22557905	2.6726179	20	—	—
161785 2006 UR_{179}	15.4	X	137.01442	348.84444	89.37784	7.80524	0.0307406	0.17987378	3.1080701	20	4 23.8	19.9
161786 2006 UK_{189}	14.8	X	81.90663	122.77743	318.56345	11.93882	0.0228774	0.17134529	3.2103664	20	2 16.3	19.3
161787 2006 UA_{192}	15.8	X	195.75819	313.88765	250.93740	8.53252	0.0141142	0.21864207	2.7288535	20	12 14.1	19.6
161788 2006 UR_{208}	14.9	X	146.02112	184.25594	218.26811	20.25203	0.0136380	0.17470555	3.1690682	20	3 12.0	19.7
161789 2006 UW_{255}	16.0	X	189.43167	149.33574	226.76774	2.05847	0.3476820	0.17997040	3.1069576	20	4 4.9	21.8
161790 2006 UK_{261}	16.0	X	273.59505	88.23681	189.86826	0.68272	0.1395646	0.17836613	3.1255596	20	2 29.9	20.7
161791 2006 UM_{261}	15.3	X	239.81626	264.95825	129.24240	9.91140	0.2450389	0.19079874	2.9882645	20	6 6.1	20.3
161792 2006 UO_{274}	17.5	X	15.42071	224.58354	60.74152	2.63353	0.0981579	0.27491172	2.3424692	20	8 26.9	19.9
161793 2006 UT_{286}	15.8	X	23.71218	234.76617	272.15438	13.40435	0.0404045	0.23207914	2.6224788	20	2 9.9	19.4
161794 2006 UE_{287}	15.4	X	12.66879	215.51787	300.40797	12.58463	0.1967072	0.22641990	2.6659970	20	2 3.2	17.8
161795 2006 VJ_{29}	17.1	X	66.57643	34.32925	289.57277	2.58014	0.1889540	0.28901990	2.2656051	20	—	—
161796 2006 VT_{34}	17.3	X	276.54863	177.39785	230.55255	1.99709	0.2091764	0.27278932	2.3546036	20	8 13.0	19.8
161797 2006 VL_{45}	15.5	X	71.03125	193.54619	232.90046	13.87831	0.0943620	0.23317063	2.6142883	20	1 10.4	18.9
161798 2006 VN_{48}	16.1	X	325.93532	276.67877	150.41813	11.73617	0.2489448	0.21404480	2.7677887	20	12 13.8	18.6
161799 2006 VT_{51}	16.7	X	280.12048	135.83411	44.44857	1.75297	0.0079554	0.22421266	2.6834652	20	—	—
161800 2006 VJ_{63}	15.8	X	278.63451	294.05209	59.07722	2.80595	0.0902753	0.18903212	3.0068538	20	6 15.2	19.9
161801 2006 VS_{64}	15.8	X	224.84338	266.99951	77.31552	3.21553	0.1535338	0.17867188	3.1219929	20	3 31.8	20.9
161802 2006 VN_{75}	16.8	X	222.95680	293.86518	262.53851	5.94533	0.1181658	0.28560011	2.2836549	20	—	—
161803 2006 VL_{85}	15.2	X	198.68014	147.88568	267.80173	15.53662	0.2915382	0.18370875	3.0646637	20	5 26.8	20.8
161804 2006 VO_{87}	16.5	X	170.81125	311.35575	303.86641	4.33748	0.1497262	0.29478152	2.2359867	20	—	—
161805 2006 VQ_{89}	16.6	X	16.12904	250.53242	33.70235	3.59493	0.1253288	0.26791320	2.3830874	20	8 29.6	18.9
161806 2006 VZ_{92}	16.6	X	23.76660	218.93036	88.30056	8.08311	0.2386269	0.27929213	2.3179119	20	11 7.6	19.3
161807 2006 VS_{96}	17.0	X	201.01545	304.77092	136.92028	1.71617	0.1598342	0.26018537	2.4300440	20	7 5.9	20.8
161808 2006 VT_{119}	16.5	X	64.24135	182.75438	141.29460	0.68504	0.0708523	0.21344330	2.7729862	20	12 8.9	20.2
161809 2006 VM_{144}	15.8	X	162.81532	161.50571	3.94416	1.77684	0.0105863	0.20265690	2.8705280	20	9 12.1	19.7
161810 2006 VO_{147}	16.8	X	313.97085	83.82345	267.66234	1.58114	0.2450707	0.27177450	2.3604615	20	7 22.8	18.3
161811 2006 VL_{168}	15.7	X	180.27596	354.69462	90.35318	19.02064	0.1717139	0.18050557	3.1008135	20	6 18.9	20.9
161812 2006 WV_{24}	16.6	X	121.53212	327.22699	211.79071	5.78303	0.0512691	0.26415239	2.4056532	20	8 15.0	19.9
161813 2006 WW_{26}	16.3	X	336.49814	210.18950	78.31628	4.00714	0.1662429	0.26279953	2.4139021	20	6 9.9	18.4
161814 2006 WS_{27}	16.0	X	340.49822	71.46529	302.17490	0.96468	0.0300983	0.20486050	2.8499062	20	10 15.7	19.8
161815 2006 WK_{30}	16.8	X	313.82384	50.57481	337.96246	5.43881	0.2519565	0.27761718	2.3272256	20	9 28.4	17.8
161816 2006 WB_{45}	16.4	X	19.35780	126.68848	292.82266	3.01590	0.1987934	0.22143002	2.7058999	20	—	—
161817 2006 WL_{66}	15.2	X	230.03152	108.62227	221.64204	8.75689	0.2241335	0.17794781	3.1304561	20	3 11.8	20.7
161818 2006 WB_{86}	16.9	X	330.23031	238.98316	121.31324	4.25657	0.2321086	0.27706441	2.3303199	20	10 2.9	18.1
161819 2006 WS_{86}	16.2	X	127.69364	93.11602	257.84704	4.39204	0.1601438	0.30463037	2.1875295	20	—	—
161820 2006 WG_{89}	15.3	X	67.55109	295.27123	87.31323	15.52681	0.2829392	0.22429148	2.6828365	20	—	—
161821 2006 WP_{101}	16.3	X	276.49706	227.42010	93.12519	7.64459	0.0719794	0.25814120	2.4428558	20	5 4.3	19.5
161822 2006 WO_{103}	15.1	X	145.61463	237.96321	70.53977	14.46387	0.2503062	0.22899569	2.6459675	20	—	—
161823 2006 WG_{104}	16.2	X	69.15079	242.49580	73.72372	6.40736	0.0243721	0.21019878	2.8014482	20	11 28.4	19.9
161824 2006 WN_{131}	14.9	X	77.14302	197.80043	42.81533	14.63375	0.1133405	0.19663250	2.9288638	20	9 21.1	19.3
161825 2006 WE_{135}	16.4	X	37.98931	316.41376	131.30338	1.94097	0.1028280	0.23018834	2.6368201	20	—	—
161826 2006 WX_{148}	16.5	X	337.19374	65.72568	342.92905	2.18262	0.0649391	0.20991792	2.8039464	20	11 27.5	19.9
161827 2006 WX_{151}	15.8	X	18.08786	91.75482	270.53575	5.03902	0.0515707	0.20980850	2.8049212	20	11 24.4	19.5
161828 2006 WF_{178}	16.1	X	97.06019	266.84160	123.87563	6.92203	0.0557855	0.22223135	2.6993912	20	1 1.4	19.7
161829 2006 XQ_{8}	15.2	X	331.43745	232.36886	93.21632	11.09714	0.0387393	0.19105734	2.9855676	20	7 31.7	19.2
161830 2006 XZ_{25}	15.4	X	219.29447	136.26015	213.24483	4.42215	0.1536955	0.17732052	3.1378346	20	3 30.6	20.6
161831 2006 XZ_{32}	15.5	X	188.64900	115.35640	294.79324	15.28381	0.2454186	0.17775259	3.1327477	20	5 10.9	21.3
161832 2006 XV_{36}	16.3	X	243.33969	90.62741	324.11612	1.43036	0.1008994	0.18722703	3.0261493	20	7 19.4	20.8
161833 2006 XC_{49}	15.7	X	239.36869	117.97421	281.18403	7.37877	0.1360695	0.18358697	3.0660188	20	6 20.8	20.2
161834 2006 XU_{50}	16.2	X	214.37298	2.47011	119.75688	3.56874	0.0482872	0.19258638	2.9697440	20	9 17.1	20.5
161835 2006 XY_{50}	16.6	X	32.14150	263.14490	113.29446	6.70135	0.1118820	0.28345045	2.2951863	20	—	—
161836 2006 XX_{57}	15.3	X	181.03859	320.15696	89.26474	11.58741	0.2261100	0.17688516	3.1429812	20	5 11.0	20.8
161837 2006 XZ_{63}	15.1	X	345.11947	172.80971	176.22822	12.95342	0.1190474	0.20275421	2.8696095	20	9 22.9	18.3
161838 2006 XO_{66}	14.9	X	202.62350	282.96572	115.84757	18.52588	0.2059308	0.17668915	3.1453053	20	5 18.6	20.5
161839 2006 YB_{7}	15.7	X	66.67878	277.31616	199.47006	11.95350	0.0990980	0.23978332	2.5660005	20	3 12.0	18.7
161840 2006 YC_{16}	15.6	X	242.50541	127.59891	83.80645	10.87142	0.0652443	0.21758235	2.7377068	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
161841 2006 YN_{18}	15.3	X	257.78051	285.03424	110.86809	11.36889	0.1208364	0.19163234	2.9795923	20	7 9.9	19.7
161842 2007 AV_{7}	14.7	X	177.75543	16.89556	127.05162	18.05873	0.1390446	0.18514710	3.0487708	20	8 30.6	19.7
161843 2007 AZ_{7}	15.6	X	197.36092	285.48506	136.75495	9.58603	0.2831184	0.18147182	3.0897968	20	6 4.7	21.2
161844 2007 AZ_{9}	15.1	X	231.24009	308.77099	109.21130	15.07277	0.0584113	0.18387770	3.0627862	20	7 14.1	19.5
161845 2007 AK_{18}	15.7	X	46.36504	259.00099	258.52772	12.42759	0.0742874	0.23646845	2.5899253	20	3 30.4	19.2
161846 2007 AG_{21}	16.9	X	288.16624	298.25609	129.93548	1.90968	0.1472056	0.26911693	2.3759759	20	10 16.3	19.2
161847 2007 AP_{24}	16.2	X	129.26738	244.33859	104.46189	6.92484	0.0471463	0.22271726	2.6954636	20	—	—
161848 2007 AZ_{25}	16.3	X	333.05525	298.75835	164.20980	9.34396	0.1978738	0.21336878	2.7736317	20	—	—
161849 2007 AL_{27}	15.8	X	152.00655	62.54277	76.56153	15.30391	0.2062320	0.17823536	3.1270883	20	8 2.3	21.3
161850 2007 BY_{7}	15.4	X	328.89881	153.12918	335.89002	12.78533	0.1504330	0.21488741	2.7605486	20	—	—
161851 2007 BQ_{8}	16.9	X	302.34948	167.33952	355.10360	5.65367	0.0887671	0.28821927	2.2697989	20	—	—
161852 2007 BP_{18}	16.1	X	91.24923	174.03044	315.39044	13.71651	0.0858817	0.23897928	2.5717528	20	4 27.8	19.8
161853 2007 BR_{19}	15.4	X	325.93244	110.97227	339.20392	16.87316	0.2041805	0.21148592	2.7900699	20	—	—
161854 2007 BQ_{29}	15.8	X	338.22539	6.30259	129.16518	13.76148	0.1119191	0.21715964	2.7412584	20	—	—
161855 2007 BH_{30}	16.4	X	352.37706	177.07387	318.89764	4.11255	0.1081952	0.22064554	2.7123098	20	—	—
161856 2007 BL_{40}	16.1	X	53.54235	46.27507	200.69443	0.17549	0.1419366	0.18068490	3.0987615	20	8 25.0	20.2
161857 2007 BU_{40}	15.8	X	29.85754	219.40806	128.06678	15.44745	0.1821954	0.20201601	2.8765959	20	12 11.2	19.8
161858 2007 BD_{42}	15.1	X	61.99085	276.32763	311.08676	7.60550	0.1943482	0.17544587	3.1601470	20	8 17.5	19.5
161859 2007 BN_{42}	16.5	X	110.78403	17.55875	175.23328	2.68016	0.1387677	0.25420862	2.4679851	20	8 29.7	20.0
161860 2007 BP_{43}	15.3	X	199.23256	282.39404	132.35957	13.65226	0.2898991	0.17755591	3.1350608	20	5 29.6	21.1
161861 2007 BX_{44}	17.2	X	244.13110	289.08379	224.14958	2.19440	0.0929575	0.27581295	2.3373636	20	12 13.6	19.9
161862 2007 BJ_{49}	16.3	X	7.56904	72.15113	321.67338	13.92571	0.1543581	0.20430448	2.8550746	20	—	—
161863 2007 BP_{50}	15.3	X	341.19044	167.89137	9.55677	15.90969	0.1841511	0.22256774	2.6966707	20	1 13.2	18.8
161864 2007 BE_{53}	16.1	X	34.78539	310.70218	112.22941	6.22007	0.0536087	0.21637221	2.7479051	20	—	—
161865 2007 BX_{59}	15.7	X	59.82422	212.38654	282.67053	13.60056	0.1173435	0.23370509	2.6103011	20	3 23.6	19.1
161866 2007 BF_{70}	15.3	X	76.81661	149.32520	10.74081	15.94340	0.1135888	0.23262692	2.6183602	20	5 26.3	19.0
161867 2007 CD	15.9	X	97.58727	48.52377	9.99035	12.78677	0.1718024	0.23439139	2.6052032	20	2 26.9	19.4
161868 2007 CQ	14.4	X	8.78949	337.39136	285.57927	12.11465	0.1508104	0.17418499	3.1753790	20	7 5.3	18.0
161869 2007 CW_{5}	15.1	X	151.31463	232.37099	275.12663	11.80535	0.1196063	0.18178602	3.0862355	20	8 3.5	20.1
161870 2007 CC_{7}	15.6	X	200.68033	303.37634	137.67461	11.26407	0.1176457	0.18185477	3.0854576	20	7 4.3	20.5
161871 2007 CE_{12}	17.1	X	220.52323	85.43220	98.02311	3.44508	0.1513346	0.27301917	2.3532819	20	12 11.9	20.0
161872 2007 CM_{13}	15.6	X	174.95568	141.52001	300.03508	4.41191	0.0292802	0.18265190	3.0764740	20	6 8.8	20.1
161873 2007 CG_{15}	15.2	X	118.89068	78.81715	76.20186	25.72650	0.2175959	0.17325204	3.1867682	20	7 23.4	20.7
161874 2007 CS_{22}	15.9	X	324.47114	354.93106	152.45868	11.87638	0.2341698	0.21615876	2.7497138	20	—	—
161875 2007 CK_{25}	16.2	X	91.46511	314.24848	314.30499	3.91496	0.1116491	0.26195862	2.4190653	20	11 12.9	19.7
161876 2007 CW_{28}	15.8	X	226.22085	255.08616	173.19731	9.03859	0.1236341	0.18352903	3.0666640	20	7 13.3	20.6
161877 2007 CR_{34}	15.5	X	283.02531	251.03819	112.73167	11.10571	0.0708060	0.18038782	3.1021628	20	7 7.7	19.8
161878 2007 CL_{36}	17.3	X	167.45391	246.05612	333.35108	2.05738	0.0706399	0.27192744	2.3595763	20	12 5.0	20.6
161879 2007 CT_{40}	17.5	X	328.49443	121.48301	142.85368	5.62557	0.0606685	0.31357284	2.1457400	20	4 30.3	19.7
161880 2007 CP_{44}	16.5	X	165.15211	252.16042	146.85827	13.06516	0.1673944	0.24070681	2.5594332	20	4 12.9	20.8
161881 2007 CS_{45}	15.9	X	305.82507	98.14009	146.37833	15.06274	0.1664258	0.22878186	2.6476160	20	2 16.9	19.4
161882 2007 CM_{46}	16.1	X	343.88737	144.12320	322.62003	7.55121	0.1374176	0.21391296	2.7689258	20	—	—
161883 2007 CU_{46}	16.9	X	321.01080	259.15495	223.42296	4.38104	0.1045235	0.28503297	2.2866831	20	—	—
161884 2007 CD_{54}	15.3	X	220.41054	19.49084	111.56536	9.85991	0.0397793	0.18982468	2.9984784	20	10 9.4	19.7
161885 2007 CF_{56}	16.7	X	254.13377	221.83913	206.15145	2.57290	0.1669884	0.26320650	2.4114132	20	8 14.9	19.8
161886 2007 CO_{58}	16.4	X	28.66439	126.99693	341.05930	13.81611	0.1522258	0.22493503	2.6777169	20	1 5.3	19.4
161887 2007 CG_{59}	16.0	X	18.87043	285.05035	167.95707	12.95581	0.1362342	0.21798457	2.7343381	20	—	—
161888 2007 CP_{62}	15.3	X	109.48579	121.51722	359.77808	22.11311	0.0520084	0.23494623	2.6011001	20	5 2.2	19.2
161889 2007 DP_{3}	16.3	X	153.75096	260.30845	298.37077	6.74567	0.0534341	0.26321236	2.4113775	20	10 19.0	19.7
161890 2007 DT_{3}	17.0	X	95.07867	247.98860	215.60841	3.31932	0.2089868	0.23564222	2.5959758	20	4 23.4	20.4
161891 2007 DW_{10}	15.2	X	279.98212	86.97514	351.08987	10.36286	0.1289827	0.19106922	2.9854438	20	9 29.2	19.0
161892 2007 DK_{19}	16.9	X	144.48447	283.82944	149.57489	3.48955	0.1399697	0.23859394	2.5745211	20	5 1.7	20.7
161893 2007 DJ_{23}	16.1	X	128.55582	59.13624	196.98468	1.22547	0.1927361	0.19050831	2.9913009	20	11 26.4	21.2
161894 2007 DZ_{29}	16.6	X	330.76820	240.78399	33.81932	2.70566	0.1445449	0.23637028	2.5906424	20	5 9.7	19.4
161895 2007 DV_{30}	15.6	X	116.43944	166.10780	86.22003	1.49472	0.0837783	0.18918798	3.0052022	20	11 6.3	20.2
161896 2007 DE_{34}	16.6	X	57.95626	84.84557	11.11066	1.69529	0.0357683	0.22092501	2.7100219	20	1 30.4	20.1
161897 2007 DQ_{41}	17.1	X	96.92365	279.84324	156.31333	4.95635	0.1038235	0.30191096	2.2006457	20	2 25.0	19.3
161898 2007 DS_{44}	16.6	X	166.18517	88.08852	143.37022	8.93689	0.0635228	0.27234554	2.3571608	20	12 20.7	19.9
161899 2007 DZ_{44}	17.4	X	0.01063	254.72402	152.42216	9.59446	0.1729452	0.28018177	2.3130027	20	—	—
161900 2007 DF_{47}	17.5	X	222.44607	197.56910	282.04133	0.57924	0.1356585	0.26346972	2.4098069	20	9 20.3	20.7
161901 2007 DD_{51}	15.8	X	121.48763	37.85900	189.21466	14.18381	0.1437597	0.25905691	2.4370958	20	10 26.4	19.6
161902 2007 DG_{52}	15.3	X	188.67715	147.88149	349.40668	10.64482	0.1385042	0.18193770	3.0845200	20	8 31.2	20.1
161903 2007 DK_{54}	16.5	X	108.24388	116.13857	148.39026	3.10064	0.1738814	0.26311693	2.4119605	20	11 30.1	20.3
161904 2007 DU_{54}	16.5	X	216.67904	116.34382	181.77875	3.50379	0.0946004	0.22059598	2.7127159	20	1 25.6	20.6
161905 2007 DN_{59}	17.2	X	314.92684	296.29472	187.17786	2.39042	0.1182315	0.28216096	2.3021737	20	—	—
161906 2007 DW_{59}	17.1	X	99.95262	104.95986	357.32364	4.84839	0.0934491	0.30812944	2.1709372	20	4 4.4	19.4
161907 2007 DL_{60}	17.0	X	169.64649	325.53217	294.02902	3.01955	0.1566322	0.27633446	2.3344219	20	—	—
161908 2007 DD_{79}	16.5	X	153.11867	196.20583	121.98306	3.37651	0.0796655	0.21252608	2.7809589	20	—	—
161909 2007 DO_{82}	16.1	X	119.05371	59.38526	81.99310	11.50399	0.0839755	0.24434091	2.5339921	20	6 25.2	19.6
161910 2007 DE_{86}	15.7	X	329.72470	7.32690	346.20704	11.47077	0.1785618	0.25463693	2.4652168	20	9 9.5	17.4
161911 2007 DV_{91}	15.2	X	44.84187	158.20280	122.21927	2.28767	0.1423849	0.18069928	3.0985970	20	9 26.3	19.3
161912 2007 DY_{97}	16.9	X	159.64228	352.37324	235.20574	1.53160	0.1486320	0.26439231	2.4041977	20	12 1.1	20.5
161913 2007 EA	17.5	X	241.93684	122.98232	146.83326	6.84240	0.1442239	0.29594356	2.2301297	20	1 4.6	20.8
161914 2007 EE_{9}	17.1	X	166.14607	146.95336	157.00709	2.28069	0.2185740	0.27853029	2.3221366	20	—	—
161915 2007 EY_{24}	15.7	X	130.91419	83.17315	167.15155	1.25446	0.0651714	0.18620244	3.0372402	20	11 17.5	20.1
161916 2007 EO_{34}	12.8	X	263.35567	198.14382	112.92142	5.32922	0.0646621	0.08103778	5.2886442	20	4 15.4	19.8
161917 2007 EK_{36}	15.9	X	41.60011	24.56883	130.15988	9.60562	0.2159428	0.22876612	2.6477374	20	4 15.4	18.6
161918 2007 EY_{37}	16.9	X	213.29513	66.61310	187.40793	6.59539	0.0778049	0.28160832	2.3051847	20	—	—
161919 2007 EH_{48}	15.8	X	269.19657	9.90851	143.87427	2.93307	0.0267642	0.19686556	2.9265519	20	—	—
161920 2007 EP_{51}	17.4	X	352.95354	110.57245	33.92412	1.87070	0.1158781	0.28839961	2.2688525	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
161921 2007 EX_{56}	16.4	X	173.23371	167.57416	98.15106	7.73587	0.1134253	0.27629769	2.3346290	20	—	—
161922 2007 EA_{57}	14.7	X	145.27608	74.17746	52.62197	15.09226	0.0766574	0.16961596	3.2321505	20	7 3.5	19.8
161923 2007 EP_{86}	17.4	X	104.41589	249.58197	24.46827	1.46642	0.1687191	0.26634247	2.3924476	20	12 7.9	21.0
161924 2007 EZ_{86}	15.4	X	175.75966	309.07649	206.74267	15.10091	0.2182317	0.18339161	3.0681958	20	9 3.8	20.9
161925 2007 EM_{101}	15.0	X	53.15819	223.78788	38.67343	9.99503	0.1268186	0.17365604	3.1818238	20	9 14.9	19.4
161926 2007 EX_{108}	17.0	X	345.39274	339.32726	148.54709	3.51653	0.1054619	0.28508809	2.2863884	20	—	—
161927 2007 EU_{119}	15.4	X	81.17196	120.31775	150.88674	3.91662	0.1458750	0.17705027	3.1410269	20	10 28.3	20.1
161928 2007 EB_{133}	16.4	X	76.53121	270.17094	168.89451	4.79514	0.0689875	0.22087446	2.7104353	20	2 5.5	19.8
161929 2007 ET_{133}	16.4	X	25.32748	155.21723	10.89176	2.73435	0.0371860	0.22656273	2.6648764	20	3 15.5	19.6
161930 2007 EG_{161}	14.7	X	124.10601	38.06877	200.83438	16.87559	0.1870079	0.17857654	3.1231040	20	11 2.4	19.9
161931 2007 EK_{171}	14.8	X	95.87427	121.60912	131.24167	17.20440	0.2031176	0.17828109	3.1265535	20	10 31.8	20.1
161932 2007 EU_{172}	16.5	X	304.67129	279.67061	15.79740	1.37863	0.0847297	0.23260210	2.6185465	20	5 5.3	19.7
161933 2007 EB_{181}	17.2	X	355.54402	258.07332	358.92307	5.55224	0.1706504	0.30726842	2.1749908	20	5 31.0	18.5
161934 2007 EJ_{185}	16.3	X	55.80146	335.00175	165.92658	13.90761	0.1890945	0.22813845	2.6525916	20	4 17.4	19.3
161935 2007 EN_{199}	17.1	X	68.87743	7.23703	271.14801	0.42055	0.1620263	0.25549359	2.4597032	20	11 6.3	20.7
161936 2007 FX_{23}	16.7	X	329.23870	128.00692	105.10544	1.01855	0.0353597	0.22608277	2.6686467	20	3 25.1	20.0
161937 2007 FC_{34}	17.5	X	313.32032	287.80900	181.52865	1.74555	0.1589624	0.27775197	2.3264726	20	—	—
161938 2007 FB_{37}	14.9	X	128.20641	11.92523	202.39327	15.56817	0.0786733	0.17951870	3.1121672	20	9 30.6	19.6
161939 2007 FT_{38}	15.6	X	108.77753	69.31580	167.80761	14.09656	0.2533790	0.17612259	3.1520469	20	10 24.1	21.1
161940 2007 FU_{38}	15.5	X	289.73939	243.62650	34.15347	13.80071	0.1843906	0.22054427	2.7131399	20	3 15.1	19.5
161941 2007 FT_{43}	17.1	X	318.64072	123.03346	191.03339	1.62264	0.1518557	0.30997588	2.1623075	20	6 17.0	18.7
161942 2007 GS_{1}	15.5	X	330.09363	68.25450	191.04172	12.87186	0.1433962	0.22596122	2.6696036	20	4 18.7	18.5
161943 2007 GF_{18}	15.3	X	240.58861	196.97942	123.50777	13.63527	0.2617422	0.21736680	2.7395164	20	3 10.8	20.2
161944 2007 GM_{20}	16.0	X	349.06437	67.62380	204.73438	4.40694	0.1981972	0.23090506	2.6313609	20	6 10.2	18.2
161945 2007 GP_{21}	17.2	X	212.16696	340.54763	194.28954	1.96590	0.1322273	0.26253100	2.4155479	20	11 20.9	20.4
161946 2007 GX_{23}	15.7	X	112.88873	111.61357	218.46740	2.17738	0.1038232	0.19290376	2.9664857	20	—	—
161947 2007 GD_{25}	15.1	X	315.19260	314.05822	25.12049	9.85885	0.2760213	0.23387720	2.6090203	20	6 25.9	17.7
161948 2007 GU_{29}	15.4	X	163.00270	167.69135	41.47853	7.70687	0.1174996	0.18359292	3.0659525	20	10 31.5	20.2
161949 2007 GF_{30}	15.4	X	109.89342	103.77574	185.81615	0.94732	0.2525584	0.18263299	3.0766864	20	12 20.7	20.7
161950 2007 GJ_{41}	17.1	X	284.86212	324.39799	210.67843	5.30621	0.0800888	0.27741197	2.3283732	20	—	—
161951 2007 GX_{47}	15.4	X	60.29907	0.39779	205.58695	7.99582	0.1600482	0.23522094	2.5990745	20	7 16.4	18.8
161952 2007 GA_{60}	15.3	X	38.93836	153.60277	226.54468	3.99791	0.2161086	0.19039112	2.9925282	20	—	—
161953 2007 HD_{17}	16.4	X	136.87430	130.34004	99.40779	7.69240	0.0644201	0.25865137	2.4396425	20	11 13.8	19.9
161954 2007 HB_{18}	17.2	X	92.27271	151.41585	112.26408	2.41216	0.1691950	0.25241888	2.4796373	20	11 12.6	21.0
161955 2007 HZ_{26}	17.1	X	211.60180	314.70891	193.03270	4.61985	0.0959814	0.25641992	2.4537758	20	10 19.5	20.3
161956 2007 HG_{39}	16.3	X	333.71613	181.52287	147.29076	4.16585	0.2425651	0.23763867	2.5814159	20	8 1.3	18.0
161957 2007 HR_{41}	14.7	X	113.99084	81.69716	198.71125	16.80667	0.2008890	0.18064537	3.0992135	20	12 11.2	20.1
161958 2007 HV_{46}	14.6	X	357.96042	318.12037	50.71005	17.50454	0.2065092	0.17797818	3.1301000	20	11 12.5	18.0
161959 2007 HH_{48}	16.7	X	102.43404	173.69420	114.63481	2.44968	0.1815411	0.25803280	2.4435399	20	12 22.6	20.6
161960 2007 HA_{64}	16.8	X	263.74648	344.95697	194.24765	5.99234	0.0633059	0.27388162	2.3483390	20	—	—
161961 2007 HO_{65}	15.5	X	110.44671	143.47699	170.29482	14.40688	0.2181362	0.18579107	3.0417218	20	—	—
161962 Galchyn	15.3	X	279.22916	191.24418	100.88542	11.15749	0.1382440	0.22046887	2.7137585	20	3 26.7	19.3
161963 2007 HU_{85}	15.0	X	130.84732	260.80420	76.27160	13.61305	0.1703802	0.19642626	2.9309136	20	—	—
161964 2007 HV_{85}	17.1	X	71.40303	74.20008	69.77225	13.70945	0.2084911	0.22805542	2.6532354	20	5 18.2	20.4
161965 2007 HX_{87}	15.8	X	17.82473	139.45624	152.90133	13.87036	0.1766883	0.23737265	2.5833442	20	9 16.4	18.5
161966 2007 JP_{3}	15.0	X	165.92129	33.58058	188.27779	10.81891	0.2181896	0.18392957	3.0622103	20	11 16.8	20.4
161967 2007 JE_{28}	15.1	X	142.64625	170.43789	61.33280	7.30541	0.0921946	0.18042966	3.1016831	20	11 7.8	19.8
161968 2007 JQ_{32}	15.9	X	267.18422	210.52365	72.68516	9.66468	0.1471793	0.21448605	2.7639914	20	2 29.7	20.2
161969 2007 JS_{32}	15.6	X	347.96344	164.18358	184.24601	4.50599	0.2729213	0.24088882	2.5581438	20	10 22.2	17.2
161970 2007 JW_{34}	16.4	X	103.92312	294.33004	229.86650	3.38897	0.1225800	0.23605047	2.5929818	20	7 11.6	20.0
161971 2007 JN_{38}	16.9	X	354.23586	23.85818	191.05420	4.72291	0.0837264	0.29806320	2.2195443	20	3 24.8	18.8
161972 2007 JJ_{40}	17.0	X	228.64136	149.41548	174.81421	9.83857	0.2778414	0.28526610	2.2854371	20	2 25.4	21.0
161973 2007 KJ_{5}	16.2	X	62.35807	110.21012	57.58014	5.64965	0.0411279	0.22538972	2.6741144	20	5 10.3	19.7
161974 2007 KP_{7}	15.5	X	6.86584	301.67541	254.19319	10.85101	0.1050687	0.22293352	2.6937201	20	3 21.1	18.9
161975 Kincsem	15.5	X	40.04188	76.34497	215.27393	17.79480	0.2540892	0.23934358	2.5691425	20	10 30.9	18.7
161976 2007 LY_{1}	15.2	X	123.66217	160.33565	120.65371	9.41103	0.1293131	0.18285866	3.0741546	20	12 17.9	20.1
161977 2007 LE_{3}	15.3	X	339.43450	156.96250	208.57576	6.37181	0.3434329	0.23964468	2.5669900	20	11 4.2	16.3
161978 2007 LU_{16}	16.7	X	55.28875	264.32486	70.64625	3.94346	0.2207958	0.25358732	2.4720146	20	—	—
161979 2007 MU_{24}	16.5	X	135.60062	264.82824	108.34599	8.71123	0.1201267	0.27180430	2.3602889	20	1 29.8	19.6
161980 2007 OR_{3}	16.6	X	145.29453	86.82382	249.09775	2.07423	0.1981718	0.26464376	2.4026745	20	1 2.9	19.9
161981 4745 *P–L*	16.6	X	91.16749	306.67095	5.21494	2.89619	0.1783437	0.26671169	2.3902391	20	—	—
161982 6159 *P–L*	16.6	X	182.78323	359.83891	322.01137	3.54692	0.2287910	0.27151944	2.3619395	20	1 21.8	20.6
161983 6236 *P–L*	14.9	X	203.52227	106.20702	349.08930	16.09831	0.0656602	0.17768184	3.1335793	20	8 2.4	19.7
161984 6515 *P–L*	15.0	X	359.42200	346.62858	0.35060	15.45569	0.3185505	0.23077915	2.6323179	20	11 13.3	17.7
161985 1253 *T–2*	16.7	X	283.99183	112.59955	206.08646	3.18749	0.1934959	0.28941999	2.2635167	20	4 18.5	19.6
161986 3418 *T–2*	15.8	X	219.43809	247.13590	30.26040	4.31287	0.1550131	0.24108221	2.5567756	20	1 1.2	20.0
161987 2026 *T–3*	16.4	X	335.45927	51.44346	306.87789	2.73777	0.2047767	0.22864582	2.6486661	20	9 22.8	18.6
161988 4069 *T–3*	16.4	X	188.80661	219.34550	149.57455	5.24577	0.1953480	0.24310955	2.5425414	20	3 25.5	20.6
161989 Cacus	17.2	X	93.44821	102.18428	161.23177	26.06076	0.2140241	0.82808159	1.1231057	20	—	—
161990 1981 EY_{29}	16.7	X	181.21083	3.03726	167.64104	5.34435	0.2059842	0.23861554	2.5743657	20	10 6.3	21.0
161991 1981 EU_{36}	16.8	X	136.84943	248.17814	232.04316	4.06671	0.1684752	0.28293975	2.2979474	20	6 25.0	20.2
161992 1981 EK_{38}	16.6	X	54.51118	232.78275	297.93635	3.36072	0.0694057	0.27984894	2.3148362	20	5 2.6	19.1
161993 1981 EG_{45}	16.3	X	344.00298	279.74282	288.89584	3.49601	0.0733386	0.27746934	2.3280522	20	2 29.5	19.0
161994 1981 EK_{48}	15.9	X	343.83160	68.88074	337.92773	14.68893	0.0565250	0.24162074	2.5529751	20	12 12.8	19.4
161995 1983 *LB*	17.2	X	232.95899	220.68279	81.18814	25.27214	0.4790205	0.28501877	2.2867591	20	2 2.0	22.3
161996 1985 RH_{3}	15.8	X	321.91975	357.25719	10.55965	8.48996	0.3242538	0.22473069	2.6793398	20	8 26.4	17.5
161997 1987 *AN*	16.5	X	195.33721	221.64314	136.12758	3.00720	0.1864538	0.27408427	2.3471813	20	3 14.9	20.2
161998 1988 *PA*	17.5	X	45.83316	137.56872	162.13267	8.22431	0.4054931	0.31324855	2.1472206	20	12 15.9	21.2
161999 1989 *RC*	18.7	X	269.90835	181.35719	140.15270	7.37430	0.5127974	0.27982695	2.3149575	20	3 10.2	23.2
162000 1990 *OS*	19.4	X	234.47246	21.54378	346.53834	1.09244	0.4625460	0.45330309	1.6783284	20	4 10.9	22.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
162001 Vulpius	15.8	X	30.88498	164.42167	212.40159	14.25301	0.1949479	0.23545710	2.5973363	20	—	—
162002 Spalatin	16.8	X	328.02067	25.38326	318.91745	3.67641	0.2761432	0.22792559	2.6542429	20	8 7.1	18.7
162003 1991 TG	14.9	X	266.89584	208.42346	185.16741	31.93464	0.2799357	0.23264974	2.6181890	20	6 25.7	19.5
162004 1991 VE	18.2	X	78.14353	193.65006	61.86717	7.21852	0.6646503	1.17224505	0.8908210	20	1 1.5	17.5
162005 1992 SV_9	16.5	X	98.26926	211.69439	182.80538	0.90356	0.1832525	0.26122241	2.4236083	20	1 19.4	19.3
162006 1993 FU_{16}	15.2	X	1.40788	340.51685	110.82202	2.69375	0.1857178	0.17415719	3.1757168	20	—	—
162007 1993 FC_{32}	15.4	X	46.18825	274.01512	29.39476	12.72035	0.1857355	0.23166640	2.6255927	20	11 8.9	18.9
162008 1993 TW_3	16.9	X	318.65601	218.86165	1.75275	6.19264	0.0701452	0.27549752	2.3391474	20	2 12.7	19.6
162009 1993 TE_{19}	16.5	X	271.97809	123.93033	194.21358	4.98136	0.1840120	0.28255442	2.3000361	20	4 4.8	19.5
162010 1993 UN_6	16.9	X	160.29888	320.80034	93.73957	6.55440	0.1476103	0.27772288	2.3266351	20	4 24.1	20.4
162011 Konnohmaru	16.5	X	201.39025	343.01518	66.75366	4.55476	0.5975953	0.20703970	2.8298731	20	5 16.5	22.7
162012 1994 PY_{16}	16.3	X	338.50824	86.64455	281.66400	1.55235	0.1683161	0.22951134	2.6420029	20	10 15.0	18.8
162013 1994 PC_{17}	15.9	X	343.92806	67.86191	316.88864	5.95971	0.3475249	0.22999061	2.6383312	20	12 15.9	17.8
162014 1994 RF_{11}	16.6	X	313.90757	342.01412	353.47697	19.05796	0.0830780	0.37676116	1.8985642	20	8 11.4	18.2
162015 1994 TF_2	19.2	X	192.47194	349.75334	175.23900	23.75253	0.2840163	0.99577815	0.9931793	20	—	—
162016 1994 TC_{12}	16.3	X	263.72878	219.66446	177.86456	1.83775	0.0802672	0.22092254	2.7100420	20	7 27.2	20.0
162017 1994 UB_{11}	16.9	X	229.92593	96.83564	334.32391	5.79358	0.1145575	0.29779951	2.2208543	20	7 31.9	19.6
162018 1995 BD_8	17.1	X	245.71086	303.63074	4.99882	2.00062	0.1171343	0.27894139	2.3198545	20	3 2.2	20.2
162019 1995 DZ_4	17.1	X	179.22272	253.86934	170.08062	1.88676	0.1530336	0.28552179	2.2840725	20	5 22.9	20.4
162020 1995 DK_7	15.5	X	189.64941	337.32867	33.48908	2.36579	0.0455915	0.19903279	2.9052686	20	3 29.2	19.8
162021 1995 FV_{11}	16.0	X	173.92249	333.18179	30.14682	1.14328	0.0815337	0.19460450	2.9491767	20	3 4.3	20.3
162022 1995 FJ_{14}	15.7	X	188.85650	170.89654	172.77748	12.00443	0.1342985	0.19302014	2.9652932	20	2 24.6	20.5
162023 1995 GP_8	16.8	X	90.94752	290.62094	196.30090	1.73872	0.1855373	0.27872347	2.3210635	20	5 15.5	19.6
162024 1995 SK_{16}	16.5	X	16.20064	246.50164	174.85720	12.94811	0.1742081	0.24685468	2.5167600	20	—	—
162025 1995 SM_{25}	16.4	X	282.69941	280.85765	219.83855	2.29731	0.0417674	0.24475615	2.5311253	20	—	—
162026 1995 SJ_{58}	16.6	X	96.60625	322.58251	2.64567	1.60294	0.0506801	0.24548109	2.5261396	20	—	—
162027 1995 UN_{10}	16.5	X	343.16671	119.43164	256.88498	1.99686	0.1401647	0.23871893	2.5736223	20	11 6.4	19.2
162028 1995 UU_{55}	16.5	X	59.55917	12.85409	308.18040	1.09738	0.0574634	0.24156577	2.5533624	20	12 3.9	19.9
162029 1995 UP_{77}	16.8	X	69.74557	250.59825	36.09972	2.84745	0.1685874	0.23928826	2.5695384	20	11 15.4	20.6
162030 1995 VK_{12}	16.8	X	344.35274	315.37769	113.84884	2.45027	0.1758069	0.24169169	2.5524754	20	—	—
162031 1995 VE_{14}	16.6	X	276.42088	265.95241	168.29009	4.70108	0.0319224	0.23517058	2.5994455	20	10 13.7	19.9
162032 1995 WJ_8	16.1	X	87.17854	25.60015	280.55134	3.20250	0.1442634	0.24075133	2.5591177	20	12 24.9	20.1
162033 1995 WR_{37}	15.3	X	220.59531	294.94173	77.78881	12.81944	0.0861797	0.18115974	3.0933442	20	5 6.8	20.1
162034 1995 XT_1	15.5	X	342.13928	164.40005	277.23618	3.93539	0.2435006	0.23896729	2.5718388	20	—	—
162035 Jirotakahashi	15.4	X	81.09159	323.88505	36.87590	8.79093	0.2119286	0.24363355	2.5388945	20	—	—
162036 1996 AZ_{16}	16.1	X	49.05580	188.97059	181.03589	1.75737	0.1367704	0.23717023	2.5848138	20	—	—
162037 1996 BW_3	17.4	X	245.22584	288.99969	177.70069	3.51658	0.0625148	0.30743424	2.1742087	20	10 23.7	19.7
162038 1996 DH	16.6	X	273.18765	351.54860	309.29046	17.23329	0.2766933	0.49307776	1.5868131	20	2 11.9	18.4
162039 1996 JG	19.5	X	314.19545	280.21135	52.86005	5.28203	0.6606381	0.40755981	1.8016696	20	4 1.7*	21.8
162040 1996 KF_4	16.2	X	330.82860	222.37264	69.53492	7.37362	0.1385957	0.28912828	2.2650389	20	6 6.4	18.1
162041 1996 NL_4	16.6	X	253.21108	98.10902	197.27600	1.42709	0.1976517	0.27566608	2.3381937	20	2 15.3	20.2
162042 1996 OR	15.9	X	103.52589	136.03888	252.03512	9.09863	0.3022109	0.18332629	3.0689246	20	2 11.8	20.6
162043 1996 PP_7	15.7	X	93.23921	186.92157	140.61056	9.41460	0.2228121	0.17604948	3.1529195	20	—	—
162044 1996 RP_3	14.8	X	134.67987	5.45082	2.39047	10.48961	0.0940790	0.18346671	3.0673585	20	2 2.9	19.4
162045 1996 RM_{16}	16.5	X	243.10039	312.14775	348.15124	2.72011	0.0689750	0.27198607	2.3592372	20	2 21.8	19.5
162046 1996 RQ_{31}	13.1	X	284.28966	307.81550	141.03240	2.89753	0.0640993	0.08344231	5.1865493	20	10 11.5	19.8
162047 1996 RJ_{32}	12.5	X	341.95805	355.38196	25.15446	6.31060	0.0301811	0.08380604	5.1715313	20	10 6.5	19.2
162048 1996 RO_{32}	12.9	X	335.00122	221.68495	164.34056	4.03602	0.0876598	0.08205445	5.2448687	20	10 2.0	19.3
162049 1996 SZ_7	14.7	X	79.17926	72.29514	11.58662	17.18254	0.3172760	0.18068472	3.0987635	20	3 29.6	18.9
162050 1996 SD_8	14.9	X	56.21377	9.84434	20.62497	20.84432	0.1553364	0.17449335	3.1716369	20	—	—
162051 1996 TE_1	15.8	X	170.12042	243.31185	72.06155	8.67934	0.1235813	0.26285938	2.4135357	20	—	—
162052 1996 TB_{10}	16.5	X	152.66040	145.71154	195.65204	1.64724	0.2050913	0.26485108	2.4014205	20	1 17.5	20.1
162053 1996 TL_{27}	15.1	X	1.43718	166.91302	42.76301	12.64331	0.1200924	0.18891116	3.0081372	20	4 11.8	18.6
162054 1996 TF_{42}	16.3	X	222.13626	212.44505	110.18990	3.56503	0.2175604	0.27252847	2.3561059	20	2 23.2	20.1
162055 1996 VA_3	17.0	X	218.43469	9.85532	325.07725	0.97714	0.2023787	0.27024718	2.3693466	20	3 5.4	20.8
162056 1996 XM_4	16.3	X	169.27581	42.69982	345.57746	5.55494	0.1277918	0.26888644	2.3773335	20	3 25.3	19.8
162057 1996 XN_{28}	15.3	X	96.27861	48.60246	358.87090	0.51345	0.1735262	0.17808618	3.1288344	20	2 14.3	19.6
162058 1997 AE_{12}	17.9	X	207.29076	60.80383	304.81895	4.85381	0.5544893	0.27087321	2.3656946	20	3 27.5	23.2
162059 1997 AM_{17}	14.8	X	89.61997	107.95421	276.33802	7.18142	0.2303428	0.17310438	3.1885802	20	1 17.2	19.1
162060 1997 CF_2	15.9	X	93.29006	300.55530	313.08935	6.09609	0.1664696	0.23536329	2.5980264	20	10 25.9	20.1
162061 1997 CH_{22}	16.4	X	210.60148	171.43457	327.75044	3.27638	0.1517685	0.23516981	2.5994512	20	9 26.3	20.4
162062 1997 EQ_{16}	15.7	X	55.35920	64.78165	178.79491	9.59557	0.1586498	0.22445295	2.6815496	20	8 29.5	19.1
162063 1997 EH_{29}	18.9	X	242.76169	198.64199	175.12206	13.01288	0.6664210	0.73668432	1.2141763	20	4 12.5	20.9
162064 1997 GT_4	15.9	X	3.12381	291.55655	15.03728	6.10810	0.0972213	0.22622605	2.6675198	20	8 30.3	18.9
162065 1997 KB_3	16.8	X	335.54599	165.96783	194.22758	6.31185	0.1970879	0.30344374	2.1932287	20	10 23.5	17.9
162066 1997 MU_8	15.6	X	188.68951	98.23895	288.22827	4.61026	0.1340824	0.20270257	2.8700969	20	4 13.8	20.2
162067 1997 NH_2	16.0	X	194.17592	199.28331	180.40372	12.14777	0.1289480	0.20290995	2.8681410	20	4 14.6	20.5
162068 1997 SD_{29}	15.1	X	126.46954	76.59935	24.58653	16.08245	0.0999981	0.19694661	2.9257488	20	5 9.9	19.6
162069 1997 TC_3	15.8	X	101.67690	137.54309	316.90474	1.31651	0.0482410	0.19494283	2.9457635	20	3 29.5	19.9
162070 1997 TQ_5	16.8	X	303.34671	196.91374	122.34383	2.19555	0.1968144	0.29326847	2.2436708	20	5 18.4	19.0
162071 1997 TL_{15}	16.3	X	116.04242	117.58266	233.75999	2.75496	0.1279157	0.18704556	3.0281063	20	—	—
162072 1997 TT_{17}	15.7	X	32.94163	115.84258	205.56785	5.62062	0.1273114	0.30273346	2.1966579	20	11 25.6	18.3
162073 1997 UK_{18}	15.8	X	260.18220	271.01553	59.38416	5.99525	0.2139923	0.28722492	2.2750344	20	4 7.1	19.2
162074 1997 VX_2	14.9	X	127.99830	148.80460	272.40693	9.51180	0.2761430	0.19111070	2.9850118	20	4 8.9	20.1
162075 1997 WG_5	15.3	X	164.06896	47.07182	228.14001	16.34107	0.2832931	0.18080174	3.0974263	20	—	—
162076 1997 WV_8	15.4	X	78.25451	318.16312	66.90178	14.89565	0.1379192	0.18211037	3.0825698	20	—	—
162077 1997 WG_{11}	15.7	X	85.72681	155.58625	230.16342	2.45401	0.1546609	0.18416195	3.0596337	20	1 1.3	19.7
162078 1997 WS_{24}	16.6	X	225.34194	168.13334	230.54395	5.37659	0.0948086	0.28896794	2.2658767	20	6 10.3	19.5
162079 1997 WE_{35}	14.9	X	106.83749	7.74742	72.30689	14.59808	0.1964152	0.18983288	2.9983921	20	4 14.5	19.6
162080 1998 DG_{16}	19.9	X	266.57556	356.84734	344.34354	16.20747	0.3581729	1.16078645	0.8966738	20	2 14.6	18.3

* The additional opposition: 12 23.6, $V = 19.2$

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
162081 1998 FL_{123}	16.5	X	306.85783	272.72814	280.40208	1.51330	0.1277878	0.26086620	2.4258141	20	—	—
162082 1998 HL_{1}	18.9	X	174.79437	148.65372	213.54471	20.05200	0.1870440	0.70838799	1.2462981	20	—	—
162083 1998 HM_{25}	16.6	X	338.58272	25.54419	90.85459	3.20556	0.1660800	0.25691756	2.4506062	20	—	—
162084 1998 HB_{101}	16.0	X	41.83812	320.49317	217.33760	6.52269	0.1402621	0.26893918	2.3770227	20	5 3.1	18.0
162085 1998 HR_{127}	16.1	X	296.76590	345.86422	200.96565	6.41435	0.1312761	0.25822340	2.4423374	20	—	—
162086 1998 KT_{42}	16.1	X	39.88872	143.41963	155.16289	9.09090	0.1334295	0.23504089	2.6004017	20	10 23.5	19.5
162087 1998 KY_{63}	15.8	X	79.70616	12.73180	248.24410	5.03519	0.2741053	0.23532773	2.5982882	20	11 2.6	20.1
162088 1998 OV_{1}	16.4	X	5.78174	180.99847	130.50589	3.08751	0.1595189	0.22711522	2.6605528	20	9 16.6	19.2
162089 1998 OL_{13}	15.5	X	299.72719	38.37615	317.81097	4.17504	0.1771160	0.22086929	2.7104776	20	7 8.7	18.7
162090 1998 PP	15.6	X	280.37099	69.12700	334.27748	11.66358	0.1763795	0.22226065	2.6991540	20	8 14.9	18.9
162091 1998 QQ_{3}	15.1	X	242.25056	71.03214	331.08516	28.97277	0.2790799	0.21695602	2.7429733	20	6 15.7	20.2
162092 1998 QA_{4}	15.7	X	338.49013	356.22703	348.14296	12.17566	0.2718506	0.22487696	2.6781778	20	9 9.4	17.2
162093 1998 QV_{10}	15.5	X	332.05500	29.92491	323.66334	4.96435	0.2790948	0.22487966	2.6781564	20	9 3.2	17.2
162094 1998 QS_{24}	16.0	X	279.43922	42.75158	318.29020	8.44595	0.2302877	0.21839932	2.7308753	20	6 5.0	19.9
162095 1998 QC_{29}	15.9	X	283.22780	237.02115	112.93823	4.31052	0.1343370	0.21792264	2.7348561	20	6 11.3	19.4
162096 1998 QD_{30}	15.6	X	259.57269	76.59035	302.10758	10.53649	0.1837769	0.21773049	2.7364649	20	6 11.8	19.6
162097 1998 QF_{30}	15.7	X	292.03561	185.20190	196.10362	8.30049	0.0723397	0.22304644	2.6928109	20	8 13.8	19.2
162098 1998 QQ_{34}	15.7	X	290.32748	330.01353	353.46545	7.63093	0.2089843	0.21714707	2.7413641	20	5 1.3	19.4
162099 1998 QV_{41}	15.3	X	255.16107	359.15955	343.51895	11.85795	0.2700128	0.21397671	2.7683758	20	4 9.1	20.1
162100 1998 QD_{67}	15.2	X	311.35011	109.80780	271.47310	12.92863	0.1466465	0.22483444	2.6785154	20	9 1.0	18.4
162101 1998 QR_{85}	15.9	X	290.58723	157.84999	200.70200	9.27487	0.1631292	0.21902104	2.7257048	20	6 28.1	19.5
162102 1998 QV_{95}	15.2	X	250.76012	111.75579	274.97382	6.53164	0.2919730	0.21598569	2.7511825	20	5 31.4	19.6
162103 1998 RS_{1}	15.7	X	273.90315	36.70006	292.93182	8.24908	0.1629934	0.21340662	2.7733039	20	4 25.1	19.8
162104 1998 RM_{7}	16.3	X	235.84916	75.28508	352.78249	1.68989	0.0611753	0.22103473	2.7091249	20	8 4.5	20.0
162105 1998 RZ_{22}	15.6	X	291.83029	315.13804	7.36312	8.08949	0.2407092	0.21725355	2.7404684	20	4 27.7	19.4
162106 1998 RE_{23}	15.1	X	281.31001	11.23560	359.49776	16.04893	0.1626521	0.21951245	2.7216354	20	7 5.1	19.0
162107 1998 RQ_{26}	15.8	X	285.43501	355.64071	358.42319	9.29984	0.2324012	0.21826577	2.7319891	20	6 2.1	19.6
162108 1998 RH_{36}	15.9	X	279.18388	185.61822	184.48617	10.11083	0.2118497	0.21829329	2.7317595	20	6 20.5	19.7
162109 1998 RE_{39}	15.8	X	252.36832	49.39514	8.86263	7.70031	0.2472614	0.21840895	2.7307950	20	7 19.3	20.1
162110 1998 RQ_{63}	15.3	X	331.24656	240.47725	164.98492	14.95828	0.1469893	0.22805648	2.6532272	20	11 26.4	18.4
162111 1998 RT_{76}	15.1	X	310.56620	288.32443	30.10561	7.75180	0.2486652	0.21786702	2.7353215	20	5 19.6	18.3
162112 1998 RH_{79}	15.4	X	258.27938	56.81179	22.54555	16.21076	0.2542712	0.22028959	2.7152307	20	8 27.7	19.5
162113 1998 RE_{80}	15.1	X	258.11674	341.58135	44.38174	8.08145	0.2433957	0.21568912	2.7537038	20	6 11.3	19.3
162114 1998 SP_{9}	16.1	X	288.72958	195.39913	122.61611	4.41992	0.1962958	0.21398395	2.7683133	20	4 28.9	19.9
162115 1998 SP_{10}	15.6	X	325.86539	209.62289	171.28036	15.69934	0.2123164	0.22407782	2.6845416	20	10 7.7	17.9
162116 1998 SA_{15}	19.4	X	32.96241	331.45673	114.19647	7.11288	0.5588090	0.37176023	1.9155527	20	—	—
162117 1998 SD_{15}	19.0	X	136.08398	35.85401	183.93227	26.79717	0.3448361	1.09439469	0.9325814	20	—	—
162118 1998 SP_{19}	15.4	X	16.82124	291.65943	339.06275	13.33803	0.1815425	0.22238170	2.6981744	20	8 12.4	18.2
162119 1998 SV_{34}	14.8	X	270.28006	299.57117	16.79181	20.33502	0.2930037	0.21261186	2.7802108	20	3 27.2	19.3
162120 1998 SH_{36}	20.5	X	329.74856	278.73068	217.91130	2.13128	0.5710349	0.86864617	1.0878628	20	—	—
162121 1998 SD_{61}	15.6	X	23.76955	122.83189	218.02656	11.65255	0.1823278	0.22793159	2.6541962	20	11 29.2	18.9
162122 1998 SH_{63}	15.4	X	245.81217	72.85934	354.54828	8.53482	0.1503495	0.21898136	2.7260341	20	8 5.9	19.4
162123 1998 SW_{67}	15.9	X	51.04957	45.29036	248.29986	10.78691	0.1747869	0.22891084	2.6466213	20	10 31.6	19.6
162124 1998 SC_{69}	15.3	X	251.87615	73.10245	320.84787	13.36909	0.1368375	0.21720983	2.7408361	20	6 30.9	19.4
162125 1998 SC_{81}	15.6	X	296.68019	121.99949	244.65515	1.60896	0.1985622	0.21956348	2.7212137	20	7 14.1	18.7
162126 1998 SX_{83}	15.6	X	244.91027	4.80721	5.23101	5.84882	0.1123083	0.21368343	2.7709083	20	5 22.1	19.7
162127 1998 SO_{85}	15.2	X	284.19720	81.64019	6.22340	12.56055	0.2421099	0.22543116	2.6737867	20	10 8.9	17.9
162128 1998 SL_{87}	15.7	X	240.61699	95.29341	304.22050	3.83489	0.1757549	0.21490822	2.7603705	20	6 18.9	20.0
162129 1998 SZ_{91}	15.5	X	258.82467	27.52192	352.01956	8.94328	0.2202336	0.21544945	2.7557456	20	6 6.0	19.8
162130 1998 SP_{104}	15.8	X	357.07531	186.32025	159.50219	11.34980	0.1765958	0.22532267	2.6746449	20	10 24.1	18.7
162131 1998 SL_{127}	15.5	X	318.34514	347.82734	34.68461	10.14949	0.2875644	0.22261661	2.6962760	20	9 16.5	17.6
162132 1998 SA_{162}	16.0	X	264.07948	200.95034	166.61791	9.18039	0.1622130	0.21452767	2.7636338	20	6 6.6	20.1
162133 1998 SH_{163}	15.3	X	318.94270	307.70805	10.71079	8.17474	0.1838710	0.21705209	2.7421639	20	6 15.8	18.4
162134 1998 TJ_{24}	18.0	X	178.22682	330.50645	201.19511	0.81382	0.0784595	0.31496217	2.1394253	20	10 23.1	20.6
162135 1998 TE_{38}	14.8	X	205.66793	186.47627	252.21628	13.34948	0.1582486	0.21209825	2.7846973	20	7 3.6	19.3
162136 1998 UD_{5}	16.1	X	250.50361	254.93013	139.40737	2.77261	0.2704349	0.21442575	2.7645095	20	6 12.4	20.4
162137 1998 UJ_{10}	15.8	X	266.82331	122.98744	226.07264	3.97740	0.1755842	0.21220973	2.7837219	20	5 13.8	19.7
162138 1998 UY_{13}	15.8	X	311.18038	159.76409	172.59209	1.83195	0.0968866	0.21486206	2.7607658	20	7 4.6	19.1
162139 1998 UL_{19}	15.5	X	250.42800	325.02981	39.38317	17.66556	0.3088811	0.21320185	2.7750793	20	5 2.1	20.0
162140 1998 UX_{28}	15.7	X	252.41020	188.16302	170.89667	6.37058	0.2812605	0.21182046	2.7871314	20	5 1.9	20.3
162141 1998 UQ_{40}	15.6	X	243.91086	17.29979	5.46031	4.00420	0.1438671	0.21262294	2.7801142	20	6 3.6	19.8
162142 1998 VR	18.7	X	309.69119	170.70965	46.37866	21.80617	0.3178766	1.20322127	0.8754655	20	—	—
162143 1998 VJ_{1}	15.3	X	281.44356	156.78191	226.38549	16.39950	0.2899750	0.21686699	2.7437240	20	6 26.7	19.3
162144 1998 VZ_{32}	15.5	X	263.65347	230.18921	232.14939	8.18363	0.2197157	0.22064064	2.7123499	20	9 27.9	19.3
162145 1998 WH_{40}	15.9	X	104.76316	206.58524	60.33983	12.11703	0.0455648	0.22375492	2.6871237	20	11 15.2	19.7
162146 1998 XW_{34}	15.0	X	271.26106	304.29007	70.83173	9.21832	0.2891475	0.21355307	2.7720358	20	6 6.2	19.1
162147 1998 XV_{56}	14.9	X	267.85531	150.78099	250.12741	8.39039	0.1646853	0.21384811	2.7694855	20	7 21.9	18.7
162148 1998 XJ_{80}	15.1	X	198.44342	281.54682	186.05897	6.89917	0.2669174	0.21074654	2.7965918	20	7 27.8	20.2
162149 1998 YQ_{11}	17.3	X	118.05508	245.68495	256.64412	11.93621	0.3958573	0.38396171	1.8747532	20	7 22.2	20.7
162150 1998 YF_{20}	16.0	X	222.45218	311.17880	46.17436	1.44234	0.1401255	0.19995665	2.8963129	20	4 12.5	20.4
162151 1999 AS_{11}	15.0	X	128.65281	359.56730	292.57213	5.29961	0.1615347	0.17597476	3.1538120	20	—	—
162152 1999 AV_{13}	15.5	X	166.47674	67.98405	298.48736	9.57792	0.1108538	0.19320015	2.9634510	20	2 27.2	20.2
162153 1999 AP_{16}	16.6	X	76.12739	318.27043	270.40395	4.56985	0.0718876	0.29961426	2.2118775	20	8 31.9	19.3
162154 1999 AD_{20}	17.3	X	231.15860	96.90988	322.29116	3.22301	0.1064814	0.29804995	2.2196101	20	7 16.5	20.1
162155 1999 BV_{7}	15.3	X	193.43024	354.67184	59.37779	3.78650	0.2466082	0.20383360	2.8594699	20	5 22.2	20.2
162156 1999 BU_{28}	15.1	X	76.45540	26.09394	309.60078	8.43769	0.0692934	0.17464782	3.1697665	20	12 28.2	19.7
162157 1999 CV_{8}	19.7	X	205.48652	279.31685	131.98756	15.26554	0.3515644	0.66728042	1.2969716	20	5 27.7	21.4
162158 Merrillhess	14.7	X	257.10922	144.87086	255.23180	9.01995	0.2286611	0.21088978	2.7953253	20	6 30.2	18.8
162159 1999 CV_{140}	15.4	X	165.93410	47.84112	288.44731	0.52860	0.0876021	0.18757798	3.0223736	20	1 24.8	19.9
162160 1999 CR_{141}	16.4	X	59.23405	210.44326	311.40186	5.78949	0.1125787	0.28833131	2.2692108	20	5 1.9	18.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
162161 1999 DK_3	17.3	X	289.75056	103.08446	149.72485	43.14271	0.4432738	0.32034352	2.1153980	20	1 7.9	21.9
162162 1999 DB_7	19.9	X	359.36727	29.87260	157.60247	10.84084	0.1947612	0.74437026	1.2058040	20	—	—
162163 1999 ER	17.0	X	259.00396	145.30384	149.49340	3.49578	0.2114834	0.28151679	2.3056843	20	2 18.8	20.6
162164 1999 EQ_6	15.3	X	75.21246	46.63309	345.46998	9.85335	0.1245175	0.17895664	3.1186801	20	—	—
162165 1999 FT_{43}	15.1	X	32.38799	105.14316	56.95190	2.81925	0.1363834	0.18930166	3.0039989	20	3 30.9	18.6
162166 Mantsch	16.3	X	242.39318	163.20482	142.38102	10.47260	0.0800285	0.27629607	2.3346382	20	2 27.3	19.5
162167 1999 GH_6	16.1	X	265.43466	45.15867	159.52363	5.20068	0.1792984	0.26722989	2.3871481	20	—	—
162168 1999 GT_6	17.2	X	148.03767	78.86062	206.21579	4.06054	0.5871244	0.20990092	2.8040978	20	—	—
162169 1999 GB_{14}	16.4	X	313.95504	353.43558	14.79232	8.05868	0.1684525	0.29683419	2.2256666	20	9 10.6	17.9
162170 1999 GA_{45}	16.4	X	257.40437	41.68968	171.70547	2.47041	0.1577129	0.26722853	2.3871562	20	—	—
162171 1999 GC_{56}	14.6	X	53.92698	47.08535	2.31321	16.68523	0.1330299	0.17773428	3.1329628	20	—	—
162172 1999 GQ_{58}	15.5	X	219.54186	72.44452	190.55723	21.08142	0.2168239	0.26670720	2.3902660	20	—	—
162173 Ryugu	19.3	X	193.63760	211.48541	251.57825	5.88194	0.1903011	0.75955472	1.1896796	20	9 21.8	17.8
162174 1999 JS_{11}	15.6	X	231.31951	310.73917	219.36507	24.31239	0.1948806	0.30512887	2.1851463	20	12 8.4	18.3
162175 1999 JJ_{45}	16.5	X	207.01478	224.88153	64.10355	4.26869	0.1963837	0.26638168	2.3922128	20	1 1.4	20.5
162176 1999 JZ_{76}	16.6	X	245.56875	114.63205	126.10198	6.05135	0.1917653	0.26759769	2.3849602	20	—	—
162177 1999 JU_{102}	16.0	X	201.71700	219.68998	87.94151	5.82953	0.2045937	0.26812492	2.3818327	20	1 19.7	20.0
162178 1999 JT_{114}	16.6	X	260.23444	242.22029	26.61892	2.97124	0.1822513	0.27120347	2.3637737	20	1 22.9	20.1
162179 1999 JZ_{127}	16.4	X	203.90296	184.14493	115.22853	3.11515	0.2141401	0.26734690	2.3864515	20	1 11.3	20.5
162180 1999 KR_5	16.1	X	306.34124	196.90399	54.38169	11.52166	0.2072463	0.27750814	2.3278352	20	2 19.7	19.3
162181 1999 LF_6	18.2	X	139.36494	140.85547	208.51592	18.94176	0.2804866	0.58893905	1.4095781	20	—	—
162182 1999 LY_6	16.3	X	202.42564	349.52513	268.62237	4.58199	0.1606788	0.25912481	2.4366700	20	—	—
162183 1999 NB_5	21.1	X	334.75068	123.06731	235.39179	1.43066	0.5351017	0.33015353	2.0732838	20	—	—
162184 1999 NP_{22}	16.1	X	189.40235	168.92779	116.26224	6.59144	0.2597370	0.26030969	2.4292702	20	—	—
162185 1999 NK_{27}	15.7	X	96.16366	267.63536	115.84825	10.52119	0.2469992	0.25635755	2.4541738	20	1 12.8	18.2
162186 1999 OP_3	15.0	X	279.14096	271.24241	311.48434	27.56627	0.6098346	0.22061035	2.7125981	20	—	—
162187 1999 QR_2	16.5	X	55.11469	144.17627	148.27778	18.78956	0.2780829	0.24115495	2.5562614	20	11 25.4	20.8
162188 1999 RB_2	16.3	X	58.20230	346.54270	208.12602	21.70999	0.0482152	0.36806007	1.9283695	20	6 12.4	18.5
162189 1999 RQ_2	16.6	X	25.12632	71.50135	202.54214	20.71166	0.0787184	0.37510185	1.9041591	20	8 31.9	18.6
162190 1999 RP_{14}	17.1	X	294.15106	2.36671	340.93182	19.27448	0.0469754	0.37157862	1.9161768	20	7 17.9	19.2
162191 1999 RX_{16}	16.8	X	98.29737	161.63390	193.23262	5.02179	0.2165986	0.25126568	2.4872185	20	—	—
162192 1999 RY_{28}	16.8	X	4.10865	118.73034	161.81241	24.30092	0.1553373	0.37427380	1.9069667	20	8 17.3	18.0
162193 1999 RO_{30}	17.4	X	324.21240	130.25199	184.85740	21.98988	0.0883017	0.37145622	1.9165977	20	7 10.6	19.5
162194 1999 RP_{35}	16.2	X	28.60664	16.91946	6.06516	5.90536	0.2688244	0.24324501	2.5415974	20	—	—
162195 1999 RK_{45}	19.2	X	58.52042	4.09857	120.01926	5.89524	0.7733166	0.48780137	1.5982353	20	6 29.2	21.3
162196 1999 RL_{45}	18.7	X	108.50133	234.31152	171.93216	22.43162	0.3749384	0.39939425	1.8261433	20	3 1.2	20.4
162197 1999 RA_{50}	16.1	X	127.46682	93.93048	229.46844	3.78695	0.1998237	0.25401897	2.4692133	20	—	—
162198 1999 RM_{55}	16.2	X	219.38091	282.55987	22.26913	2.17582	0.1958062	0.26413107	2.4057826	20	1 31.3	20.2
162199 1999 RU_{101}	16.0	X	80.46976	75.27082	294.92820	6.30651	0.1306387	0.25146291	2.4859178	20	—	—
162200 1999 RY_{106}	16.1	X	29.94794	344.52061	340.92647	9.00122	0.1689388	0.23906035	2.5711713	20	11 14.3	19.5
162201 1999 RK_{117}	16.9	X	291.18826	53.92750	318.73582	17.45306	0.0854917	0.37562290	1.9023978	20	8 18.6	18.2
162202 1999 RB_{156}	16.3	X	3.08580	116.76964	269.65467	3.55813	0.2450951	0.24138698	2.5546230	20	—	—
162203 1999 RV_{158}	16.4	X	101.22608	140.40024	151.65205	3.92465	0.1599910	0.24604653	2.5222679	20	12 22.9	20.4
162204 1999 RJ_{160}	15.9	X	98.84217	275.30853	108.52094	5.29227	0.1949137	0.25442520	2.4665843	20	1 9.2	18.7
162205 1999 RH_{165}	16.4	X	0.71901	195.51974	189.69176	6.72779	0.2400532	0.24080625	2.5587285	20	—	—
162206 1999 RN_{165}	16.4	X	122.93037	54.35327	321.69842	2.09904	0.1928338	0.25655915	2.4528880	20	1 29.9	19.8
162207 1999 RK_{200}	16.1	X	19.72341	148.71181	236.29982	12.81015	0.1421985	0.24350234	2.5398065	20	—	—
162208 1999 RB_{258}	16.8	X	239.12423	236.93679	154.73383	23.92186	0.0923135	0.37113528	1.9177024	20	6 23.0	19.5
162209 1999 SD_3	14.7	X	257.00488	117.95012	327.48977	29.99982	0.3190153	0.22908729	2.6452621	20	8 18.8	18.7
162210 1999 SM_5	19.1	X	351.55380	319.17973	327.70892	5.20592	0.6949548	0.28265483	2.2994913	20	3 9.9*	20.5
162211 1999 SE_{18}	15.3	X	93.68324	246.74824	33.12456	13.05105	0.2884551	0.24488260	2.5302539	20	12 6.5	19.9
162212 1999 SP_{25}	16.2	X	43.15226	80.71023	251.72916	4.29947	0.1207063	0.24045355	2.5612300	20	12 6.9	19.7
162213 1999 TL_3	16.8	X	25.75298	32.67357	13.19904	11.13848	0.2799150	0.24438624	2.5336788	20	—	—
162214 1999 TC_{10}	18.6	X	280.61903	58.74514	27.70355	19.15429	0.5852494	0.27801453	2.3250076	20	8 21.5	22.0
162215 1999 TL_{12}	19.1	X	319.17712	346.76337	202.33629	17.33644	0.4365019	0.87622809	1.0815782	20	—	—
162216 1999 TD_{13}	17.0	X	3.48103	189.22667	211.06587	5.44171	0.3163902	0.23990795	2.5651118	20	—	—
162217 1999 TC_{34}	16.6	X	7.91808	193.49973	200.90464	5.97511	0.2321434	0.24129115	2.5552994	20	—	—
162218 1999 TW_{54}	16.4	X	103.61545	310.32848	257.88622	1.30459	0.0258031	0.22896420	2.6462101	20	8 26.9	20.0
162219 1999 TS_{63}	15.8	X	304.08996	221.25801	199.12277	5.15748	0.2531427	0.23328017	2.6134699	20	10 12.4	17.8
162220 1999 TL_{79}	17.1	X	118.22576	250.52788	34.17784	3.68584	0.1410860	0.24479965	2.5308254	20	12 28.9	21.0
162221 1999 TM_{87}	16.2	X	296.66937	310.35806	83.27470	4.03276	0.1147618	0.22938438	2.6429776	20	9 7.8	19.3
162222 1999 TS_{102}	15.6	X	41.69666	237.17525	127.01435	13.86147	0.2790407	0.24213827	2.5493361	20	—	—
162223 1999 TR_{119}	15.5	X	26.17055	336.65202	5.42446	13.71763	0.1574540	0.23891048	2.5722465	20	11 28.8	19.0
162224 1999 TD_{120}	16.1	X	7.59200	74.74474	278.81220	3.27548	0.1842854	0.23766780	2.5812049	20	11 23.3	18.9
162225 1999 TX_{121}	16.2	X	12.22094	89.94255	266.04198	2.80979	0.1761635	0.23835658	2.5762299	20	12 3.4	19.1
162226 1999 TR_{127}	16.3	X	315.30661	320.50469	87.32382	2.41023	0.2165711	0.23524097	2.5989270	20	10 26.3	18.4
162227 1999 TS_{127}	14.7	X	233.20236	322.45644	68.87399	3.95974	0.2741469	0.12670054	3.9260010	20	5 24.7	21.1
162228 1999 TS_{132}	16.5	X	10.76782	44.06576	351.33699	3.74442	0.1829882	0.24229295	2.5482510	20	—	—
162229 1999 TJ_{143}	16.5	X	36.68842	181.77225	185.04583	8.84642	0.2195651	0.24255191	2.5464369	20	—	—
162230 1999 TS_{148}	16.7	X	13.10937	192.38804	181.66137	4.80656	0.1282531	0.24044476	2.5612925	20	12 22.1	19.8
162231 1999 TP_{149}	16.4	X	128.36195	322.36642	22.73154	2.43336	0.0886565	0.25165804	2.4846326	20	—	—
162232 1999 TC_{154}	14.5	X	211.84548	352.13800	38.96629	11.61393	0.3567910	0.12393715	3.9841443	20	5 5.6	21.5
162233 1999 TL_{173}	16.4	X	59.08207	186.14622	186.34026	7.12117	0.2333359	0.24495601	2.5297483	20	—	—
162234 1999 TQ_{185}	15.5	X	16.16700	17.99510	325.47428	13.29996	0.1667264	0.23733176	2.5836409	20	11 16.3	18.9
162235 1999 TR_{185}	16.5	X	116.19063	72.47310	355.90909	18.66447	0.1242774	0.35473048	1.9763797	20	3 11.7	18.5
162236 1999 TE_{192}	15.5	X	18.54667	350.01177	355.80981	11.91229	0.1880498	0.23698915	2.5861303	20	11 27.7	18.8
162237 1999 TF_{196}	16.3	X	35.18144	0.32685	10.85120	13.52710	0.2725866	0.24158605	2.5532195	20	—	—
162238 1999 TP_{198}	15.5	X	326.07333	21.72192	21.93673	9.64747	0.1323345	0.23408457	2.6074792	20	11 9.8	18.2
162239 1999 TU_{198}	16.4	X	340.48223	66.49076	345.52786	4.16894	0.3492082	0.23726302	2.5841398	20	—	—
162240 1999 TU_{208}	15.8	X	285.76421	104.30079	352.67640	14.31064	0.0754716	0.23625848	2.5914596	20	11 15.3	19.3

* The additional opposition: 11 11.2, $V = 20.8$

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
162241 1999 TZ_{217}	16.7	X	355.77838	25.24638	350.70015	2.48238	0.1857486	0.23756199	2.5819713	20	12 4.4	19.4
162242 1999 TC_{219}	16.7	X	46.97280	187.81240	161.95257	4.79589	0.2184497	0.24294657	2.5436784	20	—	—
162243 1999 TS_{228}	16.2	X	67.24955	211.90687	163.47619	9.02401	0.3091694	0.24681893	2.5170031	20	—	—
162244 1999 TD_{236}	15.1	X	324.21373	80.14310	39.12072	7.35106	0.0349841	0.24630895	2.5204761	20	—	—
162245 1999 TT_{241}	15.9	X	9.83663	290.35521	112.97437	5.82084	0.1004607	0.24177836	2.5518654	20	—	—
162246 1999 TO_{248}	16.3	X	6.77480	188.69350	205.61324	13.35666	0.2803413	0.23934269	2.5691489	20	—	—
162247 1999 TJ_{253}	15.7	X	298.80813	345.53218	68.40284	7.24107	0.2806097	0.23237224	2.6202731	20	9 19.6	18.1
162248 1999 TW_{267}	15.6	X	314.88228	138.50681	276.43244	10.55635	0.1752637	0.23690787	2.5867218	20	11 3.1	18.2
162249 1999 TX_{277}	16.1	X	164.53608	183.82557	9.56038	5.80922	0.0748693	0.23490854	2.6013783	20	10 21.6	19.9
162250 1999 TK_{288}	16.3	X	288.02781	264.07303	160.42519	3.69246	0.1279515	0.23293501	2.6160510	20	10 4.7	19.2
162251 1999 TM_{289}	16.5	X	318.28663	232.33972	155.43319	5.00945	0.2837265	0.23268544	2.6179213	20	9 24.8	18.1
162252 1999 TJ_{290}	16.7	X	32.70505	230.06393	164.15023	4.75416	0.2250974	0.24327496	2.5413888	20	—	—
162253 1999 TQ_{297}	16.5	X	25.29608	270.12915	63.51830	5.45319	0.1402361	0.23528415	2.5986089	20	11 16.9	19.8
162254 1999 TC_{313}	16.3	X	89.34720	147.96825	185.11392	10.12257	0.0712525	0.24705705	2.5153855	20	—	—
162255 1999 TU_{313}	16.6	X	304.91225	148.42851	277.77132	2.26772	0.1112060	0.23865394	2.5740895	20	11 6.6	19.5
162256 1999 TR_{314}	14.0	X	201.89491	76.34567	328.80224	8.96604	0.2784886	0.12526389	3.9559622	20	5 15.3	20.8
162257 1999 TS_{314}	16.2	X	8.36564	139.73115	201.89847	5.90490	0.1258234	0.23608801	2.5927069	20	10 31.2	19.0
162258 1999 TY_{322}	16.7	X	57.62634	308.19416	47.04647	9.20937	0.2430743	0.24429768	2.5342911	20	—	—
162259 1999 UV_{9}	14.8	X	266.01466	101.90626	0.10252	27.24561	0.2800868	0.23167958	2.6254931	20	9 24.8	18.1
162260 1999 UB_{10}	16.9	X	284.01970	351.20384	355.24162	19.50579	0.1031207	0.36659649	1.9334985	20	6 13.4	19.3
162261 1999 UE_{17}	16.8	X	254.01651	227.92732	207.94826	21.17324	0.0814741	0.37307336	1.9110552	20	9 26.2	18.7
162262 1999 UZ_{20}	16.6	X	49.43011	207.92191	184.24940	5.52089	0.1497073	0.24683056	2.5169240	20	—	—
162263 1999 UB_{25}	16.7	X	357.98297	99.51441	269.52650	3.83421	0.2604561	0.23718700	2.5846920	20	12 10.9	19.1
162264 1999 UN_{38}	15.6	X	276.75031	136.64827	290.25360	4.22397	0.2232242	0.23184562	2.6242394	20	8 31.9	18.7
162265 1999 UD_{39}	15.5	X	339.45845	145.46064	265.66005	4.88925	0.2598704	0.23810850	2.5780190	20	—	—
162266 1999 UR_{45}	16.3	X	17.21237	81.15352	308.37591	4.48583	0.2854632	0.24127286	2.5554285	20	—	—
162267 1999 UC_{47}	15.7	X	49.99942	90.88016	239.76022	6.74151	0.1583977	0.23975563	2.5661981	20	12 17.7	19.2
162268 1999 UL_{51}	15.7	X	324.24719	316.89945	118.11000	5.95480	0.1670057	0.23775636	2.5805639	20	12 26.5	18.2
162269 1999 VO_{6}	17.0	X	309.75450	302.49743	206.87696	40.11110	0.7379791	0.81468978	1.1353799	20	—	—
162270 1999 VU_{7}	15.8	X	293.85518	3.19650	76.82028	3.73914	0.1646120	0.23367456	2.6105284	20	11 1.8	18.4
162271 1999 VC_{8}	16.0	X	29.42144	289.29427	78.60485	5.79019	0.2870770	0.23931426	2.5693523	20	—	—
162272 1999 VQ_{9}	15.1	X	317.37542	204.24371	222.71943	4.17484	0.2663904	0.23467979	2.6030685	20	11 29.7	16.6
162273 1999 VL_{12}	17.2	X	199.86487	40.92142	234.41269	20.18276	0.2361780	0.48984033	1.5937971	20	—	—
162274 1999 VO_{19}	16.1	X	70.11283	281.23952	66.23533	10.02315	0.2173765	0.24370503	2.5383980	20	—	—
162275 1999 VM_{21}	15.6	X	68.37062	148.62177	212.92286	1.10232	0.0446954	0.24362531	2.5389518	20	—	—
162276 1999 VC_{33}	16.5	X	328.42141	128.10932	265.41398	2.24782	0.2080565	0.23359813	2.6110978	20	11 2.8	18.6
162277 1999 VY_{44}	16.1	X	13.90831	132.04614	236.37653	9.75533	0.1965256	0.23950022	2.5680222	20	12 25.4	19.3
162278 1999 VU_{49}	16.1	X	48.92687	323.67508	40.28673	6.86727	0.2504270	0.24252407	2.5466318	20	—	—
162279 1999 VS_{57}	15.9	X	330.66780	346.01610	38.96770	5.01289	0.0534214	0.23402017	2.6079576	20	10 23.9	19.0
162280 1999 VN_{59}	14.3	X	229.41317	341.13960	34.82884	3.24539	0.2288807	0.12386858	3.9856145	20	5 6.9	20.7
162281 1999 VF_{62}	16.2	X	330.78280	130.68743	272.81086	0.35771	0.1419960	0.23585294	2.5944294	20	11 21.7	18.7
162282 1999 VS_{69}	16.0	X	255.91544	253.35653	208.29973	1.52875	0.0896738	0.23254229	2.6189955	20	10 11.6	19.3
162283 1999 VJ_{73}	17.0	X	325.40628	259.85423	183.69116	2.45893	0.2062481	0.24071145	2.5594003	20	—	—
162284 1999 VU_{77}	14.2	X	224.70710	350.45950	35.34843	7.87971	0.2939082	0.12394965	3.9838763	20	5 10.2	20.9
162285 1999 VT_{81}	15.6	X	359.30699	227.68048	203.63932	9.25055	0.1076392	0.24443008	2.5333758	20	—	—
162286 1999 VB_{102}	16.1	X	336.61818	328.81594	69.70021	3.19413	0.0575364	0.23513725	2.5996912	20	11 20.3	19.1
162287 1999 VN_{107}	17.2	X	355.29126	152.20374	232.46068	0.79093	0.1538316	0.23612004	2.5924725	20	12 11.1	19.9
162288 1999 VW_{123}	17.0	X	344.39605	170.75992	153.87917	2.11351	0.0751581	0.22654034	2.6650520	20	8 20.9	19.9
162289 1999 VJ_{124}	16.3	X	58.84672	67.73630	234.19440	2.96663	0.1322186	0.23711824	2.5851917	20	11 17.9	19.7
162290 1999 VG_{129}	16.2	X	355.91398	347.65764	3.63490	4.61287	0.1710448	0.23499370	2.6007498	20	10 26.6	18.9
162291 1999 VP_{137}	16.4	X	292.19590	154.33228	228.68645	1.48070	0.1020891	0.22741386	2.6582231	20	8 14.8	19.6
162292 1999 VO_{142}	16.3	X	334.84961	204.79849	186.99738	3.00637	0.0664079	0.23371816	2.6102037	20	11 9.1	19.2
162293 1999 VY_{142}	17.1	X	350.48019	30.33058	333.27048	1.69458	0.1053419	0.23485836	2.6017488	20	10 27.9	20.1
162294 1999 VQ_{148}	16.0	X	20.66341	118.45859	236.32686	4.07888	0.2584087	0.23940598	2.5686960	20	12 26.9	19.3
162295 1999 VW_{149}	16.2	X	294.33528	94.81736	277.05383	1.66641	0.1221510	0.22651296	2.6652668	20	7 30.6	19.2
162296 1999 VD_{151}	16.7	X	6.52653	40.45899	359.25565	1.67690	0.1642750	0.23929911	2.5694608	20	—	—
162297 1999 VU_{167}	15.6	X	295.96377	126.71720	294.48334	2.78566	0.1722899	0.23180196	2.6245689	20	10 5.0	18.4
162298 1999 VZ_{174}	15.4	X	37.66754	58.42031	222.34938	10.87746	0.1025951	0.22845082	2.6501731	20	9 12.9	18.9
162299 1999 VW_{180}	16.6	X	209.13306	172.08005	196.53953	21.89477	0.0913264	0.35943355	1.9591017	20	4 6.1	18.9
162300 1999 VY_{180}	16.3	X	108.46011	278.46783	198.48933	21.52653	0.0959534	0.35687963	1.9684371	20	5 10.2	18.5
162301 1999 VX_{183}	16.3	X	311.48423	220.14801	215.62018	5.03199	0.2297042	0.23528452	2.5986062	20	11 28.8	18.1
162302 1999 VO_{184}	15.8	X	343.89484	347.05107	58.28188	5.84412	0.1663596	0.23818737	2.5774499	20	12 21.9	18.4
162303 1999 VW_{186}	16.9	X	128.89530	11.02403	54.84985	23.06273	0.0790017	0.35516218	1.9747778	20	4 2.0	19.6
162304 1999 VR_{193}	16.1	X	354.74472	66.46275	314.97497	3.52544	0.2881763	0.23778778	2.5803366	20	12 27.7	18.5
162305 1999 VD_{194}	15.9	X	318.96612	305.47063	139.18516	1.88660	0.0768201	0.24062337	2.5600248	20	12 27.4	18.6
162306 1999 VE_{200}	15.6	X	43.22063	262.07053	106.11694	14.17914	0.1242710	0.24122570	2.5557616	20	—	—
162307 1999 VP_{213}	15.7	X	356.89953	268.24377	102.54682	13.15457	0.2513144	0.23541879	2.5976181	20	12 10.7	18.3
162308 1999 VL_{225}	16.8	X	331.74257	263.74050	150.12787	4.74497	0.2719501	0.23622021	2.5917395	20	12 20.9	18.6
162309 1999 WK_{10}	16.7	X	9.14195	185.54983	176.69692	1.05131	0.2246060	0.23873907	2.5734775	20	12 15.1	19.6
162310 1999 WN_{13}	16.0	X	10.71877	321.65916	91.10593	5.87696	0.2611772	0.24073909	2.5592044	20	—	—
162311 1999 WM_{17}	16.3	X	52.67251	154.00096	221.35219	11.41131	0.2412523	0.24573932	2.5243696	20	—	—
162312 1999 WG_{20}	16.2	X	312.24077	149.43428	285.51682	3.59461	0.1935230	0.23607894	2.5927734	20	11 29.7	18.3
162313 1999 WA_{24}	16.5	X	26.72182	234.48352	67.34358	3.29223	0.0615290	0.22906608	2.6454255	20	9 25.7	19.8
162314 1999 XE_{7}	14.1	X	228.61957	345.18529	50.88017	9.40423	0.2695558	0.12398971	3.9830182	20	5 26.1	20.6
162315 1999 XC_{11}	16.0	X	359.11098	46.87818	17.51893	5.93574	0.2253209	0.24119324	2.5559908	20	—	—
162316 1999 XY_{14}	15.9	X	1.98672	146.89500	234.31548	12.32185	0.2863767	0.23638853	2.5905091	20	—	—
162317 1999 XB_{23}	15.7	X	339.73678	336.71777	49.58079	15.38057	0.1938491	0.23582982	2.5945990	20	11 17.5	17.9
162318 1999 XQ_{25}	15.7	X	336.77326	319.94198	71.93507	10.18502	0.2001072	0.23495898	2.6010060	20	11 21.7	17.9
162319 1999 XS_{26}	16.2	X	326.49781	187.36845	235.03199	3.15847	0.2248093	0.23694660	2.5864399	20	12 16.3	18.3
162320 1999 XN_{27}	15.9	X	303.17630	249.44355	197.24368	2.48200	0.2128403	0.23552267	2.5968542	20	11 26.3	18.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
162321 1999 XG_{30}	15.8	X	65.00019	152.21782	210.90183	5.71215	0.2729433	0.24328855	2.5412942	20	—	—
162322 1999 XZ_{42}	16.0	X	44.08782	34.01533	22.42250	2.10645	0.1795079	0.24619076	2.5212828	20	—	—
162323 1999 XA_{45}	15.8	X	357.32108	129.80114	244.20265	13.67611	0.1965770	0.23592778	2.5938807	20	12 5.9	18.5
162324 1999 XB_{50}	16.0	X	29.71861	291.59662	67.17908	13.90988	0.2580636	0.23882827	2.5728368	20	—	—
162325 1999 XC_{50}	16.5	X	310.86255	195.18201	237.13140	1.05862	0.1262510	0.23485427	2.6017790	20	11 24.9	19.2
162326 1999 XB_{52}	15.6	X	69.49956	350.37184	20.27898	1.65175	0.1052456	0.24354357	2.5395198	20	—	—
162327 1999 XA_{55}	15.5	X	356.66488	137.23683	246.59185	12.93614	0.0828764	0.23512982	2.5997459	20	12 2.9	18.6
162328 1999 XJ_{59}	15.8	X	293.69251	206.24748	260.79408	3.72680	0.1963444	0.23509054	2.6000355	20	12 6.5	18.3
162329 1999 XM_{64}	15.6	X	7.82494	295.48189	79.18349	5.38389	0.3022678	0.23727708	2.5840378	20	—	—
162330 1999 XW_{65}	16.2	X	64.19872	134.19609	227.09260	3.38335	0.2229031	0.24248955	2.5468735	20	—	—
162331 1999 XT_{66}	16.2	X	20.24206	285.89153	79.97940	5.35366	0.2498497	0.23732614	2.5836816	20	—	—
162332 1999 XK_{101}	15.5	X	8.91362	140.82990	295.22404	4.95159	0.2766660	0.24078833	2.5588555	20	—	—
162333 1999 XZ_{101}	14.9	X	48.82760	88.16091	299.56663	4.83627	0.2242746	0.24079741	2.5587911	20	—	—
162334 1999 XP_{103}	15.1	X	277.35966	119.84236	291.17727	11.81339	0.1758346	0.22467911	2.6797499	20	8 15.6	18.6
162335 1999 XN_{113}	15.5	X	325.52286	103.55597	309.36851	12.10777	0.1900013	0.23591740	2.5939568	20	11 24.2	18.1
162336 1999 XT_{118}	16.2	X	48.96059	293.52074	47.46347	6.89242	0.3078158	0.24045819	2.5611971	20	—	—
162337 1999 XK_{124}	15.3	X	324.04931	140.89180	271.82300	11.24108	0.1722769	0.23510897	2.5998996	20	11 21.2	17.8
162338 1999 XT_{129}	15.4	X	313.78343	349.76747	44.39766	15.26850	0.1413239	0.23029673	2.6359927	20	10 10.5	18.2
162339 1999 XR_{133}	15.3	X	45.83422	50.49956	301.17719	9.78663	0.2460460	0.23795127	2.5791545	20	—	—
162340 1999 XT_{134}	15.5	X	5.75168	272.87058	96.81968	15.45035	0.3393048	0.23699563	2.5860832	20	—	—
162341 1999 XV_{134}	15.4	X	297.58369	282.34768	103.60368	16.19339	0.1839542	0.22777077	2.6554455	20	8 20.5	18.5
162342 1999 XT_{138}	15.7	X	246.26006	269.46236	95.60058	6.75291	0.0978246	0.21397678	2.7683752	20	5 21.7	19.7
162343 1999 XG_{155}	16.3	X	4.99935	280.54004	101.93977	4.88318	0.2956884	0.23714715	2.5849816	20	—	—
162344 1999 XX_{159}	16.0	X	334.18067	301.28800	115.12616	5.82330	0.2995085	0.23537967	2.5979059	20	—	—
162345 1999 XT_{162}	15.5	X	138.44019	30.48635	117.27309	5.03680	0.0532732	0.21625970	2.7488581	20	7 23.4	19.3
162346 1999 XX_{167}	15.5	X	320.43749	132.77408	293.65619	6.65358	0.1904360	0.23497133	2.6009148	20	12 4.9	17.9
162347 1999 XD_{172}	15.7	X	20.61375	11.85439	25.34459	4.36420	0.2363511	0.23849160	2.5752575	20	—	—
162348 1999 XT_{187}	15.2	X	75.59948	324.27268	37.84688	10.49637	0.1618686	0.24289601	2.5440314	20	—	—
162349 1999 XH_{208}	16.5	X	341.57013	80.83926	323.35324	3.86381	0.2912617	0.23600531	2.5933125	20	—	—
162350 1999 XX_{212}	15.5	X	27.13043	278.48190	87.78459	16.02494	0.1540575	0.23816611	2.5776033	20	—	—
162351 1999 XV_{215}	15.1	X	46.03998	92.62828	303.88751	5.05836	0.2415682	0.24414351	2.5353578	20	—	—
162352 1999 XS_{226}	12.6	X	274.20402	35.82839	64.28345	2.28419	0.0748667	0.08268244	5.2182777	20	10 10.7	19.4
162353 1999 YX	16.2	X	356.69801	278.40425	142.90146	5.82564	0.3234788	0.24032086	2.5621728	20	—	—
162354 1999 YQ_{5}	15.5	X	296.17852	65.04774	343.30728	26.24242	0.3113891	0.22935531	2.6432010	20	8 29.1	18.0
162355 1999 YW_{5}	15.1	X	297.06126	112.54410	311.01572	29.68777	0.2575645	0.23270815	2.6177509	20	9 8.6	18.4
162356 1999 YA_{6}	15.0	X	265.97956	102.22012	322.87443	26.02158	0.2841976	0.22796905	2.6539055	20	8 8.9	18.8
162357 1999 YA_{7}	14.9	X	272.79441	73.03602	355.20673	11.17617	0.1881454	0.22709235	2.6607314	20	9 5.7	18.2
162358 1999 YT_{7}	16.0	X	2.32196	238.27330	85.19234	12.92358	0.2132524	0.23037839	2.6353698	20	10 12.4	18.8
162359 1999 YH_{22}	16.9	X	281.51764	78.56744	313.44227	1.29512	0.1893873	0.22277670	2.6949841	20	7 28.0	20.3
162360 2000 AH_{3}	15.2	X	248.15309	177.76077	286.42556	11.23389	0.1501734	0.22906607	2.6454255	20	9 18.2	19.0
162361 2000 AF_{6}	20.1	X	68.49249	200.22341	110.69919	2.69531	0.4113469	1.19850660	0.8777600	20	—	—
162362 2000 AU_{23}	15.4	X	291.39726	300.89312	88.78246	13.76286	0.1609354	0.22477716	2.6789705	20	8 19.0	18.8
162363 2000 AN_{34}	14.8	X	65.58068	345.33429	32.56448	4.71286	0.2708885	0.24121510	2.5558364	20	—	—
162364 2000 AB_{70}	16.0	X	333.17959	303.96736	109.51637	8.63141	0.1937449	0.23521948	2.5990852	20	12 15.2	18.4
162365 2000 AK_{77}	15.5	X	40.97571	259.91271	128.78454	6.42292	0.1235647	0.23970445	2.5665633	20	—	—
162366 2000 AD_{83}	15.6	X	47.50306	207.07636	170.69311	4.61412	0.2344045	0.23972285	2.5664320	20	—	—
162367 2000 AJ_{101}	15.6	X	342.12756	276.67577	137.10497	3.90541	0.2465941	0.23783697	2.5799808	20	—	—
162368 2000 AV_{101}	15.7	X	292.88571	301.84970	143.62256	6.03114	0.2189088	0.23412585	2.6071727	20	11 2.4	18.2
162369 2000 AZ_{112}	15.7	X	33.18366	222.11504	181.16108	4.78941	0.3006499	0.24127928	2.5553832	20	—	—
162370 2000 AE_{119}	16.2	X	4.50451	252.01303	181.02985	2.93090	0.1871631	0.23818572	2.5774618	20	—	—
162371 2000 AY_{145}	15.4	X	333.16158	144.46977	280.38508	4.91043	0.2647548	0.23916096	2.5704502	20	—	—
162372 2000 AG_{149}	16.4	X	7.01122	197.43736	198.64536	6.34535	0.3084728	0.23800523	2.5787647	20	—	—
162373 2000 AR_{155}	15.5	X	65.70366	1.96960	18.91951	0.69273	0.1605330	0.24339247	2.5405707	20	—	—
162374 2000 AC_{175}	15.6	X	193.46911	321.16583	180.81551	6.39993	0.2329073	0.22316203	2.6918810	20	9 6.9	20.3
162375 2000 AK_{180}	15.5	X	19.85947	173.42466	240.72393	7.40415	0.3460904	0.24103652	2.5570987	20	—	—
162376 2000 AE_{191}	15.1	X	352.47598	188.97542	216.80881	11.91844	0.1476248	0.23467935	2.6030717	20	—	—
162377 2000 AL_{196}	15.5	X	244.45061	249.41018	196.46229	6.08855	0.2038610	0.22288401	2.6941190	20	8 17.2	19.6
162378 2000 AF_{201}	15.7	X	206.80645	295.08556	148.88764	9.27847	0.1698005	0.21934909	2.7229865	20	7 11.9	20.1
162379 2000 AF_{202}	15.1	X	327.04181	162.00243	230.14110	15.29271	0.1577935	0.23102076	2.6304822	20	10 26.2	17.8
162380 2000 AW_{225}	12.7	X	13.45364	32.05347	306.10398	2.54804	0.0344318	0.08165413	5.2619972	20	9 24.7	19.5
162381 2000 AM_{226}	15.6	X	329.99959	331.12826	304.78613	3.42518	0.0232130	0.21183039	2.7870443	20	5 23.2	19.2
162382 2000 AA_{254}	15.6	X	316.15367	2.27276	302.30211	2.82406	0.0822506	0.21293321	2.7774129	20	6 5.2	19.0
162383 2000 BN_{2}	15.1	X	274.40147	83.48784	359.53937	21.88399	0.0684869	0.22724423	2.6595458	20	10 8.9	18.6
162384 2000 BC_{6}	15.2	X	351.19807	9.68170	40.96791	12.76636	0.2555414	0.23570788	2.5954937	20	—	—
162385 2000 BM_{19}	18.6	X	92.92203	247.58428	70.33824	6.88859	0.3586853	1.54672177	0.7405049	20	—	—
162386 2000 BA_{26}	15.5	X	253.57974	110.35257	322.51874	7.58831	0.1837265	0.22226714	2.6991014	20	8 15.4	19.3
162387 2000 BN_{37}	15.9	X	254.66837	201.97759	114.03090	1.07722	0.1264317	0.20628946	2.8367301	20	3 26.3	20.1
162388 2000 BK_{39}	12.4	X	354.86043	240.19435	132.72837	4.22006	0.1261866	0.08224430	5.2367942	20	10 15.7	18.7
162389 2000 CE_{4}	16.4	X	257.43312	198.45541	261.38164	1.88630	0.2601989	0.22766018	2.6563054	20	9 13.2	20.0
162390 2000 CD_{13}	15.6	X	246.92859	157.98677	260.22679	2.99437	0.1519774	0.21951515	2.7216131	20	7 22.7	19.4
162391 2000 CZ_{43}	15.5	X	232.82234	172.49474	298.70457	8.28234	0.1832345	0.22273685	2.6953055	20	9 6.8	19.7
162392 2000 CG_{45}	15.7	X	222.57455	266.28321	170.56161	8.84019	0.2381335	0.21755564	2.7379309	20	7 12.1	20.3
162393 2000 CM_{81}	15.2	X	154.70008	280.51824	326.13951	23.56412	0.3152154	0.17512659	3.1639867	20	11 29.6	21.4
162394 2000 CW_{95}	15.7	X	41.04348	99.86220	133.04254	5.35774	0.0264988	0.21310265	2.7759405	20	7 5.6	19.4
162395 2000 CY_{108}	16.0	X	230.71068	36.38713	348.27432	1.13991	0.0931537	0.21138295	2.7909759	20	5 28.1	20.1
162396 2000 CV_{120}	12.8	X	319.65471	304.48879	110.04329	3.12560	0.0474870	0.08222912	5.2374386	20	10 17.3	19.6
162397 2000 CC_{135}	15.6	X	223.59018	2.28484	322.21885	17.03903	0.1361164	0.20039053	2.8921308	20	3 1.0	20.4
162398 2000 DP_{7}	15.7	X	194.91862	270.37967	152.46989	13.48704	0.1568531	0.21173977	2.7878394	20	6 7.3	20.5
162399 2000 DN_{10}	15.7	X	196.80397	120.42966	325.20954	11.75256	0.1271504	0.21411822	2.7671559	20	7 8.9	20.2
162400 2000 DR_{22}	15.2	X	329.41782	229.56118	149.21784	13.13295	0.2815608	0.22604237	2.6689646	20	10 16.8	17.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
162401 2000 DK_{33}	15.8	X	88.13414	316.92894	174.27423	2.61157	0.1403608	0.20421921	2.8558692	20	5 12.8	19.6
162402 2000 DZ_{38}	16.1	X	336.46873	224.00939	193.94335	2.67336	0.3520086	0.23275067	2.6174321	20	—	—
162403 2000 DA_{41}	15.8	X	149.54673	157.43227	334.62835	4.76876	0.2289421	0.21225142	2.7833574	20	7 22.9	20.5
162404 2000 DP_{60}	14.7	X	245.40322	66.92306	155.51891	12.40391	0.1439260	0.18517988	3.0484109	20	—	—
162405 2000 DH_{78}	15.6	X	188.24587	135.76210	337.29058	9.23932	0.1010785	0.21360463	2.7715898	20	8 5.2	19.8
162406 2000 DV_{93}	15.3	X	184.73119	115.04970	342.23810	12.24710	0.1201319	0.21366967	2.7710273	20	7 12.6	19.8
162407 2000 DF_{94}	15.8	X	59.64181	183.47293	341.98807	14.04007	0.0922598	0.20441765	2.8540208	20	5 4.4	19.8
162408 2000 DM_{94}	15.4	X	256.13691	54.18915	348.92601	10.73808	0.1098636	0.21629730	2.7485395	20	7 23.4	19.3
162409 2000 DK_{102}	16.0	X	336.18508	17.09940	71.47615	4.65955	0.2648460	0.23416956	2.6068483	20	—	—
162410 2000 DE_{104}	14.8	X	177.66230	112.87816	122.71262	6.83250	0.1290124	0.17760613	3.1344697	20	12 13.5	19.8
162411 2000 DM_{111}	15.5	X	39.67052	317.92590	201.78042	1.35493	0.0120474	0.20033584	2.8926570	20	3 27.4	19.4
162412 2000 DF_{113}	15.4	X	267.50553	228.06846	147.65648	10.17584	0.2499264	0.21631411	2.7483971	20	6 9.6	19.7
162413 2000 EK_{2}	15.4	X	208.15785	100.03990	168.58694	9.79663	0.0925293	0.18694872	3.0291519	20	—	—
162414 2000 EL_{2}	16.2	X	188.20131	235.20489	208.20905	1.24344	0.1982471	0.21211354	2.7845635	20	6 23.8	20.8
162415 2000 EY_{2}	15.1	X	254.40478	207.93691	171.63765	8.11434	0.2184759	0.21160447	2.7890277	20	6 4.1	19.5
162416 2000 EH_{26}	21.7	X	339.49211	19.13607	215.22768	0.39873	0.4783528	0.39045882	1.8538982	20	1 4.9	23.8
162417 2000 EA_{30}	14.6	X	151.62989	82.67262	147.81857	23.26239	0.2092524	0.17347096	3.1840866	20	11 18.9	20.4
162418 2000 ER_{46}	15.4	X	55.50199	332.31413	179.49637	1.79609	0.0765647	0.19854461	2.9100290	20	4 15.1	19.0
162419 2000 EA_{67}	15.4	X	309.62691	129.31473	27.41165	1.26347	0.0972245	0.18510517	3.0492311	20	—	—
162420 2000 EU_{69}	15.4	X	271.21809	22.98584	185.63178	6.73303	0.1336365	0.18494202	3.0510242	20	—	—
162421 2000 ET_{70}	18.0	X	119.42199	46.10167	331.14380	22.32347	0.1237346	1.07005838	0.9466681	20	—	—
162422 2000 EV_{70}	20.6	X	132.02732	314.52728	108.92878	1.39912	0.5311564	0.74297679	1.2073112	20	4 23.9	20.8
162423 2000 EK_{88}	15.0	X	300.87323	308.46562	267.40268	9.00677	0.0492713	0.19319176	2.9635367	20	1 25.7	19.2
162424 2000 EE_{113}	15.3	X	185.67170	315.05886	342.07563	7.97959	0.2392525	0.18547245	3.0452044	20	1 5.6	20.7
162425 2000 EF_{136}	15.5	X	144.16023	346.92279	18.68639	4.21498	0.0223395	0.19022418	2.9942789	20	1 30.7	19.8
162426 2000 EP_{143}	15.3	X	210.09175	94.71537	160.27370	11.27923	0.1130434	0.18484281	3.0521158	20	—	—
162427 2000 EH_{162}	15.6	X	285.07800	50.07119	166.08323	13.14011	0.0254285	0.19068370	2.9894664	20	1 11.8	20.1
162428 2000 EP_{162}	15.6	X	215.96277	289.65157	341.37751	10.25361	0.0919211	0.18742883	3.0239767	20	—	—
162429 2000 EM_{165}	15.5	X	137.38340	37.02981	356.95128	13.34817	0.0209661	0.19490202	2.9461746	20	2 27.1	19.7
162430 2000 EQ_{193}	16.1	X	226.83453	299.97043	284.35023	0.83704	0.1687422	0.18172965	3.0868736	20	—	—
162431 2000 FV_{4}	14.6	X	164.04129	221.90932	192.48765	17.01213	0.1049590	0.20013144	2.8946263	20	4 27.3	19.1
162432 2000 FR_{5}	15.4	X	72.28667	190.55396	233.73358	0.71195	0.0715525	0.18843110	3.0132441	20	1 18.6	19.4
162433 2000 FK_{10}	19.2	X	211.24252	246.98218	41.67975	13.94074	0.4815701	0.62206052	1.3590881	20	—	—
162434 2000 FA_{34}	15.2	X	200.46523	54.80367	178.47476	17.30824	0.1801329	0.17779164	3.1322890	20	12 26.9	20.5
162435 2000 FO_{52}	15.9	X	151.64652	271.31489	27.33196	1.75377	0.1775175	0.17809686	3.1287092	20	—	—
162436 2000 FX_{52}	15.8	X	276.16396	340.40777	323.36842	4.34655	0.0931430	0.20287262	2.8684928	20	4 6.5	19.9
162437 2000 FH_{59}	14.9	X	212.56378	331.36980	109.40737	10.40854	0.3387520	0.21445910	2.7642230	20	7 3.9	19.9
162438 2000 GF_{3}	16.7	X	21.70846	294.65698	21.17152	6.56427	0.2848330	0.30837837	2.1697687	20	11 26.7	19.3
162439 2000 GD_{5}	15.3	X	227.44996	61.37844	158.76272	17.31946	0.1722104	0.18114616	3.0934989	20	—	—
162440 2000 GR_{8}	15.8	X	191.95622	268.83767	172.25356	7.57034	0.2024376	0.21117444	2.7928127	20	6 23.9	20.6
162441 2000 GO_{23}	14.8	X	176.67248	265.71719	18.15107	15.92603	0.2058830	0.17897119	3.1185111	20	—	—
162442 2000 GU_{39}	15.2	X	56.62320	5.91179	24.70535	2.65242	0.0500136	0.18041379	3.1018651	20	—	—
162443 2000 GF_{40}	17.2	X	39.29327	247.92302	30.87752	1.97129	0.1993829	0.30674304	2.1774736	20	10 16.8	19.7
162444 2000 GP_{63}	15.5	X	0.73349	103.11710	43.14276	5.23430	0.0434651	0.18804456	3.0173721	20	1 22.5	19.5
162445 2000 GV_{63}	15.0	X	99.19211	335.29955	27.50210	10.29767	0.1043340	0.18040651	3.1019485	20	—	—
162446 2000 GT_{83}	15.3	X	274.09082	28.22302	146.67777	8.90133	0.1649752	0.18311673	3.0712656	20	—	—
162447 2000 GJ_{118}	16.0	X	277.32588	310.43294	305.84332	1.04501	0.0570169	0.19648666	2.9303129	20	2 16.1	20.1
162448 2000 GW_{152}	14.8	X	238.83253	240.18045	4.15139	16.16417	0.1703954	0.18308752	3.0715922	20	—	—
162449 2000 GC_{156}	15.0	X	157.80061	288.18468	2.66127	11.80329	0.2024008	0.17687421	3.1431109	20	—	—
162450 2000 GA_{159}	14.6	X	197.07298	243.99123	11.88190	16.45792	0.0489488	0.18032699	3.1028603	20	—	—
162451 2000 GB_{180}	15.2	X	230.35980	242.84281	27.29543	11.86574	0.1106123	0.18553715	3.0444964	20	1 12.8	20.1
162452 2000 HO_{14}	18.3	X	301.17756	53.85742	217.43524	5.46096	0.4476238	0.28978135	2.2616345	20	2 1.3	22.0
162453 2000 HU_{17}	15.0	X	86.31761	117.61420	222.05003	11.12374	0.0613405	0.17436684	3.1731708	20	—	—
162454 2000 HO_{24}	14.5	X	246.03043	167.22119	38.42624	16.88848	0.0425370	0.17841213	3.1250223	20	—	—
162455 2000 HL_{28}	14.5	X	237.41731	67.97221	160.61334	27.09129	0.1443019	0.18077455	3.0977369	20	—	—
162456 2000 HA_{35}	14.8	X	269.26076	44.71397	155.07220	10.42822	0.1229821	0.18306861	3.0718037	20	—	—
162457 2000 HO_{35}	14.8	X	177.06756	109.25326	175.49432	16.21191	0.2152847	0.17770172	3.1333456	20	—	—
162458 2000 HK_{48}	17.5	X	38.56832	315.33299	284.67649	0.74836	0.1917490	0.30130419	2.2035992	20	8 15.4	19.5
162459 2000 HO_{50}	16.2	X	353.96155	124.20857	210.96185	6.11660	0.2302291	0.30495131	2.1859944	20	10 30.4	17.4
162460 2000 HX_{69}	14.8	X	177.27927	241.83047	8.07053	9.11894	0.0665059	0.17613657	3.1518801	20	—	—
162461 2000 HS_{94}	17.1	X	333.01876	77.59818	222.60508	4.48964	0.1942671	0.29767151	2.2214909	20	6 20.0	18.4
162462 2000 HV_{103}	14.9	X	172.72228	175.94390	152.17765	10.78694	0.0646248	0.18576833	3.0419701	20	1 20.1	19.6
162463 2000 JH_{5}	17.7	X	265.99427	353.49572	80.20346	22.21563	0.2382006	0.80375668	1.1456527	20	—	—
162464 2000 JR_{60}	14.4	X	239.95879	161.18503	49.41329	20.91128	0.0709662	0.17729745	3.1381069	20	—	—
162465 2000 JU_{81}	17.2	X	11.36085	265.43464	46.98468	3.93376	0.1749912	0.30709221	2.1758227	20	10 19.4	18.9
162466 Margon	15.3	X	252.56623	122.18827	158.31510	0.95468	0.0886999	0.19233567	2.9723240	20	2 14.6	19.7
162467 2000 KJ_{20}	17.0	X	316.60491	196.27217	77.13991	2.63970	0.2257787	0.29219990	2.2491375	20	3 27.2	19.2
162468 2000 KW_{23}	13.9	X	152.75465	101.29312	238.50766	14.97229	0.2468579	0.17822911	3.1271614	20	1 24.3	19.4
162469 2000 KK_{40}	15.0	X	82.73661	309.09037	58.50676	8.23403	0.2632590	0.17458331	3.1705473	20	—	—
162470 2000 KX_{43}	19.3	X	79.39568	31.76128	83.75993	35.27599	0.5530279	0.83976846	1.1126614	20	6 10.8	18.4
162471 2000 KK_{60}	14.6	X	185.62734	54.35336	228.69439	26.05654	0.1004538	0.17779402	3.1322610	20	—	—
162472 2000 LL	19.1	X	10.25021	66.83756	245.65508	31.85817	0.1183295	0.69792658	1.2587212	20	—	—
162473 2000 LA_{16}	17.3	X	308.67282	182.42021	150.94263	5.69508	0.2970584	0.29666687	2.2265033	20	5 31.9	19.2
162474 2000 LB_{16}	18.4	X	102.38517	285.26178	80.86308	50.71161	0.3574130	0.71304382	1.2408670	20	—	—
162475 2000 MV_{4}	16.3	X	245.46697	244.15128	88.58510	4.83796	0.2361907	0.28481977	2.2878241	20	3 25.8	20.0
162476 2000 NC_{21}	16.0	X	303.83646	136.61554	138.91898	6.67729	0.1676363	0.28654411	2.2786365	20	3 22.3	18.6
162477 2000 NV_{28}	16.4	X	265.05568	67.77378	289.25313	7.23558	0.1563166	0.29045110	2.2581565	20	5 22.7	19.3
162478 2000 OT_{9}	16.9	X	308.94544	110.36027	198.03921	2.53512	0.2148200	0.29065105	2.2571207	20	5 7.7	19.1
162479 2000 OH_{31}	16.2	X	268.20193	104.87547	225.41050	4.56602	0.2207002	0.28713302	2.2755198	20	4 11.2	19.3
162480 2000 OL_{36}	16.6	X	241.27359	190.16630	154.51618	6.83250	0.1370704	0.28558803	2.2837192	20	4 13.6	19.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
162481 2000 OM_{56}	17.2	X	263.74945	298.90447	5.46221	5.08642	0.2223208	0.28405599	2.2919233	20	3 6.1	20.6
162482 2000 ON_{59}	16.9	X	9.20766	103.41731	226.79661	0.59304	0.1196038	0.30095032	2.2053262	20	10 30.9	18.9
162483 2000 PJ_{5}	17.4	X	247.90919	7.63799	124.41803	51.18366	0.3736571	1.20898078	0.8726829	20	—	—
162484 2000 PD_{10}	16.0	X	310.21503	292.19666	22.85902	7.11798	0.1420398	0.28992132	2.2609066	20	6 1.1	18.2
162485 2000 PA_{14}	16.3	X	72.51611	264.69578	293.67426	7.80247	0.1164957	0.29521525	2.2337961	20	7 21.9	18.7
162486 2000 PN_{14}	16.6	X	298.09387	16.82362	291.50408	6.45968	0.1229977	0.28992528	2.2608860	20	5 2.9	19.2
162487 2000 PF_{15}	16.6	X	252.35860	39.71345	318.99654	7.04730	0.1309597	0.28885609	2.2664616	20	5 11.1	19.7
162488 2000 PV_{19}	16.6	X	221.54518	354.65068	26.13897	6.14799	0.1375413	0.28556158	2.2838603	20	5 7.3	20.0
162489 2000 PX_{19}	16.4	X	256.57388	30.30596	339.07415	7.42489	0.1639474	0.28863328	2.2676279	20	5 27.8	19.6
162490 2000 PA_{21}	16.2	X	250.92241	98.14810	301.48975	6.25515	0.0725385	0.29402919	2.2397992	20	7 19.6	18.9
162491 2000 PV_{23}	16.2	X	247.76766	194.18702	133.04372	10.37299	0.2601727	0.28325414	2.2962467	20	3 20.0	20.1
162492 2000 QA_{2}	15.9	X	123.02576	289.87452	161.38413	26.11034	0.2538045	0.27767790	2.3268863	20	5 16.9	20.1
162493 2000 QY_{7}	16.0	X	258.71662	67.95783	303.52821	3.89600	0.1861564	0.28820356	2.2698813	20	5 31.6	18.9
162494 2000 QA_{8}	16.3	X	222.37053	49.95627	320.49646	3.39051	0.1188597	0.28343579	2.2952655	20	4 25.0	19.6
162495 2000 QV_{17}	17.4	X	264.16109	150.21655	141.15461	6.10722	0.1690032	0.28207678	2.3026318	20	2 23.6	20.6
162496 2000 QH_{26}	16.0	X	146.82297	21.91964	1.02221	6.64255	0.1383409	0.27107924	2.3644958	20	2 27.4	19.3
162497 2000 QW_{26}	15.9	X	199.56917	111.31266	312.04399	5.10677	0.1515750	0.28714185	2.2754732	20	6 10.9	19.3
162498 2000 QH_{32}	16.6	X	254.78308	287.01351	23.45320	5.94338	0.1725198	0.28235405	2.3011241	20	3 10.7	20.1
162499 2000 QZ_{33}	16.4	X	268.42436	83.96902	237.26104	5.66467	0.1623935	0.28545784	2.2844136	20	4 5.5	19.6
162500 2000 QE_{38}	16.4	X	2.01395	298.95586	332.00001	4.52383	0.1526783	0.29347219	2.2426324	20	7 14.4	18.0
162501 2000 QH_{38}	17.4	X	231.92634	343.56373	343.03618	1.81673	0.1606225	0.28139342	2.3063582	20	3 7.8	20.9
162502 2000 QL_{38}	16.2	X	6.47814	124.83807	143.83960	5.17088	0.0887623	0.29296109	2.2452399	20	7 13.6	18.2
162503 2000 QF_{41}	16.3	X	333.98236	309.43767	313.63009	5.83214	0.0862269	0.28751252	2.2735170	20	4 30.2	18.8
162504 2000 QM_{43}	16.1	X	330.86467	325.67859	324.17807	6.56853	0.1286527	0.29052338	2.2577819	20	6 3.4	18.2
162505 2000 QP_{48}	16.3	X	307.32150	164.95636	156.02330	7.12083	0.1454577	0.29045265	2.2581484	20	6 7.4	18.6
162506 2000 QC_{49}	16.7	X	278.61556	244.61341	148.17070	2.00210	0.2110176	0.29311137	2.2444724	20	7 26.8	19.0
162507 2000 QE_{60}	16.4	X	179.44435	252.51232	130.23074	9.99341	0.0854914	0.28023814	2.3126925	20	3 31.7	19.8
162508 2000 QA_{65}	16.0	X	136.32135	329.67508	88.16391	7.72478	0.1762893	0.27550908	2.3390819	20	4 7.5	19.5
162509 2000 QV_{66}	16.8	X	232.99232	281.00775	34.80728	3.45715	0.1877091	0.27918928	2.3184811	20	2 24.8	20.4
162510 2000 QW_{69}	17.5	X	194.55979	220.69749	344.34765	38.14999	0.3021740	0.61056161	1.3760991	20	—	—
162511 2000 QP_{73}	16.8	X	164.01347	32.26963	333.16981	3.26127	0.1532237	0.27493916	2.3423133	20	2 22.2	20.1
162512 2000 QT_{80}	16.1	X	356.08367	88.97367	171.67874	4.56996	0.1789629	0.28946459	2.2632842	20	6 10.4	17.5
162513 2000 QQ_{86}	16.3	X	208.84073	94.57456	294.50058	6.57183	0.0969047	0.28449961	2.2895402	20	5 5.6	19.6
162514 2000 QR_{97}	16.5	X	207.70586	335.13007	36.25962	2.79597	0.1890325	0.28063028	2.3105376	20	4 10.9	20.3
162515 2000 QK_{99}	16.0	X	173.00705	262.82421	161.15812	11.81149	0.1595565	0.28117746	2.3075390	20	5 19.6	19.8
162516 2000 QX_{106}	16.4	X	356.07602	8.56979	239.17064	6.07232	0.1168627	0.28859711	2.2678173	20	5 19.2	18.3
162517 2000 QA_{107}	15.2	X	222.78299	153.68408	181.43431	10.28210	0.1011911	0.18054116	3.1004059	20	3 20.1	20.0
162518 2000 QR_{108}	16.5	X	235.73618	296.39933	19.76401	6.76135	0.1439351	0.27978429	2.3151928	20	3 1.8	20.1
162519 2000 QX_{113}	16.9	X	186.03768	10.70337	340.73831	2.65623	0.1948803	0.27593270	2.3366873	20	2 27.2	20.7
162520 2000 QR_{119}	16.3	X	274.82647	25.63192	289.98226	6.16657	0.1362879	0.28394467	2.2925223	20	4 7.6	19.5
162521 2000 QA_{121}	16.1	X	127.82479	147.44171	298.94674	6.47888	0.0652607	0.27882931	2.3204761	20	4 15.2	19.2
162522 2000 QR_{122}	16.5	X	215.76120	37.90488	335.04627	7.79639	0.2228493	0.28110538	2.3079334	20	4 15.0	20.4
162523 2000 QQ_{125}	16.4	X	185.49793	74.45757	304.97047	5.78347	0.1299485	0.27902642	2.3193832	20	3 27.9	20.0
162524 2000 QT_{125}	16.3	X	194.43423	23.99959	310.87841	6.44923	0.1398604	0.27542881	2.3395364	20	2 11.9	19.7
162525 2000 QK_{127}	16.2	X	187.93003	34.17666	351.75320	2.84068	0.2679524	0.27766509	2.3269579	20	4 11.6	20.1
162526 2000 QV_{131}	16.4	X	207.61539	35.23911	336.64496	6.35596	0.2024129	0.27954290	2.3165254	20	4 8.3	20.3
162527 2000 QO_{134}	16.4	X	228.76637	45.72491	356.06145	4.07029	0.1907100	0.28830041	2.2693730	20	6 8.6	19.9
162528 2000 QT_{134}	16.3	X	276.17390	42.84074	358.05049	6.70669	0.1454434	0.29531321	2.2333020	20	8 19.5	18.5
162529 2000 QE_{141}	16.9	X	244.90278	180.67551	132.21365	3.21690	0.1798535	0.27943674	2.3171121	20	3 2.6	20.3
162530 2000 QV_{141}	15.9	X	304.12026	282.16050	11.60842	7.77277	0.2423127	0.28630248	2.2799185	20	4 2.7	18.3
162531 2000 QW_{142}	15.7	X	216.89819	338.23538	23.25881	7.02707	0.1433734	0.28022648	2.3127566	20	4 8.3	19.2
162532 2000 QC_{146}	16.3	X	218.31364	321.00187	36.73717	5.97602	0.1687641	0.28037487	2.3119405	20	4 4.8	19.8
162533 2000 QW_{146}	16.3	X	253.23864	281.53290	13.07921	5.07647	0.1310864	0.27853801	2.3220937	20	2 21.4	19.6
162534 2000 QR_{157}	16.3	X	200.34944	175.83519	205.22600	7.01226	0.2321799	0.28130880	2.3068207	20	4 15.8	20.1
162535 2000 QN_{158}	16.4	X	247.91279	145.22434	263.65344	6.96217	0.0900287	0.29215295	2.2493785	20	7 24.0	19.1
162536 2000 QB_{161}	16.4	X	317.70989	63.49228	244.07454	7.37000	0.1357545	0.29143822	2.2530546	20	6 6.1	18.4
162537 2000 QP_{164}	16.1	X	144.35883	161.19530	271.76825	5.09542	0.1493770	0.28022424	2.3127690	20	4 27.3	19.6
162538 2000 QQ_{164}	16.4	X	243.54459	141.34077	246.33067	4.79679	0.1712924	0.28807210	2.2705719	20	6 7.9	19.6
162539 2000 QA_{166}	16.4	X	275.74509	18.53325	298.75757	6.71305	0.0807179	0.28491333	2.2873232	20	4 19.5	19.5
162540 2000 QZ_{167}	15.6	X	108.40668	180.01733	259.36048	4.37765	0.1247955	0.27591741	2.3367737	20	3 21.0	18.7
162541 2000 QY_{170}	16.8	X	220.45516	122.22585	222.36597	4.25641	0.1579374	0.28009638	2.3134728	20	3 18.5	20.4
162542 2000 QX_{174}	16.9	X	204.18323	147.98075	188.38028	6.80660	0.1488371	0.27750814	2.3278352	20	2 22.1	20.5
162543 2000 QC_{177}	17.1	X	309.44867	117.54876	210.19075	2.69510	0.1292025	0.29104473	2.2550848	20	6 23.9	19.1
162544 2000 QF_{187}	16.3	X	322.21738	224.62806	52.80310	5.86991	0.1568350	0.28834950	2.2691154	20	4 24.8	18.3
162545 2000 QR_{205}	16.6	X	227.16243	190.63129	161.49203	5.09082	0.1252940	0.28145877	2.3060012	20	4 8.5	20.0
162546 2000 QM_{207}	16.1	X	83.33817	122.78306	303.66773	1.51729	0.1835752	0.26870182	2.3784223	20	2 7.9	18.5
162547 2000 QR_{208}	16.3	X	245.07303	339.32595	14.93576	6.50883	0.1656609	0.28348631	2.2949928	20	4 24.3	19.6
162548 2000 QH_{212}	17.1	X	243.61959	300.58402	4.25594	2.60934	0.2144984	0.28003683	2.3138007	20	2 18.4	20.9
162549 2000 QT_{213}	16.6	X	128.68647	59.33945	358.69352	4.65233	0.2141405	0.27441459	2.3452974	20	3 30.2	20.1
162550 2000 QF_{217}	16.8	X	286.58767	213.95757	82.98914	3.29187	0.1660873	0.28395565	2.2924632	20	3 28.9	19.7
162551 2000 QS_{226}	15.9	X	212.83724	253.78300	170.66897	23.07236	0.3201881	0.28718029	2.2752701	20	6 17.6	20.5
162552 2000 QC_{251}	15.8	X	242.46940	265.02613	88.72341	9.62415	0.2026069	0.28500170	2.2868504	20	4 23.2	19.4
162553 2000 RH_{12}	16.0	X	61.73452	208.50991	285.16237	6.12560	0.1040663	0.27653745	2.3332794	20	3 22.9	18.5
162554 2000 RK_{13}	16.0	X	172.52910	86.91788	325.13196	6.40352	0.0947908	0.28076279	2.3098105	20	4 25.2	19.4
162555 2000 RZ_{14}	16.4	X	168.52403	190.20613	231.17062	7.07117	0.2247139	0.28049024	2.3113065	20	5 10.6	20.3
162556 2000 RW_{16}	16.1	X	247.77048	77.69176	267.62719	5.64446	0.1356242	0.28393321	2.2925840	20	4 17.2	19.4
162557 2000 RP_{20}	15.7	X	243.12745	106.45423	228.70090	5.72863	0.1206620	0.28185833	2.3038213	20	3 31.5	19.1
162558 2000 RF_{21}	16.5	X	151.80625	150.15937	254.58076	5.24018	0.1822288	0.27614997	2.3354615	20	3 30.9	20.2
162559 2000 RY_{21}	16.2	X	273.32792	56.81980	230.34394	5.09302	0.1603512	0.28066720	2.3103349	20	2 25.9	19.5
162560 2000 RJ_{23}	16.4	X	221.09733	174.25562	228.88031	4.32508	0.1712904	0.28502454	2.2867282	20	6 4.9	19.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
162561 2000 RT_{24}	16.3	X	267.46783	10.43319	291.86174	5.01170	0.1079204	0.28159439	2.3052607	20	3 16.1	19.4
162562 2000 RA_{27}	17.0	X	178.33111	105.89617	268.58154	4.94345	0.2829828	0.27642277	2.3339247	20	3 20.2	21.3
162563 2000 RU_{27}	15.7	X	255.85795	26.40184	308.40485	11.90795	0.0417934	0.28344091	2.2952378	20	4 20.2	19.0
162564 2000 RO_{31}	15.9	X	315.06596	97.56877	229.38867	4.05102	0.2303434	0.29091689	2.2557454	20	6 16.6	17.6
162565 2000 RU_{31}	16.0	X	99.97228	115.80956	295.14386	4.83371	0.1599908	0.26899586	2.3766888	20	2 7.4	18.8
162566 2000 RJ_{34}	15.7	X	171.09379	144.28702	330.46668	14.01308	0.5755314	0.22993036	2.6387921	20	7 20.7	21.6
162567 2000 RW_{37}	19.9	X	320.38329	133.27574	333.30830	13.74796	0.2502671	0.70731927	1.2475531	20	—	—
162568 2000 RF_{38}	16.9	X	169.37196	196.25523	159.09431	2.81920	0.1753786	0.27279594	2.3545655	20	2 16.2	20.5
162569 2000 RT_{41}	16.2	X	220.32549	46.36849	300.26526	5.77531	0.1630341	0.27891646	2.3199927	20	3 19.5	20.0
162570 2000 RA_{45}	15.8	X	132.91645	31.60672	340.33391	7.95217	0.1284743	0.26850034	2.3796120	20	1 27.7	19.0
162571 2000 RE_{59}	16.9	X	280.40859	346.97357	306.52736	2.00856	0.1841541	0.28136458	2.3065158	20	3 11.8	20.2
162572 2000 RT_{60}	16.1	X	236.01120	72.07905	273.42748	5.08213	0.2143419	0.28266426	2.2994402	20	3 29.8	19.9
162573 2000 RT_{63}	17.0	X	222.80971	102.41214	243.61044	3.59208	0.1803504	0.28042584	2.3116604	20	3 21.5	20.8
162574 2000 RT_{65}	16.7	X	198.93358	263.20317	133.86688	3.15397	0.2293888	0.28002012	2.3138928	20	5 6.1	20.6
162575 2000 RY_{77}	16.9	X	270.56299	98.18336	207.51027	3.05324	0.2319091	0.28350757	2.2948780	20	3 11.5	20.5
162576 2000 RR_{87}	16.3	X	113.68716	228.64168	195.35195	4.46283	0.1412628	0.27339086	2.3511485	20	3 11.2	19.4
162577 2000 RR_{90}	16.1	X	172.29332	102.04044	268.70398	5.22808	0.1258964	0.27492879	2.3423722	20	3 3.7	19.6
162578 2000 RJ_{92}	16.1	X	125.52713	88.23004	306.76424	3.81931	0.1659827	0.27012373	2.3700684	20	2 20.1	19.4
162579 2000 SE_{5}	15.8	X	212.96253	343.76558	31.65259	21.64288	0.1669822	0.28173394	2.3044994	20	4 21.3	19.1
162580 2000 SU_{6}	16.4	X	322.78199	347.94218	300.75701	5.93431	0.1168911	0.28936947	2.2637801	20	5 17.2	18.7
162581 2000 SA_{10}	18.6	X	7.11419	248.19315	200.34631	15.88924	0.3519426	0.45787016	1.6671493	20	—	—
162582 2000 SH_{12}	15.9	X	328.73897	33.48219	355.26388	5.62042	0.1470025	0.30183810	2.2009999	20	11 16.3	17.7
162583 2000 SD_{14}	16.0	X	312.18163	14.91961	243.11729	9.67798	0.1692354	0.28444817	2.2898162	20	3 1.8	19.1
162584 2000 SS_{29}	17.3	X	174.70946	344.56932	36.45272	2.82920	0.2185372	0.27680485	2.3317765	20	3 26.7	21.1
162585 2000 SN_{30}	16.8	X	167.23740	55.71523	0.63448	3.29205	0.1499281	0.28002090	2.3138885	20	4 29.5	20.4
162586 2000 SE_{31}	16.1	X	190.78869	255.10910	169.48457	6.32258	0.1683776	0.28374580	2.2935934	20	6 4.5	19.7
162587 2000 SE_{34}	16.5	X	62.97582	292.50771	142.23930	3.53248	0.1430261	0.26701345	2.3884379	20	1 8.4	18.7
162588 2000 ST_{34}	16.6	X	156.23613	31.47199	12.71289	3.36177	0.1600094	0.27683164	2.3316260	20	4 4.3	20.0
162589 2000 SH_{35}	16.5	X	138.43542	28.41746	44.34243	2.53774	0.1945899	0.27705967	2.3303465	20	4 26.8	20.0
162590 2000 SY_{38}	17.3	X	245.98295	164.62180	160.20219	6.17739	0.2703539	0.28126742	2.3070470	20	3 12.4	21.0
162591 2000 SF_{40}	16.8	X	245.44741	294.66711	53.14692	6.27007	0.1961916	0.28255033	2.3000583	20	4 16.3	20.2
162592 2000 SO_{43}	16.2	X	234.76979	187.57004	152.44390	6.83974	0.1598295	0.27903262	2.3193488	20	3 29.9	19.7
162593 2000 SY_{47}	15.9	X	208.02807	157.27369	213.92442	7.23888	0.2027357	0.28122052	2.3073034	20	4 9.5	19.7
162594 2000 SE_{61}	16.7	X	178.66608	261.64997	115.94759	2.66409	0.2235702	0.27634659	2.3343536	20	3 26.4	20.5
162595 2000 SX_{62}	16.3	X	258.80468	70.85188	201.46224	5.16183	0.1968209	0.27667879	2.3324847	20	1 22.1	19.9
162596 2000 SG_{64}	17.1	X	225.07912	319.29310	4.99275	2.23767	0.2017982	0.27795166	2.3253582	20	2 27.1	20.9
162597 2000 SJ_{66}	16.5	X	126.16664	246.78335	184.57767	5.84451	0.1415514	0.27516817	2.3410135	20	4 6.7	19.6
162598 2000 SP_{67}	17.2	X	180.92243	211.39473	164.79959	2.29771	0.1420615	0.27664259	2.3326882	20	3 23.1	20.5
162599 2000 SR_{68}	17.0	X	213.09303	296.37888	17.65074	5.37216	0.1657376	0.27454086	2.3445782	20	2 6.5	20.7
162600 2000 SV_{71}	16.1	X	130.63355	358.45938	19.47441	6.53158	0.1267479	0.26948219	2.3738285	20	2 1.9	19.3
162601 2000 SB_{72}	16.3	X	174.13862	212.31261	157.73506	6.72960	0.1431009	0.27445686	2.3450565	20	3 9.0	19.8
162602 2000 SD_{73}	16.6	X	168.90521	260.48416	105.77466	2.66795	0.1526883	0.27325547	2.3519250	20	2 29.2	20.2
162603 2000 SJ_{74}	16.5	X	200.22385	282.11084	136.55180	5.49345	0.2011089	0.28245026	2.3006015	20	6 4.5	20.2
162604 2000 SM_{74}	16.4	X	269.38086	230.87041	72.16611	6.37052	0.2235232	0.28130756	2.3068275	20	3 12.4	19.9
162605 2000 ST_{74}	17.2	X	204.28087	202.21764	154.83448	3.63473	0.2395699	0.27761989	2.3272105	20	3 21.0	21.2
162606 2000 SR_{77}	16.7	X	149.56069	234.72070	182.25545	6.55652	0.0889630	0.27778347	2.3262968	20	4 9.1	19.9
162607 2000 SV_{80}	17.0	X	203.66306	257.32845	149.49261	0.96197	0.1918954	0.28261146	2.2997266	20	5 22.8	20.5
162608 2000 SD_{90}	15.8	X	252.30532	84.14086	238.62307	11.00197	0.1420664	0.28277917	2.2988172	20	3 20.3	19.4
162609 2000 SH_{93}	16.3	X	232.76990	132.88228	219.56176	9.02592	0.2550549	0.28238545	2.3009535	20	4 3.6	20.1
162610 2000 SF_{98}	16.7	X	256.73710	9.97341	288.11938	2.14507	0.2253510	0.28005668	2.3136914	20	2 19.3	20.5
162611 2000 SN_{99}	16.3	X	182.71719	149.11122	229.64862	4.64256	0.1376930	0.27713064	2.3299487	20	3 26.0	19.8
162612 2000 SX_{99}	16.6	X	150.02672	122.76616	289.38057	1.77305	0.0557763	0.27679078	2.3318555	20	3 28.9	19.7
162613 2000 SE_{102}	17.1	X	225.89278	339.22003	344.17642	4.09257	0.1534520	0.27742216	2.3283161	20	2 27.9	20.7
162614 2000 SJ_{103}	16.3	X	96.09702	142.85828	303.46847	1.41688	0.1654506	0.27212727	2.3584210	20	3 22.4	18.9
162615 2000 SO_{103}	15.9	X	61.37863	141.35058	356.24364	7.78653	0.1161927	0.27511227	2.3413306	20	4 1.5	18.2
162616 2000 SU_{104}	16.7	X	179.55291	37.70625	1.85881	2.27088	0.2177675	0.27824134	2.3237440	20	4 21.5	20.4
162617 2000 SP_{107}	16.7	X	216.52540	95.97366	281.90254	0.78715	0.2129852	0.28133101	2.3066993	20	4 25.4	20.4
162618 2000 SA_{111}	16.8	X	259.66083	137.62165	168.73009	2.90840	0.1646018	0.27951873	2.3166590	20	3 9.3	20.2
162619 2000 SK_{114}	16.0	X	238.20027	284.49540	38.41415	4.84657	0.1377830	0.27794886	2.3253739	20	3 13.0	19.4
162620 2000 SP_{114}	16.6	X	157.92924	238.05321	179.75587	2.79332	0.1854971	0.27668059	2.3324746	20	4 25.9	20.2
162621 2000 SD_{118}	16.6	X	195.93289	241.93426	161.51546	2.49511	0.2098897	0.28017853	2.3130205	20	5 11.6	20.3
162622 2000 SZ_{118}	16.8	X	237.76568	294.50468	58.79940	3.26420	0.1847224	0.28125332	2.3071240	20	4 16.2	20.3
162623 2000 SH_{119}	16.2	X	270.77280	109.98032	180.88878	4.50656	0.2412238	0.27954948	2.3164891	20	2 21.4	19.6
162624 2000 SP_{121}	16.6	X	140.58768	314.85146	107.33015	3.23580	0.1894182	0.27410184	2.3470810	20	4 16.3	20.1
162625 2000 SR_{127}	15.9	X	148.49548	228.97393	184.49852	12.52388	0.1566423	0.27322287	2.3521121	20	4 9.8	19.4
162626 2000 SH_{129}	17.1	X	243.80727	68.68251	222.12391	1.59378	0.2136088	0.27716914	2.3297329	20	1 31.5	21.0
162627 2000 SR_{135}	16.1	X	61.04484	178.65510	277.86821	5.47676	0.0725057	0.27021726	2.3695215	20	1 28.2	18.7
162628 2000 SO_{138}	16.4	X	214.77011	327.45494	350.06632	8.99796	0.1413333	0.27459488	2.3442707	20	2 12.7	20.0
162629 2000 SU_{139}	16.1	X	135.68769	225.55169	247.92647	5.07544	0.0565519	0.28220236	2.3019486	20	6 5.4	19.0
162630 2000 SC_{146}	16.6	X	261.47087	71.58409	235.32307	1.52815	0.2334514	0.28054256	2.3110192	20	3 4.7	20.1
162631 2000 SN_{146}	17.0	X	169.99284	92.71262	309.89235	1.62302	0.2263271	0.27666371	2.3325695	20	4 17.5	20.9
162632 2000 SA_{147}	16.6	X	143.68662	201.14214	210.88849	3.25044	0.1450871	0.27426008	2.3461781	20	3 30.9	20.1
162633 2000 SQ_{151}	15.9	X	146.64134	33.17730	27.52576	6.95478	0.1334021	0.27533406	2.3400731	20	4 14.3	19.1
162634 2000 SH_{158}	16.6	X	166.11127	3.13020	52.51104	3.73827	0.1680547	0.27693865	2.3310254	20	4 29.7	20.3
162635 2000 SS_{164}	16.4	X	240.70875	312.06572	153.44147	7.86473	0.5139404	0.23854809	2.5748509	20	8 9.4	21.0
162636 2000 SG_{169}	15.9	X	209.97584	101.85656	255.55090	5.30752	0.1580296	0.27762895	2.3271599	20	3 23.9	19.5
162637 2000 SM_{173}	15.8	X	333.50914	352.72620	263.55704	11.11578	0.1987644	0.28420558	2.2911190	20	3 29.3	18.3
162638 2000 ST_{175}	16.4	X	224.05795	61.40281	297.42531	5.92345	0.1349066	0.27925113	2.3181387	20	4 8.9	20.0
162639 2000 SV_{176}	16.3	X	90.11833	129.69688	290.35878	5.67391	0.0767482	0.26701804	2.3884105	20	1 24.2	18.9
162640 2000 SM_{178}	16.1	X	95.67114	64.94996	345.28709	5.23519	0.2469309	0.26604036	2.3942585	20	2 16.8	18.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
162641 2000 SB_{179}	16.3	X	114.59719	38.13482	13.98715	11.98922	0.2436978	0.26875442	2.3781120	20	3 15.1	19.6
162642 2000 SC_{191}	16.2	X	136.63888	337.36084	138.05103	4.67069	0.1158066	0.28312858	2.2969255	20	6 14.9	19.4
162643 2000 SA_{198}	16.5	X	269.35750	281.18784	4.15961	6.45483	0.1081609	0.27900390	2.3195080	20	2 29.4	19.7
162644 2000 SZ_{204}	16.6	X	326.58507	95.05782	219.13197	2.24638	0.1860073	0.28992723	2.2608758	20	6 29.5	18.3
162645 2000 SV_{207}	17.0	X	194.69600	312.78953	11.87657	2.59280	0.1734034	0.27233032	2.3572486	20	2 2.4	20.6
162646 2000 SJ_{208}	16.4	X	215.30196	220.26097	142.39224	7.10844	0.1470024	0.27813333	2.3243455	20	4 10.6	20.0
162647 2000 SM_{216}	16.4	X	241.90625	222.12500	133.51152	5.95030	0.1855617	0.28230562	2.3013872	20	4 24.9	19.9
162648 2000 ST_{218}	16.0	X	244.08771	226.78424	106.91559	7.50306	0.2265000	0.28034914	2.3120820	20	3 27.9	19.8
162649 2000 SF_{220}	16.3	X	270.30585	233.15619	121.48252	7.47343	0.1462854	0.28498783	2.2869246	20	5 30.7	19.3
162650 2000 SS_{222}	16.2	X	69.85049	220.01531	261.01033	4.57566	0.1105444	0.27463506	2.3440420	20	3 20.3	18.9
162651 2000 SU_{228}	16.6	X	182.67054	105.87000	210.57645	2.28753	0.1613820	0.26925622	2.3751565	20	1 11.0	20.3
162652 2000 SW_{229}	16.4	X	137.77562	8.39411	52.06798	2.83044	0.2038308	0.27353516	2.3503215	20	4 11.7	19.8
162653 2000 SM_{230}	16.8	X	195.92503	95.11542	222.99813	0.81687	0.1971955	0.27122258	2.3636626	20	1 26.2	20.6
162654 2000 SY_{232}	15.7	X	218.59324	332.64963	10.01322	24.30381	0.1758071	0.27624712	2.3349139	20	3 20.2	19.5
162655 2000 SN_{235}	16.6	X	301.70668	272.89538	2.48131	6.48358	0.1047993	0.28247346	2.3004755	20	3 27.0	19.2
162656 2000 SB_{242}	17.0	X	191.31608	317.96241	103.65613	2.14390	0.2048840	0.28379565	2.2933248	20	5 30.6	20.8
162657 2000 SJ_{244}	16.3	X	180.57311	344.22371	95.17371	3.73067	0.1281058	0.28482283	2.2878077	20	6 13.8	19.6
162658 2000 SK_{244}	16.8	X	217.99582	199.46154	167.45786	7.32373	0.1316277	0.28212990	2.3023427	20	4 18.6	20.2
162659 2000 SJ_{247}	16.7	X	202.41871	275.57661	116.65324	4.36486	0.0999048	0.28186007	2.3038119	20	5 6.7	20.0
162660 2000 SJ_{248}	17.1	X	263.10766	163.62208	123.14432	3.31673	0.2137367	0.27998310	2.3140967	20	2 12.9	20.5
162661 2000 SG_{253}	16.3	X	139.68922	97.31174	349.32800	7.11280	0.1024960	0.28016283	2.3131069	20	5 5.4	19.6
162662 2000 SF_{257}	16.1	X	283.48464	230.05608	52.41266	6.33258	0.1571577	0.27959510	2.3162371	20	3 8.8	19.2
162663 2000 SS_{257}	16.8	X	127.05039	202.46852	228.80614	1.94543	0.1787758	0.27412062	2.3469738	20	4 11.0	19.9
162664 2000 SE_{258}	16.2	X	239.25549	105.02605	179.33091	7.06305	0.1307951	0.27269614	2.3551400	20	1 22.8	19.8
162665 2000 SZ_{259}	16.1	X	73.29650	200.09397	244.73901	2.29672	0.1299407	0.26742420	2.3859916	20	2 8.3	18.6
162666 2000 SS_{263}	16.4	X	61.81545	148.00580	334.31776	5.25627	0.0801380	0.27526792	2.3404479	20	3 6.7	18.8
162667 2000 SN_{267}	16.6	X	102.68582	291.68893	146.11948	2.98400	0.1860899	0.27098598	2.3650383	20	3 24.7	19.4
162668 2000 SM_{268}	17.0	X	186.50074	304.00437	104.15224	3.22806	0.2097164	0.27904125	2.3193010	20	5 9.8	20.9
162669 2000 SS_{277}	16.6	X	212.70844	140.64775	214.76431	1.97135	0.1656495	0.27738391	2.3285302	20	3 25.9	20.2
162670 2000 SQ_{280}	16.0	X	173.36215	83.11994	302.88698	3.24655	0.1540194	0.27471792	2.3435707	20	3 26.9	19.6
162671 2000 SV_{287}	15.7	X	72.38921	106.30344	337.72119	11.56825	0.2299020	0.26498320	2.4006222	20	2 23.6	17.7
162672 2000 SR_{299}	16.3	X	195.76972	135.84957	240.31365	4.58499	0.1406196	0.27842363	2.3227296	20	4 4.6	19.8
162673 2000 SF_{304}	16.2	X	215.65132	29.93101	292.86358	6.30235	0.1419532	0.27514185	2.3411628	20	2 15.9	19.8
162674 2000 SF_{305}	16.2	X	73.10412	91.54390	316.05662	5.04548	0.1745951	0.26374891	2.4081060	20	—	—
162675 2000 SW_{327}	16.1	X	95.42370	136.65525	281.03543	3.52238	0.1607878	0.26729171	2.3867800	20	2 10.3	18.9
162676 2000 SO_{368}	17.4	X	225.62286	345.31895	17.37356	2.99303	0.1785527	0.28266818	2.2994189	20	4 15.9	20.9
162677 2000 SA_{372}	16.7	X	149.06857	273.84708	144.93390	3.00138	0.1776723	0.27535458	2.3399569	20	4 18.8	20.3
162678 2000 SE_{372}	16.4	X	156.82700	44.06845	284.35810	5.21479	0.1465705	0.26582432	2.3955555	20	—	—
162679 2000 TK_{1}	17.8	X	209.52758	167.36016	13.02477	29.22988	0.5716342	0.75028623	1.1994571	20	—	—
162680 2000 TY_{12}	16.8	X	241.99338	67.30703	221.26444	2.46740	0.1472004	0.27421210	2.3464518	20	1 30.3	20.5
162681 2000 TU_{13}	16.9	X	130.55223	10.24802	356.42505	1.03444	0.1276077	0.26753904	2.3853088	20	1 16.3	19.9
162682 2000 TL_{15}	16.6	X	70.89529	113.20390	339.90725	1.73068	0.1518496	0.26826356	2.3810121	20	2 20.4	19.0
162683 2000 TP_{39}	16.3	X	267.61248	211.07174	91.34526	7.46523	0.1593847	0.28194384	2.3033555	20	3 17.2	19.6
162684 2000 TC_{51}	16.7	X	168.56324	277.23286	117.42400	6.38370	0.2446816	0.27548646	2.3392100	20	4 10.9	20.8
162685 2000 TK_{59}	15.4	X	237.06227	12.87562	40.06826	27.23913	0.2393362	0.28651907	2.2787693	20	6 24.4	19.4
162686 2000 TO_{65}	17.0	X	185.62035	356.54503	265.68066	0.93251	0.1305520	0.26166802	2.4208559	20	—	—
162687 2000 UH_{1}	19.0	X	198.50937	40.89547	76.19241	14.77853	0.5433087	0.38359393	1.8759513	20	8 9.1	23.0
162688 2000 UJ_{4}	16.3	X	144.89410	269.90346	111.99461	5.11655	0.1346739	0.27027674	2.3691739	20	2 23.5	19.5
162689 2000 UN_{4}	16.4	X	76.81886	331.56431	85.07208	3.69054	0.1840591	0.26382783	2.4076258	20	1 14.9	18.5
162690 2000 UK_{5}	16.3	X	150.72030	187.93609	210.78960	6.82537	0.2102940	0.27173859	2.3606694	20	3 25.7	20.0
162691 2000 UN_{6}	16.9	X	252.26056	256.14350	135.51300	0.47583	0.2374256	0.28628593	2.2800063	20	6 15.2	20.1
162692 2000 UJ_{8}	16.7	X	191.54959	155.60055	219.89224	3.65239	0.2389328	0.27619421	2.3352121	20	4 1.2	20.5
162693 2000 UN_{10}	16.3	X	249.00121	327.81901	51.03632	6.31662	0.1756409	0.28375618	2.2935374	20	5 31.7	19.3
162694 2000 UH_{11}	19.6	X	221.20635	187.39706	29.78869	32.22541	0.4223756	1.21397401	0.8702883	20	—	—
162695 2000 UL_{11}	20.1	X	97.49906	151.71484	333.32198	2.18889	0.6364356	0.31892489	2.1216664	20	7 4.7	24.3
162696 2000 UK_{12}	16.6	X	152.36437	313.00817	33.53013	2.16839	0.2038473	0.26706146	2.3881517	20	1 24.2	20.1
162697 2000 UO_{18}	16.1	X	130.09303	108.72040	321.59565	6.12102	0.1042318	0.27212868	2.3584129	20	4 1.9	19.3
162698 2000 UN_{30}	18.2	X	147.54624	271.79170	66.25020	20.69083	0.4874587	0.31946748	2.1192635	20	2 1.2	22.4
162699 2000 US_{30}	16.8	X	178.51945	256.75024	209.64338	3.65882	0.0711605	0.28534501	2.2850157	20	7 19.1	20.0
162700 2000 UZ_{38}	16.7	X	191.73124	320.06781	55.28812	3.32026	0.1817899	0.27624174	2.3349442	20	4 2.9	20.3
162701 2000 UL_{42}	16.6	X	17.27794	306.56873	135.23080	1.76572	0.1612165	0.25798936	2.4438142	20	—	—
162702 2000 UT_{43}	16.4	X	133.08001	158.59398	223.03937	3.14425	0.1591994	0.26790101	2.3831597	20	2 10.3	19.8
162703 2000 UW_{51}	16.5	X	213.46540	92.46506	262.81327	2.26965	0.2010613	0.27674514	2.3321119	20	3 24.9	20.3
162704 2000 UR_{63}	16.4	X	46.03155	107.86371	322.13498	3.36182	0.1708281	0.26122022	2.4236218	20	—	—
162705 2000 UB_{66}	14.3	X	163.29146	18.69424	20.81512	3.27232	0.1701588	0.12362275	3.9908964	20	4 12.8	20.5
162706 2000 UY_{68}	15.8	X	89.04912	136.75345	279.33326	4.77393	0.1073964	0.26593131	2.3949130	20	1 21.7	18.6
162707 2000 UW_{69}	16.3	X	194.98037	27.43299	348.27524	3.05373	0.1409983	0.27639742	2.3340674	20	4 4.1	19.8
162708 2000 UR_{70}	16.4	X	156.09125	309.36672	17.33298	6.08211	0.1402020	0.26499269	2.4005649	20	—	—
162709 2000 UE_{71}	15.6	X	354.89268	198.38746	21.02093	7.67592	0.0500661	0.27553808	2.3389178	20	4 7.3	18.1
162710 2000 UU_{72}	16.3	X	82.78971	64.21079	20.53398	6.83208	0.1328203	0.26796664	2.3827706	20	2 28.2	18.9
162711 2000 UA_{78}	15.8	X	132.57774	271.50696	41.92684	9.76677	0.0570976	0.25795767	2.4440143	20	—	—
162712 2000 UY_{85}	17.1	X	140.81568	232.55739	156.15171	2.33794	0.2179118	0.27061957	2.3671725	20	3 6.1	20.6
162713 2000 UY_{95}	16.1	X	61.17399	47.87120	9.62214	6.99377	0.1055387	0.26169823	2.4206697	20	—	—
162714 2000 UN_{96}	15.8	X	192.14221	24.35956	345.85006	4.74615	0.0412518	0.27402810	2.3475020	20	3 23.9	18.8
162715 2000 UN_{99}	16.6	X	72.84176	68.02563	346.14633	3.83325	0.1464553	0.26250294	2.4157200	20	—	—
162716 2000 UT_{100}	16.0	X	143.72312	55.87844	269.55223	5.57197	0.1599259	0.26198229	2.4189196	20	—	—
162717 2000 UH_{102}	16.3	X	176.23319	59.95993	258.52400	10.62897	0.2513568	0.26776420	2.3839714	20	1 12.1	20.3
162718 2000 UW_{103}	15.8	X	58.31648	92.04202	324.14883	5.58619	0.1334470	0.25972160	2.4329359	20	—	—
162719 2000 UY_{103}	16.3	X	228.05052	337.07609	1.30643	5.49472	0.2163007	0.27578733	2.3375084	20	3 17.3	20.1
162720 2000 UR_{110}	15.9	X	166.92817	256.70188	99.45651	7.43818	0.1758811	0.26937647	2.3744495	20	2 17.8	19.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
162721 2000 UC_{114}	16.4	X	89.78220	271.17602	155.75016	2.11977	0.1509327	0.26671790	2.3902020	20	2 13.9	18.9
162722 2000 VD	16.6	X	133.39160	182.53325	232.52496	4.40910	0.2182281	0.27224834	2.3577218	20	3 30.6	20.3
162723 2000 VM_{2}	17.4	X	55.63616	187.31585	329.82824	6.38534	0.6805897	0.41664389	1.7753857	20	7 30.4	20.0
162724 2000 VW_{2}	16.4	X	126.94359	28.17298	20.70682	2.91149	0.1876605	0.26899468	2.3766958	20	3 15.2	19.6
162725 2000 VT_{11}	16.4	X	103.98869	192.48340	200.82482	3.91007	0.0874984	0.26501793	2.4004125	20	1 9.7	19.3
162726 2000 VR_{12}	16.4	X	186.42749	145.32090	172.54280	2.30439	0.2134969	0.26888646	2.3773334	20	1 18.7	20.3
162727 2000 VO_{14}	16.5	X	172.86238	212.63737	117.51464	3.26604	0.2289331	0.26843290	2.3800106	20	1 23.6	20.2
162728 2000 VY_{14}	16.6	X	113.90748	277.13815	105.54407	4.22669	0.1825829	0.26535981	2.3983503	20	1 24.9	19.5
162729 2000 VU_{16}	16.9	X	113.05550	274.71608	130.20669	3.02836	0.2097727	0.26727461	2.3868818	20	2 26.1	20.0
162730 2000 VO_{17}	16.2	X	176.49923	292.61249	79.75250	5.82475	0.1626970	0.27251183	2.3562018	20	3 17.9	19.9
162731 2000 VG_{22}	16.1	X	204.28804	84.12632	243.29264	3.38302	0.1371471	0.27186893	2.3599148	20	2 11.6	19.6
162732 2000 VK_{23}	16.9	X	118.55660	8.35187	24.65268	3.13317	0.2229179	0.26745394	2.3858148	20	2 19.5	20.2
162733 2000 VH_{34}	16.0	X	179.29949	288.34920	80.08736	5.64838	0.2445477	0.27243838	2.3566252	20	3 18.2	20.1
162734 2000 VH_{48}	16.2	X	221.77959	26.59547	297.49311	1.59792	0.2206700	0.27352020	2.3504072	20	2 22.9	20.0
162735 2000 VL_{48}	16.9	X	100.70668	116.71718	312.12811	1.29159	0.1921701	0.26735860	2.3863819	20	3 9.7	19.9
162736 2000 VD_{52}	16.2	X	123.09803	113.87851	302.60417	3.72544	0.1664901	0.27016509	2.3698266	20	3 15.5	19.4
162737 2000 VP_{53}	16.3	X	245.52375	102.20195	252.69844	5.73432	0.1509200	0.28048515	2.3113345	20	4 27.2	19.7
162738 2000 VG_{55}	17.1	X	163.82042	23.94414	11.68518	2.50754	0.2164277	0.27353500	2.3503224	20	4 3.9	20.8
162739 2000 WS	14.8	X	241.11629	143.34141	358.74113	27.53908	0.1529731	0.24403821	2.5360871	20	10 24.1	18.7
162740 2000 WF_{6}	18.4	X	17.22574	159.14011	264.33940	39.19907	0.5031097	0.25557756	2.4591644	20	—	—
162741 2000 WG_{6}	17.3	X	193.15062	330.08737	60.75819	11.84794	0.4995438	0.27935627	2.3175571	20	4 24.5	22.2
162742 2000 WV_{14}	16.6	X	134.69862	348.94858	37.95869	5.38802	0.1710573	0.26738039	2.3862522	20	2 24.3	20.0
162743 2000 WN_{15}	16.0	X	132.85805	339.86701	71.16752	6.29309	0.2290184	0.26776564	2.3839629	20	3 31.0	19.7
162744 2000 WA_{18}	16.5	X	266.89016	295.50433	36.62036	3.44300	0.1777550	0.28066822	2.3103293	20	4 18.9	19.7
162745 2000 WT_{18}	16.2	X	157.17949	133.40108	254.96192	4.15673	0.2408206	0.27110213	2.3643627	20	3 19.7	20.2
162746 2000 WJ_{24}	15.9	X	36.73066	301.80828	199.20271	10.39359	0.1692377	0.26632597	2.3925464	20	2 23.5	18.0
162747 2000 WH_{28}	16.0	X	117.27740	346.99521	106.05285	13.82544	0.1388570	0.27313329	2.3526264	20	5 1.4	19.5
162748 2000 WG_{30}	15.8	X	137.18136	272.57999	91.20542	7.28203	0.1418079	0.26595223	2.3947874	20	1 23.3	19.0
162749 2000 WF_{42}	16.5	X	81.47206	211.45956	231.00433	5.82450	0.2077384	0.26635016	2.3924015	20	2 29.5	19.2
162750 2000 WY_{42}	17.0	X	148.37812	258.70898	121.02637	2.99761	0.2344637	0.26987308	2.3715357	20	3 4.2	20.6
162751 2000 WZ_{46}	16.8	X	132.30371	250.83878	163.54612	2.25599	0.1936025	0.27041680	2.3683557	20	3 28.3	20.2
162752 2000 WF_{48}	16.0	X	125.82117	278.92101	122.78382	5.51329	0.2139522	0.26666174	2.3905376	20	3 9.2	19.4
162753 2000 WO_{55}	14.6	X	248.88279	50.74199	96.43051	12.77242	0.1240269	0.24088232	2.5581898	20	11 30.1	17.8
162754 2000 WP_{56}	16.0	X	85.90612	200.93439	237.54081	5.46516	0.1012587	0.26693077	2.3889311	20	2 13.8	18.8
162755 Spacesora	16.5	X	109.23197	231.01454	147.54151	5.25093	0.1205152	0.26166728	2.4208605	20	1 3.5	19.3
162756 2000 WT_{82}	16.7	X	112.21655	110.66736	321.14637	2.31700	0.2115733	0.26887757	2.3773858	20	3 30.0	20.0
162757 2000 WP_{87}	16.5	X	146.36204	78.64987	351.64874	3.15393	0.2620851	0.27153652	2.3618404	20	5 4.5	20.4
162758 2000 WA_{96}	16.6	X	78.21218	324.19616	83.85591	3.77877	0.2253547	0.26143568	2.4222901	20	1 12.1	18.6
162759 2000 WV_{101}	16.2	X	87.68720	292.11948	126.21992	6.57114	0.1254404	0.26607043	2.3940780	20	1 25.9	18.7
162760 2000 WZ_{108}	16.3	X	83.96237	37.88372	34.65647	5.51032	0.2084452	0.26513763	2.3996899	20	2 25.6	18.9
162761 2000 WG_{110}	16.4	X	135.67739	112.62838	294.06388	4.30511	0.2327737	0.27009902	2.3702130	20	3 22.9	20.0
162762 2000 WN_{115}	16.1	X	138.21008	349.17329	56.29138	6.63007	0.1625822	0.26919852	2.3754958	20	3 22.6	19.6
162763 2000 WY_{115}	16.3	X	88.94476	103.27462	328.34143	1.96293	0.1696953	0.26473377	2.4021299	20	2 22.7	18.8
162764 2000 WJ_{117}	16.0	X	141.39143	6.91089	354.80213	4.92265	0.2077958	0.26422151	2.4052336	20	2 2.7	19.5
162765 2000 WO_{120}	16.2	X	19.31552	355.15818	73.41707	12.96883	0.1418197	0.25306926	2.4753871	20	—	—
162766 2000 WU_{127}	16.6	X	138.69088	136.26760	236.19652	1.83356	0.2012668	0.26604645	2.3942219	20	2 10.4	20.2
162767 2000 WD_{135}	15.0	X	21.91739	99.70083	344.98865	10.39997	0.2117932	0.25525409	2.4612416	20	—	—
162768 2000 WC_{138}	16.4	X	189.63734	238.25700	76.71115	2.18179	0.1956394	0.26820725	2.3813453	20	1 17.9	20.2
162769 2000 WJ_{155}	16.1	X	243.45354	34.10198	322.85929	6.15327	0.1504947	0.28033463	2.3121618	20	4 26.1	19.5
162770 2000 WS_{156}	16.4	X	54.98717	91.20543	306.62207	5.76165	0.1109220	0.25722003	2.4486847	20	—	—
162771 2000 WP_{169}	16.2	X	110.82056	273.14570	124.89698	7.72738	0.1254475	0.26619306	2.3933427	20	2 1.3	18.9
162772 2000 WX_{175}	15.4	X	127.14791	21.35247	27.07770	11.10555	0.2719703	0.26562773	2.3967373	20	3 26.4	19.1
162773 2000 WJ_{191}	16.4	X	125.56087	170.64010	178.76842	5.88775	0.1569146	0.26365009	2.4087077	20	—	—
162774 2000 XV_{1}	16.0	X	54.23615	164.10056	273.37901	5.36010	0.0803091	0.25883290	2.4385017	20	—	—
162775 2000 XG_{6}	15.8	X	240.58240	23.11540	339.95258	7.15857	0.1421376	0.27909756	2.3189890	20	5 1.9	19.2
162776 2000 XO_{11}	16.3	X	143.01201	97.07780	310.10685	6.71068	0.1809266	0.27071649	2.3666075	20	3 24.7	19.9
162777 2000 XV_{23}	13.8	X	159.90947	141.86692	293.23284	10.59595	0.2693959	0.12426271	3.9771822	20	5 22.0	20.6
162778 2000 XJ_{26}	16.1	X	100.80427	35.91831	37.76606	12.52507	0.1476972	0.26618513	2.3933903	20	3 16.4	19.2
162779 2000 XE_{30}	15.5	X	106.66297	27.28668	3.13112	9.85519	0.2369902	0.26231709	2.4168609	20	2 6.8	18.6
162780 2000 XJ_{38}	15.5	X	158.15175	86.53214	326.46840	21.59158	0.3239854	0.27128382	2.3633069	20	4 14.1	20.2
162781 2000 XL_{44}	17.6	X	295.52251	163.88469	332.02768	10.04529	0.4275247	0.29710163	2.2243307	20	—	—
162782 2000 XS_{47}	16.3	X	182.13788	19.71340	22.04376	9.04457	0.2045164	0.27617082	2.3353440	20	4 25.7	20.1
162783 2000 YJ_{11}	20.7	X	359.53298	339.14119	64.94379	7.26325	0.2321348	0.65479355	1.3134084	20	—	—
162784 2000 YQ_{15}	16.0	X	127.87126	1.65509	40.75835	4.05014	0.2848084	0.26627159	2.3928722	20	3 19.5	19.7
162785 2000 YA_{17}	15.6	X	184.76129	267.60089	112.12162	22.51710	0.2966139	0.27696467	2.3308794	20	4 13.5	20.3
162786 2000 YT_{21}	16.0	X	97.55259	343.71508	54.81519	13.44382	0.2888330	0.26191847	2.4193125	20	2 16.6	19.2
162787 2000 YB_{22}	15.1	X	216.47997	83.33647	67.06292	5.66333	0.1903488	0.23779555	2.5802804	20	10 16.2	19.0
162788 2000 YR_{31}	16.3	X	18.18103	331.93199	310.90730	5.43329	0.0568180	0.22825305	2.6517037	20	8 14.5	19.5
162789 2000 YF_{33}	16.0	X	177.09707	247.08338	127.69549	7.00871	0.3029367	0.27027900	2.3691607	20	3 25.8	20.3
162790 2000 YJ_{35}	16.3	X	163.91924	297.52889	103.05181	6.05422	0.2208135	0.27226167	2.3576448	20	4 13.6	20.2
162791 2000 YC_{42}	16.5	X	111.80014	297.62443	132.90658	2.86940	0.1968945	0.26645661	2.3917643	20	3 28.3	19.7
162792 2000 YX_{43}	16.4	X	58.21596	105.03733	321.55180	2.05674	0.1587008	0.25852452	2.4404405	20	—	—
162793 2000 YY_{43}	16.4	X	167.54544	282.98041	123.62354	2.58985	0.2943215	0.27305719	2.3530634	20	4 24.7	20.5
162794 2000 YC_{48}	16.6	X	149.30729	291.13629	97.42690	2.25252	0.1891922	0.26734399	2.3864688	20	3 12.7	20.1
162795 2000 YF_{52}	16.2	X	155.96220	121.99280	297.79480	4.50032	0.2209196	0.27182404	2.3601746	20	4 26.1	20.1
162796 2000 YA_{69}	13.4	X	156.96273	355.31131	80.82178	8.85294	0.1358742	0.12442285	3.9737690	20	5 19.0	19.6
162797 2000 YR_{74}	16.2	X	95.10412	226.10100	171.85725	2.88632	0.2140520	0.26233148	2.4167725	20	1 23.7	18.8
162798 2000 YV_{79}	16.3	X	71.52271	320.71785	110.34173	3.87757	0.1737980	0.26193241	2.4192266	20	1 24.9	18.4
162799 2000 YH_{80}	16.2	X	13.89393	163.56850	309.83708	1.70686	0.1672681	0.25774600	2.4453522	20	—	—
162800 2000 YT_{82}	16.2	X	107.75933	199.11663	184.03055	2.66474	0.1869517	0.26280861	2.4138465	20	1 17.5	19.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
162801 2000 YV_{91}	15.9	X	59.75275	30.94935	77.71961	2.83356	0.1706867	0.26249829	2.4157486	20	2 28.1	18.1
162802 2000 YK_{120}	15.9	X	42.28723	63.64934	5.74876	5.47839	0.1644211	0.25518930	2.4616581	20	—	—
162803 2000 YG_{133}	16.0	X	117.25961	167.48494	303.46646	1.25364	0.2888800	0.26730809	2.3866825	20	6 3.7	19.8
162804 2000 YV_{136}	15.6	X	318.53543	291.15630	142.26649	13.72685	0.1589639	0.24412535	2.5354835	20	12 16.5	18.3
162805 2001 AR	12.2	X	263.93901	320.15871	130.74154	25.21367	0.1109256	0.08309090	5.2011622	20	9 18.4	19.3
162806 2001 AY_{10}	15.8	X	135.00753	128.52452	271.09014	5.63690	0.1163742	0.26426549	2.4049668	20	2 29.3	19.3
162807 2001 AN_{12}	15.8	X	146.16895	101.39915	273.40111	6.17378	0.2435903	0.26407355	2.4061320	20	2 22.7	19.6
162808 2001 AS_{12}	15.9	X	201.24646	231.28956	153.84575	7.62053	0.2724017	0.27390704	2.3481937	20	4 23.8	20.1
162809 2001 AW_{34}	15.7	X	161.11026	200.65718	325.94568	4.34440	0.1402838	0.23309355	2.6148646	20	9 12.5	19.8
162810 2001 AA_{37}	15.6	X	177.73568	13.70542	30.36998	8.75143	0.1983865	0.27132280	2.3630806	20	4 25.6	19.4
162811 2001 AG_{51}	13.0	X	281.58863	129.41611	297.15436	3.44452	0.0540971	0.08442864	5.1460760	20	9 12.4	19.8
162812 2001 AV_{51}	16.2	X	44.24250	257.56583	129.31649	6.93692	0.1725473	0.25059046	2.4916844	20	—	—
162813 2001 BE_{9}	15.9	X	109.60962	270.06425	107.95949	13.45451	0.2688381	0.25875999	2.4389597	20	1 27.7	19.0
162814 2001 BT_{19}	16.0	X	159.63360	318.71912	85.19463	5.87388	0.2062534	0.26931256	2.3748252	20	4 13.2	19.8
162815 2001 BU_{22}	16.6	X	128.25983	302.94329	100.78514	2.10575	0.2115156	0.26594189	2.3948494	20	3 13.3	19.9
162816 2001 BL_{23}	16.4	X	66.87946	318.89600	105.53585	5.56772	0.1827097	0.25863990	2.4397146	20	1 7.9	18.5
162817 2001 BX_{28}	16.1	X	145.24600	175.71278	273.00837	2.52080	0.1979084	0.27106806	2.3645608	20	5 24.1	19.7
162818 2001 BF_{33}	15.8	X	140.45535	54.04958	26.28601	0.64951	0.1724859	0.26832910	2.3806243	20	5 6.9	19.4
162819 2001 BD_{34}	15.3	X	141.04837	97.01438	324.25065	22.14126	0.3121493	0.26796861	2.3827589	20	4 10.6	19.9
162820 2001 BK_{36}	15.2	X	82.61204	222.14678	336.48592	11.04405	0.1309807	0.22300793	2.6931208	20	8 4.3	19.0
162821 2001 BV_{42}	15.1	X	188.82968	305.25936	262.34131	8.54130	0.0784158	0.23985536	2.5654867	20	12 7.0	18.5
162822 2001 BD_{49}	12.4	X	277.15595	284.48834	161.29830	24.39042	0.0695669	0.08335339	5.1902371	20	9 30.7	19.3
162823 2001 BV_{58}	15.5	X	256.01795	145.12434	319.47068	11.16920	0.0404335	0.23574555	2.5952172	20	10 17.8	19.2
162824 2001 BK_{60}	15.2	X	62.82851	100.40796	73.08059	23.08829	0.0413339	0.36582173	1.9362275	20	5 19.9	17.0
162825 2001 BO_{61}	18.0	X	31.51479	78.82515	159.81074	9.07851	0.7432681	0.41724896	1.7736689	20	11 2.5	21.5
162826 2001 BE_{64}	16.0	X	263.67257	350.18388	140.38376	4.82582	0.1825617	0.23998055	2.5645944	20	11 19.7	18.9
162827 2001 BT_{76}	16.0	X	116.41684	87.23348	317.19459	3.97395	0.1903044	0.26136098	2.4227516	20	2 26.0	19.2
162828 2001 CG	15.5	X	351.80062	64.26708	83.09288	8.48199	0.1388775	0.25543748	2.4600634	20	—	—
162829 2001 CX_{1}	15.4	X	223.09136	79.32547	104.24383	6.09038	0.0506282	0.24078684	2.5588660	20	12 21.9	18.7
162830 2001 CK_{2}	15.7	X	144.05326	47.25889	38.88938	2.93670	0.1622256	0.26944020	2.3740751	20	5 17.2	19.3
162831 2001 CV_{4}	15.4	X	269.04393	22.44424	93.06387	5.39688	0.1470814	0.23886326	2.5725854	20	11 12.8	18.4
162832 2001 CO_{6}	16.0	X	99.34301	62.24707	47.88951	1.89063	0.1321017	0.26578309	2.3958033	20	4 25.1	18.9
162833 2001 CS_{15}	15.6	X	248.47964	107.66673	324.39246	21.66496	0.0495809	0.23093875	2.6311050	20	8 25.7	19.2
162834 2001 CO_{17}	15.4	X	54.18504	73.63112	132.92727	11.54318	0.0881223	0.21913029	2.7247988	20	6 27.8	19.0
162835 2001 CA_{19}	15.3	X	30.76910	104.15202	125.76056	3.62130	0.1244023	0.21938427	2.7226954	20	6 28.0	18.4
162836 2001 CY_{22}	15.6	X	145.54840	82.01139	148.61335	5.54010	0.1569461	0.23660709	2.5889135	20	11 18.7	19.8
162837 2001 CB_{30}	15.4	X	205.91032	116.55981	21.47165	6.69685	0.1500936	0.23376806	2.6098323	20	9 22.7	19.3
162838 2001 CC_{36}	15.9	X	184.49945	146.81356	39.70425	5.51936	0.2000817	0.23387164	2.6090617	20	10 27.3	20.3
162839 2001 CX_{36}	16.0	X	295.56747	300.10081	149.19097	13.75207	0.1472689	0.23961853	2.5671768	20	11 24.9	19.0
162840 2001 DE_{3}	17.0	X	23.64585	121.72999	133.47822	23.57486	0.0535168	0.37495400	1.9046597	20	7 27.9	18.5
162841 2001 DF_{4}	15.5	X	247.02586	58.09049	68.41077	6.54519	0.1147311	0.23929978	2.5694560	20	10 31.8	18.7
162842 2001 DQ_{7}	15.6	X	129.94473	228.75271	8.95848	13.95084	0.0959499	0.23223738	2.6212874	20	11 5.4	19.8
162843 2001 DN_{13}	15.2	X	200.04849	165.07767	12.97433	16.56271	0.0983939	0.23429243	2.6059368	20	11 4.4	19.2
162844 2001 DV_{27}	15.8	X	215.22089	160.29903	340.64923	22.05505	0.0742880	0.23373313	2.6100923	20	10 3.3	19.8
162845 2001 DZ_{27}	15.7	X	179.02429	359.35354	139.57672	6.58673	0.0473122	0.22790710	2.6543864	20	8 31.1	19.3
162846 2001 DK_{28}	16.4	X	133.39925	1.53194	57.00153	3.10679	0.2910760	0.26598896	2.3945669	20	4 13.2	20.2
162847 2001 DA_{31}	16.1	X	174.70180	114.87664	85.53268	2.49536	0.1420111	0.23394974	2.6084810	20	11 7.9	20.0
162848 2001 DV_{31}	15.8	X	168.32527	154.62855	356.44273	7.75152	0.0873307	0.22748992	2.6576306	20	9 2.8	19.7
162849 2001 DN_{32}	16.4	X	86.47759	282.60950	133.26138	9.60970	0.2401344	0.25826620	2.4420675	20	2 10.3	19.0
162850 2001 DV_{34}	15.9	X	83.09238	263.79188	143.79428	3.65041	0.2166454	0.25815020	2.4427990	20	1 19.1	18.3
162851 2001 DF_{39}	12.4	X	262.47399	160.82277	298.58961	9.72460	0.0403054	0.08238252	5.2309352	20	9 25.6	19.5
162852 2001 DJ_{43}	15.8	X	194.61596	167.49005	334.55381	4.21505	0.0536674	0.23077741	2.6323311	20	9 20.9	19.4
162853 2001 DO_{43}	15.9	X	323.35426	100.16500	335.48559	5.14443	0.2157258	0.24299001	2.5433752	20	—	—
162854 2001 DE_{47}	19.0	X	302.90893	297.79614	122.42268	21.26829	0.1492399	0.64775845	1.3229009	20	—	—
162855 2001 DU_{50}	15.7	X	257.03811	140.45281	17.84428	9.80009	0.1274569	0.24227119	2.5484035	20	12 24.5	18.9
162856 2001 DN_{53}	15.4	X	268.67986	90.69480	132.90627	8.05783	0.2377004	0.19894824	2.9060917	20	—	—
162857 2001 DP_{70}	15.8	X	79.03779	39.01834	150.73521	6.53515	0.1015130	0.21873554	2.7280761	20	7 11.1	19.5
162858 2001 DZ_{71}	15.5	X	145.81620	177.88254	337.96042	8.15583	0.1016912	0.22406993	2.6846046	20	8 15.4	19.6
162859 2001 DW_{76}	16.3	X	260.80268	311.53421	167.91187	6.75413	0.1233801	0.23747017	2.5826368	20	11 9.3	19.5
162860 2001 DF_{102}	15.9	X	353.48193	300.05235	119.13342	15.77222	0.1038330	0.24350708	2.5397735	20	—	—
162861 2001 DY_{103}	12.0	X	335.89377	239.66102	136.19362	28.65884	0.1525770	0.08302844	5.2037706	20	9 23.2	18.4
162862 2001 DQ_{104}	16.3	X	328.26701	294.46456	153.03624	3.46713	0.1383356	0.24438772	2.5336685	20	—	—
162863 2001 EX_{4}	15.4	X	359.29537	236.27716	6.06626	9.19630	0.0915860	0.21399881	2.7681852	20	5 16.2	18.8
162864 2001 EZ_{4}	16.3	X	126.33434	167.01260	63.72497	3.18200	0.0694623	0.23100563	2.6305971	20	10 27.9	20.2
162865 2001 EP_{8}	16.2	X	225.28158	329.02637	160.55209	13.86132	0.1448639	0.23270968	2.6177395	20	10 4.3	20.0
162866 2001 EB_{13}	16.6	X	278.57660	4.15015	14.34786	21.63136	0.0811224	0.37764080	1.8956149	20	8 22.7	18.7
162867 2001 EA_{19}	15.7	X	101.13031	37.53024	170.85759	13.49010	0.1280450	0.22293987	2.6936689	20	9 3.9	19.7
162868 2001 ET_{19}	15.3	X	310.97328	201.91232	159.47040	15.33922	0.1383139	0.22651822	2.6652255	20	8 9.7	18.3
162869 2001 EF_{20}	15.8	X	50.59047	35.67821	174.45437	5.13794	0.0489984	0.21803810	2.7338905	20	6 21.4	19.3
162870 2001 EY_{23}	15.8	X	109.68509	14.04357	165.42866	9.49231	0.1250059	0.22154019	2.7050027	20	8 5.9	19.9
162871 2001 EO_{26}	15.9	X	199.18758	296.29402	180.02982	3.74280	0.0923284	0.22649635	2.6653971	20	8 20.2	19.7
162872 2001 FP_{3}	15.2	X	57.98845	13.49847	180.04240	9.20227	0.0873523	0.21343385	2.7730680	20	6 15.2	18.9
162873 2001 FB_{7}	19.0	X	197.35727	198.69182	357.89765	20.19446	0.0864497	0.59468204	1.4004884	20	—	—
162874 2001 FV_{12}	16.1	X	43.21707	84.53798	177.92222	14.29706	0.0798085	0.22137672	2.7063342	20	8 24.4	19.7
162875 2001 FD_{20}	15.2	X	54.27321	310.43744	217.63250	7.94792	0.0906854	0.21114387	2.7930823	20	5 6.1	18.6
162876 2001 FC_{24}	16.9	X	165.82103	292.71679	174.29538	22.66354	0.0522645	0.37268331	1.9123883	20	7 8.1	19.7
162877 2001 FB_{28}	15.9	X	317.96395	80.45466	145.94545	7.82790	0.2558952	0.20358353	2.8618111	20	1 30.5	19.8
162878 2001 FU_{33}	15.2	X	127.22849	4.50394	179.84930	10.54076	0.0988430	0.22595790	2.6696297	20	8 29.4	19.2
162879 2001 FM_{42}	15.8	X	68.94568	6.26610	185.77513	9.23925	0.0964492	0.21578246	2.7529097	20	6 29.3	19.6
162880 2001 FS_{51}	15.7	X	289.43016	157.81770	355.54587	14.02781	0.0953880	0.24304033	2.5430241	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
162881 2001 FT_{51}	14.4	X	62.57269	22.85080	352.29560	13.64813	0.2043809	0.24203791	2.5500408	20	—	—
162882 2001 FD_{58}	18.7	X	47.05634	46.00324	341.18019	6.49722	0.5751533	0.86335796	1.0923005	20	—	—
162883 2001 FM_{68}	15.2	X	270.94045	115.98984	155.69158	12.02899	0.1295306	0.20258786	2.8711801	20	2 17.7	19.5
162884 2001 FR_{73}	16.4	X	264.36961	93.65049	62.05025	4.87908	0.2306558	0.23998119	2.5645899	20	12 15.9	19.2
162885 2001 FW_{84}	16.5	X	110.46488	162.14678	35.63902	3.17948	0.0263782	0.22361853	2.6882161	20	8 23.5	20.1
162886 2001 FT_{88}	16.3	X	296.04354	153.37181	168.10048	3.63098	0.0875663	0.21379687	2.7699280	20	5 29.5	20.0
162887 2001 FD_{93}	15.5	X	335.69233	5.42273	55.29738	7.92496	0.2527899	0.24202166	2.5501549	20	—	—
162888 2001 FJ_{106}	15.3	X	323.50579	100.30673	158.72898	24.89875	0.1325471	0.21035593	2.8000528	20	4 13.9	19.1
162889 2001 FT_{116}	16.1	X	323.72172	72.92411	44.48615	7.84541	0.1262541	0.24414557	2.5353436	20	—	—
162890 2001 FO_{138}	16.4	X	37.31259	14.82832	219.79380	1.09235	0.0201278	0.21754516	2.7380188	20	7 2.2	19.9
162891 2001 FS_{169}	15.9	X	11.82925	309.59980	111.76218	1.83574	0.0921878	0.24350017	2.5398216	20	—	—
162892 2001 GW_{1}	15.6	X	338.98229	140.16121	193.48202	5.88919	0.0220479	0.22204794	2.7008775	20	8 22.7	19.1
162893 2001 GK_{3}	16.5	X	270.02960	173.63534	116.04656	24.64033	0.0626542	0.35793553	1.9645640	20	3 10.1	19.2
162894 2001 HD	15.3	X	313.80165	273.03852	61.16885	13.63623	0.1259512	0.21395241	2.7685854	20	7 8.6	18.7
162895 2001 HR_{4}	14.6	X	257.35247	294.48556	223.02028	12.00133	0.1937735	0.24388668	2.5371374	20	12 14.0	17.6
162896 2001 HG_{11}	15.1	X	145.45330	274.29926	28.23003	13.39377	0.3514372	0.18210681	3.0826101	20	—	—
162897 2001 HB_{15}	15.8	X	318.96444	282.90541	24.80841	3.26592	0.1562767	0.21448522	2.7639985	20	6 4.3	18.9
162898 2001 HK_{22}	16.3	X	133.60415	254.82666	223.17556	20.04714	0.0849197	0.36716806	1.9314914	20	6 11.9	18.8
162899 2001 HB_{27}	15.5	X	86.37792	21.05897	198.89999	13.84897	0.1446377	0.21755906	2.7379022	20	9 1.2	19.7
162900 2001 HG_{31}	15.8	X	265.17712	67.34203	36.55268	6.15551	0.5344426	0.23791372	2.5794259	20	8 25.9	19.9
162901 2001 HF_{46}	16.6	X	40.01787	80.38992	63.35196	3.56220	0.1423113	0.25737191	2.4477212	20	3 11.3	18.9
162902 2001 HM_{62}	16.5	X	255.05476	61.65326	21.49349	19.68267	0.0847894	0.37983911	1.8882939	20	10 15.1	17.8
162903 2001 JV_{2}	18.8	X	338.21585	301.22442	216.90885	47.48739	0.2373988	0.66145221	1.3045791	20	—	—
162904 2001 JV_{10}	15.3	X	186.87680	130.44560	184.05463	9.02177	0.1580648	0.19054401	2.9909273	20	1 20.5	20.4
162905 2001 KV_{5}	15.4	X	116.02865	307.64523	231.24164	13.82587	0.0293056	0.21640520	2.7476258	20	7 29.4	19.6
162906 2001 KY_{10}	14.8	X	139.23479	203.71793	78.61877	17.33515	0.2659005	0.17801648	3.1296510	20	12 31.9	20.4
162907 2001 KJ_{21}	16.4	X	316.85139	93.74334	199.24420	21.20867	0.0698608	0.36357733	1.9441877	20	5 22.4	18.4
162908 2001 KD_{39}	15.1	X	172.63882	81.40211	212.39912	15.95350	0.2016600	0.18386293	3.0629502	20	—	—
162909 2001 KQ_{41}	15.3	X	75.35759	347.01760	211.72916	10.65654	0.0761133	0.21408685	2.7674262	20	7 12.3	19.2
162910 2001 KW_{52}	15.1	X	164.29787	288.88145	3.13587	11.55316	0.3564348	0.18351474	3.0668233	20	—	—
162911 2001 LL_{5}	19.2	X	205.51751	205.12180	281.85980	7.95218	0.3394582	0.74574367	1.2043231	20	—	—
162912 2001 MD_{12}	14.6	X	89.01187	294.69587	79.42217	11.87134	0.2114682	0.17796814	3.1302177	20	1 1.2	18.8
162913 2001 MT_{18}	18.2	X	142.30277	356.10061	170.53668	8.64611	0.5195344	0.68787873	1.2709490	20	9 27.2	19.8
162914 2001 NL_{7}	14.2	X	118.02940	81.05249	302.15194	15.94539	0.1559821	0.18395409	3.0619382	20	2 4.8	18.7
162915 2001 NF_{19}	15.5	X	101.58722	256.55045	83.05302	6.10617	0.1721414	0.17502294	3.1652357	20	—	—
162916 2001 NJ_{20}	14.4	X	66.24500	229.75370	170.49500	27.25715	0.1831775	0.17586537	3.1551196	20	—	—
162917 2001 OW_{1}	14.5	X	94.32678	225.99376	99.85963	9.71180	0.1795305	0.17177021	3.2050698	20	—	—
162918 2001 OX_{5}	14.2	X	49.79579	150.10495	272.73603	13.84907	0.2516738	0.17434920	3.1733848	20	1 3.5	17.3
162919 2001 OM_{6}	14.8	X	95.74379	190.53211	172.41790	15.48976	0.1654115	0.17526258	3.1623498	20	—	—
162920 2001 OF_{9}	14.3	X	126.43611	73.73974	300.24037	15.22480	0.2375664	0.18133627	3.0913364	20	2 10.6	19.3
162921 2001 OL_{11}	15.0	X	144.22476	219.18336	83.47573	4.92614	0.0919281	0.17754710	3.1351645	20	—	—
162922 2001 OY_{13}	20.8	X	212.45761	291.21701	284.23905	10.30004	0.3817241	0.65118038	1.3182623	20	—	—
162923 2001 OH_{24}	14.2	X	85.80109	44.32329	300.39291	22.16495	0.1340721	0.17299020	3.1899831	20	—	—
162924 2001 OS_{27}	15.0	X	130.59347	320.37824	353.01079	12.46825	0.0642880	0.17648237	3.1477616	20	—	—
162925 2001 OG_{33}	14.6	X	177.94053	302.23549	67.43566	10.35346	0.2161251	0.18917680	3.0053205	20	3 24.9	19.9
162926 2001 OB_{36}	16.9	X	236.76322	289.16833	113.00286	42.67414	0.6182812	0.19550155	2.9401483	20	6 4.0	23.5
162927 2001 OF_{49}	15.2	X	59.21035	200.38346	174.03928	15.56512	0.2599155	0.17253529	3.1955878	20	—	—
162928 2001 ON_{76}	15.1	X	213.97742	289.21169	349.90932	5.30193	0.0548524	0.18414821	3.0597860	20	1 7.6	19.7
162929 2001 OO_{80}	15.3	X	122.56568	276.83245	73.25882	9.68724	0.1024363	0.17953357	3.1119954	20	—	—
162930 2001 OA_{82}	14.4	X	116.83271	260.10475	131.37838	14.02807	0.2507748	0.18210971	3.0825774	20	2 28.6	19.2
162931 2001 OP_{82}	15.5	X	120.95179	267.67383	72.57280	2.80595	0.1785691	0.17824539	3.1269710	20	—	—
162932 2001 OP_{84}	15.4	X	118.44359	129.73805	188.16641	3.49781	0.1388585	0.17474319	3.1686131	20	—	—
162933 2001 OR_{88}	14.7	X	136.13323	74.27829	316.51341	9.44902	0.0774381	0.18689077	3.0297781	20	2 24.2	19.1
162934 2001 OD_{93}	14.6	X	95.00202	353.63864	324.57542	20.26739	0.0710258	0.17142864	3.2093258	20	12 29.8	19.6
162935 2001 OO_{98}	14.8	X	112.31102	268.24833	78.16614	10.71114	0.2393356	0.17541765	3.1604859	20	—	—
162936 2001 OD_{102}	14.4	X	83.99274	32.42719	294.35412	11.40544	0.0587096	0.16977341	3.2301518	20	12 23.7	19.2
162937 Prêtre	15.8	X	156.16785	264.20183	109.68316	0.06849	0.2827228	0.18507429	3.0495704	20	3 11.2	21.2
162938 2001 PC_{11}	15.3	X	55.92271	230.37236	114.20895	6.75441	0.1256222	0.16847006	3.2467902	20	12 20.9	19.9
162939 2001 PA_{12}	14.8	X	99.70095	321.20608	36.01516	10.85684	0.2212819	0.17517418	3.1634136	20	—	—
162940 2001 PY_{20}	14.6	X	64.43347	59.98754	334.69856	9.08736	0.0808059	0.17600311	3.1534733	20	—	—
162941 2001 PM_{25}	14.8	X	133.07931	309.05019	351.44612	25.97305	0.1903458	0.17316553	3.1878295	20	—	—
162942 2001 PK_{43}	14.6	X	186.54224	312.89454	297.92372	12.04429	0.2272597	0.17743314	3.1365067	20	—	—
162943 2001 QZ_{18}	14.8	X	76.32201	224.04525	161.47779	10.91091	0.1989504	0.17355165	3.1830995	20	—	—
162944 2001 QH_{34}	14.4	X	110.70267	74.60303	300.96695	7.24847	0.1799773	0.18200441	3.0837662	20	1 24.1	18.7
162945 2001 QO_{35}	14.9	X	121.81048	339.16595	314.34167	3.92909	0.1342187	0.17289384	3.1911682	20	12 28.5	19.9
162946 2001 QS_{38}	14.8	X	132.54263	162.16733	125.16484	17.67304	0.1842272	0.17335747	3.1854761	20	—	—
162947 2001 QY_{38}	14.4	X	113.08078	253.19275	137.81392	10.84791	0.2157187	0.18333018	3.0688811	20	2 18.9	19.0
162948 2001 QD_{43}	15.3	X	66.10772	217.01353	145.79681	2.08091	0.1960371	0.17197961	3.2024676	20	—	—
162949 2001 QW_{44}	14.3	X	77.94226	104.24271	305.74684	10.07066	0.1018716	0.18035873	3.1024962	20	1 14.8	18.3
162950 2001 QK_{47}	14.8	X	94.11438	61.98575	330.90989	11.62500	0.1634871	0.17918584	3.1160201	20	1 25.7	19.1
162951 2001 QU_{55}	15.1	X	125.64843	257.11010	142.66167	11.18798	0.1832569	0.18344657	3.0675830	20	3 10.4	19.9
162952 2001 QC_{62}	14.6	X	73.12554	56.66448	278.69867	3.56733	0.1077879	0.16805307	3.2521588	20	12 26.5	19.5
162953 2001 QY_{63}	14.4	X	51.27657	60.49324	344.36069	9.74527	0.1673688	0.17144288	3.2091480	20	—	—
162954 2001 QB_{93}	14.6	X	113.76286	193.37605	215.95497	14.98134	0.1624674	0.18040177	3.1020028	20	2 29.9	19.5
162955 2001 QA_{106}	14.3	X	109.42905	90.59012	246.70005	19.05237	0.1523864	0.17381418	3.1798935	20	—	—
162956 2001 QF_{119}	15.1	X	78.79509	208.57565	194.57993	12.24075	0.1855610	0.17573532	3.1566761	20	1 16.8	19.4
162957 2001 QU_{122}	15.0	X	30.44978	29.77959	348.71012	10.08629	0.1417098	0.16806277	3.2520337	20	—	—
162958 2001 QL_{132}	15.2	X	176.68433	109.08669	200.35989	8.58787	0.0503529	0.17951822	3.1121727	20	1 2.4	19.9
162959 2001 QW_{143}	15.4	X	111.10106	161.55738	287.62658	0.73461	0.3173662	0.18347539	3.0672617	20	5 5.7	20.4
162960 2001 QX_{160}	14.5	X	142.05985	334.60847	326.09785	10.84498	0.0726909	0.17402703	3.1773002	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
162961 2001 QC_{165}	15.4	X	206.98915	298.02693	49.84277	4.89190	0.2111248	0.19063542	2.9899710	20	3 18.8	20.5
162962 2001 QT_{171}	14.8	X	101.18212	40.65916	3.52374	10.50730	0.1067493	0.18102417	3.0948885	20	2 10.1	19.2
162963 2001 QZ_{172}	14.5	X	4.28896	170.00995	286.05450	7.91178	0.0781074	0.17463475	3.1699246	20	—	—
162964 2001 QM_{206}	15.0	X	101.15734	76.75593	346.67470	2.70064	0.2832574	0.18052452	3.1005965	20	3 23.4	19.6
162965 2001 QS_{207}	14.9	X	77.74691	58.76394	354.80521	8.80917	0.0827176	0.17902626	3.1178716	20	1 18.2	19.2
162966 2001 QR_{208}	15.4	X	97.38255	224.99168	110.79750	2.11391	0.1229891	0.17264160	3.1942759	20	—	—
162967 2001 QK_{219}	14.5	X	2.53817	107.15549	329.58053	11.81250	0.1240767	0.17127521	3.2112420	20	—	—
162968 2001 QT_{226}	14.8	X	41.20977	83.12074	313.32918	10.25930	0.0723292	0.16983013	3.2294326	20	—	—
162969 2001 QT_{232}	15.0	X	34.16807	330.42053	345.00630	15.55421	0.1318071	0.15862419	3.3797904	20	10 12.6	19.7
162970 2001 QK_{240}	15.1	X	84.15857	295.32802	165.96086	15.44613	0.2557000	0.18228079	3.0806482	20	4 20.1	19.6
162971 2001 QU_{256}	14.6	X	79.55158	200.80264	169.34293	23.11905	0.1307530	0.17111769	3.2132124	20	—	—
162972 2001 QL_{272}	14.9	X	31.22908	98.09569	355.02400	16.54187	0.0560228	0.18009916	3.1054765	20	—	—
162973 2001 QV_{273}	14.8	X	184.84832	277.54169	2.52903	17.78731	0.1337796	0.17848705	3.1241479	20	—	—
162974 2001 QC_{276}	14.6	X	44.96923	27.66560	358.56416	21.32063	0.0817765	0.17115555	3.2127386	20	—	—
162975 2001 QS_{279}	15.0	X	103.98557	16.55690	19.58047	19.02167	0.2998288	0.17811218	3.1285299	20	3 4.8	20.0
162976 2001 QJ_{288}	14.3	X	277.53717	273.71605	286.53258	15.74958	0.0936522	0.17656631	3.1467638	20	—	—
162977 2001 QY_{294}	14.9	X	44.09843	20.67729	23.26590	3.75361	0.1849007	0.17079668	3.2172374	20	—	—
162978 Helenhart	15.2	X	85.23102	260.91404	72.92655	2.87859	0.0865943	0.16903814	3.2395119	20	—	—
162979 2001 RA_{12}	18.2	X	177.26964	326.07213	311.58992	17.08882	0.5441834	0.33901741	2.0369860	20	—	—
162980 2001 RR_{17}	16.7	X	72.12252	351.43547	177.62612	30.39367	0.4887108	0.50918037	1.5531794	20	8 8.3	19.5
162981 2001 RQ_{30}	15.0	X	80.41871	266.32571	105.95480	2.15907	0.2075042	0.17269457	3.1936227	20	—	—
162982 2001 RM_{50}	15.4	X	121.52114	224.87698	221.52035	10.20586	0.0476844	0.18943170	3.0026240	20	4 12.4	19.6
162983 2001 RP_{53}	14.8	X	10.93530	60.49148	8.04272	24.00710	0.1709715	0.16915733	3.2379900	20	—	—
162984 2001 RM_{104}	14.7	X	325.20931	176.38982	343.33261	10.56958	0.0914559	0.17889247	3.1194259	20	—	—
162985 2001 RH_{110}	15.1	X	220.40093	88.06577	145.42360	5.80917	0.1209124	0.17553755	3.1590466	20	—	—
162986 2001 RC_{113}	14.9	X	101.79782	189.90600	170.04595	11.56749	0.0711916	0.17439240	3.1728608	20	—	—
162987 2001 RC_{125}	15.0	X	58.68035	1.58225	49.52974	2.45455	0.1878823	0.17290917	3.1909796	20	—	—
162988 2001 RN_{128}	14.7	X	95.04014	14.05497	16.88067	9.63012	0.0904721	0.17666827	3.1455531	20	1 14.6	19.2
162989 2001 SJ_{35}	15.1	X	172.78542	293.31942	40.99467	5.93022	0.1522112	0.17996230	3.1070509	20	2 4.7	20.1
162990 2001 SR_{54}	14.7	X	115.61465	331.33159	41.42919	13.81606	0.2408093	0.17548873	3.1596325	20	2 8.7	19.7
162991 2001 SY_{69}	16.6	X	42.11895	253.43860	79.70369	6.69036	0.2231855	0.31715105	2.1295701	20	—	—
162992 2001 SJ_{73}	14.5	X	270.93190	247.05265	333.36798	15.90872	0.0844742	0.17940697	3.1134592	20	—	—
162993 2001 SY_{88}	15.3	X	66.33026	155.75034	235.68631	2.58082	0.0847913	0.17327642	3.1864693	20	—	—
162994 2001 SN_{92}	15.0	X	101.68890	232.04356	180.78571	10.91097	0.0533166	0.18111696	3.0938314	20	2 7.9	19.5
162995 2001 SN_{95}	17.7	X	115.90434	304.65496	342.31980	4.31186	0.1992510	0.32603842	2.0906927	20	—	—
162996 2001 SQ_{98}	15.1	X	228.43307	237.22124	338.37858	4.08403	0.1403877	0.17202926	3.2018514	20	—	—
162997 2001 SP_{111}	14.3	X	66.33756	212.32498	223.76252	25.68383	0.1594506	0.17245711	3.1965535	20	1 29.7	18.9
162998 2001 SK_{162}	17.9	X	311.34851	186.40114	285.38067	1.68179	0.4749783	0.36895775	1.9252404	20	—	—
162999 2001 SW_{167}	15.0	X	52.15079	55.31697	21.12343	2.42654	0.1842407	0.17212073	3.2007169	20	1 20.2	18.7
163000 2001 SW_{169}	19.2	X	195.00845	284.79772	8.42512	3.55393	0.0514697	0.70661899	1.2483773	20	—	—
163001 2001 SE_{170}	18.2	X	29.11418	124.89724	216.54808	19.97354	0.4534310	0.31850102	2.1235484	20	—	—
163002 2001 SX_{175}	15.0	X	102.22853	333.13970	83.67053	6.53875	0.1546910	0.17779996	3.1321913	20	3 3.9	19.5
163003 2001 SN_{226}	15.6	X	222.25476	267.80558	52.66716	4.20081	0.1203908	0.18537135	3.0463115	20	3 3.1	20.4
163004 2001 SK_{234}	14.5	X	333.21808	160.29953	187.24557	9.91633	0.0910977	0.15016461	3.5055621	20	8 21.3	19.1
163005 2001 SX_{265}	16.8	X	16.94271	251.39445	18.65832	4.57255	0.2031960	0.30558049	2.1829928	20	8 28.1	18.4
163006 2001 SY_{275}	14.5	X	45.56332	155.30349	261.08347	24.99467	0.1816030	0.17174909	3.2053325	20	—	—
163007 2001 SD_{308}	15.0	X	122.44237	341.23127	66.72869	2.40425	0.0246973	0.18227933	3.0806647	20	2 26.2	19.3
163008 2001 ST_{324}	14.8	X	39.68925	349.07936	320.93734	10.09023	0.0273786	0.15879054	3.3774296	20	10 1.2	19.6
163009 2001 TS_{35}	16.5	X	223.77333	91.43364	344.60037	6.22479	0.0958878	0.30046412	2.2077047	20	8 3.2	19.2
163010 2001 TM_{45}	14.3	X	301.86070	136.18087	238.00910	8.88868	0.1075486	0.14722795	3.5520238	20	8 5.3	19.2
163011 2001 TK_{75}	15.1	X	113.05184	322.68110	46.62084	5.51646	0.1917818	0.17299623	3.1899090	20	1 23.5	19.8
163012 2001 TC_{220}	14.5	X	89.70854	245.97653	353.74592	9.33144	0.0067519	0.15166582	3.4823913	20	9 8.6	19.3
163013 2001 TG_{230}	14.3	X	331.56871	300.11193	72.29253	9.55962	0.1953376	0.15486114	3.4343226	20	9 23.6	18.2
163014 2001 UA_{5}	17.5	X	267.79667	27.67214	58.64708	9.93722	0.4454041	0.41251399	1.7872155	20	9 12.6	18.3
163015 2001 UX_{16}	21.9	X	327.58642	254.53742	213.40848	10.61699	0.3685392	0.58440985	1.4168516	20	—	—
163016 2001 UD_{52}	16.5	X	196.94295	39.55152	129.60648	2.53716	0.1013921	0.31217087	2.1521596	20	11 9.7	19.0
163017 2001 UP_{79}	17.6	X	312.69398	191.31641	201.43175	1.89464	0.1483636	0.31063208	2.1592612	20	10 22.9	18.9
163018 2001 UY_{97}	14.9	X	240.48106	214.00765	48.14571	4.54090	0.1398045	0.17642018	3.1485013	20	1 11.2	20.0
163019 2001 UB_{116}	15.2	X	234.34762	269.38711	82.17880	2.84513	0.1661002	0.18818765	3.0158424	20	4 16.4	20.0
163020 2001 VT_{47}	16.6	X	236.31391	130.26663	279.75296	2.73751	0.0932000	0.29806576	2.2195316	20	7 11.2	19.1
163021 2001 WE_{14}	16.5	X	135.10289	317.62326	140.59733	8.26099	0.1291936	0.28658398	2.2784252	20	5 23.6	19.8
163022 2001 WS_{28}	16.9	X	302.35537	302.48848	102.99929	4.48070	0.0961307	0.30868930	2.1683115	20	10 25.7	18.8
163023 2001 XU_{1}	19.3	X	100.91951	208.51810	69.70094	27.15361	0.5464245	1.38437269	0.7973225	20	—	—
163024 2001 XF_{10}	15.8	X	21.97396	137.08326	58.92524	7.84244	0.0439330	0.28459205	2.2890444	20	4 18.5	18.3
163025 2001 XG_{10}	16.8	X	275.39351	25.68151	10.04474	4.61848	0.1278502	0.30091097	2.2055185	20	8 13.6	19.0
163026 2001 XR_{30}	21.0	X	118.55691	294.42428	247.89611	11.85951	0.3651758	0.66723928	1.2970249	20	10 2.7	22.6
163027 2001 XX_{56}	16.7	X	233.52225	358.86255	81.92632	4.73721	0.1103286	0.30158320	2.2022398	20	8 21.7	19.3
163028 2001 XQ_{69}	17.5	X	296.82915	253.82393	134.44951	3.22943	0.0924562	0.30666331	2.1778510	20	9 15.7	19.4
163029 2001 XH_{104}	16.9	X	50.08328	244.18489	300.44557	4.09168	0.1917054	0.28733062	2.2744764	20	6 6.9	19.0
163030 2001 XM_{107}	17.2	X	21.46500	60.07799	287.89032	0.69964	0.1912128	0.31341931	2.1464407	20	12 29.0	19.5
163031 2001 XW_{117}	15.9	X	233.10432	8.47243	58.51997	4.49722	0.0851546	0.29623326	2.2286755	20	8 3.6	18.6
163032 2001 XG_{119}	16.4	X	112.30080	110.22103	11.38562	5.80303	0.1021367	0.28386509	2.2929508	20	5 21.5	19.3
163033 2001 XX_{142}	16.3	X	336.66115	145.09329	71.00492	0.63486	0.1900047	0.28170333	2.3046663	20	2 11.7	18.3
163034 2001 XM_{175}	16.5	X	136.04924	58.60400	111.55407	3.92713	0.0581664	0.29707909	2.2244432	20	8 28.9	19.4
163035 2001 XK_{176}	16.8	X	282.03809	320.19553	110.27476	2.74837	0.0943890	0.30575036	2.1821842	20	10 25.3	18.8
163036 2001 XZ_{179}	16.4	X	295.69021	138.09810	238.26190	3.42579	0.1136240	0.30022604	2.2088716	20	8 17.8	18.6
163037 2001 XU_{180}	16.6	X	310.96458	178.89238	238.98541	3.83613	0.0997340	0.30804728	2.1713231	20	11 28.4	18.1
163038 2001 XP_{181}	16.5	X	336.41537	230.90114	111.28603	5.50088	0.1408762	0.30123795	2.2039222	20	9 21.1	18.1
163039 2001 XG_{189}	17.4	X	39.62624	286.31405	224.93858	0.62727	0.1419681	0.27895701	2.3197679	20	3 16.1	19.2
163040 2001 XV_{196}	16.6	X	261.85058	126.30924	275.22589	5.02478	0.2061088	0.29864135	2.2166788	20	7 15.6	19.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
163041 2001 XR_{203}	17.5	X	337.28064	180.37687	206.20887	4.40817	0.1498891	0.31209102	2.1525266	20	12 7.5	19.1
163042 2001 XH_{205}	16.6	X	295.86786	239.01268	342.85560	1.96447	0.1212985	0.27611755	2.3356443	20	1 5.9	19.6
163043 2001 XC_{211}	16.6	X	328.13268	288.10627	118.99197	5.36336	0.0917465	0.31067000	2.1590855	20	12 14.4	18.6
163044 2001 XB_{213}	16.4	X	358.15559	340.45147	165.89191	5.77448	0.1587677	0.27189526	2.3597625	20	—	—
163045 2001 XZ_{214}	16.9	X	259.02975	56.17656	327.56104	4.18753	0.1435622	0.29700947	2.2247908	20	6 26.1	19.6
163046 2001 XR_{233}	16.8	X	39.00221	203.47604	73.70150	4.02346	0.0919624	0.30279702	2.1963505	20	9 27.4	19.2
163047 2001 XS_{237}	16.4	X	29.75156	161.91055	52.53892	2.09808	0.0736045	0.29124730	2.2540391	20	5 29.3	18.7
163048 2001 XJ_{240}	16.7	X	66.68032	300.91219	53.68892	3.15333	0.1382099	0.31723115	2.1292116	20	—	—
163049 2001 XS_{240}	16.0	X	240.56156	122.84083	281.95464	7.04149	0.0933092	0.29571750	2.2312661	20	7 9.0	18.8
163050 2001 XN_{252}	16.9	X	288.42356	255.53158	143.93368	4.66247	0.0738546	0.30132463	2.2034995	20	9 19.7	18.9
163051 2001 YJ_{4}	16.3	X	108.05713	322.36751	247.83064	9.28432	0.5693961	0.28803825	2.2707498	20	10 9.1	21.3
163052 2001 YJ_{9}	16.3	X	69.32707	221.68583	313.27312	6.54347	0.0978146	0.28785881	2.2716933	20	6 7.8	18.9
163053 2001 YF_{11}	16.5	X	242.70555	339.00435	219.05844	1.62611	0.1736055	0.25939541	2.4349751	20	—	—
163054 2001 YL_{18}	16.5	X	208.04170	83.47820	337.41366	7.25108	0.0745014	0.29161012	2.2521690	20	6 22.5	19.5
163055 2001 YL_{61}	16.5	X	211.20913	152.00360	287.49619	5.63432	0.1028570	0.29685632	2.2255559	20	7 20.1	19.2
163056 2001 YM_{70}	16.8	X	240.49855	80.56723	307.90107	6.04591	0.1230986	0.29428021	2.2385253	20	6 11.0	19.7
163057 2001 YF_{74}	16.6	X	153.12464	114.06490	338.68152	6.41353	0.0412870	0.28780920	2.2719543	20	5 26.7	19.6
163058 2001 YV_{78}	16.4	X	160.94968	147.98216	306.13430	7.62859	0.0674728	0.29023053	2.2593004	20	6 10.7	19.4
163059 2001 YN_{90}	16.8	X	104.32771	16.59829	107.08174	3.73464	0.0236296	0.28500354	2.2868405	20	5 4.5	19.5
163060 2001 YC_{96}	16.4	X	218.73373	313.91230	60.82459	6.61391	0.1213144	0.28856173	2.2680027	20	4 29.4	19.7
163061 2001 YV_{98}	17.5	X	314.48421	242.73923	138.21089	2.94487	0.1072054	0.30617512	2.1801654	20	10 7.9	19.3
163062 2001 YC_{105}	16.8	X	334.02374	281.62397	117.28779	3.59321	0.1484727	0.30965431	2.1638042	20	12 19.2	18.4
163063 2001 YM_{108}	16.2	X	307.12803	325.50100	251.84155	5.68910	0.0634488	0.27426607	2.3461440	20	1 21.1	19.3
163064 2001 YN_{117}	16.9	X	292.79200	0.43145	59.29367	1.83604	0.1462719	0.30527149	2.1844656	20	10 22.3	18.4
163065 2001 YC_{131}	16.6	X	66.12042	193.08898	37.29246	5.46620	0.0474634	0.29549429	2.2323896	20	8 21.0	19.2
163066 2001 YH_{143}	17.0	X	312.90506	29.73501	182.00714	0.35253	0.1611865	0.27732462	2.3288621	20	1 7.3	19.9
163067 2002 AP_{3}	19.8	X	75.06268	117.68144	87.42899	7.59986	0.5880227	0.33746009	2.0432481	20	9 29.5	24.0
163068 2002 AP_{5}	15.8	X	260.26768	106.16599	343.53487	5.38504	0.1046578	0.30267010	2.1969645	20	10 10.9	18.0
163069 2002 AD_{6}	16.4	X	37.41036	257.43316	279.19211	3.62672	0.0879245	0.28112354	2.3078340	20	4 13.7	18.7
163070 2002 AO_{7}	18.3	X	227.61711	240.62268	278.05063	14.53547	0.6348255	0.19850732	2.9103934	20	9 16.3	24.5
163071 2002 AD_{8}	16.8	X	242.73924	298.33725	128.26741	4.05398	0.1878439	0.29873320	2.2162244	20	7 30.3	19.3
163072 2002 AD_{12}	16.5	X	87.85545	206.31803	308.16875	6.68028	0.0427282	0.28642929	2.2792454	20	5 25.9	19.3
163073 2002 AX_{12}	17.1	X	25.24001	329.20255	159.86204	2.49848	0.1271314	0.27184054	2.3600792	20	1 13.8	19.1
163074 2002 AD_{14}	15.8	X	45.25677	141.99507	42.12191	1.71809	0.1923904	0.27817810	2.3240962	20	5 27.7	17.8
163075 2002 AP_{17}	16.7	X	2.48053	226.45041	144.89088	1.16620	0.1783036	0.30946787	2.1646732	20	—	—
163076 2002 AU_{19}	16.5	X	20.02705	186.16858	49.54475	4.62448	0.1176963	0.28851120	2.2682674	20	6 18.8	18.6
163077 2002 AP_{20}	15.6	X	224.72702	126.48620	252.42870	5.46062	0.1322165	0.28915506	2.2648991	20	5 8.9	18.9
163078 2002 AF_{21}	16.3	X	305.00375	60.37220	318.03210	5.93778	0.1769073	0.30188409	2.2007763	20	9 1.7	17.7
163079 2002 AR_{21}	16.4	X	316.39013	259.24543	123.95660	5.31049	0.2081971	0.30362688	2.1923467	20	10 15.5	17.5
163080 2002 AA_{28}	16.6	X	98.20265	139.66098	7.28526	3.97792	0.1256595	0.28614798	2.2807390	20	6 12.9	19.5
163081 2002 AG_{29}	18.4	X	327.08864	43.87784	212.86085	11.49981	0.2032629	0.87006044	1.0866836	20	—	—
163082 2002 AN_{39}	16.7	X	43.92550	1.65509	201.47600	3.21345	0.1135124	0.28520601	2.2857581	20	6 11.9	18.9
163083 2002 AF_{51}	16.8	X	241.59817	280.28575	132.03242	3.53740	0.1338908	0.29587305	2.2304840	20	7 15.5	19.6
163084 2002 AZ_{53}	16.3	X	269.56549	162.99207	123.53062	7.11747	0.1097979	0.28102575	2.3083694	20	3 2.1	19.4
163085 2002 AC_{62}	16.4	X	199.32083	265.93369	150.87167	1.66426	0.2117537	0.28981583	2.2614552	20	5 31.3	19.9
163086 2002 AS_{71}	16.0	X	319.31211	143.56077	91.37050	6.58952	0.1009947	0.28046885	2.3114240	20	2 29.1	18.7
163087 2002 AN_{74}	17.0	X	356.17543	184.97607	354.02815	2.32962	0.1340947	0.27598484	2.3363930	20	2 1.9	19.1
163088 2002 AO_{74}	14.8	X	337.18296	282.95889	299.57481	10.96227	0.1003108	0.17305845	3.1891443	20	3 14.6	19.1
163089 2002 AU_{77}	16.3	X	254.71384	171.72792	94.45216	7.74817	0.0821774	0.27499251	2.3420103	20	1 20.8	19.6
163090 2002 AK_{80}	16.5	X	99.96998	146.32329	349.64665	3.30530	0.1258664	0.28631723	2.2798401	20	5 30.1	19.5
163091 2002 AS_{80}	16.4	X	30.07206	259.43696	318.70467	5.62789	0.0949420	0.28830991	2.2693231	20	6 6.7	18.7
163092 2002 AR_{81}	16.6	X	198.37464	294.97986	153.75184	6.48709	0.1131743	0.29614098	2.2291385	20	7 16.6	19.8
163093 2002 AT_{100}	16.5	X	129.64375	165.22052	355.21944	3.12614	0.0467034	0.29262223	2.2469729	20	8 4.9	19.3
163094 2002 AU_{100}	16.2	X	215.00510	138.02780	78.80411	4.31222	0.1175930	0.25851007	2.4405314	20	—	—
163095 2002 AE_{102}	16.9	X	285.21255	238.63214	337.96384	1.65892	0.1438233	0.26969752	2.3725648	20	—	—
163096 2002 AQ_{105}	16.3	X	315.47416	70.26819	312.50018	2.53828	0.1158880	0.30291528	2.1957789	20	10 8.6	17.9
163097 2002 AJ_{106}	16.4	X	329.54519	257.57414	96.72897	3.53938	0.1971567	0.30157944	2.2022582	20	9 27.0	17.6
163098 2002 AU_{106}	16.0	X	204.60982	141.11356	113.91572	7.88864	0.0958322	0.26381212	2.4077214	20	—	—
163099 2002 AX_{107}	16.2	X	299.51779	111.18816	302.17226	2.97720	0.1051253	0.30444080	2.1884375	20	10 26.7	18.2
163100 2002 AA_{108}	16.7	X	284.75769	264.51116	117.51786	2.34293	0.1706692	0.29855016	2.2171301	20	7 29.2	18.9
163101 2002 AU_{112}	15.9	X	230.96715	288.16211	319.54775	9.62871	0.1132335	0.26541643	2.3980092	20	—	—
163102 2002 AQ_{125}	12.7	X	233.38166	324.33746	143.79152	6.26437	0.0503622	0.08415921	5.1570533	20	9 8.3	19.6
163103 2002 AP_{126}	16.2	X	278.76540	148.89756	130.07668	4.87626	0.2336474	0.27963940	2.3159925	20	2 16.2	19.6
163104 2002 AO_{129}	17.1	X	294.51411	266.65003	125.80729	3.16752	0.1518754	0.30134109	2.2034193	20	9 8.9	18.7
163105 2002 AC_{139}	16.0	X	336.10171	63.92549	350.18363	4.80745	0.1113427	0.30942432	2.1648763	20	—	—
163106 2002 AE_{140}	17.0	X	113.35597	316.75247	213.88924	2.04998	0.0566225	0.29560805	2.2318168	20	7 28.3	19.8
163107 2002 AN_{143}	16.5	X	197.04658	91.26247	144.47929	3.04499	0.1398767	0.25986796	2.4320223	20	—	—
163108 2002 AS_{152}	16.4	X	124.49995	136.15372	324.75834	5.94312	0.0999529	0.28282764	2.2985546	20	5 6.6	19.5
163109 2002 AR_{156}	16.9	X	19.73678	27.98028	153.49122	3.34174	0.0947917	0.27973906	2.3154424	20	3 23.2	18.9
163110 2002 AQ_{162}	16.8	X	305.00143	241.38016	209.52160	1.51519	0.0982350	0.30882797	2.1676623	20	—	—
163111 2002 AC_{166}	16.6	X	306.99125	43.68072	156.02049	6.85854	0.0720689	0.26838586	2.3802887	20	—	—
163112 2002 AD_{172}	16.6	X	308.78521	277.88267	314.17743	4.05201	0.1182551	0.27526141	2.3404848	20	2 4.9	19.4
163113 2002 AJ_{175}	16.4	X	259.45630	81.28265	129.69306	2.19130	0.1341030	0.26346690	2.4098241	20	—	—
163114 2002 AR_{177}	16.5	X	264.55390	252.20371	332.97496	3.64911	0.1581379	0.26529519	2.3987397	20	—	—
163115 2002 AF_{191}	16.3	X	303.22086	257.68338	112.09582	7.72189	0.1349861	0.29656599	2.2270082	20	8 22.7	18.2
163116 2002 AE_{197}	17.1	X	345.91503	280.54625	318.71039	1.64332	0.0382728	0.28469205	2.2885083	20	4 21.2	19.4
163117 2002 AK_{197}	17.2	X	238.09865	268.53868	139.08520	4.63365	0.2036620	0.29446734	2.2375768	20	6 25.8	20.4
163118 2002 AS_{197}	15.9	X	288.77537	317.75083	51.21994	10.48745	0.2227482	0.29881891	2.2158006	20	7 5.8	18.2
163119 Timmckay	16.9	X	307.67282	304.53743	346.53180	2.84411	0.0826667	0.28690744	2.2767124	20	4 30.8	19.5
163120 2002 BW_{1}	16.2	X	241.18091	17.90922	193.16745	3.57753	0.1242653	0.25862948	2.4397802	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
163121 2002 BY_9	16.4	X	54.75629	50.86543	69.91922	8.06772	0.0815700	0.27511349	2.3413237	20	2 27.4	19.0
163122 2002 BL_{11}	16.7	X	213.56381	292.56237	140.77476	6.92566	0.0481279	0.29119952	2.2542857	20	7 19.5	19.6
163123 2002 BM_{15}	16.2	X	321.20357	222.65369	199.35280	2.77642	0.0772356	0.30731919	2.1747513	20	12 21.8	18.2
163124 2002 BC_{22}	16.7	X	230.45219	39.08971	12.99114	5.73691	0.1609608	0.29419733	2.2389457	20	6 28.6	20.0
163125 2002 BN_{29}	16.0	X	219.62449	353.24891	40.42029	7.48999	0.1092556	0.28881906	2.2666553	20	5 24.8	19.1
163126 2002 BO_{29}	15.9	X	144.44814	40.33833	50.94933	7.09445	0.1363746	0.28595181	2.2817820	20	5 22.2	19.0
163127 2002 BB_{30}	15.4	X	66.96255	151.87706	76.79011	14.89511	0.2560562	0.22969078	2.6406267	20	9 18.2	19.6
163128 2002 CN	15.8	X	207.27908	238.58672	10.58576	9.90346	0.2198518	0.26050064	2.4280830	20	—	—
163129 2002 CH_1	16.7	X	281.98241	358.00023	34.72092	5.18680	0.1530888	0.29744184	2.2226343	20	8 16.2	18.9
163130 2002 CB_5	16.3	X	320.31919	191.98839	344.38194	3.16571	0.1220216	0.26868616	2.3785148	20	—	—
163131 2002 CF_6	16.0	X	351.87888	231.47982	339.01564	6.51041	0.1168428	0.27536977	2.3398708	20	3 12.5	18.1
163132 2002 CU_{11}	18.5	X	138.44415	110.53788	157.75401	48.77983	0.2952601	0.73173111	1.2196495	20	—	—
163133 2002 CV_{13}	16.6	X	328.25224	198.16202	331.94228	6.47047	0.1353523	0.26609233	2.3939467	20	—	—
163134 2002 CM_{16}	16.7	X	87.84526	161.61018	323.83313	5.46161	0.1076588	0.28316462	2.2967306	20	4 22.8	19.4
163135 2002 CT_{22}	12.6	X	232.57280	148.37181	337.86774	6.70579	0.0345579	0.08484995	5.1290271	20	9 26.9	19.6
163136 2002 CX_{27}	16.8	X	239.74852	43.98347	347.28744	6.12210	0.2007265	0.29353834	2.2422954	20	6 4.3	20.1
163137 2002 CY_{28}	17.1	X	317.89928	352.13065	48.11010	5.96036	0.1404728	0.30535269	2.1840784	20	11 14.4	18.7
163138 2002 CA_{37}	16.1	X	211.12343	101.26109	145.35076	2.21286	0.1088037	0.26057382	2.4276283	20	—	—
163139 2002 CQ_{39}	16.4	X	158.00862	95.00574	350.09521	5.54329	0.1219341	0.28421688	2.2910583	20	5 26.8	19.8
163140 2002 CU_{47}	16.4	X	179.23790	174.89401	274.06626	6.94386	0.0831539	0.28986488	2.2612000	20	6 26.2	19.4
163141 2002 CS_{50}	17.0	X	324.03776	238.90070	126.32864	1.29631	0.1228158	0.29845019	2.2176252	20	9 28.8	18.5
163142 2002 CD_{51}	16.7	X	315.68781	198.12675	352.45160	1.93327	0.1560341	0.26791368	2.3830846	20	—	—
163143 2002 CH_{56}	16.4	X	251.82293	76.91492	163.25325	4.27579	0.0700310	0.26438124	2.4042647	20	—	—
163144 2002 CO_{80}	16.3	X	293.62291	86.50269	138.66761	6.95381	0.0676660	0.26995508	2.3710555	20	1 15.1	19.3
163145 2002 CS_{88}	16.9	X	189.85107	90.49771	332.37288	2.07994	0.1449194	0.28785968	2.2716887	20	5 31.4	20.2
163146 2002 CS_{92}	16.8	X	264.24083	195.01197	11.21629	1.82277	0.1881133	0.26174640	2.4203727	20	—	—
163147 2002 CK_{95}	16.5	X	192.19624	106.56483	149.88757	6.28838	0.1011658	0.25787539	2.4445342	20	—	—
163148 2002 CQ_{95}	17.4	X	37.24183	7.13710	137.52850	0.70594	0.1674263	0.27408470	2.3471789	20	3 3.6	19.0
163149 2002 CV_{106}	16.2	X	219.89891	47.57036	158.07442	6.34793	0.0713685	0.25363516	2.4717037	20	—	—
163150 2002 CE_{109}	16.1	X	196.10387	159.63011	141.23700	6.84189	0.1373479	0.26534475	2.3984410	20	1 4.0	19.7
163151 2002 CW_{111}	16.2	X	190.07476	141.11966	139.79559	8.14060	0.1227797	0.25989401	2.4318598	20	—	—
163152 2002 CQ_{112}	16.0	X	277.21741	190.41634	3.32021	8.27327	0.1388925	0.25868347	2.4394407	20	—	—
163153 Takuyaonishi	16.1	X	203.40670	285.63913	320.34981	11.21802	0.1711569	0.25785020	2.4446934	20	—	—
163154 2002 CE_{123}	15.7	X	201.95584	357.95371	307.61830	13.09365	0.1457373	0.26945524	2.3739868	20	1 16.4	19.3
163155 2002 CL_{130}	12.5	X	268.98825	275.71418	171.97622	4.39442	0.0251519	0.08438084	5.1480191	20	9 27.2	19.4
163156 2002 CX_{130}	16.9	X	206.08266	135.27336	263.24767	2.99799	0.0995964	0.28685821	2.2769729	20	5 17.2	20.1
163157 2002 CY_{130}	16.4	X	224.02471	47.59123	229.44723	0.62566	0.1588393	0.26796468	2.3827822	20	—	—
163158 2002 CS_{136}	16.4	X	4.85632	297.79485	233.15210	5.87880	0.0504277	0.27544476	2.3394461	20	2 10.2	19.2
163159 2002 CX_{136}	16.6	X	244.20612	211.94151	218.46145	3.30764	0.0922870	0.29775210	2.2210900	20	8 19.9	19.1
163160 2002 CM_{146}	16.5	X	334.26686	359.68066	171.48241	5.31190	0.1666367	0.26654453	2.3912384	20	—	—
163161 2002 CE_{152}	16.1	X	249.95598	146.23390	75.04865	2.29161	0.1343941	0.25985174	2.4321235	20	—	—
163162 2002 CG_{159}	16.6	X	165.15579	280.13638	335.04727	3.06781	0.1437315	0.25258926	2.4785221	20	—	—
163163 2002 CB_{165}	16.5	X	267.44514	218.95358	354.74060	6.61726	0.0680661	0.26491786	2.4010169	20	—	—
163164 2002 CC_{169}	16.4	X	351.58614	160.23630	357.78699	6.59341	0.1422912	0.26858651	2.3791031	20	—	—
163165 2002 CC_{177}	16.3	X	274.87684	189.47728	95.31980	3.56717	0.2204204	0.27841404	2.3227829	20	2 22.1	19.6
163166 2002 CX_{177}	17.0	X	189.91940	245.08731	331.45463	0.48152	0.1277050	0.25422523	2.4678776	20	12 17.4	20.3
163167 2002 CY_{178}	16.9	X	300.90769	200.10071	2.94875	2.58129	0.1234180	0.26891530	2.3771634	20	—	—
163168 2002 CL_{195}	16.9	X	169.02602	290.80624	350.65836	1.07546	0.1763456	0.25923847	2.4359577	20	—	—
163169 2002 CX_{199}	16.9	X	318.42047	278.88621	41.13377	2.43134	0.0200934	0.28925914	2.2643558	20	7 11.9	19.3
163170 2002 CQ_{218}	16.1	X	204.31768	211.37974	88.68633	3.12775	0.1049699	0.26577591	2.3958464	20	1 10.4	19.7
163171 2002 CU_{220}	16.9	X	38.25335	112.85332	23.35079	1.89831	0.1241083	0.27212584	2.3584293	20	2 20.2	19.1
163172 2002 CV_{225}	16.7	X	214.34354	57.36031	17.70491	5.04927	0.1120189	0.29470165	2.2363907	20	7 18.3	19.8
163173 2002 CX_{233}	16.0	X	137.70650	326.20453	273.43052	5.25507	0.1448908	0.24656409	2.5187371	20	11 21.9	20.0
163174 2002 CX_{236}	15.6	X	82.58049	324.15875	165.31645	23.73076	0.1703604	0.27618370	2.3352714	20	5 10.2	18.9
163175 2002 CB_{239}	16.8	X	55.82210	290.14571	215.00633	2.42174	0.1518039	0.27633668	2.3344094	20	4 9.5	19.0
163176 2002 CL_{241}	16.4	X	75.66367	232.43462	225.85801	5.68328	0.0580709	0.27349001	2.3505802	20	2 18.6	19.3
163177 2002 CM_{242}	16.4	X	152.24226	149.99136	289.40736	7.10526	0.1231733	0.28325042	2.2962668	20	5 12.3	19.7
163178 2002 CU_{247}	16.2	X	337.66431	183.03448	336.79532	1.95419	0.1078417	0.26490187	2.4011135	20	—	—
163179 2002 CF_{252}	16.4	X	344.65493	228.88859	337.43637	5.89374	0.0918191	0.27856496	2.3219439	20	2 26.5	18.8
163180 2002 CU_{270}	16.8	X	263.82349	281.97987	333.82263	1.76792	0.1592957	0.27196768	2.3593436	20	1 11.3	20.4
163181 2002 CL_{272}	16.3	X	198.24371	188.57696	74.76894	7.58977	0.0844706	0.25981344	2.4323625	20	—	—
163182 2002 CZ_{278}	16.3	X	201.43473	284.06397	318.73618	9.84370	0.1364341	0.25827989	2.4419812	20	—	—
163183 2002 CZ_{282}	16.3	X	83.31892	4.66424	93.34031	6.09244	0.1127646	0.27471018	2.3436147	20	3 15.4	19.0
163184 2002 CZ_{299}	16.2	X	197.55556	147.18259	143.65527	5.18477	0.1340054	0.26775488	2.3840267	20	—	—
163185 2002 DJ_2	16.4	X	84.10337	73.53543	166.78816	11.92104	0.2662816	0.23577282	2.5950171	20	10 15.2	20.7
163186 2002 DA_{13}	17.0	X	265.15357	239.02266	316.41877	1.74364	0.1139179	0.25940209	2.4349333	20	—	—
163187 2002 DD_{16}	16.8	X	275.11411	145.66377	98.04294	2.18680	0.1413439	0.26762762	2.3847824	20	1 9.5	20.3
163188 2002 ES_4	16.8	X	268.25239	222.80809	5.25185	1.27413	0.1256964	0.26371795	2.4082945	20	—	—
163189 2002 EU_6	12.9	X	323.20300	50.34338	2.84767	7.06640	0.0943992	0.08365183	5.1778851	20	10 14.7	19.4
163190 2002 EV_7	16.1	X	19.26854	155.91546	15.47284	5.40479	0.1711841	0.27331737	2.3515699	20	3 7.6	17.8
163191 2002 EQ_9	19.4	X	96.79140	44.21230	179.16076	16.30200	0.4645266	0.39652366	1.8349461	20	10 29.1	23.1
163192 2002 EB_{11}	16.0	X	279.14201	42.85853	158.34100	2.85886	0.1337989	0.26077702	2.4263671	20	—	—
163193 2002 EQ_{12}	15.8	X	56.61677	253.94898	355.72692	23.64728	0.2471098	0.23133655	2.6280878	20	9 22.3	19.4
163194 2002 EC_{14}	16.2	X	92.71027	331.89094	281.23680	4.38157	0.2685758	0.23974902	2.5662452	20	11 3.4	20.6
163195 2002 EP_{21}	16.4	X	245.60860	354.73466	38.79561	5.65816	0.1997870	0.28974237	2.2618374	20	6 14.5	19.6
163196 2002 EN_{24}	12.6	X	358.60012	186.77260	169.12109	9.14275	0.0247956	0.08107957	5.2868269	20	9 28.5	19.4
163197 2002 EZ_{25}	16.6	X	139.37792	257.48407	327.13612	3.33289	0.1834282	0.24322796	2.5417162	20	11 4.1	20.9
163198 2002 EX_{27}	16.6	X	29.46016	22.11655	141.00785	2.81447	0.0820121	0.27348519	2.3506078	20	3 13.6	18.8
163199 2002 ED_{29}	17.2	X	289.98215	153.88739	35.17938	2.46026	0.1333353	0.26162972	2.4210922	20	—	—
163200 2002 EF_{36}	16.8	X	262.99699	24.68697	26.98563	3.16547	0.1199708	0.29400202	2.2399372	20	8 18.1	19.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
163201 2002 EB_{39}	16.1	X	82.54468	295.78131	341.70018	11.84829	0.3092099	0.24219999	2.5489030	20	11 25.8	20.8
163202 2002 EN_{40}	16.4	X	109.19832	272.19655	179.76728	5.95652	0.1586076	0.27670826	2.3323191	20	4 17.1	19.4
163203 2002 EZ_{40}	16.5	X	91.24057	306.37461	185.51622	6.04765	0.2059998	0.27834971	2.3231408	20	5 26.8	19.5
163204 2002 ED_{41}	16.8	X	80.88728	303.23190	191.48577	3.04925	0.0905780	0.27902483	2.3193920	20	4 26.6	19.4
163205 2002 EP_{42}	17.0	X	42.73852	343.60847	182.42200	2.57158	0.0650526	0.27667335	2.3325153	20	4 7.7	19.5
163206 2002 EP_{44}	16.6	X	109.81264	18.57853	289.52288	0.57079	0.1656327	0.25148638	2.4857631	20	—	—
163207 2002 EW_{44}	16.2	X	132.52301	7.38660	333.01880	2.83929	0.1342780	0.26151032	2.4218291	20	—	—
163208 2002 EN_{48}	13.2	X	183.38358	332.29805	206.48578	2.30201	0.0351719	0.08179202	5.2560816	20	10 4.4	20.3
163209 2002 EC_{49}	16.6	X	68.72040	120.18954	136.01016	5.18768	0.2437908	0.23688150	2.5869138	20	10 18.0	20.5
163210 2002 EJ_{49}	16.8	X	172.58685	93.43033	164.54986	2.63868	0.1544907	0.25401627	2.4692309	20	—	—
163211 2002 EA_{50}	16.3	X	165.32052	314.05199	346.34360	6.28110	0.0986222	0.26016949	2.4301428	20	—	—
163212 2002 EZ_{56}	17.1	X	99.89144	283.79134	198.44337	3.81803	0.0945280	0.28050660	2.3112166	20	5 6.9	19.9
163213 2002 EJ_{62}	16.1	X	193.85373	141.24482	182.61455	3.41088	0.1747861	0.26706363	2.3881387	20	1 30.6	20.0
163214 2002 EY_{66}	16.5	X	214.27199	39.58059	195.35487	4.12518	0.0735570	0.25625682	2.4548168	20	—	—
163215 2002 EB_{67}	16.8	X	49.58273	170.54253	310.43441	1.51967	0.1772202	0.27193614	2.3595260	20	2 22.9	18.5
163216 2002 EN_{68}	12.6	X	4.31387	18.17710	352.92351	6.72718	0.0373289	0.08279929	5.2133673	20	10 19.9	19.3
163217 2002 EY_{70}	16.6	X	229.77750	331.67085	267.10535	2.14550	0.1384346	0.25774694	2.4453463	20	—	—
163218 2002 EA_{78}	16.3	X	193.53204	168.66601	199.40972	5.51969	0.1720527	0.27149063	2.3621066	20	3 24.6	20.0
163219 2002 EM_{78}	17.3	X	82.95797	293.32730	170.73803	2.47260	0.1161336	0.27679371	2.3318390	20	3 20.4	19.9
163220 2002 EN_{85}	17.0	X	51.53039	352.32770	149.17640	2.52798	0.1452636	0.27429933	2.3459543	20	3 27.2	19.0
163221 2002 EN_{88}	16.0	X	251.64494	224.57835	27.52010	7.56227	0.1544830	0.26188001	2.4195494	20	—	—
163222 2002 EP_{88}	16.9	X	332.13485	132.36129	35.58515	3.90832	0.1430591	0.26420332	2.4053440	20	—	—
163223 2002 EL_{90}	16.7	X	173.68153	8.06210	76.93933	2.80952	0.0391242	0.28416669	2.2913280	20	6 13.5	19.5
163224 2002 ES_{102}	16.4	X	163.19101	105.99834	167.84641	6.23652	0.1014407	0.25647849	2.4534022	20	—	—
163225 2002 EU_{102}	17.4	X	216.40972	47.46185	195.26374	1.26590	0.1457298	0.25884587	2.4384202	20	—	—
163226 2002 EA_{103}	16.0	X	98.38569	329.14701	356.22444	0.75062	0.1944509	0.25325108	2.4742021	20	—	—
163227 2002 EA_{104}	15.4	X	100.44817	131.77775	109.98283	9.21868	0.1568238	0.23863766	2.5742066	20	10 25.0	19.5
163228 2002 EU_{105}	16.4	X	115.13167	138.65597	122.54705	5.10353	0.1888379	0.24375409	2.5380574	20	11 29.9	20.6
163229 2002 ER_{117}	16.4	X	194.42156	314.55831	316.89557	5.45644	0.1134056	0.26086238	2.4258377	20	—	—
163230 2002 EG_{125}	16.0	X	122.90718	257.79605	75.01648	3.48521	0.2080652	0.25859705	2.4399842	20	—	—
163231 2002 EH_{129}	16.4	X	87.87936	270.26468	358.92866	12.35286	0.1754879	0.24005186	2.5640864	20	11 8.7	20.5
163232 2002 ED_{135}	15.9	X	91.31837	69.79010	199.87953	7.17583	0.1798581	0.24095376	2.5576842	20	11 18.3	19.9
163233 2002 EA_{139}	16.3	X	62.89767	121.98380	158.60521	9.54041	0.1190158	0.23977425	2.5660652	20	10 28.2	19.9
163234 2002 EG_{140}	16.6	X	199.30552	211.07881	80.06637	2.98660	0.1515976	0.26340201	2.4102199	20	—	—
163235 2002 ED_{149}	16.7	X	204.30466	276.11026	159.20950	3.63363	0.1568170	0.28837454	2.2689840	20	7 1.8	20.0
163236 2002 EH_{149}	16.6	X	233.84202	149.04097	155.62972	1.62758	0.1795466	0.26800689	2.3825320	20	2 11.5	20.2
163237 2002 EO_{151}	16.6	X	88.13924	48.24565	152.10971	1.53462	0.0739967	0.28553288	2.2840133	20	8 8.4	19.5
163238 2002 EQ_{151}	12.3	X	310.12664	234.37434	183.31555	9.09074	0.0645435	0.08044138	5.3147525	20	10 6.8	19.1
163239 2002 EU_{156}	17.7	X	110.46649	267.19496	153.21863	1.94629	0.1890267	0.27404381	2.3474123	20	3 10.5	20.7
163240 2002 EM_{157}	12.4	X	57.37976	337.50208	320.42668	8.80369	0.1331630	0.08040756	5.3162425	20	10 10.5	19.3
163241 2002 ED_{161}	16.8	X	147.98229	104.82447	162.01867	2.36552	0.1415720	0.25279841	2.4771549	20	—	—
163242 2002 FE	15.1	X	140.97237	98.65189	358.95627	21.78400	0.3357543	0.28250605	2.3002986	20	6 3.9	19.7
163243 2002 FB_{3}	16.5	X	256.66555	148.31024	203.58934	20.27778	0.6016822	1.48291182	0.7615981	20	—	—
163244 Matthewhill	17.0	X	189.75059	170.07856	145.42585	1.09738	0.1794701	0.26659643	2.3909280	20	1 17.8	20.8
163245 2002 FW_{23}	12.6	X	312.76150	231.02064	165.08975	1.92671	0.0638881	0.07945214	5.3587764	20	9 15.3	19.4
163246 2002 FH_{28}	16.5	X	239.45027	266.93031	319.62053	6.43347	0.0594117	0.25906144	2.4370673	20	—	—
163247 2002 FP_{28}	15.8	X	129.56742	195.42802	60.00118	6.47379	0.2394780	0.24467186	2.5317065	20	12 4.2	20.3
163248 2002 FJ_{38}	17.2	X	1.15963	59.27497	105.63536	3.89192	0.0800296	0.26973937	2.3723194	20	1 28.5	19.7
163249 2002 GT	18.5	X	128.27980	135.10257	201.75058	6.96833	0.3348083	0.63223658	1.3444654	20	—	—
163250 2002 GH_{1}	15.5	X	43.95772	351.00236	170.29581	35.00690	0.5393462	0.22334972	2.6903727	20	6 28.6	19.5
163251 2002 GX_{4}	15.8	X	166.82116	281.85281	169.12957	22.30520	0.3719423	0.28543511	2.2845348	20	6 19.3	20.7
163252 2002 GD_{11}	17.6	X	263.87842	200.98604	95.63429	9.00489	0.4412675	0.31707963	2.1298899	20	2 9.6	21.8
163253 2002 GS_{18}	15.7	X	16.72659	240.78582	22.74711	8.25455	0.2880367	0.22507635	2.6765959	20	8 19.8	18.2
163254 2002 GL_{24}	16.3	X	133.38260	171.45250	187.19894	6.45825	0.1507987	0.26320508	2.4114219	20	1 11.9	19.7
163255 Adrianhill	16.8	X	145.56236	324.54702	351.43090	2.09394	0.1993029	0.25955238	2.4339933	20	—	—
163256 2002 GU_{35}	12.4	X	12.97140	1.49565	4.67692	11.52849	0.0497156	0.08277534	5.2143728	20	10 24.5	19.2
163257 2002 GR_{36}	16.1	X	127.59725	143.49983	209.76042	5.72458	0.1379632	0.25778333	2.4451161	20	—	—
163258 2002 GT_{37}	15.2	X	86.14556	153.67759	105.02801	18.40986	0.1999749	0.23919639	2.5701964	20	11 8.3	19.6
163259 2002 GS_{40}	16.8	X	7.39821	261.64287	273.76783	2.07412	0.1147612	0.27075486	2.3663839	20	2 18.7	19.2
163260 2002 GO_{43}	16.2	X	149.64005	214.81512	198.21669	5.57424	0.0976983	0.27379113	2.3488564	20	4 3.9	19.3
163261 2002 GF_{45}	16.7	X	69.84800	116.34710	333.39793	0.86712	0.1488927	0.26811479	2.3818928	20	2 13.1	18.8
163262 2002 GW_{63}	16.3	X	45.87928	322.42211	156.33152	2.74508	0.1777177	0.26822761	2.3812248	20	2 12.2	17.9
163263 2002 GA_{71}	12.3	X	2.00889	254.25696	118.15437	26.00598	0.0567214	0.08335369	5.1902248	20	10 31.9	19.3
163264 2002 GY_{72}	16.1	X	116.80918	126.59192	110.04263	3.64997	0.0945792	0.23985939	2.5654580	20	10 28.6	19.8
163265 2002 GU_{73}	15.9	X	14.27674	189.39033	190.10699	8.62116	0.0471653	0.24573295	2.5244133	20	12 20.4	19.2
163266 2002 GF_{75}	16.8	X	308.79000	234.24851	321.89173	1.76706	0.1168712	0.26362203	2.4088786	20	—	—
163267 2002 GQ_{77}	16.4	X	300.19458	63.34532	150.01438	6.69137	0.0596243	0.26425213	2.4050479	20	1 10.0	19.6
163268 2002 GG_{81}	16.2	X	50.06978	147.65688	154.12305	6.24371	0.1355786	0.23789130	2.5795880	20	11 9.9	19.7
163269 2002 GX_{84}	15.1	X	300.70326	122.61475	182.06508	15.62813	0.2853545	0.21815136	2.7329442	20	4 13.1	18.7
163270 2002 GE_{86}	16.2	X	346.93643	111.56761	185.66721	12.42367	0.2699978	0.22485444	2.6783567	20	7 11.1	18.4
163271 2002 GZ_{87}	15.9	X	15.76780	109.52566	181.94898	11.40959	0.2003887	0.22865289	2.6486115	20	9 9.8	18.5
163272 2002 GV_{93}	15.8	X	111.84574	270.66131	325.77935	5.20780	0.1539015	0.23819563	2.5773903	20	10 22.5	19.9
163273 2002 GN_{102}	16.3	X	353.22143	325.68796	148.51377	9.39221	0.1778565	0.25957893	2.4338273	20	—	—
163274 2002 GP_{106}	15.8	X	62.47881	148.20392	117.10153	8.12199	0.1373057	0.23469568	2.6029509	20	10 10.6	19.5
163275 2002 GH_{107}	16.1	X	223.56878	100.80138	141.78698	5.48844	0.0674564	0.25813371	2.4429031	20	—	—
163276 2002 GT_{107}	15.6	X	44.57908	251.31744	47.58604	13.38254	0.1388798	0.23765818	2.5812746	20	10 30.1	18.9
163277 2002 GO_{110}	16.0	X	73.78529	189.36600	61.54586	5.32079	0.1366209	0.23454177	2.6040896	20	10 3.7	19.7
163278 2002 GD_{114}	16.0	X	143.52090	241.81234	65.93722	7.09539	0.1357071	0.25410751	2.4686397	20	—	—
163279 2002 GB_{117}	16.0	X	34.35843	272.51133	51.56075	15.02573	0.1341189	0.23863777	2.5742058	20	11 16.0	19.3
163280 2002 GF_{117}	16.5	X	23.14154	118.28100	167.65524	7.84802	0.1790854	0.23011133	2.6374084	20	9 13.7	19.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
163281 2002 GL_{117}	16.2	X	73.38260	202.64577	89.00145	5.75681	0.2311172	0.23943807	2.5684665	20	12 1.9	20.2
163282 2002 GR_{119}	16.2	X	15.52221	124.98012	163.87385	11.86138	0.2159836	0.22996049	2.6385615	20	9 9.8	18.6
163283 2002 GV_{120}	16.7	X	156.14557	76.34790	31.24897	3.07621	0.1953286	0.28270498	2.2992194	20	6 28.3	20.4
163284 2002 GZ_{128}	16.5	X	101.52803	47.74710	247.68349	0.69998	0.1021799	0.24598639	2.5226790	20	12 24.5	20.3
163285 2002 GK_{136}	16.9	X	86.01329	92.26421	358.36658	2.16161	0.1769213	0.27077311	2.3662776	20	3 16.6	19.4
163286 2002 GT_{137}	16.0	X	165.21042	262.85720	327.73718	3.83129	0.0561023	0.24609770	2.5219183	20	12 12.2	19.5
163287 2002 GB_{140}	16.2	X	329.94070	248.55468	219.62782	6.13910	0.1013213	0.25318410	2.4746385	20	—	—
163288 2002 GD_{140}	16.1	X	158.70911	160.83203	64.33002	4.18807	0.0522042	0.24327694	2.5413750	20	11 27.7	19.4
163289 2002 GE_{140}	16.6	X	28.05441	286.40698	29.32566	5.04825	0.2339375	0.23514869	2.5996068	20	11 10.8	19.7
163290 2002 GE_{141}	16.4	X	114.72680	63.12453	184.28979	3.88444	0.0869982	0.23934470	2.5691345	20	11 7.6	20.1
163291 2002 GT_{143}	15.9	X	201.07111	138.18420	224.99012	6.45774	0.1338099	0.26863961	2.3787895	20	3 24.2	19.5
163292 2002 GB_{151}	16.3	X	45.19817	236.09000	229.15221	5.82239	0.0774675	0.26601030	2.3944388	20	1 15.6	18.9
163293 2002 GL_{152}	15.8	X	62.34064	250.03693	74.46816	12.71796	0.2967656	0.24112503	2.5564728	20	—	—
163294 2002 GZ_{153}	15.9	X	46.16790	1.99594	93.83234	10.49720	0.1467909	0.26337876	2.4103617	20	1 8.3	18.0
163295 2002 HW	19.3	X	252.61345	77.49585	32.44443	5.81133	0.6440927	0.25449954	2.4661040	20	8 14.6	24.0
163296 2002 HK_{2}	16.1	X	43.89643	116.97998	170.41215	12.19208	0.1671764	0.23513488	2.5997087	20	10 18.9	19.5
163297 2002 HD_{6}	16.2	X	253.74427	52.16262	130.88022	3.10233	0.1383802	0.25378658	2.4707205	20	—	—
163298 2002 HG_{8}	15.3	X	99.79883	198.66273	37.93274	16.00856	0.1520457	0.23390614	2.6088051	20	10 15.8	19.4
163299 2002 HP_{16}	17.0	X	71.92195	80.75696	193.90857	2.46046	0.1799161	0.23713261	2.5850872	20	11 4.3	20.8
163300 2002 JJ_{4}	15.6	X	68.56926	144.05241	128.97806	28.20761	0.0590593	0.23465240	2.6032710	20	10 24.5	19.8
163301 2002 JE_{8}	15.8	X	23.63550	340.84668	159.58488	7.84407	0.1722417	0.26752102	2.3854159	20	1 25.9	17.8
163302 2002 JC_{12}	15.4	X	353.90796	231.25757	41.75532	9.65249	0.1673972	0.22200088	2.7012592	20	6 22.3	18.1
163303 2002 JS_{15}	15.6	X	338.96497	201.67439	87.13023	10.96859	0.2287989	0.22085490	2.7105954	20	6 9.2	18.0
163304 2002 JF_{25}	15.9	X	41.10478	153.70655	114.31759	4.76330	0.1584150	0.22919650	2.6444218	20	9 15.9	19.2
163305 2002 JR_{35}	15.7	X	354.64820	199.93472	117.94328	3.13162	0.2784681	0.22521069	2.6755314	20	9 15.5	17.6
163306 2002 JC_{42}	16.5	X	220.61886	37.44441	212.68653	6.03976	0.0787311	0.25604330	2.4561814	20	—	—
163307 2002 JU_{45}	15.6	X	193.15025	157.01220	228.53231	7.30230	0.1269382	0.27232948	2.3572534	20	4 14.8	19.1
163308 2002 JV_{45}	16.5	X	279.14222	169.42177	355.00310	1.95518	0.1177211	0.25370567	2.4712457	20	—	—
163309 2002 JC_{59}	15.4	X	202.41397	94.62975	57.84492	15.81315	0.0743595	0.23710119	2.5853156	20	10 19.7	19.2
163310 2002 JH_{60}	15.7	X	336.22211	278.77593	52.22221	8.91647	0.3580816	0.22442091	2.6818048	20	8 6.5	17.1
163311 2002 JQ_{66}	15.8	X	205.31254	336.92356	194.76703	4.23113	0.0790905	0.24133992	2.5549551	20	11 11.7	19.3
163312 2002 JE_{69}	16.0	X	86.21049	164.20868	98.81017	9.67091	0.1553704	0.23727798	2.5840312	20	11 5.3	20.0
163313 2002 JG_{75}	15.7	X	52.81386	26.83200	244.17549	14.67897	0.1913924	0.22941969	2.6427064	20	10 3.8	19.6
163314 2002 JY_{82}	16.0	X	62.12231	255.99907	220.48193	5.72265	0.0556361	0.26759900	2.3849525	20	2 24.2	18.8
163315 2002 JT_{83}	15.5	X	320.88215	256.30195	42.03777	11.42486	0.1531503	0.22165135	2.7040982	20	5 24.2	18.5
163316 2002 JO_{85}	16.4	X	107.46520	247.75806	26.79113	3.31802	0.0563673	0.24149619	2.5538528	20	11 30.9	20.0
163317 2002 JM_{87}	15.9	X	62.87955	302.37075	47.40071	13.37171	0.2920583	0.24119460	2.5559812	20	—	—
163318 2002 JC_{89}	16.2	X	28.40213	281.11975	29.03706	2.08566	0.1991923	0.23274711	2.6174588	20	10 29.3	19.2
163319 2002 JB_{98}	15.5	X	149.34691	26.53994	173.36718	12.03288	0.1714338	0.23627314	2.5913524	20	10 16.3	19.8
163320 2002 JS_{106}	15.6	X	27.65287	32.71109	284.80938	6.41573	0.2051422	0.23438388	2.6052589	20	11 6.5	18.9
163321 2002 JY_{106}	15.8	X	67.06806	295.15391	348.36400	9.47611	0.1442739	0.23611224	2.5925296	20	11 1.6	19.6
163322 2002 JJ_{112}	15.8	X	298.89004	48.95826	264.87536	8.21662	0.2056446	0.21767227	2.7369528	20	5 1.6	19.3
163323 2002 JS_{115}	16.6	X	157.39259	38.86988	193.44908	6.10524	0.0941100	0.24312122	2.5424601	20	12 3.9	20.4
163324 2002 JJ_{116}	15.8	X	41.28252	299.64362	5.78159	7.51387	0.1995548	0.23412638	2.6071688	20	11 7.8	19.3
163325 2002 JZ_{120}	16.1	X	62.69300	119.87134	169.63594	13.83091	0.1821333	0.23533698	2.5982200	20	11 15.6	20.1
163326 2002 JF_{124}	15.6	X	23.08142	242.40164	78.87431	15.70594	0.1215458	0.23432866	2.6056682	20	10 31.3	19.0
163327 2002 JR_{131}	16.2	X	31.18843	106.57446	211.19934	4.55887	0.3725200	0.23245208	2.6196730	20	12 7.9	19.8
163328 2002 JU_{132}	16.7	X	206.36141	256.78218	231.10681	3.88194	0.1263947	0.29256310	2.2472757	20	9 15.9	19.9
163329 2002 JO_{146}	16.1	X	357.90691	116.16590	187.20520	9.44664	0.2107258	0.22459369	2.6804292	20	8 19.1	18.5
163330 2002 JJ_{147}	15.9	X	158.25598	199.87879	206.03180	5.98077	0.0917942	0.26872960	2.3782584	20	4 3.7	19.1
163331 2002 KX_{5}	16.0	X	305.46357	21.83336	124.86368	5.72400	0.1293773	0.25444041	2.4664860	20	—	—
163332 2002 KZ_{5}	16.4	X	22.36625	211.50672	57.06104	4.85859	0.1745266	0.22483253	2.6785307	20	8 18.7	19.3
163333 2002 KU_{8}	15.3	X	345.44988	240.51264	81.73494	14.52699	0.2114298	0.22599931	2.6693036	20	8 29.7	18.0
163334 2002 KB_{15}	15.9	X	43.38540	119.18488	224.69684	3.27395	0.3180962	0.23452570	2.6042086	20	—	—
163335 2002 LJ	17.0	X	218.43183	155.64526	247.05370	56.31203	0.6667879	0.64402076	1.3280145	20	5 14.5	19.9
163336 2002 LE_{5}	15.7	X	54.19634	164.58619	93.41934	18.94283	0.1618597	0.23015375	2.6370843	20	9 30.0	19.7
163337 2002 LF_{11}	16.0	X	64.85289	194.86093	151.18850	5.86543	0.2236367	0.23888893	2.5724012	20	—	—
163338 2002 LS_{13}	15.4	X	347.21512	43.90591	256.82095	15.24566	0.2464035	0.22255755	2.6967529	20	7 16.0	17.7
163339 2002 LU_{24}	15.4	X	80.96457	101.64568	181.18284	7.57273	0.2113248	0.23474672	2.6025737	20	11 26.5	19.6
163340 2002 LW_{28}	15.6	X	300.66830	37.42586	246.19952	7.21125	0.1931521	0.21089710	2.7952606	20	3 26.3	19.4
163341 2002 LP_{32}	15.6	X	339.46497	94.80804	211.84494	9.96287	0.2005609	0.22238130	2.6981776	20	7 9.2	18.3
163342 2002 LB_{44}	14.5	X	275.78688	141.59285	242.40984	9.94097	0.2659534	0.21390727	2.7689749	20	6 25.7	18.4
163343 2002 LC_{53}	15.3	X	0.60978	157.67545	93.38119	7.53438	0.1527111	0.21658358	2.7461170	20	6 3.9	18.0
163344 2002 MS_{2}	15.5	X	318.58982	330.32229	290.82820	6.15585	0.2092967	0.21040919	2.7995802	20	3 19.5	19.1
163345 2002 MK_{5}	15.9	X	270.04217	123.60889	205.82357	3.49147	0.1059368	0.21087689	2.7954393	20	5 2.0	19.6
163346 2002 NS	15.4	X	293.84461	197.62496	88.35640	9.19487	0.1984684	0.21116367	2.7929077	20	3 28.1	19.4
163347 2002 NK_{4}	15.3	X	246.12461	124.44579	157.11081	11.26742	0.0701284	0.20026808	2.8933095	20	2 8.8	19.7
163348 2002 NN_{4}	20.1	X	83.77386	222.23247	259.47964	5.41765	0.4345261	1.20130901	0.8763943	20	6 14.1	14.4
163349 2002 NZ_{4}	15.4	X	262.55105	89.73362	285.38664	7.32764	0.1796049	0.21454750	2.7634636	20	6 11.0	19.3
163350 2002 NP_{26}	15.0	X	325.26651	213.56606	143.76648	10.92281	0.2387792	0.21851219	2.7299347	20	8 23.9	17.2
163351 2002 NW_{32}	14.4	X	110.64011	170.83288	257.68033	10.01565	0.3364443	0.19013445	2.9952208	20	4 9.2	19.5
163352 2002 NR_{42}	15.5	X	326.47754	272.56688	48.33844	5.90879	0.0542393	0.21779130	2.7359555	20	7 18.9	19.0
163353 2002 NN_{43}	15.4	X	191.43961	278.88567	38.71404	5.90245	0.2212674	0.19584530	2.9367069	20	2 1.1	20.5
163354 2002 NW_{43}	15.9	X	38.76570	119.00877	187.61508	13.98930	0.1259292	0.23097780	2.6308084	20	10 29.5	19.3
163355 2002 NQ_{49}	16.0	X	277.50683	233.86032	137.40037	2.34295	0.2298593	0.21454564	2.7634795	20	6 17.1	19.8
163356 2002 NJ_{59}	15.2	X	235.80930	214.00212	128.98392	16.05909	0.1492309	0.20465817	2.8517842	20	4 13.3	20.0
163357 2002 NH_{63}	16.0	X	275.06677	2.90645	346.23716	2.72490	0.1341217	0.21383543	2.7695950	20	5 29.2	19.9
163358 2002 NN_{63}	16.2	X	63.43208	217.27603	60.56346	2.59302	0.1063245	0.22796300	2.6539525	20	10 19.2	19.7
163359 2002 OJ_{5}	15.8	X	102.53757	82.53553	150.65105	12.61818	0.1273595	0.22744041	2.6580163	20	10 11.9	19.9
163360 2002 OD_{7}	14.8	X	185.39862	117.48601	267.27173	9.63305	0.1191826	0.20200035	2.8767445	20	4 6.5	19.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
163361 2002 OX_9	15.1	X	144.73760	103.58336	281.96312	10.81083	0.0729424	0.19657824	2.9294028	20	2 22.9	19.5
163362 2002 OZ_{14}	14.7	X	125.23837	91.21857	280.67177	12.64323	0.0936066	0.19098801	2.9862900	20	1 21.9	19.1
163363 2002 OV_{19}	15.8	X	12.75553	57.44961	152.34140	12.12012	0.3024959	0.21446847	2.7641424	20	5 8.8	17.9
163364 2002 OD_{20}	18.8	X	175.52350	275.25340	259.96324	4.18883	0.3690424	0.61773569	1.3654242	20	11 15.2	18.9
163365 2002 ON_{20}	15.6	X	269.19560	165.80107	163.65332	9.70528	0.1653800	0.21059173	2.7979622	20	4 25.5	19.7
163366 2002 PM	15.8	X	294.07828	232.97546	139.21903	6.61418	0.3234844	0.21618542	2.7494877	20	6 26.1	19.2
163367 2002 PP	15.0	X	243.14358	225.18110	167.53733	7.11868	0.2149587	0.21093296	2.7949438	20	6 9.4	19.6
163368 2002 PF_3	14.9	X	198.98261	137.33641	248.71352	11.97167	0.1080650	0.20430394	2.8550796	20	4 23.4	19.4
163369 2002 PK_{17}	15.5	X	172.70498	207.58224	279.08835	8.67226	0.0482424	0.21944427	2.7221991	20	8 3.4	19.5
163370 2002 PG_{21}	15.8	X	20.58162	63.95009	158.29356	6.58556	0.0033493	0.21052528	2.7985509	20	5 23.6	19.6
163371 2002 PL_{27}	15.2	X	224.62989	109.88030	147.05798	9.27168	0.0438311	0.19172475	2.9786348	20	—	—
163372 2002 PP_{38}	15.7	X	186.83580	220.61269	157.65437	2.41354	0.0828169	0.20336975	2.8638162	20	4 4.5	19.9
163373 2002 PZ_{39}	18.9	X	30.45944	259.99427	328.90075	1.66821	0.5463569	0.55352563	1.4690759	20	1 29.7*	16.7
163374 2002 PG_{44}	15.1	X	215.06299	223.43218	163.58477	8.56160	0.3284970	0.20228778	2.8740188	20	5 5.5	20.5
163375 2002 PT_{48}	14.6	X	92.86584	149.46693	282.02817	9.31224	0.0675330	0.19271296	2.9684434	20	2 18.6	18.8
163376 2002 PM_{54}	15.0	X	284.60888	220.21805	150.30816	10.31386	0.2332822	0.21127642	2.7919139	20	6 25.1	18.8
163377 2002 PW_{62}	15.0	X	253.01000	70.55063	314.18195	7.88119	0.1697634	0.21262722	2.7800769	20	6 13.8	19.2
163378 2002 PY_{78}	15.3	X	140.96469	350.28414	31.82116	7.16881	0.0707584	0.19617780	2.9333877	20	2 22.4	19.6
163379 2002 PK_{85}	15.6	X	215.72675	260.31152	75.23854	2.82688	0.0937794	0.20061136	2.8900079	20	3 13.9	19.9
163380 2002 PN_{86}	15.6	X	240.61829	210.09111	194.33692	7.90008	0.2195526	0.21250289	2.7811612	20	6 20.4	20.1
163381 2002 PV_{101}	15.3	X	275.90200	218.65503	181.54058	9.43417	0.1698505	0.21793613	2.7347433	20	7 31.6	18.9
163382 2002 PZ_{116}	15.3	X	134.59807	38.31526	325.64358	11.37166	0.1323691	0.18936540	3.0033248	20	1 30.7	19.9
163383 2002 PP_{118}	15.7	X	263.67893	187.64267	199.89853	5.93304	0.0489729	0.21490309	2.7604144	20	7 17.1	19.6
163384 2002 PV_{125}	15.6	X	260.05067	339.25294	38.43415	2.38360	0.2555966	0.21144402	2.7904384	20	6 1.8	19.8
163385 2002 PL_{127}	16.1	X	2.07965	169.49874	82.27266	3.39274	0.2639858	0.21482378	2.7610937	20	6 10.0	17.7
163386 2002 PP_{156}	16.5	X	219.01732	221.59872	150.70979	2.48319	0.0957849	0.20719874	2.8284249	20	4 30.6	20.9
163387 2002 PZ_{178}	15.7	X	245.17428	158.48387	192.52541	5.56732	0.0203446	0.20847322	2.8168856	20	5 11.4	19.5
163388 2002 QG_1	14.8	X	152.61479	187.41928	236.37737	5.10474	0.1219098	0.19956397	2.9001110	20	4 25.9	19.3
163389 2002 QS_1	15.5	X	72.34444	275.09156	135.89871	4.08820	0.2303059	0.18730431	3.0253168	20	1 23.5	18.9
163390 2002 QM_4	14.9	X	57.98172	105.12183	315.87608	8.67688	0.1018603	0.18755519	3.0226184	20	—	—
163391 2002 QU_{12}	15.3	X	184.65681	167.59697	293.76445	7.84788	0.1036835	0.21323111	2.7748254	20	7 15.4	19.5
163392 2002 QH_{32}	16.0	X	285.62626	258.99514	26.46620	4.68690	0.1361196	0.20471079	2.8512955	20	3 22.8	19.9
163393 2002 QR_{34}	15.1	X	155.05266	161.56564	148.06849	18.57071	0.0555842	0.18613418	3.0379827	20	—	—
163394 2002 QC_{39}	15.8	X	101.38421	260.42535	147.54477	1.73747	0.1503261	0.18896936	3.0075196	20	2 16.3	20.0
163395 2002 QJ_{42}	15.1	X	299.07491	294.43830	0.19180	8.48990	0.2963204	0.21112491	2.7932495	20	3 25.7	18.9
163396 2002 QR_{43}	15.5	X	265.05695	9.70426	19.20046	7.83039	0.2170747	0.21396860	2.7684458	20	6 27.2	19.6
163397 2002 QU_{49}	15.7	X	94.41686	16.23502	31.75801	4.24896	0.0709518	0.19029817	2.9935027	20	1 28.7	19.8
163398 2002 QQ_{55}	15.6	X	233.45850	97.16515	152.43351	10.68790	0.0595655	0.19004411	2.9961699	20	—	—
163399 2002 QT_{64}	16.1	X	25.89789	178.78722	7.57598	1.77853	0.0100443	0.20392939	2.8585745	20	4 12.2	19.8
163400 2002 QK_{74}	16.0	X	271.05102	187.06339	147.59930	6.48205	0.1366618	0.20883066	2.8136703	20	5 7.8	20.1
163401 2002 QP_{83}	16.1	X	204.35325	197.89062	226.89938	3.25134	0.0872387	0.21074549	2.7966011	20	6 20.1	20.2
163402 2002 QA_{86}	15.9	X	297.74353	136.59380	213.98909	2.07589	0.0845132	0.21496436	2.7598898	20	7 10.6	19.2
163403 2002 QT_{86}	16.2	X	250.43125	150.18016	162.48143	6.28794	0.0590760	0.20286568	2.8685582	20	3 25.5	20.2
163404 2002 QD_{90}	15.6	X	26.60649	201.89442	23.13618	9.44453	0.0951685	0.20980181	2.8049808	20	6 8.9	19.2
163405 2002 QL_{103}	15.1	X	176.30845	232.36604	120.24840	11.46546	0.1235444	0.19284423	2.9670961	20	2 26.9	19.8
163406 2002 RN_2	15.2	X	250.12379	244.67824	169.16956	7.88880	0.2194607	0.21136554	2.7911291	20	7 11.3	19.5
163407 2002 RH_5	14.8	X	272.43295	292.09152	285.53913	12.33009	0.1159844	0.18780674	3.0199188	20	—	—
163408 2002 RC_7	15.4	X	108.19861	262.53405	154.45504	2.29397	0.1106254	0.19521019	2.9430732	20	2 29.4	19.6
163409 2002 RC_{12}	15.2	X	146.35144	331.15080	348.71119	7.53081	0.1742597	0.18539988	3.0459990	20	—	—
163410 2002 RK_{18}	15.1	X	130.44429	271.45792	118.42772	3.03268	0.0896152	0.19203108	2.9754663	20	2 20.2	19.5
163411 2002 RC_{23}	15.0	X	109.55327	46.17307	342.63558	9.07274	0.0916547	0.18973712	2.9994009	20	1 27.9	19.2
163412 2002 RV_{25}	17.3	X	235.65948	46.14092	18.15322	34.48055	0.4507337	0.37409056	1.9075893	20	6 21.3	21.5
163413 2002 RX_{25}	15.9	X	296.63479	181.32213	170.50793	9.49976	0.1702248	0.21536340	2.7564796	20	6 27.4	19.5
163414 2002 RP_{26}	15.0	X	210.91403	23.67782	291.26252	10.84261	0.0376431	0.19455881	2.9496384	20	2 10.9	19.5
163415 2002 RW_{34}	15.7	X	174.98888	296.55284	77.80684	2.48268	0.1851959	0.19693772	2.9258369	20	3 22.8	20.5
163416 2002 RO_{37}	15.2	X	129.98317	189.65981	233.14692	3.29147	0.0611320	0.19862305	2.9092628	20	3 24.9	19.3
163417 2002 RC_{40}	15.2	X	248.55564	234.86588	135.72193	5.12567	0.1165228	0.20907782	2.8114524	20	5 29.1	19.4
163418 2002 RS_{47}	15.3	X	170.83072	221.40341	150.18167	11.76409	0.1292466	0.19615845	2.9335807	20	3 14.4	19.9
163419 2002 RK_{52}	14.9	X	74.78999	222.08857	162.36485	7.26155	0.0619400	0.18145412	3.0899977	20	—	—
163420 2002 RD_{54}	15.2	X	202.51535	279.88203	51.51347	2.90102	0.0806783	0.19487472	2.9464498	20	2 25.3	19.6
163421 2002 RD_{56}	15.3	X	162.78039	0.88352	336.70002	11.27335	0.1526449	0.18978385	2.9989085	20	1 29.7	20.1
163422 2002 RM_{56}	14.9	X	117.46354	60.27836	336.00766	7.88508	0.1004094	0.18981303	2.9986012	20	2 14.9	19.1
163423 2002 RD_{57}	15.5	X	163.29071	26.09197	309.19669	3.19583	0.2013919	0.19000661	2.9965642	20	1 28.2	20.5
163424 2002 RC_{58}	14.9	X	48.52637	109.57640	319.37899	7.72952	0.0635372	0.18479697	3.0526205	20	—	—
163425 2002 RE_{61}	17.5	X	327.10422	53.79139	5.00107	20.63526	0.1124474	0.39163247	1.8501925	20	—	—
163426 2002 RP_{61}	15.3	X	272.08330	8.63510	26.47846	8.85937	0.1616278	0.21157958	2.7892464	20	7 25.2	19.2
163427 2002 RZ_{61}	14.8	X	261.61726	296.91658	32.87748	8.91300	0.1708846	0.20307599	2.8665773	20	4 15.2	19.1
163428 2002 RP_{63}	15.0	X	194.16209	267.50175	18.32921	16.02760	0.1255613	0.18678435	3.0309288	20	—	—
163429 2002 RJ_{65}	14.8	X	84.56745	193.54030	202.61513	17.72947	0.2892640	0.18040402	3.1019770	20	1 28.7	19.3
163430 2002 RO_{67}	14.4	X	48.93400	116.54856	263.40502	8.71317	0.0708426	0.17687816	3.1430641	20	—	—
163431 2002 RR_{67}	15.1	X	183.46174	26.99017	319.03601	10.76068	0.1126314	0.19335542	2.9618642	20	2 21.5	19.7
163432 2002 RG_{69}	15.2	X	51.09599	82.71411	330.55388	2.43771	0.2508398	0.18176216	3.0865056	20	—	—
163433 2002 RW_{70}	14.9	X	133.34620	99.79453	294.96634	10.83691	0.0708336	0.19440234	2.9512210	20	2 22.2	19.3
163434 2002 RY_{72}	15.3	X	179.90648	80.63807	339.22211	10.90686	0.1976588	0.20335986	2.8639090	20	5 15.4	20.3
163435 2002 RF_{83}	14.8	X	60.24115	293.25882	185.59510	10.33006	0.1198324	0.19250038	2.9706283	20	3 14.9	18.4
163436 2002 RT_{83}	15.9	X	280.98613	155.73878	146.18763	1.94535	0.2548657	0.20530433	2.8457974	20	3 21.9	20.3
163437 2002 RM_{87}	15.0	X	58.94314	234.79522	177.88868	10.78070	0.0443290	0.18293233	3.0733292	20	—	—
163438 2002 RV_{88}	16.0	X	156.71040	171.87754	220.57273	1.74932	0.1569115	0.19695205	2.9256950	20	3 25.2	20.6
163439 2002 RK_{90}	15.5	X	198.97634	162.95377	175.49394	9.29587	0.0534026	0.19521300	2.9430449	20	2 27.7	19.9
163440 2002 RM_{90}	14.6	X	348.18069	266.96812	170.30426	5.60338	0.1273733	0.17569140	3.1572021	20	—	—

* The additional opposition: 10 12.7, $V = 20.7$

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
163441 2002 RB_{93}	15.1	X	265.53857	355.03596	207.74204	12.77792	0.0104701	0.18521231	3.0480551	20	—	—
163442 2002 RN_{96}	15.5	X	119.61840	11.14354	4.74061	14.17834	0.1408949	0.18656534	3.0333003	20	2 2.9	20.1
163443 2002 RL_{97}	14.9	X	142.28280	311.26534	9.22935	9.78520	0.1281122	0.18276033	3.0752571	20	—	—
163444 2002 RJ_{103}	15.0	X	98.40746	11.81745	10.70755	9.87484	0.0834075	0.18411440	3.0601605	20	1 5.6	19.3
163445 2002 RT_{104}	14.8	X	102.54302	291.39404	32.74653	16.57194	0.2550806	0.17640367	3.1486977	20	—	—
163446 2002 RY_{104}	15.3	X	99.42347	188.67390	195.19596	9.68346	0.2211858	0.18243155	3.0789508	20	1 24.4	19.7
163447 2002 RD_{106}	14.7	X	75.18601	2.48080	29.27627	11.13026	0.2703156	0.17917963	3.1160922	20	1 13.9	18.6
163448 2002 RQ_{113}	15.4	X	95.76316	106.25666	309.32554	3.23231	0.0727099	0.19189941	2.9768272	20	2 7.1	19.5
163449 2002 RG_{116}	14.9	X	109.41782	341.60837	353.15765	16.23788	0.0660606	0.17859794	3.1228545	20	—	—
163450 2002 RZ_{121}	15.2	X	162.65245	268.04828	96.60755	10.91771	0.1015297	0.19357618	2.9596120	20	2 28.2	19.9
163451 2002 RS_{122}	15.0	X	184.07399	226.83990	104.77872	10.43068	0.1352574	0.19267409	2.9688426	20	2 9.2	19.8
163452 2002 RE_{124}	14.9	X	140.89460	268.39046	104.61899	12.99047	0.0748762	0.19293753	2.9661395	20	2 11.2	19.3
163453 2002 RW_{128}	15.4	X	284.90873	8.83348	45.92497	11.42810	0.2447223	0.21723829	2.7405967	20	8 30.8	18.8
163454 2002 RN_{129}	18.9	X	238.34048	198.59604	332.13062	23.12446	0.3699036	0.78677168	1.1620823	20	—	—
163455 2002 RQ_{132}	14.8	X	147.04950	342.59186	298.68156	12.24265	0.0956727	0.17851407	3.1238326	20	—	—
163456 2002 RG_{134}	15.0	X	312.55096	319.33450	58.46589	10.33191	0.1231785	0.21782354	2.7356855	20	9 13.8	18.3
163457 2002 RV_{134}	15.1	X	172.85923	249.57389	104.86581	11.60194	0.1081819	0.19313355	2.9641321	20	2 26.0	19.8
163458 2002 RS_{138}	15.0	X	230.77653	157.87694	78.53138	11.83862	0.0257217	0.18541735	3.0458076	20	—	—
163459 2002 RT_{138}	14.6	X	136.26637	324.50783	60.89897	11.50353	0.1210472	0.19265404	2.9690486	20	2 29.6	19.3
163460 2002 RP_{139}	14.8	X	114.52954	263.82037	88.22272	11.49923	0.1414067	0.18428981	3.0582184	20	—	—
163461 2002 RY_{157}	15.8	X	39.23130	152.90410	325.22391	2.52294	0.1497788	0.18975228	2.9992411	20	2 13.1	19.0
163462 2002 RK_{159}	15.8	X	142.99415	197.49992	176.98906	11.56632	0.1037991	0.19170767	2.9788118	20	2 14.3	20.3
163463 2002 RQ_{161}	15.5	X	97.23082	256.64027	174.74551	2.34293	0.2130228	0.19143304	2.9816600	20	3 19.5	19.8
163464 2002 RO_{169}	15.3	X	206.17664	127.24749	227.31420	1.01589	0.0361004	0.19871174	2.9083971	20	3 27.2	19.5
163465 2002 RF_{174}	15.1	X	178.00055	130.82204	204.06112	8.63131	0.0701403	0.19270470	2.9685282	20	1 31.4	19.8
163466 2002 RQ_{175}	14.8	X	21.67243	145.24573	302.56001	8.68878	0.1012419	0.18340003	3.0681019	20	—	—
163467 2002 RV_{176}	14.7	X	345.60517	119.62936	313.14217	5.27333	0.1541353	0.17518208	3.1633186	20	—	—
163468 2002 RZ_{177}	14.9	X	174.08470	44.32485	195.05015	12.03021	0.1722195	0.17811134	3.1285397	20	12 12.4	20.2
163469 2002 RG_{180}	14.9	X	146.44724	190.77573	181.24532	10.08636	0.0542462	0.19070490	2.9892448	20	2 10.1	19.4
163470 Kenwallis	15.9	X	152.39898	182.59823	173.05687	2.62858	0.0859556	0.19049930	2.9913952	20	2 1.6	20.2
163471 2002 RU_{185}	15.1	X	190.38356	40.65440	256.56300	9.28607	0.0770042	0.18813031	3.0164551	20	1 2.5	19.6
163472 2002 RB_{186}	15.2	X	266.86880	163.31133	261.73840	8.35232	0.2539069	0.21435582	2.7651108	20	8 7.4	19.2
163473 2002 RB_{204}	15.8	X	204.77751	148.04688	204.82142	4.97018	0.1173941	0.20064384	2.8896961	20	3 20.9	20.5
163474 2002 RE_{212}	14.3	X	26.41175	84.10683	165.75908	17.47384	0.0998732	0.15586045	3.4196273	20	7 10.9	19.0
163475 2002 RQ_{212}	14.9	X	203.95405	221.45132	104.42442	11.55558	0.1008905	0.19332496	2.9621753	20	2 21.8	19.6
163476 2002 RU_{218}	14.9	X	147.69109	92.46253	166.04163	13.67438	0.0775602	0.17442479	3.1724680	20	12 13.0	20.0
163477 2002 RG_{222}	15.0	X	220.87668	102.87682	135.66566	10.53793	0.0492888	0.18421207	3.0590788	20	—	—
163478 2002 RQ_{223}	15.1	X	146.50061	202.53776	147.35872	8.72432	0.0590836	0.18851781	3.0123201	20	1 16.9	19.5
163479 2002 RM_{229}	15.5	X	142.79140	245.03925	117.47342	9.73319	0.1073592	0.18952892	3.0015971	20	2 3.1	19.9
163480 2002 RB_{232}	15.1	X	205.24471	165.18064	143.41674	16.03154	0.1339970	0.19147798	2.9811934	20	1 30.3	20.0
163481 2002 RW_{235}	15.3	X	48.29435	92.73442	326.67561	9.25697	0.0261742	0.18577011	3.0419506	20	—	—
163482 2002 RH_{237}	15.3	X	118.49338	276.59755	117.77966	2.61288	0.1280401	0.19161323	2.9797904	20	2 16.9	19.6
163483 2002 RA_{274}	16.3	X	263.08302	264.28393	42.78755	2.58573	0.0446891	0.20351665	2.8624380	20	4 3.9	20.2
163484 2002 SP_{5}	14.5	X	275.54838	321.02885	175.20380	10.03976	0.1270058	0.17196864	3.2026038	20	12 4.5	18.9
163485 2002 SB_{6}	15.3	X	60.23573	98.73225	7.98450	3.56536	0.2742126	0.18661772	3.0327327	20	3 23.5	18.6
163486 2002 SL_{6}	15.5	X	38.54817	269.43395	174.85802	4.68581	0.1686127	0.18212890	3.0823608	20	—	—
163487 2002 SM_{6}	14.7	X	79.03670	300.93308	22.02944	16.00563	0.0840298	0.17339848	3.1849738	20	12 14.9	19.7
163488 2002 ST_{10}	15.7	X	127.04869	160.74237	192.97077	8.46690	0.1671387	0.18525618	3.0475739	20	1 12.5	20.4
163489 2002 SE_{11}	15.2	X	224.93314	157.58111	144.88400	2.69200	0.0624635	0.19230257	2.9726651	20	2 13.5	19.5
163490 2002 SX_{11}	15.1	X	332.29284	292.08501	185.09375	5.06349	0.1126354	0.17703047	3.1412611	20	—	—
163491 2002 SM_{13}	16.0	X	255.16560	305.86986	80.36229	1.46214	0.1754988	0.20953356	2.8073743	20	6 17.5	20.2
163492 2002 SC_{26}	14.7	X	34.23488	240.50283	178.07674	14.63168	0.1005655	0.17868778	3.1218077	20	—	—
163493 2002 SV_{30}	14.7	X	67.55110	248.32248	156.75532	10.54274	0.0844087	0.18292706	3.0733881	20	—	—
163494 2002 SB_{31}	15.0	X	357.05648	290.32671	164.79920	10.49874	0.0202699	0.18002687	3.1063078	20	—	—
163495 2002 SH_{33}	15.1	X	166.59942	123.66762	242.31444	5.51870	0.2156093	0.19289860	2.9665386	20	3 3.9	20.2
163496 2002 SY_{38}	15.2	X	205.55615	166.74790	125.64605	3.61208	0.0706716	0.18847737	3.0127510	20	1 12.7	19.6
163497 2002 SX_{40}	15.5	X	301.24358	324.25658	40.58210	5.98315	0.0603156	0.21350421	2.7724587	20	8 10.9	19.1
163498 2002 SZ_{40}	15.2	X	53.07299	289.07235	111.40545	1.69401	0.0620857	0.18028728	3.1033160	20	—	—
163499 2002 SE_{41}	15.1	X	82.07627	355.13715	78.28650	5.15480	0.2264219	0.18547195	3.0452098	20	3 8.5	19.1
163500 2002 SO_{42}	14.9	X	111.99483	38.48986	2.25113	10.45855	0.1044851	0.18893548	3.0078791	20	2 17.2	19.2
163501 2002 SG_{44}	15.3	X	172.77303	165.58285	180.86485	4.49240	0.0954324	0.19127524	2.9832997	20	2 11.7	19.8
163502 2002 SA_{46}	15.7	X	158.69305	267.48121	116.28736	3.95653	0.2122826	0.19306001	2.9648848	20	3 22.2	20.6
163503 2002 SU_{46}	14.4	X	170.25426	93.21296	215.33154	14.04189	0.1786986	0.18328622	3.0693718	20	1 1.3	19.7
163504 2002 SW_{47}	14.8	X	55.11880	32.84931	7.19570	9.49851	0.0968540	0.18057046	3.1000705	20	—	—
163505 2002 SW_{48}	15.1	X	197.56267	223.71288	93.82536	3.66683	0.1705590	0.19180244	2.9778304	20	2 4.4	20.0
163506 2002 SJ_{55}	15.2	X	45.26784	111.19036	330.51435	5.42161	0.1598461	0.18449097	3.0559950	20	1 9.8	18.7
163507 2002 SC_{56}	14.9	X	66.35341	257.94163	135.40785	7.37819	0.0641243	0.18023781	3.1038837	20	—	—
163508 2002 SE_{59}	14.9	X	126.67640	356.30416	8.88251	9.68143	0.2491761	0.18494721	3.0509672	20	2 8.1	19.8
163509 2002 SU_{60}	15.0	X	353.80541	270.80485	157.16761	10.49963	0.0582159	0.17598830	3.1536502	20	—	—
163510 2002 TR	15.3	X	83.40869	325.17758	110.14909	5.27940	0.1761571	0.18814474	3.0163009	20	3 4.1	19.3
163511 2002 TL_{1}	15.8	X	214.16990	344.82395	36.25528	2.38883	0.0805460	0.20326229	2.8648255	20	5 6.3	20.1
163512 2002 TR_{3}	14.9	X	38.19408	245.17615	161.57264	3.11708	0.1172741	0.17705621	3.1409567	20	—	—
163513 2002 TT_{3}	15.9	X	139.02747	171.76444	147.27015	1.41368	0.2537762	0.18270389	3.0758904	20	—	—
163514 2002 TN_{6}	15.4	X	75.74199	307.87985	113.80475	3.16156	0.1865967	0.18447057	3.0562203	20	2 5.9	19.2
163515 2002 TR_{6}	14.9	X	49.96247	247.14627	153.95153	5.97953	0.1419780	0.17731505	3.1378991	20	—	—
163516 2002 TP_{13}	15.1	X	159.95847	266.59668	70.76863	3.52855	0.0850056	0.18669262	3.0319215	20	1 20.5	19.7
163517 2002 TX_{13}	15.0	X	201.81369	250.34187	99.27440	3.33884	0.0777098	0.19435443	2.9517059	20	3 17.8	19.5
163518 2002 TF_{18}	15.5	X	196.27755	280.16677	25.31322	2.31244	0.0771464	0.18925935	3.0044465	20	1 19.3	20.1
163519 2002 TW_{20}	15.0	X	252.65463	169.66413	130.84316	3.08344	0.0811770	0.19632001	2.9319710	20	3 11.1	19.4
163520 2002 TY_{20}	15.3	X	56.14231	281.01771	167.16992	5.74337	0.1486664	0.18491496	3.0513219	20	2 2.5	18.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
163521 2002 TX_{21}	15.9	X	346.13890	301.44075	51.10881	2.48862	0.0917541	0.21829718	2.7317271	20	10 2.3	19.0
163522 2002 TD_{22}	15.4	X	209.74866	163.02562	144.93219	1.17792	0.1049007	0.19119534	2.9841308	20	2 3.5	20.0
163523 2002 TU_{23}	15.3	X	210.14928	198.36016	164.50285	2.14906	0.0930782	0.19847667	2.9106930	20	4 9.7	19.8
163524 2002 TA_{25}	15.8	X	146.14831	240.20130	123.29437	1.84123	0.1834436	0.18906122	3.0065452	20	2 13.9	20.5
163525 2002 TM_{26}	14.1	X	329.80339	32.97382	28.58544	15.41590	0.0413036	0.16884910	3.2419294	20	11 19.8	18.6
163526 2002 TP_{38}	14.4	X	141.64172	302.39124	32.70839	10.66483	0.1436580	0.18228212	3.0806333	20	1 5.8	19.2
163527 2002 TA_{40}	14.2	X	34.73229	359.91474	39.10587	19.21322	0.1382246	0.17441246	3.1726175	20	—	—
163528 2002 TR_{41}	14.9	X	131.55062	218.27384	102.96220	2.52414	0.1361935	0.17960314	3.1111916	20	—	—
163529 2002 TV_{41}	15.1	X	102.47793	188.94838	193.82704	8.68472	0.1067644	0.18295194	3.0731095	20	1 11.6	19.6
163530 2002 TU_{42}	15.0	X	46.09651	215.01026	195.94612	4.82726	0.1526621	0.17746571	3.1361230	20	—	—
163531 2002 TP_{44}	15.2	X	130.00111	201.88601	187.61276	6.61993	0.1555183	0.18808689	3.0169194	20	2 24.9	19.8
163532 2002 TR_{44}	15.0	X	117.98553	238.85579	195.08008	9.41572	0.0369183	0.19213343	2.9744095	20	3 22.3	19.1
163533 2002 TY_{46}	14.3	X	60.58516	6.68033	43.22047	16.89089	0.0599542	0.17934538	3.1141719	20	—	—
163534 2002 TQ_{51}	14.6	X	60.82129	359.22559	48.17863	18.50731	0.2030250	0.17765587	3.1338847	20	—	—
163535 2002 TM_{55}	15.0	X	25.23421	335.46838	155.32420	8.56312	0.0966241	0.18879917	3.0093266	20	2 3.5	18.6
163536 2002 TT_{55}	15.2	X	35.11102	21.83822	47.60145	2.91041	0.0998193	0.17853121	3.1236327	20	—	—
163537 2002 TU_{55}	14.9	X	322.52274	252.44727	184.34922	2.81518	0.0571008	0.16890351	3.2412331	20	12 2.2	19.2
163538 2002 TF_{67}	15.0	X	75.70988	261.26566	144.95526	25.21465	0.3585487	0.18129882	3.0917621	20	2 13.1	18.7
163539 2002 TP_{67}	15.1	X	133.17668	1.95556	351.53765	9.42531	0.1056742	0.18540953	3.0458933	20	1 15.1	19.7
163540 2002 TO_{76}	15.3	X	264.87232	151.23420	244.45854	5.03179	0.0764501	0.21042460	2.7994435	20	7 25.0	19.1
163541 2002 TC_{77}	14.7	X	198.70045	50.18657	223.85534	8.59949	0.0606054	0.18261955	3.0768374	20	—	—
163542 2002 TQ_{84}	14.7	X	92.78356	151.26090	164.23505	14.51106	0.1840486	0.17459655	3.1703870	20	12 30.8	20.0
163543 2002 TY_{84}	15.0	X	50.66477	254.63430	168.23227	13.63237	0.0953916	0.18031068	3.1030474	20	—	—
163544 2002 TK_{85}	14.9	X	71.43247	224.62956	174.93063	13.64888	0.1689269	0.18047855	3.1011229	20	—	—
163545 2002 TJ_{88}	15.1	X	214.43168	297.88510	333.41495	8.21945	0.1022852	0.18576143	3.0420453	20	—	—
163546 2002 TL_{90}	15.0	X	199.66271	331.47520	0.75479	9.19599	0.0775145	0.19160727	2.9798523	20	2 24.7	19.5
163547 2002 TC_{94}	15.5	X	221.34993	64.70529	193.90768	6.07816	0.1072466	0.18713846	3.0271040	20	—	—
163548 2002 TR_{94}	15.7	X	81.32697	139.16281	308.69340	1.29075	0.1309672	0.19060679	2.9902704	20	3 7.6	19.6
163549 2002 TW_{94}	16.0	X	181.01419	119.42184	210.04110	0.77076	0.1381473	0.19129146	2.9831310	20	2 2.3	20.6
163550 2002 TO_{104}	14.8	X	57.28174	201.61891	206.69095	9.16527	0.0704403	0.18155892	3.0888086	20	—	—
163551 2002 TF_{107}	15.4	X	39.11035	207.60942	208.00034	4.52285	0.1884023	0.17600585	3.1534405	20	—	—
163552 2002 TK_{110}	15.0	X	131.58080	242.93020	93.32700	12.02991	0.1705601	0.18374345	3.0642778	20	—	—
163553 2002 TP_{112}	14.8	X	30.19927	155.40786	286.24848	9.72174	0.0985984	0.18202265	3.0835601	20	—	—
163554 2002 TU_{114}	15.0	X	114.98264	120.89295	216.38329	15.68415	0.2318272	0.18199743	3.0838450	20	—	—
163555 2002 TK_{117}	15.1	X	159.42595	58.01546	296.72052	8.90569	0.1166486	0.18967648	3.0000401	20	2 9.1	19.8
163556 2002 TY_{118}	15.0	X	40.09217	117.90582	331.22726	9.60942	0.1277214	0.18253043	3.0778388	20	1 9.9	18.8
163557 2002 TC_{121}	15.0	X	107.35486	160.04833	246.36376	7.20659	0.1205233	0.18720905	3.0263431	20	2 14.5	19.4
163558 2002 TQ_{123}	14.8	X	76.11562	79.20232	300.51487	10.33050	0.0988546	0.18119728	3.0929170	20	—	—
163559 2002 TK_{124}	15.3	X	71.79616	57.86961	329.33865	11.47274	0.1576052	0.18131447	3.0915841	20	—	—
163560 2002 TL_{124}	14.5	X	345.76227	298.67881	250.34662	9.81385	0.0273699	0.19362766	2.9590873	20	2 18.9	18.8
163561 2002 TN_{125}	14.8	X	143.27733	157.31717	235.50275	11.59728	0.1579535	0.19294202	2.9660935	20	3 9.3	19.7
163562 2002 TB_{127}	14.7	X	125.62577	55.77630	297.16485	8.18465	0.0669201	0.18503820	3.0499669	20	—	—
163563 2002 TM_{127}	14.6	X	262.36439	225.79704	300.75910	8.89707	0.0378638	0.17672537	3.1448754	20	—	—
163564 2002 TV_{128}	14.4	X	72.83329	124.21793	302.68462	8.08438	0.0789314	0.18672933	3.0315241	20	1 23.9	18.2
163565 2002 TK_{130}	15.3	X	109.82290	260.02997	105.43277	6.75620	0.1680986	0.18423387	3.0588374	20	1 9.4	19.6
163566 2002 TS_{134}	14.9	X	280.73229	208.46613	310.28843	6.70788	0.0595157	0.17721730	3.1390529	20	—	—
163567 2002 TU_{135}	14.8	X	82.02578	50.55320	310.68779	8.66411	0.0839639	0.17700814	3.1415253	20	—	—
163568 2002 TF_{139}	15.4	X	39.81329	41.92090	342.29002	7.99877	0.1605166	0.17371599	3.1810917	20	—	—
163569 2002 TY_{142}	14.9	X	233.08045	219.15728	51.13786	11.69902	0.0914243	0.18842558	3.0133030	20	1 15.7	19.7
163570 2002 TJ_{143}	15.1	X	49.14963	270.50855	171.85690	13.29418	0.2015165	0.18206031	3.0831349	20	1 19.4	18.7
163571 2002 TT_{143}	15.2	X	2.10543	280.16659	149.48404	8.52360	0.1511423	0.17416350	3.1756402	20	—	—
163572 2002 TN_{157}	14.6	X	63.18512	296.29835	105.32548	10.58012	0.0964172	0.18017257	3.1046329	20	—	—
163573 2002 TL_{159}	14.6	X	355.49257	305.21497	114.83361	14.63863	0.1214722	0.17188089	3.2036937	20	—	—
163574 2002 TO_{159}	15.0	X	147.58367	171.59990	127.72458	12.55393	0.1636629	0.17974647	3.1095375	20	—	—
163575 2002 TE_{160}	14.9	X	168.86052	185.35281	102.13291	12.72286	0.0838730	0.17980077	3.1089115	20	—	—
163576 2002 TE_{164}	15.2	X	45.93665	233.75596	154.17421	17.03505	0.2225684	0.17484810	3.1673455	20	—	—
163577 2002 TL_{169}	14.9	X	151.66323	20.26692	276.49681	9.95903	0.0527819	0.18056768	3.1001024	20	—	—
163578 2002 TK_{173}	14.8	X	151.50786	300.74080	54.55924	9.63175	0.1075989	0.18967166	3.0000909	20	2 6.2	19.5
163579 2002 TV_{174}	14.4	X	2.94116	29.79206	32.85750	22.80595	0.0813699	0.17514294	3.1637899	20	—	—
163580 2002 TR_{180}	14.8	X	98.72361	345.06954	12.31440	17.78833	0.2035899	0.17850707	3.1239142	20	—	—
163581 2002 TA_{183}	14.9	X	275.96063	74.17644	337.16443	6.79755	0.2221641	0.21471183	2.7620534	20	8 10.5	18.3
163582 2002 TD_{184}	15.2	X	145.51993	343.78876	331.28338	8.92137	0.0765722	0.18278999	3.0749244	20	—	—
163583 2002 TS_{185}	14.8	X	202.06522	114.94728	222.69596	10.21009	0.0741744	0.19482103	2.9469912	20	2 27.1	19.5
163584 2002 TG_{188}	15.3	X	114.31645	1.37011	337.53070	8.81637	0.0611312	0.18058095	3.0999505	20	—	—
163585 2002 TO_{188}	15.0	X	141.26480	320.54853	24.62739	11.12975	0.1546559	0.18371731	3.0645684	20	1 19.8	19.9
163586 2002 TQ_{189}	14.4	X	51.84935	179.09726	243.18299	9.26307	0.0465494	0.18323385	3.0699567	20	—	—
163587 2002 TX_{190}	14.6	X	143.66840	48.65903	344.85478	18.95693	0.0964745	0.18997978	2.9968462	20	3 9.0	19.1
163588 2002 TR_{191}	14.7	X	56.88680	189.25940	257.32796	15.95831	0.1753346	0.18325520	3.0697182	20	1 30.9	18.6
163589 2002 TG_{192}	14.2	X	30.00763	131.36760	347.05359	18.42488	0.2995457	0.18015230	3.1048659	20	2 12.3	16.9
163590 2002 TN_{192}	14.7	X	93.03365	63.54357	354.00355	15.60927	0.1092992	0.18500773	3.0503017	20	2 17.0	19.0
163591 2002 TO_{202}	15.3	X	182.23634	334.95135	42.55293	11.85024	0.0925214	0.19739821	2.9212848	20	4 2.6	19.8
163592 2002 TS_{203}	15.0	X	95.43493	150.26925	171.87635	13.03152	0.1169717	0.17517342	3.1634228	20	—	—
163593 2002 TA_{206}	15.0	X	73.98405	85.08967	303.01940	2.44060	0.1028123	0.17941556	3.1133598	20	—	—
163594 2002 TH_{207}	15.7	X	72.90942	48.95859	340.65071	3.71407	0.2917636	0.18005869	3.1059419	20	1 9.2	19.3
163595 2002 TM_{209}	15.4	X	110.17905	230.73170	136.20552	11.17479	0.1089774	0.18321988	3.0701127	20	1 3.6	19.7
163596 2002 TS_{214}	14.9	X	190.52527	250.28996	67.50353	12.39038	0.1656821	0.18980954	2.9986379	20	2 1.2	20.0
163597 2002 TO_{225}	14.6	X	102.80359	280.54677	48.80084	23.43281	0.1573125	0.17525473	3.1624442	20	—	—
163598 2002 TQ_{230}	15.7	X	209.92215	214.40341	142.27821	19.72454	0.3004540	0.20041065	2.8919372	20	3 31.5	21.2
163599 2002 TG_{236}	14.3	X	152.90514	61.89890	247.89382	15.77041	0.1239012	0.18176965	3.0864208	20	—	—
163600 2002 TF_{238}	14.6	X	109.31968	132.22846	236.41388	9.85604	0.1059630	0.18114800	3.0934779	20	1 3.3	19.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
163601 2002 TJ_{238}	14.9	X	228.71388	158.73072	238.67128	7.50266	0.2231787	0.20308522	2.8664905	20	5 31.6	19.5
163602 2002 TW_{238}	15.2	X	188.17646	197.35783	223.88926	1.25018	0.2824230	0.19699890	2.9252311	20	5 26.7	20.5
163603 2002 TD_{242}	15.2	X	89.25602	213.61479	152.86035	11.31128	0.1438984	0.17901083	3.1180507	20	—	—
163604 2002 TM_{242}	14.9	X	161.29620	291.71653	78.64891	11.57002	0.1336175	0.19083690	2.9878663	20	3 8.6	19.8
163605 2002 TU_{243}	15.9	X	140.78738	2.24040	60.23353	1.30062	0.0373705	0.19498737	2.9453149	20	4 5.7	20.0
163606 2002 TY_{257}	15.0	X	77.53922	192.75245	170.96335	5.99630	0.1164645	0.17614749	3.1517498	20	—	—
163607 2002 TD_{258}	15.1	X	103.35489	274.21015	165.24356	4.69904	0.1388255	0.18903942	3.0067764	20	3 27.4	19.3
163608 2002 TW_{259}	15.3	X	105.57893	14.59231	68.36348	0.51350	0.1010213	0.19082340	2.9880072	20	3 28.5	19.5
163609 2002 TC_{260}	15.6	X	81.12387	210.23876	199.01416	5.12807	0.1617477	0.18206322	3.0831020	20	1 24.1	19.6
163610 2002 TX_{260}	14.3	X	71.60030	346.35912	69.43852	26.04405	0.2014151	0.17853959	3.1235348	20	1 30.4	18.6
163611 2002 TW_{263}	15.0	X	101.37572	115.15229	249.52325	8.96539	0.0898478	0.18056158	3.1001722	20	—	—
163612 2002 TW_{276}	15.3	X	86.24784	32.24775	6.02749	5.66659	0.1689362	0.18213908	3.0822459	20	1 21.6	19.4
163613 2002 TM_{278}	14.4	X	133.56999	147.95679	280.56679	9.11583	0.1866689	0.19277011	2.9678567	20	4 15.2	19.3
163614 2002 TQ_{280}	14.7	X	133.19006	60.92958	286.26374	7.85441	0.1234157	0.18311091	3.0713306	20	1 7.9	19.2
163615 2002 TG_{281}	15.1	X	149.47627	35.11687	331.65530	5.18128	0.1237758	0.18803826	3.0174395	20	2 16.1	19.7
163616 2002 TO_{281}	14.6	X	62.58601	153.16709	283.85487	7.01861	0.2004936	0.18209517	3.0827414	20	2 5.1	18.2
163617 2002 TC_{282}	14.9	X	5.64000	138.00611	315.51897	4.19111	0.1387328	0.17579752	3.1559314	20	—	—
163618 2002 TG_{282}	14.5	X	59.30054	32.91032	13.16803	10.56827	0.1291242	0.17852763	3.1236744	20	—	—
163619 2002 TN_{286}	14.6	X	124.80046	45.08080	292.26084	8.96773	0.2152646	0.18050701	3.1007970	20	—	—
163620 2002 TE_{287}	14.5	X	48.65489	181.58398	259.18507	11.00226	0.1221600	0.18014002	3.1050070	20	1 10.0	18.4
163621 2002 TP_{294}	14.3	X	118.30101	103.12404	301.99626	9.20748	0.1256926	0.18653291	3.0336519	20	2 26.2	18.8
163622 2002 TQ_{300}	15.0	X	32.67665	290.08475	159.07582	15.81496	0.1717479	0.17963164	3.1108626	20	—	—
163623 Miknaitis	15.4	X	123.59098	127.69693	152.01903	9.81302	0.0539314	0.17141413	3.2095068	20	12 11.8	20.3
163624 Moorthy	15.3	X	108.81561	140.75333	168.71730	12.76944	0.0806567	0.17471998	3.1688937	20	12 31.6	20.3
163625 Munn	14.9	X	75.45873	208.51872	179.10482	18.51024	0.2028708	0.18024552	3.1037952	20	—	—
163626 Glatfelter	15.1	X	288.81827	25.89573	121.21700	2.36254	0.1583768	0.17219669	3.1997755	20	—	—
163627 2002 UB_{7}	14.6	X	95.48134	131.65794	170.90338	13.78271	0.1487130	0.17142259	3.2094012	20	12 16.3	19.9
163628 2002 UH_{8}	15.3	X	81.13913	307.25558	106.99838	10.74945	0.3193685	0.18238311	3.0794960	20	2 27.5	19.5
163629 2002 UU_{9}	14.8	X	129.67113	291.09814	72.19118	8.43552	0.0918807	0.18440407	3.0569550	20	1 20.4	19.3
163630 2002 UH_{11}	15.5	X	162.65014	286.15784	83.62468	2.19220	0.0605287	0.19044208	2.9919943	20	2 28.9	20.0
163631 2002 UN_{13}	14.8	X	77.25110	282.64549	111.51544	10.51183	0.1097579	0.17955390	3.1117605	20	—	—
163632 2002 UG_{18}	14.6	X	161.31055	120.37418	212.73557	21.37691	0.1456849	0.18621509	3.0371026	20	1 15.9	19.8
163633 2002 UT_{18}	14.9	X	48.03801	191.41541	188.23776	9.13490	0.0684648	0.17382165	3.1798024	20	—	—
163634 2002 UW_{25}	14.9	X	56.55161	116.52155	246.95232	7.95099	0.0805639	0.17336342	3.1854031	20	—	—
163635 2002 UL_{26}	15.1	X	150.22868	217.91113	148.99022	7.36877	0.1444811	0.18850167	3.0124921	20	2 18.4	19.8
163636 2002 UZ_{27}	15.1	X	145.45287	26.93101	353.26664	11.27995	0.1261493	0.19118879	2.9841989	20	2 29.3	19.7
163637 2002 UU_{38}	15.1	X	40.28863	64.93020	44.44671	1.89982	0.1517090	0.18203860	3.0833800	20	2 5.9	18.6
163638 2002 UN_{46}	15.7	X	257.75749	341.96190	26.79658	2.27688	0.0837877	0.20284622	2.8687417	20	6 9.8	19.8
163639 Tomnash	15.1	X	74.45180	75.11962	299.81400	15.62040	0.0693613	0.18355740	3.0663481	20	—	—
163640 Newberg	15.8	X	39.03657	273.67841	111.68710	8.28735	0.1559567	0.17404780	3.1770474	20	—	—
163641 Nichol	15.9	X	179.83797	149.40003	179.98871	10.26106	0.1063277	0.18935631	3.0034209	20	1 29.4	20.8
163642 2002 UA_{70}	14.8	X	58.49197	233.01058	154.00708	11.30870	0.0907950	0.17762678	3.1342268	20	—	—
163643 2002 VO_{2}	15.7	X	58.19759	305.05064	104.57735	2.70300	0.1900613	0.17882875	3.1201669	20	—	—
163644 2002 VS_{3}	15.5	X	103.62110	84.04220	291.54633	3.72357	0.1559453	0.18123044	3.0925398	20	1 12.9	19.6
163645 2002 VB_{10}	15.0	X	143.31632	9.44993	7.36335	9.09084	0.1244806	0.18761322	3.0219951	20	2 24.5	19.6
163646 2002 VQ_{12}	15.6	X	45.03861	132.23374	275.66590	2.80071	0.1842740	0.17637403	3.1490505	20	—	—
163647 2002 VE_{25}	15.4	X	321.47158	84.02557	223.01350	14.21754	0.1573169	0.20625722	2.8370258	20	6 7.9	18.8
163648 2002 VV_{25}	15.0	X	60.93298	132.53715	250.11426	4.41005	0.1404357	0.17495995	3.1659954	20	—	—
163649 2002 VR_{36}	15.7	X	136.68995	214.97012	175.13213	1.50015	0.1780807	0.18844044	3.0131446	20	3 6.6	20.4
163650 2002 VB_{46}	14.9	X	48.64169	200.93861	204.48082	19.35372	0.1398735	0.17527722	3.1621738	20	—	—
163651 2002 VO_{62}	14.8	X	74.21452	69.61548	312.98224	4.78479	0.1050754	0.17652509	3.1472537	20	—	—
163652 2002 VQ_{68}	14.9	X	150.61619	35.29992	345.17354	11.04272	0.0492051	0.18885784	3.0087034	20	2 27.6	19.3
163653 2002 VK_{70}	15.0	X	43.54074	241.64373	126.00573	6.33547	0.1515285	0.17199992	3.2022155	20	—	—
163654 2002 VT_{73}	15.0	X	72.57517	179.14615	219.84059	14.83546	0.0535333	0.17783004	3.1318380	20	—	—
163655 2002 VH_{79}	15.2	X	93.96387	335.18580	87.24232	9.65898	0.2426171	0.18381983	3.0634290	20	3 14.4	19.7
163656 2002 VX_{85}	14.2	X	96.99285	54.46478	354.64166	21.39049	0.2444459	0.18082932	3.0971113	20	3 1.7	18.7
163657 2002 VB_{86}	15.2	X	62.68899	63.72163	341.54527	5.43626	0.1413911	0.18058700	3.0998813	20	—	—
163658 2002 VB_{87}	15.6	X	22.52041	89.99642	343.24157	3.89445	0.1554423	0.17446728	3.1719528	20	—	—
163659 2002 VX_{111}	16.4	X	39.33338	62.96960	297.76808	0.70647	0.1023324	0.22453300	2.6809122	20	12 31.5	20.0
163660 2002 VQ_{116}	14.6	X	160.44940	332.09930	272.65371	12.31581	0.0240761	0.16813895	3.2510513	20	12 8.8	19.3
163661 2002 VQ_{120}	14.4	X	141.93339	41.01099	20.80966	10.63482	0.0994094	0.19134838	2.9825394	20	4 11.6	18.7
163662 2002 VR_{120}	15.0	X	195.89540	335.74958	28.37361	15.39954	0.1717271	0.19334800	2.9619400	20	3 30.6	20.0
163663 2002 VV_{122}	15.0	X	130.12495	349.71846	27.92731	15.04327	0.1343577	0.18451531	3.0557262	20	2 17.5	19.8
163664 2002 VD_{127}	15.2	X	82.33645	99.39033	240.80962	5.30194	0.1444091	0.17148357	3.2086403	20	—	—
163665 2002 VN_{131}	16.1	X	33.61260	221.03850	181.43540	1.59163	0.1296479	0.17242417	3.1969607	20	—	—
163666 2002 WD	16.5	X	91.70103	154.09885	337.16868	18.41964	0.0840619	0.35846829	1.9626170	20	4 20.5	19.0
163667 2002 WC_{1}	19.7	X	72.90399	81.86598	42.22257	4.65235	0.5775683	0.23907652	2.5710554	20	6 13.2	23.8
163668 2002 WF_{7}	15.5	X	44.82846	255.43108	120.94855	1.24835	0.2196736	0.17209505	3.2010354	20	—	—
163669 2002 WK_{8}	15.4	X	126.59465	244.58530	136.68655	3.68242	0.1802959	0.18425568	3.0585961	20	2 16.5	20.0
163670 2002 WL_{12}	14.9	X	186.10986	212.72824	176.38708	15.72151	0.1746097	0.19356097	2.9597670	20	4 19.8	19.9
163671 2002 WD_{13}	14.8	X	145.83825	225.35081	118.60052	11.90303	0.1375394	0.18391648	3.0623556	20	1 18.4	19.5
163672 2002 XO_{3}	15.3	X	161.07536	259.13071	83.38719	5.07888	0.1378454	0.18470338	3.0536517	20	2 1.3	20.1
163673 2002 XS_{7}	14.3	X	78.03305	139.56263	278.72679	10.14948	0.2213811	0.18188244	3.0851446	20	2 6.9	18.3
163674 2002 XP_{12}	14.9	X	67.97537	53.64576	32.04343	12.04805	0.0833317	0.18225792	3.0809059	20	2 16.4	19.1
163675 2002 XC_{31}	14.9	X	46.18486	328.44484	34.34617	5.92406	0.1260447	0.16829662	3.2490205	20	12 31.3	19.5
163676 2002 XG_{62}	15.2	X	77.56982	37.84477	19.54340	4.55570	0.1015726	0.17977593	3.1091978	20	1 24.1	19.3
163677 2002 XP_{62}	15.0	X	130.90811	223.90838	152.42432	4.89540	0.2584703	0.18458900	3.0549130	20	2 22.1	19.8
163678 2002 XT_{65}	17.2	X	182.25577	97.85289	342.38019	18.26247	0.0939964	0.36671735	1.9330737	20	6 19.9	20.1
163679 2002 XG_{84}	19.1	X	225.70158	349.67825	29.80646	5.05770	0.4714603	0.53931229	1.4947750	20	4 18.8	21.6
163680 2002 XK_{84}	13.7	X	54.74921	328.68946	88.79163	25.74602	0.3097270	0.17728520	3.1382514	20	1 14.1	16.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
163681 2002 XM_{101}	15.7	X	85.26515	242.20227	186.67677	0.94649	0.1818413	0.18195114	3.0843680	20	2 26.9	19.8
163682 2002 XV_{109}	15.1	X	188.56245	326.55607	44.49001	10.13126	0.0835192	0.19098812	2.9862888	20	4 1.1	19.7
163683 2002 YP_{2}	19.0	X	315.37473	281.36158	52.49650	20.62386	0.6882552	0.49767581	1.5770242	20	4 5.3	21.4
163684 2002 YX_{22}	15.4	X	141.13559	238.19434	156.53316	1.13224	0.2620043	0.18611401	3.0382021	20	3 22.9	20.4
163685 2002 YK_{33}	15.3	X	124.06578	46.36810	348.89196	2.25334	0.1327872	0.18476843	3.0529348	20	2 25.1	19.8
163686 2003 AM_{21}	17.0	X	269.66276	203.99779	334.85495	2.56543	0.1074866	0.27846183	2.3225172	20	—	—
163687 2003 AC_{35}	15.4	X	107.11527	204.10936	196.56136	3.81654	0.2720066	0.18213033	3.0823446	20	2 29.4	20.1
163688 2003 AC_{92}	15.3	X	68.83920	58.30868	7.99927	9.70711	0.2238627	0.17812969	3.1283248	20	2 11.1	19.2
163689 2003 BG_{2}	15.4	X	77.28099	238.12244	149.83969	17.96107	0.2896093	0.17816766	3.1278804	20	1 12.9	19.4
163690 2003 BJ_{7}	16.5	X	41.90715	6.88852	130.70394	24.66690	0.0776266	0.35352372	1.9808747	20	2 11.4	17.9
163691 2003 BB_{43}	17.1	X	207.22657	60.64880	148.99707	40.87643	0.5223738	0.26266818	2.4147068	20	11 30.5	22.5
163692 2003 CY_{18}	18.0	X	319.84415	180.88146	114.41089	7.20007	0.4107013	0.52272395	1.5262340	20	3 10.2	19.2
163693 Atira	16.3	X	186.94617	252.91201	103.88631	25.61992	0.3221248	1.54508952	0.7410263	20	—	—
163694 2003 DP_{13}	17.3	X	343.41045	283.18706	326.68570	9.81651	0.5433265	0.22956491	2.6415919	20	2 14.9	19.6
163695 2003 EB_{7}	15.4	X	310.79807	304.76541	270.12626	3.42871	0.0675062	0.17144520	3.2091191	20	2 7.6	19.9
163696 2003 EB_{50}	16.5	X	128.11737	278.93195	65.64154	29.50276	0.5189948	0.50059328	1.5708910	20	—	—
163697 2003 EF_{54}	20.0	X	123.85916	353.71440	268.50268	2.95165	0.4728980	0.48289195	1.6090495	20	—	—
163698 2003 EA_{62}	17.0	X	245.45545	257.90402	19.44754	5.26620	0.2502853	0.27686638	2.3314310	20	1 16.9	21.0
163699 2003 FW_{9}	16.8	X	64.28089	107.75049	146.90712	1.96170	0.1730556	0.30562512	2.1827803	20	10 11.3	19.5
163700 2003 FP_{49}	16.4	X	321.83438	205.12366	107.99026	6.71473	0.1918850	0.29624107	2.2286363	20	6 15.9	18.0
163701 2003 FC_{53}	16.5	X	15.97286	22.85058	231.61734	4.10372	0.1893952	0.29611097	2.2292891	20	7 21.3	18.0
163702 2003 FR_{72}	12.2	X	198.11504	84.99977	56.75501	19.81555	0.0215336	0.08099680	5.2904281	20	9 20.1	19.5
163703 2003 FY_{82}	16.2	X	12.06062	163.53937	124.91334	5.67453	0.1736026	0.29983370	2.2107981	20	9 11.5	17.9
163704 2003 FL_{100}	16.4	X	304.38549	192.28899	115.41083	6.24178	0.1782241	0.29413554	2.2392593	20	5 7.7	18.8
163705 2003 FR_{107}	16.4	X	254.69228	85.16960	152.27748	4.27604	0.2007045	0.27380589	2.3487720	20	—	—
163706 2003 FF_{108}	17.0	X	254.29065	121.91131	149.14896	4.85497	0.2095261	0.27860331	2.3217308	20	1 16.4	20.7
163707 2003 FS_{113}	16.9	X	359.41889	268.75055	346.22246	4.59518	0.1438331	0.29574359	2.2311349	20	6 7.1	18.6
163708 2003 FF_{117}	16.5	X	332.43355	84.99974	138.90173	4.61508	0.1361175	0.28516332	2.2859862	20	2 24.8	18.7
163709 2003 FY_{118}	16.7	X	57.78441	70.65390	175.32992	6.10771	0.1232661	0.30276379	2.1965112	20	9 11.4	19.1
163710 2003 GK_{5}	17.0	X	273.85069	42.44956	206.20053	2.61233	0.1878794	0.27999325	2.3140408	20	1 7.9	20.5
163711 2003 GH_{6}	16.7	X	343.52307	79.86598	161.80056	2.65505	0.1112307	0.28930030	2.2641409	20	4 15.3	18.7
163712 2003 GB_{7}	17.9	X	151.44043	24.41822	172.03331	3.57983	0.1320001	0.31193912	2.1532254	20	10 23.5	20.9
163713 2003 GW_{7}	16.3	X	307.64501	153.71848	172.77310	9.08145	0.2188651	0.29503190	2.2347215	20	6 3.7	18.5
163714 2003 GT_{23}	16.4	X	324.53578	76.09748	227.65934	3.05586	0.1779722	0.29475109	2.2361406	20	6 7.7	18.1
163715 2003 HQ_{2}	16.2	X	296.69028	254.39649	51.86386	6.69175	0.2295422	0.28868850	2.2673386	20	4 14.2	18.8
163716 2003 HA_{5}	16.2	X	247.64229	210.89784	73.85620	7.84683	0.1049572	0.27819028	2.3240283	20	2 5.5	19.6
163717 2003 HC_{8}	16.5	X	337.23427	54.10526	212.78581	6.43458	0.1034220	0.29142934	2.2531003	20	5 14.0	18.4
163718 2003 HJ_{21}	16.6	X	357.97475	174.41184	151.84066	2.60713	0.1498107	0.30283507	2.1961665	20	10 10.6	18.2
163719 2003 HM_{21}	16.2	X	318.90670	258.15969	35.92990	6.74345	0.1898196	0.29093649	2.2556441	20	5 7.1	18.2
163720 2003 HW_{25}	17.1	X	296.79827	51.97227	232.95255	3.82273	0.1273228	0.28807448	2.2705594	20	3 28.1	19.8
163721 2003 HQ_{27}	16.9	X	298.65240	61.46162	226.92969	2.79339	0.1972138	0.28767698	2.2726505	20	3 24.8	19.6
163722 2003 HC_{29}	16.7	X	350.29342	220.62084	358.32439	4.16900	0.1112404	0.28763156	2.2728897	20	3 22.4	18.5
163723 2003 HA_{39}	16.6	X	316.14099	267.61756	26.52061	3.32366	0.1312618	0.29100460	2.2552922	20	5 12.3	18.6
163724 2003 HY_{47}	16.2	X	314.60186	271.29869	48.04774	6.10413	0.1382710	0.29470469	2.2363753	20	6 18.7	18.3
163725 2003 HA_{52}	16.5	X	289.26076	164.56467	115.12865	6.35020	0.1570001	0.28395136	2.2924863	20	3 10.9	19.5
163726 2003 HX_{54}	16.1	X	228.75588	278.10197	52.60806	7.55716	0.1449747	0.28253523	2.3001402	20	3 14.6	19.6
163727 2003 JV_{2}	16.6	X	350.79623	138.38550	101.26096	7.19415	0.0685524	0.28866583	2.2674574	20	5 1.9	19.0
163728 2003 JP_{3}	16.9	X	6.71128	291.18463	42.93600	3.96627	0.1263804	0.30577626	2.1820609	20	11 4.0	18.9
163729 2003 JQ_{7}	17.2	X	35.26274	68.98528	158.03445	5.36378	0.1166597	0.29516498	2.2340497	20	7 4.5	19.3
163730 2003 JT_{15}	16.7	X	298.37963	285.37582	40.91839	5.30681	0.1933127	0.29202269	2.2500473	20	5 20.1	19.2
163731 2003 KD	12.6	X	127.59370	97.77724	158.55123	13.67780	0.0237833	0.08342023	5.1874645	20	11 4.1	19.7
163732 2003 KP_{2}	15.4	X	232.37387	190.61789	193.42020	44.64166	0.6963787	0.21613492	2.7499160	20	4 25.1	21.8
163733 2003 KJ_{4}	16.7	X	213.86881	253.94781	90.89018	6.93341	0.1400833	0.28049001	2.3113078	20	3 18.3	20.3
163734 2003 KD_{6}	17.1	X	222.91728	217.20116	60.14626	1.32107	0.1861182	0.27305487	2.3530768	20	—	—
163735 2003 KN_{7}	16.7	X	226.29885	170.77095	135.11267	6.90912	0.1326414	0.27594708	2.3366062	20	2 7.1	20.2
163736 2003 KX_{10}	17.2	X	214.51875	145.01119	152.09485	2.75551	0.2219643	0.27142647	2.3624788	20	1 16.3	21.2
163737 2003 KL_{16}	16.7	X	187.11150	211.60437	88.45462	3.18893	0.2143972	0.26776021	2.3839951	20	—	—
163738 2003 KZ_{17}	16.6	X	255.38464	176.88310	110.52861	4.38646	0.2433924	0.27680090	2.3317987	20	2 5.5	20.4
163739 2003 KE_{19}	16.8	X	262.16986	145.72632	131.95477	6.53168	0.2048997	0.27778068	2.3263123	20	2 1.3	20.1
163740 2003 LU_{2}	16.6	X	349.63319	358.00484	244.36621	4.27871	0.1258142	0.28745115	2.2738406	20	4 25.1	18.5
163741 2003 LV_{3}	16.8	X	306.42882	294.72117	290.31793	1.96619	0.1139552	0.27808350	2.3246232	20	1 23.5	19.5
163742 2003 MQ	14.2	X	254.53658	104.02261	264.66831	23.96680	0.3318185	0.21774115	2.7363756	20	5 6.9	19.2
163743 2003 MN_{3}	16.3	X	223.16812	180.19799	85.11918	4.27342	0.2635298	0.26730516	2.3867000	20	—	—
163744 2003 MY_{3}	16.5	X	232.28229	292.17492	356.71159	1.93669	0.1994607	0.27114684	2.3641027	20	1 21.7	20.5
163745 2003 MY_{8}	15.5	X	113.94371	52.62153	270.17225	9.88245	0.0743849	0.25469186	2.4648623	20	—	—
163746 2003 MO_{11}	16.3	X	222.25876	12.73113	263.98822	1.77065	0.1976536	0.26823439	2.3811847	20	—	—
163747 2003 ND_{2}	16.3	X	223.56742	310.29578	349.20788	2.18231	0.1919556	0.27037923	2.3685752	20	1 27.5	20.1
163748 2003 NM_{2}	16.4	X	236.38710	203.99367	79.12331	5.17696	0.1507622	0.27105432	2.3646407	20	1 20.1	20.1
163749 2003 NR_{7}	16.2	X	176.61931	102.79289	228.12455	1.26902	0.2212186	0.26511543	2.3998239	20	1 27.1	20.1
163750 2003 NO_{9}	15.9	X	104.96571	36.17787	309.79550	5.55490	0.1475333	0.25687516	2.4508758	20	—	—
163751 2003 OQ	16.3	X	186.05621	302.64301	21.96948	2.79130	0.2056552	0.26653649	2.3912864	20	1 27.7	20.2
163752 2003 OC_{1}	15.4	X	128.79121	192.44169	225.11441	24.49590	0.2123756	0.26735573	2.3863989	20	3 25.7	19.3
163753 2003 OZ_{4}	16.5	X	159.63241	192.77673	173.91372	2.30937	0.2201578	0.26580712	2.3956589	20	2 24.9	20.3
163754 2003 OD_{6}	16.8	X	261.37683	88.24983	234.61682	1.30251	0.2607695	0.27803443	2.3248967	20	3 22.6	20.3
163755 2003 OG_{6}	17.0	X	123.16162	53.41253	305.08825	0.67585	0.2005864	0.25903826	2.4372128	20	1 8.3	20.2
163756 2003 OQ_{7}	16.4	X	101.15269	105.97079	204.52764	4.42094	0.1028052	0.25071014	2.4908913	20	—	—
163757 2003 OJ_{9}	15.8	X	168.46041	123.51141	203.66537	9.42805	0.1847994	0.26289544	2.4133150	20	1 11.9	19.8
163758 2003 OS_{13}	17.4	X	187.37342	244.23156	272.20816	41.54647	0.7410943	0.66809786	1.2959134	20	8 21.9	21.1
163759 2003 OV_{13}	16.4	X	115.16874	213.19630	142.69167	2.82402	0.1357129	0.25908879	2.4368959	20	—	—
163760 2003 OR_{14}	16.6	X	30.79615	212.04401	211.47076	13.06272	0.5037766	0.24750081	2.5123779	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
163761 2003 OV_{14}	16.3	X	73.52152	170.71223	218.84423	10.53524	0.1515273	0.25456624	2.4656732	20	—	—
163762 2003 OH_{20}	15.4	X	276.56543	101.04915	301.97604	12.45464	0.1647883	0.22764241	2.6564436	20	8 7.7	18.9
163763 2003 OD_{23}	15.8	X	356.31278	336.19040	359.51870	10.92445	0.2486445	0.23188999	2.6239046	20	10 11.9	18.0
163764 2003 OX_{27}	15.9	X	146.22525	1.06244	338.81218	6.02797	0.1602172	0.26009875	2.4305835	20	1 6.2	19.4
163765 2003 OY_{27}	16.3	X	122.08600	207.82910	115.05767	3.28094	0.2232802	0.25432123	2.4672565	20	—	—
163766 2003 OL_{28}	16.2	X	117.73598	239.91413	32.83337	2.90994	0.0660009	0.24604468	2.5222806	20	12 11.8	19.8
163767 2003 PP_{2}	16.4	X	118.73126	217.46785	129.84344	1.39541	0.2275697	0.25749520	2.4469398	20	—	—
163768 2003 PS_{2}	16.3	X	182.91737	57.46413	297.86742	5.59696	0.2623986	0.26856383	2.3792370	20	2 29.9	20.6
163769 2003 PA_{4}	16.1	X	110.98303	38.37920	325.71539	5.66279	0.1375062	0.25697813	2.4502211	20	—	—
163770 2003 PX_{4}	16.2	X	196.19358	207.25752	134.60060	8.81002	0.2319214	0.26933078	2.3747181	20	2 26.4	20.2
163771 2003 PT_{8}	16.5	X	161.65090	89.26818	228.71566	1.77153	0.2019261	0.26089677	2.4256245	20	—	—
163772 2003 PU_{12}	16.0	X	163.17960	254.36044	68.29993	3.01446	0.2266592	0.26067056	2.4270277	20	1 7.3	19.8
163773 2003 QZ_{1}	16.9	X	16.90479	200.88345	170.58860	1.67695	0.1422112	0.24172143	2.5522661	20	12 26.5	20.1
163774 2003 QZ_{3}	16.2	X	104.93978	237.80274	169.72920	3.32990	0.1871450	0.26208118	2.4183111	20	2 15.4	19.1
163775 2003 QR_{8}	16.6	X	120.27060	146.59282	204.03555	4.02319	0.1951128	0.25734040	2.4479210	20	—	—
163776 2003 QL_{9}	16.2	X	346.83377	100.98441	286.53936	3.14633	0.1061876	0.24030785	2.5622652	20	11 25.9	19.1
163777 2003 QJ_{13}	16.1	X	202.34180	215.88703	141.76846	8.15234	0.0617453	0.26980275	2.3719478	20	3 23.5	19.4
163778 2003 QX_{16}	16.5	X	10.01596	233.58211	160.06921	5.84639	0.0944433	0.24495739	2.5297388	20	—	—
163779 2003 QQ_{19}	15.5	X	29.07680	135.06400	148.56354	14.01061	0.1127040	0.23217948	2.6217231	20	9 12.1	18.6
163780 2003 QZ_{19}	16.5	X	325.78769	207.32603	142.20288	4.11678	0.1829744	0.23024602	2.6363797	20	8 19.6	18.6
163781 2003 QA_{23}	16.3	X	202.17327	165.45571	217.11043	3.03422	0.2004948	0.27289344	2.3540046	20	4 19.8	20.2
163782 2003 QZ_{26}	15.4	X	1.01284	350.31615	345.01147	14.38878	0.2659087	0.23306085	2.6151092	20	10 20.7	18.0
163783 2003 QU_{33}	16.6	X	35.96599	217.38895	159.20115	2.68631	0.1624719	0.24711871	2.5149670	20	—	—
163784 2003 QY_{36}	16.3	X	134.38214	216.64699	163.31411	1.52006	0.1960938	0.26114424	2.4240919	20	2 15.9	19.8
163785 2003 QJ_{37}	16.4	X	192.38780	222.16457	43.43290	3.94020	0.1696300	0.25796784	2.4439501	20	—	—
163786 2003 QJ_{38}	16.7	X	118.74907	226.63069	147.63623	1.86128	0.1987142	0.25924317	2.4359283	20	1 22.8	19.7
163787 2003 QD_{39}	16.4	X	97.98095	41.93998	359.41852	2.05568	0.2195519	0.25820499	2.4424534	20	2 4.5	19.1
163788 2003 QA_{40}	15.6	X	345.13762	334.48747	337.22625	13.08243	0.1690681	0.22911917	2.6450168	20	8 7.4	18.2
163789 2003 QS_{42}	15.7	X	303.13581	268.22332	158.41815	12.12292	0.0823793	0.23831667	2.5765175	20	11 10.6	18.9
163790 2003 QE_{43}	16.9	X	4.80586	267.63299	105.25915	1.36532	0.1622545	0.23964009	2.5670229	20	12 13.0	19.8
163791 2003 QW_{44}	16.7	X	171.64794	262.83250	51.70893	2.91833	0.2100705	0.26120808	2.4236969	20	1 3.6	20.4
163792 2003 QV_{45}	16.3	X	160.35362	318.66010	66.58299	3.31434	0.1974790	0.26657350	2.3910651	20	3 20.0	20.1
163793 2003 QM_{51}	15.2	X	336.76144	346.38806	350.89168	9.31726	0.2008292	0.22868083	2.6483957	20	8 26.9	17.5
163794 2003 QE_{54}	15.9	X	156.07592	306.50532	23.85253	5.27635	0.1883558	0.25993014	2.4316345	20	1 7.4	19.6
163795 2003 QN_{57}	16.0	X	45.29594	212.18163	97.08046	2.28238	0.0851813	0.23988808	2.5652534	20	11 5.1	19.4
163796 2003 QU_{58}	16.3	X	127.76215	184.37565	80.96497	3.80619	0.1173284	0.24605535	2.5222077	20	12 14.2	20.2
163797 2003 QF_{62}	15.7	X	319.10156	178.03294	161.83865	15.49149	0.1680907	0.22541738	2.6738957	20	7 20.2	18.7
163798 2003 QU_{64}	15.6	X	26.78120	295.41366	36.45093	12.58828	0.1851077	0.23459357	2.6037062	20	11 20.9	18.9
163799 2003 QR_{69}	15.5	X	45.58428	32.24459	329.96968	6.68623	0.3516602	0.24000038	2.5644531	20	—	—
163800 Richardnorton	15.5	X	334.91398	103.73715	292.80223	13.45588	0.2020954	0.23647417	2.5898836	20	11 21.9	18.1
163801 2003 QQ_{73}	16.9	X	235.93839	117.01536	222.46173	3.48038	0.2009922	0.27552790	2.3389754	20	3 24.9	20.6
163802 2003 QG_{74}	16.6	X	107.48033	177.14336	225.50301	3.92002	0.1100651	0.26254599	2.4154560	20	1 30.4	19.7
163803 2003 QO_{79}	14.9	X	208.82184	359.53278	59.13684	13.05287	0.2532057	0.21341780	2.7732070	20	6 7.3	19.8
163804 2003 QQ_{88}	15.5	X	338.84016	351.92565	14.66343	8.83314	0.2394716	0.23059081	2.6337510	20	10 17.4	17.6
163805 2003 QX_{92}	15.8	X	132.54548	163.39054	111.44990	8.69685	0.1285909	0.24781364	2.5102631	20	12 30.7	19.6
163806 2003 QJ_{94}	15.9	X	187.85235	287.88479	38.03996	7.48433	0.2016852	0.26475159	2.4020221	20	2 1.6	19.9
163807 2003 QO_{100}	15.6	X	89.42371	284.43462	325.34193	13.16171	0.0575700	0.23422375	2.6064462	20	10 1.8	19.4
163808 2003 QC_{104}	15.7	X	32.73213	281.47964	106.90448	12.63543	0.1552340	0.24412002	2.5355204	20	—	—
163809 2003 QO_{105}	15.3	X	253.08293	293.89974	142.17477	13.43433	0.2472210	0.22519293	2.6756720	20	8 10.3	19.0
163810 2003 QQ_{109}	16.2	X	185.53530	291.21369	88.15949	6.46597	0.1956520	0.27104349	2.3647037	20	4 5.1	20.1
163811 2003 QH_{114}	15.3	X	325.57086	48.39076	280.36587	13.76033	0.1220882	0.22421358	2.6834578	20	7 20.4	18.2
163812 2003 RR_{1}	16.0	X	40.48157	305.06907	67.01564	9.31370	0.3058295	0.24451512	2.5327884	20	—	—
163813 2003 RW_{1}	15.3	X	5.71092	220.80775	152.11973	17.42711	0.1993885	0.23428360	2.6060023	20	12 20.2	18.7
163814 2003 RB_{2}	15.6	X	344.52153	331.80177	337.44222	12.72791	0.2545034	0.22803569	2.6533885	20	8 1.6	17.5
163815 2003 RR_{2}	15.9	X	324.53515	266.33573	161.29723	12.81587	0.1504773	0.24146380	2.5540812	20	12 17.9	18.7
163816 2003 RD_{4}	15.2	X	343.43733	357.08731	16.23762	20.27319	0.2466655	0.23437427	2.6053301	20	11 4.7	17.6
163817 2003 RP_{5}	15.4	X	287.63870	89.63867	278.68915	13.18050	0.1609322	0.22361790	2.6882212	20	7 8.2	18.8
163818 2003 RX_{7}	18.5	X	351.50476	245.82817	241.05562	10.39013	0.3545443	0.72334179	1.2290617	20	—	—
163819 Teleki	16.9	X	347.12150	340.93326	29.79124	2.98311	0.1541425	0.23582852	2.5946085	20	11 6.3	19.6
163820 2003 RU_{9}	15.4	X	58.05382	29.39665	287.40605	11.48923	0.2065866	0.23880628	2.5729947	20	12 15.1	19.3
163821 2003 RJ_{18}	16.3	X	111.08693	81.65944	268.18102	6.16356	0.1480178	0.25621968	2.4550541	20	—	—
163822 2003 RY_{21}	15.9	X	8.42330	291.03834	116.68024	7.63825	0.2929648	0.24489796	2.5301481	20	—	—
163823 2003 RJ_{24}	16.6	X	66.20715	330.25838	7.67326	1.92183	0.1122722	0.24432829	2.5340794	20	—	—
163824 2003 SE_{5}	16.6	X	348.86567	29.38787	1.97874	3.81780	0.2401620	0.23631154	2.5910717	20	12 21.5	19.0
163825 2003 SH_{5}	15.5	X	328.34768	288.14966	20.82978	14.73391	0.1777589	0.22316422	2.6918633	20	6 21.3	18.6
163826 2003 SK_{6}	15.3	X	282.76554	45.76052	11.54331	17.54105	0.2667481	0.22976350	2.6400695	20	8 30.5	18.6
163827 2003 SF_{12}	16.4	X	91.06414	160.81340	157.93263	3.20317	0.0903334	0.24660639	2.5184490	20	—	—
163828 2003 SY_{21}	15.7	X	42.08584	276.25529	89.72700	8.11700	0.3003808	0.24379801	2.5377526	20	—	—
163829 2003 SZ_{21}	15.7	X	288.58024	269.95836	133.64644	13.68338	0.1682134	0.22993196	2.6387798	20	8 31.4	18.7
163830 2003 SB_{26}	16.6	X	48.39049	268.12619	88.12054	1.13685	0.1367460	0.24378019	2.5378763	20	—	—
163831 2003 SB_{27}	16.3	X	176.34280	108.67244	210.35977	6.10991	0.1285160	0.26194659	2.4191393	20	1 6.4	19.9
163832 2003 SC_{27}	16.7	X	139.71671	179.64633	181.46268	4.67966	0.1137161	0.26050770	2.4280391	20	1 18.2	20.0
163833 2003 SE_{30}	16.5	X	347.19990	120.16031	194.07454	1.77824	0.0784884	0.22896221	2.6462254	20	8 10.4	19.4
163834 2003 SM_{36}	15.5	X	26.65887	273.74057	356.91218	12.53700	0.1503885	0.22741544	2.6582108	20	8 27.4	18.6
163835 2003 SF_{41}	15.8	X	296.90475	79.93559	339.92075	9.10837	0.2135670	0.23114824	2.6295150	20	9 27.5	18.6
163836 2003 SG_{41}	16.3	X	110.39601	40.92390	9.45586	11.73620	0.2384544	0.25858215	2.4400779	20	3 8.5	19.6
163837 2003 SN_{41}	16.6	X	341.71712	240.20363	172.51250	5.90263	0.2969930	0.23701653	2.5859311	20	—	—
163838 2003 ST_{41}	16.8	X	9.19374	43.09977	312.55744	12.93964	0.3074620	0.23728676	2.5839675	20	12 20.5	19.9
163839 2003 ST_{45}	16.3	X	167.24997	338.70315	52.79750	5.50480	0.1993541	0.26727399	2.3868855	20	4 3.4	20.1
163840 2003 SG_{47}	16.1	X	297.55325	87.76489	321.82104	11.60532	0.1839617	0.23238666	2.6201647	20	9 16.1	19.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
163841 2003 SL_{51}	16.6	X	43.40135	309.35643	37.76400	4.28031	0.1411143	0.24121966	2.5558042	20	12 29.1	20.1
163842 2003 SN_{55}	15.9	X	49.64828	294.34982	336.95212	11.39563	0.1888065	0.23351692	2.6117031	20	10 1.1	19.4
163843 2003 SP_{56}	15.6	X	153.93138	243.42050	340.70785	13.46370	0.1514662	0.24232844	2.5480022	20	11 12.8	20.0
163844 2003 SW_{57}	16.4	X	133.74683	193.16637	181.64226	2.36054	0.2062380	0.25867944	2.4394660	20	2 9.8	20.0
163845 2003 SP_{60}	16.2	X	70.65221	91.86303	201.83684	4.87170	0.1226975	0.23930798	2.5693973	20	11 20.9	19.8
163846 2003 SW_{63}	15.9	X	344.83888	32.02902	322.06602	15.08365	0.2119183	0.23384592	2.6092529	20	10 2.8	18.5
163847 2003 SF_{64}	16.8	X	38.97163	211.32790	146.71029	7.75286	0.1701973	0.24188862	2.5510899	20	—	—
163848 2003 SW_{65}	16.5	X	57.44743	280.65797	31.60724	6.72151	0.2852017	0.24082985	2.5585614	20	12 16.9	20.7
163849 2003 SG_{69}	15.6	X	316.77518	172.25073	202.12903	8.43223	0.0361494	0.23035883	2.6355189	20	9 15.9	19.0
163850 2003 SM_{79}	15.9	X	316.91949	81.22910	339.36751	11.45595	0.1867511	0.23588883	2.5941662	20	11 14.1	18.6
163851 2003 SK_{80}	16.5	X	316.79492	219.04664	184.18068	2.60904	0.1495882	0.23237270	2.6202696	20	10 24.3	19.0
163852 2003 SV_{81}	15.6	X	303.24898	324.95732	14.55191	13.85361	0.1125156	0.22391005	2.6858824	20	7 1.7	19.2
163853 2003 SW_{82}	17.7	X	47.49516	281.34032	84.08167	0.28445	0.2487726	0.24420391	2.5349397	20	—	—
163854 2003 SX_{83}	16.8	X	297.83429	356.37988	46.48279	2.66123	0.0934774	0.23077220	2.6323707	20	9 24.5	19.8
163855 2003 SU_{86}	16.6	X	16.15478	227.20451	151.11992	5.66563	0.1656216	0.24239929	2.5475056	20	—	—
163856 2003 SP_{90}	15.8	X	188.23074	310.61374	51.36969	7.00913	0.1386229	0.26640219	2.3920901	20	3 15.9	19.5
163857 2003 SF_{91}	15.8	X	216.31061	139.80239	336.05586	13.52519	0.0951183	0.22887905	2.6468664	20	9 7.3	19.7
163858 2003 SU_{93}	15.6	X	66.58521	271.72399	11.29426	12.26229	0.1304411	0.23410921	2.6072963	20	10 29.9	19.3
163859 2003 SK_{95}	15.2	X	329.79018	342.47473	353.36132	14.57958	0.1043348	0.22658449	2.6647058	20	8 16.6	18.3
163860 2003 SS_{95}	15.8	X	9.83344	22.36989	219.33574	8.34508	0.0960332	0.21753738	2.7380841	20	6 6.0	19.0
163861 2003 SK_{97}	15.8	X	205.46806	7.05294	178.37207	11.99901	0.0659611	0.24154366	2.5535182	20	12 1.9	19.5
163862 2003 SX_{98}	15.2	X	74.60287	291.22582	298.84773	14.21352	0.1744007	0.23084612	2.6318088	20	9 2.7	19.2
163863 2003 SS_{101}	15.4	X	204.51283	175.59964	246.71830	8.04153	0.1318259	0.21710129	2.7417496	20	6 14.8	19.7
163864 2003 SN_{102}	15.9	X	112.33873	301.70559	319.23607	12.11402	0.1514471	0.24102537	2.5571775	20	11 21.5	20.2
163865 2003 SB_{107}	16.1	X	49.23806	284.03046	3.38687	16.88030	0.2494744	0.23490540	2.6014015	20	10 28.7	19.9
163866 2003 SE_{111}	15.8	X	222.26623	328.43129	120.63696	4.98415	0.2841792	0.21838760	2.7309729	20	7 24.7	20.4
163867 2003 SM_{132}	16.4	X	13.00035	148.59651	172.32680	0.96938	0.1388046	0.23113599	2.6296079	20	10 10.2	19.2
163868 2003 SF_{134}	16.2	X	112.27645	35.18051	216.39924	4.36813	0.2061075	0.24253751	2.5465377	20	11 15.9	20.5
163869 2003 SK_{136}	16.5	X	6.97718	275.05019	69.69974	2.94508	0.1236854	0.23519914	2.5992351	20	11 1.8	19.4
163870 2003 SG_{137}	16.4	X	317.18782	199.86319	198.34083	1.51620	0.2161360	0.23128033	2.6285138	20	10 13.1	18.5
163871 2003 SE_{143}	15.5	X	246.75730	304.45636	47.77634	7.38365	0.0764692	0.21373501	2.7704624	20	5 6.9	19.4
163872 2003 SD_{146}	15.5	X	305.61428	51.72613	12.76025	14.36302	0.1554842	0.23222692	2.6213661	20	10 28.1	18.2
163873 2003 SN_{147}	15.4	X	309.52593	167.01763	213.96215	13.35029	0.2668606	0.22599536	2.6693347	20	8 13.5	18.2
163874 2003 SW_{147}	15.2	X	252.15878	231.18188	215.72686	21.28188	0.0528689	0.22708216	2.6608111	20	9 16.7	19.2
163875 2003 SE_{162}	16.5	X	1.49158	226.62762	150.06434	5.69060	0.2292622	0.23645027	2.5900581	20	12 22.5	19.3
163876 2003 SM_{162}	16.0	X	176.88379	228.38796	208.81650	3.48398	0.0430370	0.21494413	2.7600629	20	6 6.3	20.0
163877 2003 SF_{163}	16.6	X	314.22443	222.41055	161.55744	3.51037	0.1868357	0.22970379	2.6405270	20	9 16.4	19.1
163878 2003 SH_{163}	16.5	X	105.96506	149.49105	153.39954	3.23579	0.1820655	0.24478444	2.5309303	20	—	—
163879 2003 SY_{168}	15.8	X	43.18496	248.94323	85.80605	9.16630	0.1456448	0.24029651	2.5623458	20	12 13.5	19.3
163880 2003 SK_{169}	16.5	X	77.86585	268.68145	136.09218	3.99326	0.2148152	0.25368349	2.4713898	20	1 6.5	18.8
163881 2003 SK_{170}	16.4	X	222.69111	310.77611	23.64013	2.47106	0.2384665	0.27264502	2.3554343	20	3 8.1	20.4
163882 2003 SE_{173}	16.7	X	16.74607	257.18402	132.00293	4.24346	0.1951785	0.24189079	2.5510746	20	—	—
163883 2003 ST_{177}	16.8	X	354.07388	66.76059	346.67823	0.34845	0.1083432	0.24277440	2.5448809	20	—	—
163884 2003 SC_{179}	16.5	X	26.70943	31.99250	340.44922	4.97110	0.0518054	0.24254463	2.5464878	20	12 28.1	19.8
163885 2003 SN_{180}	15.6	X	188.62685	145.09609	343.60121	14.48766	0.0619307	0.22704243	2.6611215	20	8 28.8	19.5
163886 2003 SJ_{185}	16.1	X	259.37913	347.13548	113.32814	4.47815	0.0219313	0.23629698	2.5911781	20	10 27.8	19.6
163887 2003 SL_{189}	15.4	X	213.54265	242.27236	217.16757	12.17783	0.1439177	0.22217210	2.6998711	20	8 5.7	19.8
163888 2003 SK_{191}	16.2	X	263.67133	55.33876	346.15420	3.64300	0.0978747	0.22308572	2.6924948	20	7 31.3	19.7
163889 2003 SS_{196}	15.7	X	227.32638	80.65774	325.83628	4.93881	0.1119150	0.21745452	2.7387796	20	6 20.2	19.7
163890 2003 SC_{199}	15.4	X	218.57999	90.11910	297.41298	4.39458	0.0716940	0.21402201	2.7679852	20	5 19.1	19.6
163891 2003 SJ_{199}	15.5	X	271.05197	135.27440	241.83477	7.88073	0.1052962	0.22109410	2.7086399	20	7 4.8	19.2
163892 2003 SQ_{199}	15.5	X	283.53075	12.67239	8.60467	14.22673	0.1275724	0.22282459	2.6945979	20	8 1.1	19.2
163893 2003 SX_{201}	16.8	X	43.27735	177.57722	172.89193	1.76849	0.2241235	0.23994978	2.5648136	20	—	—
163894 2003 SM_{203}	16.0	X	247.05352	240.05626	157.42853	2.12325	0.0451091	0.22336655	2.6902375	20	7 10.5	19.5
163895 2003 SN_{205}	16.1	X	48.53430	354.96410	29.51595	6.73407	0.1999923	0.24522579	2.5278926	20	—	—
163896 2003 SQ_{206}	15.7	X	264.09468	46.43080	32.43163	12.50385	0.1972385	0.22729989	2.6591116	20	9 10.9	19.3
163897 2003 SP_{211}	15.8	X	26.84433	52.38634	50.16718	6.04727	0.1151612	0.25731126	2.4481058	20	—	—
163898 2003 SN_{216}	16.4	X	343.73702	139.07751	203.16725	4.77865	0.2042406	0.22960198	2.6413075	20	9 17.9	18.8
163899 2003 SD_{220}	17.2	X	192.51105	326.93430	273.91569	8.51493	0.2106632	1.31126514	0.8266894	20	—	—
163900 2003 SD_{222}	16.1	X	5.57041	87.53448	204.58886	1.85476	0.0470813	0.22238800	2.6981234	20	8 6.5	19.5
163901 2003 SG_{222}	16.3	X	315.89411	178.02895	181.46207	0.73762	0.1428967	0.22577048	2.6711070	20	8 16.9	19.2
163902 2003 SW_{222}	17.1	X	264.31025	165.04601	283.73358	16.11229	0.2479210	0.46051665	1.6607560	20	12 6.1	16.6
163903 2003 SK_{223}	16.2	X	279.46564	349.80715	65.41083	2.24347	0.3050111	0.22469410	2.6796307	20	8 7.9	19.6
163904 2003 SX_{224}	15.9	X	258.40659	292.67219	168.85303	13.17528	0.1661514	0.23447532	2.6045815	20	10 5.5	19.2
163905 2003 SW_{225}	16.5	X	316.12742	17.22846	4.28352	2.19971	0.2493071	0.22912879	2.6449428	20	9 9.9	18.3
163906 2003 SA_{226}	16.1	X	324.25574	355.84296	35.58103	3.84648	0.1896730	0.23160198	2.6260795	20	10 20.9	18.2
163907 2003 SD_{230}	16.3	X	346.70907	22.78692	23.79459	3.83768	0.0940242	0.24268802	2.5454847	20	12 21.6	19.2
163908 2003 SU_{234}	15.6	X	228.11830	264.60742	148.69393	5.49324	0.0579384	0.21890926	2.7266326	20	7 5.5	19.5
163909 2003 SM_{237}	16.1	X	233.58797	233.66281	180.93098	6.60469	0.0225552	0.22310893	2.6923081	20	7 18.1	19.9
163910 2003 SF_{238}	16.8	X	85.77381	273.50548	6.19526	4.80759	0.2685063	0.24149412	2.5538674	20	11 29.9	21.1
163911 2003 SA_{239}	15.8	X	217.97145	201.41476	339.91571	6.34691	0.1440565	0.24252089	2.5466540	20	11 28.5	19.4
163912 2003 SN_{245}	15.6	X	359.07880	147.64429	183.08546	13.18428	0.0315093	0.23112355	2.6297023	20	9 19.5	18.8
163913 2003 SP_{246}	15.4	X	69.90516	291.90949	9.72903	15.45833	0.1257564	0.23870050	2.5737548	20	11 25.1	19.4
163914 2003 SU_{247}	15.2	X	36.58279	232.47959	11.90714	15.19334	0.1543236	0.22310280	2.6923573	20	8 10.1	18.7
163915 2003 SO_{248}	15.5	X	344.99366	96.58248	199.25679	13.56862	0.0568735	0.22164649	2.7041378	20	7 8.9	19.2
163916 2003 SE_{252}	16.1	X	26.75290	352.55045	13.42796	4.07908	0.3174335	0.23770134	2.5809621	20	—	—
163917 2003 SH_{252}	15.9	X	26.16639	105.01354	275.75157	1.84667	0.2713207	0.23860250	2.5744595	20	—	—
163918 2003 SQ_{252}	15.7	X	16.71440	354.01524	50.40550	9.19033	0.1771840	0.23881609	2.5729242	20	—	—
163919 2003 SX_{259}	15.6	X	16.99889	316.57198	30.35041	8.40727	0.1567927	0.23490885	2.6013760	20	11 22.9	18.7
163920 2003 SM_{272}	15.9	X	178.54494	159.48724	302.48538	3.90291	0.1531150	0.21823295	2.7322630	20	7 9.5	20.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
163921 2003 SK_{278}	16.1	X	15.24757	52.09204	277.15646	5.94791	0.2049765	0.23351773	2.6116971	20	11 3.1	19.1
163922 2003 SL_{282}	16.1	X	330.71526	229.86944	156.68412	3.37178	0.0498653	0.23379965	2.6095972	20	10 26.9	19.3
163923 2003 SW_{292}	14.9	X	306.23906	86.89680	315.60394	12.00930	0.0885758	0.23032858	2.6357497	20	9 30.0	18.2
163924 2003 SN_{293}	16.4	X	325.04879	101.21682	342.15262	7.54093	0.1344001	0.24119177	2.5560012	20	—	—
163925 2003 SC_{296}	15.4	X	24.44694	277.42578	322.28686	11.85478	0.1116576	0.22040185	2.7143086	20	7 1.6	18.6
163926 2003 SN_{299}	15.0	X	4.16973	31.19051	299.13798	13.93617	0.1139167	0.22923084	2.6441577	20	9 25.7	18.4
163927 2003 SO_{304}	16.4	X	87.99955	194.83548	118.47040	3.46551	0.0297558	0.24106472	2.5568993	20	12 25.4	19.9
163928 2003 SY_{304}	15.6	X	73.65234	346.67936	259.80672	3.70292	0.0336596	0.22720340	2.6598644	20	9 7.4	19.3
163929 2003 SF_{306}	15.5	X	245.03733	43.19069	333.03872	6.65691	0.1493825	0.21612538	2.7499969	20	5 25.9	19.7
163930 2003 SQ_{308}	15.3	X	208.86368	208.95716	287.78840	11.32946	0.1252145	0.22906164	2.6454596	20	9 17.9	19.6
163931 2003 SQ_{309}	16.0	X	41.18351	37.00252	242.67007	2.33422	0.0697957	0.23023322	2.6364774	20	9 14.7	19.4
163932 2003 SD_{310}	16.3	X	281.18317	255.78184	168.52459	5.87477	0.2217354	0.22932600	2.6434262	20	9 6.0	19.4
163933 2003 SG_{310}	15.7	X	97.03455	8.44976	26.26655	12.73063	0.2373833	0.25513806	2.4619877	20	2 2.4	18.9
163934 2003 SG_{311}	15.8	X	157.71637	142.98069	332.45689	1.46980	0.2439847	0.21527547	2.7572301	20	7 8.9	20.7
163935 2003 SG_{321}	16.6	X	84.25960	50.68252	225.99189	2.17579	0.1106306	0.23447413	2.6045904	20	11 11.7	20.3
163936 2003 TT_{11}	16.5	X	30.18398	292.80417	23.81773	3.57313	0.2244430	0.23453669	2.6041272	20	11 13.3	19.7
163937 2003 TD_{12}	15.7	X	35.52136	256.52161	42.03178	12.34800	0.1234782	0.23120406	2.6290918	20	10 15.1	19.0
163938 2003 TV_{17}	15.7	X	200.33657	151.49097	289.59589	3.94158	0.0844252	0.21855331	2.7295924	20	7 7.4	19.8
163939 2003 TA_{20}	15.4	X	299.74264	105.50330	300.96028	12.49720	0.1688884	0.23048148	2.6345838	20	9 14.9	18.5
163940 2003 TK_{20}	16.3	X	248.68660	100.98291	325.85885	8.09585	0.1615126	0.22449544	2.6812113	20	8 5.7	20.1
163941 2003 TU_{58}	15.6	X	10.11666	336.23954	329.39106	11.15465	0.0724445	0.22570742	2.6716045	20	9 3.0	18.8
163942 2003 UN	15.0	X	278.88478	150.01880	242.91681	14.92887	0.2054105	0.22397179	2.6853888	20	7 18.2	18.8
163943 2003 UF_{9}	15.4	X	37.55279	280.35687	136.29862	17.25334	0.1954360	0.24541464	2.5265956	20	—	—
163944 2003 UE_{12}	16.1	X	127.23379	222.91362	200.73097	1.35593	0.1766482	0.20207160	2.8760683	20	4 5.6	20.5
163945 2003 UJ_{12}	15.9	X	314.60468	283.27737	43.58814	5.63996	0.1490627	0.22041124	2.7142315	20	6 26.0	19.0
163946 2003 UC_{14}	15.3	X	229.17198	223.57776	143.54449	7.06375	0.0606468	0.21462313	2.7628143	20	5 9.5	19.4
163947 2003 UW_{15}	16.1	X	341.71714	272.00665	139.70474	2.12735	0.1363126	0.23591768	2.5939547	20	12 22.9	18.8
163948 2003 UH_{19}	15.5	X	22.51876	204.30667	169.27306	3.08277	0.0848254	0.23680020	2.5875059	20	12 26.8	18.9
163949 2003 UN_{21}	15.5	X	203.11299	113.54617	337.22819	13.35983	0.0922223	0.21878134	2.7276954	20	7 26.0	19.7
163950 2003 UN_{22}	15.3	X	133.37961	153.27683	35.33010	15.27376	0.0515150	0.22538462	2.6741547	20	9 17.3	19.3
163951 2003 UP_{22}	15.7	X	298.54404	261.83898	106.90942	6.77208	0.0472071	0.22306729	2.6926430	20	8 13.6	19.1
163952 2003 UN_{28}	15.8	X	241.42396	309.58713	50.24697	5.06689	0.0872613	0.21200439	2.7855192	20	5 9.3	19.9
163953 2003 UC_{36}	15.2	X	268.59951	132.25778	345.68056	14.87026	0.0851201	0.23482162	2.6020202	20	11 15.9	18.8
163954 2003 UA_{37}	15.5	X	80.81031	308.07743	5.56993	13.97690	0.1254638	0.23916896	2.5703928	20	12 26.5	19.7
163955 2003 US_{40}	15.4	X	341.53391	59.28410	228.96098	11.62224	0.1535279	0.21831439	2.7315834	20	6 19.3	18.4
163956 2003 UV_{45}	15.8	X	281.43771	90.82158	200.33602	3.97189	0.0835961	0.20937423	2.8087984	20	3 30.5	19.8
163957 2003 UY_{48}	15.8	X	0.19934	302.13649	83.72453	4.20081	0.1262342	0.23610804	2.5925603	20	12 16.9	18.9
163958 2003 UY_{55}	15.6	X	11.22360	348.99630	311.57319	10.84788	0.0699310	0.22508634	2.6765167	20	8 27.0	19.0
163959 2003 UF_{63}	15.8	X	265.35497	239.19202	126.18376	5.86909	0.1273794	0.21945941	2.7220739	20	6 9.7	19.7
163960 2003 UX_{63}	15.6	X	260.48907	229.23528	137.60962	10.23752	0.1635012	0.21837419	2.7310848	20	6 2.1	19.7
163961 2003 UD_{68}	16.2	X	316.40836	259.55195	90.20598	2.32074	0.1358734	0.22526109	2.6751323	20	8 4.9	19.1
163962 2003 US_{77}	15.6	X	318.16667	56.14180	306.53760	5.01034	0.0867475	0.22658844	2.6646748	20	8 29.4	18.6
163963 2003 UO_{80}	15.8	X	63.31452	86.33952	178.24864	4.82572	0.0653224	0.22937207	2.6430722	20	9 25.3	19.3
163964 2003 UR_{81}	16.4	X	297.30077	281.03828	117.75023	6.70906	0.2713245	0.22690203	2.6622191	20	8 21.4	19.0
163965 2003 UT_{82}	16.0	X	5.53769	198.49060	143.24037	11.44780	0.1810097	0.23099417	2.6306841	20	11 6.0	19.1
163966 2003 UJ_{86}	16.0	X	298.24050	105.06911	353.78088	3.74367	0.1564551	0.23357149	2.6112963	20	12 6.2	18.7
163967 2003 UV_{88}	15.6	X	353.66005	179.30548	169.75958	11.96306	0.0860646	0.22803838	2.6533676	20	10 12.9	18.7
163968 2003 UV_{99}	15.7	X	297.11982	219.66166	131.88953	5.80050	0.0434187	0.21926754	2.7236617	20	7 17.1	19.2
163969 2003 UA_{100}	16.3	X	322.48956	296.41045	100.16459	4.89337	0.2114952	0.23101185	2.6305499	20	10 26.5	18.5
163970 2003 UW_{101}	16.3	X	43.14841	180.76516	164.89157	5.07763	0.1176444	0.23897080	2.5718136	20	12 22.9	19.8
163971 2003 UQ_{102}	16.3	X	313.53249	223.94629	128.88580	2.03821	0.1163028	0.22505919	2.6767320	20	8 5.8	19.3
163972 2003 UF_{106}	16.4	X	259.65353	232.86006	176.08536	5.17291	0.0305390	0.22420477	2.6835281	20	8 13.5	20.0
163973 2003 UL_{107}	16.5	X	27.65009	287.40955	12.24072	3.26480	0.1823643	0.23235810	2.6203794	20	10 11.0	19.4
163974 2003 UC_{109}	16.1	X	285.42029	47.62116	308.90365	6.20245	0.0713491	0.21906058	2.7253768	20	7 3.7	19.6
163975 2003 UB_{110}	16.3	X	282.82594	83.73676	197.32259	1.09457	0.0539400	0.20591378	2.8401794	20	3 24.1	20.1
163976 2003 UN_{111}	15.9	X	306.41061	63.82013	57.37630	6.36529	0.0404707	0.24310341	2.5425842	20	—	—
163977 2003 UY_{111}	16.3	X	325.62874	255.62641	80.64523	3.78924	0.1247076	0.22487349	2.6782053	20	8 3.8	19.1
163978 2003 UU_{115}	15.7	X	195.39547	118.16119	275.21082	2.69240	0.1040458	0.21014629	2.8019146	20	4 30.1	20.1
163979 2003 UF_{116}	15.9	X	314.63824	291.89132	77.69161	4.80746	0.2009686	0.22742392	2.6581447	20	8 26.1	18.4
163980 2003 UC_{118}	16.5	X	85.72941	311.92825	330.36372	3.00717	0.2270993	0.23967073	2.5668041	20	11 30.2	20.7
163981 2003 UY_{120}	15.7	X	135.98495	181.47820	32.94312	5.22856	0.1699757	0.23202222	2.6229076	20	10 19.9	19.8
163982 2003 UK_{127}	16.0	X	294.64464	258.92566	57.54153	2.74826	0.0800934	0.21516334	2.7581880	20	5 21.0	19.3
163983 2003 UK_{129}	15.2	X	292.78115	24.35162	333.08559	13.66799	0.1130872	0.22178202	2.7030360	20	7 12.3	18.7
163984 2003 UC_{132}	14.7	X	317.61830	231.09033	84.14034	14.69565	0.2027708	0.21824200	2.7321875	20	6 6.9	17.6
163985 2003 UM_{134}	15.3	X	247.97907	47.97012	333.20850	5.48558	0.0290692	0.21703112	2.7423405	20	6 22.2	19.0
163986 2003 UV_{134}	16.1	X	40.10520	56.33685	294.10364	2.27091	0.2342753	0.23871420	2.5736563	20	—	—
163987 2003 UK_{138}	15.9	X	331.10116	210.07510	116.42523	4.14776	0.0706677	0.22208725	2.7005587	20	8 1.5	19.0
163988 2003 UQ_{142}	15.2	X	271.10317	66.61445	293.96152	5.15372	0.0396089	0.21654941	2.7464058	20	6 23.7	18.8
163989 2003 UD_{147}	15.8	X	287.00653	208.09156	200.68354	11.77847	0.1530178	0.22556676	2.6727150	20	9 1.2	19.1
163990 2003 UN_{147}	15.3	X	282.45335	318.61779	57.49857	14.54620	0.1300646	0.22013049	2.7165388	20	7 18.9	19.0
163991 2003 UR_{147}	16.0	X	75.29105	337.48495	25.20549	5.58029	0.0909619	0.24334617	2.5408930	20	—	—
163992 2003 UZ_{147}	15.9	X	257.17145	255.79331	122.32039	6.79514	0.0710847	0.21704151	2.7422529	20	6 23.9	19.6
163993 2003 UR_{148}	15.6	X	195.50065	218.94819	231.70103	2.83634	0.0450169	0.21729361	2.7401315	20	7 15.9	19.5
163994 2003 UT_{149}	16.4	X	348.34466	220.34006	157.18960	4.24929	0.1777451	0.23477304	2.6023792	20	11 22.4	19.0
163995 2003 UO_{150}	15.5	X	31.81770	305.11319	37.61025	5.05646	0.1580390	0.23479932	2.6021849	20	12 9.4	18.8
163996 2003 UT_{150}	16.1	X	34.57069	144.87711	179.91376	3.61988	0.0736667	0.23297666	2.6157392	20	11 8.1	19.3
163997 2003 UK_{163}	15.8	X	231.52627	216.98936	140.03009	4.86731	0.1499628	0.21173280	2.7879006	20	4 21.4	20.2
163998 2003 UL_{164}	15.7	X	346.40460	197.32192	106.38700	3.60993	0.0816734	0.22120648	2.7077225	20	7 24.9	18.8
163999 2003 UR_{165}	16.4	X	71.13433	249.48895	230.74085	1.05107	0.0329669	0.20306401	2.8666901	20	3 20.1	20.3
164000 2003 UH_{167}	16.1	X	291.68038	141.28939	264.76427	5.39243	0.1950818	0.22802545	2.6534678	20	8 30.3	19.1