Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
176001 2000 QR_{230}	15.0	X	307.71936	38.56497	14.47022	10.82917	0.0881625	0.18904485	3.0067188	21	10 5.5	18.7
176002 2000 QU_{243}	16.2	X	78.44004	67.59648	233.82188	2.01503	0.1948424	0.19781253	2.9172044	21	12 1.1	20.7
176003 2000 RH_{13}	15.1	X	272.76158	49.54055	341.54210	17.86728	0.1737692	0.18113809	3.0935907	21	7 10.9	19.8
176004 2000 RZ_{15}	15.0	X	241.04523	64.91160	313.19383	12.13498	0.3092090	0.17608894	3.1524484	21	5 3.6	20.8
176005 2000 RW_{34}	15.0	X	304.41248	3.01098	349.36308	15.21826	0.1683492	0.18070579	3.0985226	21	7 2.2	19.3
176006 2000 RQ_{58}	17.2	X	70.22554	215.65059	200.13241	6.87045	0.1788535	0.29804182	2.2196504	21	—	—
176007 2000 RV_{64}	15.2	X	231.17245	81.97916	316.63827	12.43032	0.1489834	0.17744116	3.1364123	21	6 3.2	20.4
176008 2000 RS_{79}	14.4	X	278.80074	94.56925	255.29462	13.30547	0.1731886	0.18036694	3.1024022	21	5 22.1	18.9
176009 2000 RY_{86}	14.9	X	230.22488	226.86695	193.38169	10.64585	0.1544328	0.17831718	3.1261316	21	6 28.7	20.0
176010 2000 RV_{87}	17.0	X	195.91247	60.37034	306.47221	4.46153	0.1294661	0.31132302	2.1560652	21	3 10.1	20.0
176011 2000 RF_{90}	15.2	X	200.18606	209.54388	190.55754	10.45414	0.1854970	0.17292282	3.1908118	21	5 9.4	20.6
176012 2000 RM_{102}	14.7	X	282.34923	75.30759	258.36404	8.79204	0.2344067	0.17761761	3.1343347	21	4 26.3	19.4
176013 2000 RW_{102}	14.6	X	302.34372	15.57931	316.00145	13.81220	0.2693483	0.18031660	3.1029796	21	5 9.6	19.1
176014 Vedrana	15.4	X	204.98795	103.98292	2.93757	10.57740	0.2436409	0.18021980	3.1040906	21	8 1.1	20.9
176015 2000 SR	15.7	X	356.84426	301.99792	3.70400	4.88756	0.1144469	0.18276007	3.0752600	21	8 1.7	19.4
176016 2000 SP_{13}	16.9	X	178.35174	332.36905	46.51921	4.29503	0.1707102	0.31026020	2.1609862	21	3 14.5	20.1
176017 2000 SD_{19}	14.8	X	207.36443	215.87882	222.08659	9.70828	0.0727643	0.17840640	3.1250893	21	7 2.3	19.7
176018 2000 SY_{41}	17.0	X	151.00645	337.80059	63.88389	4.52389	0.1253969	0.30769584	2.1729762	21	3 11.9	19.8
176019 2000 SE_{49}	15.6	X	286.62355	67.50595	323.85673	5.29328	0.1361070	0.18334041	3.0687670	21	7 31.3	19.7
176020 2000 SQ_{50}	15.3	X	274.66634	64.35719	274.37640	4.22487	0.1303523	0.17696913	3.1419869	21	5 8.6	19.8
176021 2000 SW_{50}	15.3	X	206.21581	245.80623	195.03665	10.49635	0.1013093	0.17838623	3.1253249	21	7 3.3	20.3
176022 2000 SR_{71}	14.8	X	89.92628	241.27547	15.65454	12.49818	0.1046658	0.18812799	3.0164800	21	10 9.2	19.2
176023 2000 SL_{72}	16.6	X	153.06483	314.75233	62.45427	5.34449	0.1907023	0.30535185	2.1840824	21	2 17.4	19.6
176024 2000 SZ_{76}	15.3	X	243.02609	223.33487	182.58682	9.89603	0.1159878	0.17910253	3.1169864	21	6 28.2	20.1
176025 2000 SB_{79}	15.7	X	218.80929	327.61594	49.99769	4.20462	0.1957838	0.17230710	3.1984086	21	4 26.9	20.9
176026 2000 ST_{81}	15.5	X	215.60912	216.91093	159.96302	4.71562	0.1920809	0.17138450	3.2098768	21	4 24.6	20.9
176027 2000 SD_{89}	15.3	X	242.15015	15.77917	39.86025	11.45484	0.0708936	0.17863279	3.1224483	21	7 17.3	20.0
176028 2000 SL_{91}	15.2	X	256.42841	55.51225	301.21015	13.22961	0.3191848	0.17726584	3.1384799	21	4 17.8	20.8
176029 2000 SH_{95}	15.3	X	1.08555	77.76357	271.81659	8.53043	0.0617713	0.18809079	3.0168776	21	9 28.6	19.4
176030 2000 SB_{124}	16.1	X	341.59135	247.78933	63.62463	5.43249	0.2114651	0.27544794	2.3394281	21	7 5.4	17.5
176031 2000 SM_{133}	14.8	X	274.38022	125.31786	272.28702	11.37981	0.0576759	0.18232373	3.0801646	21	7 31.0	19.2
176032 2000 SO_{175}	14.6	X	250.28134	65.36394	341.25237	10.64586	0.0941342	0.17716591	3.1396599	21	7 12.6	19.3
176033 2000 SH_{177}	15.0	X	239.64277	40.78826	7.98305	12.59329	0.1711942	0.17551004	3.1593767	21	6 23.2	20.2
176034 2000 SY_{183}	15.2	X	231.34030	56.46791	347.90894	10.48293	0.1237609	0.17787000	3.1313690	21	6 12.9	20.2
176035 2000 SD_{186}	15.3	X	230.88393	242.43103	193.08798	10.27147	0.0854194	0.17959079	3.1113343	21	7 23.3	20.2
176036 2000 SP_{200}	15.1	X	4.07255	196.11598	145.71415	8.57138	0.1277001	0.18661791	3.0327306	21	10 4.7	18.7
176037 2000 SR_{200}	15.6	X	263.61198	19.57363	5.48007	4.95912	0.1610528	0.17966663	3.1104587	21	6 19.9	20.2
176038 2000 SG_{213}	15.2	X	240.42117	273.66099	144.18455	11.31755	0.1505023	0.17763546	3.1341247	21	7 6.9	20.1
176039 2000 SP_{217}	16.8	X	119.58790	276.03274	110.96190	5.69312	0.1545090	0.30127138	2.2037592	21	1 11.7	19.0
176040 2000 SY_{223}	15.3	X	73.74012	119.97530	198.88365	9.06138	0.0661094	0.19283731	2.9671671	21	12 1.7	19.7
176041 2000 SM_{254}	15.1	X	193.02362	246.43293	168.30029	15.53142	0.1839253	0.17198982	3.2023409	21	5 22.2	20.7
176042 2000 SA_{263}	15.4	X	23.43673	273.42468	58.27035	2.98914	0.0763556	0.18927321	3.0042999	21	10 15.0	19.2
176043 2000 SW_{294}	17.0	X	138.82040	12.82535	348.56204	9.43210	0.2329014	0.30074038	2.2063524	21	1 17.7	19.9
176044 2000 SA_{309}	17.2	X	86.32195	70.31231	322.60885	5.35470	0.1761732	0.29738927	2.2228962	21	—	—
176045 2000 SX_{309}	16.4	X	279.23861	187.30462	234.01397	23.75806	0.1820676	0.27836294	2.3230672	21	8 16.6	19.8
176046 2000 SC_{310}	14.3	X	227.23894	115.98510	313.33788	22.63046	0.0968566	0.17811565	3.1284892	21	7 16.5	19.1
176047 2000 SL_{362}	14.8	X	227.12390	223.47831	147.57178	11.22118	0.2369732	0.17642353	3.1484614	21	4 27.1	20.3
176048 2000 TH	14.9	X	248.92868	101.66126	349.66875	9.79584	0.0634506	0.18261113	3.0769319	21	9 8.2	19.2
176049 2000 TM_{10}	15.1	X	31.31234	292.63849	17.84116	10.11358	0.0801187	0.18626541	3.0365557	21	9 29.5	19.0
176050 2000 TU_{11}	15.9	X	42.52174	275.99512	27.42383	1.91947	0.0898632	0.18772886	3.0207539	21	10 6.4	19.8
176051 2000 TX_{17}	17.2	X	167.74466	176.72556	211.49860	5.80520	0.0930389	0.30755614	2.1736342	21	3 5.1	20.1
176052 2000 TT_{22}	15.2	X	221.26194	79.94053	357.91544	9.63814	0.1487890	0.17930524	3.1146367	21	7 15.1	20.2
176053 2000 TO_{35}	15.6	X	318.08715	137.25608	218.01921	4.29335	0.1691581	0.18194759	3.0844082	21	7 24.7	19.4
176054 2000 TE_{37}	15.1	X	289.16613	293.39440	28.58513	11.70008	0.2010768	0.22580023	2.6708723	21	4 21.6	18.8
176055 2000 TM_{46}	15.5	X	142.99179	99.82050	154.33647	2.53645	0.0495014	0.19505614	2.9446225	21	11 29.4	19.9
176056 2000 TC_{52}	15.4	X	324.26741	336.40265	18.23491	10.15197	0.0729343	0.18179912	3.0860872	21	8 19.5	19.5
176057 2000 TH_{64}	15.2	X	321.48088	331.03044	14.01141	9.77333	0.0783934	0.18309502	3.0715083	21	8 1.2	19.3
176058 2000 UW_{14}	15.4	X	298.23867	6.84877	12.36937	7.28825	0.1650813	0.17971398	3.1099123	21	7 29.3	19.5
176059 2000 US_{18}	15.1	X	317.20459	34.34330	328.04807	8.38388	0.0832698	0.17964780	3.1106761	21	8 14.0	18.9
176060 2000 UF_{32}	16.8	X	146.86452	357.56960	54.64455	5.91984	0.0804030	0.30725733	2.1750432	21	3 16.2	19.5
176061 2000 UC_{37}	16.6	X	104.25635	223.92983	204.67753	6.29694	0.1668184	0.30234953	2.1985171	21	2 16.4	18.8
176062 2000 UQ_{46}	17.1	X	91.35710	357.74691	35.06903	5.28369	0.1732311	0.29671543	2.2262604	21	—	—
176063 2000 UA_{62}	16.8	X	186.99955	106.54450	260.34964	2.64615	0.1593218	0.30795141	2.1717738	21	3 3.4	20.0
176064 2000 UM_{67}	15.4	X	253.06161	140.75329	246.18925	7.76500	0.1029182	0.17534022	3.1614162	21	6 17.6	20.0
176065 2000 VS_{43}	17.0	X	340.47853	156.14127	287.59248	3.78926	0.0844054	0.28842780	2.2687047	21	—	—
176066 2000 VF_{44}	14.7	X	178.41250	232.74274	238.59655	15.14632	0.0954607	0.17682521	3.1436916	21	7 10.6	19.8
176067 2000 WJ_{4}	15.1	X	192.69739	72.45019	359.48611	10.90897	0.0545230	0.17171669	3.2057357	21	6 9.1	20.1
176068 2000 WZ_{39}	16.8	X	116.80091	267.57086	123.11349	5.56038	0.1791025	0.29899847	2.2149133	21	1 17.4	18.9
176069 2000 WG_{68}	16.8	X	275.19188	62.71090	248.09061	5.12119	0.2367317	0.31200309	2.1529310	21	3 7.9	20.0
176070 2000 WR_{70}	15.0	X	257.20106	9.31296	4.22071	9.81612	0.1028825	0.17365319	3.1818585	21	6 3.9	19.9
176071 2000 WE_{71}	16.8	X	115.47744	96.74624	326.84208	5.36041	0.1251068	0.30327502	2.1940421	21	2 21.3	19.2
176072 2000 WN_{76}	17.0	X	59.76520	40.97108	34.92974	4.14696	0.0854215	0.29671423	2.2262664	21	—	—
176073 2000 WL_{108}	16.6	X	138.05339	71.58770	358.55063	4.54712	0.1413259	0.30600504	2.1809732	21	4 3.4	19.4
176074 2000 WY_{113}	16.5	X	101.86400	335.84910	50.08132	6.36672	0.1533649	0.29605501	2.2295700	21	—	—
176075 2000 WY_{114}	16.7	X	132.03975	112.26655	304.92351	3.85508	0.1139155	0.30294651	2.1956279	21	3 4.4	19.4
176076 2000 WG_{184}	16.7	X	32.42814	242.01743	123.22556	5.88510	0.1780219	0.28599666	2.2815435	21	—	—
176077 2000 WW_{191}	14.9	X	316.22932	224.05063	112.04475	11.38088	0.3062584	0.18023214	3.1039488	21	6 5.9	18.6
176078 2000 XM_{5}	16.7	X	144.91561	43.62522	332.49160	7.25511	0.1321911	0.30162137	2.2020541	21	1 29.3	19.3
176079 2000 XO_{21}	16.9	X	39.93087	66.46350	337.88467	7.75285	0.1244008	0.28976080	2.2617415	21	—	—
176080 2000 XK_{24}	16.4	X	125.45474	104.44227	357.88578	7.20438	0.0982003	0.30694134	2.1765357	21	4 25.0	19.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
176081 2000 XW_{27}	16.5	X	44.13289	95.48347	321.34660	6.80401	0.1371020	0.29023348	2.2592851	21	—	—
176082 2000 XX_{41}	15.5	X	304.87461	145.52354	301.31894	24.57277	0.1882773	0.27993309	2.3143723	21	11 25.4	18.0
176083 2000 XP_{45}	15.7	X	259.39391	126.20278	25.85191	22.89658	0.2625108	0.28011964	2.3133447	21	11 16.2	18.6
176084 2000 YT_{10}	16.9	X	50.07556	219.35421	222.62832	4.48100	0.1958035	0.29430064	2.2384217	21	—	—
176085 2000 YE_{14}	17.2	X	32.81961	298.12942	121.28534	3.61065	0.1383416	0.28816814	2.2700674	21	—	—
176086 2000 YS_{16}	16.3	X	113.37305	75.84371	304.80003	5.48163	0.2186871	0.29559165	2.2318994	21	1 5.8	18.5
176087 2000 YS_{47}	16.5	X	46.98546	131.94506	266.07379	6.47633	0.0961824	0.28651124	2.2788108	21	—	—
176088 2000 YQ_{57}	16.8	X	95.98145	101.74010	293.31705	5.94811	0.1764891	0.29467366	2.2365323	21	—	—
176089 2000 YB_{80}	16.4	X	61.58518	163.45797	274.19688	7.06815	0.1413271	0.29494300	2.2351705	21	—	—
176090 2000 YJ_{90}	16.8	X	23.56166	349.39867	116.13481	4.03600	0.0793665	0.29131587	2.2536854	21	—	—
176091 2000 YW_{98}	16.8	X	296.42424	39.96093	116.82230	5.96508	0.0969539	0.28502034	2.2867507	21	—	—
176092 2000 YK_{108}	16.7	X	23.53215	28.62468	82.10083	5.42942	0.1099605	0.29237007	2.2482647	21	—	—
176093 2000 YS_{112}	16.4	X	66.61738	129.54127	302.85570	7.47300	0.1388125	0.29350323	2.2424742	21	—	—
176094 2001 AR_{18}	16.0	X	66.89241	119.56109	247.62689	6.18212	0.2529085	0.28661258	2.2782736	21	—	—
176095 2001 AK_{34}	16.4	X	35.85166	56.04431	342.53120	6.10990	0.1484191	0.28525120	2.2855167	21	—	—
176096 2001 BD_{3}	15.4	X	100.04412	37.09062	333.48573	25.48798	0.2407924	0.28862576	2.2676672	21	—	—
176097 2001 BX_{9}	17.7	X	313.32254	308.94562	240.50657	1.97488	0.0729013	0.29126908	2.2539267	21	—	—
176098 2001 BT_{16}	16.7	X	323.08794	80.96780	28.58394	6.67670	0.1613349	0.28254536	2.3000853	21	—	—
176099 2001 BV_{17}	16.8	X	119.16403	32.12958	343.83540	3.14064	0.2035726	0.29453843	2.2372168	21	1 5.9	19.2
176100 2001 BX_{26}	16.3	X	77.87814	250.69955	133.30658	9.26370	0.1431951	0.28777150	2.2721528	21	—	—
176101 2001 BQ_{37}	16.8	X	22.95774	119.76354	303.39829	5.21039	0.1320436	0.28599759	2.2815385	21	—	—
176102 2001 BB_{61}	15.9	X	334.52329	260.16247	153.19460	22.24708	0.2868953	0.27953384	2.3165755	21	12 29.8	17.9
176103 Waynejohnson	17.3	X	348.84366	303.99137	124.45504	1.94944	0.1663358	0.28184440	2.3038973	21	—	—
176104 2001 BK_{65}	16.5	X	302.92575	293.72798	240.22341	4.79913	0.1337587	0.28587808	2.2821743	21	—	—
176105 2001 CG_{6}	16.7	X	281.19045	220.94762	345.43474	5.07632	0.1188831	0.28630471	2.2799066	21	—	—
176106 2001 CG_{14}	16.6	X	218.88717	53.56416	77.86308	3.72906	0.0931376	0.27031850	2.3689299	21	9 29.6	19.8
176107 2001 CV_{25}	16.6	X	56.25260	283.21642	116.93386	6.99764	0.1677192	0.28599420	2.2815565	21	—	—
176108 2001 CF_{41}	15.8	X	263.86545	123.14000	119.77431	22.39560	0.1483732	0.28654769	2.2786175	21	—	—
176109 2001 DA_{7}	16.2	X	2.78730	71.84228	322.61840	11.32272	0.1877528	0.27847990	2.3224167	21	—	—
176110 2001 DO_{7}	16.5	X	251.98532	158.18444	72.49942	4.59040	0.1615050	0.28267570	2.2993781	21	—	—
176111 2001 DY_{9}	16.4	X	290.83976	69.87714	48.79926	7.18176	0.0602290	0.27694529	2.3309881	21	12 27.3	19.0
176112 2001 DG_{16}	16.6	X	98.80486	81.88407	100.92671	5.74348	0.1317443	0.25802773	2.4435719	21	7 23.7	19.9
176113 2001 DY_{31}	17.0	X	188.25661	208.99442	6.01679	4.85359	0.1515649	0.27315585	2.3524968	21	12 4.8	20.5
176114 2001 DL_{57}	16.8	X	116.07758	327.75528	345.25914	5.96519	0.1597184	0.27777210	2.3263602	21	—	—
176115 2001 DT_{61}	16.7	X	228.37447	312.54125	323.16351	6.36256	0.1021785	0.28893797	2.2660334	21	—	—
176116 2001 DY_{61}	17.2	X	266.41834	193.11432	342.61247	2.78726	0.1098528	0.28097426	2.3086514	21	—	—
176117 2001 DA_{64}	16.9	X	151.78799	279.29742	323.58340	5.51251	0.1004136	0.27345494	2.3507812	21	12 6.0	20.4
176118 2001 DL_{76}	17.0	X	221.02809	28.45901	151.37701	4.52815	0.1360643	0.27441239	2.3453099	21	11 29.6	20.2
176119 2001 DZ_{77}	16.9	X	18.09744	74.27381	329.57667	6.69227	0.1062503	0.28096439	2.3087054	21	—	—
176120 2001 DQ_{78}	16.7	X	316.79946	74.34494	0.21335	6.45210	0.0973326	0.27388771	2.3483042	21	12 3.9	19.1
176121 2001 DM_{83}	16.8	X	186.50926	139.84607	150.19044	5.66673	0.1655011	0.28366550	2.2940262	21	—	—
176122 2001 DF_{87}	16.0	X	200.15081	32.08287	152.23334	26.63727	0.1849282	0.26975216	2.3722444	21	11 12.5	20.2
176123 2001 DG_{87}	16.6	X	274.29789	121.48657	135.65181	4.16833	0.3054633	0.28692005	2.2766457	21	1 1.1	20.6
176124 2001 DL_{90}	15.7	X	228.89503	300.79427	279.49675	8.65905	0.1590872	0.27840721	2.3228209	21	—	—
176125 2001 DN_{99}	16.3	X	231.28268	313.68630	240.22987	4.93167	0.1585555	0.27669254	2.3324074	21	12 27.1	19.1
176126 2001 EA_{5}	16.6	X	234.40993	192.07815	23.47722	3.47668	0.1583740	0.27877547	2.3207748	21	—	—
176127 2001 EM_{11}	16.0	X	170.69606	7.62420	144.79813	9.70553	0.1899567	0.26113888	2.4241251	21	8 30.2	19.9
176128 2001 EB_{24}	16.5	X	148.21581	186.08279	53.23486	4.16428	0.1973321	0.26693818	2.3888869	21	11 26.1	20.4
176129 2001 FW_{1}	16.2	X	276.22032	89.41016	127.32534	6.80194	0.0556355	0.28537255	2.2848687	21	—	—
176130 2001 FT_{3}	16.2	X	175.29929	162.71834	57.84946	3.18670	0.1674111	0.26934471	2.3746362	21	11 28.2	19.9
176131 2001 FZ_{10}	17.0	X	251.10453	276.55235	230.67614	1.40533	0.1403015	0.27343076	2.3509197	21	11 23.6	19.5
176132 2001 FF_{11}	16.7	X	194.42155	4.09706	181.77670	7.00550	0.0867528	0.26981242	2.3718912	21	11 12.0	20.0
176133 2001 FY_{14}	16.7	X	302.85715	279.90553	180.38089	8.99409	0.1707428	0.27524799	2.3405609	21	12 15.4	18.8
176134 2001 FA_{19}	16.4	X	244.78610	199.51002	353.38352	5.04700	0.1457444	0.27678485	2.3318888	21	—	—
176135 2001 FB_{34}	16.8	X	192.90402	212.33623	13.55787	2.43095	0.1668327	0.27429499	2.3459791	21	12 22.8	20.1
176136 2001 FN_{38}	16.1	X	262.78674	233.79582	349.79252	21.96584	0.2090181	0.28236936	2.3010409	21	—	—
176137 2001 FE_{40}	16.4	X	197.33360	49.06568	173.53470	2.40712	0.1213573	0.27416237	2.3467356	21	12 28.1	19.6
176138 2001 FW_{61}	16.9	X	244.65652	0.57168	149.84610	7.97129	0.1807480	0.27362421	2.3498115	21	11 15.2	19.9
176139 2001 FA_{62}	16.7	X	302.54674	357.98193	146.35648	6.47074	0.0600630	0.28027548	2.3124871	21	—	—
176140 2001 FJ_{63}	16.3	X	197.66903	135.85291	90.35455	3.73136	0.1217392	0.27465661	2.3439194	21	—	—
176141 2001 FN_{74}	16.2	X	222.16100	66.23110	145.88590	5.39357	0.1268517	0.27476777	2.3432872	21	—	—
176142 2001 FG_{77}	16.7	X	192.23984	150.37490	82.87430	4.16792	0.1945831	0.27240073	2.3568424	21	12 28.4	20.2
176143 2001 FO_{83}	17.2	X	305.67667	104.63295	348.72302	1.98230	0.1700836	0.27579592	2.3374598	21	12 10.0	19.1
176144 2001 FS_{88}	16.9	X	274.74780	342.20959	160.38625	2.50003	0.1375408	0.27535444	2.3399576	21	12 26.1	19.1
176145 2001 FM_{90}	16.8	X	236.80006	168.16893	27.65022	2.46653	0.1523152	0.27559837	2.3385767	21	—	—
176146 2001 FZ_{124}	16.7	X	128.99788	78.22260	180.74569	7.80009	0.0936246	0.26857910	2.3791468	21	12 3.5	20.2
176147 2001 FG_{142}	16.9	X	270.55168	289.62288	205.87502	1.98794	0.1671039	0.27456339	2.3444499	21	12 3.9	19.0
176148 2001 FK_{153}	16.8	X	134.46726	90.78184	130.53605	5.64803	0.1891909	0.26412803	2.4058011	21	10 25.9	20.7
176149 2001 FP_{157}	16.4	X	143.87743	195.49452	74.75109	6.78432	0.2787766	0.26923270	2.3752948	21	12 28.8	20.7
176150 2001 FY_{160}	16.5	X	266.35041	146.64395	14.05276	7.64654	0.1142333	0.27543861	2.3394809	21	—	—
176151 2001 FE_{171}	16.5	X	281.99237	129.66687	53.54081	10.92427	0.1825947	0.28132816	2.3067148	21	—	—
176152 2001 FN_{171}	17.0	X	145.39706	107.65789	167.33771	0.38939	0.1925437	0.27152696	2.3618959	21	—	—
176153 2001 FO_{195}	16.9	X	319.74794	31.78407	32.09197	4.99062	0.0747982	0.27053867	2.3676444	21	11 23.3	19.3
176154 2001 GA	16.7	X	277.69180	228.12549	11.69679	4.75748	0.1042581	0.28558127	2.2837553	21	—	—
176155 2001 GU_{1}	17.7	X	207.80399	337.80182	186.56547	1.87719	0.1409710	0.26839985	2.3802059	21	10 23.2	20.9
176156 2001 GZ_{10}	16.9	X	187.90175	168.27704	69.94745	7.40859	0.2069640	0.27260763	2.3556497	21	12 29.3	20.6
176157 2001 HX_{11}	16.6	X	249.86351	299.43094	252.57198	1.63269	0.1679480	0.27635529	2.3343046	21	—	—
176158 2001 HG_{21}	13.8	X	212.16293	341.72759	218.82777	6.18435	0.0975394	0.12439204	3.9744252	21	11 25.4	19.7
176159 2001 HP_{31}	16.1	X	138.51348	76.55166	148.32413	8.01463	0.0987340	0.26226995	2.4171505	21	11 1.3	19.8
176160 2001 HW_{42}	16.8	X	226.96402	111.72155	45.74577	5.04902	0.1733547	0.26969074	2.3726046	21	10 31.9	20.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
176161 2001 HW_{43}	17.1	X	221.87710	145.17636	33.43886	3.09824	0.1655210	0.27112910	2.3642059	21	11 23.0	20.1
176162 2001 HM_{54}	16.2	X	76.38928	164.98915	82.73052	6.68377	0.1890557	0.25715016	2.4491282	21	10 3.7	19.7
176163 2001 JV	16.8	X	65.79261	55.17025	218.49093	1.85753	0.1635043	0.25750721	2.4468637	21	10 18.0	20.0
176164 2001 JR_{3}	16.1	X	211.56200	325.15589	203.99968	9.20953	0.1760185	0.26733552	2.3865192	21	10 29.9	19.6
176165 2001 JK_{7}	16.2	X	235.02065	88.93029	69.70451	12.89295	0.1351964	0.26954243	2.3734748	21	11 18.7	19.3
176166 2001 JV_{8}	16.4	X	164.24828	275.16669	349.25760	4.60916	0.1743491	0.27156322	2.3616856	21	—	—
176167 2001 KC_{6}	15.9	X	182.44434	180.95289	74.14010	5.38254	0.1748044	0.22284908	2.6944005	21	—	—
176168 2001 KX_{6}	15.8	X	322.46544	95.28589	219.34812	2.04667	0.2943763	0.24539540	2.5267277	21	5 12.9	18.4
176169 2001 KP_{21}	16.6	X	191.48736	164.44834	63.93752	3.44101	0.1585139	0.27051903	2.3677590	21	12 24.6	19.9
176170 2001 KA_{34}	16.6	X	158.89711	97.48144	104.36070	3.01308	0.1652914	0.26306961	2.4122497	21	10 21.9	20.5
176171 2001 KD_{43}	16.1	X	44.47673	94.27827	190.90509	7.19328	0.1853956	0.25495219	2.4631842	21	10 8.8	19.0
176172 2001 KK_{52}	16.4	X	169.20551	211.97712	19.59006	3.12586	0.1550316	0.26856138	2.3792514	21	12 6.4	20.0
176173 2001 KR_{67}	15.9	X	221.32144	139.22686	129.33231	25.08674	0.2111378	0.27701431	2.3306009	21	—	—
176174 2001 KV_{67}	15.3	X	297.48311	161.78925	144.60653	14.52641	0.2839400	0.23779714	2.5802689	21	4 3.3	19.2
176175 2001 KG_{71}	16.6	X	125.33100	108.55695	163.16238	2.97510	0.1248851	0.26643904	2.3918695	21	12 15.2	20.2
176176 2001 KQ_{71}	16.4	X	95.27176	193.18951	111.52146	3.54226	0.1824038	0.26573503	2.3960921	21	12 29.7	20.2
176177 2001 MY_{4}	16.0	X	244.22817	269.44834	51.37608	4.36942	0.1155972	0.23313131	2.6145823	21	3 13.7	20.0
176178 2001 MN_{21}	16.2	X	336.07005	275.74447	6.62998	2.78886	0.2169041	0.24215986	2.5491845	21	5 4.1	18.7
176179 2001 MA_{22}	16.7	X	190.37710	259.69953	6.89502	2.41127	0.2039750	0.26994138	2.3711357	21	—	—
176180 2001 NK_{2}	16.2	X	210.39358	163.42602	150.36668	5.98910	0.1133636	0.22778779	2.6553132	21	1 29.0	20.3
176181 2001 NF_{5}	15.7	X	54.90237	51.52106	310.34365	19.98877	0.2729674	0.21011818	2.8021645	21	—	—
176182 2001 NQ_{5}	15.8	X	359.58822	313.99387	36.99538	2.42942	0.0484510	0.20365645	2.8611279	21	10 4.9	19.3
176183 2001 OZ_{1}	15.6	X	252.20030	303.33433	339.71141	13.77792	0.0584618	0.22919290	2.6444495	21	2 8.9	19.4
176184 2001 OX_{6}	15.6	X	348.30150	17.67300	281.54284	5.58522	0.2191794	0.24320665	2.5418646	21	7 1.0	17.5
176185 2001 OF_{23}	15.0	X	145.75852	126.77149	263.52317	17.18706	0.2221465	0.17161001	3.2070641	21	3 6.2	20.6
176186 2001 OD_{30}	16.3	X	232.59855	318.37342	16.99921	4.32193	0.1356604	0.23357917	2.6112391	21	3 17.7	20.2
176187 2001 OX_{31}	15.6	X	27.02243	283.52966	313.74818	33.50646	0.2142608	0.23894315	2.5720120	21	7 9.5	18.5
176188 2001 OQ_{36}	16.9	X	133.63993	100.75370	309.64688	17.92205	0.1072748	0.37811611	1.8940260	21	2 7.9	18.4
176189 2001 OS_{41}	15.6	X	278.88210	301.38294	9.25139	11.00340	0.1939215	0.23586272	2.5943577	21	3 27.2	19.2
176190 2001 OV_{49}	15.7	X	283.95080	333.82861	307.67702	13.60912	0.1341161	0.23307657	2.6149916	21	2 26.4	19.6
176191 2001 OY_{53}	15.5	X	182.09014	253.42907	69.90232	12.09713	0.1888106	0.22192499	2.7018749	21	1 20.4	20.0
176192 2001 OD_{58}	15.6	X	195.24127	325.20293	11.96003	9.95928	0.1762307	0.22347002	2.6894070	21	2 18.0	20.1
176193 2001 OV_{63}	15.9	X	274.81531	232.60628	70.11991	5.03606	0.1563201	0.23428800	2.6059697	21	3 19.7	19.7
176194 2001 OS_{67}	16.1	X	214.69075	0.96558	325.53264	9.19233	0.1357029	0.22916728	2.6446466	21	2 17.4	20.2
176195 2001 OD_{96}	15.3	X	116.59635	31.50937	318.28033	9.30806	0.2944451	0.21401013	2.7680876	21	1 2.1	19.2
176196 2001 OB_{98}	16.9	X	192.39705	56.49127	326.90137	16.28301	0.0804388	0.38033164	1.8866634	21	3 12.9	19.2
176197 2001 OE_{99}	16.0	X	126.97318	221.77502	127.28570	10.79756	0.2680225	0.21754411	2.7380276	21	1 7.0	20.0
176198 2001 PK_{2}	15.3	X	87.89052	69.22387	310.21155	8.46847	0.1837468	0.21547948	2.7554896	21	—	—
176199 2001 PE_{3}	15.4	X	283.66756	342.23561	293.64188	13.99564	0.1120245	0.22973527	2.6402858	21	2 21.2	19.4
176200 2001 PT_{4}	15.6	X	174.32842	200.69930	139.12979	10.82697	0.1965190	0.22519667	2.6756424	21	1 31.2	20.0
176201 2001 PD_{8}	15.9	X	75.56514	196.70793	222.01286	12.30874	0.0953940	0.21908147	2.7252036	21	—	—
176202 2001 PV_{8}	15.6	X	261.25507	326.61369	349.43111	10.69234	0.0690827	0.23108158	2.6300207	21	3 26.7	19.5
176203 2001 PT_{18}	16.0	X	304.76389	115.18838	181.03928	4.65413	0.2513200	0.23930670	2.5694064	21	3 29.9	19.3
176204 2001 PZ_{57}	15.9	X	301.52847	332.10518	321.68855	11.82490	0.1385336	0.23511565	2.5998504	21	4 2.5	19.6
176205 2001 PG_{58}	16.1	X	346.42840	216.53887	144.98980	7.67766	0.2797333	0.19847098	2.9107487	21	10 5.9	18.3
176206 2001 PR_{59}	16.7	X	357.88772	344.89297	137.36531	24.34147	0.0697008	0.36441584	1.9412042	21	—	—
176207 2001 QK_{4}	15.9	X	190.18587	30.46666	319.96212	9.35866	0.0896540	0.22755529	2.6571216	21	2 21.1	19.9
176208 2001 QJ_{18}	15.6	X	109.28963	354.13098	3.70020	2.02438	0.2327560	0.21473120	2.7618873	21	—	—
176209 2001 QV_{20}	15.6	X	304.31390	307.98630	341.40663	13.06654	0.1465222	0.23407157	2.6075758	21	3 31.6	19.2
176210 2001 QS_{23}	16.0	X	347.79374	167.22868	115.36677	4.84970	0.2516624	0.24144345	2.5542247	21	5 29.2	17.8
176211 2001 QX_{24}	15.3	X	218.51681	172.04354	145.86715	15.21094	0.2308968	0.22614919	2.6681241	21	2 10.2	19.9
176212 2001 QS_{44}	15.7	X	41.46467	266.44073	131.57275	4.61563	0.1014096	0.21300178	2.7768168	21	—	—
176213 2001 QU_{46}	16.5	X	218.73662	358.78306	336.08679	1.81682	0.1407299	0.22954183	2.6417689	21	3 3.3	20.7
176214 2001 QX_{46}	15.9	X	166.32952	15.53580	329.11577	2.46891	0.1048181	0.22338745	2.6900697	21	1 23.5	19.9
176215 2001 QV_{48}	16.8	X	272.97302	336.03468	325.68277	17.95494	0.0841471	0.38169888	1.8821553	21	2 25.5	18.7
176216 2001 QR_{72}	15.4	X	0.58378	121.75826	265.35857	11.49519	0.1432721	0.20416530	2.8563719	21	11 29.8	18.8
176217 2001 QF_{83}	15.0	X	333.24263	42.32428	337.67808	11.34045	0.2684223	0.19555722	2.9395904	21	9 20.0	17.6
176218 2001 QT_{87}	16.4	X	153.59055	200.31936	52.29886	3.11918	0.1407686	0.26155362	2.4215618	21	12 17.4	20.1
176219 2001 QL_{90}	15.4	X	244.97415	262.68880	142.07930	12.14059	0.2675331	0.18402121	3.0611936	21	6 15.8	20.6
176220 2001 QX_{91}	15.8	X	332.35743	307.76491	338.41641	11.53095	0.1607157	0.24008910	2.5638213	21	5 7.1	18.8
176221 2001 QC_{97}	16.2	X	344.49844	99.78628	192.21004	4.34548	0.2704257	0.24139732	2.5545501	21	6 2.2	18.1
176222 2001 QK_{107}	17.0	X	149.35547	319.11636	261.04526	17.19975	0.0662593	0.35220019	1.9858342	21	11 16.4	19.5
176223 2001 QG_{120}	15.2	X	63.47035	267.70258	138.19528	9.76710	0.1624347	0.21342483	2.7731461	21	—	—
176224 2001 QJ_{123}	15.7	X	47.36070	18.86586	357.05811	8.87834	0.2119548	0.20904466	2.8117498	21	—	—
176225 2001 QL_{125}	16.1	X	311.20807	204.86331	125.94115	4.59043	0.1766614	0.24095805	2.5576538	21	6 8.1	18.9
176226 2001 QO_{125}	15.2	X	85.84281	224.45450	140.03719	12.61327	0.1033246	0.21290870	2.7776261	21	—	—
176227 2001 QA_{133}	15.6	X	336.66540	333.07615	301.54070	13.40010	0.1067996	0.23763100	2.5814714	21	5 5.7	19.0
176228 2001 QF_{140}	14.8	X	207.71336	64.09888	352.87334	22.26860	0.2912557	0.18056700	3.1001102	21	5 24.3	20.8
176229 2001 QL_{150}	16.1	X	33.19031	213.32652	145.28598	6.16402	0.1162345	0.20482633	2.8502231	21	12 9.7	19.9
176230 2001 QE_{151}	15.3	X	157.50903	69.26069	314.98688	28.87633	0.3627573	0.17259065	3.1949044	21	3 9.8	21.5
176231 2001 QS_{156}	15.6	X	278.45313	348.37331	309.35594	7.92376	0.1037436	0.23267367	2.6180095	21	3 17.6	19.3
176232 2001 QB_{158}	15.9	X	10.80966	121.67235	159.48414	15.53347	0.1111737	0.24343148	2.5402993	21	7 21.6	18.9
176233 2001 QV_{162}	15.7	X	35.68906	269.08947	160.45544	14.44964	0.1257494	0.21487778	2.7606311	21	—	—
176234 2001 QJ_{165}	15.7	X	53.70048	302.27768	85.10836	8.41625	0.1869243	0.21135154	2.7912524	21	—	—
176235 2001 QB_{166}	15.7	X	295.34046	299.98629	349.04240	14.80385	0.1291994	0.23497646	2.6008770	21	3 23.8	19.3
176236 2001 QN_{209}	15.8	X	61.25592	103.19736	290.70834	6.09000	0.1798797	0.21310714	2.7759014	21	—	—
176237 2001 QC_{213}	16.0	X	98.72520	161.02848	175.50707	1.36022	0.2366059	0.21145633	2.7903301	21	—	—
176238 2001 QA_{214}	16.0	X	89.11726	140.50315	202.11275	0.99779	0.0815761	0.21079413	2.7961709	21	—	—
176239 2001 QN_{216}	15.4	X	50.66572	9.78441	21.35670	6.13970	0.0673321	0.21090457	2.7951946	21	—	—
176240 2001 QL_{218}	15.8	X	268.22768	326.26882	341.01864	13.15411	0.1161752	0.23207570	2.6225047	21	3 17.5	19.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
176241 2001 QQ_{225}	15.8	X	293.30136	126.38914	292.74035	9.26996	0.2468942	0.19467347	2.9484801	21	8 25.7	19.5
176242 2001 QM_{234}	15.9	X	90.02508	234.60070	164.42998	8.15538	0.2271096	0.21543450	2.7558730	21	1 16.2	19.2
176243 2001 QL_{235}	15.5	X	27.81011	262.12288	159.88870	15.25367	0.2544933	0.20988908	2.8042033	21	—	—
176244 2001 QO_{236}	15.3	X	8.59384	96.91348	350.60685	24.16579	0.1936207	0.20968105	2.8060577	21	—	—
176245 2001 QJ_{239}	15.5	X	196.87617	294.82498	342.17386	13.79475	0.0512065	0.21792960	2.7347979	21	—	—
176246 2001 QV_{241}	15.5	X	95.78882	193.96599	162.92621	8.41589	0.0995076	0.21205313	2.7850923	21	—	—
176247 2001 QU_{254}	16.3	X	185.34657	326.04962	39.13942	4.84133	0.1073784	0.22726126	2.6594129	21	3 10.3	20.3
176248 2001 QR_{257}	15.1	X	277.64806	247.53393	156.36618	14.64016	0.2760956	0.19025072	2.9940003	21	7 13.6	19.7
176249 2001 QV_{257}	15.4	X	14.95010	220.18929	161.34647	13.08370	0.2341037	0.20205295	2.8762453	21	12 28.6	19.0
176250 2001 QK_{276}	15.6	X	113.50017	288.35217	93.39523	8.25648	0.0886798	0.21931376	2.7232789	21	1 6.4	19.0
176251 2001 QK_{278}	15.9	X	238.57604	3.09447	303.59350	5.29043	0.1339850	0.22845815	2.6501164	21	2 15.3	19.9
176252 2001 QM_{289}	16.5	X	307.27086	0.65940	272.57464	1.35453	0.1866284	0.23600261	2.5933324	21	3 12.0	19.9
176253 2001 QM_{291}	15.6	X	135.59650	213.02672	152.39360	3.99934	0.2084770	0.21727406	2.7402959	21	1 28.1	19.6
176254 2001 QE_{294}	15.6	X	39.32929	252.65138	148.97087	12.65182	0.1435544	0.21187543	2.7866493	21	—	—
176255 2001 QV_{294}	15.6	X	192.65981	134.42878	199.60437	3.22178	0.2197867	0.22371007	2.6874828	21	2 8.8	20.2
176256 2001 RV_{5}	16.4	X	121.45941	31.13935	322.82448	3.62179	0.1033113	0.21566498	2.7539093	21	—	—
176257 2001 RE_{6}	16.8	X	86.24621	219.09590	207.81448	21.15487	0.0858723	0.37022728	1.9208367	21	—	—
176258 2001 RD_{16}	16.0	X	121.43971	208.26509	162.69782	7.26896	0.0446883	0.21884309	2.7271822	21	—	—
176259 2001 RB_{24}	16.1	X	144.31262	217.50202	144.77461	3.32389	0.0885484	0.22093263	2.7099596	21	1 18.9	19.8
176260 2001 RQ_{24}	16.3	X	177.40633	334.00712	337.65823	4.40319	0.1004632	0.21960728	2.7208519	21	—	—
176261 2001 RH_{25}	15.9	X	43.38625	285.83806	179.59376	9.18928	0.0805224	0.22038183	2.7144730	21	1 10.2	19.3
176262 2001 RO_{31}	16.2	X	107.46037	174.26772	157.04662	5.54836	0.0535783	0.21197933	2.7857387	21	—	—
176263 2001 RF_{40}	15.8	X	84.15709	113.11268	281.75228	12.37957	0.0306911	0.21600473	2.7510208	21	—	—
176264 2001 RH_{42}	16.6	X	277.03040	321.54368	333.23879	2.88892	0.1088754	0.23099725	2.6306607	21	3 14.9	20.4
176265 2001 RE_{47}	17.4	X	12.68030	196.61670	352.05236	17.57281	0.1109522	0.37881829	1.8916847	21	2 10.8	18.9
176266 2001 RO_{51}	15.3	X	233.01534	103.28966	314.44886	14.63957	0.1820248	0.18832434	3.0143829	21	6 28.5	20.2
176267 2001 RN_{84}	15.6	X	185.23977	173.15845	180.83161	12.92592	0.0371261	0.22520894	2.6755452	21	2 16.8	19.5
176268 2001 RG_{94}	16.0	X	284.10308	182.48728	206.72472	2.67775	0.2165600	0.19055942	2.9907660	21	7 11.6	20.1
176269 2001 RW_{105}	16.2	X	189.80594	228.46169	127.45430	5.71352	0.1500128	0.22618370	2.6678527	21	3 4.4	20.5
176270 2001 RM_{106}	16.0	X	93.44453	193.97898	168.31509	2.97794	0.0138250	0.21434049	2.7652426	21	—	—
176271 2001 RH_{111}	15.7	X	112.82458	300.38524	16.63196	3.94934	0.0940203	0.21112191	2.7932760	21	—	—
176272 2001 RZ_{115}	16.2	X	111.34065	22.43247	12.51895	5.44915	0.0785910	0.21964615	2.7205308	21	1 20.1	19.8
176273 2001 RK_{121}	15.7	X	290.00583	215.33222	8.35978	9.49475	0.0633590	0.22203571	2.7009767	21	1 9.7	19.6
176274 2001 RM_{129}	16.5	X	174.78343	201.22352	112.53271	2.33818	0.0557170	0.21799349	2.7342635	21	—	—
176275 2001 RB_{130}	16.2	X	325.91791	256.33160	29.83077	3.35652	0.1038496	0.23613877	2.5923354	21	5 9.6	19.1
176276 2001 RC_{135}	16.2	X	109.25899	239.05804	83.92220	4.50774	0.1666900	0.21074575	2.7965988	21	—	—
176277 2001 RK_{143}	14.2	X	194.20806	52.99448	331.52376	25.98990	0.2812714	0.17511320	3.1641481	21	3 31.9	20.3
176278 2001 RH_{147}	15.4	X	135.84037	78.62128	267.00637	12.64532	0.1031279	0.21570374	2.7535794	21	—	—
176279 2001 RH_{153}	15.3	X	79.69094	200.45039	132.20333	8.88534	0.0656555	0.20674377	2.8325729	21	12 27.0	19.4
176280 2001 RB_{155}	16.1	X	155.85659	216.91293	148.24988	7.30433	0.0455624	0.22118710	2.7078806	21	1 30.4	19.9
176281 2001 RS_{155}	16.3	X	219.40123	343.72973	346.82123	5.14011	0.1970872	0.23002404	2.6380755	21	2 26.3	20.6
176282 2001 SZ_{16}	16.2	X	163.84352	261.80757	147.44592	2.89235	0.0918098	0.22764579	2.6564173	21	4 9.9	20.0
176283 2001 SJ_{17}	16.0	X	119.23342	149.48926	163.75286	3.11852	0.0854625	0.20998780	2.8033243	21	—	—
176284 2001 SE_{23}	16.2	X	282.03528	237.26607	173.47104	1.96649	0.1948097	0.19231597	2.9725270	21	8 9.6	20.2
176285 2001 SM_{25}	16.2	X	33.96852	339.14150	14.47096	1.91587	0.0833530	0.20275876	2.8695665	21	11 28.2	20.0
176286 2001 SZ_{27}	16.5	X	229.29575	257.69070	30.93480	3.95927	0.1926034	0.22301118	2.6930947	21	1 17.7	21.0
176287 2001 SQ_{38}	15.6	X	53.19724	337.02489	23.49667	10.94114	0.1420583	0.20510382	2.8476517	21	—	—
176288 2001 SL_{39}	15.6	X	149.59101	149.54269	168.02576	8.33355	0.1712214	0.21407880	2.7674956	21	—	—
176289 2001 SV_{40}	15.6	X	50.51558	178.73034	137.54402	2.98700	0.1292866	0.19986697	2.8971793	21	11 10.7	19.6
176290 2001 SL_{57}	15.0	X	158.04259	258.09198	184.24009	19.13272	0.2469401	0.17644610	3.1481930	21	5 27.1	20.7
176291 2001 SU_{60}	15.4	X	246.32700	65.69884	188.26025	9.23405	0.0377878	0.21687694	2.7436401	21	—	—
176292 2001 SC_{67}	15.5	X	148.75784	159.05742	175.07517	8.09359	0.2224042	0.21484410	2.7609196	21	1 5.2	20.0
176293 2001 SE_{79}	15.9	X	126.67962	216.29200	166.98063	9.72698	0.2645762	0.22089002	2.7103080	21	2 14.9	20.1
176294 2001 SB_{97}	15.7	X	12.04515	277.87863	205.45861	7.79103	0.0755169	0.21712899	2.7415164	21	—	—
176295 2001 SW_{97}	16.6	X	239.70704	46.44102	268.11085	1.43730	0.0996943	0.22742575	2.6581305	21	2 28.3	20.5
176296 2001 SC_{124}	15.7	X	155.82389	51.10754	244.97426	4.59916	0.0632042	0.21393088	2.7687711	21	—	—
176297 2001 SH_{124}	16.3	X	212.19376	79.88445	209.75893	3.07611	0.1913020	0.22249209	2.6972818	21	1 4.0	20.9
176298 2001 SR_{125}	16.2	X	156.48281	53.77302	319.85058	5.27893	0.0259552	0.22334973	2.6903726	21	2 8.7	19.8
176299 2001 SE_{128}	15.4	X	317.13191	314.32746	186.59144	6.09790	0.0473131	0.21229715	2.7829577	21	—	—
176300 2001 SX_{135}	15.8	X	326.92022	348.73225	187.64658	9.45915	0.0188586	0.21831531	2.7315758	21	—	—
176301 2001 SR_{137}	15.6	X	219.82706	167.40356	224.88607	0.65837	0.1949077	0.18278015	3.0750347	21	5 14.3	20.8
176302 2001 SO_{139}	15.9	X	297.80803	152.11543	357.88123	5.79841	0.0066875	0.21022925	2.8011775	21	—	—
176303 2001 SF_{148}	15.9	X	243.10596	292.00515	346.64171	13.77910	0.1000789	0.22254168	2.6968811	21	1 24.4	20.2
176304 2001 SN_{148}	15.6	X	129.09305	347.38067	315.78947	4.38400	0.1038854	0.21006697	2.8026199	21	—	—
176305 2001 SV_{152}	15.4	X	35.78981	87.57900	346.15177	4.68726	0.0475971	0.21176437	2.7876235	21	—	—
176306 2001 SZ_{154}	15.8	X	357.03888	62.39856	336.75488	1.55878	0.1328350	0.20138586	2.8825935	21	12 8.1	19.1
176307 2001 SK_{164}	15.0	X	192.40292	225.28244	208.91875	15.54134	0.2674703	0.17986241	3.1082011	21	6 9.8	20.7
176308 2001 SB_{165}	15.2	X	38.62734	351.09138	5.87419	4.59427	0.1476719	0.20219264	2.8749204	21	12 17.8	19.1
176309 2001 SN_{180}	16.1	X	200.54549	331.65574	344.09903	4.06170	0.1016815	0.22454363	2.6808276	21	1 23.5	20.2
176310 2001 SO_{188}	15.8	X	74.59667	314.71249	64.92698	4.36704	0.0990958	0.21319793	2.7751133	21	—	—
176311 2001 SR_{188}	15.9	X	175.38982	187.02622	152.06249	5.56843	0.0222741	0.22237079	2.6982626	21	1 18.6	19.6
176312 2001 SS_{191}	16.2	X	55.30297	279.53360	148.33444	1.16439	0.0761039	0.21597243	2.7512951	21	—	—
176313 2001 SK_{192}	16.3	X	311.07709	256.26004	172.85578	2.09557	0.0495356	0.20216928	2.8751418	21	11 5.8	19.9
176314 2001 SW_{193}	16.2	X	202.14029	161.11327	159.92295	2.23905	0.0474253	0.22284687	2.6944184	21	1 29.0	20.0
176315 2001 SE_{195}	16.6	X	4.04452	251.52157	10.85007	4.68744	0.1364550	0.23893586	2.5720643	21	6 10.5	19.2
176316 2001 SB_{196}	15.5	X	353.86253	270.37290	177.37534	7.31881	0.0420866	0.21043376	2.7993623	21	—	—
176317 2001 SF_{197}	16.6	X	22.34498	348.80696	354.70092	1.62602	0.1314974	0.20104213	2.8858782	21	11 5.0	20.0
176318 2001 SB_{201}	15.4	X	5.84435	127.10411	357.91003	15.06602	0.1209201	0.21582738	2.7525277	21	—	—
176319 2001 SW_{206}	15.9	X	62.71301	21.72453	176.24991	7.67216	0.1389962	0.23593304	2.5938421	21	6 24.7	19.2
176320 2001 SN_{209}	15.5	X	277.27299	175.96348	12.04179	9.17027	0.0907610	0.21375198	2.7703158	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
176321 2001 SS_{210}	16.0	X	10.89408	106.38456	13.11226	4.69961	0.0663427	0.21590982	2.7518269	21	—	—
176322 2001 SB_{212}	16.1	X	120.80820	170.83246	167.58894	6.41953	0.0560417	0.21290757	2.7776359	21	—	—
176323 2001 SH_{220}	16.1	X	124.37349	180.91714	163.30982	6.22690	0.0362846	0.21376559	2.7701982	21	—	—
176324 2001 SA_{221}	16.4	X	160.41272	258.53843	39.28468	0.60503	0.0849342	0.21323197	2.7748180	21	—	—
176325 2001 SU_{223}	16.0	X	338.11652	332.89171	175.37866	5.76647	0.0254888	0.21512886	2.7584827	21	—	—
176326 2001 SR_{242}	15.8	X	126.70385	277.37356	62.56027	5.30145	0.0788710	0.21324496	2.7747053	21	—	—
176327 2001 SP_{251}	15.4	X	253.91494	252.95711	200.57321	9.47701	0.0921179	0.19228177	2.9728795	21	9 11.3	19.8
176328 2001 SH_{255}	16.1	X	302.04385	4.30268	55.90753	3.35796	0.0838724	0.19574226	2.9377374	21	10 8.7	19.8
176329 2001 SR_{256}	15.3	X	277.80374	208.38663	192.54920	8.68553	0.1230909	0.18910195	3.0061135	21	7 31.0	19.6
176330 2001 SB_{271}	15.9	X	275.21817	189.15284	227.75403	3.95365	0.1723015	0.19116138	2.9844842	21	8 10.8	20.1
176331 2001 SV_{272}	14.9	X	53.89356	267.47369	91.03164	17.73789	0.1294449	0.20536129	2.8452711	21	—	—
176332 2001 SY_{274}	16.4	X	24.57117	141.04410	222.54160	1.26849	0.0840554	0.20180328	2.8786171	21	11 28.4	20.1
176333 2001 SN_{294}	16.2	X	61.86576	184.35793	192.05645	4.21481	0.0857603	0.21154085	2.7895868	21	—	—
176334 2001 SK_{298}	16.6	X	225.41057	52.45029	230.82478	1.43910	0.0664303	0.22142832	2.7059137	21	1 8.9	20.5
176335 2001 SV_{303}	16.0	X	208.65572	171.14957	234.86088	3.04835	0.1304294	0.18281780	3.0746125	21	5 23.6	20.9
176336 2001 SC_{307}	16.2	X	79.13262	311.05075	76.06514	0.55542	0.0805761	0.21369994	2.7707656	21	—	—
176337 2001 SG_{313}	15.4	X	355.44211	76.37540	159.33529	14.81821	0.0758976	0.23101479	2.6305275	21	4 24.8	18.7
176338 2001 SE_{317}	15.7	X	173.99625	238.14177	88.35760	6.09772	0.1612012	0.21982583	2.7190481	21	1 14.4	20.0
176339 2001 SJ_{320}	16.6	X	21.61575	206.85397	166.78868	2.27037	0.0797120	0.20306573	2.8666739	21	12 6.9	20.3
176340 2001 SF_{341}	15.7	X	212.33208	180.21302	149.24592	14.70617	0.1012878	0.22607415	2.6687145	21	2 19.7	19.7
176341 2001 SA_{345}	15.2	X	348.27300	254.09598	127.09426	20.35444	0.1901803	0.19866907	2.9088135	21	11 10.7	18.7
176342 2001 TM_{2}	15.6	X	337.18349	219.93708	5.28292	14.60833	0.0494982	0.22688466	2.6623549	21	3 15.0	19.0
176343 2001 TL_{14}	15.8	X	12.29874	92.65696	314.13345	4.76229	0.0745574	0.20430316	2.8550869	21	—	—
176344 2001 TE_{16}	15.0	X	192.06428	287.41893	135.34508	11.19219	0.0876371	0.18173509	3.0868121	21	5 31.1	19.9
176345 2001 TS_{16}	14.6	X	295.50404	284.16329	93.93615	25.83265	0.2550339	0.18918816	3.0052002	21	7 6.2	18.5
176346 2001 TC_{17}	15.9	X	350.48166	53.02230	9.71984	6.34182	0.0592451	0.20243191	2.8726545	21	12 22.8	19.6
176347 2001 TQ_{31}	15.2	X	45.16288	358.62883	335.14680	6.63776	0.1132384	0.19791486	2.9161987	21	11 19.9	19.3
176348 2001 TU_{36}	16.1	X	258.46722	317.62532	252.22340	18.76394	0.0641445	0.35722394	1.9671720	21	—	—
176349 2001 TM_{48}	15.9	X	326.14746	286.08673	89.61324	2.50130	0.0979357	0.19174792	2.9783949	21	9 15.4	19.4
176350 2001 TR_{53}	15.5	X	20.18220	276.96174	75.41814	6.25072	0.1566099	0.19954044	2.9003390	21	11 17.8	19.0
176351 2001 TA_{64}	15.4	X	266.92348	194.91637	222.64168	6.96242	0.1717899	0.18874628	3.0098888	21	7 31.4	19.9
176352 2001 TH_{84}	15.8	X	50.53735	47.11984	5.74027	6.32576	0.0299800	0.21154869	2.7895179	21	—	—
176353 2001 TK_{84}	15.7	X	294.63550	236.45299	37.62537	11.72063	0.1504263	0.22760240	2.6567549	21	3 10.6	19.5
176354 2001 TF_{85}	16.4	X	215.23679	274.88499	166.44178	0.94156	0.3057245	0.18330226	3.0691928	21	7 3.1	21.9
176355 2001 TW_{86}	15.6	X	48.70353	230.36833	4.45771	12.39605	0.1471909	0.23822518	2.5771772	21	8 1.1	18.8
176356 2001 TH_{89}	15.6	X	222.82806	111.48076	249.83794	4.12807	0.1434858	0.17949155	3.1124810	21	4 11.2	20.6
176357 2001 TY_{98}	15.6	X	281.92235	14.46585	208.91950	9.84480	0.0716633	0.21833210	2.7314357	21	—	—
176358 2001 TC_{99}	15.5	X	240.39011	257.36069	3.91014	10.60148	0.1434526	0.21924406	2.7238561	21	—	—
176359 2001 TK_{100}	15.4	X	224.75601	219.16579	256.10317	8.31560	0.0096851	0.19207127	2.9750512	21	9 11.6	19.8
176360 2001 TD_{102}	15.3	X	221.93002	80.63291	292.45261	13.19728	0.3288905	0.18084666	3.0969133	21	4 12.3	21.2
176361 2001 TM_{104}	15.1	X	345.60744	139.99328	229.15676	9.56482	0.0992531	0.19358265	2.9595460	21	10 4.5	18.7
176362 2001 TT_{104}	15.8	X	288.29070	239.48361	12.21005	8.61924	0.0903580	0.22301635	2.6930531	21	2 9.3	19.7
176363 2001 TD_{117}	15.2	X	201.91570	27.24484	50.58271	8.94885	0.3198428	0.17824621	3.1269614	21	6 19.2	21.0
176364 2001 TG_{122}	15.1	X	292.33860	81.47961	332.47479	10.21591	0.0785934	0.19231350	2.9725525	21	9 13.2	18.9
176365 2001 TV_{130}	15.8	X	259.37127	150.41281	149.15488	12.39152	0.1932901	0.22948394	2.6422131	21	2 23.4	20.1
176366 2001 TD_{139}	15.6	X	3.30549	322.58990	79.36845	6.68684	0.1729257	0.20451588	2.8531068	21	12 27.9	18.8
176367 2001 TQ_{154}	15.9	X	249.29970	320.46637	84.08958	7.45695	0.3347351	0.18631710	3.0359940	21	6 12.3	21.2
176368 2001 TQ_{157}	16.1	X	319.79458	226.00642	136.06786	2.52814	0.0939157	0.18919154	3.0051645	21	8 16.7	19.7
176369 2001 TO_{160}	16.6	X	157.84930	334.74113	285.83179	0.94345	0.0261800	0.20305617	2.8667639	21	12 24.8	20.6
176370 2001 TX_{177}	15.5	X	266.13669	2.06085	226.32769	8.71734	0.0889257	0.21613092	2.7499499	21	—	—
176371 2001 TK_{185}	15.8	X	203.33188	95.07547	285.31592	4.37685	0.1583056	0.17796807	3.1302185	21	4 15.4	21.1
176372 2001 TN_{195}	15.6	X	256.41101	279.99421	151.57209	13.14816	0.1569882	0.18899435	3.0072544	21	8 9.5	20.0
176373 2001 TT_{195}	14.9	X	234.66679	255.63093	157.97924	13.75079	0.1560437	0.18413624	3.0599186	21	6 25.8	19.9
176374 2001 TN_{204}	16.1	X	208.04807	240.60764	78.93952	5.99432	0.0740094	0.22213066	2.7002069	21	2 5.4	20.1
176375 2001 TB_{221}	15.8	X	316.45792	277.82827	329.25487	4.90206	0.1456467	0.22636976	2.6663907	21	2 26.1	19.1
176376 2001 TT_{229}	15.0	X	218.64851	246.04655	134.87618	16.68325	0.3071742	0.18115771	3.0933674	21	5 1.7	20.9
176377 2001 TE_{235}	15.9	X	206.36761	277.38979	161.03707	10.37434	0.2736381	0.18231753	3.0802343	21	6 24.8	21.5
176378 2001 TH_{237}	15.6	X	339.08812	302.66742	105.85084	6.19177	0.2317183	0.19959665	2.8997944	21	11 24.3	18.2
176379 2001 TP_{240}	15.5	X	266.39784	24.16764	15.07492	9.30354	0.1239381	0.18658687	3.0330669	21	7 18.8	19.9
176380 Goran	16.4	X	89.74636	253.45041	45.52074	2.64481	0.0720195	0.20353779	2.8622397	21	11 27.3	20.5
176381 2001 TX_{256}	15.5	X	235.20440	76.94535	21.81099	8.96210	0.0706281	0.18786218	3.0193247	21	9 3.7	19.9
176382 2001 TP_{258}	16.2	X	270.37466	345.58201	76.30768	2.94496	0.1881198	0.19115023	2.9846002	21	8 11.5	20.4
176383 2001 UK_{18}	15.9	X	159.33967	187.39915	155.48197	2.49019	0.1071577	0.21606705	2.7504918	21	1 14.8	20.0
176384 2001 UX_{22}	15.5	X	87.35073	49.21144	309.49412	7.95739	0.1647145	0.20916681	2.8106549	21	—	—
176385 2001 UT_{23}	15.4	X	250.61265	308.04065	340.58375	11.87255	0.1595679	0.22412249	2.6841848	21	2 7.5	19.7
176386 2001 UM_{32}	15.8	X	44.32516	256.27176	152.89317	9.67330	0.1484449	0.20854115	2.8162738	21	—	—
176387 2001 UE_{41}	16.2	X	229.76085	283.08925	163.20384	4.92426	0.1820061	0.18645008	3.0345502	21	7 28.1	21.0
176388 2001 UR_{57}	16.2	X	357.76149	190.87822	199.30488	1.68778	0.0683156	0.20055315	2.8905671	21	11 22.4	19.7
176389 2001 UO_{60}	16.0	X	144.04345	38.02045	268.46081	3.30299	0.0565711	0.21104753	2.7939322	21	—	—
176390 2001 UO_{63}	16.1	X	180.12389	281.37046	47.67552	2.41895	0.2288775	0.21821698	2.7323963	21	1 27.1	20.6
176391 2001 UY_{81}	15.9	X	294.34157	193.12604	218.37291	9.74942	0.1095249	0.19152889	2.9806651	21	9 7.1	19.9
176392 2001 UL_{84}	15.3	X	254.26673	52.76565	13.63827	10.13473	0.1312648	0.18761182	3.0220101	21	8 8.7	19.8
176393 2001 UU_{84}	16.0	X	331.12134	333.22212	43.39731	2.11050	0.0904334	0.19301202	2.9653763	21	9 24.6	19.5
176394 2001 UA_{86}	15.9	X	257.66128	29.36696	73.78053	3.15176	0.0061488	0.19526688	2.9425035	21	10 14.4	19.9
176395 2001 UL_{125}	15.2	X	211.37865	283.60762	174.00009	18.70844	0.2548141	0.18389262	3.0626204	21	7 20.1	20.8
176396 2001 UG_{126}	15.1	X	214.59326	278.03321	157.04568	13.64202	0.1117652	0.18361951	3.0656565	21	7 4.9	20.1
176397 2001 UK_{132}	15.0	X	12.73278	204.58341	69.60057	19.20928	0.0118508	0.18179238	3.0861635	21	7 10.7	19.5
176398 2001 UT_{144}	15.6	X	256.82477	43.82321	46.24599	11.08289	0.0788812	0.19100026	2.9861623	21	9 20.0	19.9
176399 2001 UU_{145}	15.7	X	55.88483	271.96962	83.97691	4.33826	0.0683110	0.20193853	2.8773316	21	12 26.8	19.7
176400 2001 UC_{146}	16.0	X	225.56316	218.44476	210.77039	4.05656	0.1945672	0.18340070	3.0680945	21	7 2.6	21.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
176401 2001 UT_{147}	16.4	X	262.10241	320.61005	130.39746	1.15867	0.1741229	0.19125950	2.9834633	21	9 8.9	20.6
176402 2001 UY_{147}	16.0	X	350.75184	56.90617	146.83368	3.05552	0.0099199	0.22226506	2.6991183	21	3 8.6	19.4
176403 2001 UZ_{149}	16.2	X	244.18253	233.96571	177.71017	2.92488	0.2280030	0.18417255	3.0595164	21	6 25.7	21.1
176404 2001 UW_{172}	15.3	X	78.46995	180.59722	47.52491	8.33224	0.1671415	0.23825267	2.5769789	21	9 6.3	19.0
176405 2001 UW_{174}	15.2	X	182.42988	15.68283	58.34196	18.55312	0.2087764	0.17803993	3.1293761	21	5 31.9	20.6
176406 2001 UW_{175}	16.4	X	358.75683	190.45251	157.74918	3.01202	0.1296422	0.19378949	2.9574397	21	10 3.3	19.6
176407 2001 UK_{178}	15.3	X	146.45772	294.19751	69.25569	13.08157	0.1517675	0.21950583	2.7216901	21	2 3.1	19.6
176408 2001 UP_{197}	15.3	X	55.68578	350.70446	341.42067	9.71913	0.0836066	0.20109934	2.8853308	21	11 27.0	19.5
176409 2001 UM_{212}	16.3	X	95.96023	313.08694	21.41010	4.98237	0.1463712	0.20632991	2.8363593	21	—	—
176410 2001 UO_{212}	16.4	X	268.44646	336.07615	60.32267	3.99793	0.1097494	0.18699378	3.0286653	21	7 17.9	20.6
176411 2001 UU_{220}	16.3	X	184.94181	90.79797	14.31026	1.58375	0.2491042	0.18121859	3.0926745	21	7 11.5	21.7
176412 2001 VW_{1}	14.8	X	159.94112	235.94562	263.82567	16.32596	0.1385103	0.17791060	3.1308925	21	7 26.5	20.0
176413 2001 VW_{4}	14.8	X	121.82737	3.86585	348.82454	35.19611	0.1549669	0.21331315	2.7741139	21	—	—
176414 2001 VO_{7}	16.1	X	236.80683	77.73086	45.58051	9.39282	0.0192712	0.19380847	2.9572466	21	10 12.9	20.3
176415 2001 VR_{7}	15.4	X	239.38984	197.99561	225.89175	8.51906	0.1321369	0.18527019	3.0474202	21	7 13.7	20.2
176416 2001 VL_{9}	15.2	X	163.27502	234.48881	247.04780	10.41196	0.2145812	0.17781765	3.1319836	21	7 12.1	20.7
176417 2001 VQ_{9}	15.5	X	225.45764	62.61172	67.09264	9.97601	0.0504944	0.19092226	2.9869756	21	10 5.1	19.9
176418 2001 VF_{15}	15.4	X	282.73940	77.32197	336.39935	4.32134	0.2120030	0.18833547	3.0142641	21	8 12.7	19.5
176419 2001 VM_{16}	15.2	X	55.63731	72.68671	5.32550	6.25585	0.0413306	0.21170231	2.7881683	21	—	—
176420 2001 VX_{18}	15.6	X	277.39738	347.96309	40.29881	4.12098	0.1271333	0.18681462	3.0306013	21	7 16.5	19.7
176421 2001 VB_{25}	15.2	X	215.39866	70.32289	52.68647	10.56868	0.0415355	0.18834601	3.0141517	21	9 16.2	19.7
176422 2001 VU_{26}	15.1	X	139.79979	285.95013	54.21501	7.96060	0.1566382	0.21105439	2.7938717	21	—	—
176423 2001 VF_{28}	15.3	X	237.51396	2.95362	59.41633	8.31520	0.1574979	0.18322995	3.0700003	21	7 9.8	20.1
176424 2001 VR_{37}	15.2	X	261.78554	307.87181	94.78628	4.54836	0.3244231	0.18515051	3.0487333	21	6 21.1	20.2
176425 2001 VQ_{67}	17.7	X	288.93636	60.45752	38.13724	8.19789	0.1993469	0.34576683	2.0103908	21	11 30.0	18.6
176426 2001 VT_{70}	15.8	X	286.98878	317.54790	79.77377	0.37677	0.1972616	0.18742602	3.0240070	21	7 29.7	19.8
176427 2001 VS_{73}	15.5	X	250.98717	342.47916	321.87667	13.57866	0.2390260	0.22658145	2.6647296	21	2 17.9	20.0
176428 2001 VP_{77}	15.4	X	287.94330	323.39544	84.88156	6.78356	0.2032848	0.19038783	2.9925627	21	8 16.0	19.3
176429 2001 VA_{89}	15.6	X	320.62362	161.93227	264.29530	11.61828	0.0370193	0.19873910	2.9081302	21	11 13.2	19.5
176430 2001 VD_{92}	15.5	X	214.14852	319.97099	121.73312	10.73748	0.1027205	0.18278997	3.0749246	21	7 13.6	20.3
176431 2001 VT_{106}	16.0	X	285.56334	234.84258	337.78146	3.52303	0.0584245	0.21224821	2.7833855	21	—	—
176432 2001 VZ_{109}	15.7	X	184.90209	52.16187	54.46917	11.79385	0.1250119	0.18101356	3.0950095	21	7 15.7	20.8
176433 2001 VR_{110}	15.5	X	304.32793	81.88245	259.75222	7.24278	0.0516199	0.18270024	3.0759313	21	7 1.9	19.7
176434 2001 VD_{120}	15.4	X	327.16068	5.83078	21.64708	4.99557	0.0938185	0.19193209	2.9764892	21	10 2.3	19.1
176435 2001 WC_{18}	15.2	X	258.04524	183.37068	230.01583	9.68455	0.1711126	0.18714451	3.0270388	21	7 15.9	19.8
176436 2001 WV_{24}	15.1	X	147.48678	281.11716	240.14227	15.27085	0.1793954	0.18042680	3.1017159	21	8 10.2	20.5
176437 2001 WG_{25}	15.3	X	260.39047	227.75745	221.62335	8.95754	0.1030789	0.19177511	2.9781133	21	9 11.3	19.7
176438 2001 WR_{25}	15.5	X	316.96362	178.94632	226.13526	11.09769	0.0473131	0.19449656	2.9502678	21	10 10.4	19.5
176439 2001 WX_{31}	15.5	X	291.42392	328.86166	67.58645	13.43271	0.0381973	0.18827796	3.0148779	21	9 3.7	19.9
176440 2001 WD_{38}	15.3	X	130.84337	236.14536	105.97843	8.81436	0.2328932	0.21103550	2.7940384	21	—	—
176441 2001 WA_{40}	15.3	X	229.66772	212.57234	214.49602	7.61531	0.2597464	0.18152857	3.0891528	21	6 28.8	20.6
176442 2001 WJ_{51}	15.7	X	78.39887	297.43071	33.78711	6.60525	0.0689512	0.20316927	2.8656999	21	12 23.2	19.8
176443 2001 WG_{55}	16.0	X	230.87847	238.09221	46.25865	3.90206	0.1233502	0.21735324	2.7396303	21	1 16.2	20.3
176444 2001 WQ_{77}	16.0	X	208.38081	272.46011	165.35871	1.86058	0.1284349	0.18183243	3.0857104	21	7 1.4	20.9
176445 2001 WG_{85}	15.8	X	66.18120	273.95076	87.69912	3.25171	0.0939523	0.20192525	2.8774578	21	—	—
176446 2001 XC_{2}	15.0	X	152.60230	110.56814	343.40995	25.00697	0.3589788	0.17471532	3.1689500	21	6 5.3	21.3
176447 2001 XE_{15}	15.1	X	293.33769	242.61054	122.12135	16.09516	0.2515270	0.18632361	3.0359232	21	6 18.6	19.4
176448 2001 XU_{19}	14.9	X	154.30652	241.97351	323.06916	9.40185	0.0570371	0.18769108	3.0211593	21	10 7.7	19.5
176449 2001 XD_{21}	14.4	X	257.45840	279.65053	82.03670	18.65895	0.2390607	0.17783528	3.1317766	21	5 12.5	19.6
176450 2001 XM_{38}	15.2	X	207.76671	74.98404	334.07718	9.10009	0.2237263	0.17769832	3.1333856	21	5 21.1	20.7
176451 2001 XT_{40}	14.9	X	297.99354	4.33186	15.90985	9.41089	0.1499993	0.18504070	3.0499394	21	8 2.9	19.0
176452 2001 XW_{40}	15.4	X	247.03898	84.83792	290.68762	21.29681	0.2560080	0.17963427	3.1108322	21	5 8.9	20.9
176453 2001 XG_{42}	15.2	X	230.95881	122.15200	307.85677	17.24290	0.1684042	0.18085831	3.0967804	21	7 13.1	20.2
176454 2001 XO_{43}	15.1	X	119.14242	171.98353	346.50337	9.12279	0.1292734	0.17562078	3.1580484	21	7 15.2	20.0
176455 2001 XL_{57}	16.0	X	244.59191	305.12532	121.70195	2.08553	0.2769593	0.18384203	3.0631823	21	7 10.1	21.0
176456 2001 XS_{69}	16.3	X	259.63131	286.70892	140.21092	2.64653	0.0954804	0.18778554	3.0201461	21	8 16.8	20.4
176457 2001 XM_{72}	15.8	X	203.82473	245.39760	195.13259	8.85980	0.2735718	0.17977482	3.1092106	21	6 24.9	21.5
176458 2001 XE_{74}	15.3	X	193.56198	41.85313	81.74554	10.43100	0.0655905	0.18414730	3.0597961	21	8 18.7	20.0
176459 2001 XT_{78}	14.9	X	300.48699	186.34296	193.50982	8.94363	0.1445369	0.18786102	3.0193371	21	7 31.9	18.9
176460 2001 XT_{79}	15.2	X	12.35580	245.78533	94.75800	17.56213	0.2029459	0.19177268	2.9781386	21	11 1.5	18.9
176461 2001 XX_{90}	15.4	X	234.71217	175.07139	265.16831	8.25911	0.0885603	0.18521634	3.0480109	21	8 2.3	20.1
176462 2001 XU_{94}	15.2	X	243.05641	141.27801	267.07700	9.97362	0.2381789	0.18319809	3.0703561	21	6 19.8	20.2
176463 2001 XV_{97}	15.1	X	239.56083	356.26198	77.70635	9.73042	0.1707630	0.18298058	3.0727888	21	7 25.8	19.9
176464 2001 XB_{108}	15.5	X	232.42656	122.12484	306.88123	4.48079	0.2922348	0.18299234	3.0726572	21	7 2.0	20.8
176465 2001 XD_{121}	15.4	X	352.98334	280.37123	77.16004	10.19768	0.0751778	0.19292778	2.9662394	21	10 8.5	19.3
176466 2001 XE_{122}	16.0	X	286.06937	311.40491	109.59020	1.97821	0.0969259	0.19031095	2.9933685	21	9 13.9	19.8
176467 2001 XD_{125}	16.4	X	350.29394	268.93094	147.25321	2.78089	0.0993435	0.19942881	2.9014212	21	12 16.5	19.9
176468 2001 XA_{147}	15.7	X	231.75429	226.03124	149.83177	1.30547	0.1879811	0.17727012	3.1384294	21	5 6.0	20.7
176469 2001 XP_{147}	15.4	X	252.92469	306.28741	88.80145	14.78702	0.0731969	0.18078276	3.0976431	21	7 1.4	19.9
176470 2001 XF_{148}	15.5	X	132.54364	113.05649	155.33178	3.42713	0.0248332	0.19616243	2.9335410	21	12 4.4	19.6
176471 2001 XA_{149}	15.2	X	315.06862	119.75793	245.55583	8.28207	0.1119781	0.18576382	3.0420193	21	8 7.7	19.1
176472 2001 XG_{149}	15.6	X	290.28854	316.71391	145.74726	2.55373	0.0409792	0.19451376	2.9500938	21	11 19.1	19.6
176473 2001 XL_{154}	15.7	X	84.65685	164.87849	89.98214	4.19592	0.0367532	0.18639883	3.0351065	21	9 23.6	19.9
176474 2001 XX_{154}	15.4	X	268.25945	302.08074	94.38770	11.50795	0.1514069	0.18323788	3.0699116	21	7 11.3	19.8
176475 2001 XO_{156}	15.0	X	27.80961	349.18440	261.49711	11.53656	0.0132985	0.17755302	3.1350948	21	6 29.5	19.3
176476 2001 XM_{164}	14.9	X	126.97103	112.13030	95.47802	12.97343	0.2443650	0.18313313	3.0710822	21	10 3.3	20.4
176477 2001 XY_{164}	15.1	X	261.56409	291.04030	86.54994	10.41891	0.1088854	0.17985062	3.1083369	21	6 15.0	19.4
176478 2001 XY_{173}	15.1	X	206.22867	336.21105	112.71947	10.96760	0.0910830	0.17862170	3.1225776	21	7 15.0	19.6
176479 2001 XF_{175}	15.3	X	208.15101	182.47170	274.46797	7.95634	0.0599155	0.17944788	3.1129860	21	7 27.6	19.9
176480 2001 XJ_{181}	15.2	X	258.08724	285.39105	103.73940	11.05489	0.0985193	0.17830606	3.1262616	21	6 26.9	19.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
176481 2001 XX_{200}	15.1	X	94.01415	336.52439	259.18447	10.70289	0.0707055	0.18596282	3.0398487	21	9 7.5	19.7
176482 2001 XF_{204}	16.1	X	273.16831	250.92769	160.27629	4.34508	0.1688370	0.18670672	3.0317688	21	8 2.1	20.4
176483 2001 XT_{207}	15.5	X	289.88681	288.74811	123.97395	6.84877	0.1544413	0.18821712	3.0155275	21	8 31.6	19.4
176484 2001 XA_{209}	15.3	X	216.33517	289.08260	150.54583	5.30800	0.1287265	0.18073257	3.0982165	21	7 11.2	20.2
176485 2001 XR_{211}	15.3	X	309.00662	277.33854	70.17565	9.59852	0.1208836	0.18273744	3.0755139	21	7 7.8	19.3
176486 2001 XR_{225}	15.2	X	158.53083	129.12065	64.62706	10.42134	0.0880253	0.18946181	3.0023058	21	10 8.2	19.9
176487 2001 XW_{229}	16.8	X	206.06369	167.42318	295.19524	0.33556	0.2013381	0.18161630	3.0881579	21	7 26.2	21.8
176488 2001 XF_{230}	15.8	X	4.96265	341.74549	69.70836	2.97979	0.0464910	0.19945089	2.9012071	21	12 26.7	19.6
176489 2001 XH_{231}	15.3	X	235.88534	123.88384	274.63264	8.46150	0.1033656	0.17997653	3.1068871	21	6 12.9	20.0
176490 2001 XC_{232}	15.7	X	137.55837	73.85375	57.76829	4.31436	0.1249940	0.17624962	3.1505323	21	6 28.8	20.5
176491 2001 XD_{234}	15.4	X	155.23976	104.43748	43.85415	5.81526	0.1078287	0.18021900	3.1040997	21	8 7.4	20.3
176492 2001 XO_{235}	15.8	X	204.52680	21.15549	72.33489	6.34507	0.1433643	0.18067224	3.0989062	21	7 17.1	20.7
176493 2001 XD_{237}	14.9	X	285.13368	100.77300	272.11287	9.78982	0.2291527	0.18490723	3.0514068	21	6 20.4	19.2
176494 2001 XX_{237}	16.5	X	304.08960	98.59864	63.08206	2.74266	0.0306335	0.30520002	2.1848066	21	—	—
176495 2001 XB_{251}	15.4	X	171.60598	182.16941	264.95491	4.74693	0.1737210	0.17519945	3.1631095	21	6 8.7	20.6
176496 2001 XC_{251}	15.5	X	237.03220	303.08537	92.20481	12.03165	0.0872171	0.17829951	3.1263381	21	6 12.2	20.2
176497 2001 XZ_{257}	16.1	X	321.55945	238.90339	260.19905	18.18345	0.0724767	0.35752262	1.9660763	21	—	—
176498 2001 XU_{265}	15.6	X	146.86221	197.71163	53.13494	2.75639	0.0110208	0.19837369	2.9117003	21	11 29.2	19.7
176499 2001 YC	15.5	X	253.66479	309.32095	103.00854	5.69403	0.2566577	0.18430442	3.0580568	21	7 2.5	20.4
176500 2001 YL_{2}	14.9	X	208.51294	65.75513	354.36081	20.89078	0.2347517	0.17706937	3.1408010	21	6 1.4	20.7
176501 2001 YU_{13}	15.9	X	191.16273	99.58051	145.15849	2.62643	0.0397187	0.20148738	2.8816251	21	—	—
176502 2001 YN_{14}	15.6	X	226.67988	16.75113	84.82574	1.63977	0.0026365	0.18635011	3.0356355	21	9 2.2	19.9
176503 2001 YZ_{17}	16.0	X	205.22382	249.13335	160.80673	2.19451	0.2910759	0.17678931	3.1441171	21	5 21.5	21.6
176504 2001 YV_{24}	16.3	X	240.28549	38.59031	33.40632	1.51539	0.1306485	0.18419929	3.0592203	21	7 27.4	20.8
176505 2001 YF_{29}	16.1	X	102.59180	272.05544	73.37438	3.09821	0.0800135	0.20523217	2.8464644	21	—	—
176506 2001 YO_{33}	15.6	X	246.17652	123.78098	287.20833	8.53460	0.0719176	0.18212628	3.0823904	21	7 13.7	20.1
176507 2001 YL_{34}	15.5	X	232.63553	342.67204	74.92429	12.87519	0.1314429	0.18152247	3.0892220	21	6 30.4	20.3
176508 2001 YQ_{46}	15.1	X	147.37579	220.78059	273.50232	15.64815	0.0515420	0.17791622	3.1308267	21	7 6.3	19.6
176509 2001 YB_{49}	15.3	X	273.34696	7.11631	54.54043	3.72839	0.1399260	0.18603860	3.0390231	21	8 22.6	19.5
176510 2001 YW_{50}	15.8	X	154.27708	74.52889	71.88073	6.27716	0.1071360	0.17884908	3.1199304	21	8 3.6	20.7
176511 2001 YK_{59}	15.7	X	218.44121	118.35814	339.83080	3.41526	0.1173727	0.18210174	3.0826673	21	8 7.3	20.4
176512 2001 YU_{59}	15.0	X	187.78423	166.88142	283.49916	13.04480	0.0617538	0.17746833	3.1360920	21	6 28.2	19.6
176513 2001 YN_{63}	15.7	X	149.80119	357.20542	86.88752	6.13947	0.1539662	0.17122681	3.2118471	21	5 16.9	20.8
176514 2001 YZ_{65}	15.2	X	205.84007	346.85228	89.47541	2.68576	0.1540479	0.17773803	3.1329188	21	6 26.1	20.1
176515 2001 YM_{66}	15.5	X	261.09380	88.42184	306.71575	4.10187	0.1714257	0.18128137	3.0919605	21	6 28.7	20.1
176516 2001 YC_{68}	15.0	X	83.25095	112.48643	94.30358	11.47575	0.0223955	0.17741337	3.1367397	21	7 17.9	19.3
176517 2001 YY_{75}	15.2	X	246.46782	145.46113	292.81590	9.71678	0.1118205	0.18306521	3.0718417	21	8 10.7	19.8
176518 2001 YD_{76}	15.4	X	171.79048	68.16473	353.12230	3.63041	0.1545111	0.17204173	3.2016966	21	5 7.4	20.5
176519 2001 YY_{77}	15.6	X	199.95602	308.11634	79.50059	6.03665	0.1717053	0.17138916	3.2098186	21	4 25.2	21.0
176520 2001 YF_{83}	15.5	X	182.56615	338.99466	102.22024	12.36044	0.1655367	0.17423707	3.1747462	21	6 11.9	20.8
176521 2001 YP_{93}	16.2	X	203.54985	297.55532	141.20669	1.54785	0.1635992	0.17658902	3.1464941	21	6 26.6	21.2
176522 2001 YQ_{93}	15.4	X	187.57664	126.52877	280.80342	4.16531	0.0082736	0.16871763	3.2436133	21	5 4.0	20.1
176523 2001 YO_{111}	15.0	X	154.51230	35.65168	82.57079	16.45032	0.1434657	0.17301989	3.1896182	21	6 29.6	20.1
176524 2001 YU_{118}	16.5	X	156.62402	303.53974	71.90579	2.71098	0.1196795	0.31330138	2.1469792	21	2 7.7	19.0
176525 2001 YV_{118}	15.0	X	293.10243	65.11094	303.45271	11.23061	0.0925874	0.17857539	3.1231174	21	7 16.9	19.1
176526 2001 YL_{121}	15.1	X	208.71628	27.38279	43.13094	12.45281	0.0772753	0.17996026	3.1070743	21	6 24.9	20.0
176527 2001 YE_{124}	15.6	X	236.29204	120.61549	287.28141	10.33484	0.1271486	0.18061123	3.0996041	21	6 23.1	20.4
176528 2001 YY_{137}	14.7	X	123.99129	104.13815	67.12232	18.26320	0.0670625	0.17602212	3.1532462	21	7 31.9	19.6
176529 2001 YD_{152}	15.5	X	289.96418	89.92923	303.02615	15.21626	0.1089065	0.18401639	3.0612471	21	8 8.4	19.6
176530 2001 YZ_{153}	15.3	X	236.89198	102.29889	332.93682	9.03600	0.0984857	0.18070962	3.0984788	21	8 1.4	19.9
176531 2001 YK_{156}	15.3	X	208.21849	60.82033	318.68066	17.68747	0.2772572	0.17474116	3.1686376	21	4 9.2	21.3
176532 2002 AF_{2}	15.5	X	181.44293	161.75668	291.32457	6.45993	0.1495746	0.17501339	3.1653510	21	6 24.5	20.7
176533 2002 AP_{6}	15.4	X	301.57264	267.49822	124.19121	12.06127	0.1192584	0.18805874	3.0172204	21	8 26.9	19.2
176534 2002 AK_{10}	14.6	X	147.08581	212.03178	277.42237	17.55968	0.1858282	0.17211004	3.2008494	21	7 8.0	19.8
176535 2002 AA_{14}	14.6	X	162.47940	25.47420	130.83594	20.83806	0.2066195	0.17567500	3.1573985	21	8 25.3	20.0
176536 2002 AA_{15}	14.8	X	234.87744	333.60997	41.19365	15.88747	0.2356992	0.17682056	3.1437467	21	5 3.7	20.1
176537 2002 AA_{17}	14.8	X	158.13812	36.38631	118.36583	18.50769	0.1504971	0.17776165	3.1326412	21	8 19.2	20.0
176538 2002 AM_{27}	15.6	X	129.62984	149.63615	12.59372	5.28376	0.1873760	0.17332565	3.1858659	21	8 3.9	20.8
176539 2002 AU_{30}	14.9	X	326.94328	54.90805	288.12100	10.36400	0.1217941	0.18015903	3.1047885	21	7 28.5	18.7
176540 2002 AD_{50}	16.0	X	179.66892	316.48732	145.86734	4.08814	0.1662987	0.17489360	3.1667962	21	7 3.8	21.3
176541 2002 AR_{52}	14.9	X	226.87480	112.04348	302.30605	9.21783	0.0604842	0.17450289	3.1715213	21	6 27.4	19.5
176542 2002 AE_{72}	15.2	X	227.40822	325.72654	93.52451	11.67008	0.0569528	0.17842027	3.1249274	21	7 3.9	19.8
176543 2002 AR_{77}	15.1	X	188.93793	222.54211	293.71292	9.61905	0.0230876	0.18447088	3.0562169	21	9 16.7	19.7
176544 2002 AK_{81}	15.3	X	262.74042	309.26973	123.70353	10.93991	0.0926888	0.18563370	3.0434406	21	8 31.0	19.6
176545 2002 AM_{87}	15.3	X	118.81892	5.86703	178.29045	5.78995	0.1529174	0.17451733	3.1713463	21	8 14.6	20.2
176546 2002 AC_{89}	14.9	X	256.85808	262.03397	126.79292	26.75708	0.2228416	0.17920690	3.1157760	21	6 15.4	20.1
176547 2002 AQ_{90}	15.2	X	173.54055	258.95573	197.70655	15.76687	0.2290153	0.17608091	3.1525443	21	6 21.8	20.9
176548 2002 AX_{103}	15.9	X	175.38246	204.52975	282.97768	0.61411	0.1445315	0.17687942	3.1430493	21	7 30.6	21.0
176549 2002 AV_{108}	15.3	X	124.01498	109.76837	100.44198	5.70125	0.0698315	0.18059472	3.0997930	21	9 18.1	19.9
176550 2002 AS_{110}	14.5	X	286.48375	66.28985	311.27581	18.17004	0.0558410	0.17770384	3.1333206	21	7 25.8	18.7
176551 2002 AY_{115}	14.9	X	33.96231	5.67774	301.25187	9.76346	0.0862361	0.18368615	3.0649150	21	9 22.4	19.2
176552 2002 AG_{125}	13.9	X	12.60142	311.64851	335.86358	31.81964	0.1422421	0.17136707	3.2100944	21	8 13.2	17.9
176553 2002 AD_{126}	15.1	X	120.67356	75.56619	146.23567	26.24045	0.2514986	0.17593397	3.1542993	21	10 14.2	20.8
176554 2002 AA_{131}	14.8	X	44.10396	303.31407	312.82473	14.83697	0.0987955	0.17448745	3.1717084	21	8 7.8	18.9
176555 2002 AE_{132}	15.2	X	175.12886	33.99821	101.73562	10.97758	0.0490484	0.18055216	3.1002801	21	8 11.9	19.9
176556 2002 AF_{134}	16.3	X	233.39358	233.59875	166.15839	0.46452	0.1819960	0.17753136	3.1353498	21	6 5.3	21.1
176557 2002 AZ_{136}	15.4	X	331.18851	186.68778	128.83532	2.54502	0.1345321	0.17775888	3.1326739	21	6 28.3	19.1
176558 2002 AV_{137}	15.2	X	234.64681	325.71369	122.85714	11.26971	0.0838746	0.18187028	3.0852822	21	8 16.9	19.7
176559 2002 AP_{138}	15.9	X	212.38394	236.35847	172.22632	2.49033	0.2035221	0.17572709	3.1567746	21	5 27.9	21.1
176560 2002 AW_{140}	15.2	X	223.50080	127.25036	262.46696	7.95291	0.0672215	0.17393332	3.1784412	21	5 22.1	20.0

Planet		H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
		m		°	°	°	°		°				
176561	2002 AW_{143}	15.4	X	49.31896	100.32087	204.49168	0.79209	0.1166204	0.18612508	3.0380817	21	10 20.8	19.5
176562	2002 AW_{146}	15.3	X	65.25805	120.32152	114.08365	11.08482	0.1829502	0.17580946	3.1557885	21	8 24.8	19.7
176563	2002 AT_{154}	14.7	X	327.84593	217.17584	142.28256	16.40164	0.0298354	0.17757393	3.1348486	21	8 30.4	18.9
176564	2002 AX_{158}	15.2	X	132.28225	335.22055	159.96646	6.20333	0.1058835	0.17053680	3.2205050	21	6 25.9	20.1
176565	2002 AG_{161}	14.9	X	161.97698	5.37803	134.48789	9.42124	0.1719152	0.17425609	3.1745152	21	8 2.8	20.2
176566	2002 AZ_{180}	15.7	X	172.52145	67.39173	61.12234	16.96955	0.2058542	0.17753047	3.1353603	21	8 2.8	21.3
176567	2002 AU_{184}	15.5	X	219.89810	264.80854	106.63918	11.85942	0.3005794	0.17811466	3.1285008	21	4 21.4	21.3
176568	2002 AU_{188}	14.8	X	319.17594	169.99778	136.33629	17.47607	0.1088774	0.17196448	3.2026555	21	6 4.0	19.3
176569	2002 AW_{190}	14.1	X	15.27576	91.57085	136.13716	18.14257	0.1328703	0.16131630	3.3420829	21	5 24.5	18.5
176570	2002 AU_{208}	15.6	X	228.11190	229.99147	205.67018	4.57631	0.1201998	0.17732838	3.1377419	21	7 18.3	20.4
176571	2002 BZ_{2}	15.3	X	298.57472	68.25082	22.40191	13.77488	0.1913717	0.19105579	2.9855837	21	10 26.1	18.7
176572	2002 BN_{12}	17.2	X	321.60078	90.82563	121.47171	1.50833	0.0334873	0.31051306	2.1598129	21	1 18.1	19.4
176573	2002 BC_{13}	14.7	X	109.97397	125.52863	101.88548	17.38446	0.2237285	0.17789058	3.1311274	21	10 13.0	20.2
176574	2002 BU_{15}	15.0	X	94.81259	64.11875	153.62733	9.54706	0.1529711	0.17470050	3.1691293	21	9 1.5	19.8
176575	2002 CS_{1}	15.1	X	221.75962	9.78604	92.02161	11.02514	0.0814067	0.17989247	3.1078548	21	8 21.2	19.8
176576	2002 CE_{5}	15.1	X	270.23860	49.27661	331.03095	8.44132	0.0988511	0.17555102	3.1588850	21	7 1.4	19.7
176577	2002 CB_{17}	15.4	X	273.64861	65.89455	331.64856	8.09783	0.0941534	0.18006975	3.1058147	21	7 29.1	19.7
176578	2002 CF_{32}	15.4	X	191.42922	130.01253	343.73938	13.28097	0.0975082	0.17605392	3.1528665	21	8 2.7	20.4
176579	2002 CX_{39}	14.4	X	75.28617	61.81928	181.53392	18.09512	0.2572244	0.17400322	3.1775900	21	9 24.2	19.0
176580	2002 CP_{49}	15.6	X	139.09249	205.75583	11.73198	0.51949	0.1312751	0.18244880	3.0787568	21	10 13.3	20.3
176581	2002 CZ_{63}	15.0	X	80.86675	122.93282	110.45382	16.57206	0.1741544	0.17365349	3.1818549	21	9 13.5	19.9
176582	2002 CP_{77}	15.4	X	51.70937	314.68420	328.52415	2.96692	0.0550730	0.17878102	3.1207222	21	9 16.3	19.6
176583	2002 CY_{87}	15.3	X	201.52159	284.28723	139.48766	6.36372	0.1603971	0.17220956	3.1996161	21	6 7.7	20.5
176584	2002 CA_{116}	14.5	X	117.42543	83.74933	87.86123	33.23839	0.0944251	0.16921174	3.2372959	21	7 23.2	19.6
176585	2002 CK_{121}	15.2	X	237.38618	257.91571	147.57605	12.98781	0.3113328	0.17840766	3.1250746	21	6 8.2	20.8
176586	2002 CY_{123}	15.3	X	63.25712	88.74820	141.26814	5.30903	0.0410080	0.17369112	3.1813953	21	7 23.5	19.8
176587	2002 CG_{134}	15.4	X	120.79025	356.56049	159.87351	5.58737	0.1097476	0.16889516	3.2413400	21	7 9.8	20.3
176588	2002 CY_{139}	14.9	X	96.75650	11.30662	170.65808	9.12497	0.1027396	0.17029746	3.2235218	21	7 13.0	19.7
176589	2002 CB_{159}	14.6	X	253.53999	33.46743	342.72077	11.40213	0.0310075	0.16900692	3.2399108	21	6 13.4	19.5
176590	2002 CB_{162}	14.5	X	245.75877	87.69371	335.86491	15.52413	0.0870786	0.17757299	3.1348597	21	7 31.3	19.2
176591	2002 CZ_{172}	14.8	X	10.42499	255.77478	356.39701	15.24457	0.0458129	0.16762121	3.2577424	21	6 7.6	19.5
176592	2002 CS_{175}	15.1	X	328.54663	14.42666	315.57783	9.16086	0.0253425	0.17773685	3.1329327	21	7 24.3	19.4
176593	2002 CB_{176}	14.8	X	26.69741	338.15883	315.85057	16.32731	0.0594157	0.17963117	3.1108680	21	8 24.7	18.9
176594	2002 CA_{182}	15.0	X	272.05636	218.22463	134.16979	11.14131	0.1000400	0.17208183	3.2011992	21	5 30.6	19.7
176595	2002 CC_{238}	15.2	X	144.23332	337.77487	170.72017	16.21181	0.1050846	0.17118068	3.2124242	21	7 23.0	20.4
176596	2002 CV_{245}	15.2	X	160.90538	328.27326	149.14907	11.49789	0.1299597	0.17330772	3.1860857	21	7 4.3	20.4
176597	2002 CO_{246}	15.6	X	42.01502	296.45093	347.43938	4.31378	0.1023144	0.17738930	3.1370235	21	9 10.9	19.7
176598	2002 CJ_{281}	15.5	X	304.74717	69.14829	309.63910	6.40603	0.1922867	0.18160776	3.0882547	21	8 1.2	19.3
176599	2002 CZ_{294}	15.3	X	168.69407	148.45958	344.50774	12.00165	0.1485349	0.17653614	3.1471224	21	8 3.4	20.5
176600	2002 CU_{310}	16.7	X	97.29113	314.26541	109.01802	6.36531	0.1227618	0.30706823	2.1759360	21	1 21.9	18.6
176601	2002 DR_{7}	14.9	X	189.73253	15.25588	79.21374	16.65236	0.2486708	0.17544328	3.1601781	21	7 1.7	20.5
176602	2002 DS_{9}	14.6	X	119.63761	109.18367	85.99883	17.24357	0.1763198	0.17476744	3.1683200	21	9 8.6	20.0
176603	2002 EZ_{41}	16.8	X	92.31100	210.96861	242.10788	2.55394	0.0741249	0.31079797	2.1584928	21	2 17.2	18.8
176604	2002 ED_{48}	17.9	X	168.95061	128.20801	300.53467	0.54250	0.0584107	0.31635654	2.1331342	21	4 30.6	20.4
176605	2002 EQ_{58}	17.1	X	218.86800	34.03292	222.22307	2.45655	0.0988771	0.29768087	2.2214443	21	—	—
176606	2002 EE_{65}	15.3	X	171.82446	325.89211	177.99140	4.28053	0.1011037	0.17315479	3.1879614	21	8 15.2	20.2
176607	2002 EN_{67}	17.2	X	5.79654	243.44723	258.38602	2.18534	0.0643342	0.30258509	2.1973759	21	—	—
176608	2002 EQ_{110}	14.8	X	160.11700	17.48628	151.06107	12.71522	0.1273560	0.17452956	3.1711982	21	9 4.7	19.8
176609	2002 FM_{6}	14.8	X	160.07720	141.39147	62.57402	28.36300	0.1080197	0.18186648	3.0853252	21	10 28.0	20.0
176610	Nunez	17.3	X	113.45990	294.20843	28.67993	1.84272	0.1545923	0.29310744	2.2444925	21	—	—
176611	2002 FC_{29}	16.7	X	359.58981	178.77890	114.89883	6.47701	0.2565252	0.31779268	2.1267027	21	7 30.8	16.9
176612	2002 FO_{30}	17.2	X	324.45727	153.99130	118.79882	8.57709	0.3271651	0.30748694	2.1739602	21	3 4.7	19.8
176613	2002 GA_{39}	14.7	X	89.53974	27.38928	181.62849	5.14993	0.0310009	0.16732741	3.2615547	21	7 28.2	19.3
176614	2002 GA_{45}	16.6	X	121.79330	149.98521	204.77557	5.60027	0.0928178	0.29487947	2.2354915	21	—	—
176615	2002 GN_{57}	17.3	X	329.16460	282.14182	270.14260	5.64834	0.2328627	0.30326600	2.1940856	21	—	—
176616	2002 GS_{65}	15.7	X	62.10244	288.54509	45.17014	6.32103	0.3052426	0.27963255	2.3160303	21	—	—
176617	2002 GO_{89}	14.7	X	346.29983	163.22983	203.31157	15.46851	0.1350717	0.17402459	3.1773298	21	9 30.7	18.5
176618	2002 GR_{99}	17.5	X	294.23578	4.90066	245.11240	1.74024	0.1485669	0.30439580	2.1886532	21	1 19.5	20.4
176619	2002 GP_{112}	16.3	X	179.88856	246.54761	69.67277	8.39823	0.2081563	0.29340605	2.2429694	21	—	—
176620	2002 HJ_{14}	17.2	X	212.80402	322.43436	333.51845	3.03460	0.1841821	0.29684083	2.2256333	21	1 1.1	20.6
176621	2002 JP_{10}	13.8	X	111.76442	110.02085	159.49899	12.52167	0.1773835	0.12511896	3.9590163	21	11 17.1	20.1
176622	2002 JJ_{16}	16.9	X	211.39210	245.54242	62.00709	6.66055	0.2070198	0.29639694	2.2278549	21	1 15.7	20.6
176623	2002 JH_{19}	16.9	X	99.48775	161.78813	105.63022	6.72273	0.0947291	0.27639514	2.3340802	21	11 14.6	20.1
176624	2002 JR_{39}	16.8	X	156.11983	132.66979	106.51446	6.34258	0.1963736	0.28035374	2.3120567	21	12 5.2	20.5
176625	2002 JW_{70}	17.0	X	138.51084	184.35164	51.52009	3.76994	0.1266839	0.27889909	2.3200890	21	11 14.8	20.3
176626	2002 JB_{84}	17.1	X	333.06337	338.60090	263.14750	2.27849	0.1203556	0.30685563	2.1769410	21	3 3.4	19.4
176627	2002 JY_{104}	17.0	X	276.57934	41.03912	240.32539	3.63471	0.1539414	0.30120429	2.2040864	21	2 9.2	20.1
176628	2002 JP_{115}	17.1	X	213.25691	218.35258	87.42295	2.23563	0.2128953	0.29573761	2.2311649	21	1 14.6	20.8
176629	2002 JA_{145}	16.6	X	225.36006	138.73441	132.67700	10.29743	0.1107596	0.29386095	2.2406540	21	—	—
176630	2002 JK_{147}	17.1	X	348.97639	150.52476	65.01491	4.70863	0.0925615	0.30457989	2.1877712	21	2 27.6	19.2
176631	2002 KA	14.3	X	9.92221	83.34480	133.49144	17.21891	0.1083589	0.15683894	3.4053894	21	5 2.7	18.9
176632	2002 LG_{6}	17.0	X	234.02074	164.61717	125.39681	5.05879	0.1392923	0.29648942	2.2273916	21	1 12.0	20.3
176633	2002 LK_{12}	16.5	X	221.36022	208.78869	103.97532	7.55861	0.2141312	0.29538483	2.2329410	21	1 30.4	20.1
176634	2002 LW_{38}	16.4	X	179.99982	186.61731	120.61623	7.90917	0.1866052	0.28914744	2.2649388	21	—	—
176635	2002 LS_{40}	16.5	X	235.65956	82.06130	167.74535	7.02006	0.1148068	0.29114886	2.2545472	21	—	—
176636	2002 LT_{42}	16.1	X	283.74946	185.43214	165.40114	8.33578	0.2439011	0.25579460	2.4577732	21	5 17.8	19.6
176637	2002 LD_{43}	16.5	X	217.91586	130.22876	184.79797	7.18877	0.1660686	0.29345089	2.2427408	21	1 27.4	20.0
176638	2002 MA_{2}	17.1	X	167.95389	51.21722	260.42953	4.68507	0.2208300	0.28564499	2.2834156	21	—	—
176639	2002 NG_{1}	16.7	X	221.31308	111.97316	169.31778	5.56957	0.1725568	0.28959845	2.2625867	21	—	—
176640	2002 NP_{6}	17.3	X	341.51511	168.25504	160.52752	1.49234	0.1826197	0.25968457	2.4331672	21	8 6.3	19.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
176641 2002 NQ_{9}	16.1	X	257.84327	223.04863	147.74681	6.75292	0.2444576	0.25288512	2.4765886	21	5 16.7	20.0
176642 2002 NT_{10}	16.5	X	355.04141	79.60743	276.15595	3.30239	0.2578418	0.26470578	2.4022992	21	11 2.8	18.0
176643 2002 NB_{11}	16.7	X	218.09079	20.19020	268.44043	4.62621	0.2128944	0.29063253	2.2572166	21	—	—
176644 2002 ND_{16}	16.7	X	132.20639	25.09336	311.03624	2.72927	0.1421749	0.28371226	2.2937741	21	—	—
176645 2002 NE_{19}	16.4	X	215.23910	124.81800	139.08836	8.54473	0.1326061	0.28639070	2.2794502	21	—	—
176646 2002 NM_{19}	16.9	X	151.78924	129.43312	152.97145	6.44602	0.2197983	0.27967732	2.3157831	21	—	—
176647 2002 NN_{25}	16.5	X	55.68322	29.86891	283.18528	6.15893	0.2531956	0.26778280	2.3838610	21	12 9.5	20.0
176648 2002 NC_{40}	15.8	X	327.62463	18.21692	313.79599	8.64798	0.2121990	0.25781225	2.4449333	21	7 6.7	17.8
176649 2002 NX_{40}	17.4	X	47.65082	172.66589	133.85715	3.20970	0.1908305	0.26682793	2.3895449	21	11 14.7	20.4
176650 2002 NV_{45}	16.4	X	95.35210	38.15314	264.29358	4.85088	0.1480934	0.27434512	2.3456933	21	12 26.2	19.8
176651 2002 NP_{52}	16.5	X	23.07825	217.48563	114.01706	7.67517	0.1309725	0.26618208	2.3934086	21	11 6.2	19.2
176652 2002 NP_{53}	16.6	X	169.32621	240.23824	128.38777	6.12108	0.2403236	0.23806705	2.5783183	21	3 5.0	21.0
176653 2002 NM_{59}	16.4	X	199.06500	327.17608	299.82018	6.76613	0.1004074	0.28392455	2.2926306	21	—	—
176654 2002 NY_{59}	16.9	X	183.07164	103.64046	123.04663	6.85282	0.0792084	0.27673691	2.3321581	21	12 22.5	20.0
176655 2002 NP_{61}	16.8	X	327.08912	333.12733	14.51503	7.24212	0.1446954	0.26077838	2.4263586	21	8 11.8	19.2
176656 2002 NZ_{65}	16.9	X	119.11392	164.59748	143.11053	7.98718	0.1240200	0.27798940	2.3251478	21	—	—
176657 2002 ON	15.4	X	79.43984	73.17595	268.10486	11.41029	0.1557547	0.22120428	2.7077405	21	—	—
176658 2002 OZ_{6}	16.3	X	249.43455	195.26644	208.00202	8.06051	0.1738797	0.25336267	2.4734756	21	6 24.7	20.1
176659 2002 OA_{9}	16.7	X	201.83314	330.59835	257.81272	4.68682	0.0731990	0.27903064	2.3193598	21	—	—
176660 2002 OC_{11}	16.9	X	53.62894	106.29297	199.00705	1.68905	0.2169789	0.26723176	2.3871369	21	11 23.3	19.9
176661 2002 OW_{17}	16.5	X	301.13382	149.75647	216.83162	5.87537	0.1409988	0.25893540	2.4378582	21	7 18.0	19.3
176662 2002 OX_{26}	17.3	X	169.89972	47.86549	204.69927	3.13005	0.0559704	0.27798689	2.3251618	21	—	—
176663 2002 OO_{27}	16.5	X	46.57125	124.38337	189.04139	5.61440	0.1228309	0.26605591	2.3941652	21	11 12.0	19.4
176664 2002 PM_{15}	17.4	X	56.19186	152.57692	173.00386	2.66450	0.1371419	0.27073989	2.3664711	21	12 12.4	20.4
176665 2002 PG_{25}	16.7	X	113.28709	168.79502	158.52545	3.28941	0.1786637	0.27812881	2.3243707	21	—	—
176666 2002 PJ_{25}	16.8	X	289.66597	200.90024	208.83085	2.47929	0.1854358	0.26066260	2.4270770	21	8 25.3	19.3
176667 2002 PT_{28}	17.0	X	177.53374	83.77093	169.96428	5.56957	0.1426242	0.27895561	2.3197756	21	—	—
176668 2002 PC_{32}	17.1	X	311.64189	42.75773	286.89586	1.51711	0.2010756	0.25458129	2.4655760	21	6 1.4	19.8
176669 2002 PV_{33}	16.9	X	99.53767	120.71963	145.14318	7.36886	0.0743727	0.26699059	2.3885743	21	11 9.9	20.3
176670 2002 PW_{33}	17.1	X	157.96766	99.68938	333.33893	13.48013	0.1366444	0.24410567	2.5356198	21	4 28.6	21.2
176671 2002 PR_{38}	16.4	X	293.90332	194.39366	155.14629	6.47769	0.1341412	0.25488453	2.4636201	21	6 14.6	19.6
176672 2002 PR_{39}	16.9	X	291.91032	232.01830	149.91461	1.75523	0.1949999	0.25765303	2.4459405	21	7 17.6	19.6
176673 2002 PO_{41}	15.8	X	196.97286	200.75050	158.89640	8.56206	0.2143237	0.23829132	2.5767003	21	3 14.5	20.2
176674 2002 PD_{51}	17.1	X	2.47044	251.87274	73.39684	2.99502	0.2180040	0.26251964	2.4156176	21	9 28.4	18.8
176675 2002 PS_{51}	17.1	X	293.00761	339.61030	25.81369	2.63494	0.1966273	0.25623566	2.4549520	21	6 25.1	19.9
176676 2002 PE_{62}	16.6	X	215.57161	220.17528	121.80817	3.24379	0.2205312	0.24219136	2.5489635	21	3 7.9	20.9
176677 2002 PL_{62}	16.6	X	139.10769	330.87814	317.40117	6.25996	0.1091688	0.27762255	2.3271956	21	—	—
176678 2002 PX_{63}	16.1	X	224.25509	142.85486	231.30255	6.20044	0.2761155	0.24601580	2.5224780	21	4 18.5	20.5
176679 2002 PB_{68}	16.9	X	218.96403	125.24995	159.08551	4.20213	0.1313795	0.28858384	2.2678868	21	—	—
176680 2002 PT_{79}	16.9	X	15.86636	16.01404	320.89238	3.09400	0.2031249	0.26440735	2.4041065	21	11 8.4	19.3
176681 2002 PJ_{88}	16.5	X	221.93723	104.69727	155.51895	6.18555	0.1179505	0.28430539	2.2905828	21	—	—
176682 2002 PU_{91}	16.9	X	203.49705	220.29573	149.93776	5.11425	0.3360403	0.24151127	2.5537465	21	4 1.7	21.7
176683 2002 PV_{91}	16.7	X	72.31586	330.35202	327.49970	2.08876	0.1922354	0.26883176	2.3776559	21	11 30.4	20.2
176684 2002 PA_{100}	16.7	X	129.78345	254.74941	62.31919	3.59107	0.1746830	0.27808490	2.3246154	21	—	—
176685 2002 PV_{102}	16.0	X	28.40689	119.47536	284.64645	11.51694	0.3045552	0.22018197	2.7161154	21	—	—
176686 2002 PE_{103}	16.3	X	292.35109	175.50016	188.39041	6.54596	0.0813846	0.25622272	2.4550347	21	7 10.2	19.4
176687 2002 PY_{129}	16.7	X	27.14123	248.12249	79.26873	6.74800	0.2084165	0.26422431	2.4052166	21	11 16.9	19.3
176688 2002 PM_{132}	16.4	X	157.66183	335.43886	313.28695	10.35504	0.1371053	0.28103054	2.3083432	21	—	—
176689 2002 PY_{133}	16.5	X	244.35168	5.49736	344.89665	7.09522	0.2050207	0.24687036	2.5166534	21	4 7.7	20.6
176690 2002 PQ_{136}	16.6	X	123.50269	240.69054	117.89989	0.97141	0.1376892	0.23069330	2.6329709	21	—	—
176691 2002 PQ_{160}	16.6	X	304.45842	10.54249	327.04572	6.76586	0.1527495	0.25510993	2.4621687	21	6 9.2	19.5
176692 2002 PR_{169}	17.1	X	190.62226	86.46023	139.42256	4.17955	0.0691594	0.27483655	2.3428962	21	12 30.8	20.3
176693 2002 PF_{172}	17.0	X	155.19408	128.80161	129.56190	6.63023	0.1293760	0.27599051	2.3363610	21	12 28.9	20.5
176694 2002 PY_{172}	17.3	X	299.65290	322.01286	84.51792	2.56924	0.1760589	0.26130625	2.4230898	21	9 12.2	19.7
176695 2002 QR_{11}	16.5	X	131.50653	222.57686	180.55664	4.64814	0.2704350	0.23625865	2.5914584	21	3 15.2	20.6
176696 2002 QJ_{15}	16.6	X	171.85068	313.87683	318.32925	10.18294	0.2396168	0.27900822	2.3194840	21	—	—
176697 2002 QE_{20}	16.4	X	229.90443	86.08669	253.05219	5.31559	0.1825829	0.24177609	2.5518814	21	3 13.5	20.7
176698 2002 QG_{21}	16.7	X	289.84987	218.39762	156.87494	5.03236	0.2017053	0.25451847	2.4659817	21	7 3.3	19.8
176699 2002 QE_{22}	16.4	X	343.07312	198.80847	163.39019	6.62083	0.1399137	0.26239434	2.4163865	21	10 7.1	18.5
176700 2002 QW_{22}	16.8	X	311.05758	73.92648	140.09749	6.96447	0.1175582	0.29241614	2.2480286	21	—	—
176701 2002 QQ_{25}	16.0	X	95.43441	344.05390	162.73818	8.79195	0.1544994	0.24665865	2.5180933	21	6 3.9	19.5
176702 2002 QY_{27}	16.7	X	75.42164	160.85233	130.76242	5.84136	0.1549050	0.26814171	2.3817333	21	11 23.6	20.1
176703 2002 QK_{30}	16.6	X	104.18099	171.80513	92.77962	4.23781	0.1303171	0.26914513	2.3758099	21	11 16.6	20.0
176704 2002 QC_{33}	17.1	X	76.50297	118.16456	173.31469	4.89819	0.0896031	0.26612600	2.3937448	21	11 16.2	20.3
176705 2002 QC_{37}	16.6	X	64.62519	199.72130	34.75021	2.06601	0.0515517	0.25492994	2.4633275	21	8 6.2	19.5
176706 2002 QD_{44}	16.4	X	331.52441	261.40290	106.90435	7.35670	0.1618993	0.26149653	2.4219142	21	9 24.1	18.6
176707 2002 QZ_{51}	16.8	X	285.70952	100.27872	345.60686	5.84213	0.0791398	0.26541530	2.3980160	21	10 26.8	19.5
176708 2002 QY_{53}	16.9	X	73.66711	187.77494	101.02094	3.41726	0.1507012	0.26716442	2.3875380	21	11 16.7	20.2
176709 2002 QJ_{56}	17.0	X	167.15770	165.07515	86.53000	2.46130	0.1691559	0.27619400	2.3352133	21	12 30.0	20.7
176710 Banff	16.5	X	291.46430	116.24375	348.16234	4.41928	0.0815961	0.26968670	2.3726282	21	12 3.6	19.0
176711 Canmore	16.6	X	278.71528	351.05318	160.25053	6.68176	0.0659579	0.27552683	2.3389815	21	—	—
176712 2002 QB_{66}	17.0	X	177.66395	160.93529	106.24618	4.82935	0.2536012	0.28137010	2.3064856	21	—	—
176713 2002 QO_{66}	16.3	X	168.51961	54.37206	351.30294	11.11644	0.2886012	0.24064111	2.5598990	21	4 14.4	21.0
176714 2002 QH_{67}	17.2	X	293.16844	157.19891	45.96208	0.88469	0.1677504	0.28802985	2.2707939	21	—	—
176715 2002 QJ_{67}	16.9	X	200.41696	293.86460	336.57585	5.21485	0.1484289	0.28379045	2.2933528	21	—	—
176716 2002 QO_{75}	16.8	X	194.32805	123.28847	14.21082	1.49581	0.0802681	0.26059073	2.4275233	21	9 7.2	20.1
176717 2002 QG_{80}	16.7	X	188.22325	232.11639	183.92259	5.35904	0.2303587	0.24516636	2.5283011	21	5 15.1	21.1
176718 2002 QY_{83}	16.7	X	201.31066	329.29818	58.31313	4.06536	0.2016022	0.24460351	2.5321782	21	4 20.5	20.9
176719 2002 QR_{84}	16.7	X	150.15465	270.23409	163.79644	7.30868	0.2124604	0.24251164	2.5467188	21	5 6.1	20.9
176720 2002 QN_{85}	16.8	X	10.28639	50.79976	306.10884	6.03231	0.1400671	0.26585224	2.3953878	21	11 17.4	19.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
176721 2002 QZ_{89}	16.7	X	291.91480	272.34968	94.12933	7.35862	0.0937639	0.25482114	2.4640286	21	7 12.7	19.7
176722 2002 QO_{94}	16.2	X	27.94198	114.03427	251.27034	7.66061	0.1537028	0.21598550	2.7511841	21	12 18.1	19.7
176723 2002 QL_{96}	16.8	X	168.73392	8.53151	239.39152	5.98166	0.0733644	0.27592045	2.3367565	21	—	—
176724 2002 RH_{2}	16.8	X	49.67768	331.84555	347.01761	1.81914	0.2297945	0.26623516	2.3930904	21	12 7.2	20.0
176725 2002 RS_{20}	16.9	X	137.88779	223.45949	94.81037	3.40725	0.1878404	0.27855536	2.3219973	21	—	—
176726 2002 RG_{26}	16.6	X	62.63906	175.01195	116.77291	6.28059	0.1513667	0.26424551	2.4050880	21	11 9.0	19.9
176727 2002 RB_{35}	15.5	X	351.36395	178.70575	246.11560	4.15737	0.0565718	0.21882756	2.7273112	21	12 30.3	19.0
176728 2002 RJ_{42}	17.1	X	279.32562	255.68495	106.25641	3.71443	0.1736982	0.25211635	2.4816205	21	6 5.1	20.2
176729 2002 RG_{43}	16.8	X	226.55377	338.73269	35.85213	3.21767	0.1595639	0.24574835	2.5243078	21	4 26.8	20.6
176730 2002 RQ_{44}	16.3	X	169.24634	275.27215	106.45414	4.27766	0.1493265	0.23803756	2.5785312	21	3 15.8	20.4
176731 2002 RZ_{48}	15.8	X	226.13500	334.92061	151.64231	7.93008	0.0279682	0.26128739	2.4232064	21	10 10.6	18.9
176732 2002 RP_{49}	16.7	X	42.03378	228.59379	124.47204	4.43494	0.1278421	0.26806696	2.3821761	21	12 28.8	19.8
176733 2002 RC_{51}	16.2	X	149.29943	11.31435	33.98805	5.29103	0.1961401	0.23607670	2.5927897	21	3 29.0	20.2
176734 2002 RB_{52}	16.3	X	50.64787	333.68333	18.30698	9.22722	0.1722593	0.26869321	2.3784732	21	—	—
176735 2002 RS_{54}	16.3	X	134.17796	222.66695	148.32267	4.15501	0.2042693	0.23035130	2.6355764	21	1 30.9	20.1
176736 2002 RO_{56}	16.4	X	20.30202	12.79675	308.28630	4.24009	0.1532697	0.26075153	2.4265252	21	10 13.9	18.9
176737 2002 RO_{61}	15.9	X	210.40421	197.65767	171.73039	13.91527	0.2512304	0.24076463	2.5590234	21	4 6.4	20.4
176738 2002 RU_{70}	16.2	X	22.97032	64.18130	220.45954	7.85570	0.0064012	0.25642740	2.4537281	21	8 6.6	19.4
176739 2002 RW_{73}	16.5	X	229.83958	150.01978	332.22611	6.17099	0.0684341	0.26193950	2.4191830	21	9 28.8	19.7
176740 2002 RL_{74}	16.7	X	76.95973	303.43686	335.76920	2.61830	0.1857660	0.26620656	2.3932618	21	11 10.0	20.2
176741 2002 RX_{74}	16.9	X	212.69232	182.11051	215.85777	0.81311	0.1818355	0.24611433	2.5218047	21	5 12.7	21.0
176742 2002 RG_{81}	16.3	X	2.96578	330.82526	355.09137	7.91858	0.1724480	0.25940264	2.4349298	21	9 21.9	18.4
176743 2002 RV_{83}	16.1	X	156.75534	27.43795	3.00909	7.45677	0.2248646	0.23545451	2.5973554	21	3 18.9	20.2
176744 2002 RJ_{84}	16.6	X	74.43818	332.03937	343.38048	4.33068	0.2032892	0.26868791	2.3785044	21	12 26.0	20.2
176745 2002 RN_{94}	16.8	X	210.45528	219.73719	160.47596	4.45211	0.2273566	0.24203243	2.5500792	21	4 19.2	21.1
176746 2002 RZ_{95}	16.4	X	56.35519	329.95550	351.42919	6.89946	0.1191202	0.26507031	2.4000963	21	12 1.9	19.7
176747 2002 RO_{100}	16.5	X	159.16992	13.29538	354.93417	4.62830	0.2360423	0.23225747	2.6211362	21	2 23.9	20.9
176748 2002 RL_{103}	16.1	X	167.19111	197.01244	175.99255	7.35421	0.0953988	0.23461847	2.6035220	21	2 24.3	20.0
176749 2002 RG_{113}	17.1	X	239.25735	217.32147	142.98705	2.74700	0.1923305	0.24622354	2.5210589	21	4 19.9	21.1
176750 2002 RF_{114}	16.8	X	197.46743	215.36043	133.82886	4.56563	0.2738402	0.23758316	2.5818179	21	3 3.6	21.4
176751 2002 RS_{114}	16.3	X	157.57881	319.40403	88.59674	5.49455	0.1373140	0.23843842	2.5756404	21	4 5.9	20.3
176752 2002 RX_{115}	16.7	X	120.81863	330.57257	294.29166	5.57809	0.1027926	0.26930599	2.3748638	21	12 1.1	20.3
176753 2002 RB_{132}	16.6	X	132.87556	61.60459	310.02338	11.71082	0.1931436	0.23029778	2.6359847	21	1 29.4	20.3
176754 2002 RK_{134}	16.7	X	347.71710	211.88742	109.11403	8.33823	0.2267481	0.25698823	2.4501569	21	8 9.4	18.2
176755 2002 RB_{139}	16.2	X	184.87438	349.40011	71.71830	10.18232	0.1192427	0.24441957	2.5334484	21	5 17.5	20.0
176756 2002 RQ_{139}	15.9	X	227.94915	300.27583	75.95439	11.27857	0.1718990	0.24518074	2.5282023	21	5 2.9	20.0
176757 2002 RG_{140}	16.4	X	18.18771	181.63019	108.84327	6.61219	0.1757653	0.25822780	2.4423096	21	9 1.5	18.7
176758 2002 RF_{141}	16.3	X	192.77297	231.14555	149.23212	16.26718	0.2177145	0.23990226	2.5651523	21	4 8.5	20.9
176759 2002 RR_{141}	16.6	X	181.46128	281.91389	132.70060	3.40370	0.2285372	0.24240111	2.5474929	21	5 8.2	20.9
176760 2002 RX_{148}	16.6	X	113.16945	30.08413	252.49817	5.39170	0.1371534	0.27191241	2.3596632	21	12 17.9	20.2
176761 2002 RO_{153}	16.2	X	95.63853	99.47029	329.90140	12.15442	0.2563318	0.22988867	2.6391111	21	3 5.4	19.6
176762 2002 RM_{160}	16.5	X	223.37068	14.63035	174.86659	6.81001	0.0685295	0.27197481	2.3593023	21	12 23.6	19.5
176763 2002 RM_{181}	16.1	X	232.39936	205.13102	147.71100	14.52024	0.3101909	0.24277523	2.5448751	21	4 2.5	20.9
176764 2002 RO_{187}	16.1	X	174.35890	75.68732	334.60251	14.27700	0.1041267	0.24125393	2.5555622	21	4 13.9	20.3
176765 2002 RL_{189}	17.3	X	330.36089	128.48956	219.47763	0.64629	0.1992948	0.25769024	2.4457050	21	8 9.7	19.2
176766 2002 RA_{190}	16.8	X	120.78584	78.87540	194.02932	4.92660	0.1437739	0.27064841	2.3670044	21	12 13.5	20.4
176767 2002 RN_{190}	16.9	X	106.20952	301.19899	339.87699	0.71938	0.1793960	0.26980045	2.3719613	21	12 11.1	20.7
176768 2002 RX_{190}	16.0	X	130.32399	266.41361	145.08708	14.92278	0.1814047	0.23509233	2.6000223	21	3 17.9	19.9
176769 2002 RS_{196}	16.6	X	193.45694	218.14240	150.17320	4.08976	0.1953270	0.24040144	2.5616001	21	3 21.7	20.8
176770 2002 RJ_{199}	17.1	X	124.31542	328.87301	327.73883	1.82055	0.2272515	0.27471294	2.3435990	21	—	—
176771 2002 RS_{203}	16.6	X	17.44556	205.18080	157.01947	6.80309	0.1259993	0.26758087	2.3850602	21	12 7.6	19.4
176772 2002 RD_{205}	16.7	X	279.75263	283.65248	166.73242	5.98645	0.0811620	0.26332999	2.4106593	21	10 27.6	19.4
176773 2002 RY_{205}	16.1	X	224.04547	226.61238	341.50491	8.28022	0.0881507	0.27398584	2.3477434	21	—	—
176774 2002 RG_{225}	16.5	X	137.39718	353.15582	209.38327	6.21248	0.0696668	0.26097806	2.4251209	21	9 26.5	19.9
176775 2002 RG_{228}	16.5	X	41.18356	225.03423	82.28880	7.33358	0.1460029	0.26382780	2.4076259	21	11 1.1	19.4
176776 2002 RV_{229}	16.3	X	152.40382	272.94767	136.14349	13.02226	0.1839222	0.23689906	2.5867859	21	4 8.0	20.6
176777 2002 RA_{236}	17.2	X	141.49719	275.42347	328.89383	3.92307	0.1032666	0.26986599	2.3715773	21	11 26.3	20.7
176778 2002 RF_{242}	16.5	X	246.27625	219.36219	194.20623	6.02972	0.1298179	0.25362598	2.4717633	21	7 9.8	20.1
176779 2002 RU_{246}	16.2	X	216.18432	237.72547	191.87706	14.10361	0.0804708	0.25358125	2.4720540	21	6 30.7	20.0
176780 2002 RE_{247}	16.4	X	279.86059	2.87633	5.76683	6.44519	0.1427205	0.25372087	2.4711470	21	6 19.4	19.7
176781 2002 RK_{266}	17.2	X	347.61383	266.69689	146.08330	4.25427	0.0448078	0.27157746	2.3616030	21	12 21.5	20.0
176782 2002 RG_{272}	17.1	X	345.53861	181.00817	165.21594	5.03625	0.0598438	0.26046352	2.4283136	21	9 13.8	19.5
176783 2002 SP_{1}	16.6	X	113.08178	30.57033	31.22409	3.29189	0.2232772	0.23238858	2.6201503	21	3 15.7	20.3
176784 2002 SN_{8}	17.1	X	203.54008	273.67219	102.55683	0.19606	0.1937899	0.24048482	2.5610080	21	4 7.8	21.2
176785 2002 SR_{10}	16.6	X	176.72965	261.14672	145.42353	3.37328	0.2230590	0.23941853	2.5686063	21	4 24.6	21.0
176786 2002 SZ_{14}	16.0	X	346.61949	357.49418	299.63818	14.56410	0.1404680	0.25222945	2.4808786	21	6 30.7	18.4
176787 2002 SJ_{16}	16.2	X	121.87185	106.19940	286.66933	10.42709	0.2115277	0.22982932	2.6395654	21	2 11.5	20.1
176788 2002 SF_{19}	16.8	X	284.98982	338.95984	20.13280	4.92431	0.0932376	0.25125265	2.4873044	21	6 21.4	20.0
176789 2002 SO_{22}	16.0	X	93.54195	46.42185	17.90004	13.07571	0.1598591	0.22993339	2.6387689	21	2 17.1	19.4
176790 2002 SA_{34}	16.0	X	148.68055	4.16348	14.21993	13.56324	0.1763503	0.23349311	2.6118807	21	2 25.8	20.1
176791 2002 SU_{35}	15.8	X	140.59699	44.86008	21.08523	15.14002	0.1199129	0.23644876	2.5900691	21	4 7.1	19.4
176792 2002 SA_{41}	16.3	X	193.19582	239.66108	152.50460	4.59213	0.1988227	0.23993353	2.5649294	21	4 20.3	20.6
176793 2002 SL_{43}	17.1	X	188.79971	169.61415	201.52429	4.82676	0.2151258	0.23761157	2.5816121	21	3 20.1	21.4
176794 2002 SH_{46}	16.3	X	9.53775	150.67387	184.23432	5.09926	0.0694755	0.25825047	2.4421667	21	10 7.2	18.9
176795 2002 SU_{49}	16.3	X	151.18710	123.59118	149.93548	6.09334	0.1091968	0.27247102	2.3564370	21	—	—
176796 2002 SL_{58}	16.2	X	170.64277	339.71163	78.78567	6.69378	0.1289350	0.23949995	2.5680241	21	5 1.0	20.1
176797 2002 TY_{2}	16.2	X	199.22166	220.56839	198.09975	3.83251	0.0637024	0.24478789	2.5309065	21	5 29.6	19.7
176798 2002 TF_{3}	16.5	X	130.79787	304.80123	13.24543	0.76249	0.1162211	0.27484020	2.3428755	21	—	—
176799 2002 TY_{5}	16.5	X	191.59609	187.73070	167.65826	2.87552	0.1789030	0.23609976	2.5926209	21	3 3.5	20.8
176800 2002 TB_{6}	16.2	X	178.45256	303.82842	63.36195	5.27864	0.2085902	0.23490093	2.6014345	21	3 10.5	20.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
176801 2002 TQ_{9}	16.1	X	224.42076	194.19299	180.50639	13.27250	0.1955212	0.24239198	2.5475429	21	4 25.8	20.4
176802 2002 TS_{9}	16.3	X	134.60371	271.28923	139.54589	4.42073	0.1881787	0.23267073	2.6180316	21	3 21.1	20.2
176803 2002 TO_{10}	17.1	X	219.95948	4.50522	17.81670	2.78316	0.2011250	0.24440780	2.5335298	21	4 28.3	21.2
176804 2002 TK_{21}	16.8	X	175.23744	140.03634	215.83483	2.64855	0.1635172	0.23393634	2.6085806	21	2 16.2	20.9
176805 2002 TJ_{26}	16.5	X	218.04053	277.07697	127.64288	1.99590	0.1204789	0.24497472	2.5296195	21	5 29.7	20.2
176806 2002 TR_{26}	15.9	X	347.17914	237.30454	180.16621	7.65173	0.2141622	0.21134436	2.7913156	21	12 26.2	18.7
176807 2002 TW_{26}	16.0	X	181.64100	353.62588	23.48008	3.98421	0.1359787	0.23636243	2.5906998	21	3 20.4	19.9
176808 2002 TD_{31}	16.4	X	334.16256	314.84204	31.55762	7.85677	0.1191087	0.25461979	2.4653274	21	8 26.8	18.9
176809 2002 TD_{32}	16.3	X	108.12310	191.43896	207.36039	6.16308	0.1489132	0.22747077	2.6577797	21	1 26.0	19.8
176810 2002 TD_{47}	16.3	X	253.40290	302.01652	41.20042	5.64368	0.1847782	0.24248641	2.5468954	21	4 12.5	20.3
176811 2002 TW_{54}	15.8	X	66.96183	152.30131	238.48414	8.83022	0.2029244	0.21843319	2.7305929	21	—	—
176812 2002 TG_{55}	16.4	X	216.28255	321.39023	31.63595	5.82365	0.1875100	0.29337324	2.2431366	21	3 18.4	19.9
176813 2002 TZ_{64}	15.9	X	222.73130	283.74154	77.37428	13.81523	0.2277133	0.24155235	2.5534569	21	4 11.2	20.5
176814 2002 TD_{74}	16.1	X	119.72960	159.96531	223.71201	10.15313	0.2233745	0.22788598	2.6545504	21	1 30.4	20.0
176815 2002 TF_{75}	16.5	X	212.90349	282.96585	84.54347	6.27396	0.1283179	0.24142266	2.5543713	21	4 9.3	20.5
176816 2002 TT_{82}	16.5	X	160.93725	109.90628	291.73340	1.61258	0.1750336	0.23637820	2.5905845	21	3 31.5	20.6
176817 2002 TH_{95}	16.6	X	168.49533	209.23234	354.33027	2.92395	0.1295153	0.26485063	2.4014232	21	10 31.9	20.3
176818 2002 TY_{96}	15.7	X	22.77442	289.03973	145.81560	14.51111	0.1837470	0.21919015	2.7243027	21	—	—
176819 2002 TF_{100}	16.1	X	197.54536	205.89934	338.13565	2.18191	0.1314728	0.26415633	2.4056293	21	11 5.7	19.6
176820 2002 TO_{100}	16.6	X	41.99886	345.58720	329.39641	8.27207	0.1251916	0.26320056	2.4114496	21	11 2.7	19.7
176821 2002 TW_{102}	17.2	X	145.00383	23.67230	342.97330	5.63566	0.2702572	0.23075046	2.6325361	21	2 13.1	21.5
176822 2002 TU_{103}	16.5	X	61.50893	72.71721	353.33153	8.05764	0.2335502	0.22399304	2.6852189	21	—	—
176823 2002 TD_{108}	15.2	X	95.42786	26.56023	343.61878	12.11449	0.2150307	0.22148470	2.7054545	21	—	—
176824 2002 TH_{109}	16.4	X	356.32583	221.59750	93.37643	6.80505	0.1333801	0.25701433	2.4499910	21	8 20.9	18.7
176825 2002 TK_{111}	16.2	X	162.61500	68.48855	289.90244	10.04877	0.2142025	0.23396819	2.6083438	21	2 9.8	20.5
176826 2002 TF_{132}	16.3	X	108.20854	84.37853	350.37514	6.59307	0.1706156	0.23274878	2.6174463	21	3 17.3	19.6
176827 2002 TZ_{154}	15.7	X	350.16090	124.50565	237.35920	6.77722	0.0837867	0.20974721	2.8054675	21	10 4.4	19.1
176828 2002 TY_{162}	15.8	X	198.03802	279.35076	120.21457	14.50251	0.1586555	0.24066590	2.5597232	21	5 7.8	20.2
176829 2002 TH_{166}	16.2	X	312.66632	342.10179	12.76925	7.14629	0.1356636	0.25642624	2.4537355	21	7 25.9	18.8
176830 2002 TS_{169}	16.6	X	153.25621	278.84648	126.45481	4.38054	0.1752128	0.23696854	2.5862803	21	3 31.5	20.6
176831 2002 TZ_{173}	16.6	X	133.35555	294.41113	93.47880	6.85416	0.2127161	0.23144946	2.6272331	21	2 23.5	20.6
176832 2002 TA_{176}	15.8	X	180.29150	78.72041	274.95826	9.63387	0.1745379	0.23389364	2.6088980	21	2 15.9	20.1
176833 2002 TQ_{184}	16.7	X	180.70829	180.85117	211.82061	8.14700	0.1637035	0.23936623	2.5689804	21	4 6.8	20.7
176834 2002 TP_{187}	16.2	X	100.66201	347.84536	341.55841	7.28290	0.1363445	0.27252098	2.3561490	21	—	—
176835 2002 TF_{189}	16.1	X	184.02269	84.27025	334.53788	13.21801	0.1718659	0.24317128	2.5421111	21	5 8.0	20.5
176836 2002 TT_{197}	15.9	X	218.34823	192.68101	359.47645	10.62613	0.1423600	0.26913329	2.3758796	21	12 7.9	19.3
176837 2002 TD_{207}	16.7	X	195.06513	114.79897	255.85999	2.59455	0.1997991	0.23743955	2.5828589	21	3 23.9	21.1
176838 2002 TJ_{207}	15.7	X	68.30435	111.91638	322.88391	3.37286	0.2401795	0.22462782	2.6801577	21	1 27.1	18.0
176839 2002 TG_{208}	16.1	X	189.83393	116.81871	268.41065	3.26881	0.1427072	0.23797372	2.5789923	21	4 4.8	20.3
176840 2002 TA_{210}	16.5	X	176.16092	329.90997	95.30820	6.76866	0.2050684	0.24137924	2.5546776	21	5 16.8	20.7
176841 2002 TQ_{214}	16.1	X	99.71965	282.51406	113.35048	4.86603	0.1874314	0.22628391	2.6670650	21	1 18.8	19.2
176842 2002 TA_{216}	16.2	X	98.88264	289.64154	123.10728	13.43216	0.1953526	0.22661819	2.6644416	21	2 10.9	19.5
176843 2002 TP_{219}	16.0	X	128.88779	38.10645	345.59925	12.67250	0.1703504	0.22968274	2.6406883	21	2 9.2	19.8
176844 2002 TU_{220}	16.3	X	95.79171	20.03510	274.33143	8.48098	0.1551609	0.26855116	2.3793118	21	12 16.3	19.8
176845 2002 TL_{227}	16.4	X	235.18744	176.31381	172.72586	4.99380	0.1752136	0.24016921	2.5632511	21	4 3.3	20.5
176846 2002 TV_{227}	16.4	X	250.19843	280.18879	97.52973	3.54873	0.1803261	0.24579302	2.5240020	21	5 23.3	20.3
176847 2002 TE_{229}	16.0	X	187.30853	350.16574	72.04972	5.91452	0.0976657	0.24243487	2.5472564	21	5 20.6	19.7
176848 2002 TG_{229}	16.6	X	125.15164	315.96979	49.84037	5.88102	0.1853042	0.22676685	2.6632770	21	1 14.1	20.3
176849 2002 TK_{230}	15.7	X	182.75628	273.57558	93.69774	12.77686	0.1970438	0.23637598	2.5906008	21	3 17.2	20.3
176850 2002 TM_{233}	15.8	X	156.77167	93.66482	309.11161	11.07432	0.1976930	0.23575873	2.5951205	21	3 25.8	20.2
176851 2002 TA_{234}	16.2	X	177.73199	82.39510	300.48498	8.25857	0.2210480	0.23680892	2.5874423	21	3 22.2	20.7
176852 2002 TQ_{239}	16.4	X	132.42438	317.64567	339.60125	5.67827	0.2045696	0.27275091	2.3548247	21	—	—
176853 2002 TS_{246}	16.7	X	150.63486	158.42644	204.89210	1.95721	0.1498859	0.23011431	2.6373856	21	2 1.2	20.6
176854 2002 TF_{250}	16.5	X	174.92996	32.66049	34.70290	3.74932	0.1032062	0.24163591	2.5528682	21	5 13.3	20.3
176855 2002 TC_{258}	16.6	X	135.99684	308.32878	87.88128	4.68688	0.2313910	0.23082290	2.6319853	21	3 10.2	20.6
176856 2002 TY_{261}	16.9	X	225.20551	232.94905	135.15038	3.06002	0.1817954	0.24220937	2.5488372	21	4 17.9	20.9
176857 2002 TZ_{264}	15.9	X	78.32250	76.09995	19.41268	2.06754	0.1708022	0.22750840	2.6574866	21	3 4.3	18.9
176858 2002 TW_{265}	15.6	X	77.05535	116.99274	254.82200	8.38667	0.2295089	0.21717285	2.7411472	21	—	—
176859 2002 TQ_{269}	16.2	X	52.98511	335.06104	270.36498	5.48081	0.1007797	0.25297342	2.4760123	21	8 9.4	19.2
176860 2002 TS_{274}	16.5	X	149.04597	137.76700	232.82548	3.18710	0.2610448	0.23098939	2.6307204	21	2 18.1	20.8
176861 2002 TX_{280}	16.0	X	167.81928	149.61658	248.63747	6.51355	0.1905642	0.23602405	2.5931753	21	4 1.8	20.3
176862 2002 TU_{286}	15.6	X	109.73833	151.79966	239.26485	11.93304	0.2408648	0.22616934	2.6679656	21	1 29.6	19.4
176863 2002 TL_{295}	15.7	X	177.57651	50.93458	345.43143	12.07633	0.2070565	0.23640578	2.5903831	21	4 6.9	20.1
176864 2002 TR_{295}	15.6	X	71.11887	38.68319	348.08177	12.94857	0.2789963	0.21971919	2.7199279	21	—	—
176865 2002 TB_{296}	15.3	X	214.35991	77.70712	281.99109	12.74482	0.2007363	0.23772023	2.5808253	21	3 20.8	19.9
176866 Kuropatkin	16.3	X	56.05961	288.16888	122.29268	11.84255	0.1051275	0.22026415	2.7154397	21	—	—
176867 Brianlee	16.8	X	193.29217	21.29779	348.65665	4.80527	0.1049636	0.23936070	2.5690200	21	3 20.2	20.6
176868 2002 TF_{374}	16.4	X	103.50354	32.81940	180.33881	6.42739	0.0925866	0.25203530	2.4821525	21	9 2.1	19.9
176869 2002 UH	16.7	X	157.63629	16.76006	26.70175	2.05261	0.1720768	0.23454271	2.6040826	21	3 31.7	20.7
176870 2002 UB_{1}	15.7	X	137.94376	52.43280	321.78088	17.20144	0.1864461	0.22694145	2.6619108	21	2 7.2	19.5
176871 2002 UP_{3}	15.2	X	162.88358	276.23519	71.16673	11.36586	0.3712805	0.23406574	2.6076190	21	2 13.9	20.1
176872 2002 US_{7}	16.6	X	80.72314	274.02503	124.75121	8.96694	0.2455795	0.22319917	2.6915823	21	1 1.5	19.3
176873 2002 UP_{22}	15.7	X	62.94350	33.71397	41.32972	3.39376	0.1792662	0.22270084	2.6955961	21	1 9.8	18.3
176874 2002 UB_{23}	16.1	X	65.38119	2.58602	68.12413	7.45917	0.1684510	0.22243255	2.6977631	21	1 7.3	18.9
176875 2002 UC_{23}	15.8	X	237.21007	241.17111	101.73886	4.35862	0.2529405	0.23918206	2.5702990	21	3 26.2	20.3
176876 2002 UU_{31}	16.2	X	89.80930	50.41398	7.64542	12.67280	0.1014386	0.22712197	2.6605001	21	1 24.7	19.7
176877 2002 UQ_{37}	16.6	X	160.00617	11.98046	30.10230	2.96591	0.1257089	0.23481006	2.6021056	21	3 29.2	20.4
176878 2002 UL_{39}	16.3	X	132.83869	287.21215	118.36330	2.63439	0.1334648	0.23074028	2.6326135	21	3 5.9	20.1
176879 2002 UR_{40}	15.9	X	110.19966	301.36089	80.10595	12.53352	0.2096228	0.22500989	2.6771229	21	1 19.4	19.5
176880 2002 UB_{41}	16.5	X	136.27202	350.46217	57.11392	4.52261	0.0984944	0.23127332	2.6285668	21	3 9.4	20.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
176881 2002 UT_{44}	16.4	X	337.29737	255.49036	107.39478	8.48775	0.1395648	0.25716038	2.4490633	21	9 28.6	18.8
176882 2002 UC_{49}	16.2	X	102.85997	286.81603	176.49495	12.46632	0.2250246	0.23148635	2.6269539	21	4 28.1	20.0
176883 2002 UF_{50}	15.9	X	149.76007	222.61065	146.65147	11.31490	0.1400106	0.22803781	2.6533720	21	2 7.1	19.7
176884 Jallynsmith	16.1	X	59.36231	275.94891	96.96249	8.09010	0.0322163	0.21711172	2.7416617	21	—	—
176885 2002 UV_{72}	16.1	X	114.01256	294.54546	90.51757	12.23854	0.2146427	0.22605000	2.6689045	21	1 29.9	19.8
176886 2002 VG	15.8	X	9.21686	53.05748	53.62472	11.35042	0.1502055	0.21992689	2.7182152	21	—	—
176887 2002 VL	15.5	X	223.15694	208.68347	26.94627	23.85835	0.1825808	0.27337935	2.3512145	21	—	—
176888 2002 VP_{6}	16.1	X	101.08616	228.06534	211.22778	8.49030	0.0904574	0.23006301	2.6377777	21	2 27.6	19.6
176889 2002 VO_{9}	16.1	X	273.56937	327.21837	355.36893	6.44723	0.1953785	0.24276570	2.5449417	21	4 3.2	20.0
176890 2002 VJ_{21}	15.9	X	69.27997	306.43567	326.52117	6.77484	0.2133267	0.25923144	2.4360018	21	10 24.9	19.4
176891 2002 VR_{31}	15.8	X	118.39888	228.45344	184.23429	2.49846	0.1029785	0.22795182	2.6540393	21	2 20.4	19.4
176892 2002 VA_{32}	15.9	X	94.26323	37.26654	64.74585	6.63271	0.1533880	0.22981937	2.6396416	21	4 5.2	19.3
176893 2002 VT_{37}	15.6	X	87.73579	333.25349	104.87358	13.27062	0.1383944	0.22738598	2.6584404	21	2 21.7	19.0
176894 2002 VA_{41}	15.7	X	226.21603	104.80172	251.57728	8.84586	0.1004424	0.23791463	2.5794193	21	4 3.4	19.8
176895 2002 VJ_{43}	16.2	X	208.59567	275.09423	89.31311	4.72518	0.1250969	0.23722089	2.5844458	21	3 31.9	20.2
176896 2002 VO_{44}	16.0	X	139.55474	278.56920	92.35261	7.22360	0.1701445	0.22744784	2.6579584	21	2 3.8	20.0
176897 2002 VP_{50}	16.0	X	135.93522	348.89657	60.33352	6.68625	0.0651399	0.23285770	2.6166300	21	3 7.8	19.7
176898 2002 VO_{51}	16.3	X	104.72109	241.25609	130.65391	4.75887	0.2115234	0.22353576	2.6888798	21	—	—
176899 2002 VN_{53}	16.3	X	218.85126	252.45019	120.44677	1.65463	0.1227389	0.23908166	2.5710186	21	4 20.0	20.2
176900 2002 VN_{57}	16.2	X	183.84356	289.81063	133.67829	4.98717	0.1393759	0.24091128	2.5579848	21	5 20.2	20.2
176901 2002 VQ_{61}	15.8	X	161.60625	102.12111	322.52508	4.04248	0.0808167	0.23756303	2.5819638	21	4 22.6	19.6
176902 2002 VA_{65}	16.2	X	80.53975	98.61889	338.10074	8.82762	0.1755836	0.22684303	2.6626807	21	2 11.9	19.2
176903 2002 VR_{66}	16.8	X	237.65935	71.59150	279.63517	0.65407	0.2387420	0.24094844	2.5577218	21	4 3.5	21.2
176904 2002 VQ_{67}	15.7	X	77.72173	25.61012	4.57205	10.07912	0.2178732	0.22037946	2.7144924	21	—	—
176905 2002 VD_{68}	15.3	X	191.37746	99.77784	248.51351	11.66626	0.2174852	0.23236900	2.6202974	21	2 19.1	20.0
176906 2002 VA_{71}	16.3	X	280.35887	227.32195	95.01885	6.47428	0.2587994	0.24480754	2.5307710	21	4 7.2	20.2
176907 2002 VL_{71}	16.5	X	357.02709	221.33941	112.62724	4.28536	0.2183455	0.25659862	2.4526364	21	9 28.8	18.3
176908 2002 VJ_{77}	16.0	X	93.84586	346.48363	64.15321	14.81934	0.0670663	0.22465313	2.6799565	21	1 13.6	19.6
176909 2002 VN_{78}	16.3	X	191.87818	265.25873	90.26275	6.21497	0.1918836	0.23329283	2.6133753	21	3 7.5	20.7
176910 2002 VR_{78}	16.3	X	9.64752	251.86261	169.68592	3.85916	0.1805530	0.21335027	2.7737922	21	—	—
176911 2002 VS_{80}	15.8	X	139.05497	281.58183	112.98386	5.48659	0.1382746	0.22900034	2.6459317	21	2 28.7	19.6
176912 2002 VB_{83}	16.2	X	27.20669	200.63021	199.64418	4.33165	0.1600507	0.21362426	2.7714199	21	—	—
176913 2002 VJ_{83}	15.5	X	154.42720	285.94160	68.96572	26.69472	0.0771524	0.22539703	2.6740566	21	1 21.5	19.8
176914 2002 VN_{83}	15.9	X	173.61854	261.64935	133.25179	5.80399	0.1506235	0.23421651	2.6064999	21	4 6.1	20.0
176915 2002 VW_{83}	15.1	X	246.98234	268.56573	97.32176	6.16588	0.1703890	0.24049915	2.5609063	21	5 7.4	19.0
176916 2002 VU_{87}	15.8	X	27.91464	213.96387	260.47539	10.64744	0.1399213	0.22201603	2.7011363	21	—	—
176917 2002 VP_{88}	15.7	X	44.92820	27.22602	70.18504	13.41687	0.1244701	0.22285158	2.6943804	21	1 3.3	18.7
176918 2002 VJ_{93}	16.4	X	170.10779	291.02580	170.24431	3.81128	0.0875506	0.24225536	2.5485146	21	6 21.7	20.2
176919 2002 VD_{105}	16.2	X	192.91780	8.82925	357.19999	4.07339	0.2069037	0.23474905	2.6025564	21	3 18.2	20.4
176920 2002 VE_{106}	16.2	X	293.62165	17.90023	329.25677	2.43672	0.2030743	0.24729030	2.5138035	21	5 29.4	19.3
176921 2002 VE_{107}	16.5	X	151.94399	32.70528	7.39728	2.39884	0.0773916	0.23261788	2.6184281	21	3 13.4	20.2
176922 2002 VS_{108}	15.5	X	131.00279	33.47592	53.63369	14.32358	0.0672630	0.23385272	2.6092023	21	4 20.5	19.1
176923 2002 VT_{109}	15.8	X	83.85572	332.67905	48.61194	10.24501	0.1762946	0.21916831	2.7244837	21	—	—
176924 2002 VG_{113}	16.3	X	120.30363	113.85325	226.12786	1.43830	0.2500477	0.22169802	2.7037187	21	—	—
176925 2002 VS_{118}	16.0	X	203.25798	343.35827	14.98151	7.62969	0.1980930	0.23518352	2.5993502	21	3 18.7	20.3
176926 2002 VA_{119}	15.6	X	101.26808	184.38630	255.64451	20.80210	0.0740787	0.22870622	2.6481997	21	2 18.4	19.6
176927 2002 VS_{119}	15.3	X	6.78785	74.41073	39.31368	10.19276	0.1683829	0.21675113	2.7447016	21	—	—
176928 2002 VK_{121}	15.0	X	168.92656	114.06778	273.00255	11.72022	0.1729881	0.23315078	2.6144367	21	3 15.6	19.5
176929 2002 VW_{121}	16.1	X	235.50242	43.08147	305.91114	7.51387	0.2176704	0.24012921	2.5635358	21	3 27.7	20.5
176930 2002 VL_{129}	15.8	X	10.26539	131.56228	253.29774	5.27573	0.0087667	0.21090416	2.7951983	21	11 29.1	19.6
176931 2002 VM_{136}	15.9	X	276.07134	258.06438	30.41193	4.51023	0.1086991	0.23556470	2.5965453	21	3 7.6	19.5
176932 2002 VC_{139}	15.9	X	68.48924	155.01489	316.75224	7.49943	0.0356260	0.23005109	2.6378688	21	2 19.5	19.2
176933 2002 WR_{1}	16.4	X	156.73423	144.87066	247.80133	2.31543	0.1191473	0.23175165	2.6249487	21	3 11.9	20.3
176934 2002 WW_{3}	16.3	X	123.30143	298.59868	86.87398	6.96991	0.0604165	0.22519357	2.6756669	21	1 18.8	19.8
176935 2002 WP_{5}	15.8	X	140.20977	239.29321	144.21045	14.24563	0.2943320	0.22911323	2.6450625	21	3 3.9	20.1
176936 2002 WA_{9}	15.0	X	309.35030	270.81492	253.17263	14.21066	0.0368464	0.22044139	2.7139840	21	—	—
176937 2002 WF_{9}	16.6	X	189.86822	355.89586	24.71842	1.59754	0.1266416	0.23525352	2.5988346	21	3 31.8	20.6
176938 2002 WD_{12}	15.7	X	18.86735	275.98915	144.71910	13.23386	0.1692527	0.21409312	2.7673722	21	—	—
176939 2002 WH_{14}	15.8	X	75.68390	334.22070	83.28892	19.09887	0.2717594	0.22246896	2.6974688	21	1 24.7	18.7
176940 2002 WY_{14}	15.6	X	61.00372	13.53693	95.95046	13.06194	0.1389631	0.22568304	2.6717969	21	2 22.3	18.7
176941 2002 WF_{18}	15.6	X	94.50179	326.15110	121.57794	12.92147	0.1683648	0.22872767	2.6480342	21	3 22.1	19.2
176942 2002 WZ_{19}	16.2	X	204.54639	104.47786	241.50555	4.91270	0.1296034	0.23269780	2.6178285	21	3 1.0	20.4
176943 2002 WQ_{21}	16.1	X	34.71209	194.35061	115.68900	4.80057	0.1839534	0.25523930	2.4613366	21	10 30.6	19.0
176944 2002 WW_{21}	16.2	X	187.36069	314.82979	89.41961	10.32828	0.0601801	0.23806676	2.5783204	21	4 30.6	20.0
176945 2002 XL_{2}	16.3	X	210.05143	160.35729	184.79889	4.31656	0.2474189	0.23448433	2.6045148	21	3 6.4	21.0
176946 2002 XJ_{8}	15.6	X	61.97786	95.89836	70.83071	13.58961	0.2022593	0.23322734	2.6138645	21	5 21.3	18.4
176947 2002 XR_{8}	15.0	X	53.64984	140.08464	70.71914	10.76059	0.0397666	0.18798977	3.0179584	21	6 15.1	19.0
176948 2002 XM_{12}	15.7	X	45.80686	64.62021	0.41361	8.10264	0.1579102	0.21868037	2.7285349	21	—	—
176949 2002 XA_{18}	16.1	X	111.85053	268.21968	77.20050	3.89766	0.0909880	0.21713279	2.7414844	21	—	—
176950 2002 XN_{21}	16.0	X	194.57334	107.41155	318.89679	3.34680	0.1526154	0.24051245	2.5608119	21	6 1.3	20.1
176951 2002 XU_{21}	15.6	X	15.23749	342.49471	72.30882	9.09653	0.2176058	0.21111194	2.7933639	21	—	—
176952 2002 XP_{28}	16.1	X	25.66990	351.95305	78.61290	5.93607	0.0970039	0.21470715	2.7620936	21	—	—
176953 2002 XG_{33}	15.8	X	116.06092	326.29500	111.44343	13.61827	0.1155504	0.22944174	2.6425371	21	3 30.7	19.7
176954 2002 XK_{34}	15.2	X	190.37830	337.30424	86.67535	9.49493	0.0723988	0.18480693	3.0525109	21	5 29.3	19.8
176955 2002 XR_{34}	16.1	X	143.51261	93.71118	337.73513	4.42442	0.1757349	0.23403710	2.6078318	21	4 20.3	20.2
176956 2002 XZ_{34}	15.9	X	115.06741	16.01566	60.88457	9.29104	0.0990088	0.22985985	2.6393317	21	3 24.1	19.6
176957 2002 XL_{38}	16.0	X	78.93221	64.26387	307.59885	2.56528	0.1940699	0.21711053	2.7416718	21	—	—
176958 2002 XY_{41}	15.3	X	325.08997	13.40446	299.18931	6.64707	0.2079775	0.24551903	2.5258794	21	5 29.8	17.9
176959 2002 XE_{44}	15.6	X	33.49675	335.87746	56.70604	6.91894	0.0714946	0.21182053	2.7871308	21	—	—
176960 2002 XA_{45}	15.8	X	93.92503	355.57368	101.00397	14.84187	0.1975379	0.23019468	2.6367717	21	4 9.5	19.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
176961 2002 XZ_{47}	15.8	X	119.37329	72.21846	271.96447	5.41541	0.1281892	0.21880042	2.7275368	21	—	—
176962 2002 XY_{48}	16.5	X	7.66519	219.99158	227.76990	2.96703	0.0940043	0.21538759	2.7562732	21	—	—
176963 2002 XG_{53}	15.6	X	112.52000	84.05642	269.82079	11.56316	0.1278448	0.21788570	2.7351652	21	—	—
176964 2002 XS_{53}	15.9	X	100.65666	173.66264	222.23759	6.72448	0.0291578	0.22223232	2.6993834	21	—	—
176965 2002 XN_{54}	15.5	X	131.63039	112.46603	232.57912	8.34549	0.0454730	0.21934123	2.7230516	21	—	—
176966 2002 XA_{55}	15.8	X	100.28235	258.61990	111.36016	6.78383	0.0576341	0.21830365	2.7316730	21	—	—
176967 2002 XB_{56}	16.0	X	117.63305	255.59092	122.00512	12.08101	0.2037001	0.22349704	2.6891902	21	1 22.0	19.6
176968 2002 XO_{56}	15.9	X	246.37926	23.12655	317.50218	15.01273	0.1512040	0.24001735	2.5643322	21	3 27.3	20.1
176969 2002 XS_{56}	16.0	X	213.10510	28.66950	324.88609	12.65378	0.2813537	0.23780968	2.5801782	21	3 14.4	20.9
176970 2002 XK_{57}	15.7	X	258.30869	357.01269	111.38393	7.27490	0.0677423	0.20143487	2.8821259	21	10 16.1	19.7
176971 2002 XW_{61}	15.8	X	142.26833	106.74599	253.31794	5.10678	0.0919287	0.22311688	2.6922440	21	1 13.3	19.6
176972 2002 XC_{62}	15.7	X	300.48855	42.42162	286.51507	6.71019	0.2439455	0.24585973	2.5235454	21	5 5.3	19.2
176973 2002 XH_{63}	15.4	X	109.52679	85.01554	281.92173	7.35695	0.0755163	0.21882447	2.7273369	21	—	—
176974 2002 XY_{63}	15.2	X	213.97347	355.04666	82.90880	11.35124	0.0395618	0.19035918	2.9928630	21	7 13.9	19.6
176975 2002 XD_{70}	15.8	X	146.59186	271.47609	145.37610	8.89696	0.0740686	0.23209897	2.6223294	21	3 30.8	19.5
176976 2002 XX_{71}	15.6	X	128.53641	81.18041	280.23899	10.28455	0.2201564	0.22425731	2.6831089	21	1 15.6	19.5
176977 2002 XH_{88}	15.9	X	183.50495	34.36049	324.52178	12.15739	0.2651765	0.22994395	2.6386881	21	3 2.2	20.6
176978 2002 XK_{89}	15.7	X	169.10479	237.10244	124.60774	14.73839	0.3190825	0.23107046	2.6301051	21	3 2.9	20.5
176979 2002 XR_{101}	16.2	X	22.02516	357.97396	69.68806	6.43945	0.1727948	0.21484538	2.7609086	21	—	—
176980 2002 XE_{102}	16.0	X	84.65020	109.43997	264.64059	2.90065	0.1125682	0.21723387	2.7406339	21	—	—
176981 2002 XJ_{116}	15.5	X	228.64929	337.89815	130.40918	12.50699	0.1323516	0.18819711	3.0157413	21	8 30.8	20.1
176982 2002 YK_{4}	15.8	X	2.67883	20.74609	64.98917	12.54737	0.2361284	0.21202869	2.7853063	21	—	—
176983 2002 YS_{10}	16.0	X	104.10501	145.58814	269.45874	1.82156	0.1310811	0.22266066	2.6959203	21	2 10.1	19.5
176984 2002 YC_{19}	15.4	X	255.03965	62.29434	279.58799	4.77980	0.1964077	0.23816393	2.5776190	21	4 8.3	19.5
176985 2002 YV_{19}	15.3	X	276.97721	91.53083	269.00669	3.48551	0.2928983	0.24555595	2.5256262	21	5 14.6	19.2
176986 2002 YP_{23}	15.9	X	15.18920	312.84939	114.45060	2.77413	0.1928849	0.21206047	2.7850280	21	—	—
176987 2002 YQ_{27}	15.9	X	186.52888	95.94692	84.65579	3.10495	0.1394232	0.19631184	2.9320524	21	10 15.7	20.5
176988 2002 YR_{29}	15.1	X	127.45786	183.71123	295.32829	7.31238	0.0468785	0.17907545	3.1173006	21	5 23.7	19.7
176989 2003 AY_{4}	14.8	X	256.05648	73.08870	283.70451	14.40520	0.1372650	0.18408836	3.0604491	21	5 6.6	19.6
176990 2003 AD_{9}	15.9	X	79.46438	348.49540	44.06352	11.06360	0.3683683	0.22411797	2.6842209	21	1 13.7	18.5
176991 2003 AY_{9}	15.8	X	339.58125	316.97342	143.40873	5.57080	0.1364356	0.21255510	2.7807058	21	—	—
176992 2003 AC_{13}	15.9	X	68.99373	260.34085	152.57852	10.80591	0.1716340	0.21751647	2.7382596	21	—	—
176993 2003 AE_{13}	15.6	X	57.80909	179.37093	235.29674	8.59248	0.1582118	0.21583908	2.7524282	21	—	—
176994 2003 AK_{15}	15.3	X	304.56838	347.32268	32.34152	23.73664	0.1842072	0.25756212	2.4465160	21	8 23.9	18.5
176995 2003 AZ_{15}	15.1	X	322.23381	203.50571	97.55083	11.71513	0.0442272	0.18356058	3.0663127	21	6 6.1	19.2
176996 2003 AW_{16}	15.3	X	88.34561	318.19842	89.92090	13.53878	0.1604875	0.22046032	2.7138287	21	1 15.7	18.6
176997 2003 AK_{30}	16.1	X	345.63926	11.24600	142.65666	4.03065	0.1790079	0.21462259	2.7628190	21	—	—
176998 2003 AW_{30}	15.4	X	296.39454	235.32759	312.60452	8.26202	0.1487457	0.21058817	2.7979937	21	—	—
176999 2003 AG_{36}	15.1	X	66.61206	48.89308	336.81060	12.57953	0.2299964	0.21623169	2.7490955	21	—	—
177000 2003 AW_{39}	15.0	X	140.22461	295.14231	129.67178	18.76319	0.1715761	0.17488278	3.1669268	21	4 22.2	20.3
177001 2003 AH_{47}	15.8	X	332.92333	105.77819	87.68014	9.33295	0.2115299	0.21871192	2.7282725	21	1 2.6	19.3
177002 2003 AG_{59}	14.7	X	96.96770	44.16464	118.26911	16.77532	0.2345255	0.17651215	3.1474076	21	7 6.9	19.5
177003 2003 AC_{62}	16.6	X	83.75935	274.67644	143.83941	23.51109	0.1109972	0.37652735	1.8993501	21	—	—
177004 2003 AA_{85}	15.4	X	24.77424	169.67861	237.96752	8.82136	0.1119452	0.21164650	2.7886584	21	—	—
177005 2003 AV_{92}	15.3	X	339.15886	38.78194	31.42954	16.21309	0.1934638	0.20590753	2.8402369	21	12 22.6	18.5
177006 2003 BO	14.6	X	113.98218	39.57514	116.61341	27.43432	0.1237955	0.17932015	3.1144641	21	7 5.3	19.3
177007 2003 BW_{1}	15.3	X	166.15564	323.03449	123.99767	11.52402	0.2051236	0.18146301	3.0898968	21	6 6.5	20.6
177008 2003 BD_{7}	15.4	X	304.58459	315.21618	124.41952	13.72361	0.0445215	0.19959303	2.8998295	21	11 14.5	19.5
177009 2003 BB_{8}	16.1	X	286.26839	315.54958	122.11696	3.23788	0.1565123	0.19644602	2.9307170	21	9 28.6	19.8
177010 2003 BX_{10}	15.6	X	214.62537	163.43870	335.03549	12.96622	0.1075753	0.19193262	2.9764838	21	9 19.4	20.2
177011 2003 BV_{19}	15.1	X	241.20321	283.16872	3.70212	13.69814	0.0295661	0.21711000	2.7416762	21	2 7.5	19.1
177012 2003 BU_{24}	15.2	X	181.38127	55.93336	166.20491	15.28829	0.1255635	0.19809881	2.9143931	21	11 30.9	20.1
177013 2003 BE_{26}	15.6	X	266.22297	253.43367	186.00739	8.90955	0.0729622	0.19304997	2.9649876	21	9 12.8	19.8
177014 2003 BZ_{29}	15.8	X	79.90583	234.27177	178.05206	8.47158	0.1700789	0.22100785	2.7093446	21	1 7.2	18.9
177015 2003 BL_{36}	15.3	X	97.79775	112.28105	140.89821	12.51927	0.1700369	0.18913781	3.0057336	21	10 24.7	20.2
177016 2003 BM_{47}	19.8	X	163.50298	155.34906	137.58693	13.80735	0.5821071	0.78878285	1.1601062	21	—	—
177017 2003 BX_{48}	15.4	X	294.01755	306.12823	301.57240	10.77582	0.1822196	0.21993615	2.7181388	21	1 27.1	19.3
177018 2003 BU_{50}	15.1	X	340.23189	70.55467	293.05679	8.21137	0.0571028	0.19262409	2.9693563	21	9 16.9	19.1
177019 2003 BW_{57}	16.0	X	250.60856	311.70808	141.36591	10.57942	0.0777206	0.19235444	2.9721307	21	9 12.9	20.3
177020 2003 BW_{61}	14.9	X	105.22779	215.08508	255.14247	20.77878	0.0716935	0.17416706	3.1755969	21	4 15.8	19.8
177021 2003 BT_{65}	15.7	X	7.05790	4.10170	93.72005	12.20117	0.1597160	0.21151064	2.7898524	21	—	—
177022 2003 BQ_{73}	16.2	X	273.48396	103.89427	343.14683	5.61637	0.1929160	0.19684634	2.9267423	21	9 15.0	20.0
177023 2003 BW_{79}	15.4	X	195.66688	152.25904	4.82192	10.13086	0.0377008	0.19301693	2.9653260	21	9 30.4	19.7
177024 2003 BH_{80}	17.1	X	33.02080	283.04281	142.51711	23.57456	0.1204967	0.36859300	1.9265102	21	—	—
177025 2003 BB_{82}	16.1	X	256.06728	154.06716	10.57543	1.62800	0.1892116	0.20085931	2.8876291	21	11 30.9	20.1
177026 2003 BP_{82}	15.6	X	56.86016	303.84256	99.03418	13.24364	0.1167844	0.21169022	2.7882744	21	—	—
177027 2003 BR_{84}	15.8	X	264.98814	123.00386	48.75692	6.32328	0.0994941	0.20401901	2.8577372	21	—	—
177028 2003 BX_{84}	16.2	X	171.38116	298.96733	210.19636	1.09102	0.1820080	0.18596268	3.0398502	21	8 22.2	21.3
177029 2003 BS_{90}	14.8	X	345.80893	251.49662	353.14214	10.73406	0.1943781	0.22804745	2.6532972	21	3 31.6	17.6
177030 2003 BT_{90}	15.9	X	346.15139	74.59184	35.40406	7.65774	0.1438581	0.21080791	2.7960490	21	—	—
177031 2003 BM_{92}	15.3	X	154.38869	294.42182	271.48651	10.79969	0.1055915	0.19189655	2.9768568	21	10 9.5	20.2
177032 2003 CU_{1}	15.7	X	330.83813	86.53376	94.81217	6.17574	0.0521983	0.21795280	2.7346038	21	1 8.2	19.2
177033 2003 CS_{3}	14.9	X	181.82162	26.43460	153.40496	17.98332	0.1610121	0.18978570	2.9988890	21	10 11.9	20.0
177034 2003 CA_{5}	15.6	X	0.64936	106.44840	91.99191	14.46008	0.1298774	0.22446324	2.6814677	21	3 12.2	18.9
177035 2003 CS_{6}	14.9	X	96.76783	118.22555	118.68306	9.49102	0.1292781	0.18723163	3.0260998	21	9 29.2	19.5
177036 2003 CG_{21}	16.1	X	31.98597	12.04258	318.13228	1.60268	0.0265851	0.19155882	2.9803546	21	10 17.5	20.1
177037 2003 CU_{21}	15.6	X	272.98592	97.00354	151.87709	8.64915	0.1443678	0.21571518	2.7534820	21	1 11.8	19.9
177038 2003 CW_{25}	15.2	X	19.66258	42.38237	183.51123	5.28382	0.0763256	0.17174598	3.2053712	21	5 21.9	19.3
177039 2003 DA_{5}	15.9	X	241.87316	48.46498	160.87524	8.56126	0.2446091	0.20433070	2.8548303	21	12 31.5	20.2
177040 2003 DQ_{6}	17.2	X	212.01835	224.61776	154.67290	23.95536	0.1078504	0.39066291	1.8532525	21	4 13.2	19.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
177041 2003 DZ_9	16.8	X	12.33958	44.73331	100.55985	22.43861	0.0327115	0.37776038	1.8952148	21	—	—
177042 2003 DV_{11}	15.2	X	228.84646	234.92505	159.90032	11.18886	0.0667765	0.17787880	3.1312657	21	6 5.6	20.0
177043 2003 DL_{18}	15.6	X	222.60764	117.38840	355.46094	14.33087	0.1704421	0.18987622	2.9979358	21	8 28.4	20.4
177044 2003 DK_{22}	16.3	X	308.52213	307.55130	170.58063	6.78358	0.2033449	0.20358541	2.8617935	21	12 25.2	19.2
177045 2003 DP_{24}	15.6	X	142.93031	354.10154	136.67091	6.14609	0.0908682	0.17749657	3.1357595	21	6 30.6	20.4
177046 2003 EK_5	15.3	X	170.77436	332.15234	136.69101	13.70245	0.1082739	0.18022159	3.1040700	21	7 3.2	20.3
177047 2003 ES_5	15.0	X	73.12380	208.96640	341.12123	7.07713	0.1405557	0.17365280	3.1818633	21	7 1.0	19.4
177048 2003 EX_7	14.9	X	25.26080	308.92670	309.17247	10.05242	0.0882580	0.17858162	3.1230448	21	7 13.1	18.9
177049 2003 EE_{16}	19.9	X	24.46069	259.57506	127.14341	0.65039	0.6141561	0.58399127	1.4175286	21	—	—
177050 2003 EW_{19}	15.8	X	139.72916	356.15264	180.88992	5.58939	0.2106800	0.18248162	3.0783876	21	8 29.3	21.0
177051 2003 EG_{21}	15.3	X	226.28624	162.90116	350.23135	9.37221	0.0058082	0.19240118	2.9716493	21	11 1.4	19.7
177052 2003 EA_{24}	15.7	X	131.29790	162.28540	1.55908	9.58705	0.1769132	0.17954185	3.1118997	21	8 8.2	20.8
177053 2003 EP_{26}	15.9	X	183.03736	140.95476	350.79735	5.48884	0.1338854	0.18348103	3.0671989	21	8 13.6	20.9
177054 2003 EY_{35}	15.6	X	106.53177	63.20975	95.39725	2.35302	0.0855376	0.17541992	3.1604586	21	6 23.9	20.2
177055 2003 EV_{39}	15.3	X	94.82587	141.45100	64.35861	15.20082	0.0930235	0.17980516	3.1088608	21	8 15.8	20.1
177056 2003 EY_{41}	15.6	X	292.23373	153.64731	56.98192	7.83549	0.2014097	0.21103821	2.7940145	21	—	—
177057 2003 EB_{46}	14.9	X	39.06383	246.31437	344.78193	9.66487	0.2043858	0.17204916	3.2016044	21	7 14.6	18.8
177058 2003 EG_{52}	14.7	X	23.15208	275.88280	17.39995	16.85064	0.1570710	0.18054133	3.1004040	21	9 8.7	18.6
177059 2003 EJ_{52}	15.7	X	280.76377	305.24776	155.70774	10.82284	0.0485251	0.19321477	2.9633015	21	11 6.2	19.8
177060 2003 EG_{58}	14.9	X	41.30223	243.49091	6.79815	9.50665	0.1353699	0.17624178	3.1506256	21	8 4.9	19.0
177061 2003 EA_{59}	14.6	X	215.97408	33.04429	19.36825	27.60431	0.1439619	0.17808148	3.1288894	21	5 29.1	20.0
177062 2003 FD_3	17.0	X	303.19089	117.84916	114.13851	23.46677	0.0631241	0.37458567	1.9059081	21	1 1.7	19.1
177063 2003 FM_3	17.1	X	346.24575	122.08090	85.88355	22.76848	0.0860971	0.37792090	1.8946781	21	1 24.9	19.1
177064 2003 FQ_4	14.3	X	42.37003	107.58615	142.56965	25.91014	0.2718050	0.17307942	3.1888868	21	8 24.4	18.1
177065 Samuelnoah	15.9	X	162.66123	0.66445	179.08422	5.48187	0.0326204	0.18601148	3.0393185	21	9 19.8	20.3
177066 2003 FE_8	14.8	X	124.36834	61.19211	146.80645	23.64493	0.1594897	0.18056446	3.1001393	21	9 23.4	20.0
177067 2003 FG_{15}	15.3	X	206.40201	169.72816	357.10803	12.19133	0.1197800	0.19098833	2.9862867	21	10 14.5	19.9
177068 2003 FC_{17}	16.1	X	157.86137	29.35472	71.76412	2.50246	0.1589670	0.17688628	3.1429679	21	6 12.9	21.2
177069 2003 FR_{19}	14.9	X	235.80851	21.12261	31.31269	17.58589	0.0827753	0.17982738	3.1086048	21	7 2.9	19.8
177070 2003 FN_{23}	16.1	X	83.95052	222.17422	15.44149	2.17656	0.2109605	0.18155405	3.0888638	21	9 21.7	20.8
177071 2003 FS_{29}	15.2	X	115.15230	114.48288	25.72975	13.84796	0.1461100	0.17317000	3.1877746	21	6 16.7	20.2
177072 2003 FN_{32}	15.7	X	134.27116	102.94416	55.59630	2.21744	0.0943464	0.17809340	3.1287498	21	7 26.9	20.3
177073 2003 FY_{33}	16.7	X	201.26310	292.67432	172.62329	1.76390	0.1770520	0.18205288	3.0832189	21	7 25.9	21.7
177074 2003 FD_{34}	15.1	X	231.52378	193.17043	178.87945	8.56924	0.0227967	0.17072772	3.2181036	21	5 15.6	19.8
177075 2003 FR_{36}	15.7	X	329.14586	214.40815	184.59766	10.33123	0.0202042	0.18926932	3.0043411	21	10 23.4	19.8
177076 2003 FV_{42}	15.8	X	166.78492	150.58677	11.02881	5.25952	0.2149661	0.18359104	3.0659735	21	9 4.1	21.0
177077 2003 FL_{45}	16.0	X	170.28428	161.51194	61.18900	1.06868	0.2037033	0.19219241	2.9738009	21	11 16.1	21.0
177078 2003 FV_{45}	15.5	X	140.80417	145.21139	21.44173	8.18033	0.1311745	0.17964226	3.1107400	21	8 17.9	20.5
177079 2003 FA_{47}	15.1	X	78.64151	235.60624	15.03618	8.92166	0.0473900	0.18198663	3.0839671	21	9 12.2	19.5
177080 2003 FW_{49}	15.1	X	94.14858	100.88075	158.79661	18.09795	0.1679392	0.18348072	3.0672023	21	10 27.9	20.1
177081 2003 FX_{52}	14.9	X	227.08181	356.13630	141.57347	12.83515	0.0406885	0.18960952	3.0007464	21	10 17.6	19.3
177082 2003 FT_{55}	15.0	X	327.86910	295.32357	349.89079	9.83713	0.1131262	0.17310281	3.1885995	21	5 12.3	19.3
177083 2003 FO_{56}	15.9	X	187.96482	119.74570	104.34853	2.29451	0.0376103	0.19741106	2.9211581	21	12 13.4	19.9
177084 2003 FZ_{56}	15.7	X	103.21603	277.19249	331.74081	2.25264	0.0962298	0.18736430	3.0246710	21	10 12.2	20.3
177085 2003 FU_{58}	14.8	X	49.30869	138.93074	157.35204	10.48633	0.0460957	0.18602948	3.0391225	21	10 2.2	19.0
177086 2003 FE_{69}	14.8	X	52.78832	219.62170	45.15119	12.92921	0.1447206	0.17914854	3.1164527	21	9 14.9	19.2
177087 2003 FY_{69}	15.5	X	110.53689	91.55029	107.11506	6.35255	0.0917993	0.17934834	3.1141377	21	8 20.7	20.1
177088 2003 FN_{72}	15.3	X	141.55554	75.32969	40.67130	15.74643	0.2264213	0.17482263	3.1676531	21	6 18.7	20.8
177089 2003 FB_{73}	14.9	X	87.17692	186.52880	22.37827	15.71413	0.0354070	0.17693586	3.1423808	21	8 2.4	19.6
177090 2003 FR_{73}	14.6	X	194.63542	247.29767	175.62574	21.44464	0.0469274	0.17110395	3.2133845	21	6 3.8	19.8
177091 2003 FX_{73}	15.0	X	76.38792	60.03166	176.55731	10.21531	0.0077168	0.17912346	3.1167436	21	8 11.9	19.5
177092 2003 FD_{74}	15.2	X	63.85719	169.61849	28.86156	15.52302	0.1862718	0.17140294	3.2096466	21	7 6.8	19.7
177093 2003 FT_{77}	15.0	X	88.66258	227.17515	25.62583	9.35360	0.0663251	0.18408329	3.0605053	21	9 29.5	19.4
177094 2003 FA_{82}	15.0	X	38.37375	168.45461	104.45601	9.62738	0.2001112	0.17742179	3.1366405	21	9 9.5	18.9
177095 2003 FT_{88}	15.3	X	101.30878	136.64183	33.99133	14.48000	0.0495214	0.17336673	3.1853626	21	6 27.8	20.0
177096 2003 FP_{90}	14.8	X	135.90956	312.61301	230.52113	8.95616	0.0343107	0.18053564	3.1004692	21	8 19.4	19.5
177097 2003 FO_{92}	14.7	X	122.00294	57.66833	177.01731	9.64539	0.0810681	0.18553426	3.0445280	21	10 15.9	19.2
177098 2003 FL_{94}	15.1	X	127.18630	8.59860	153.98200	11.35495	0.1510382	0.17572032	3.1568556	21	7 27.5	20.1
177099 2003 FW_{97}	15.3	X	164.28105	259.62083	181.69972	10.47546	0.1572479	0.17361756	3.1822939	21	5 27.3	20.6
177100 2003 FZ_{98}	15.3	X	172.38521	135.59009	26.70222	6.62826	0.0412151	0.18462295	3.0545384	21	9 11.8	19.8
177101 2003 FW_{101}	15.4	X	119.62683	184.33561	352.85761	7.38469	0.1526508	0.17807545	3.1289600	21	8 10.2	20.3
177102 2003 FT_{102}	14.9	X	78.83292	246.68648	359.11154	6.21805	0.1064666	0.17983415	3.1085267	21	9 12.6	19.4
177103 2003 FT_{115}	15.6	X	94.00942	237.78822	324.90571	2.34903	0.1420368	0.17560702	3.1582134	21	8 11.4	20.3
177104 2003 FC_{116}	14.6	X	10.76106	81.03365	143.55298	15.33972	0.1111576	0.16874352	3.2432815	21	5 11.3	18.9
177105 2003 FM_{121}	15.1	X	164.03400	25.17969	188.20642	13.86545	0.0864393	0.19107198	2.9854150	21	11 3.6	19.7
177106 2003 FC_{130}	16.1	X	16.08114	233.55987	100.17912	0.18419	0.0802818	0.18605718	3.0388208	21	10 6.1	19.9
177107 2003 FM_{130}	15.6	X	71.75404	39.79857	224.38661	1.03425	0.1249605	0.18201880	3.0836037	21	9 28.8	19.9
177108 2003 FC_{131}	15.3	X	186.62708	86.58194	9.09218	16.28508	0.2004442	0.17985757	3.1082569	21	7 3.5	20.9
177109 2003 GZ_2	15.0	X	6.63312	283.99966	348.80149	6.08805	0.1299932	0.17497668	3.1657936	21	7 3.9	18.8
177110 2003 GZ_5	14.6	X	46.64496	182.83703	33.87410	12.77213	0.1154100	0.16988236	3.2287706	21	6 22.4	18.9
177111 2003 GN_7	15.2	X	359.43487	101.13736	184.40465	4.96601	0.1501927	0.17417651	3.1754821	21	7 6.9	18.8
177112 2003 GU_{10}	15.1	X	184.10736	342.64089	154.01464	18.25991	0.1391172	0.18085837	3.0967797	21	8 18.5	20.1
177113 2003 GF_{14}	14.8	X	39.73791	217.05007	31.42258	10.73746	0.1709330	0.17626697	3.1503255	21	8 5.8	18.8
177114 2003 GL_{16}	15.0	X	109.53576	110.69680	83.10241	19.16492	0.0375265	0.17810495	3.1286145	21	8 9.1	19.7
177115 2003 GP_{16}	15.3	X	86.16170	18.28231	147.41633	16.07504	0.0996187	0.17215801	3.2002548	21	6 12.2	20.1
177116 2003 GJ_{27}	15.4	X	194.96136	268.14261	221.07470	4.54004	0.0958735	0.18174682	3.0866793	21	8 20.2	20.2
177117 2003 GM_{27}	15.9	X	183.54426	276.08925	197.56841	7.55256	0.1257893	0.17955305	3.1117703	21	7 19.9	21.0
177118 2003 GM_{37}	14.9	X	168.87528	104.86064	15.96673	26.43500	0.2000220	0.17835154	3.1257301	21	7 26.9	20.7
177119 2003 GE_{47}	16.0	X	154.69508	65.59274	141.60337	4.12070	0.0543115	0.18998352	2.9968069	21	10 17.0	20.4
177120 Ocampo Uria	15.7	X	353.18312	357.58623	20.14868	1.78500	0.0140636	0.18785695	3.0193806	21	10 25.9	19.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
177121 2003 GW_{55}	15.3	X	236.37573	100.46774	15.74796	8.49198	0.0515491	0.18588701	3.0406752	21	9 26.8	19.6
177122 2003 HD_{3}	15.4	X	154.27387	161.28977	28.15724	5.83758	0.1082154	0.18391406	3.0623825	21	9 25.3	20.1
177123 2003 HS_{5}	15.4	X	202.97043	64.59024	41.19519	12.24900	0.1172320	0.18011376	3.1053087	21	8 4.6	20.5
177124 2003 HV_{9}	15.3	X	8.94393	218.92188	59.57152	6.14124	0.1947069	0.17162977	3.2068180	21	7 19.2	18.7
177125 2003 HV_{10}	14.9	X	26.54778	266.70367	1.66553	8.31339	0.1986679	0.17596689	3.1539060	21	8 12.2	18.5
177126 2003 HE_{12}	15.5	X	118.44894	87.02964	168.18254	10.07442	0.1192376	0.18514930	3.0487466	21	11 9.3	20.3
177127 2003 HO_{20}	14.7	X	42.46658	198.04368	57.45605	13.47373	0.0521712	0.17391062	3.1787179	21	8 3.2	19.2
177128 2003 HU_{24}	15.5	X	157.06594	121.45461	200.29812	12.36383	0.1180417	0.20120067	2.8843621	21	—	—
177129 2003 HS_{31}	15.1	X	348.33390	277.56138	38.88355	9.32906	0.0768856	0.17547090	3.1598464	21	8 4.2	19.3
177130 2003 HG_{43}	15.3	X	50.82690	211.52554	48.54418	8.90240	0.0723618	0.17530779	3.1618062	21	8 23.8	19.7
177131 2003 HN_{51}	14.9	X	37.50645	156.98322	169.36921	9.93361	0.0411247	0.18538401	3.0461728	21	10 23.9	19.1
177132 2003 HA_{54}	15.4	X	35.72131	34.68536	194.32606	5.69719	0.0641307	0.17159268	3.2072800	21	6 17.3	19.6
177133 2003 JL_{3}	16.2	X	151.15937	163.28786	33.56043	1.23942	0.1578955	0.18387924	3.0627690	21	10 1.0	21.2
177134 2003 JB_{14}	15.1	X	198.25359	30.10125	152.02689	10.55109	0.1353799	0.18806444	3.0171594	21	10 29.9	20.0
177135 2003 KQ_{11}	15.3	X	129.10875	71.70697	69.74752	19.06688	0.1206112	0.17082752	3.2168501	21	6 30.9	20.4
177136 2003 KK_{17}	15.3	X	127.83266	56.22812	196.72699	9.93538	0.0938197	0.18401244	3.0612908	21	11 13.0	20.0
177137 2003 PB_{10}	17.1	X	338.39357	30.93376	313.86887	2.11977	0.1908669	0.27518863	2.3408975	21	8 27.6	18.5
177138 2003 QE_{6}	16.9	X	109.45655	229.92006	146.29514	6.41693	0.1729839	0.29777050	2.2209985	21	—	—
177139 2003 QC_{12}	16.5	X	268.79134	129.62597	202.99389	0.60379	0.1985799	0.26188769	2.4195020	21	4 10.3	20.0
177140 2003 QQ_{35}	16.9	X	75.62542	237.00460	138.87941	3.35749	0.1834789	0.29231256	2.2485596	21	—	—
177141 2003 QC_{36}	17.1	X	35.39107	190.63077	191.07755	1.26798	0.2411686	0.28530163	2.2852473	21	—	—
177142 2003 QT_{38}	17.0	X	21.90607	264.93919	96.14767	0.71759	0.0924466	0.28221213	2.3018955	21	12 9.9	19.6
177143 2003 QV_{54}	17.0	X	24.27545	221.98893	119.23333	2.80060	0.2243026	0.27998624	2.3140794	21	12 7.1	19.5
177144 2003 QO_{61}	16.7	X	28.72064	249.88215	125.24848	2.81897	0.2462573	0.28247199	2.3004835	21	—	—
177145 2003 QZ_{75}	16.2	X	318.87159	196.66695	209.24540	4.70563	0.2220448	0.27573406	2.3378094	21	10 21.3	17.6
177146 2003 QO_{77}	16.5	X	88.82529	21.79570	282.75449	5.47448	0.2341513	0.28553432	2.2840056	21	12 30.1	20.2
177147 2003 QM_{79}	16.9	X	125.10464	16.88664	343.55178	6.15636	0.1812655	0.29592764	2.2302097	21	—	—
177148 Pätzold	17.1	X	315.84868	348.25395	147.33519	4.20148	0.1519976	0.29099438	2.2553450	21	—	—
177149 2003 QR_{95}	16.6	X	308.41710	323.28488	55.40776	4.54457	0.2164637	0.27277430	2.3546900	21	8 11.4	18.7
177150 2003 RR	17.2	X	209.81807	340.82969	352.26895	6.74713	0.1243289	0.30692580	2.1766092	21	2 12.2	20.3
177151 2003 RU_{8}	15.6	X	47.10776	3.87048	24.92894	27.32704	0.2363554	0.28568868	2.2831828	21	—	—
177152 2003 RJ_{19}	17.2	X	356.81793	100.07587	295.65105	1.40748	0.2106389	0.28073684	2.3099528	21	—	—
177153 2003 SW_{11}	16.9	X	108.65698	57.66459	351.57566	3.18613	0.0719682	0.30131778	2.2035329	21	1 14.1	19.2
177154 2003 SH_{16}	16.8	X	31.62289	32.07446	339.26748	2.04800	0.2034633	0.28321441	2.2964614	21	—	—
177155 2003 SE_{23}	16.6	X	42.06136	54.58087	3.43315	6.77447	0.1150058	0.29025769	2.2591595	21	—	—
177156 2003 SL_{31}	17.7	X	199.91196	323.88404	351.26194	1.45439	0.1083463	0.30017725	2.2091110	21	1 8.4	20.6
177157 2003 SF_{33}	17.2	X	318.20480	235.58766	136.01218	2.80068	0.1864270	0.27212496	2.3584344	21	8 24.6	18.8
177158 2003 SN_{39}	17.0	X	11.63690	227.19041	189.19518	5.25907	0.1430724	0.28485272	2.2876476	21	—	—
177159 2003 SD_{47}	16.6	X	80.19681	149.25245	239.46855	3.29555	0.1148753	0.29284253	2.2458459	21	—	—
177160 2003 SU_{83}	17.4	X	280.68665	213.56728	150.98264	2.09807	0.2364415	0.26525376	2.3989895	21	5 31.6	20.6
177161 2003 SG_{84}	17.4	X	12.27714	25.28280	352.78923	4.22639	0.2666099	0.28008471	2.3135370	21	—	—
177162 2003 SC_{97}	17.0	X	67.78966	194.73028	171.44882	4.84854	0.1870791	0.28733996	2.2744271	21	—	—
177163 2003 SN_{110}	16.6	X	133.88331	19.94206	300.82890	2.19534	0.2375501	0.29207203	2.2497939	21	—	—
177164 2003 ST_{125}	16.9	X	230.26579	292.50405	25.14357	3.81413	0.1932902	0.30732237	2.1747363	21	2 12.0	20.3
177165 2003 SD_{128}	16.8	X	131.50315	329.04602	14.56281	7.68776	0.2162272	0.29452844	2.2372674	21	—	—
177166 2003 SJ_{128}	17.1	X	47.34772	176.48980	244.98414	2.23120	0.1223248	0.29076041	2.2565547	21	—	—
177167 2003 SL_{131}	16.4	X	95.94666	184.80197	196.71852	6.71410	0.1247857	0.29277072	2.2462131	21	—	—
177168 2003 SX_{138}	16.0	X	292.03516	54.09199	338.57252	6.74666	0.1225152	0.26842282	2.3800702	21	8 17.4	18.5
177169 2003 SC_{144}	17.2	X	111.78564	77.77649	342.95631	7.45820	0.0962000	0.30059236	2.2070767	21	2 9.4	19.5
177170 2003 SL_{145}	16.4	X	288.38348	71.30820	301.74487	6.14375	0.1343809	0.26622297	2.3931635	21	7 10.3	19.1
177171 2003 SE_{146}	16.9	X	339.15622	45.00286	336.71137	2.33100	0.2860618	0.27420272	2.3465053	21	11 9.8	17.9
177172 2003 SK_{147}	15.9	X	80.44932	167.70718	221.74368	12.85059	0.1458378	0.23490601	2.6013969	21	—	—
177173 2003 SP_{164}	16.9	X	127.94145	333.07975	22.66336	8.56658	0.1695871	0.29451281	2.2373466	21	—	—
177174 2003 SM_{169}	16.7	X	36.67023	338.12026	49.51466	3.76858	0.1830797	0.28540101	2.2847168	21	—	—
177175 2003 SM_{170}	16.5	X	305.81847	270.53202	239.43903	1.51950	0.1778226	0.28934990	2.2638822	21	—	—
177176 2003 SY_{174}	16.9	X	61.03568	296.80146	172.02183	6.16764	0.1226894	0.30114821	2.2043600	21	1 23.6	18.8
177177 2003 SG_{204}	16.0	X	307.69410	23.97985	36.37805	8.26245	0.2465347	0.27160367	2.3614511	21	10 13.8	17.4
177178 2003 SD_{218}	17.2	X	83.91057	275.21134	169.07091	1.86227	0.0525031	0.29918235	2.2140057	21	1 22.8	19.5
177179 2003 SF_{224}	16.8	X	9.18426	67.60728	340.28958	4.90904	0.0931037	0.28160784	2.3051873	21	—	—
177180 2003 SQ_{245}	17.5	X	201.61627	55.96714	274.83116	0.29087	0.1295842	0.30436676	2.1887924	21	1 30.7	20.5
177181 2003 SE_{248}	17.6	X	167.59719	240.04647	155.16388	1.84583	0.1079563	0.30642246	2.1789921	21	3 18.6	20.3
177182 2003 SU_{249}	16.5	X	356.46325	209.80287	178.74784	2.52257	0.1741247	0.27774816	2.3264939	21	12 19.5	18.7
177183 2003 ST_{263}	16.8	X	355.92806	34.06326	22.28657	10.35755	0.1999968	0.28152455	2.3056420	21	—	—
177184 2003 SU_{290}	17.1	X	100.21782	153.75445	214.33450	4.42021	0.1121049	0.29056949	2.2575431	21	—	—
177185 2003 TT_{8}	16.9	X	341.67323	105.73450	314.34354	6.56469	0.0753094	0.27870740	2.3211527	21	12 27.7	19.4
177186 2003 TZ_{16}	17.7	X	226.53937	318.89602	46.98516	2.45152	0.1090808	0.31107687	2.1572025	21	4 13.1	20.6
177187 2003 TQ_{18}	16.7	X	64.37889	9.16149	35.04270	7.02485	0.1003146	0.28956598	2.2627558	21	—	—
177188 2003 UR_{1}	17.2	X	319.12714	201.45519	253.61616	2.83057	0.2205519	0.27988908	2.3146149	21	—	—
177189 2003 UW_{4}	15.9	X	355.02295	359.81168	68.26944	26.15865	0.2531372	0.28093847	2.3088474	21	—	—
177190 2003 UA_{8}	18.0	X	77.41564	52.89894	111.32879	1.28116	0.1346231	0.31142881	2.1555769	21	5 25.3	20.1
177191 2003 UD_{10}	16.9	X	85.26408	194.01908	195.72086	5.85513	0.1060652	0.29152823	2.2525908	21	—	—
177192 2003 UC_{15}	17.4	X	348.84858	68.11628	16.62521	3.51464	0.1652812	0.28304727	2.2973654	21	—	—
177193 2003 UO_{15}	17.0	X	255.31351	77.60664	246.18898	1.97770	0.2136050	0.30970030	2.1635900	21	3 10.1	20.3
177194 2003 UZ_{16}	16.3	X	7.61842	199.39008	193.46751	3.01881	0.1357491	0.27912789	2.3188210	21	—	—
177195 2003 UL_{29}	16.6	X	150.47932	278.81802	52.99329	3.07305	0.1319898	0.23724607	2.5842629	21	—	—
177196 2003 UC_{38}	17.0	X	74.79632	179.87325	173.43428	2.73556	0.1340807	0.28367608	2.2939691	21	—	—
177197 2003 UV_{38}	17.0	X	240.31942	250.88572	218.91175	1.49928	0.1578289	0.27023912	2.3693937	21	9 15.1	20.0
177198 2003 UB_{49}	16.9	X	325.65260	267.61881	140.19739	3.19473	0.1618977	0.27427968	2.3460664	21	11 13.6	18.6
177199 2003 UD_{54}	16.8	X	341.90620	95.29679	345.56764	7.07195	0.0692149	0.28135339	2.3065770	21	—	—
177200 2003 UL_{86}	16.5	X	357.76437	39.87466	359.17931	6.06256	0.2096145	0.27740520	2.3284110	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
177201 2003 UZ_{86}	16.8	X	38.68387	219.93871	169.69576	6.33163	0.1410847	0.28313811	2.2968740	21	—	—
177202 2003 UJ_{91}	16.9	X	92.96318	230.51387	167.26217	6.07219	0.1179418	0.29358585	2.2420535	21	—	—
177203 2003 UF_{92}	16.5	X	92.63403	120.33199	247.09630	4.60176	0.1899060	0.29016590	2.2596359	21	—	—
177204 2003 UP_{96}	16.8	X	39.09353	267.08915	128.79686	5.87893	0.1696202	0.28403051	2.2920604	21	—	—
177205 2003 UU_{98}	16.9	X	0.09668	35.40495	24.91138	3.38847	0.1385129	0.28118973	2.3074719	21	—	—
177206 2003 US_{103}	16.7	X	274.67224	290.03140	142.13480	2.66393	0.1923954	0.26789353	2.3832041	21	9 4.2	19.2
177207 2003 UQ_{105}	17.0	X	27.08242	247.66252	39.82941	3.58236	0.1213680	0.26933488	2.3746940	21	9 6.5	19.3
177208 2003 UK_{109}	17.0	X	230.14805	211.96568	22.85163	7.75208	0.0710814	0.28864555	2.2675636	21	—	—
177209 2003 UD_{117}	16.5	X	39.27951	357.22748	70.04751	6.86959	0.0872112	0.28897847	2.2658217	21	—	—
177210 2003 UE_{134}	16.7	X	136.57277	23.61139	316.48949	6.92903	0.1616920	0.29382112	2.2408565	21	—	—
177211 2003 UZ_{140}	16.7	X	20.69699	19.39156	353.87192	4.84933	0.1657249	0.27899612	2.3195511	21	—	—
177212 2003 UN_{145}	16.2	X	148.60553	270.85621	83.19372	3.51870	0.1957681	0.24031288	2.5622295	21	1 23.3	20.0
177213 2003 UT_{147}	16.6	X	34.75392	8.65937	43.29670	5.76623	0.1662057	0.28457538	2.2891338	21	—	—
177214 2003 UX_{154}	17.2	X	302.53596	223.69275	113.12127	3.11519	0.2569199	0.26509475	2.3999487	21	5 18.9	19.9
177215 2003 UO_{159}	17.2	X	253.68133	323.88216	157.97669	2.06810	0.1542674	0.27151730	2.3619519	21	10 21.3	20.1
177216 2003 UX_{164}	17.1	X	310.81889	252.08208	202.37795	2.31421	0.1726469	0.27823344	2.3237879	21	12 24.7	18.7
177217 2003 UA_{173}	17.3	X	43.39661	86.66467	337.33873	3.63585	0.0957076	0.28929061	2.2641915	21	—	—
177218 2003 UL_{174}	17.3	X	115.59524	73.78488	289.60676	2.05549	0.1045191	0.29475234	2.2361342	21	—	—
177219 2003 UO_{175}	16.5	X	276.78892	262.02054	222.33411	6.58101	0.0563418	0.27911853	2.3188728	21	12 14.4	19.0
177220 2003 UN_{188}	16.4	X	73.98779	348.55177	8.30150	6.78396	0.1161147	0.28450810	2.2894946	21	—	—
177221 2003 UW_{196}	16.7	X	69.59845	294.05241	158.08622	2.23306	0.1487967	0.24039896	2.5616178	21	2 5.6	19.1
177222 2003 UJ_{208}	17.1	X	68.61434	72.27445	54.27805	5.25091	0.0419748	0.30218316	2.1993240	21	3 3.2	19.4
177223 2003 UT_{208}	17.5	X	103.46649	284.41937	120.20884	1.48102	0.1207726	0.29530133	2.2333620	21	1 7.5	19.5
177224 2003 UL_{218}	17.1	X	23.32855	271.65682	137.34846	3.37400	0.1592446	0.28329533	2.2960241	21	—	—
177225 2003 UN_{218}	16.5	X	327.73854	276.81209	109.97548	3.45525	0.1818928	0.27109027	2.3644317	21	10 14.8	18.2
177226 2003 UE_{224}	17.2	X	83.51285	344.85005	10.48926	5.52552	0.2166424	0.28740366	2.2740911	21	—	—
177227 2003 UV_{232}	17.2	X	54.55553	235.32179	224.04038	2.41532	0.0289266	0.29678606	2.2259072	21	—	—
177228 2003 UB_{234}	16.5	X	21.42041	127.25363	338.23250	6.82788	0.0596171	0.28983507	2.2613551	21	—	—
177229 2003 UL_{236}	17.1	X	125.29724	243.96885	102.41441	3.29602	0.2217969	0.29235050	2.2483650	21	—	—
177230 2003 UQ_{243}	16.7	X	348.75298	2.90515	20.55220	3.38803	0.1647205	0.27386921	2.3484099	21	11 23.4	18.6
177231 2003 UE_{246}	16.7	X	71.62052	353.64342	64.71011	5.22190	0.2597808	0.23513330	2.5997203	21	1 9.4	18.8
177232 2003 UY_{250}	16.8	X	39.61557	46.04274	21.00186	7.00406	0.1197400	0.28738023	2.2742147	21	—	—
177233 2003 UC_{252}	17.3	X	317.01691	48.66982	42.11780	3.33686	0.1648311	0.27845906	2.3225326	21	—	—
177234 2003 UU_{252}	16.3	X	153.92895	108.23896	57.15876	6.59850	0.0882594	0.26175584	2.4203145	21	9 1.6	19.9
177235 2003 UK_{259}	16.8	X	125.90368	285.39861	109.56286	3.87714	0.2658304	0.24126588	2.5554778	21	2 28.3	20.5
177236 2003 UV_{265}	16.8	X	154.77228	28.10195	42.19494	4.91842	0.0484524	0.30650933	2.1785804	21	4 15.0	19.5
177237 2003 UH_{266}	16.9	X	343.14194	223.02846	200.47487	2.25438	0.2091271	0.27861465	2.3216678	21	—	—
177238 2003 UK_{267}	16.5	X	24.66775	183.82692	194.83704	2.46858	0.0790695	0.27918602	2.3184991	21	—	—
177239 2003 UK_{269}	16.7	X	327.77852	65.65055	34.18576	7.80304	0.0585798	0.28170939	2.3046333	21	—	—
177240 2003 UP_{269}	17.2	X	157.73434	3.98490	5.78958	1.79700	0.0454967	0.29901544	2.2148295	21	1 24.5	19.9
177241 2003 UF_{276}	16.4	X	68.80466	16.69847	75.62997	4.25670	0.2000527	0.23815263	2.5777006	21	2 14.0	18.9
177242 2003 UR_{276}	16.6	X	138.95746	113.04825	279.02340	5.38395	0.0743453	0.29911392	2.2143433	21	2 1.5	19.3
177243 2003 UH_{281}	17.7	X	345.71819	170.88165	240.06862	0.63818	0.1791925	0.27686601	2.3314331	21	—	—
177244 2003 VA_1	15.9	X	326.44926	56.53928	11.30643	23.95948	0.2063624	0.27397793	2.3477887	21	12 13.3	18.4
177245 2003 WB	15.7	X	244.31690	136.05422	46.34628	14.10367	0.1296015	0.22335492	2.6903309	21	12 20.5	19.5
177246 2003 WZ_6	16.7	X	119.82993	230.87984	120.75827	6.21625	0.1781919	0.29013143	2.2598149	21	—	—
177247 2003 WY_8	17.2	X	102.64859	7.76898	336.48747	5.04419	0.1634775	0.28727944	2.2747466	21	—	—
177248 2003 WC_{10}	16.5	X	342.30894	256.17955	311.38612	6.42098	0.0913793	0.29938186	2.2130220	21	2 3.5	18.9
177249 2003 WL_{11}	16.8	X	22.29098	46.12003	305.99365	6.46162	0.1356034	0.27496299	2.3421780	21	12 2.3	19.4
177250 2003 WP_{11}	16.7	X	287.18091	139.49864	311.46513	6.99476	0.1637874	0.27179506	2.3603424	21	10 24.6	19.1
177251 2003 WD_{12}	16.7	X	315.90180	163.63709	320.70235	5.24265	0.1638883	0.28029840	2.3123610	21	—	—
177252 2003 WX_{14}	17.1	X	108.98166	13.37514	80.40941	0.37738	0.1288378	0.24590079	2.5232644	21	4 5.1	20.4
177253 2003 WL_{18}	16.6	X	274.07082	72.01841	340.40725	7.06809	0.0951867	0.26536246	2.3983343	21	8 22.4	19.5
177254 2003 WM_{18}	16.3	X	332.89850	166.48756	320.99378	7.07364	0.0393013	0.28564422	2.2834197	21	—	—
177255 2003 WC_{25}	16.6	X	55.20290	9.49710	347.70800	10.25297	0.4859074	0.28351074	2.2948609	21	—	—
177256 2003 WA_{30}	16.8	X	30.34907	56.79896	286.77771	5.14035	0.1574709	0.27562518	2.3384251	21	12 6.5	19.5
177257 2003 WP_{32}	16.9	X	148.34843	290.35999	41.60072	5.26893	0.1567923	0.29198270	2.2502527	21	—	—
177258 2003 WX_{39}	16.9	X	270.41912	232.96402	276.76579	4.27787	0.1731699	0.27826687	2.3236018	21	12 24.6	18.9
177259 2003 WT_{55}	16.8	X	338.84709	85.53426	330.81833	2.03581	0.1549908	0.27568214	2.3381030	21	12 24.1	18.7
177260 2003 WM_{56}	16.6	X	328.69771	340.71916	274.00797	6.34113	0.1255397	0.30492984	2.1860970	21	3 12.5	19.1
177261 2003 WF_{57}	16.7	X	79.79589	106.03604	62.11574	3.22215	0.0560156	0.30973917	2.1634090	21	5 21.3	18.9
177262 2003 WA_{58}	17.0	X	246.71156	240.63007	239.34007	4.14459	0.1796572	0.26901153	2.3765965	21	10 2.6	20.3
177263 2003 WY_{59}	16.6	X	82.57501	177.67619	250.60321	0.85463	0.1750134	0.23778108	2.5803851	21	1 30.2	19.3
177264 2003 WQ_{64}	16.9	X	219.03311	83.07639	68.06366	2.88940	0.1348653	0.26921765	2.3753833	21	10 19.9	20.2
177265 2003 WX_{75}	17.1	X	14.62364	134.06370	288.74363	6.13217	0.0699111	0.28390047	2.2927602	21	—	—
177266 2003 WK_{88}	16.6	X	289.35131	17.88907	285.69196	5.18541	0.2361293	0.31102845	2.1574263	21	3 12.5	19.7
177267 2003 WM_{92}	16.5	X	353.25116	233.87692	149.19180	6.34490	0.1150473	0.27343893	2.3508729	21	11 27.9	18.9
177268 2003 WF_{95}	16.6	X	90.40307	295.14795	61.82529	7.11330	0.1441235	0.28616769	2.2806343	21	—	—
177269 2003 WV_{101}	17.5	X	294.79331	257.72472	192.99224	2.23853	0.1994881	0.27325461	2.3519299	21	11 8.2	19.3
177270 2003 WB_{114}	16.7	X	319.00686	27.97703	21.83261	6.35636	0.0847957	0.27209843	2.3585877	21	11 1.5	19.2
177271 2003 WJ_{117}	16.6	X	329.42935	72.07359	289.05976	6.28232	0.1327035	0.26655450	2.3911787	21	9 2.0	19.0
177272 2003 WO_{122}	16.9	X	36.56189	35.39811	4.86133	4.61459	0.1395345	0.28252857	2.3001763	21	—	—
177273 2003 WW_{126}	16.9	X	356.63884	1.87444	51.34170	4.81222	0.1384728	0.27607089	2.3359075	21	—	—
177274 2003 WM_{129}	17.0	X	233.14107	304.91104	209.14391	4.13439	0.0963512	0.27381480	2.3487210	21	11 15.7	19.8
177275 2003 WH_{132}	16.6	X	56.56073	49.14812	66.65223	5.04327	0.2203315	0.23780157	2.5802369	21	2 27.3	18.8
177276 2003 WB_{135}	16.9	X	29.91738	119.12610	258.88117	2.19678	0.1897948	0.27918397	2.3185105	21	—	—
177277 2003 WN_{135}	16.0	X	28.92399	67.07471	74.43123	14.05184	0.1183846	0.23764892	2.5813416	21	2 4.7	19.0
177278 2003 WR_{138}	16.5	X	5.95485	7.86272	59.30144	2.94719	0.1930141	0.28028247	2.3124486	21	—	—
177279 2003 WD_{142}	16.5	X	106.47505	343.08101	73.27990	6.49355	0.3589087	0.23881279	2.5729479	21	3 21.2	20.3
177280 2003 WY_{142}	16.8	X	75.89021	136.04493	78.88982	2.06977	0.0943661	0.31391543	2.1441785	21	8 3.9	19.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
177281 2003 WE_{149}	17.2	X	21.27363	94.35690	290.09564	2.16082	0.1700664	0.27813731	2.3243234	21	—	—
177282 2003 WQ_{151}	16.7	X	216.60808	219.20205	282.83378	1.60428	0.1468313	0.26280085	2.4138940	21	10 1.2	20.3
177283 2003 WG_{152}	17.4	X	352.88787	333.01964	127.73083	5.68979	0.1047262	0.28366679	2.2940192	21	—	—
177284 2003 WS_{152}	15.7	X	17.16557	352.75842	89.27199	25.15752	0.1819871	0.28644750	2.2791488	21	—	—
177285 2003 WE_{155}	16.5	X	50.35525	207.23189	139.20388	6.23727	0.2310416	0.27971179	2.3155929	21	—	—
177286 2003 WX_{162}	16.3	X	133.28416	267.91137	79.21489	7.77817	0.1964222	0.29232158	2.2485133	21	—	—
177287 2003 WF_{166}	16.6	X	179.64678	19.41385	332.40566	4.95322	0.2849449	0.29993641	2.2102934	21	2 15.7	20.1
177288 2003 XF	15.8	X	246.47369	32.76552	304.17952	8.88852	0.2278287	0.30726445	2.1750096	21	3 15.2	19.5
177289 2003 XA_1	16.8	X	23.86873	20.69584	12.35351	7.47353	0.1116637	0.28051112	2.3111919	21	—	—
177290 2003 XD_1	16.7	X	321.93379	80.44560	341.43140	6.81573	0.0757892	0.27426368	2.3461576	21	11 23.7	19.2
177291 2003 XR_6	16.7	X	327.58722	269.04596	110.05605	3.43896	0.2336374	0.26807605	2.3821222	21	9 27.7	18.0
177292 2003 XA_{12}	15.3	X	135.17480	202.02739	197.12419	12.97305	0.1477183	0.24083998	2.5584896	21	2 24.7	19.2
177293 2003 XM_{12}	16.6	X	222.36555	123.16253	332.57301	11.35587	0.2049667	0.25931785	2.4354606	21	8 4.8	20.4
177294 2003 XO_{17}	16.3	X	46.96353	144.83223	164.23208	2.63547	0.1266996	0.27016089	2.3698511	21	11 7.7	19.1
177295 2003 XX_{17}	16.7	X	218.18254	160.23300	3.47863	7.66195	0.1773656	0.26660903	2.3908526	21	10 26.8	20.2
177296 2003 XK_{19}	16.2	X	263.80413	1.19198	17.12741	12.19435	0.2334813	0.25744936	2.4472303	21	5 28.4	20.0
177297 2003 XD_{28}	17.3	X	220.06720	217.47619	283.69069	2.20706	0.1375058	0.26763865	2.3847169	21	10 5.1	20.6
177298 2003 XP_{30}	16.8	X	133.62792	64.61960	247.57471	4.78071	0.2535334	0.28747899	2.2736938	21	—	—
177299 2003 YB_1	16.2	X	149.62469	12.80651	342.97413	6.08527	0.2427933	0.29368137	2.2415673	21	1 23.8	19.4
177300 2003 YH_4	16.7	X	73.97178	252.41564	104.43617	7.58657	0.1706849	0.28314583	2.2968322	21	—	—
177301 2003 YA_5	17.2	X	77.02640	208.76257	171.98697	5.34569	0.1642551	0.28673946	2.2776015	21	—	—
177302 2003 YB_7	16.2	X	350.48970	0.08349	351.97249	7.33390	0.1417209	0.26512185	2.3997852	21	10 3.6	18.2
177303 2003 YG_7	16.8	X	301.94148	78.72665	288.78169	1.21740	0.2091649	0.26089574	2.4256310	21	7 10.5	19.3
177304 2003 YZ_{12}	16.9	X	237.08803	38.41491	40.11182	2.44086	0.1439216	0.25879205	2.4387583	21	8 2.3	20.4
177305 2003 YW_{14}	17.0	X	299.39695	44.97415	335.13954	4.89804	0.2223427	0.26357556	2.4091618	21	7 24.1	19.6
177306 2003 YE_{15}	16.8	X	307.65321	60.05518	21.78392	6.17941	0.0270411	0.27040615	2.3684179	21	11 30.3	19.7
177307 2003 YC_{18}	15.9	X	146.55034	67.10356	102.28000	7.84405	0.0749676	0.25593324	2.4568855	21	8 27.8	19.4
177308 2003 YR_{19}	15.3	X	230.83031	165.82611	96.09103	15.39284	0.1503500	0.22713878	2.6603689	21	—	—
177309 2003 YX_{19}	17.2	X	347.89652	323.15549	77.25825	4.99186	0.1628978	0.27142422	2.3624918	21	12 17.2	19.2
177310 2003 YD_{22}	16.5	X	161.29902	21.78695	263.99893	6.13313	0.1120301	0.28360799	2.2943363	21	—	—
177311 2003 YS_{29}	16.3	X	176.63405	60.48241	117.82305	3.57727	0.1394324	0.26203051	2.4186228	21	10 10.0	20.0
177312 2003 YC_{32}	16.4	X	245.29439	245.47701	325.55303	6.47648	0.0642400	0.28039987	2.3118031	21	—	—
177313 2003 YT_{32}	17.0	X	309.36316	223.59983	179.92041	5.21802	0.1079634	0.26921199	2.3754166	21	10 5.4	19.2
177314 2003 YE_{33}	16.7	X	16.00147	159.57550	213.13316	9.24205	0.1314252	0.27552654	2.3389831	21	12 21.3	19.5
177315 2003 YO_{33}	16.9	X	305.59348	273.76913	121.77028	4.86247	0.1959437	0.26872334	2.3782954	21	9 4.7	18.9
177316 2003 YY_{34}	16.3	X	354.12977	79.57369	299.53466	5.20976	0.1409021	0.26923898	2.3752578	21	11 22.6	18.5
177317 2003 YW_{35}	15.6	X	104.14803	204.25214	56.12624	6.17859	0.0099960	0.21253840	2.7808514	21	10 23.6	19.3
177318 2003 YR_{36}	15.7	X	106.60956	93.77306	51.38934	3.26937	0.1414148	0.24550455	2.5259787	21	6 12.3	19.2
177319 2003 YS_{41}	17.0	X	242.28872	48.97990	82.60811	2.35326	0.1187645	0.26578049	2.3958189	21	10 24.1	19.9
177320 2003 YG_{42}	17.0	X	0.34639	299.50437	186.15127	1.39918	0.0348203	0.22753323	2.6572933	21	—	—
177321 2003 YT_{43}	16.2	X	171.96703	49.23436	119.56033	5.95498	0.1467342	0.25928147	2.4356884	21	9 23.7	20.0
177322 2003 YX_{43}	16.2	X	75.54859	33.90011	304.67422	7.22206	0.2730161	0.27654942	2.3332121	21	—	—
177323 2003 YO_{48}	16.8	X	337.01793	313.56567	77.71707	3.37375	0.0984202	0.27032483	2.3688929	21	11 7.9	19.1
177324 2003 YR_{48}	14.9	X	147.35432	242.20042	82.97245	15.94082	0.1328074	0.23121810	2.6289854	21	—	—
177325 2003 YJ_{49}	16.9	X	341.16293	347.64268	72.73433	2.99121	0.1810411	0.27480626	2.3430684	21	—	—
177326 2003 YN_{57}	15.6	X	123.52755	276.65574	95.13658	14.01688	0.1883153	0.23597059	2.5935669	21	1 17.7	19.1
177327 2003 YX_{57}	16.5	X	78.11628	269.39191	92.46064	4.79119	0.1979929	0.28304675	2.2973682	21	—	—
177328 2003 YC_{61}	17.1	X	2.96952	253.91013	166.45279	2.74487	0.2081671	0.27865949	2.3214188	21	—	—
177329 2003 YP_{62}	16.2	X	218.10319	93.83862	103.38943	4.71545	0.2087464	0.26989806	2.3713894	21	12 7.9	19.5
177330 2003 YR_{66}	15.8	X	19.64373	349.19000	118.25011	4.57723	0.2044256	0.22579613	2.6709047	21	—	—
177331 2003 YJ_{70}	15.6	X	350.01736	184.32437	284.33980	21.27804	0.0487555	0.22310199	2.6923638	21	—	—
177332 2003 YL_{70}	16.2	X	73.62717	306.90124	161.14504	8.87486	0.2784450	0.23415187	2.6069796	21	3 31.9	18.9
177333 2003 YH_{77}	17.5	X	263.79489	111.05822	27.09367	1.78896	0.1344154	0.27135040	2.3629203	21	11 30.4	20.1
177334 2003 YW_{78}	16.9	X	325.55323	92.62844	304.30094	4.63211	0.1861850	0.26908537	2.3761617	21	10 20.4	18.8
177335 2003 YZ_{87}	16.6	X	338.31811	332.96549	76.43724	5.20851	0.1840400	0.27209792	2.3585906	21	12 13.9	18.2
177336 2003 YS_{99}	16.5	X	349.50908	265.73831	115.77469	5.69230	0.1612774	0.27043284	2.3682621	21	11 23.1	18.6
177337 2003 YG_{100}	16.6	X	198.33007	290.95348	255.32854	6.68913	0.0421282	0.26863629	2.3788091	21	11 19.9	19.8
177338 2003 YN_{106}	16.7	X	210.77954	331.65460	127.58991	6.67922	0.1057637	0.25661458	2.4525347	21	8 3.2	20.3
177339 2003 YK_{114}	15.6	X	156.64149	174.91431	99.92703	5.72471	0.0036808	0.21969620	2.7201177	21	—	—
177340 2003 YO_{120}	16.5	X	201.93880	100.52797	339.64182	7.24705	0.1198757	0.25326967	2.4740811	21	6 28.6	20.3
177341 2003 YF_{123}	16.1	X	29.12446	97.59173	101.65027	8.41409	0.1397618	0.24004252	2.5641530	21	4 30.2	18.8
177342 2003 YX_{127}	15.7	X	327.77401	305.59332	37.01045	7.61895	0.2431204	0.26033998	2.4290818	21	7 21.6	17.7
177343 2003 YA_{128}	16.4	X	4.75801	14.56047	349.17925	7.07010	0.1295232	0.26788617	2.3832477	21	11 15.9	18.9
177344 2003 YN_{128}	16.0	X	166.02700	54.53625	335.05724	10.75933	0.1949611	0.24165739	2.5527170	21	3 19.9	20.2
177345 2003 YO_{128}	16.3	X	215.12483	201.69806	332.77889	8.48650	0.1722590	0.26633265	2.3925064	21	11 5.5	19.9
177346 2003 YG_{130}	15.3	X	310.84250	34.92615	94.88795	10.32781	0.1080711	0.21626514	2.7488120	21	—	—
177347 2003 YP_{133}	16.6	X	351.46456	7.45227	2.33780	6.08009	0.2165285	0.26855852	2.3792683	21	11 11.2	18.5
177348 2003 YP_{137}	16.6	X	151.80427	101.91805	66.69502	3.19263	0.1827647	0.25514368	2.4619515	21	9 3.5	20.5
177349 2003 YH_{138}	16.8	X	138.48539	66.92300	109.38274	9.88744	0.1795563	0.25353437	2.4723587	21	9 2.6	20.9
177350 2003 YA_{145}	15.4	X	334.54850	353.00432	60.86098	12.70763	0.0854825	0.21308490	2.7760946	21	11 21.5	18.8
177351 2003 YV_{149}	16.7	X	7.09159	64.53493	312.89535	5.97167	0.0690671	0.27147164	2.3622167	21	12 3.6	19.4
177352 2003 YL_{157}	16.5	X	289.70055	70.60705	298.74702	5.69095	0.1495660	0.25789072	2.4444373	21	7 4.1	19.5
177353 2003 YJ_{161}	16.5	X	36.53620	332.44007	49.77882	9.71365	0.0248329	0.27734568	2.3287442	21	—	—
177354 2003 YH_{180}	16.5	X	261.69449	343.22003	67.78899	6.70168	0.1038016	0.25882267	2.4385659	21	8 1.9	19.7
177355 2004 AP_1	16.6	X	308.75689	90.63009	341.28677	4.12300	0.1280208	0.26775965	2.3839984	21	11 11.9	19.0
177356 2004 AV_3	16.0	X	158.49196	299.55682	300.55531	5.80891	0.0644832	0.26848717	2.3796899	21	12 10.7	19.4
177357 2004 AM_5	16.2	X	267.78862	107.80112	314.36227	4.49412	0.1890042	0.25999830	2.4312094	21	8 10.4	19.3
177358 2004 AA_{10}	17.3	X	254.66660	119.98454	75.89606	1.80342	0.1704662	0.27517376	2.3409818	21	—	—
177359 2004 BT_3	16.9	X	288.31786	343.67843	91.06148	2.45603	0.1538122	0.26507375	2.4000755	21	10 8.1	19.3
177360 2004 BU_4	16.4	X	252.19990	355.37495	47.18354	3.29541	0.1854010	0.25554695	2.4593608	21	6 25.9	19.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
177361 2004 BW_5	16.8	X	198.29145	9.08984	116.38131	3.53220	0.1454217	0.25700579	2.4500453	21	8 22.8	20.6
177362 2004 BZ_5	17.0	X	122.03525	67.58319	159.02854	1.46213	0.1264866	0.25930254	2.4355565	21	10 15.7	20.5
177363 2004 BS_{11}	16.5	X	237.67815	280.50322	124.19607	12.71482	0.1399660	0.25320340	2.4745127	21	6 18.8	20.3
177364 2004 BF_{15}	16.7	X	14.76514	263.82739	113.55168	3.98255	0.0799750	0.26995266	2.3710696	21	12 17.2	19.4
177365 2004 BM_{15}	17.1	X	289.00334	307.88990	126.00885	2.74243	0.1094505	0.26502683	2.4003587	21	10 14.7	19.5
177366 2004 BM_{19}	16.7	X	241.14224	347.56286	126.92294	5.28772	0.1423279	0.26214881	2.4178951	21	9 26.9	19.9
177367 2004 BD_{20}	16.0	X	117.32937	319.22463	106.62967	14.33733	0.0796509	0.23518092	2.5993694	21	3 9.8	19.7
177368 2004 BH_{24}	16.1	X	50.20305	56.13908	150.38433	2.38568	0.1675850	0.24461880	2.5320726	21	6 20.8	18.7
177369 2004 BQ_{28}	16.5	X	268.31405	202.29082	65.41255	3.67481	0.0973854	0.23163093	2.6258607	21	2 2.3	20.4
177370 2004 BT_{31}	16.5	X	267.48868	56.89316	310.08854	11.83398	0.1951102	0.25361256	2.4718506	21	5 22.7	20.4
177371 2004 BY_{33}	15.9	X	84.50541	259.22866	115.81358	14.24548	0.1458518	0.22423071	2.6833212	21	—	—
177372 2004 BE_{36}	16.7	X	89.51242	209.72482	103.19877	6.48064	0.1256607	0.26923126	2.3753032	21	12 31.1	20.2
177373 2004 BB_{37}	16.5	X	62.12536	292.76416	345.42098	2.35444	0.1659036	0.25766478	2.4458661	21	10 19.2	19.7
177374 2004 BT_{39}	16.4	X	31.46770	356.24628	123.53300	14.82438	0.1987412	0.23086775	2.6316444	21	1 4.4	18.9
177375 2004 BH_{51}	16.4	X	206.68910	179.91569	280.32460	2.37229	0.1549767	0.25474273	2.4645342	21	7 27.3	20.1
177376 2004 BW_{54}	16.5	X	99.32804	205.91578	46.70561	2.85877	0.1457751	0.25910102	2.4368191	21	10 26.8	20.0
177377 2004 BR_{57}	16.0	X	295.64707	66.55260	251.68360	5.10155	0.0518203	0.24679408	2.5171720	21	5 16.5	19.0
177378 2004 BX_{57}	15.8	X	9.48555	80.32371	152.60015	9.91626	0.0832353	0.23994244	2.5648659	21	5 12.1	18.9
177379 2004 BD_{58}	16.4	X	88.59077	84.89714	165.68675	8.01458	0.0240590	0.25885212	2.4383810	21	9 27.8	19.4
177380 2004 BE_{60}	16.7	X	181.51534	41.41714	159.11349	1.53300	0.1315939	0.26542783	2.3979406	21	11 11.5	20.4
177381 2004 BP_{60}	16.6	X	101.72893	89.27825	291.50340	2.75575	0.1114677	0.22824643	2.6517549	21	—	—
177382 2004 BW_{62}	16.6	X	106.80051	197.82747	15.82475	2.58750	0.1490088	0.25465619	2.4650925	21	9 14.6	20.0
177383 2004 BC_{63}	17.0	X	334.14137	280.92802	93.92688	2.45936	0.0872948	0.26337321	2.4103956	21	10 8.4	19.4
177384 2004 BS_{70}	16.4	X	206.44031	8.84836	117.83090	7.27294	0.0468996	0.25773669	2.4454112	21	9 12.4	19.7
177385 2004 BG_{72}	16.2	X	152.39329	300.43141	258.69278	4.94553	0.0597695	0.25989036	2.4318826	21	10 8.2	19.7
177386 2004 BY_{73}	15.8	X	347.50579	195.78620	310.57958	11.12341	0.1258800	0.22540232	2.6740147	21	—	—
177387 2004 BA_{74}	16.8	X	214.83308	131.73159	70.17004	0.20180	0.1604152	0.26796849	2.3827596	21	12 15.5	20.0
177388 2004 BF_{80}	16.7	X	316.06625	240.88791	140.06642	5.95235	0.0211325	0.25941759	2.4348363	21	9 20.6	19.7
177389 2004 BS_{82}	16.2	X	52.25883	31.23604	120.80254	10.19264	0.1334041	0.23501442	2.6005969	21	4 5.9	19.2
177390 2004 BA_{83}	15.6	X	156.08181	227.54607	119.36496	14.51683	0.2045231	0.23037038	2.6354309	21	1 23.8	19.8
177391 2004 BX_{83}	15.8	X	86.30262	156.19328	319.33024	13.34851	0.1360660	0.23451758	2.6042686	21	3 29.1	19.3
177392 2004 BD_{84}	16.9	X	220.55038	2.34645	125.34503	3.68887	0.1282257	0.25997601	2.4313484	21	9 20.9	20.4
177393 2004 BH_{88}	16.7	X	227.12294	198.04009	247.67266	5.52853	0.0960722	0.25603761	2.4562178	21	8 2.7	20.3
177394 2004 BV_{89}	16.0	X	31.95890	167.99211	293.83730	11.15201	0.1493090	0.22581000	2.6707953	21	—	—
177395 2004 BU_{93}	15.6	X	315.38355	260.24054	311.54130	13.28265	0.1511578	0.22561503	2.6723338	21	1 12.2	19.3
177396 2004 BY_{93}	15.3	X	333.33988	135.03043	133.27135	12.20939	0.2463179	0.23038984	2.6352825	21	4 10.9	18.3
177397 2004 BA_{94}	16.1	X	120.32278	319.90663	240.38305	6.87709	0.0752945	0.25397211	2.4695171	21	8 31.9	19.7
177398 2004 BE_{104}	15.9	X	119.45575	254.00698	145.14727	8.89581	0.2221009	0.23654892	2.5893379	21	2 20.8	19.5
177399 2004 BR_{104}	15.5	X	36.70706	302.06214	116.08618	14.26894	0.1194903	0.22126582	2.7072384	21	—	—
177400 2004 BB_{107}	16.5	X	165.91706	186.53800	15.88106	1.96404	0.1117158	0.26246329	2.4159633	21	10 28.8	20.1
177401 2004 BK_{107}	16.5	X	214.25683	71.89126	32.24596	6.03616	0.1506188	0.25592381	2.4569459	21	8 12.5	20.3
177402 2004 BV_{107}	16.0	X	114.89163	103.96755	325.70842	27.96084	0.1002134	0.23562278	2.5961186	21	2 28.8	19.7
177403 2004 BA_{110}	15.3	X	70.90543	86.91877	350.40450	21.70745	0.0570315	0.22778188	2.6553591	21	1 20.5	19.0
177404 2004 BC_{110}	15.9	X	262.21451	3.87320	57.96655	11.08007	0.1504882	0.25650600	2.4532268	21	8 13.4	19.4
177405 2004 BK_{119}	16.0	X	87.59166	268.64281	342.84316	6.40421	0.1679567	0.25582368	2.4575869	21	10 12.3	19.7
177406 2004 BU_{145}	16.5	X	330.71175	311.65709	140.40088	6.93649	0.0637535	0.27448452	2.3448990	21	—	—
177407 2004 BT_{146}	17.0	X	272.03296	9.34727	33.35647	1.87616	0.1878483	0.25765573	2.4459234	21	7 20.5	20.1
177408 2004 BC_{147}	16.4	X	145.52315	303.19398	337.74068	3.58104	0.0814922	0.27032840	2.3688720	21	—	—
177409 2004 BS_{149}	16.4	X	130.48164	137.73299	143.12695	2.70174	0.1638866	0.27018727	2.3696968	21	12 31.9	20.3
177410 2004 BQ_{152}	16.4	X	264.55988	328.82191	69.61369	6.32309	0.0986184	0.25541340	2.4602181	21	7 18.7	19.6
177411 2004 BE_{162}	16.3	X	332.51376	173.28771	94.88552	3.40607	0.1636499	0.24094068	2.5577767	21	4 17.5	19.0
177412 2004 CK	16.2	X	39.01806	133.39425	337.57649	12.07231	0.2093538	0.22903471	2.6456670	21	1 12.1	18.7
177413 2004 CF_2	16.3	X	39.45187	234.92153	324.07521	12.92172	0.1049121	0.24025878	2.5626141	21	5 6.5	19.5
177414 2004 CL_2	15.5	X	92.12448	298.27661	126.31940	22.51883	0.1549544	0.23052026	2.6342884	21	2 9.3	18.6
177415 Queloz	16.1	X	317.05580	280.64590	317.90156	9.31961	0.1327151	0.23391752	2.6087205	21	2 15.9	19.3
177416 2004 CB_5	17.2	X	240.83418	26.95413	126.65134	1.92545	0.1350233	0.26638800	2.3921750	21	11 18.1	20.2
177417 2004 CD_5	15.6	X	26.65716	336.25328	123.62002	15.83728	0.0447059	0.22486390	2.6782815	21	—	—
177418 2004 CT_{10}	16.9	X	208.29829	354.86295	166.66029	3.41215	0.1333797	0.26203938	2.4185682	21	10 20.7	20.4
177419 2004 CG_{12}	16.4	X	222.94856	154.24836	32.56665	1.57911	0.1355342	0.26676771	2.3899045	21	12 8.5	19.6
177420 2004 CX_{12}	16.1	X	45.51582	46.44379	151.12528	10.25548	0.1152672	0.24038393	2.5617245	21	5 25.2	19.2
177421 2004 CC_{13}	15.5	X	252.55458	9.09224	322.33856	14.40269	0.1219438	0.23909490	2.5709236	21	3 25.4	19.7
177422 2004 CC_{18}	15.8	X	136.74143	25.72612	331.85740	15.05238	0.1276919	0.22681252	2.6629195	21	1 11.8	19.7
177423 2004 CL_{27}	16.0	X	128.01521	170.46532	111.99117	3.41041	0.2056740	0.26446067	2.4037833	21	12 31.1	20.1
177424 2004 CC_{28}	16.8	X	118.13896	157.83320	79.69665	2.26221	0.1415825	0.25946271	2.4345540	21	10 26.9	20.4
177425 2004 CA_{37}	16.2	X	88.13462	210.95383	284.17152	10.23327	0.2047604	0.23924431	2.5698531	21	5 13.5	19.7
177426 2004 CZ_{49}	15.8	X	68.59484	319.54169	330.05876	13.23949	0.0246234	0.25889544	2.4381090	21	10 15.8	19.2
177427 2004 CX_{50}	15.6	X	330.23419	348.74356	129.27053	10.57949	0.0858201	0.21780282	2.7358590	21	—	—
177428 2004 CY_{54}	16.4	X	13.99922	187.69709	47.92410	6.91084	0.1621531	0.23961282	2.5672176	21	5 20.8	18.7
177429 2004 CQ_{63}	15.9	X	216.23822	239.57496	32.78026	13.04665	0.2015596	0.27607394	2.3358903	21	—	—
177430 2004 CG_{64}	16.1	X	51.00253	342.11141	71.67321	7.15029	0.1126610	0.22282621	2.6945848	21	—	—
177431 2004 CH_{68}	16.9	X	312.43169	254.54896	156.44253	7.86642	0.2212913	0.26675643	2.3899718	21	10 13.6	18.6
177432 2004 CO_{71}	16.0	X	16.83694	342.41769	239.19573	10.49344	0.1260873	0.23910232	2.5708704	21	5 4.2	18.7
177433 2004 CN_{72}	16.0	X	41.19186	117.98407	99.71578	7.30587	0.1187915	0.24286414	2.5442539	21	6 13.2	18.8
177434 2004 CP_{78}	16.1	X	119.32856	86.01272	331.20463	13.34153	0.1580088	0.23377645	2.6097699	21	3 4.6	19.8
177435 2004 CL_{79}	16.4	X	130.29601	269.31219	337.02228	1.53841	0.1680262	0.26011925	2.4304557	21	11 18.0	20.3
177436 2004 CA_{80}	16.9	X	252.51218	78.35882	68.76885	2.24693	0.1337027	0.26585535	2.3953691	21	11 25.0	19.6
177437 2004 CQ_{92}	15.5	X	227.43692	190.70495	161.13782	21.96887	0.0188295	0.23680820	2.5874476	21	4 11.6	19.3
177438 2004 CK_{94}	16.4	X	164.91114	158.05206	45.07676	1.85355	0.1354559	0.25871201	2.4392613	21	10 28.1	20.1
177439 2004 CJ_{95}	15.8	X	93.09581	293.65897	160.24394	9.02996	0.1520286	0.23331859	2.6131830	21	3 21.2	19.0
177440 2004 CL_{95}	15.8	X	85.18469	304.26983	161.34523	11.95980	0.1414697	0.23344337	2.6122517	21	3 24.3	19.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
177441 2004 CD_{96}	15.8	X	147.58877	103.53363	322.33545	13.02667	0.0984069	0.23840737	2.5758640	21	4 4.7	19.8
177442 2004 CW_{98}	16.6	X	151.65535	241.93355	342.48768	4.01327	0.1333777	0.25907326	2.4369932	21	11 9.4	20.4
177443 2004 CA_{105}	15.2	X	275.75617	14.20310	341.52365	14.43379	0.1050053	0.24361486	2.5390243	21	5 29.9	18.9
177444 2004 CD_{105}	15.4	X	230.25935	89.08523	152.43928	7.17400	0.2270721	0.21426833	2.7658634	21	—	—
177445 2004 CZ_{106}	15.9	X	110.92109	136.95119	318.02728	14.58671	0.0585752	0.23432098	2.6057251	21	3 23.2	19.7
177446 2004 CW_{107}	16.4	X	8.65711	156.54969	156.51302	3.81132	0.0955916	0.25276256	2.4773891	21	9 5.3	18.8
177447 2004 CZ_{115}	16.9	X	184.86679	233.53892	347.34836	2.28782	0.0975287	0.26721929	2.3872112	21	12 13.1	20.1
177448 2004 DA_{8}	16.5	X	138.59071	49.09021	336.66636	3.31973	0.0922536	0.22976424	2.6400638	21	2 10.0	20.1
177449 2004 DY_{10}	15.7	X	177.38677	124.09477	135.61822	6.47217	0.0462031	0.21297313	2.7770658	21	—	—
177450 2004 DH_{11}	16.5	X	119.00507	251.67673	345.87683	1.60012	0.1067147	0.25674858	2.4516813	21	10 24.0	19.9
177451 2004 DQ_{12}	16.3	X	129.23857	351.83469	138.81933	3.60094	0.0721181	0.24266134	2.5456713	21	6 12.2	19.8
177452 2004 DC_{16}	15.4	X	234.34916	283.11240	340.76717	6.96168	0.3298313	0.21700011	2.7426018	21	—	—
177453 2004 DS_{17}	15.9	X	269.80256	90.22006	213.99031	7.09278	0.0675904	0.23638696	2.5905205	21	3 21.6	19.5
177454 2004 DC_{19}	16.3	X	245.82156	8.41459	52.01270	7.24104	0.1316667	0.25551425	2.4595706	21	7 21.1	19.8
177455 2004 DM_{19}	16.4	X	126.49579	124.51974	331.20025	7.26102	0.0011010	0.23828949	2.5767134	21	4 9.0	19.9
177456 2004 DE_{21}	15.3	X	338.75531	162.82328	337.82559	24.34947	0.0483638	0.22009002	2.7168718	21	—	—
177457 2004 DH_{36}	17.2	X	60.94418	302.52452	226.78056	3.11641	0.1405057	0.23776086	2.5805314	21	5 11.6	20.0
177458 2004 DO_{37}	16.3	X	32.06623	242.07050	355.56328	12.83137	0.1148351	0.24112689	2.5564597	21	6 28.3	19.4
177459 2004 DS_{37}	16.4	X	130.10687	353.73548	119.65783	4.15009	0.1333254	0.24015578	2.5633467	21	5 28.5	20.1
177460 2004 DL_{41}	16.1	X	347.11852	98.89328	144.56850	12.62024	0.2296478	0.23289782	2.6163294	21	4 2.6	18.8
177461 2004 DV_{41}	16.6	X	79.61383	243.15171	311.53060	4.22055	0.1485250	0.24340007	2.5405179	21	7 17.2	19.7
177462 2004 DP_{42}	16.0	X	276.68577	44.42329	144.61711	9.21988	0.1356246	0.21484098	2.7609463	21	—	—
177463 2004 DZ_{42}	16.3	X	156.38423	251.36059	144.29192	11.73139	0.2973275	0.23900508	2.5715677	21	4 1.3	20.9
177464 2004 DF_{48}	16.8	X	216.27188	28.80034	160.23630	2.73717	0.1405645	0.26429830	2.4047678	21	12 3.0	20.0
177465 2004 DQ_{50}	16.3	X	122.66366	145.93962	126.51186	3.10010	0.1007249	0.26564808	2.3966150	21	12 12.7	19.7
177466 2004 DQ_{51}	16.7	X	6.15952	45.49070	131.47981	2.86785	0.1330655	0.22925611	2.6439634	21	2 11.1	19.5
177467 2004 DG_{57}	15.8	X	200.14565	5.14307	323.41541	13.76740	0.1128827	0.23218253	2.6217002	21	2 6.6	19.7
177468 2004 DN_{60}	16.8	X	91.76767	301.03325	148.13279	4.55131	0.1530744	0.23363027	2.6108583	21	3 12.6	19.9
177469 2004 DR_{70}	16.2	X	260.62936	105.11283	158.61927	3.54490	0.0501773	0.22592990	2.6698503	21	1 23.5	20.0
177470 2004 DV_{71}	15.9	X	11.12455	141.07176	128.48934	15.79810	0.0956561	0.24339834	2.5405299	21	7 5.5	18.7
177471 2004 DU_{72}	16.1	X	133.38199	301.23120	313.00279	5.22370	0.1025702	0.26508983	2.3999784	21	11 29.8	19.7
177472 2004 DX_{75}	16.6	X	310.93742	64.54480	333.09344	1.79663	0.2122526	0.26170623	2.4206203	21	9 14.1	18.3
177473 2004 DF_{76}	16.3	X	60.81907	233.23058	202.20408	1.55605	0.0613911	0.22401558	2.6850388	21	—	—
177474 2004 EJ_{4}	16.1	X	26.44340	85.78452	119.33183	12.27665	0.1441081	0.23529646	2.5985184	21	5 6.4	19.0
177475 2004 EZ_{4}	16.7	X	106.56595	341.02236	135.50199	1.46162	0.1376385	0.23766714	2.5812097	21	5 5.1	20.2
177476 2004 ET_{8}	16.8	X	4.32690	349.79556	169.50918	2.43305	0.1392877	0.22559600	2.6724840	21	1 14.4	19.9
177477 2004 EA_{10}	15.8	X	116.80682	25.96040	338.49127	9.12449	0.0884479	0.22066038	2.7121882	21	—	—
177478 2004 EC_{11}	16.2	X	357.76886	104.58339	155.66389	8.93851	0.2106533	0.23655683	2.5892803	21	5 24.4	18.6
177479 2004 EA_{14}	16.2	X	332.94607	92.43740	147.57918	6.56907	0.1929521	0.23074427	2.6325832	21	3 5.8	19.3
177480 2004 EX_{14}	16.5	X	60.11089	86.48981	61.73207	6.80809	0.1090529	0.23341734	2.6124459	21	4 9.0	19.5
177481 2004 EH_{16}	16.3	X	348.29896	332.94455	186.87838	2.92235	0.0208793	0.22455138	2.6807660	21	1 5.8	20.0
177482 2004 EV_{16}	15.6	X	272.08524	214.53203	24.23038	13.86514	0.1496238	0.22090548	2.7101816	21	—	—
177483 2004 EJ_{18}	15.5	X	276.96690	169.08363	93.31657	15.66993	0.1622515	0.22329270	2.6908306	21	1 31.6	19.7
177484 2004 EK_{19}	16.0	X	292.49804	330.32274	359.19762	10.41937	0.0736610	0.24188817	2.5510930	21	5 21.6	19.5
177485 2004 ET_{19}	15.7	X	70.01742	20.39252	349.17202	5.46282	0.0328330	0.21366064	2.7711053	21	—	—
177486 2004 EZ_{29}	16.2	X	104.77507	8.42778	3.92084	5.57094	0.0978206	0.21919502	2.7242623	21	—	—
177487 2004 EX_{31}	16.4	X	103.30240	112.33379	354.88280	11.18327	0.2243060	0.23495301	2.6010501	21	4 26.4	20.1
177488 2004 EG_{32}	16.2	X	319.69437	310.05980	280.85129	2.77444	0.0313135	0.22937146	2.6430769	21	2 25.1	19.6
177489 2004 EY_{32}	15.3	X	313.20465	268.00581	312.06251	12.55271	0.1750966	0.22431915	2.6826159	21	1 16.6	18.9
177490 2004 EW_{34}	16.8	X	115.51095	114.67229	34.38280	6.38532	0.1385754	0.24213722	2.5493434	21	6 28.3	20.5
177491 2004 ED_{37}	15.4	X	329.71371	318.75674	182.67492	11.59291	0.1485444	0.21714827	2.7413541	21	—	—
177492 2004 EB_{38}	16.0	X	311.20599	273.54122	331.12944	10.21405	0.1205757	0.22747249	2.6577664	21	2 20.0	19.5
177493 2004 EB_{40}	15.2	X	75.76351	118.72357	108.77553	7.44831	0.0736860	0.18975476	2.9992150	21	8 12.9	19.4
177494 2004 EE_{41}	16.4	X	87.55702	312.98566	164.02520	2.87672	0.0941993	0.23364172	2.6107730	21	4 3.7	19.7
177495 2004 EG_{41}	16.6	X	28.68208	203.41499	27.25152	10.66424	0.2043139	0.23926251	2.5697228	21	6 18.9	19.1
177496 2004 EN_{47}	16.1	X	300.55827	239.63996	10.16736	12.04017	0.1467734	0.22744265	2.6579988	21	2 14.6	20.0
177497 2004 EV_{47}	16.5	X	25.65712	176.59372	333.10311	1.67833	0.0473937	0.22771072	2.6559123	21	2 10.7	19.8
177498 2004 EC_{48}	16.5	X	34.65845	205.98352	310.61005	1.99815	0.0303805	0.23015845	2.6370484	21	3 3.4	19.9
177499 2004 EF_{50}	17.2	X	141.81427	267.81739	185.65781	4.13526	0.1853943	0.24135333	2.5548605	21	5 19.7	21.1
177500 2004 EV_{52}	15.1	X	65.15718	4.66794	5.77833	17.61898	0.1505121	0.21255226	2.7807305	21	—	—
177501 2004 EW_{52}	15.7	X	147.09020	5.88070	12.03339	10.42843	0.0802807	0.22650217	2.6653514	21	2 12.9	19.6
177502 2004 EZ_{52}	15.9	X	10.52530	166.19849	43.67850	6.84719	0.0593349	0.23447157	2.6046093	21	4 10.4	18.9
177503 2004 EE_{53}	15.6	X	85.93920	6.05101	22.39195	9.67989	0.1323519	0.21909964	2.7250530	21	—	—
177504 2004 EN_{56}	16.4	X	47.41822	309.12631	190.96092	3.67453	0.2221361	0.23005327	2.6378521	21	3 14.2	18.7
177505 2004 EP_{56}	16.1	X	50.60681	178.90573	12.00691	7.50026	0.1297328	0.23533145	2.5982608	21	5 21.6	19.1
177506 2004 ED_{58}	16.0	X	348.72673	208.20607	90.17482	2.47943	0.0819290	0.24460109	2.5321949	21	7 8.3	18.6
177507 2004 EO_{58}	16.4	X	81.31702	293.39508	161.34655	12.59523	0.1411046	0.23008546	2.6376061	21	3 2.3	19.4
177508 2004 EZ_{58}	15.6	X	257.43414	231.44648	307.49122	11.53472	0.0446128	0.21132642	2.7914736	21	—	—
177509 2004 EM_{59}	16.4	X	275.65903	264.02621	286.77837	7.91961	0.1207719	0.21519320	2.7579329	21	—	—
177510 2004 EP_{64}	15.8	X	351.91662	353.58268	124.26574	14.83883	0.1396476	0.22062856	2.7124489	21	—	—
177511 2004 EW_{64}	16.1	X	22.22330	149.14613	76.24100	11.66556	0.0748602	0.23944840	2.5683927	21	5 20.9	19.0
177512 2004 EA_{65}	16.0	X	74.09961	331.66472	119.74448	16.34963	0.1557492	0.22960451	2.6412881	21	2 18.9	19.0
177513 2004 EH_{65}	15.9	X	42.35696	121.78141	106.61266	14.16408	0.1315363	0.24116243	2.5562085	21	7 4.0	18.7
177514 2004 EG_{67}	16.5	X	37.42513	308.53220	146.89684	4.22075	0.0963706	0.22308783	2.6924778	21	—	—
177515 2004 ER_{67}	16.4	X	102.55565	71.57138	354.59415	11.04524	0.1096138	0.22884634	2.6471186	21	2 21.3	19.8
177516 2004 EB_{71}	17.1	X	47.75032	263.52890	272.57899	0.99077	0.1191663	0.23572546	2.5953646	21	4 25.2	20.0
177517 2004 ED_{74}	16.2	X	73.64603	2.91252	169.77302	13.73747	0.1905510	0.23793444	2.5792762	21	6 15.3	19.7
177518 2004 EK_{77}	15.6	X	247.78772	200.68144	18.69722	3.59895	0.0341141	0.21722401	2.7407168	21	—	—
177519 2004 EW_{79}	15.7	X	35.90579	38.39811	141.67981	17.62543	0.1387086	0.23289801	2.6163281	21	4 18.9	18.8
177520 2004 ET_{81}	15.9	X	292.96741	68.78598	160.37952	11.34881	0.1085982	0.22376856	2.6870144	21	1 11.1	19.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
177521 2004 EK_{83}	15.7	X	240.09403	42.90438	122.82046	7.01447	0.0057607	0.20592484	2.8400777	21	12 10.6	19.7
177522 2004 EP_{86}	16.0	X	51.86640	66.56408	20.81230	11.69303	0.0485332	0.22319892	2.6915843	21	—	—
177523 2004 EO_{94}	15.6	X	28.19584	81.24361	34.16351	14.64099	0.0700961	0.22025733	2.7154958	21	1 2.3	19.2
177524 2004 EA_{100}	16.9	X	176.56519	318.64465	306.82418	1.13803	0.0418742	0.21268784	2.7795486	21	—	—
177525 2004 FS_{11}	15.6	X	337.33778	227.94527	243.17765	6.77456	0.1837756	0.21629323	2.7485740	21	—	—
177526 2004 FC_{16}	15.7	X	297.48306	133.21284	85.57261	8.59181	0.1648575	0.22083668	2.7107445	21	—	—
177527 2004 FK_{19}	15.7	X	354.63237	203.65204	300.86919	6.68723	0.1312377	0.22309144	2.6924487	21	—	—
177528 2004 FV_{19}	14.6	X	177.86773	299.44976	341.62807	19.71049	0.2411339	0.21198242	2.7857116	21	—	—
177529 2004 FK_{20}	15.5	X	355.36126	349.02274	353.21681	7.33403	0.2521700	0.25161447	2.4849194	21	10 6.2	17.1
177530 2004 FP_{21}	16.3	X	157.60278	336.40193	294.99783	2.70625	0.0618151	0.20974859	2.8054553	21	—	—
177531 2004 FR_{21}	16.6	X	158.76232	235.02026	229.24020	2.57109	0.2246886	0.24503756	2.5291870	21	6 19.2	20.8
177532 2004 FX_{23}	16.3	X	158.04176	348.14500	347.03963	4.06436	0.0387693	0.22022518	2.7157601	21	—	—
177533 2004 FX_{24}	15.8	X	40.74952	242.15063	292.81211	13.81855	0.0500674	0.23322709	2.6138664	21	3 29.4	19.4
177534 2004 FA_{28}	16.1	X	169.36702	357.29983	357.26839	5.56956	0.0452693	0.22468423	2.6797091	21	2 3.7	19.9
177535 2004 FV_{29}	15.9	X	253.30354	123.93331	117.62777	8.35807	0.1546001	0.21493443	2.7601460	21	—	—
177536 2004 FT_{34}	16.0	X	77.85120	329.28213	161.27890	7.87500	0.1467448	0.23433684	2.6056075	21	4 17.8	19.1
177537 2004 FO_{37}	15.9	X	86.66588	220.18606	168.09974	13.31747	0.0388470	0.21804811	2.7338069	21	—	—
177538 2004 FT_{48}	15.6	X	339.66638	227.11456	6.41742	14.54023	0.0543374	0.23112142	2.6297184	21	3 26.3	19.0
177539 2004 FZ_{53}	16.0	X	97.49865	46.27836	339.66754	5.29909	0.0722905	0.22098170	2.7095583	21	—	—
177540 2004 FU_{55}	15.8	X	315.76310	61.47250	111.74719	5.66972	0.0510655	0.21891370	2.7265958	21	—	—
177541 2004 FA_{56}	15.7	X	142.57204	242.08491	163.66793	9.44382	0.0937826	0.22895344	2.6462930	21	3 12.3	19.4
177542 2004 FC_{59}	15.9	X	193.35139	312.63098	45.43232	3.73456	0.1066192	0.23023725	2.6364467	21	3 8.9	19.8
177543 2004 FM_{63}	15.9	X	252.95537	63.61211	159.06285	5.21321	0.1163416	0.21501439	2.7594617	21	—	—
177544 2004 FS_{63}	16.6	X	15.24755	103.48503	143.14594	4.26533	0.2308614	0.23605225	2.5929687	21	6 15.4	18.5
177545 2004 FZ_{63}	15.5	X	292.86759	159.82228	34.28844	9.88194	0.0758224	0.21744198	2.7388849	21	—	—
177546 2004 FB_{66}	15.4	X	42.65878	187.23745	47.39743	13.34559	0.2161759	0.23644984	2.5900612	21	8 1.7	18.5
177547 2004 FJ_{67}	15.6	X	336.00597	349.52902	111.35870	5.14451	0.0574082	0.21185693	2.7868116	21	—	—
177548 2004 FW_{67}	16.2	X	34.68987	74.61252	134.40652	5.30200	0.1397444	0.23503431	2.6004502	21	5 24.1	19.0
177549 2004 FB_{68}	15.9	X	14.95950	345.72131	181.99638	14.49975	0.1152419	0.22616565	2.6679947	21	2 12.6	19.2
177550 2004 FZ_{68}	17.0	X	318.88936	312.74801	220.65657	3.62215	0.0686061	0.22083606	2.7107495	21	—	—
177551 2004 FO_{81}	15.7	X	283.91368	118.89594	101.92016	6.23405	0.0846012	0.21995134	2.7180137	21	—	—
177552 2004 FR_{83}	15.9	X	315.65455	159.26269	81.99492	9.98671	0.0807083	0.23249183	2.6193744	21	3 3.7	19.5
177553 2004 FR_{84}	16.6	X	305.91099	262.10033	319.49316	3.25858	0.0765619	0.22460933	2.6803048	21	1 22.4	20.2
177554 2004 FB_{86}	16.0	X	352.82159	127.48500	135.73349	15.32301	0.0785523	0.24055246	2.5605279	21	5 28.9	19.3
177555 2004 FB_{91}	15.7	X	166.45900	143.56116	153.05093	12.36520	0.0508461	0.21367479	2.7709830	21	—	—
177556 2004 FW_{91}	16.1	X	55.32696	127.57877	39.45094	7.03377	0.1119537	0.23333648	2.6130494	21	4 25.4	19.1
177557 2004 FV_{96}	16.1	X	344.40917	59.65170	142.49338	12.73537	0.0764585	0.22846648	2.6500519	21	2 17.3	19.2
177558 2004 FQ_{98}	15.9	X	134.40518	246.46109	57.95765	3.58232	0.0937152	0.21129848	2.7917196	21	—	—
177559 2004 FR_{98}	16.0	X	65.30338	250.55206	157.22227	5.56980	0.1197941	0.21858095	2.7293622	21	—	—
177560 2004 FZ_{101}	15.9	X	24.41961	266.70812	290.52691	9.55525	0.1280532	0.23203682	2.6227976	21	4 8.6	18.9
177561 2004 FN_{105}	15.4	X	56.56692	263.10934	227.27395	21.00451	0.1255184	0.22886476	2.6469766	21	2 28.2	18.9
177562 2004 FS_{105}	15.9	X	344.20848	78.71850	130.69513	13.87568	0.1074562	0.22988987	2.6391019	21	2 24.0	19.1
177563 2004 FD_{107}	16.6	X	271.17774	208.93803	349.76909	3.63145	0.1454301	0.21568307	2.7537553	21	—	—
177564 2004 FN_{109}	15.8	X	287.70597	337.87863	193.68899	4.61958	0.0546268	0.21390303	2.7690115	21	—	—
177565 2004 FZ_{115}	15.8	X	349.60473	319.41051	139.37952	10.57068	0.0963235	0.21408217	2.7674666	21	—	—
177566 2004 FM_{116}	16.2	X	338.20444	152.66986	123.63212	9.95029	0.1069885	0.23615329	2.5922291	21	5 19.6	19.3
177567 2004 FC_{119}	16.7	X	69.94803	84.68980	20.40803	3.41533	0.1283688	0.23024313	2.6364018	21	2 25.7	19.6
177568 2004 FS_{119}	15.8	X	206.49216	3.45950	16.44761	1.73036	0.0648421	0.17795928	3.1303216	21	4 21.6	20.5
177569 2004 FT_{120}	15.8	X	330.42268	89.46777	103.32045	9.42008	0.1005562	0.22325208	2.6911570	21	1 14.1	19.3
177570 2004 FX_{120}	16.0	X	292.19256	111.47217	147.35093	12.09263	0.0754606	0.22604853	2.6689161	21	2 21.4	19.7
177571 2004 FY_{125}	16.1	X	67.65463	107.02225	8.54045	12.93354	0.1651364	0.22992149	2.6388599	21	3 14.8	19.0
177572 2004 FU_{126}	16.0	X	349.83447	268.23751	176.23943	4.47537	0.0543445	0.21076003	2.7964725	21	—	—
177573 2004 FW_{131}	16.5	X	190.97922	182.91268	151.74668	2.14843	0.0924011	0.22607599	2.6687000	21	2 3.9	20.6
177574 2004 FM_{134}	15.3	X	68.86804	285.38764	269.80721	5.78824	0.2233319	0.18170233	3.0871831	21	7 13.3	19.5
177575 2004 FD_{138}	16.9	X	52.39641	310.74239	165.79017	2.64564	0.0867644	0.22630495	2.6668997	21	2 7.7	19.9
177576 2004 FQ_{138}	15.9	X	286.92032	41.58768	200.95242	9.54623	0.0587438	0.22361288	2.6882615	21	1 25.3	19.9
177577 2004 FW_{145}	16.5	X	29.20352	320.32163	295.04188	1.83307	0.0414989	0.24450609	2.5328507	21	7 10.9	19.5
177578 2004 FL_{152}	16.4	X	19.29985	155.70163	209.33736	1.39762	0.0794429	0.20375258	2.8602279	21	11 22.8	19.9
177579 2004 FW_{158}	16.2	X	349.48373	345.61438	189.51960	3.58631	0.0502933	0.22869168	2.6483119	21	1 22.0	19.6
177580 2004 GK_{2}	15.9	X	84.95875	180.69734	358.82916	14.09624	0.1194066	0.23864718	2.5741381	21	6 29.9	19.6
177581 2004 GS_{7}	16.5	X	69.87252	107.47678	23.44806	2.39185	0.0646818	0.22969072	2.6406272	21	3 23.9	19.8
177582 2004 GC_{8}	16.2	X	345.90653	132.32681	12.80022	5.14932	0.0565756	0.21854460	2.7296649	21	—	—
177583 2004 GT_{9}	15.7	X	132.80843	320.41922	129.34966	15.13629	0.0717727	0.23321526	2.6139548	21	4 29.5	19.7
177584 2004 GJ_{11}	15.6	X	236.97543	6.98936	281.80526	8.04320	0.2003471	0.21922098	2.7240473	21	1 22.5	20.2
177585 2004 GN_{13}	15.4	X	337.98301	256.31572	348.20352	11.99079	0.2220285	0.22972850	2.6403376	21	3 14.0	18.3
177586 2004 GH_{14}	16.0	X	86.78538	4.70021	169.17544	9.57226	0.1102364	0.23748894	2.5825008	21	6 21.8	19.6
177587 2004 GH_{16}	15.3	X	204.45619	109.86295	154.79359	16.17607	0.1161940	0.21208026	2.7848548	21	—	—
177588 2004 GW_{16}	15.6	X	11.89928	33.26896	142.09687	13.56935	0.0971307	0.22663580	2.6643036	21	2 22.8	18.7
177589 2004 GT_{21}	15.0	X	38.50331	193.12702	111.87122	16.11911	0.2181398	0.18683143	3.0304196	21	10 29.1	19.2
177590 2004 GJ_{26}	15.7	X	292.41930	113.67627	91.56576	4.50282	0.1327308	0.21740614	2.7391859	21	—	—
177591 2004 GV_{37}	16.1	X	277.49746	190.94936	358.64291	7.73436	0.1503907	0.21309466	2.7760098	21	—	—
177592 2004 GR_{38}	15.9	X	320.18714	215.56061	342.74731	11.72260	0.0966265	0.22246230	2.6975226	21	1 10.8	19.7
177593 2004 GR_{39}	15.9	X	272.47941	239.26558	354.18123	10.30821	0.1447244	0.21762398	2.7373577	21	—	—
177594 2004 GK_{41}	15.7	X	240.51499	304.51198	293.99675	7.60527	0.2277978	0.21285858	2.7780621	21	—	—
177595 2004 GD_{44}	16.0	X	102.94664	60.68919	23.99011	4.52644	0.0528456	0.22722780	2.6596740	21	3 8.6	19.4
177596 2004 GS_{47}	15.7	X	265.43877	55.12605	41.46213	2.75513	0.1566924	0.19929851	2.9026857	21	9 24.1	19.5
177597 2004 GB_{48}	16.5	X	331.51187	20.80515	139.75101	1.27767	0.0447118	0.21789026	2.7351270	21	—	—
177598 2004 GJ_{48}	17.0	X	27.78056	299.35602	227.15810	1.60711	0.0536637	0.22802164	2.6534974	21	3 7.1	20.1
177599 2004 GJ_{57}	16.5	X	357.54268	233.91962	215.75832	2.68634	0.0616087	0.21342123	2.7731773	21	—	—
177600 2004 GJ_{59}	16.2	X	254.60783	140.24700	101.72975	3.59871	0.1434042	0.21527769	2.7572112	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
177601 2004 GN_{73}	16.8	X	124.50994	46.42297	142.04729	2.90408	0.0625922	0.25047829	2.4924282	21	8 23.3	20.3
177602 2004 GW_{74}	15.5	X	280.82034	87.17981	151.92199	15.84694	0.0362473	0.21996269	2.7179202	21	1 18.9	19.4
177603 2004 GD_{75}	15.8	X	175.53709	322.94504	331.69254	5.46217	0.1110268	0.21228007	2.7831070	21	—	—
177604 2004 GY_{75}	15.2	X	178.07140	281.30243	313.34489	16.73658	0.1580820	0.20386266	2.8591982	21	12 8.9	20.1
177605 2004 GJ_{78}	16.1	X	299.16490	177.67707	183.60671	5.14178	0.0606572	0.24436075	2.5338550	21	7 19.9	19.3
177606 2004 GY_{81}	16.3	X	285.70000	106.88703	141.57310	7.33910	0.0932676	0.22230717	2.6987774	21	1 29.3	20.1
177607 2004 HD_{1}	15.1	X	131.39064	112.72454	22.18265	28.84875	0.1450934	0.23879614	2.5730675	21	6 26.1	19.6
177608 2004 HC_{5}	16.2	X	242.15378	81.72719	135.06004	2.60535	0.0914177	0.21177594	2.7875220	21	—	—
177609 2004 HY_{6}	16.1	X	51.36105	26.04737	160.32861	12.71507	0.2096173	0.23324961	2.6136981	21	6 2.6	19.1
177610 2004 HE_{10}	15.5	X	237.63862	68.79818	185.38758	6.71519	0.1419276	0.21283165	2.7782964	21	—	—
177611 2004 HO_{15}	16.1	X	155.98502	291.00966	21.67524	3.91276	0.0891797	0.21128563	2.7918328	21	—	—
177612 2004 HK_{24}	15.5	X	296.48839	111.26117	140.62123	12.56676	0.1274716	0.22134195	2.7066176	21	2 11.3	19.3
177613 2004 HK_{31}	15.4	X	149.64976	67.63161	151.10433	11.10809	0.0728269	0.19465566	2.9486600	21	10 28.4	20.0
177614 2004 HK_{33}	17.4	X	198.70556	221.44219	104.78807	5.43879	0.5205242	0.37976442	1.8885415	21	1 31.7	21.1
177615 2004 HB_{44}	15.7	X	307.65391	142.92957	6.90796	7.34386	0.1314691	0.21278208	2.7787279	21	—	—
177616 2004 HX_{47}	15.5	X	306.99045	212.34666	322.26462	8.20249	0.0872013	0.21559307	2.7545216	21	—	—
177617 2004 HR_{48}	15.5	X	293.39012	167.15645	358.76615	14.54394	0.0843575	0.21171570	2.7880507	21	—	—
177618 2004 HA_{54}	15.7	X	194.98679	132.02585	147.51394	20.87298	0.1223908	0.21048731	2.7988874	21	—	—
177619 2004 HB_{56}	15.9	X	256.03395	227.91777	330.60195	12.25914	0.1156375	0.21164052	2.7887110	21	—	—
177620 2004 HC_{58}	16.7	X	316.25510	260.47243	205.54475	1.43414	0.0461219	0.20490302	2.8495119	21	12 29.7	20.4
177621 2004 HN_{60}	16.0	X	112.09530	143.89129	21.45017	6.72440	0.2510867	0.24106146	2.5569223	21	7 30.1	20.1
177622 2004 HF_{61}	15.8	X	18.49147	146.73758	20.94634	12.19425	0.1813287	0.22664277	2.6642489	21	2 24.5	18.5
177623 2004 HU_{61}	15.8	X	116.42830	173.33922	359.98657	5.94421	0.1430042	0.24212776	2.5494098	21	8 2.9	19.6
177624 2004 HB_{73}	15.8	X	288.62883	273.26274	53.04982	5.74120	0.1681991	0.17404494	3.1770821	21	5 6.1	20.1
177625 2004 JD	16.0	X	10.72880	241.35932	217.43743	3.07960	0.1645626	0.21455078	2.7634354	21	—	—
177626 2004 JH_{5}	15.9	X	270.48120	94.31610	225.29819	4.22948	0.1550767	0.17125467	3.2114988	21	4 8.0	20.7
177627 2004 JO_{11}	15.8	X	217.34627	34.97032	152.76163	8.71232	0.1947824	0.20183181	2.8783458	21	11 19.1	20.4
177628 2004 JA_{12}	15.8	X	50.67807	41.42257	240.42957	1.30751	0.2533170	0.18518572	3.0483469	21	10 13.4	19.7
177629 2004 JM_{25}	15.0	X	342.15380	175.77626	107.94158	11.79197	0.1858931	0.17561542	3.1581127	21	6 1.4	18.6
177630 2004 JZ_{42}	15.1	X	12.26919	221.67310	79.20290	7.12279	0.1524529	0.18260343	3.0770184	21	8 26.4	18.7
177631 2004 JM_{44}	16.3	X	54.51495	32.07743	178.92399	4.31566	0.1388297	0.23680990	2.5874352	21	6 30.0	19.3
177632 2004 JS_{48}	15.8	X	19.40377	190.29537	72.53483	4.96639	0.0982510	0.18003042	3.1062670	21	7 10.2	19.6
177633 2004 JW_{54}	15.9	X	5.07753	54.06580	52.28503	5.02208	0.0317225	0.21482230	2.7611064	21	—	—
177634 2004 KL_{4}	16.0	X	111.41856	195.67964	57.13769	0.74055	0.1381375	0.19298283	2.9656753	21	10 30.6	20.7
177635 2004 LQ_{3}	15.1	X	97.78805	165.43217	129.31220	13.39127	0.2167361	0.19317370	2.9637215	21	12 13.5	20.1
177636 2004 LB_{9}	15.3	X	245.68447	131.70055	92.75649	14.78584	0.1170002	0.20940220	2.8085483	21	—	—
177637 2004 LY_{13}	15.4	X	6.17117	134.60521	100.99545	14.24060	0.1239182	0.22884764	2.6471086	21	5 12.5	18.5
177638 2004 LB_{22}	15.0	X	310.43397	197.74497	135.62829	10.58439	0.1014169	0.17738971	3.1370187	21	6 23.9	19.3
177639 2004 LW_{28}	15.4	X	52.51444	138.50350	142.92351	11.93047	0.1146456	0.18053442	3.1004831	21	9 27.9	19.6
177640 2004 NX_{10}	13.6	X	57.49076	346.21732	323.14975	6.56806	0.2350868	0.12464277	3.9690934	21	11 10.6	19.3
177641 2004 NE_{20}	15.6	X	65.81695	54.18622	212.78003	4.64379	0.1379355	0.18073285	3.0982134	21	9 25.9	19.9
177642 2004 NU_{27}	14.6	X	359.15871	153.21335	134.13050	20.65750	0.2216835	0.17249889	3.1960373	21	7 9.9	18.0
177643 2004 OO_{4}	15.5	X	71.34377	168.60410	105.05603	1.91536	0.2321803	0.18394596	3.0620284	21	10 25.3	20.0
177644 2004 PN_{88}	14.8	X	41.72948	294.45068	337.81527	24.00785	0.2828755	0.17415491	3.1757446	21	9 15.9	18.9
177645 2004 PQ_{89}	15.2	X	47.94372	124.77933	171.37197	9.88480	0.1305164	0.18058447	3.0999102	21	10 11.0	19.4
177646 2004 RK_{80}	15.1	X	66.71265	88.69966	161.23299	19.42974	0.1414125	0.17542790	3.1603628	21	9 7.0	19.4
177647 2004 RF_{110}	16.6	X	33.30491	157.80180	298.62632	17.68399	0.0842173	0.37147639	1.9165283	21	—	—
177648 2004 RR_{179}	14.9	X	69.78961	94.04325	200.69779	10.03163	0.0661322	0.17896698	3.1185601	21	10 26.5	19.2
177649 2004 TP_{8}	16.5	X	331.36488	293.69182	157.58300	23.97945	0.1155389	0.35477850	1.9762013	21	—	—
177650 2004 VN_{75}	16.9	X	76.39649	182.86093	255.50019	18.00903	0.0775920	0.37111697	1.9177655	21	—	—
177651 2004 XM_{14}	17.5	X	213.22400	186.36666	89.42466	42.40142	0.6988909	0.79480263	1.1542411	21	—	—
177652 2004 XW_{130}	16.9	X	262.93742	197.28681	355.09144	18.86658	0.0461322	0.35589348	1.9720717	21	—	—
177653 2004 XM_{155}	17.0	X	196.41786	10.16130	274.81536	7.79306	0.1768888	0.30161319	2.2020939	21	—	—
177654 2004 YR_{33}	16.4	X	110.37140	10.42841	332.39518	18.07784	0.0651271	0.35635549	1.9703668	21	—	—
177655 2005 AF_{32}	12.3	X	359.21050	148.55007	128.56817	20.93218	0.1398640	0.08308582	5.2013744	21	6 28.3	18.6
177656 2005 CU_{6}	16.6	X	263.79923	180.42886	138.20857	24.76862	0.0390401	0.37287482	1.9117335	21	3 27.8	19.1
177657 2005 CN_{21}	16.8	X	183.54261	105.92622	8.37671	2.64414	0.1325055	0.26655273	2.3911893	21	7 24.7	20.5
177658 2005 CJ_{74}	15.5	X	274.90012	168.34460	83.75943	6.19124	0.2136889	0.23314058	2.6145130	21	1 9.7	19.7
177659 Paolacel	16.6	X	181.73771	331.39840	232.36065	5.49921	0.1154853	0.26992725	2.3712184	21	11 17.1	20.0
177660 2005 EJ_{2}	16.1	X	325.42730	349.43800	165.56168	23.15685	0.0597055	0.35506852	1.9751251	21	—	—
177661 2005 EK_{5}	17.2	X	220.15338	39.10947	74.17860	3.16138	0.1552139	0.27045499	2.3681328	21	8 30.3	20.6
177662 2005 EM_{5}	17.2	X	237.74406	60.83210	93.55773	3.11823	0.1366540	0.27923057	2.3182525	21	11 17.2	20.0
177663 2005 EC_{6}	16.7	X	85.10595	171.35552	31.23740	2.61776	0.1526823	0.25942338	2.4348001	21	8 6.5	19.8
177664 2005 EH_{11}	17.0	X	50.61456	349.05447	88.60663	4.48170	0.1307055	0.30005839	2.2096943	21	—	—
177665 2005 EV_{34}	16.5	X	305.33293	235.03380	332.44433	6.54567	0.0591301	0.29671554	2.2262599	21	—	—
177666 2005 EW_{34}	17.3	X	229.67948	283.76694	321.71252	2.84388	0.1248043	0.29071013	2.2568149	21	—	—
177667 2005 EV_{37}	17.0	X	243.19513	349.92981	284.46919	4.51649	0.0571090	0.29917851	2.2140247	21	1 2.3	19.8
177668 2005 EL_{42}	16.7	X	316.80212	19.63529	139.86137	24.14452	0.0463660	0.35816575	1.9637220	21	—	—
177669 2005 EK_{46}	17.0	X	195.27798	12.10108	190.88136	2.72322	0.1061046	0.28013335	2.3132692	21	12 3.8	20.0
177670 2005 EM_{50}	17.2	X	271.44459	119.59421	348.34455	1.88619	0.1509195	0.27872055	2.3210797	21	10 28.8	19.6
177671 2005 EX_{51}	17.1	X	329.74257	312.36275	184.54515	7.25228	0.1069583	0.29003337	2.2603242	21	—	—
177672 2005 EQ_{58}	17.3	X	150.53517	10.22548	193.08240	1.98577	0.1570579	0.27056866	2.3674695	21	10 15.6	20.9
177673 2005 EV_{68}	17.2	X	316.43638	313.97526	246.38829	2.97118	0.0945455	0.29780760	2.2208141	21	—	—
177674 2005 EF_{88}	16.4	X	282.68438	349.97461	209.18929	5.44787	0.2034398	0.29072700	2.2567276	21	—	—
177675 2005 ED_{98}	16.7	X	161.93733	261.77631	248.00758	5.68404	0.0735938	0.26697582	2.3886623	21	8 14.4	20.1
177676 2005 EG_{130}	16.7	X	36.33752	49.07902	304.70557	5.83856	0.1387939	0.28449459	2.2895671	21	12 28.2	19.5
177677 2005 EX_{138}	16.7	X	38.56314	323.61241	21.30064	10.26167	0.1422595	0.27198151	2.3592636	21	12 15.5	19.8
177678 2005 EK_{205}	16.6	X	193.99668	348.79702	349.70960	7.43324	0.1625909	0.29806562	2.2195322	21	2 6.6	19.9
177679 2005 EM_{205}	17.3	X	276.13312	252.57720	357.05731	4.76350	0.0741537	0.29763341	2.2216805	21	1 8.5	20.2
177680 2005 ES_{216}	17.6	X	193.47834	256.00795	24.18899	1.90323	0.1370035	0.28614538	2.2807529	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
177681 2005 ES_{223}	17.4	X	3.08465	25.55703	154.92319	3.83879	0.0591409	0.30167781	2.2017794	21	1 31.6	19.7
177682 2005 ED_{232}	17.2	X	159.97721	322.97718	62.52499	1.54144	0.0873052	0.30622481	2.1799296	21	2 22.4	19.9
177683 2005 EE_{234}	16.9	X	258.03814	12.66399	100.44163	6.42311	0.0614339	0.27589666	2.3368908	21	11 2.1	19.7
177684 2005 EJ_{253}	17.1	X	87.94538	206.38690	251.63801	3.22402	0.1210244	0.30886708	2.1674794	21	2 24.4	19.2
177685 2005 EE_{264}	17.0	X	6.85536	24.48205	343.70241	4.55128	0.2417060	0.27459605	2.3442640	21	12 18.7	19.3
177686 2005 EU_{265}	17.1	X	195.66990	271.21825	0.41375	2.74176	0.1568137	0.28623033	2.2803015	21	—	—
177687 2005 EX_{267}	17.3	X	208.01411	329.30088	291.07517	2.01215	0.1547962	0.28675953	2.2774952	21	—	—
177688 2005 EY_{279}	16.9	X	85.39597	163.84507	112.66506	7.61208	0.1147456	0.26969273	2.3725929	21	11 12.1	20.3
177689 2005 EX_{323}	17.1	X	227.04983	17.57526	220.86531	1.70292	0.1677443	0.28288693	2.2982334	21	—	—
177690 2005 FX_{2}	17.1	X	177.57716	98.25512	75.95587	3.38717	0.1557742	0.27073249	2.3665143	21	10 5.7	20.7
177691 2005 GV_{3}	17.0	X	35.52593	60.97365	44.52991	7.89305	0.1072511	0.29506773	2.2345405	21	—	—
177692 2005 GO_{6}	17.7	X	238.07979	166.33285	66.63236	3.54492	0.1136817	0.28680530	2.2772529	21	—	—
177693 2005 GW_{6}	17.5	X	267.85006	96.72123	128.79784	3.23362	0.1223832	0.29072491	2.2567384	21	—	—
177694 2005 GH_{11}	16.7	X	254.57015	49.60097	147.63427	6.74584	0.0532586	0.28587531	2.2821891	21	—	—
177695 2005 GM_{20}	16.7	X	282.38804	189.07461	32.78469	4.65108	0.0668691	0.29217229	2.2492792	21	—	—
177696 2005 GA_{23}	16.8	X	263.81535	163.32282	76.34809	7.05675	0.0923628	0.29349089	2.2425371	21	—	—
177697 2005 GF_{23}	16.7	X	173.44103	126.38712	162.37344	4.96435	0.1356795	0.28419729	2.2911635	21	—	—
177698 2005 GW_{26}	16.8	X	300.84230	42.17848	173.56007	5.10092	0.1032157	0.29501831	2.2347901	21	—	—
177699 2005 GJ_{29}	17.3	X	303.99083	216.81083	357.66968	5.94059	0.0980639	0.29569602	2.2313741	21	—	—
177700 2005 GL_{51}	16.6	X	115.23735	122.60006	199.15093	6.23916	0.1628267	0.27926659	2.3180532	21	—	—
177701 2005 GM_{66}	16.6	X	145.01582	134.00387	191.46004	2.54078	0.0579996	0.22634667	2.6665720	21	—	—
177702 2005 GS_{70}	16.4	X	297.28721	79.92070	282.27245	1.32017	0.2256272	0.25797372	2.4439130	21	6 21.8	19.2
177703 2005 GU_{71}	17.4	X	293.33835	215.14974	101.51601	1.54121	0.1790607	0.31022847	2.1611336	21	4 15.8	20.1
177704 2005 GU_{73}	16.8	X	203.86686	72.07819	146.68471	8.09260	0.1281059	0.27838557	2.3229413	21	12 30.7	20.1
177705 2005 GK_{79}	17.2	X	250.30262	121.08360	171.83736	2.27806	0.0887764	0.29849246	2.2174158	21	2 2.3	20.3
177706 2005 GE_{90}	16.9	X	187.82342	305.66584	344.95023	5.13887	0.1891792	0.28606331	2.2811891	21	—	—
177707 2005 GV_{93}	16.5	X	136.12744	327.71883	357.99056	5.98086	0.2300076	0.28178390	2.3042270	21	—	—
177708 2005 GQ_{103}	17.6	X	23.39034	245.58851	207.27244	1.64149	0.1675817	0.29251397	2.2475273	21	—	—
177709 2005 GD_{123}	17.0	X	234.62897	322.37961	109.63109	2.32647	0.1619085	0.26024704	2.4296601	21	7 18.9	20.5
177710 2005 GM_{125}	17.0	X	206.10027	208.74818	48.07281	3.38391	0.1314803	0.28366641	2.2940213	21	—	—
177711 2005 GW_{127}	17.2	X	14.76668	79.10736	119.09618	4.07465	0.0701824	0.30541104	2.1838001	21	3 19.6	19.2
177712 2005 GJ_{139}	17.3	X	262.20749	348.73709	223.69313	4.23765	0.1099874	0.28769442	2.2725586	21	—	—
177713 2005 GZ_{140}	16.4	X	93.16992	250.74082	21.46224	10.31510	0.2504572	0.26432426	2.4046103	21	11 20.5	20.5
177714 2005 GZ_{145}	17.3	X	187.92823	259.74706	358.40065	3.10708	0.0765617	0.28234030	2.3011988	21	—	—
177715 2005 GN_{154}	17.1	X	10.32122	61.95632	126.83830	3.00211	0.0690263	0.30370019	2.1919939	21	2 24.5	19.3
177716 2005 GH_{160}	17.4	X	216.79128	177.14884	100.49761	3.08339	0.2285766	0.28681263	2.2772141	21	—	—
177717 2005 GB_{161}	16.0	X	346.29761	110.55965	104.44676	5.93418	0.0558681	0.24237766	2.5476572	21	3 11.7	19.1
177718 2005 GS_{161}	15.8	X	60.41383	195.77154	149.16270	10.93976	0.1614869	0.27541642	2.3396066	21	—	—
177719 2005 GD_{167}	16.7	X	104.87541	218.85429	51.21396	4.50556	0.1396671	0.26741849	2.3860256	21	11 23.4	20.1
177720 2005 GA_{175}	17.2	X	183.88330	143.87743	77.50167	2.85199	0.1207402	0.27574091	2.3377707	21	12 12.3	20.2
177721 2005 GM_{202}	17.2	X	320.94425	132.69860	54.66092	5.65694	0.1249127	0.29349729	2.2425045	21	—	—
177722 Pelletier	17.3	X	235.29276	352.25404	225.26864	3.48599	0.1433855	0.28346886	2.2950869	21	—	—
177723 2005 GY_{214}	17.3	X	49.45475	232.01516	111.89541	1.12007	0.0778047	0.27165955	2.3611272	21	12 19.7	20.3
177724 2005 GZ_{223}	15.3	X	291.14528	328.26863	337.97145	13.55768	0.1952978	0.24349862	2.5398323	21	3 28.6	19.0
177725 2005 HM_{1}	16.2	X	270.13157	345.10174	35.66138	8.48685	0.1989119	0.25578453	2.4578377	21	6 14.5	19.8
177726 2005 HX_{4}	16.7	X	279.61205	176.51455	116.13814	4.75743	0.1133793	0.30073575	2.2063751	21	3 7.5	19.5
177727 2005 JP	16.7	X	173.91085	352.83868	128.12228	2.05297	0.1444446	0.25842128	2.4410905	21	7 22.6	20.5
177728 2005 JE_{3}	16.9	X	167.34401	195.66800	78.58602	3.64579	0.2259545	0.27663577	2.3327265	21	—	—
177729 2005 JL_{4}	15.9	X	270.99900	119.33119	180.21065	4.27692	0.2054403	0.23630020	2.5911546	21	3 3.3	20.0
177730 2005 JM_{4}	16.0	X	50.32705	152.37799	153.86698	12.62313	0.2670068	0.25924689	2.4359050	21	11 28.7	19.7
177731 2005 JK_{17}	17.1	X	223.63981	83.49699	137.87903	6.78429	0.1316457	0.28240736	2.3008345	21	—	—
177732 2005 JZ_{20}	16.0	X	61.06340	281.96906	12.06834	1.85571	0.0533120	0.20358241	2.8618215	21	10 15.3	19.8
177733 2005 JO_{21}	17.2	X	119.61103	242.37016	357.40528	1.88738	0.1636967	0.26594435	2.3948347	21	10 31.7	21.0
177734 2005 JV_{22}	16.8	X	205.79024	338.07213	200.32925	3.66074	0.1110091	0.27200847	2.3591077	21	11 12.1	19.9
177735 2005 JC_{25}	16.7	X	180.96156	345.99714	215.53918	6.40451	0.0520720	0.27095406	2.3652240	21	11 18.9	19.9
177736 2005 JH_{25}	16.9	X	151.96070	202.83042	59.16076	4.06700	0.1362837	0.27435730	2.3456238	21	12 29.9	20.5
177737 2005 JK_{27}	16.5	X	334.59363	141.47968	91.79467	4.67819	0.1043377	0.30145786	2.2028502	21	2 28.9	18.8
177738 2005 JT_{31}	16.9	X	205.85160	357.68209	244.85752	5.26255	0.1441227	0.28110855	2.3079161	21	—	—
177739 2005 JD_{38}	15.8	X	83.23785	348.92262	126.53238	13.40648	0.1027428	0.24055498	2.5605100	21	3 31.8	19.2
177740 2005 JE_{38}	16.5	X	307.54019	302.49101	291.73609	7.83144	0.1342826	0.29826890	2.2185237	21	1 17.1	19.1
177741 2005 JM_{42}	17.1	X	192.70875	94.08974	163.88064	3.30326	0.1221814	0.28090341	2.3090396	21	—	—
177742 2005 JR_{42}	16.3	X	84.09298	70.67267	84.40250	6.86366	0.1069905	0.30878922	2.1678437	21	5 18.3	18.4
177743 2005 JA_{43}	16.3	X	274.48773	202.31032	94.19236	6.27148	0.2204741	0.23718238	2.5847256	21	3 4.8	20.4
177744 2005 JG_{44}	16.6	X	88.81803	65.08705	235.01817	6.70991	0.0893632	0.26977091	2.3721345	21	12 11.2	20.0
177745 2005 JM_{44}	16.8	X	54.42604	206.19633	79.02858	2.89318	0.2133483	0.25926661	2.4357815	21	10 27.9	19.9
177746 2005 JU_{54}	16.4	X	241.97174	131.07127	52.39092	7.70255	0.0555060	0.27746327	2.3280861	21	—	—
177747 2005 JR_{55}	16.6	X	285.04671	256.69720	44.12328	4.69603	0.2170323	0.23931668	2.5693350	21	3 19.8	20.3
177748 2005 JQ_{64}	15.7	X	335.48542	224.86004	250.48302	14.22736	0.0602057	0.22551334	2.6731370	21	—	—
177749 2005 JU_{69}	16.9	X	229.56984	297.08224	48.55291	3.07265	0.1520396	0.23901836	2.5714724	21	3 26.5	21.0
177750 2005 JH_{73}	16.5	X	213.18205	359.68789	207.37993	6.01804	0.0701284	0.27704055	2.3304538	21	—	—
177751 2005 JB_{75}	16.3	X	220.64596	292.79095	344.97944	7.05527	0.1033409	0.28964368	2.2623511	21	—	—
177752 2005 JR_{75}	16.9	X	256.21473	133.43105	45.61577	4.88366	0.0771590	0.28137368	2.3064660	21	—	—
177753 2005 JC_{84}	17.8	X	200.72820	162.95842	51.68160	3.24022	0.1605800	0.27662293	2.3327987	21	12 17.7	21.1
177754 2005 JE_{86}	17.2	X	224.72782	10.15299	97.34070	2.62130	0.1286460	0.26344301	2.4099698	21	8 29.5	20.6
177755 2005 JT_{90}	16.8	X	267.51623	270.51159	280.61747	4.98878	0.1030300	0.28441880	2.2899738	21	—	—
177756 2005 JV_{90}	16.5	X	104.36630	127.54879	168.61746	8.83276	0.2436385	0.26801957	2.3824569	21	12 29.9	20.7
177757 2005 JE_{92}	16.4	X	296.13246	357.98529	305.13314	5.42262	0.1815419	0.24282428	2.5445323	21	4 3.9	20.0
177758 2005 JK_{93}	16.7	X	164.78553	327.76287	322.37964	3.06768	0.2139992	0.27860315	2.3217317	21	—	—
177759 2005 JL_{107}	16.5	X	137.91476	191.34187	72.70546	7.08045	0.0665850	0.27260477	2.3556662	21	12 18.9	19.8
177760 2005 JP_{109}	16.0	X	225.03927	192.22564	97.24774	12.96889	0.1668607	0.22803525	2.6533919	21	1 14.2	20.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
177761 2005 JU_{120}	15.9	X	147.88967	327.31761	74.07863	14.96714	0.1032228	0.23574017	2.5952567	21	3 21.1	20.0
177762 2005 JF_{124}	17.3	X	135.28503	302.52272	200.97682	1.94056	0.1487788	0.25683882	2.4511070	21	7 13.1	21.0
177763 2005 JG_{125}	15.9	X	290.30304	53.46183	284.66797	3.63907	0.2859188	0.24444042	2.5333043	21	4 29.8	19.5
177764 2005 JB_{127}	16.5	X	21.79002	16.22655	274.76610	1.90932	0.1750139	0.25508411	2.4623348	21	9 5.2	18.7
177765 2005 JM_{127}	16.9	X	27.80265	115.87666	154.21795	3.65818	0.1769400	0.25318207	2.4746517	21	8 16.5	19.1
177766 2005 JB_{128}	16.1	X	270.32711	144.66090	180.48425	7.95305	0.1989489	0.24044389	2.5612986	21	4 5.1	20.0
177767 2005 JR_{128}	16.9	X	332.42885	296.21455	187.63495	5.79655	0.1172213	0.28449890	2.2895440	21	—	—
177768 2005 JX_{137}	17.0	X	52.77305	21.49127	155.71862	6.45602	0.0650474	0.30548434	2.1834508	21	4 24.2	19.2
177769 2005 JZ_{145}	16.5	X	240.96455	121.15069	195.67656	1.00902	0.0901743	0.23657590	2.5891411	21	3 4.2	20.3
177770 2005 JE_{163}	16.9	X	270.55177	179.13326	173.50761	1.78163	0.1154458	0.24680309	2.5171107	21	5 20.9	20.3
177771 2005 JA_{165}	16.1	X	244.31013	69.43206	242.98388	2.58105	0.2467978	0.23310774	2.6147585	21	2 21.1	20.7
177772 2005 JJ_{168}	16.2	X	266.80290	255.14122	64.54634	4.49329	0.1452746	0.23971009	2.5665230	21	4 1.5	20.0
177773 2005 JT_{176}	16.4	X	312.87747	161.32833	140.96869	13.07127	0.1806326	0.24427710	2.5344334	21	5 4.5	19.7
177774 2005 KD_{1}	16.6	X	188.52557	336.02469	124.01663	7.25210	0.1065930	0.25484374	2.4638829	21	7 10.2	20.2
177775 2005 KB_{2}	16.4	X	148.67612	342.37227	197.98672	6.01651	0.0713263	0.26066972	2.4270329	21	9 9.9	19.9
177776 2005 KJ_{5}	17.3	X	234.32106	297.06870	275.23448	0.92236	0.1569172	0.28119388	2.3074491	21	—	—
177777 2005 KM_{6}	17.6	X	295.36080	37.96431	195.41508	2.48300	0.1047020	0.29402893	2.2398005	21	1 5.9	20.7
177778 2005 KX_{6}	16.8	X	125.83767	82.78189	193.68370	1.92286	0.1986144	0.26983971	2.3717313	21	12 22.9	20.6
177779 2005 KP_{8}	16.9	X	0.11239	169.55664	7.80994	0.88664	0.1107193	0.29729858	2.2233482	21	1 16.9	18.8
177780 2005 KK_{10}	16.6	X	41.08202	79.31825	224.19245	1.49431	0.1736332	0.25876245	2.4389443	21	10 27.4	19.4
177781 2005 KJ_{13}	16.6	X	70.29007	123.16675	133.89334	3.32591	0.1523392	0.25757267	2.4464492	21	10 1.5	19.9
177782 2005 LG_{1}	17.0	X	155.94871	179.63376	117.39165	3.53031	0.2237008	0.27696531	2.3308758	21	—	—
177783 2005 LF_{2}	17.3	X	189.50557	73.52500	162.59923	3.06347	0.0868986	0.27624915	2.3349025	21	—	—
177784 2005 LY_{9}	16.9	X	176.42876	106.15978	148.50437	5.49489	0.2096155	0.27542317	2.3395683	21	—	—
177785 2005 LH_{12}	17.0	X	259.91333	11.86700	194.72875	5.06794	0.1052643	0.28453107	2.2893714	21	—	—
177786 2005 LQ_{15}	17.4	X	331.27960	75.21022	156.90337	4.35656	0.1378387	0.29885041	2.2156448	21	2 14.2	19.9
177787 2005 LB_{18}	17.1	X	104.29116	86.42891	188.65083	3.90529	0.1450665	0.26644724	2.3918204	21	11 30.2	20.8
177788 2005 LB_{19}	16.8	X	325.76952	260.58141	130.54315	8.21660	0.0375954	0.26244558	2.4160720	21	10 21.2	19.8
177789 2005 LH_{19}	15.6	X	191.02950	231.42434	107.17888	12.56411	0.1295712	0.22834667	2.6509789	21	2 12.5	19.8
177790 2005 LD_{21}	16.7	X	137.41268	150.14231	149.54015	3.01308	0.2165953	0.27359920	2.3499547	21	—	—
177791 2005 LJ_{22}	16.8	X	297.82268	336.23059	186.94155	5.17259	0.0928844	0.28457750	2.2891224	21	—	—
177792 2005 LW_{22}	15.9	X	43.91986	44.06733	285.13346	1.24178	0.0764520	0.19803089	2.9150595	21	11 8.9	19.8
177793 2005 LH_{24}	17.2	X	258.29223	277.26156	230.41060	7.09181	0.1675806	0.27566358	2.3382079	21	12 1.3	19.8
177794 2005 LS_{25}	16.1	X	135.94441	283.81646	83.57347	7.68528	0.1039946	0.22626163	2.6672401	21	1 17.5	19.8
177795 2005 LH_{27}	17.2	X	284.09160	20.84059	139.87802	6.62199	0.1426407	0.28282073	2.2985920	21	—	—
177796 2005 LO_{35}	16.6	X	191.71109	47.87944	226.99901	2.84148	0.1234011	0.21546017	2.7556542	21	—	—
177797 2005 LJ_{39}	15.5	X	345.67243	204.11002	157.14854	11.25861	0.0880256	0.19238923	2.9717724	21	9 28.8	19.1
177798 2005 LR_{45}	16.1	X	242.94799	90.53916	245.35201	1.12342	0.2264465	0.23474036	2.6026206	21	3 21.3	20.4
177799 2005 LW_{45}	15.8	X	166.30477	224.36509	137.71159	13.07343	0.1857989	0.22720063	2.6598860	21	2 19.8	20.0
177800 2005 LT_{49}	16.9	X	242.12444	355.28442	222.17070	5.07041	0.1124127	0.28163423	2.3050433	21	—	—
177801 2005 LA_{50}	16.0	X	178.75444	153.28259	195.91847	10.20810	0.1280976	0.22807151	2.6531106	21	2 8.4	20.2
177802 2005 LP_{50}	16.4	X	96.47646	219.88571	80.61759	4.53129	0.1780332	0.26717643	2.3874665	21	12 25.7	20.0
177803 2005 LX_{50}	15.5	X	49.75101	249.18313	114.71887	11.70827	0.1661897	0.20166656	2.8799180	21	—	—
177804 2005 LW_{52}	16.5	X	105.86785	122.73913	147.91070	5.58013	0.1220975	0.26585855	2.3953499	21	11 25.4	20.0
177805 2005 LC_{53}	16.3	X	54.09781	97.82766	180.22002	6.02518	0.1323238	0.25776378	2.4452398	21	10 4.7	19.1
177806 2005 MU	15.6	X	21.48288	3.68181	312.56014	4.37618	0.1369705	0.18785877	3.0193611	21	9 25.7	19.2
177807 2005 MF_{1}	15.6	X	273.18241	259.92540	148.67837	10.08600	0.0919340	0.18142506	3.0903277	21	8 10.1	19.9
177808 2005 MF_{2}	15.6	X	91.97804	280.91802	99.26777	10.09125	0.1836184	0.21866655	2.7286499	21	—	—
177809 2005 MO_{2}	15.9	X	182.50987	293.83865	106.43574	15.81598	0.1216181	0.23954154	2.5677269	21	4 25.2	20.2
177810 2005 MW_{8}	16.1	X	155.10602	173.41145	145.57472	6.48238	0.1523532	0.21415472	2.7668415	21	—	—
177811 2005 MN_{12}	15.3	X	270.63657	6.90132	325.84315	3.89184	0.1344678	0.17402582	3.1773149	21	4 25.6	20.1
177812 2005 MU_{16}	16.4	X	273.01675	19.66755	251.81409	2.87965	0.1305816	0.22777117	2.6554424	21	2 6.9	20.3
177813 2005 MC_{17}	16.5	X	217.61044	130.19049	162.74757	2.73152	0.1300062	0.22070864	2.7117927	21	1 12.4	20.8
177814 2005 ME_{17}	15.3	X	284.30046	171.21270	136.72948	2.31972	0.1520829	0.17329412	3.1862523	21	4 11.2	19.9
177815 2005 MJ_{21}	16.8	X	348.19448	108.83147	130.95817	12.63380	0.1828452	0.23650754	2.5896400	21	4 7.0	19.7
177816 2005 MK_{24}	15.9	X	267.56790	80.62825	302.60882	1.99848	0.0795439	0.18127930	3.0919840	21	7 3.6	20.3
177817 2005 MB_{31}	16.6	X	269.31053	167.79561	127.75631	2.63366	0.0997991	0.23618138	2.5920235	21	3 8.9	20.2
177818 2005 MA_{35}	16.4	X	89.16097	144.60448	202.36587	2.31453	0.1513556	0.21262361	2.7801084	21	—	—
177819 2005 MW_{43}	16.6	X	15.23723	54.61178	191.69776	3.03092	0.1201869	0.24216076	2.5491782	21	6 8.8	19.1
177820 2005 MG_{53}	15.9	X	198.42950	154.29412	144.15527	10.69661	0.1252695	0.21756893	2.7378194	21	1 1.8	20.3
177821 2005 NL_{3}	14.9	X	189.62404	318.73781	136.13544	17.90393	0.1848608	0.17723447	3.1388502	21	7 3.9	20.3
177822 2005 NQ_{12}	15.7	X	15.18083	193.09385	122.81098	11.76851	0.1070098	0.19025240	2.9939827	21	9 18.6	19.5
177823 2005 NB_{13}	15.4	X	285.67763	236.32510	120.73652	12.78975	0.0860590	0.18037157	3.1023491	21	6 22.8	19.8
177824 2005 NB_{15}	17.1	X	208.10401	91.54625	118.16122	2.05759	0.1372095	0.27094919	2.3652523	21	12 21.4	20.4
177825 2005 NM_{16}	16.4	X	331.37515	149.45827	49.36301	2.84692	0.0149126	0.22480234	2.6787705	21	2 4.6	20.0
177826 2005 NM_{18}	15.9	X	214.56040	130.24984	278.72881	3.92236	0.1879217	0.17467787	3.1694029	21	5 30.1	21.1
177827 2005 NY_{18}	16.1	X	71.60725	247.36033	137.51252	6.78861	0.0711499	0.20968777	2.8059977	21	—	—
177828 2005 NS_{36}	16.5	X	105.25548	12.80129	281.60713	0.95419	0.0830345	0.20270301	2.8700926	21	12 9.8	20.8
177829 2005 NC_{43}	15.7	X	326.42816	226.34472	147.55721	11.19230	0.1232452	0.18867614	3.0106347	21	9 11.6	19.3
177830 2005 NL_{44}	14.8	X	18.21866	173.85400	122.75421	25.12451	0.1725832	0.18611665	3.0381735	21	9 4.0	18.6
177831 2005 NQ_{47}	16.0	X	347.30236	275.22524	307.88095	11.40002	0.1584631	0.23426097	2.6061701	21	3 4.9	19.1
177832 2005 NX_{50}	16.3	X	104.74051	122.67097	253.15879	4.26326	0.0295716	0.21491578	2.7603057	21	—	—
177833 2005 NJ_{52}	16.5	X	99.54018	225.63276	49.07213	2.55335	0.1739318	0.26022163	2.4298182	21	11 25.5	20.2
177834 2005 NW_{55}	15.1	X	321.28822	358.09533	266.14627	14.10019	0.2105733	0.17255020	3.1954037	21	3 18.5	19.5
177835 2005 NM_{59}	16.3	X	336.18838	2.71658	106.77787	2.57201	0.0607630	0.20957921	2.8069667	21	—	—
177836 2005 NU_{65}	16.3	X	40.97718	201.74639	171.30079	2.07059	0.0768442	0.20133397	2.8830888	21	12 30.4	20.3
177837 2005 NU_{69}	15.3	X	207.17720	290.68701	116.32937	10.06295	0.0852714	0.17505355	3.1648668	21	5 27.6	20.2
177838 2005 NZ_{69}	15.2	X	283.80849	131.84941	291.14725	9.16560	0.1001486	0.18997437	2.9969032	21	9 7.3	19.3
177839 2005 NB_{73}	16.3	X	138.24812	56.08577	177.83748	6.20796	0.2612538	0.26223967	2.4173366	21	11 13.1	20.5
177840 2005 NR_{75}	16.7	X	121.14783	319.77237	291.27346	1.48173	0.1520087	0.26193245	2.4192264	21	11 15.2	20.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
177841 2005 ND_{80}	15.1	X	253.18767	2.42327	13.79444	9.08141	0.1058328	0.17842138	3.1249144	21	6 2.2	19.9
177842 2005 NA_{96}	16.1	X	113.57592	301.97713	112.88808	3.04792	0.0429616	0.22412197	2.6841890	21	2 10.1	19.6
177843 2005 NJ_{122}	16.2	X	100.00836	183.75111	148.76051	2.27720	0.1183377	0.20516797	2.8470582	21	—	—
177844 2005 NL_{122}	15.6	X	197.58227	152.05875	124.74659	5.84698	0.0587084	0.21231293	2.7828198	21	—	—
177845 2005 OZ_{9}	15.1	X	338.49751	198.44390	120.79146	11.47847	0.0281327	0.18140889	3.0905113	21	7 22.8	19.3
177846 2005 OD_{10}	15.7	X	68.32108	261.80786	80.61185	5.33443	0.1723707	0.19992100	2.8966572	21	—	—
177847 2005 OV_{18}	15.3	X	34.56946	144.13557	162.14097	8.06365	0.1162158	0.18728089	3.0255691	21	10 3.9	19.1
177848 2005 OV_{19}	15.8	X	40.23562	155.83188	118.06552	3.58816	0.0527792	0.18460108	3.0547797	21	8 21.4	19.9
177849 2005 OG_{24}	15.4	X	228.70733	256.71305	163.89267	12.34213	0.0746864	0.17838994	3.1252815	21	7 4.9	20.3
177850 2005 OM_{24}	16.3	X	37.40140	96.08568	199.96116	4.23718	0.1224272	0.18853435	3.0121439	21	9 23.3	20.0
177851 2005 OC_{26}	16.3	X	184.44353	12.37572	248.60720	1.38828	0.0763937	0.20879459	2.8139944	21	—	—
177852 2005 OZ_{26}	15.6	X	358.99701	275.87854	59.27002	1.20009	0.1209403	0.18544418	3.0455139	21	9 14.1	19.0
177853 Lumezzane	16.9	X	301.78096	127.71192	164.02778	14.22650	0.2012056	0.23440883	2.6050740	21	3 30.4	20.4
177854 2005 PY_{5}	15.2	X	239.98929	252.89161	206.49419	13.75052	0.0402930	0.18837585	3.0138333	21	9 6.9	19.7
177855 2005 PL_{19}	15.9	X	50.89604	141.98645	147.58816	1.82913	0.0324849	0.18836097	3.0139920	21	9 22.4	20.1
177856 2005 PN_{19}	16.2	X	167.23755	321.33456	345.50976	3.90733	0.0535989	0.21108270	2.7936218	21	—	—
177857 2005 PP_{19}	15.3	X	345.03820	15.78273	342.78372	10.26727	0.0167329	0.18742190	3.0240513	21	9 19.6	19.5
177858 2005 QX	15.3	X	322.18557	236.56772	133.00244	10.67842	0.0920991	0.18551575	3.0447305	21	9 1.1	19.1
177859 2005 QB_{3}	15.7	X	273.04728	47.96066	303.24486	4.78435	0.1910747	0.17423104	3.1748194	21	5 14.2	20.6
177860 2005 QG_{3}	15.3	X	164.20196	307.11170	174.92338	9.14178	0.0381034	0.17767544	3.1336546	21	7 9.6	20.0
177861 2005 QM_{9}	15.5	X	336.73968	167.37302	147.88432	5.86379	0.1523980	0.17837812	3.1254196	21	7 5.7	19.1
177862 2005 QE_{13}	15.4	X	319.43194	249.33033	329.53879	14.22910	0.0438012	0.22164301	2.7041660	21	2 11.3	19.0
177863 2005 QE_{16}	15.7	X	54.76459	129.78311	167.56405	10.52902	0.0934472	0.18933754	3.0036193	21	10 17.9	19.8
177864 2005 QG_{19}	15.6	X	93.66702	103.71133	163.90563	9.06252	0.0526072	0.19164482	2.9794630	21	10 23.2	19.9
177865 2005 QU_{20}	15.5	X	3.37876	154.30913	150.41570	12.25605	0.1442466	0.18130633	3.0916767	21	8 10.3	19.1
177866 2005 QL_{28}	16.1	X	208.64306	343.95255	289.78300	3.54681	0.0273687	0.21313301	2.7756768	21	—	—
177867 2005 QV_{31}	15.6	X	315.94936	64.74736	294.58304	3.47511	0.1609925	0.18210028	3.0826837	21	7 28.8	19.2
177868 2005 QR_{33}	16.1	X	112.32498	344.14025	335.32250	1.26873	0.0640638	0.20355808	2.8620496	21	—	—
177869 2005 QN_{45}	14.7	X	36.55095	109.71925	147.62469	16.67782	0.0473324	0.17838961	3.1252854	21	7 23.0	19.1
177870 2005 QR_{46}	15.7	X	312.26405	307.34793	71.64146	2.25901	0.0766994	0.18269155	3.0760288	21	8 30.0	19.7
177871 2005 QQ_{48}	15.0	X	27.26483	253.01385	15.19976	11.43903	0.1036875	0.17950808	3.1122900	21	8 3.9	19.1
177872 2005 QV_{58}	15.1	X	303.84569	158.66717	125.63508	5.76434	0.1078876	0.16743498	3.2601576	21	4 14.6	19.6
177873 2005 QR_{70}	14.9	X	335.65812	326.63943	354.84311	9.16930	0.0759175	0.17810031	3.1286689	21	7 21.4	19.0
177874 2005 QM_{74}	15.5	X	189.30200	302.78366	2.99027	5.43294	0.0495093	0.21102004	2.7941748	21	—	—
177875 2005 QS_{78}	15.6	X	230.14396	280.22539	356.31837	12.81588	0.1377245	0.21523628	2.7575648	21	1 8.1	20.2
177876 2005 QW_{83}	15.4	X	13.38648	114.93848	216.48072	1.03357	0.2148160	0.18591704	3.0403477	21	10 13.4	18.4
177877 2005 QB_{95}	15.8	X	272.50596	324.83433	4.00054	3.27140	0.2083248	0.17165845	3.2064607	21	4 15.3	20.8
177878 2005 QO_{101}	15.5	X	199.28059	154.40131	317.74178	10.45186	0.0406999	0.17925896	3.1151727	21	8 8.5	20.0
177879 2005 QH_{104}	15.3	X	180.89805	127.45312	229.52394	4.43733	0.1141252	0.15748241	3.3961069	21	2 28.8	20.7
177880 2005 QD_{109}	15.6	X	154.08306	320.08708	319.09508	5.15289	0.0579878	0.20243977	2.8725802	21	—	—
177881 2005 QA_{113}	15.2	X	70.12268	153.38275	116.81053	8.95839	0.0315260	0.18550545	3.0448432	21	9 25.6	19.5
177882 2005 QH_{113}	16.2	X	125.87117	280.98576	9.97701	3.01159	0.1791674	0.20000695	2.8958273	21	12 29.8	21.1
177883 2005 QA_{119}	16.0	X	267.53811	28.99433	22.88469	0.65717	0.0594541	0.18142220	3.0903601	21	8 12.6	20.4
177884 2005 QS_{124}	16.0	X	272.38044	306.20649	136.37265	2.37942	0.0282814	0.18749268	3.0232902	21	10 2.8	20.2
177885 2005 QD_{137}	15.5	X	55.47423	178.75192	26.36930	5.61271	0.1003759	0.17087672	3.2162326	21	6 18.8	19.8
177886 2005 QN_{138}	15.0	X	18.73695	258.80408	7.53182	10.17225	0.0363660	0.17526280	3.1623472	21	7 11.7	19.4
177887 2005 QC_{141}	15.9	X	197.04613	137.50370	152.82808	13.35402	0.1713742	0.21307259	2.7762016	21	—	—
177888 2005 QE_{142}	14.8	X	268.48372	13.48125	348.11462	16.83180	0.1028779	0.17080065	3.2171875	21	5 31.5	19.8
177889 2005 QZ_{143}	14.8	X	319.27865	138.23552	146.60612	16.76426	0.0235590	0.16901067	3.2398629	21	5 19.0	19.6
177890 2005 QP_{146}	15.3	X	288.68199	320.63263	109.91281	10.09867	0.0340563	0.19128347	2.9832141	21	10 12.6	19.5
177891 2005 QK_{159}	15.2	X	295.52865	222.42241	129.02744	12.61870	0.0783175	0.17691146	3.1426697	21	6 29.6	19.6
177892 2005 QE_{163}	15.7	X	164.96081	199.08610	93.78422	5.93179	0.0938746	0.20876213	2.8142860	21	—	—
177893 2005 QP_{170}	15.2	X	95.12944	13.37440	240.06394	8.73108	0.0721429	0.18841265	3.0134409	21	10 4.0	19.6
177894 2005 QY_{177}	15.1	X	335.30474	180.63193	128.62513	6.11163	0.1460850	0.17494371	3.1661914	21	6 25.8	18.8
177895 2005 QU_{178}	14.9	X	178.58766	63.15250	269.79458	4.01630	0.0927266	0.15301784	3.4618481	21	1 31.0	20.2
177896 2005 RD_{6}	15.0	X	359.02138	171.78224	160.72470	8.85147	0.0663329	0.18348168	3.0671916	21	9 7.9	18.9
177897 2005 RK_{6}	15.3	X	310.71014	210.47682	94.12804	6.33506	0.2034991	0.17469311	3.1692186	21	5 4.3	19.5
177898 2005 RX_{7}	14.5	X	16.68732	162.57269	177.89113	6.75512	0.2165516	0.12409304	3.9808067	21	10 21.1	19.2
177899 2005 RG_{23}	15.6	X	298.44227	355.98233	265.66909	11.06300	0.2047580	0.22929326	2.6436778	21	2 9.6	19.7
177900 2005 RS_{30}	15.5	X	214.23389	102.20892	353.18809	8.24558	0.0376306	0.17930814	3.1146031	21	8 7.5	20.0
177901 2005 RZ_{37}	15.1	X	324.20216	80.92654	223.49270	8.52944	0.0595602	0.17485327	3.1672830	21	6 10.8	19.4
177902 2005 RG_{40}	15.2	X	221.43554	137.05965	329.20672	9.87788	0.0387545	0.18173640	3.0867972	21	8 26.9	19.6
177903 2005 RD_{41}	15.9	X	249.05695	92.65738	152.26557	6.86948	0.0908073	0.21376855	2.7701727	21	—	—
177904 2005 SV_{5}	15.3	X	320.16751	123.07621	209.79530	3.44633	0.1878313	0.17641006	3.1486217	21	6 25.9	19.0
177905 2005 SA_{11}	15.5	X	22.32744	4.68547	248.52258	3.74092	0.0958380	0.17224578	3.1991676	21	7 1.1	19.5
177906 2005 SO_{19}	15.3	X	18.35884	269.47032	30.76454	7.70776	0.1512605	0.17865572	3.1221811	21	9 5.2	19.0
177907 2005 SF_{67}	14.9	X	8.70477	268.01170	15.73386	6.69136	0.1842046	0.17775618	3.1327056	21	7 27.1	18.3
177908 2005 SN_{77}	15.8	X	6.17233	300.65117	154.55180	2.50509	0.0297475	0.20292596	2.8679901	21	—	—
177909 2005 SX_{96}	15.7	X	47.78180	301.51634	343.08248	1.27955	0.0647572	0.18293115	3.0733423	21	9 15.1	19.7
177910 2005 SA_{114}	15.8	X	93.91810	201.14725	355.48317	2.21187	0.0322630	0.17367797	3.1815559	21	7 19.9	20.2
177911 2005 SF_{117}	15.1	X	328.73296	356.50578	30.02574	11.10710	0.0149194	0.18624374	3.0367911	21	10 7.5	19.2
177912 2005 SO_{122}	15.2	X	352.72550	181.96714	148.29593	11.33249	0.1510288	0.18152659	3.0891753	21	8 27.2	18.5
177913 2005 SN_{139}	15.4	X	134.69532	186.50521	21.49405	10.84471	0.1090747	0.18328797	3.0693524	21	9 28.9	20.1
177914 2005 SX_{142}	16.4	X	324.96703	169.46638	124.77243	4.58332	0.2269412	0.23501660	2.6005808	21	5 2.7	19.2
177915 2005 SQ_{159}	14.9	X	308.74745	44.83116	265.66344	9.69732	0.0740193	0.16982975	3.2294374	21	5 25.8	19.4
177916 2005 SY_{166}	15.2	X	340.48424	204.57476	155.66266	10.79150	0.0906305	0.18141828	3.0904047	21	9 16.9	19.0
177917 2005 SY_{178}	15.3	X	139.77683	222.14569	357.59260	9.79640	0.0253052	0.18649451	3.0340683	21	10 10.4	19.7
177918 2005 SL_{181}	15.4	X	313.87383	213.79610	8.14016	8.21465	0.1958643	0.22098050	2.7095682	21	1 18.4	19.2
177919 2005 SN_{190}	14.8	X	349.99075	271.55307	33.88859	9.55007	0.0735730	0.17453906	3.1710831	21	7 22.1	19.0
177920 2005 SG_{225}	14.6	X	212.20075	214.37730	120.66641	10.33423	0.1203145	0.15542804	3.4259666	21	3 9.4	20.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
177921 2005 SE_{233}	15.0	X	35.61946	287.29359	27.27373	3.46383	0.2324807	0.18455821	3.0552527	21	10 30.9	18.9
177922 2005 SD_{244}	15.7	X	267.02542	70.59901	339.08430	8.52237	0.0745243	0.18070946	3.0984807	21	8 8.3	20.0
177923 2005 SL_{245}	15.7	X	321.64250	48.94067	259.54870	0.27365	0.1453370	0.17164951	3.2065721	21	6 1.8	19.7
177924 2005 SV_{246}	15.5	X	18.90869	37.76801	216.14614	4.19988	0.0981257	0.16989352	3.2286292	21	6 26.7	19.5
177925 2005 SV_{252}	14.6	X	108.31076	43.42955	168.83730	17.34403	0.0533720	0.17850215	3.1239716	21	8 27.8	19.1
177926 2005 SP_{258}	15.6	X	83.54997	295.28751	352.76213	9.90736	0.0882940	0.19314017	2.9640645	21	11 4.1	20.0
177927 2005 SP_{259}	15.3	X	22.33597	257.01547	37.03425	10.36204	0.0515301	0.18201461	3.0836510	21	8 26.7	19.5
177928 2005 SK_{260}	15.8	X	171.45285	20.59763	160.48699	11.16835	0.0448997	0.18981642	2.9985654	21	10 4.2	20.2
177929 2005 TE_{2}	16.0	X	282.63807	240.36137	344.19886	4.36556	0.1029019	0.21322431	2.7748844	21	—	—
177930 2005 TH_{43}	15.9	X	321.26836	64.25730	162.14086	3.93909	0.0390303	0.21951697	2.7215980	21	2 22.9	19.6
177931 2005 TD_{56}	15.2	X	12.94499	66.58905	212.12089	4.24951	0.0414879	0.17362070	3.1822555	21	7 16.9	19.4
177932 2005 TW_{73}	15.0	X	7.91998	261.64500	123.16140	9.10127	0.0477898	0.19409560	2.9543295	21	11 28.6	19.0
177933 2005 TR_{75}	16.0	X	290.55659	326.43605	310.58655	5.99692	0.3597661	0.22823583	2.6518370	21	2 8.2	20.4
177934 2005 TQ_{101}	14.4	X	330.98973	266.76958	52.98945	13.51033	0.1312991	0.17350462	3.1836748	21	7 4.3	18.5
177935 2005 TS_{111}	15.6	X	10.56712	26.28402	241.06196	3.25480	0.1293357	0.17372662	3.1809619	21	7 2.3	19.4
177936 2005 UD_{10}	15.1	X	30.90013	202.96154	93.72825	7.51080	0.1652410	0.18053304	3.1004989	21	9 24.2	19.0
177937 2005 UD_{49}	14.9	X	19.34888	288.42871	13.39443	15.12978	0.0752964	0.17670790	3.1450827	21	9 3.9	19.1
177938 2005 UJ_{121}	15.4	X	357.31314	35.79425	252.40704	0.93494	0.1297117	0.17108323	3.2136439	21	7 7.3	19.0
177939 2005 UV_{137}	15.9	X	125.99079	173.98513	75.04843	1.16047	0.2359187	0.18920794	3.0049908	21	11 12.8	20.9
177940 2005 UC_{144}	14.9	X	262.47217	66.72150	59.72214	3.79730	0.1693155	0.12461980	3.9695812	21	10 16.9	20.5
177941 2005 UR_{265}	14.5	X	224.07084	51.97151	142.90001	2.54342	0.1643457	0.12376199	3.9879024	21	11 24.5	20.5
177942 2005 VP_{17}	15.2	X	25.71170	167.12664	149.96175	5.03126	0.1631825	0.18125429	3.0922684	21	10 10.0	18.9
177943 2005 VZ_{17}	14.5	X	268.34202	244.44001	263.62730	1.74013	0.1487014	0.12579298	3.9448617	21	11 18.9	20.0
177944 2005 VM_{64}	15.8	X	123.94332	92.12751	141.91677	3.22447	0.1436295	0.18282639	3.0745162	21	10 20.7	20.7
177945 2005 WO_{60}	15.3	X	298.69269	134.13693	129.75919	16.11047	0.1353716	0.22118719	2.7078799	21	3 2.7	19.1
177946 2005 WG_{68}	15.3	X	63.63277	55.87113	213.72789	11.99382	0.2677766	0.18353203	3.0666306	21	10 15.0	19.7
177947 2006 JS_{6}	16.8	X	258.90636	321.55553	67.45949	4.92487	0.1494616	0.27074176	2.3664603	21	6 19.4	19.9
177948 2006 KV	17.0	X	33.66739	183.75495	95.86551	3.53670	0.1706972	0.27184868	2.3600320	21	9 14.8	19.3
177949 2006 KU_{96}	16.3	X	308.39927	214.18046	151.23491	7.39464	0.1389652	0.26297849	2.4128069	21	7 30.5	18.8
177950 2006 KW_{96}	17.0	X	155.15927	356.55442	263.73305	5.84152	0.1471156	0.28657551	2.2784701	21	—	—
177951 2006 KM_{114}	17.2	X	241.51613	185.86954	142.92205	21.16122	0.0580730	0.38396364	1.8747469	21	3 3.7	19.2
177952 2006 KX_{123}	15.7	X	290.50661	133.74023	236.82951	8.83128	0.2514897	0.25806225	2.4433540	21	6 19.1	18.7
177953 2006 MQ_{6}	16.6	X	9.78100	164.93869	177.62862	5.40120	0.3254868	0.26881700	2.3777429	21	12 1.4	18.8
177954 2006 OA	16.1	X	63.55217	178.96135	261.99031	12.53320	0.1520308	0.23200529	2.6230352	21	1 10.8	18.9
177955 2006 OP_{4}	15.4	X	221.66977	51.53470	11.20650	8.48386	0.1178735	0.18005485	3.1059861	21	6 27.2	20.3
177956 2006 OQ_{7}	16.7	X	40.91651	193.55092	158.60863	5.90069	0.2058850	0.27787647	2.3257777	21	—	—
177957 2006 OC_{14}	17.1	X	160.50731	185.49021	129.71076	4.07613	0.1744994	0.29332467	2.2433842	21	—	—
177958 2006 PX_{3}	16.6	X	56.48703	241.10968	99.51943	6.23033	0.2252908	0.27738269	2.3285370	21	—	—
177959 2006 PP_{5}	17.8	X	249.35154	319.43952	339.62200	4.99068	0.1388688	0.30801966	2.1714530	21	2 6.8	20.8
177960 2006 PF_{7}	17.2	X	170.73161	151.23607	97.99687	6.24995	0.1777034	0.28661646	2.2782531	21	12 31.6	20.8
177961 2006 PQ_{8}	16.5	X	325.63168	116.08768	305.52252	5.87443	0.2262830	0.27351765	2.3504218	21	12 6.0	17.9
177962 2006 PN_{14}	15.7	X	47.53161	63.92162	321.35569	8.08390	0.2943103	0.21500393	2.7595512	21	—	—
177963 2006 PR_{16}	16.7	X	162.35088	348.55134	300.80112	4.09918	0.1204642	0.28802484	2.2708202	21	—	—
177964 2006 PE_{19}	17.6	X	109.82821	151.49250	172.43467	1.98227	0.2284665	0.28503027	2.2866975	21	—	—
177965 2006 PP_{22}	16.0	X	283.17477	210.08870	169.04428	6.71744	0.1259625	0.25942401	2.4347961	21	7 11.3	19.1
177966 2006 PW_{22}	17.2	X	256.46836	8.58176	292.76050	4.51195	0.1453838	0.30692338	2.1766206	21	2 14.6	20.5
177967 Chouchihkang	16.9	X	334.89561	222.56278	163.24648	6.22314	0.1089537	0.26766698	2.3845486	21	10 27.9	19.2
177968 2006 PK_{39}	16.1	X	86.48244	286.99219	129.86213	11.74432	0.2191717	0.22891288	2.6466056	21	1 30.7	18.9
177969 2006 PM_{40}	16.4	X	182.63177	269.05010	136.04242	5.05943	0.2555337	0.24318918	2.5419864	21	4 28.7	20.9
177970 2006 PC_{41}	16.0	X	126.87976	272.45127	164.97302	6.39571	0.1197345	0.24224616	2.5485791	21	4 6.3	19.5
177971 2006 QC	17.1	X	107.95222	263.58288	68.51016	3.37705	0.1295950	0.28508556	2.2864019	21	—	—
177972 2006 QL_{2}	16.2	X	47.52096	93.01489	331.64737	11.12230	0.1994169	0.21995381	2.7179934	21	—	—
177973 2006 QO_{7}	16.3	X	212.61074	177.39087	155.49306	5.39800	0.2322539	0.23634682	2.5908138	21	2 22.3	20.8
177974 2006 QS_{8}	16.7	X	42.97063	50.81833	326.96137	6.74595	0.1208102	0.27897201	2.3196847	21	—	—
177975 2006 QR_{19}	15.9	X	209.43105	263.78839	107.74247	15.85161	0.1323847	0.24162664	2.5529335	21	4 15.8	20.2
177976 2006 QR_{20}	16.2	X	338.97924	33.64557	326.55750	9.46566	0.1505086	0.26289777	2.4133008	21	9 19.4	18.4
177977 2006 QV_{20}	15.4	X	127.76375	194.73534	168.69416	14.60540	0.1815124	0.22363026	2.6881222	21	1 11.9	19.4
177978 2006 QE_{23}	16.6	X	14.96372	306.78505	34.10384	7.68343	0.1667483	0.26702682	2.3883582	21	11 7.7	19.0
177979 2006 QV_{24}	15.9	X	109.44906	224.42928	134.60732	3.66878	0.1941887	0.21936378	2.7228650	21	—	—
177980 2006 QC_{28}	16.6	X	191.32464	219.39787	137.73951	5.79609	0.1947607	0.23517636	2.5994029	21	3 7.2	20.8
177981 2006 QO_{28}	16.5	X	15.37375	193.96234	166.84846	7.84094	0.1323569	0.27046223	2.3680905	21	12 4.4	19.2
177982 Popilnia	17.0	X	30.25441	221.41490	158.01701	2.84886	0.2186144	0.27694126	2.3310107	21	—	—
177983 2006 QE_{37}	15.1	X	189.72346	46.57964	358.09136	15.88818	0.2277586	0.17493212	3.1663312	21	4 28.7	20.8
177984 2006 QU_{42}	16.8	X	70.74933	248.99571	90.13218	1.88446	0.0971075	0.27810186	2.3245209	21	—	—
177985 2006 QV_{42}	16.7	X	64.27195	230.17183	137.68805	7.54390	0.1308217	0.28096412	2.3087070	21	—	—
177986 2006 QM_{43}	16.5	X	1.63509	217.10953	111.07116	2.14989	0.1991718	0.26308848	2.4121344	21	9 28.2	18.3
177987 2006 QP_{43}	17.3	X	16.08413	269.56807	49.83810	2.51562	0.2075499	0.26486055	2.4013633	21	10 16.6	19.3
177988 2006 QV_{45}	15.8	X	101.61555	271.03357	165.75953	15.58665	0.1755662	0.22836122	2.6508663	21	3 14.0	19.2
177989 2006 QX_{46}	16.2	X	75.41522	163.81515	100.40796	7.71064	0.0911932	0.26884607	2.3775715	21	10 13.1	19.4
177990 2006 QP_{48}	16.8	X	211.66589	154.72361	181.36017	4.72161	0.2366900	0.30196187	2.2003984	21	2 17.8	20.4
177991 2006 QA_{49}	17.3	X	231.65538	85.94064	232.25702	1.67758	0.2248999	0.30464976	2.1874367	21	2 11.6	20.9
177992 2006 QP_{56}	15.9	X	17.78322	204.09665	201.25970	7.84517	0.2233740	0.20927940	2.8096468	21	—	—
177993 2006 QW_{57}	14.7	X	249.04841	34.71672	341.53738	15.84268	0.2401719	0.18092948	3.0959682	21	5 11.2	20.1
177994 2006 QP_{63}	16.7	X	1.86689	131.29004	202.75946	3.74609	0.2004415	0.26418335	2.4054652	21	10 7.0	18.5
177995 2006 QB_{66}	16.6	X	330.12821	327.72384	171.32213	23.04774	0.0558545	0.35692436	1.9682726	21	—	—
177996 2006 QT_{76}	17.2	X	227.63723	227.42225	122.06309	1.80519	0.1236069	0.24274036	2.5451188	21	3 29.9	21.0
177997 2006 QZ_{88}	16.3	X	142.39677	329.70169	7.82186	6.09373	0.1349402	0.29006993	2.2601343	21	—	—
177998 2006 QK_{113}	16.9	X	145.16786	317.94802	323.32187	6.16375	0.1778977	0.28329047	2.2960503	21	—	—
177999 2006 QL_{115}	16.4	X	163.07283	43.57867	311.79694	13.03519	0.1751621	0.23131811	2.6282275	21	2 5.9	20.4
178000 2006 QT_{117}	16.1	X	50.30364	202.60863	176.59948	3.88431	0.1440688	0.21324820	2.7746772	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
178001 2006 QK_{120}	15.7	X	292.01398	41.56281	275.18735	7.99204	0.1276705	0.18476001	3.0530276	21	4 30.6	20.1
178002 2006 QR_{122}	15.2	X	267.51341	38.03511	338.05703	13.95161	0.2163832	0.18413544	3.0599274	21	6 4.0	20.2
178003 2006 QV_{125}	16.5	X	204.79375	248.92914	97.59394	8.73490	0.1210105	0.23794160	2.5792244	21	3 7.4	20.6
178004 2006 QK_{127}	16.1	X	57.22697	0.48088	44.34802	8.64800	0.2873455	0.21713051	2.7415036	21	—	—
178005 2006 QD_{128}	15.5	X	244.28215	150.13620	269.87012	9.56756	0.0480724	0.19223769	2.9733340	21	7 24.5	19.9
178006 2006 QH_{135}	16.7	X	74.32909	181.16539	99.56409	2.99617	0.1294112	0.26937330	2.3744682	21	11 4.9	19.8
178007 2006 QX_{136}	16.1	X	107.88485	244.29548	110.18834	9.88368	0.1878561	0.22053546	2.7132122	21	—	—
178008 Picard	15.8	X	182.90592	280.26365	161.41935	14.80786	0.3109252	0.17851433	3.1238296	21	6 13.4	21.8
178009 2006 QC_{146}	16.6	X	277.81341	140.47417	352.96776	8.22671	0.1492558	0.27593349	2.3366829	21	12 16.4	19.0
178010 2006 QJ_{149}	16.4	X	63.65641	220.27453	150.73322	6.92731	0.0943534	0.21356514	2.7719314	21	—	—
178011 2006 QC_{162}	16.6	X	123.07062	277.98971	123.84250	4.30687	0.0761569	0.23001125	2.6381734	21	2 9.3	20.1
178012 2006 QY_{163}	15.7	X	11.56764	256.67949	182.13777	13.64884	0.1923982	0.21383005	2.7696415	21	—	—
178013 2006 QP_{166}	16.9	X	1.79552	46.62199	316.48712	5.69943	0.1442386	0.26678667	2.3897912	21	11 11.8	19.4
178014 2006 RG	15.1	X	343.04602	340.13714	333.76158	9.29321	0.0782353	0.18735273	3.0247956	21	7 22.2	19.0
178015 2006 RW_3	17.2	X	4.94126	199.11942	185.17208	2.54730	0.1155998	0.27184120	2.3600753	21	12 17.4	19.7
178016 2006 RU_6	15.9	X	16.87010	108.64231	6.03029	14.68410	0.1032007	0.21972215	2.7199034	21	—	—
178017 2006 RH_8	16.8	X	309.35681	149.35524	338.91009	7.13904	0.0392195	0.28240293	2.3008585	21	—	—
178018 2006 RN_8	17.4	X	246.00329	172.90410	115.40746	1.65495	0.1601328	0.30286310	2.1960310	21	1 20.1	20.6
178019 2006 RC_9	16.6	X	352.05331	8.00850	13.35151	1.41395	0.1913708	0.26771738	2.3842494	21	11 29.1	18.6
178020 2006 RL_{16}	16.7	X	152.94233	9.08138	287.39511	7.76282	0.1823409	0.28624552	2.2802209	21	—	—
178021 2006 RX_{19}	16.1	X	50.18137	230.46184	177.79212	12.71364	0.1531245	0.21661311	2.7458674	21	—	—
178022 2006 RE_{22}	16.3	X	80.16037	162.99851	171.31982	11.56099	0.1940198	0.27636965	2.3342238	21	—	—
178023 2006 RZ_{26}	17.2	X	250.37341	130.63356	169.31925	3.41949	0.1850948	0.30338368	2.1935182	21	2 6.1	20.4
178024 2006 RU_{30}	16.0	X	38.59679	45.07224	6.47076	12.78178	0.1439482	0.21416531	2.7667503	21	—	—
178025 2006 RN_{31}	16.4	X	111.83933	214.83569	158.52288	2.52785	0.1777623	0.22189651	2.7021061	21	1 5.8	20.0
178026 2006 RU_{34}	16.1	X	93.72468	55.30871	294.72777	3.38244	0.0889638	0.21547762	2.7555054	21	—	—
178027 2006 RF_{41}	16.2	X	339.93600	140.12015	307.65254	12.29414	0.0617308	0.27852309	2.3221766	21	—	—
178028 2006 RO_{44}	17.5	X	250.17881	160.73605	46.17837	2.68154	0.1427912	0.28333118	2.2958304	21	—	—
178029 2006 RC_{48}	16.8	X	135.79874	198.29873	169.07499	5.48612	0.1715255	0.29105299	2.2550422	21	1 11.7	19.6
178030 2006 RA_{50}	16.7	X	48.27686	141.77099	30.73667	0.57047	0.0415659	0.23774920	2.5806157	21	4 13.6	19.9
178031 2006 RG_{52}	16.6	X	136.30717	124.91358	187.69936	4.76687	0.0393462	0.21393076	2.7687722	21	—	—
178032 2006 RY_{52}	15.8	X	179.38647	253.76195	186.89714	5.92079	0.1727992	0.17494058	3.1662292	21	6 8.1	21.1
178033 2006 RR_{55}	15.9	X	244.69309	231.73319	157.91058	1.49412	0.1917959	0.18046192	3.1013135	21	6 2.9	20.9
178034 2006 RT_{57}	16.6	X	205.38714	199.07178	151.50366	2.53106	0.1068043	0.23641753	2.5902972	21	3 9.6	20.4
178035 2006 RG_{60}	15.6	X	14.48993	53.27323	17.34860	8.45268	0.0513734	0.21157580	2.7892796	21	—	—
178036 2006 RW_{63}	16.2	X	18.25670	15.10764	15.71923	7.23023	0.1162502	0.27135433	2.3628975	21	—	—
178037 2006 RA_{66}	17.0	X	188.58342	204.11044	18.29967	4.02618	0.1482088	0.27574914	2.3377242	21	12 15.7	20.4
178038 2006 RH_{66}	16.7	X	352.36911	267.29083	91.68152	6.92053	0.2032454	0.26525318	2.3989930	21	10 30.1	18.6
178039 2006 RH_{68}	16.7	X	116.28855	226.68302	175.77008	3.94481	0.1565731	0.22756647	2.6570346	21	2 12.3	20.3
178040 2006 RY_{69}	17.1	X	317.22900	173.81618	346.39704	3.30923	0.1098780	0.28705409	2.2759369	21	—	—
178041 2006 RC_{75}	17.0	X	155.58468	54.69111	180.22766	6.26251	0.0811563	0.27278738	2.3546148	21	12 2.1	20.3
178042 2006 RV_{77}	16.5	X	33.08625	243.16758	161.71271	4.71325	0.0768231	0.21243118	2.7817870	21	—	—
178043 2006 RP_{91}	16.4	X	210.04318	209.19904	10.78757	10.85321	0.1579784	0.27911279	2.3189046	21	—	—
178044 2006 RT_{92}	16.7	X	102.93248	200.30310	204.37992	3.42225	0.0903271	0.22447288	2.6813909	21	1 19.5	20.1
178045 2006 RC_{93}	16.9	X	61.66820	326.70687	321.15270	1.59129	0.1231202	0.26551187	2.3974345	21	10 26.5	19.9
178046 2006 RA_{94}	16.4	X	142.17837	6.35009	350.37252	5.04118	0.0889713	0.22324623	2.6912040	21	1 10.4	20.2
178047 2006 RB_{95}	16.1	X	341.56968	305.64530	210.46667	6.69514	0.1646363	0.21915390	2.7246031	21	—	—
178048 2006 RA_{97}	16.4	X	160.50089	202.75454	357.33321	2.44128	0.1338162	0.26377267	2.4079614	21	10 19.8	20.1
178049 2006 RL_{99}	16.2	X	72.62077	43.78142	9.78482	3.24867	0.0838903	0.21964807	2.7205150	21	—	—
178050 2006 RB_{105}	17.4	X	143.94452	319.05355	345.54951	4.21065	0.1904760	0.28435060	2.2903400	21	—	—
178051 2006 SC_5	16.1	X	42.19268	45.82724	358.33248	5.65147	0.0547783	0.21363277	2.7713463	21	—	—
178052 2006 SY_7	15.7	X	76.86475	302.12086	60.18089	6.10309	0.1837919	0.21286327	2.7780212	21	—	—
178053 2006 SV_{11}	16.5	X	91.37228	28.52850	288.74677	4.35417	0.0979782	0.27598488	2.3363928	21	—	—
178054 2006 SM_{14}	16.2	X	66.52808	108.04342	247.56346	2.69266	0.2073905	0.21136243	2.7911565	21	—	—
178055 2006 SU_{16}	17.2	X	350.77044	170.07003	194.22415	4.98300	0.2305499	0.26471148	2.4022647	21	11 4.6	18.7
178056 2006 SY_{23}	16.2	X	112.23047	271.09785	114.96119	7.95067	0.1032907	0.22370091	2.6875562	21	1 11.1	19.7
178057 2006 SH_{26}	16.4	X	8.52319	92.10130	292.96448	7.04267	0.1488564	0.20439443	2.8542369	21	12 11.0	19.9
178058 2006 ST_{29}	17.1	X	8.03187	195.54140	232.93203	5.20911	0.0541279	0.28319480	2.2965674	21	—	—
178059 2006 SJ_{32}	16.0	X	21.64500	70.60629	3.62175	4.85375	0.1040152	0.21459674	2.7630408	21	—	—
178060 2006 SN_{36}	16.6	X	126.56010	264.75214	43.60241	10.19005	0.0835218	0.28236835	2.3010464	21	—	—
178061 2006 SR_{36}	16.2	X	75.72333	246.57482	99.04138	7.62114	0.1332142	0.27855727	2.3219866	21	—	—
178062 2006 SN_{38}	16.9	X	127.11207	325.47441	217.80313	6.11781	0.0666844	0.25578032	2.4578647	21	8 17.3	20.4
178063 2006 SN_{42}	15.4	X	257.76109	192.14996	198.38828	7.41165	0.1013686	0.18284407	3.0743181	21	6 27.3	19.9
178064 2006 SB_{62}	15.7	X	256.47770	217.85097	160.43395	9.32283	0.1877870	0.18241041	3.0791887	21	6 2.2	20.6
178065 2006 SX_{63}	15.9	X	159.05470	220.17690	144.47387	4.93477	0.2905235	0.22784062	2.6549028	21	2 23.3	20.5
178066 2006 SF_{64}	16.0	X	177.20822	26.27793	0.01608	7.21108	0.2142049	0.23393381	2.6085994	21	3 29.4	20.3
178067 2006 SU_{71}	15.5	X	170.16110	290.67779	192.69493	13.49933	0.1438175	0.17980581	3.1088533	21	7 18.4	20.8
178068 2006 SY_{76}	16.0	X	84.53429	341.42775	22.50643	4.90283	0.1277056	0.21542804	2.7559281	21	—	—
178069 2006 SN_{90}	17.2	X	28.14626	287.35703	352.25197	2.13107	0.1821597	0.25715151	2.4491196	21	9 2.8	19.6
178070 2006 SC_{92}	16.5	X	199.89753	95.85142	229.00964	1.14675	0.1190713	0.22858254	2.6491549	21	2 1.4	20.6
178071 2006 SA_{96}	16.7	X	112.63387	257.30573	164.08915	1.67815	0.0931062	0.22711201	2.6605779	21	2 23.4	20.3
178072 2006 SX_{97}	16.7	X	220.38934	311.57000	53.46993	1.18553	0.1657572	0.23923660	2.5699083	21	4 9.6	20.7
178073 2006 SH_{98}	16.4	X	182.40214	77.82794	186.25721	4.13817	0.0242959	0.21242250	2.7818628	21	—	—
178074 2006 SG_{104}	16.3	X	267.66555	122.71008	184.58204	4.47022	0.0143696	0.23866690	2.5739963	21	3 31.7	19.6
178075 2006 SE_{112}	15.4	X	129.06953	242.85777	156.52089	27.10774	0.1541864	0.22722547	2.6596922	21	2 23.9	19.3
178076 2006 SV_{117}	15.6	X	209.87150	210.46390	196.70660	3.10507	0.0961875	0.17650589	3.1474820	21	5 28.2	20.4
178077 2006 ST_{127}	15.5	X	269.39806	292.01156	127.25549	12.24387	0.2092170	0.18829744	3.0146699	21	8 2.9	19.9
178078 2006 SF_{131}	16.6	X	93.28450	59.90700	325.53090	12.41474	0.2040880	0.21893248	2.7264398	21	1 1.8	19.9
178079 2006 SJ_{131}	15.4	X	250.34906	56.35576	344.85911	12.04203	0.1314170	0.18035332	3.1025583	21	6 30.6	20.2
178080 2006 SL_{152}	17.1	X	228.33598	228.78239	323.98459	1.78835	0.1364936	0.27532582	2.3401198	21	12 25.1	19.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
178081 2006 SM_{157}	17.1	X	264.70240	192.29107	346.45648	2.76992	0.0842416	0.28183167	2.3039666	21	—	—
178082 2006 SG_{160}	15.8	X	189.84730	17.11747	51.85551	6.19118	0.1202794	0.17562966	3.1579419	21	6 2.5	20.8
178083 2006 SR_{168}	16.0	X	167.70572	117.84246	343.64475	9.49141	0.1967050	0.17833067	3.1259740	21	6 23.6	21.4
178084 2006 SP_{170}	17.1	X	102.43855	237.83609	349.81182	2.35169	0.1321903	0.26219672	2.4176005	21	9 26.2	20.5
178085 2006 ST_{178}	16.4	X	238.60516	231.51584	156.46974	0.29075	0.1880710	0.18095164	3.0957154	21	5 26.2	21.2
178086 2006 SZ_{192}	16.3	X	104.12012	51.82627	17.88952	3.95577	0.0700182	0.22923468	2.6441281	21	2 20.8	19.7
178087 2006 SY_{196}	16.2	X	175.99137	206.21845	114.92569	14.19790	0.1866904	0.22392434	2.6857681	21	1 10.6	20.5
178088 2006 SY_{197}	16.0	X	17.80182	22.84647	150.94066	9.50387	0.0281763	0.23099430	2.6306831	21	3 3.8	19.3
178089 2006 SY_{199}	16.5	X	140.97927	265.88657	8.56663	6.74008	0.0957266	0.27570921	2.3379499	21	—	—
178090 2006 SO_{212}	16.0	X	155.47599	0.40679	302.86938	5.09073	0.0180253	0.21407579	2.7675216	21	—	—
178091 2006 SB_{213}	15.5	X	103.03144	228.19615	136.67903	13.20107	0.0501642	0.21528543	2.7571451	21	—	—
178092 2006 SD_{213}	15.0	X	247.19381	220.47853	174.61606	22.95554	0.2546397	0.18026503	3.1035713	21	6 7.8	20.5
178093 2006 SP_{214}	16.0	X	38.89863	280.44359	128.76558	3.65790	0.0947269	0.21374692	2.7703595	21	—	—
178094 2006 SS_{218}	15.7	X	284.65927	59.58111	354.35235	8.33889	0.0908569	0.18903014	3.0068748	21	9 3.9	19.6
178095 2006 SD_{221}	17.7	X	228.15475	124.77676	150.64138	0.24425	0.1085489	0.29573741	2.2311660	21	—	—
178096 2006 SY_{227}	15.9	X	165.20764	125.86996	345.58742	9.95768	0.1867939	0.17890870	3.1192373	21	7 4.2	21.3
178097 2006 SL_{230}	16.1	X	113.18877	205.76468	151.98592	5.33524	0.0774448	0.21927761	2.7235783	21	—	—
178098 2006 SK_{231}	16.5	X	68.03628	323.89974	229.07751	2.63538	0.0426459	0.24712329	2.5149360	21	6 10.4	19.6
178099 2006 SZ_{235}	15.3	X	246.72655	225.59897	182.57854	9.85109	0.1190266	0.18314450	3.0709551	21	7 4.4	20.1
178100 2006 SP_{251}	16.9	X	229.71128	125.19814	194.33844	3.47633	0.0404753	0.23348492	2.6119418	21	2 25.4	20.4
178101 2006 ST_{256}	16.3	X	195.84162	308.75251	289.18919	2.39093	0.0408913	0.21107856	2.7936584	21	—	—
178102 2006 SJ_{278}	17.5	X	180.56827	260.91206	349.55408	6.62677	0.0805528	0.28183221	2.3039637	21	—	—
178103 2006 SH_{280}	15.5	X	219.75076	328.23918	90.32607	6.39269	0.1323308	0.17806537	3.1290781	21	6 18.8	20.3
178104 2006 SJ_{281}	15.2	X	176.92253	295.35466	66.24760	26.47231	0.3924762	0.16686556	3.2675701	21	3 26.4	21.8
178105 2006 SC_{284}	16.0	X	146.93922	186.71767	142.08957	10.27124	0.2157884	0.22073250	2.7115973	21	—	—
178106 2006 SD_{286}	16.5	X	103.70765	202.36057	231.56492	3.24701	0.0818661	0.23154164	2.6265357	21	2 23.9	20.0
178107 2006 SL_{300}	17.0	X	33.21265	215.90429	112.72835	6.24539	0.1514724	0.26756825	2.3851351	21	11 19.7	19.8
178108 2006 SV_{312}	16.7	X	189.27988	330.89079	175.49716	6.22207	0.0675809	0.25831625	2.4417521	21	9 13.1	19.9
178109 2006 SN_{313}	16.5	X	268.71829	292.06730	37.32374	4.96913	0.0896664	0.24301175	2.5432235	21	4 21.0	19.9
178110 2006 SN_{328}	16.9	X	141.24595	57.19611	146.51858	3.26297	0.1095535	0.26008600	2.4306629	21	10 6.3	20.4
178111 2006 SU_{328}	17.1	X	206.76542	171.70016	49.65555	5.05738	0.1824827	0.27749277	2.3279211	21	12 30.7	20.4
178112 2006 SZ_{366}	16.5	X	168.52477	359.13992	293.13910	6.73451	0.1331324	0.28585510	2.2822966	21	—	—
178113 Benjamindilday	15.4	X	186.55317	314.91964	142.37281	14.80746	0.0313333	0.17797429	3.1301456	21	7 5.7	20.1
178114 2006 SA_{391}	15.4	X	294.87696	59.12796	357.25309	10.16847	0.0838487	0.19182835	2.9775623	21	9 21.4	19.3
178115 2006 SB_{393}	14.8	X	195.32445	255.47810	152.99052	18.49009	0.1691830	0.17238329	3.1974660	21	5 18.5	20.4
178116 2006 TK_{7}	16.3	X	213.08842	64.57345	1.04091	1.55526	0.1424907	0.17967085	3.1104100	21	6 20.3	21.2
178117 2006 TG_{8}	16.3	X	107.85109	193.52593	198.31138	1.81515	0.0898827	0.22041825	2.7141740	21	1 11.2	19.8
178118 2006 TD_{12}	16.9	X	99.90945	35.04405	275.26412	1.63027	0.2299684	0.27700836	2.3306343	21	—	—
178119 2006 TX_{18}	15.4	X	234.76789	197.31741	228.16925	8.76623	0.0448273	0.18241874	3.0790950	21	7 19.6	20.0
178120 2006 TU_{24}	16.2	X	341.39317	230.30574	23.75869	15.36618	0.0560645	0.24420394	2.5349396	21	4 22.3	19.3
178121 2006 TX_{24}	15.8	X	257.18429	332.31887	351.83445	1.04855	0.1017063	0.17114465	3.2128750	21	4 5.9	20.7
178122 2006 TS_{25}	16.7	X	330.45579	134.66280	293.65806	0.78523	0.0787012	0.20107177	2.8855946	21	12 1.0	20.3
178123 2006 TT_{30}	16.7	X	206.66582	346.18046	203.53176	1.42701	0.0068217	0.20161370	2.8804213	21	11 27.6	20.7
178124 2006 TW_{31}	16.0	X	205.45815	338.90622	212.25735	2.06382	0.1248393	0.20099154	2.8863624	21	11 15.9	20.3
178125 2006 TR_{33}	16.0	X	266.36620	271.22389	34.93213	5.46896	0.1036549	0.23676708	2.5877471	21	3 19.6	19.6
178126 2006 TZ_{38}	16.3	X	347.71761	208.92767	45.77134	6.49792	0.1373721	0.24051203	2.5608149	21	4 27.9	18.7
178127 2006 TU_{42}	16.4	X	52.20800	173.58019	231.32933	3.58230	0.0714078	0.21111068	2.7933750	21	—	—
178128 2006 TL_{43}	16.1	X	182.41549	279.56130	167.06385	0.04713	0.1469185	0.17375612	3.1806018	21	6 17.4	21.1
178129 2006 TB_{47}	15.6	X	176.04193	28.87392	46.09536	8.78834	0.0665440	0.17194674	3.2028757	21	5 26.0	20.3
178130 2006 TR_{47}	15.7	X	95.69282	328.25972	46.52192	12.53988	0.0855913	0.21449990	2.7638724	21	—	—
178131 2006 TT_{47}	16.7	X	135.23513	208.65664	49.14668	3.58305	0.1839710	0.26946495	2.3739297	21	12 7.8	20.5
178132 2006 TL_{49}	15.6	X	201.21265	55.71674	336.46908	1.10186	0.1166897	0.17157200	3.2075377	21	4 30.2	20.6
178133 2006 TU_{49}	16.5	X	30.64396	263.72015	139.75590	4.29990	0.0936883	0.20875900	2.8143142	21	—	—
178134 2006 TM_{50}	15.7	X	214.68059	264.96955	57.02528	3.16339	0.1996618	0.22961832	2.6411822	21	2 13.4	20.2
178135 2006 TE_{53}	16.3	X	278.66257	226.67597	75.45018	4.57250	0.2013265	0.23766335	2.5812371	21	3 17.3	20.2
178136 2006 TJ_{55}	16.0	X	192.73994	262.79744	139.35071	7.37871	0.1113595	0.23809360	2.5781266	21	5 3.1	20.0
178137 2006 TV_{55}	16.2	X	120.91236	228.63195	90.55778	9.80872	0.2474452	0.28107398	2.3081053	21	—	—
178138 2006 TE_{62}	16.0	X	78.84257	303.33528	128.93009	13.33339	0.1611127	0.22389951	2.6859667	21	1 31.4	19.0
178139 2006 TX_{63}	16.6	X	135.76150	242.52335	59.32079	7.92406	0.1257222	0.27975448	2.3153573	21	—	—
178140 2006 TY_{70}	15.4	X	172.57685	283.55367	188.22680	14.92411	0.2166393	0.17682889	3.1436480	21	7 7.9	21.0
178141 2006 TP_{71}	16.4	X	302.11586	36.55955	273.98978	1.97034	0.0418776	0.24429471	2.5343116	21	5 16.7	19.4
178142 2006 TH_{73}	15.4	X	312.12294	359.99512	14.29415	14.25267	0.0550029	0.18794885	3.0183963	21	8 31.3	19.5
178143 2006 TP_{73}	15.3	X	223.67418	248.35615	138.67672	12.86391	0.1136594	0.17524524	3.1625584	21	5 20.0	20.4
178144 2006 TZ_{75}	16.0	X	74.67454	320.62606	61.20932	4.95420	0.0783743	0.21384607	2.7695032	21	—	—
178145 2006 TG_{80}	17.0	X	240.84847	28.11070	277.78569	4.29978	0.1635520	0.29980308	2.2109487	21	2 5.6	20.3
178146 2006 TB_{83}	16.2	X	327.48105	290.71858	303.49788	3.29391	0.0523600	0.23251761	2.6191808	21	3 8.4	19.4
178147 2006 TC_{87}	15.5	X	190.59700	136.15019	24.98613	4.88331	0.0182288	0.19103270	2.9858242	21	10 1.7	19.8
178148 2006 TZ_{87}	16.0	X	347.68730	19.88607	241.88255	5.06442	0.1079282	0.24145903	2.5541148	21	5 10.4	18.7
178149 2006 TO_{91}	15.8	X	40.28591	129.42966	232.72689	6.79561	0.0161044	0.20087615	2.8874677	21	12 7.8	19.8
178150 Taiyuinkwei	16.5	X	216.90392	173.58134	158.79227	4.60214	0.0843654	0.23099655	2.6306661	21	2 27.3	20.3
178151 Kulangsu	15.3	X	162.69482	59.17703	64.42868	10.16242	0.0726236	0.17833711	3.1258987	21	7 12.9	20.1
178152 2006 TA_{96}	15.8	X	281.36348	42.34870	330.70881	8.27948	0.1528056	0.18464394	3.0543070	21	6 27.9	20.1
178153 2006 TR_{97}	16.5	X	90.93658	354.13492	331.84861	2.45763	0.2674797	0.27616084	2.3354002	21	—	—
178154 2006 TP_{109}	15.6	X	77.93197	300.27890	336.31132	4.70293	0.0213057	0.19244679	2.9711798	21	10 7.1	19.7
178155 Kenzaarraki	15.4	X	259.18503	260.10700	134.49855	11.25523	0.0520044	0.18226339	3.0808443	21	7 11.3	19.8
178156 Borbála	16.1	X	359.85307	320.97218	238.10474	14.24949	0.0698666	0.23067714	2.6330939	21	3 1.2	19.7
178157 2006 UX_{5}	16.1	X	75.37117	10.18868	44.13804	6.02157	0.0070919	0.21873634	2.7280695	21	—	—
178158 2006 UN_{6}	15.4	X	245.37709	244.30710	196.44382	10.29733	0.0680114	0.18635231	3.0356115	21	8 17.7	19.9
178159 2006 UK_{8}	15.7	X	186.60085	306.27525	40.96519	2.91260	0.2100365	0.22840862	2.6504995	21	2 20.9	20.2
178160 2006 UH_{11}	16.7	X	294.52408	138.29252	192.92187	3.66181	0.1188366	0.24659862	2.5185019	21	5 23.3	19.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
178161 2006 UF_{13}	16.5	X	235.62008	50.98980	171.20030	4.98429	0.0259695	0.21174139	2.7878252	21	—	—
178162 2006 UG_{18}	17.1	X	205.97165	65.49552	354.01845	4.76192	0.1873192	0.24613877	2.5216378	21	6 1.9	21.3
178163 2006 UL_{32}	16.0	X	277.62329	358.56497	210.05680	4.31046	0.0477001	0.21763883	2.7372332	21	—	—
178164 2006 UN_{32}	16.3	X	200.44719	170.46354	3.27726	0.36501	0.0546520	0.19621213	2.9330456	21	10 25.7	20.5
178165 2006 UB_{41}	15.3	X	281.61106	67.10294	223.04272	0.42090	0.1285494	0.16788231	3.2543637	21	3 20.1	20.0
178166 2006 UD_{43}	16.2	X	78.41181	265.48380	172.54436	1.83359	0.0441698	0.22157553	2.7047151	21	1 23.8	19.7
178167 2006 UH_{46}	16.6	X	68.53920	193.24386	159.55711	2.26371	0.0941997	0.20538401	2.8450613	21	—	—
178168 2006 UZ_{46}	15.8	X	173.52461	8.32401	127.29970	2.08271	0.1056973	0.17949644	3.1124245	21	8 8.0	20.6
178169 2006 UM_{52}	15.4	X	266.26255	338.41737	43.81280	9.78643	0.0285460	0.18110349	3.0939847	21	7 8.9	19.9
178170 2006 US_{53}	15.9	X	311.09135	80.76089	210.51703	5.21706	0.1333366	0.23942854	2.5685347	21	4 19.2	18.9
178171 2006 UH_{64}	15.4	X	288.29369	84.01316	325.20467	7.84589	0.0835200	0.19004211	2.9961909	21	9 1.5	19.5
178172 2006 UM_{64}	15.0	X	27.59579	249.28559	359.90847	9.29399	0.0808841	0.18104769	3.0946204	21	7 4.4	19.1
178173 2006 UG_{68}	16.1	X	4.64258	226.51242	121.81690	3.15269	0.1078185	0.19494967	2.9456946	21	10 12.8	19.7
178174 2006 UV_{78}	16.6	X	105.80593	152.43313	328.40070	3.13468	0.0595936	0.23613709	2.5923477	21	4 26.2	19.9
178175 2006 UV_{83}	16.5	X	209.28763	26.01799	295.94935	3.73876	0.1848506	0.22938489	2.6429737	21	2 7.1	20.8
178176 2006 UQ_{84}	16.2	X	293.96781	73.04834	225.73311	2.92286	0.1419357	0.23830949	2.5765692	21	4 3.9	19.7
178177 2006 UR_{85}	16.4	X	60.40605	69.11486	20.02178	4.95963	0.0833463	0.22011985	2.7166263	21	1 17.9	19.6
178178 2006 UB_{96}	16.1	X	273.83131	351.68560	108.24491	3.13088	0.0252670	0.19661614	2.9290263	21	10 28.4	20.1
178179 2006 UJ_{98}	16.4	X	13.74767	168.44508	129.38638	3.64310	0.0700724	0.18571689	3.0425317	21	8 15.7	20.1
178180 2006 UH_{123}	16.6	X	287.16327	90.14584	191.55884	3.50666	0.1377339	0.23727555	2.5840489	21	3 5.3	20.3
178181 2006 UN_{141}	16.4	X	300.94186	176.84159	79.59871	4.06709	0.1750680	0.22936261	2.6431449	21	2 15.9	20.0
178182 2006 UH_{148}	16.6	X	114.28216	267.04332	160.80497	3.16155	0.0537693	0.23257583	2.6187437	21	2 27.2	19.9
178183 2006 UG_{159}	16.2	X	289.72991	330.78677	130.79279	2.93445	0.0321034	0.20110444	2.8852821	21	11 19.5	20.1
178184 2006 UM_{160}	17.2	X	107.37742	198.26998	60.83232	4.34712	0.1923023	0.26768366	2.3844496	21	11 15.9	20.9
178185 2006 UM_{161}	15.9	X	332.91835	301.24567	194.27410	8.83238	0.1656768	0.21245657	2.7815654	21	—	—
178186 2006 UV_{167}	16.5	X	222.70617	77.10796	156.56291	4.43938	0.0458895	0.21381758	2.7697492	21	—	—
178187 2006 UD_{177}	16.4	X	348.99369	184.90466	86.16433	8.74153	0.0364063	0.24541863	2.5265683	21	6 1.5	19.5
178188 2006 UN_{193}	15.3	X	147.49099	46.55632	345.91712	13.22895	0.1051065	0.22822286	2.6519375	21	3 2.6	19.1
178189 2006 UB_{197}	16.2	X	171.66012	352.20995	209.82487	1.19000	0.0478117	0.19531221	2.9420482	21	10 28.5	20.5
178190 2006 UQ_{198}	17.4	X	339.90535	118.80471	205.99850	1.79789	0.1900887	0.25411756	2.4685747	21	7 25.2	19.2
178191 2006 UX_{203}	15.2	X	251.18028	24.20464	342.76501	12.59369	0.0839610	0.17643975	3.1482685	21	5 19.8	20.1
178192 2006 UN_{212}	16.6	X	346.72193	261.94342	324.32012	2.89876	0.0360412	0.23130420	2.6283329	21	3 27.2	19.8
178193 2006 UZ_{225}	16.5	X	162.71290	197.07504	148.00557	4.05813	0.0664514	0.22614097	2.6681888	21	1 15.1	20.4
178194 2006 UE_{227}	16.4	X	224.50303	167.34218	4.84697	7.38517	0.0489321	0.26841804	2.3800984	21	12 2.7	19.5
178195 2006 UP_{227}	16.3	X	162.84832	239.15273	159.24187	5.40076	0.0304785	0.23343841	2.6122887	21	3 19.9	19.7
178196 2006 UW_{227}	15.7	X	231.49964	253.65897	134.80969	6.23387	0.1364088	0.17717622	3.1395381	21	5 25.6	20.7
178197 2006 UP_{231}	15.4	X	103.47722	334.54584	158.37507	5.76553	0.1187039	0.17079985	3.2171975	21	5 24.9	20.1
178198 2006 UP_{272}	14.9	X	237.42394	340.84972	50.74848	11.33859	0.1128758	0.17526887	3.1622741	21	6 3.9	19.8
178199 2006 UW_{284}	16.8	X	239.11985	332.37310	281.02534	0.67980	0.0253505	0.21867256	2.7285998	21	—	—
178200 2006 UL_{288}	14.9	X	83.39644	149.39511	10.98934	12.45791	0.0243704	0.16903023	3.2396130	21	5 16.0	19.6
178201 2006 UD_{329}	16.6	X	65.28749	30.41495	244.63513	0.63039	0.1620190	0.25827950	2.4419837	21	10 19.1	19.8
178202 2006 VZ_{6}	16.4	X	229.25521	170.70579	196.86300	0.25469	0.1038663	0.23710269	2.5853047	21	4 24.4	20.3
178203 2006 VB_{12}	16.4	X	28.20000	237.76439	235.81639	2.18330	0.0631630	0.21798554	2.7343300	21	—	—
178204 2006 VK_{13}	16.2	X	193.01251	162.13528	271.27197	0.33746	0.1771407	0.17239680	3.1972990	21	6 10.6	21.5
178205 2006 VZ_{15}	15.5	X	322.50382	22.59086	281.72363	2.35711	0.0190007	0.17487063	3.1670734	21	6 12.4	19.9
178206 2006 VM_{26}	16.1	X	193.82456	136.54317	71.14776	3.10904	0.0543849	0.19807005	2.9146752	21	11 28.9	20.4
178207 2006 VC_{33}	15.1	X	131.60062	294.76837	236.84425	9.75807	0.0582370	0.18065639	3.0990875	21	8 2.2	19.9
178208 2006 VN_{41}	15.5	X	43.58888	137.35844	87.82371	2.56841	0.1083131	0.17399918	3.1776392	21	6 28.8	19.5
178209 2006 VZ_{49}	14.9	X	18.16240	249.53701	61.62578	11.88582	0.0490870	0.18409975	3.0603228	21	9 13.6	19.2
178210 2006 VR_{55}	16.3	X	218.49241	278.20716	98.62666	1.69211	0.0662570	0.23621642	2.5917672	21	4 27.3	19.9
178211 2006 VQ_{56}	15.6	X	61.16757	228.30577	96.30003	3.07241	0.0736206	0.19731088	2.9221468	21	11 25.2	19.6
178212 2006 VB_{59}	16.5	X	134.13241	290.06196	101.30006	3.36814	0.0903339	0.22295822	2.6935211	21	2 13.2	20.3
178213 2006 VT_{61}	15.0	X	331.10400	271.93322	60.24125	12.76012	0.0735409	0.18100028	3.0951608	21	7 29.5	19.2
178214 2006 VR_{64}	15.8	X	74.17809	35.50047	216.62683	2.13189	0.1169182	0.18413678	3.0599126	21	9 15.3	20.0
178215 2006 VM_{79}	17.2	X	99.01566	205.19045	94.82431	4.97782	0.1790380	0.26950963	2.3736674	21	12 27.8	20.9
178216 2006 VN_{86}	14.8	X	136.12801	46.35455	77.31214	16.85359	0.1118103	0.16991030	3.2284167	21	6 15.9	19.6
178217 2006 VM_{94}	16.6	X	22.95088	282.14811	40.98755	2.13215	0.1892365	0.25862039	2.4398373	21	10 29.6	19.1
178218 2006 VR_{100}	15.8	X	341.11529	257.64753	167.48578	5.42905	0.0924309	0.20103482	2.8859482	21	12 14.1	19.3
178219 2006 VU_{111}	15.6	X	312.63618	188.35146	22.88726	5.74171	0.2147715	0.21796055	2.7345390	21	—	—
178220 2006 VH_{120}	15.5	X	138.97850	108.62385	30.43170	7.45886	0.1212253	0.17432522	3.1736759	21	7 10.1	20.5
178221 2006 VO_{138}	16.5	X	83.11554	125.19436	195.69524	1.45175	0.0435147	0.19971629	2.8986363	21	12 12.7	20.5
178222 2006 VV_{143}	15.3	X	249.31815	78.30471	305.02796	8.09261	0.1281405	0.17919866	3.1158716	21	6 5.4	20.0
178223 2006 VT_{144}	15.5	X	286.74518	91.16260	313.66840	8.22188	0.1008326	0.18651872	3.0338058	21	8 21.7	19.6
178224 2006 VL_{153}	15.5	X	229.42942	1.59431	114.32760	11.86198	0.1438121	0.18800992	3.0177427	21	9 10.9	20.2
178225 2006 VP_{153}	15.5	X	181.40022	199.83350	105.27948	7.66721	0.0372983	0.21852333	2.7298420	21	—	—
178226 Rebeccalouise	16.7	X	138.68944	10.41268	189.95860	2.15743	0.1196408	0.26226168	2.4172013	21	9 28.5	20.3
178227 2006 WF_{1}	15.3	X	9.43403	227.81265	71.28266	18.76143	0.1384399	0.17641456	3.1485681	21	8 21.8	19.4
178228 2006 WK_{2}	17.0	X	257.30889	168.07893	151.92056	3.35497	0.2126290	0.30360326	2.1924604	21	3 9.2	20.2
178229 2006 WF_{8}	16.2	X	85.79495	195.95031	130.39601	2.99674	0.0818074	0.20475822	2.8508552	21	12 27.4	20.4
178230 2006 WK_{8}	15.7	X	145.00004	235.95942	107.80074	7.13626	0.0487124	0.21655891	2.7463255	21	—	—
178231 2006 WT_{43}	16.5	X	120.00629	154.75859	199.07343	5.86253	0.0321436	0.21318846	2.7751956	21	—	—
178232 2006 WE_{53}	15.3	X	298.84457	256.81316	150.22491	15.56933	0.0875852	0.18812297	3.0165336	21	9 16.4	19.2
178233 2006 WS_{60}	15.3	X	212.07197	290.27618	169.40144	16.67500	0.2367788	0.18029962	3.1031743	21	7 24.0	20.9
178234 2006 WY_{78}	15.5	X	16.37409	299.40423	322.28378	3.24253	0.1027172	0.17537696	3.1609748	21	7 3.9	19.5
178235 2006 WA_{97}	16.9	X	183.20174	175.85753	32.33528	1.49152	0.1184753	0.26235787	2.4166104	21	11 22.7	20.2
178236 2006 WZ_{104}	17.1	X	55.24291	147.36083	155.71530	1.42502	0.1843134	0.26036422	2.4289310	21	11 16.9	20.3
178237 2006 WV_{131}	15.3	X	269.01034	349.90878	95.11415	8.82427	0.0364613	0.18822516	3.0154417	21	10 4.3	19.6
178238 2006 WJ_{157}	16.6	X	216.99830	310.22290	344.09964	6.12311	0.1253494	0.29114957	2.2545435	21	1 2.5	20.0
178239 2006 WR_{169}	16.2	X	213.72760	198.64612	76.22245	1.59247	0.0308006	0.21363119	2.7713600	21	—	—
178240 2006 XP_{5}	15.1	X	207.01237	32.53380	300.19595	12.93346	0.2656084	0.22960851	2.6412574	21	2 15.5	19.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
178241 2006 XC_{32}	15.9	X	15.23990	119.59627	156.34647	1.13508	0.1425496	0.17782974	3.1318416	21	7 23.5	19.6
178242 2006 YX	15.7	X	85.20927	251.77889	35.81727	1.39501	0.0495955	0.19035459	2.9929110	21	11 3.7	19.8
178243 Schaerding	16.8	X	294.98858	330.61255	243.20561	0.26745	0.0971903	0.21298499	2.7769628	21	—	—
178244 2006 YY_{45}	15.2	X	92.38947	161.29133	82.38477	7.11352	0.0641632	0.18359412	3.0659392	21	9 24.0	19.7
178245 2007 BT	15.4	X	203.64888	20.13739	94.86433	21.20250	0.1427636	0.17248857	3.1961648	21	8 14.3	20.8
178246 2007 BZ_{38}	15.3	X	336.14911	218.17197	132.43686	15.17288	0.0843162	0.17612017	3.1520758	21	8 28.6	19.3
178247 2007 DB_{8}	16.0	X	41.61940	64.29048	81.71788	11.42912	0.1787381	0.21348999	2.7725818	21	3 18.3	19.1
178248 2007 RY_{50}	15.6	X	145.22357	169.46293	227.86198	8.32724	0.0912126	0.17752815	3.1353876	21	3 7.3	20.4
178249 2007 RX_{236}	15.1	X	166.59609	167.15296	225.04246	16.92829	0.2150306	0.17863441	3.1224295	21	3 29.5	20.5
178250 2007 TG_{23}	15.3	X	83.48795	276.13673	86.95394	15.24705	0.1280218	0.22636961	2.6663918	21	—	—
178251 2007 TB_{170}	15.0	X	273.68108	41.06797	237.97046	16.79227	0.1523844	0.17728517	3.1382517	21	2 15.6	20.1
178252 2007 TU_{171}	15.8	X	334.44720	337.85929	59.09288	4.19602	0.0948171	0.21267173	2.7796890	21	10 30.4	19.1
178253 2007 UA_{100}	17.6	X	69.11431	19.65264	8.20483	1.10009	0.1603199	0.29857212	2.2170214	21	—	—
178254 2007 VH_{83}	16.0	X	6.73427	117.13555	289.45270	4.29660	0.0816408	0.20911062	2.8111584	21	12 29.3	19.6
178255 2007 VN_{93}	14.5	X	108.43446	216.27413	270.96323	21.23044	0.1772666	0.17509784	3.1643331	21	5 29.5	19.4
178256 Juanmi	16.0	X	226.17175	104.68867	52.27193	4.65401	0.0427061	0.20971348	2.8057684	21	11 7.6	19.9
178257 2007 VZ_{116}	16.6	X	74.39248	338.11716	303.91855	5.51006	0.1117555	0.27552111	2.3390138	21	11 1.8	19.9
178258 2007 VK_{193}	16.7	X	111.17646	279.52180	109.84971	2.34222	0.1316974	0.22799714	2.6536875	21	1 17.3	19.9
178259 2007 VV_{202}	15.9	X	81.28862	274.22297	71.29219	3.88473	0.0299806	0.21029726	2.8005735	21	—	—
178260 2007 VO_{290}	15.3	X	211.46232	232.67474	70.05976	14.52608	0.1877005	0.23763724	2.5814262	21	1 18.3	19.8
178261 2007 VH_{302}	15.9	X	69.02781	148.77677	245.35262	11.67097	0.2493544	0.22621730	2.6675885	21	—	—
178262 2007 WK_{7}	15.9	X	145.90889	62.78015	264.52831	11.48277	0.2504179	0.23291295	2.6162162	21	—	—
178263 Wienphilo	15.0	X	183.62191	310.01078	94.77014	27.77423	0.2268324	0.17580590	3.1558312	21	5 11.5	20.8
178264 2007 YU_{2}	15.5	X	275.01596	133.08808	103.24278	14.75260	0.0633394	0.22493298	2.6777331	21	1 5.5	19.4
178265 2007 YJ_{55}	16.9	X	203.21993	38.31487	80.12796	3.09637	0.1387300	0.25986418	2.4320459	21	8 19.6	20.5
178266 2007 YJ_{56}	17.6	X	353.93936	337.05076	120.18227	0.76065	0.1689400	0.28759209	2.2730976	21	—	—
178267 Sarajevo	14.6	X	107.40660	78.19388	124.46073	21.00401	0.1276837	0.17933864	3.1142499	21	8 27.1	19.4
178268 2008 AH_{32}	12.9	X	165.84023	305.22815	140.28551	11.97231	0.0162981	0.08154119	5.2668550	21	6 1.8	20.0
178269 4178 P–L	15.4	X	59.41998	354.58613	340.58086	8.68764	0.0916509	0.19635482	2.9316244	21	12 6.7	19.7
178270 6822 P–L	16.5	X	215.63389	194.59249	146.73904	5.58390	0.2192705	0.23607122	2.5928299	21	3 7.6	20.8
178271 9084 P–L	16.0	X	158.01894	148.31404	214.01729	4.16092	0.2967208	0.23404898	2.6077436	21	2 17.7	20.5
178272 1312 T–2	15.2	X	252.04775	27.30480	3.50067	15.32588	0.1800756	0.18129895	3.0917606	21	6 10.4	20.3
178273 1400 T–2	15.7	X	101.55870	27.56896	348.04835	6.13519	0.1191826	0.21266701	2.7797302	21	—	—
178274 2031 T–2	16.9	X	281.65431	51.87774	7.28167	4.15638	0.1867775	0.26571260	2.3962269	21	8 28.8	19.5
178275 4080 T–2	16.3	X	165.78521	344.11476	20.16107	7.33003	0.2089354	0.23638748	2.5905167	21	2 24.4	20.6
178276 5120 T–2	15.4	X	247.37426	32.22781	341.34527	14.08637	0.1013942	0.24155069	2.5534686	21	5 17.6	19.4
178277 5213 T–2	16.8	X	203.25963	47.29735	283.56723	5.96974	0.2116148	0.29914658	2.2141822	21	2 3.9	20.5
178278 2136 T–3	17.0	X	9.50982	119.11741	218.16009	4.55734	0.2267522	0.26943580	2.3741010	21	11 3.7	18.8
178279 2194 T–3	15.5	X	137.84996	312.85331	12.42708	12.53111	0.0633121	0.20846947	2.8169193	21	—	—
178280 2357 T–3	17.2	X	302.69900	191.32233	209.41819	4.79659	0.2347314	0.26760655	2.3849076	21	8 26.7	19.3
178281 2635 T–3	16.7	X	248.43328	106.49988	230.98862	1.83069	0.1443861	0.23895687	2.5719136	21	4 2.4	20.6
178282 3089 T–3	16.9	X	287.84681	223.37977	201.63695	6.25351	0.1539935	0.26779982	2.3837600	21	9 20.1	19.5
178283 4261 T–3	16.3	X	218.38974	211.25086	159.27771	6.05518	0.2024493	0.23884680	2.5727037	21	4 15.0	20.7
178284 1978 WB_{1}	14.7	X	358.96846	338.43310	67.32103	15.29461	0.1760483	0.18373551	3.0643661	21	12 18.8	18.3
178285 1981 EA_{33}	15.8	X	37.47981	146.19571	337.35471	12.32946	0.1467352	0.21986185	2.7187512	21	1 30.2	18.7
178286 1981 EQ_{35}	16.6	X	327.78071	71.48606	142.18415	1.27955	0.1731528	0.21987718	2.7186248	21	1 26.8	19.8
178287 1981 UW_{27}	16.3	X	60.01443	4.31926	17.37096	5.44577	0.3024017	0.27698490	2.3307659	21	—	—
178288 1983 QF_{1}	16.5	X	283.14132	18.52237	311.21531	2.00115	0.1962172	0.22858672	2.6491226	21	4 24.4	20.4
178289 1989 TH_{3}	16.8	X	345.55217	196.26102	127.90033	3.39148	0.2282397	0.27524745	2.3405640	21	8 9.2	17.9
178290 1989 TD_{4}	15.9	X	233.27993	266.17946	82.10928	4.10132	0.2563930	0.23600965	2.5932808	21	3 29.6	20.4
178291 1989 UV_{7}	12.6	X	321.61051	197.74935	96.15899	18.50194	0.1281965	0.08377338	5.1728753	21	5 25.8	19.2
178292 1990 QZ_{19}	15.7	X	80.82929	124.40393	195.89664	8.75158	0.1796830	0.19830344	2.9123879	21	12 23.7	20.3
178293 1990 SN	17.1	X	171.11791	10.84607	0.51194	6.21494	0.3160626	0.30368001	2.1920910	21	3 7.2	20.7
178294 Wertheimer	16.6	X	313.10382	19.88906	346.43629	3.23579	0.2514633	0.25208767	2.4818087	21	7 23.0	18.9
178295 1992 DJ_{6}	14.2	X	278.15955	353.09278	135.72989	3.54797	0.1601673	0.12471696	3.9675193	21	11 8.4	19.6
178296 1992 SM_{6}	15.9	X	169.95272	351.38508	2.81633	9.17842	0.0543331	0.22197517	2.7014677	21	2 6.7	19.8
178297 1993 FK_{31}	16.7	X	185.79322	144.82439	46.27978	4.36240	0.0825282	0.26231897	2.4168494	21	11 6.7	20.0
178298 1993 FT_{51}	16.4	X	113.36915	165.45703	53.41256	3.23603	0.1528179	0.25773270	2.4454364	21	9 29.6	20.1
178299 1993 FU_{53}	14.1	X	226.49419	17.22097	157.24203	8.94301	0.0990957	0.12566182	3.9476061	21	11 12.5	20.0
178300 1993 ON	16.5	X	238.93811	165.40105	158.46967	8.35340	0.1536715	0.23653997	2.5894032	21	3 8.0	20.4
178301 1993 QW_{3}	15.7	X	244.09051	26.90335	341.45189	7.36977	0.1765724	0.23825095	2.5769913	21	5 2.2	19.9
178302 1993 TR_{10}	16.5	X	349.38220	45.48748	222.87346	8.08486	0.1555227	0.23777409	2.5804356	21	5 20.4	18.9
178303 1993 TB_{27}	15.3	X	182.18789	334.84213	44.44991	5.73257	0.2156861	0.23129152	2.6284289	21	3 27.9	19.7
178304 1994 GW_{2}	17.0	X	173.13326	270.63566	16.99685	20.56101	0.0959778	0.35088505	1.9907932	21	—	—
178305 1994 GL_{8}	16.6	X	157.82965	3.07895	299.15524	4.68160	0.1688230	0.27821386	2.3238970	21	—	—
178306 1994 PT_{25}	16.9	X	108.07350	189.59995	119.45301	3.19118	0.1838222	0.26630148	2.3926931	21	—	—
178307 1994 PS_{29}	16.6	X	144.55439	133.12135	165.38734	7.48180	0.2571826	0.26932948	2.3747257	21	—	—
178308 1994 PP_{32}	15.6	X	49.78005	87.39599	203.48029	4.99889	0.1813928	0.18565475	3.0432106	21	10 13.2	19.4
178309 1994 RP_{5}	16.9	X	83.32260	67.64975	224.52647	2.05340	0.1761191	0.26101353	2.4249011	21	12 2.1	20.3
178310 1994 RF_{10}	15.3	X	307.01874	212.86383	185.15564	9.17514	0.0612205	0.18152002	3.0892499	21	9 15.8	19.3
178311 1994 SC_{3}	15.3	X	151.40907	204.42860	356.29752	11.14035	0.1089971	0.18357933	3.0661039	21	10 2.7	20.2
178312 1994 SR_{7}	15.7	X	103.65064	27.98962	180.08881	11.81829	0.1466361	0.17820351	3.1274608	21	8 27.4	20.5
178313 1994 TK_{6}	16.3	X	71.47814	56.79825	182.32814	5.83830	0.0848892	0.25243906	2.4795051	21	8 25.7	19.4
178314 1994 TD_{9}	16.7	X	72.09781	89.37266	189.90963	2.30665	0.1614179	0.25642051	2.4537720	21	11 2.0	19.9
178315 1994 TC_{16}	15.6	X	274.22595	7.04477	18.42222	12.57811	0.0792502	0.17659622	3.1464085	21	7 18.1	20.2
178316 1995 CL_{2}	17.4	X	165.02518	232.21635	147.13079	6.69570	0.2025770	0.30585448	2.1816889	21	3 3.8	20.6
178317 1995 DB_{7}	16.1	X	348.97686	250.26969	352.27740	12.53039	0.1234847	0.22986830	2.6392670	21	4 10.2	19.2
178318 1995 FB_{2}	16.8	X	314.96351	141.66025	137.34105	3.50112	0.1775958	0.26705634	2.3881822	21	3 29.5	19.5
178319 1995 FL_{6}	16.6	X	62.24909	82.52988	6.78015	7.67900	0.2811365	0.22610702	2.6684558	21	2 12.8	18.9
178320 1995 FK_{10}	16.5	X	280.48540	180.36727	66.29739	4.77193	0.0424868	0.22213004	2.7002119	21	1 28.9	20.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
178321 1995 HY_1	15.4	X	166.44690	179.51079	162.47413	11.22577	0.2631943	0.21455637	2.7633874	21	1 31.8	20.2
178322 1995 KB_4	15.8	X	293.28351	213.51062	50.93002	15.09329	0.0759430	0.22278127	2.6949472	21	3 10.6	19.8
178323 1995 OC_6	16.1	X	63.23407	190.45597	126.54239	3.06352	0.0986022	0.19608142	2.9343489	21	11 21.9	20.3
178324 1995 OB_{14}	17.2	X	292.95150	325.56489	183.84504	5.41775	0.0857945	0.27999801	2.3140145	21	—	—
178325 1995 SB_9	17.3	X	271.70642	139.34948	5.79561	1.48881	0.1275907	0.27356607	2.3501445	21	12 25.4	19.6
178326 1995 SA_{17}	16.1	X	279.89929	116.29405	277.08305	0.04015	0.1947118	0.18521780	3.0479949	21	7 15.4	20.1
178327 1995 SL_{18}	17.5	X	295.93905	84.92863	355.86377	2.38027	0.1675826	0.26621520	2.3932100	21	10 27.4	19.6
178328 1995 SS_{32}	17.3	X	264.50471	24.55823	166.67271	6.70957	0.0586143	0.27957662	2.3163392	21	—	—
178329 1995 SO_{36}	15.4	X	309.21554	282.63183	208.04053	12.21529	0.0470453	0.20206076	2.8761712	21	—	—
178330 1995 SR_{37}	16.5	X	217.46528	306.27441	351.63900	5.38174	0.1678120	0.28604073	2.2813091	21	1 9.6	20.1
178331 1995 SL_{40}	17.2	X	264.02455	124.21442	4.27752	2.65765	0.0990510	0.27171408	2.3608114	21	11 22.3	19.7
178332 1995 SN_{41}	15.6	X	291.32052	288.65226	171.95632	10.61080	0.0859310	0.19254792	2.9701393	21	11 14.6	19.6
178333 1995 SY_{41}	17.0	X	262.88295	345.80654	152.25592	3.06414	0.1434769	0.27010068	2.3702033	21	11 28.1	19.6
178334 1995 SF_{43}	17.0	X	163.32755	135.30020	96.13868	2.38874	0.1388908	0.27190593	2.3597007	21	12 2.5	20.4
178335 1995 SA_{73}	16.3	X	232.43277	278.31779	199.34524	6.36283	0.0932207	0.18692901	3.0293648	21	9 16.5	20.7
178336 1995 TE_4	15.7	X	248.93805	256.78303	206.38793	4.74012	0.1092091	0.18651394	3.0338575	21	9 15.4	20.0
178337 1995 UM_2	16.9	X	145.45340	244.17527	74.49198	6.15846	0.2008679	0.27820387	2.3239526	21	—	—
178338 1995 UT_6	15.1	X	290.63029	58.11892	315.66144	16.71812	0.3687852	0.18408783	3.0604550	21	6 7.7	19.8
178339 1995 UM_{23}	16.1	X	311.12318	122.14280	283.68334	2.40957	0.0889191	0.18708392	3.0276924	21	9 29.2	20.0
178340 1995 UL_{26}	17.1	X	286.41110	325.22030	85.03621	2.46239	0.1746092	0.26266010	2.4147563	21	8 25.1	19.6
178341 1995 UK_{35}	17.3	X	217.08140	45.51339	107.12808	3.04493	0.1441285	0.26490269	2.4011086	21	10 18.6	20.7
178342 1995 UD_{38}	17.2	X	154.14744	194.35038	21.18189	7.29603	0.0733282	0.26714074	2.3876792	21	11 2.6	20.4
178343 1995 VC_8	17.5	X	110.98044	231.37148	59.58353	1.97706	0.1743238	0.26977013	2.3721391	21	12 27.2	21.2
178344 1995 VZ_9	16.3	X	223.70471	98.27433	31.23087	0.98206	0.1597887	0.18557975	3.0440304	21	9 16.2	20.9
178345 1995 VZ_{16}	17.2	X	18.48109	76.42282	238.09559	6.04042	0.1149575	0.26173291	2.4204558	21	9 25.1	19.8
178346 1995 WQ_1	15.6	X	154.54670	133.91948	264.21342	3.79423	0.2347673	0.24379577	2.5377681	21	3 23.9	19.8
178347 1995 WH_{12}	17.3	X	300.67957	301.62653	113.33950	4.38492	0.1927927	0.26249045	2.4157967	21	9 25.9	19.5
178348 1995 WQ_{19}	16.6	X	86.59646	150.59240	194.57459	4.96463	0.2470125	0.27353555	2.3503193	21	—	—
178349 1995 WT_{30}	17.5	X	336.93430	291.70996	62.42201	3.17262	0.2017447	0.26203478	2.4185965	21	9 9.6	19.2
178350 1995 YZ_{19}	14.9	X	184.42676	1.41414	109.01426	9.17353	0.0207839	0.17226787	3.1988940	21	7 20.1	19.5
178351 1996 AO_6	15.6	X	90.95925	251.90295	341.95450	4.43679	0.1314699	0.17559822	3.1583189	21	9 13.8	20.1
178352 1996 EB_5	16.2	X	346.45277	135.25600	162.56226	2.99342	0.1992936	0.24358017	2.5392654	21	6 25.3	18.2
178353 1996 GO_5	16.5	X	31.76977	131.03930	155.09750	4.97709	0.1865532	0.24488794	2.5302171	21	9 19.3	19.1
178354 1996 RX	17.0	X	147.81384	67.11157	341.30659	19.06482	0.1177239	0.37949913	1.8894215	21	3 2.3	18.7
178355 1996 RZ_9	16.3	X	195.16906	216.04208	68.92292	1.38797	0.0385651	0.21392194	2.7688484	21	—	—
178356 1996 RV_{13}	16.0	X	120.33247	27.26638	352.18516	10.86904	0.0471119	0.21438869	2.7648281	21	1 9.5	19.9
178357 1996 RW_{20}	17.7	X	339.83328	92.58541	342.40869	4.40995	0.1577481	0.28301544	2.2975376	21	—	—
178358 1996 TL_{31}	16.2	X	134.27890	326.40961	43.35829	5.35530	0.0730141	0.21141005	2.7907373	21	1 17.8	20.1
178359 1996 VW_9	17.0	X	238.12308	161.35515	148.17920	6.23969	0.1920996	0.29741897	2.2227482	21	2 8.1	20.4
178360 1996 VF_{27}	16.2	X	274.06443	117.07763	59.85295	5.17273	0.0733599	0.20393850	2.8584893	21	—	—
178361 1996 WL_3	16.3	X	242.54704	339.56113	0.45195	5.63795	0.2326815	0.30115821	2.2043112	21	3 20.5	19.8
178362 1996 XE_{16}	16.8	X	196.18320	7.75905	248.78155	6.02580	0.0797479	0.28429679	2.2906289	21	—	—
178363 1997 AG_6	16.2	X	20.13965	138.70456	294.29582	6.07952	0.0914654	0.28053666	2.3110516	21	—	—
178364 1997 AT_{10}	14.9	X	156.87429	108.22998	296.47316	19.76536	0.0962607	0.17169907	3.2059549	21	3 21.3	20.2
178365 1997 BT_4	15.7	X	158.63291	306.18814	273.76455	2.42701	0.0752903	0.18817270	3.0160021	21	11 3.1	20.2
178366 1997 CU_7	17.1	X	286.15463	274.55209	190.29139	2.16212	0.1206815	0.27164416	2.3612165	21	11 22.9	19.3
178367 1997 CG_{12}	16.2	X	175.22671	179.71376	143.29790	5.10434	0.1727164	0.28131284	2.3067986	21	1 1.2	19.6
178368 1997 CP_{16}	17.1	X	217.14710	141.65842	105.71928	0.43556	0.0750456	0.27888552	2.3201643	21	—	—
178369 1997 CZ_{23}	17.5	X	310.87402	54.99841	112.72436	1.49341	0.0216013	0.28120617	2.3073819	21	—	—
178370 1997 EM_4	17.3	X	147.38650	88.48946	158.85194	1.78182	0.1403867	0.26604017	2.3942596	21	12 6.2	20.9
178371 1997 ET_4	15.7	X	200.29973	124.44657	7.19898	5.43542	0.1032812	0.17930548	3.1146339	21	8 31.6	20.5
178372 1997 ER_{10}	15.2	X	67.39382	299.41246	359.77228	15.93082	0.1233004	0.18223494	3.0811650	21	10 30.7	19.8
178373 1997 EJ_{26}	16.9	X	110.31434	268.74412	353.90145	6.24860	0.0818000	0.26427130	2.4049315	21	11 13.5	20.3
178374 1997 GZ_2	15.8	X	10.54211	147.83554	182.00337	9.45220	0.0706804	0.17944760	3.1129892	21	9 20.8	19.9
178375 1997 GY_{10}	16.4	X	157.62831	275.97213	6.46266	3.70915	0.2187124	0.26861325	2.3789451	21	—	—
178376 1997 GR_{18}	15.6	X	213.34827	228.14328	20.85099	13.40901	0.1288879	0.23208342	2.6224465	21	—	—
178377 1997 GL_{20}	16.4	X	152.08678	264.31172	20.86664	6.42691	0.2007836	0.26854002	2.3793776	21	—	—
178378 1997 GB_{25}	16.9	X	118.73226	95.18932	189.69137	2.17623	0.1761196	0.26610876	2.3938482	21	12 26.0	20.7
178379 1997 HP_{14}	15.8	X	180.45403	94.13480	38.45873	2.07848	0.0990177	0.17451421	3.1713841	21	8 11.9	20.8
178380 1997 KM_4	15.3	X	167.54092	12.65139	160.09628	16.07635	0.1215232	0.17724146	3.1387677	21	9 17.4	20.2
178381 1997 NS_2	16.1	X	80.17823	127.71161	280.36150	6.42459	0.2480186	0.22296032	2.6935043	21	1 13.5	18.8
178382 1997 NW_5	16.3	X	195.18860	76.29392	300.45083	6.61713	0.1197295	0.23411368	2.6072631	21	3 28.4	20.4
178383 1997 PD_4	15.9	X	283.58603	359.40721	307.10057	7.09675	0.1859647	0.23732334	2.5837020	21	3 23.8	19.8
178384 1997 SS_{18}	16.8	X	352.41043	305.71339	357.04275	4.98170	0.1631438	0.24340729	2.5404676	21	7 21.6	19.1
178385 1997 TQ_{13}	17.2	X	279.49756	151.05603	170.90942	0.76614	0.1208223	0.23663856	2.5886840	21	4 20.7	20.7
178386 1997 TE_{16}	16.5	X	247.03487	343.17904	358.79318	11.79126	0.1349927	0.23474348	2.6025976	21	4 5.9	20.6
178387 1997 TN_{30}	13.0	X	284.08142	126.14285	359.57397	0.67666	0.0909869	0.08270787	5.2172081	21	11 13.1	19.6
178388 1997 US_5	16.1	X	256.03851	312.44129	33.09651	5.78387	0.3053939	0.23475928	2.6024808	21	4 8.6	20.5
178389 1997 WH_9	16.6	X	295.54744	280.06909	46.39605	4.74609	0.2300872	0.23668117	2.5883733	21	4 30.9	20.0
178390 1998 EC_{10}	15.7	X	264.20382	205.54901	319.21688	7.07142	0.2300650	0.20037596	2.8922709	21	12 4.9	19.5
178391 1998 FH_1	15.9	X	291.82841	315.49383	152.43017	9.29553	0.0104887	0.19741920	2.9210778	21	12 2.4	20.0
178392 1998 FS_{38}	16.6	X	318.23478	252.99032	353.53275	6.51128	0.1407203	0.29803034	2.2197074	21	2 17.6	19.1
178393 1998 FD_{47}	14.7	X	46.67413	205.91869	352.82280	11.07030	0.1779333	0.17569887	3.1571126	21	6 5.6	18.7
178394 1998 HT_{41}	17.8	X	278.08068	86.39845	143.93018	2.71910	0.1310743	0.29029828	2.2589489	21	—	—
178395 1998 HW_{113}	16.9	X	352.16182	88.45585	148.31105	5.31925	0.1439457	0.29859668	2.2168998	21	3 31.0	18.7
178396 1998 HB_{146}	16.6	X	265.36831	143.69872	134.42186	5.33014	0.1818306	0.29131206	2.2537050	21	1 25.7	20.2
178397 1998 HE_{146}	16.4	X	261.05737	138.92141	126.19696	4.14690	0.1429686	0.28982549	2.2614049	21	1 7.8	19.6
178398 1998 KO_{43}	16.4	X	141.26028	186.47352	98.88456	7.69788	0.1075401	0.27326790	2.3518537	21	—	—
178399 1998 MT_{30}	15.5	X	50.31643	304.91888	290.96896	6.03455	0.1110422	0.17113961	3.2129381	21	7 22.9	19.7
178400 1998 OA_{11}	16.3	X	112.72875	9.77737	310.03892	8.94255	0.2083991	0.27151413	2.3619703	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
178401 1998 QY_2	16.6	X	67.61376	152.12927	147.09553	12.81509	0.1877348	0.26437460	2.4043051	21	11 29.5	20.3
178402 1998 QZ_2	16.3	X	344.74187	211.02633	143.35133	13.21206	0.2711449	0.25857989	2.4400921	21	10 7.7	17.8
178403 1998 QT_3	16.7	X	28.77980	253.00843	153.18780	23.35050	0.1046270	0.35522108	1.9745595	21	—	—
178404 1998 QB_4	16.8	X	106.30804	251.25818	79.94942	5.57322	0.2261222	0.27170683	2.3608533	21	—	—
178405 1998 QJ_{23}	16.3	X	146.20828	291.27336	351.43329	5.33026	0.2329033	0.27245539	2.3565271	21	—	—
178406 1998 QP_{26}	16.3	X	195.05109	297.06240	26.78331	4.07587	0.1594167	0.23805977	2.5783708	21	1 28.4	20.4
178407 1998 QY_{27}	16.2	X	71.46453	167.39543	168.27353	2.05597	0.1976324	0.26660333	2.3908867	21	—	—
178408 1998 RR	15.9	X	98.48037	60.42406	305.21198	12.52626	0.1350509	0.23151816	2.6267133	21	—	—
178409 1998 RJ_3	17.1	X	210.29427	331.36268	347.78740	17.98980	0.0557435	0.36792279	1.9288491	21	1 13.5	19.6
178410 1998 RE_6	16.1	X	100.79193	3.29695	317.44233	3.29890	0.2326710	0.26959793	2.3731490	21	—	—
178411 1998 RC_9	16.5	X	90.64495	293.53513	343.35740	4.33015	0.1311476	0.26387534	2.4073367	21	11 15.0	20.0
178412 1998 RD_{28}	17.2	X	170.32675	154.13374	214.74885	3.01443	0.2678844	0.23788851	2.5796081	21	3 4.9	21.7
178413 1998 RB_{32}	16.3	X	110.54238	85.69293	225.47830	3.55994	0.1494552	0.26914471	2.3758124	21	—	—
178414 1998 RH_{34}	16.7	X	134.22790	224.46246	95.49736	3.35264	0.2211391	0.27320704	2.3522029	21	—	—
178415 1998 RO_{34}	16.1	X	30.20044	240.31927	120.70648	3.74121	0.1883844	0.26396076	2.4068174	21	—	—
178416 1998 RX_{48}	16.3	X	356.19510	139.98631	184.77976	3.98504	0.1519514	0.25613511	2.4555944	21	9 2.3	18.6
178417 1998 RN_{74}	16.6	X	184.29090	227.56650	196.84466	12.01305	0.2810970	0.24262094	2.5459538	21	5 23.1	21.3
178418 1998 RD_{78}	16.5	X	341.83545	251.03683	123.10910	3.00968	0.1954874	0.25801947	2.4436241	21	10 24.9	18.3
178419 1998 RR_{78}	15.8	X	341.64654	332.70444	33.79318	7.22001	0.1575385	0.25753750	2.4466719	21	10 10.2	17.9
178420 1998 SR_7	16.5	X	100.25870	44.30113	357.00687	4.93621	0.2922189	0.23146460	2.6271185	21	2 12.2	19.8
178421 1998 SQ_{10}	16.4	X	68.71176	201.11922	200.97575	21.41942	0.0985115	0.35934290	1.9594311	21	—	—
178422 1998 SZ_{13}	16.6	X	69.36644	0.95295	17.64957	20.63161	0.1097871	0.35509618	1.9750225	21	—	—
178423 1998 SN_{31}	16.4	X	48.58144	192.73402	170.70369	6.38063	0.0921305	0.26716307	2.3875461	21	—	—
178424 1998 SS_{85}	15.8	X	76.41683	297.61324	13.85746	8.32224	0.0751071	0.26353454	2.4094117	21	12 7.2	19.2
178425 1998 SY_{101}	16.6	X	282.77610	1.92234	11.12470	7.88793	0.2192195	0.25094186	2.4893577	21	6 17.2	20.0
178426 1998 SW_{102}	16.6	X	85.56836	186.34705	140.04570	1.82565	0.1900997	0.26665936	2.3905518	21	—	—
178427 1998 SU_{118}	16.1	X	54.79353	167.75734	186.66329	6.74770	0.1380943	0.26461998	2.4028184	21	—	—
178428 1998 SS_{151}	16.3	X	29.01708	296.49884	71.26442	4.52403	0.1112095	0.26377145	2.4079688	21	12 27.7	19.2
178429 1998 SL_{164}	16.4	X	134.21619	285.42897	71.38898	5.00324	0.2976052	0.23051679	2.6343148	21	1 25.8	20.5
178430 1998 SD_{168}	16.4	X	165.60438	331.35713	54.10941	4.35417	0.2612265	0.23907196	2.5710881	21	3 23.5	20.8
178431 1998 TE_3	16.5	X	134.90192	3.27688	337.68588	18.20564	0.0604800	0.35832895	1.9631257	21	—	—
178432 1998 TR_{35}	16.9	X	178.19754	219.20560	223.90427	4.25221	0.2089688	0.24297733	2.5434637	21	6 8.6	21.1
178433 1998 UR_2	16.2	X	211.97707	193.42076	226.71516	5.49849	0.2185828	0.24485540	2.5304412	21	6 7.9	20.4
178434 1998 UU_4	16.2	X	120.16240	327.03010	356.32890	7.23974	0.2334764	0.27277188	2.3547040	21	—	—
178435 1998 UD_{30}	15.9	X	85.68792	309.29365	77.86392	12.53683	0.1640046	0.22624090	2.6674030	21	—	—
178436 1998 UH_{38}	15.9	X	53.27113	159.60301	186.72676	6.34393	0.1585325	0.26332597	2.4106838	21	—	—
178437 1998 VM_3	16.7	X	98.80279	66.71836	260.27667	0.60041	0.1957970	0.26570167	2.3962926	21	—	—
178438 1998 WU_{28}	17.2	X	116.00175	20.51186	25.86106	1.99205	0.2139758	0.23209795	2.6223371	21	2 25.9	20.7
178439 1998 WF_{41}	16.8	X	188.94070	35.59078	42.67575	4.37828	0.2393632	0.24228434	2.5483114	21	6 10.9	21.2
178440 1998 XP_{24}	16.1	X	92.84143	168.35406	292.78174	10.38620	0.0655129	0.22890295	2.6466821	21	3 10.8	19.7
178441 1999 AO_{25}	15.8	X	135.31640	85.70216	324.55374	28.07671	0.3299482	0.23266916	2.6180434	21	3 18.2	20.6
178442 1999 CF_{24}	16.5	X	56.51541	347.06327	116.14570	5.22633	0.2247776	0.22426942	2.6830124	21	2 10.9	18.8
178443 1999 CU_{79}	15.7	X	72.47354	347.09100	166.31126	13.67014	0.1909828	0.22942377	2.6426751	21	5 20.0	19.2
178444 1999 CZ_{96}	15.9	X	54.91253	21.20970	124.91704	3.58897	0.1415216	0.22680732	2.6629601	21	4 1.0	18.7
178445 1999 CT_{118}	15.3	X	180.87597	258.28034	138.62277	15.56060	0.2228864	0.23333308	2.6130748	21	4 20.9	20.0
178446 1999 CR_{136}	16.9	X	105.92145	312.04317	106.77757	0.28827	0.1019994	0.22552182	2.6730701	21	2 13.2	20.4
178447 1999 CL_{142}	16.5	X	199.00465	259.28482	134.32247	4.42039	0.1483533	0.23362744	2.6108794	21	4 27.7	20.6
178448 1999 FG_{14}	15.7	X	205.11575	111.85670	195.79757	6.88928	0.0986816	0.21444155	2.7643738	21	1 17.5	20.0
178449 1999 FO_{15}	16.3	X	53.05746	94.05649	350.03288	7.12685	0.1884378	0.22081407	2.7109295	21	1 4.7	19.0
178450 1999 GY_1	16.4	X	165.54286	141.10312	186.75763	3.82071	0.1000644	0.21256928	2.7805820	21	1 3.2	20.6
178451 1999 GU_6	17.4	X	273.75035	273.26847	53.92109	2.30462	0.1671685	0.31263018	2.1500511	21	4 7.9	20.1
178452 1999 HC_6	15.8	X	252.49879	281.20559	4.72183	4.76689	0.0829737	0.21922836	2.7239861	21	2 11.2	19.8
178453 1999 JN_7	15.9	X	304.42980	79.32275	153.06458	8.47785	0.1908997	0.21626502	2.7488130	21	1 18.9	19.9
178454 1999 JF_{101}	15.6	X	297.16248	171.81995	118.80436	12.64953	0.3108622	0.21804542	2.7338293	21	3 13.1	19.9
178455 1999 NS_5	16.9	X	194.03619	63.86950	279.31405	3.89718	0.1969857	0.29701488	2.2247638	21	2 11.2	20.4
178456 1999 NE_{35}	17.1	X	312.07091	323.94388	326.83334	4.28742	0.1680081	0.30789389	2.1720443	21	4 3.5	19.6
178457 1999 RS_{29}	15.8	X	357.71792	84.89005	326.82935	22.39782	0.2364595	0.27625451	2.3348723	21	—	—
178458 1999 RQ_{56}	15.1	X	56.66467	145.49215	157.49789	12.61532	0.2030482	0.18558095	3.0440174	21	11 12.5	19.6
178459 1999 RQ_{63}	15.6	X	74.21697	48.18911	269.87542	0.95360	0.2724721	0.18840357	3.0135377	21	12 22.8	20.3
178460 1999 RD_{64}	14.7	X	8.00885	330.44980	346.12756	16.07188	0.1032817	0.17938794	3.1136794	21	9 3.3	18.4
178461 1999 RY_{75}	17.0	X	232.17603	341.47209	311.73503	4.26263	0.1703069	0.29484344	2.2356736	21	1 14.9	20.6
178462 1999 RA_{76}	16.9	X	313.07109	101.56996	189.98542	6.77838	0.1293052	0.30458810	2.1877319	21	4 16.4	19.0
178463 1999 RH_{78}	16.5	X	82.69820	187.24967	194.74917	5.42695	0.1440895	0.28484504	2.2876888	21	—	—
178464 1999 RS_{78}	16.8	X	56.42921	16.41981	343.46205	5.51575	0.1799543	0.27934863	2.3175993	21	—	—
178465 1999 RX_{84}	15.3	X	350.84255	327.28943	342.10714	6.70098	0.1785090	0.17579822	3.1559230	21	7 25.6	18.7
178466 1999 RE_{105}	16.4	X	126.10540	341.58640	20.82653	5.56301	0.1622641	0.28655171	2.2785963	21	—	—
178467 1999 RZ_{114}	16.6	X	80.25746	109.34122	259.72066	4.26460	0.1737718	0.28311276	2.2970111	21	—	—
178468 1999 RW_{129}	16.6	X	329.39237	158.65517	142.29857	5.39832	0.1733044	0.30918334	2.1660011	21	5 23.5	18.4
178469 1999 RN_{145}	16.5	X	91.68741	26.95314	308.45036	6.81636	0.1476109	0.28193959	2.3033787	21	—	—
178470 1999 RV_{156}	16.6	X	137.49310	346.24595	333.49212	5.43930	0.1855354	0.28608915	2.2810517	21	—	—
178471 1999 RN_{163}	16.8	X	72.04266	169.50221	191.15895	5.23513	0.1827604	0.28127038	2.3070308	21	—	—
178472 1999 RA_{166}	15.3	X	330.66357	159.08732	157.26132	5.89436	0.1896581	0.17503303	3.1651142	21	6 22.3	19.0
178473 1999 RU_{170}	16.4	X	139.96983	342.17152	352.09414	4.79889	0.1708368	0.28728121	2.2747372	21	—	—
178474 1999 RY_{171}	16.8	X	106.02921	226.50551	144.71466	6.89223	0.1332796	0.28659688	2.2783568	21	—	—
178475 1999 RC_{172}	15.2	X	1.13259	237.61327	87.58132	3.01155	0.2169050	0.17905402	3.1175493	21	9 9.9	18.3
178476 1999 RK_{177}	15.2	X	67.14083	325.02458	353.04255	13.80589	0.2482043	0.18658722	3.0330632	21	12 12.4	20.1
178477 1999 RJ_{191}	14.7	X	7.71865	332.92529	11.00866	10.64892	0.1124555	0.18158023	3.0885669	21	10 8.1	18.4
178478 1999 RE_{238}	16.3	X	342.31188	174.64259	110.35125	7.25711	0.1334375	0.30614991	2.1802851	21	5 30.3	18.1
178479 1999 RN_{252}	15.2	X	4.55733	351.98228	327.54583	9.73266	0.0997670	0.18053735	3.1004495	21	8 30.2	19.0
178480 1999 TJ_{29}	16.7	X	66.04168	164.74671	197.27255	6.10246	0.1305598	0.27949555	2.3167870	21	—	—

ELEMENTS AND OPPOSITION DATES IN 2021

ECLIPTIC AND EQUINOX 2000.0, EPOCH 2021 JULY 5.0 TT

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
178481 1999 TB_{34}	16.7	X	315.71620	75.08427	352.60858	2.63708	0.2037039	0.27080766	2.3660763	21	11 18.1	18.3
178482 1999 TM_{45}	17.0	X	92.74100	63.39688	272.88761	1.42259	0.1834135	0.27966024	2.3158774	21	—	—
178483 1999 TG_{50}	16.8	X	323.62353	349.03800	180.32699	8.03233	0.0732750	0.28646174	2.2790733	21	—	—
178484 1999 TT_{61}	16.8	X	93.90365	293.00023	23.36974	2.62720	0.1787982	0.27692998	2.3310740	21	—	—
178485 1999 TV_{61}	15.5	X	34.07642	117.18939	206.15687	9.92333	0.1306740	0.17993523	3.1073625	21	10 24.5	19.3
178486 1999 TB_{64}	17.5	X	28.78066	69.25618	359.38167	3.35070	0.1424481	0.28230311	2.3014009	21	—	—
178487 1999 TB_{67}	16.9	X	3.11528	61.83297	350.98288	2.36704	0.1605328	0.27517125	2.3409961	21	—	—
178488 1999 TM_{73}	15.3	X	97.42225	265.54200	352.74642	9.04704	0.0561498	0.18189576	3.0849940	21	10 10.5	19.9
178489 1999 TQ_{76}	16.5	X	144.60316	256.03310	33.49956	11.71440	0.1118451	0.27867644	2.3213246	21	—	—
178490 1999 TN_{83}	15.8	X	5.70778	250.10618	40.27652	5.36772	0.1520555	0.17376184	3.1805321	21	7 28.2	19.4
178491 1999 TO_{92}	16.9	X	61.69021	227.84609	175.01368	6.30993	0.1700592	0.28236278	2.3010766	21	—	—
178492 1999 TT_{104}	16.7	X	90.62558	54.73758	301.46956	3.39016	0.1699524	0.28136941	2.3064894	21	—	—
178493 1999 TB_{108}	16.8	X	39.35396	90.01564	291.93268	5.90425	0.1250584	0.27905111	2.3192463	21	—	—
178494 1999 TD_{114}	16.5	X	357.40456	186.70796	187.66651	7.16625	0.2418778	0.27202695	2.3590008	21	12 10.0	18.6
178495 1999 TM_{114}	17.1	X	51.93755	190.13207	179.61185	2.36418	0.2301130	0.27842329	2.3227315	21	—	—
178496 1999 TO_{114}	17.0	X	85.19155	160.13910	190.48386	5.92921	0.2059621	0.28103472	2.3083203	21	—	—
178497 1999 TH_{117}	15.3	X	54.73131	113.85396	205.62812	9.10552	0.2613854	0.18417827	3.0594531	21	12 4.7	19.8
178498 1999 TJ_{124}	16.5	X	113.50671	210.85488	136.67975	3.57796	0.1786338	0.28340436	2.2954352	21	—	—
178499 1999 TK_{125}	16.0	X	341.36280	302.49011	343.53583	4.74913	0.1767756	0.30653759	2.1784465	21	5 19.9	17.6
178500 1999 TB_{130}	15.2	X	328.11824	189.03478	188.90631	11.51175	0.1141006	0.17796358	3.1302711	21	9 16.2	19.0
178501 1999 TQ_{131}	17.0	X	26.70773	213.26390	215.72944	1.79245	0.1311531	0.28132022	2.3067583	21	—	—
178502 1999 TE_{141}	16.9	X	107.22600	327.72492	24.64510	3.59191	0.1929415	0.28217070	2.3021208	21	—	—
178503 1999 TN_{146}	16.7	X	334.17081	18.04919	345.69545	3.83265	0.1920025	0.26766755	2.3845453	21	9 17.7	18.3
178504 1999 TK_{147}	16.8	X	73.26653	254.43157	88.56829	3.55195	0.1781731	0.27844224	2.3226261	21	—	—
178505 1999 TO_{148}	17.0	X	303.56742	76.92539	309.32370	2.14320	0.1311257	0.26575903	2.3959478	21	8 24.7	19.2
178506 1999 TJ_{151}	16.3	X	298.47084	259.11861	51.05525	6.55474	0.1913253	0.30326192	2.1941053	21	4 13.3	19.0
178507 1999 TV_{151}	16.1	X	34.09216	180.72476	177.20098	6.23957	0.1320308	0.27396728	2.3478495	21	12 26.7	19.1
178508 1999 TF_{163}	16.6	X	295.12299	5.22137	66.94565	3.62974	0.1635661	0.26841614	2.3801097	21	10 16.1	18.7
178509 1999 TX_{163}	17.1	X	35.35715	309.48356	89.94281	3.74443	0.1688649	0.27774124	2.3265326	21	—	—
178510 1999 TB_{169}	17.0	X	174.67260	338.85419	330.97212	3.44247	0.1676739	0.28749686	2.2735996	21	—	—
178511 1999 TC_{170}	14.7	X	69.95450	262.14945	19.62276	17.24170	0.1353255	0.17969246	3.1101606	21	10 18.5	19.1
178512 1999 TU_{170}	16.5	X	321.26716	212.90638	204.10261	7.38688	0.1706403	0.27021208	2.3695518	21	11 16.9	18.3
178513 1999 TG_{172}	15.9	X	125.20296	327.47480	74.14511	4.73932	0.1432450	0.24353467	2.5395817	21	2 20.6	19.3
178514 1999 TF_{175}	16.0	X	133.14824	151.82683	262.39958	2.25460	0.0952149	0.24612518	2.5217305	21	3 8.0	19.3
178515 1999 TN_{197}	16.5	X	92.25448	1.78203	0.05836	5.69273	0.1903097	0.28070452	2.3101301	21	—	—
178516 1999 TT_{200}	17.0	X	293.36758	22.05139	309.59871	4.50205	0.2351807	0.30784650	2.1722672	21	4 25.9	19.9
178517 1999 TY_{200}	15.3	X	38.93527	119.46361	182.90374	11.01834	0.1876595	0.18276600	3.0751935	21	10 14.6	19.1
178518 1999 TU_{207}	16.8	X	101.83256	70.77797	322.61993	16.14625	0.0887663	0.37707496	1.8975108	21	—	—
178519 1999 TM_{213}	15.2	X	308.82478	98.94977	249.09061	4.04342	0.1675481	0.17300343	3.1898204	21	6 30.7	19.2
178520 1999 TD_{215}	16.9	X	74.58061	221.68001	184.64658	3.72690	0.1335033	0.28375789	2.2935282	21	—	—
178521 1999 TT_{222}	16.4	X	181.15378	174.50097	144.52824	6.47324	0.2311913	0.28965934	2.2622696	21	1 5.2	20.1
178522 1999 TD_{225}	17.1	X	19.71517	110.41850	338.39385	2.28353	0.1281301	0.28377345	2.2934443	21	—	—
178523 1999 TD_{229}	16.7	X	231.97427	110.91756	183.02181	6.68825	0.1839278	0.29381790	2.2408729	21	1 14.3	20.4
178524 1999 TC_{230}	16.2	X	105.77259	281.22497	65.63058	6.14155	0.1928493	0.28274917	2.2989798	21	—	—
178525 1999 TA_{248}	16.2	X	79.11140	221.04401	105.84519	3.32527	0.2154478	0.27595145	2.3365815	21	—	—
178526 1999 TG_{251}	16.8	X	164.95283	317.66264	337.69852	2.88985	0.1387829	0.24075726	2.5590756	21	—	—
178527 1999 TN_{260}	16.9	X	24.36270	314.59562	24.92489	1.45652	0.2023148	0.27061734	2.3671856	21	11 28.5	19.5
178528 1999 TO_{280}	14.9	X	277.26545	15.76515	353.27707	19.78824	0.1769229	0.17228014	3.1987422	21	6 11.7	19.9
178529 1999 TG_{286}	16.4	X	52.42281	51.52211	336.13664	5.70253	0.1594520	0.27983313	2.3149234	21	—	—
178530 1999 TE_{288}	16.8	X	237.53309	126.14138	193.94214	4.73612	0.1765478	0.29571678	2.2312697	21	2 20.3	20.3
178531 1999 TE_{292}	17.2	X	125.35080	275.68641	48.61190	5.32043	0.1725151	0.28257599	2.2999190	21	—	—
178532 1999 TE_{306}	17.3	X	323.50602	221.25304	225.58321	1.38402	0.1999224	0.27498451	2.3420558	21	—	—
178533 1999 TB_{319}	17.0	X	303.14921	237.52864	42.31509	2.49983	0.1511654	0.29887687	2.2155141	21	3 13.6	19.7
178534 1999 TO_{333}	16.8	X	169.21937	245.88993	22.81962	2.47081	0.1123385	0.23437847	2.6052990	21	—	—
178535 1999 UA	16.3	X	65.58506	125.54816	245.16887	4.44341	0.2394430	0.27889450	2.3201145	21	—	—
178536 1999 UV_{10}	16.5	X	28.88254	69.92978	34.35856	21.56180	0.0886413	0.37005894	1.9214192	21	—	—
178537 1999 UD_{16}	17.0	X	55.83076	82.33492	263.01807	1.69199	0.2779055	0.27619258	2.3352213	21	—	—
178538 1999 UN_{27}	15.7	X	67.72634	43.67397	188.32699	14.97745	0.0665616	0.17403662	3.1771835	21	8 1.8	20.4
178539 1999 UJ_{34}	17.0	X	240.08867	120.64953	39.75787	3.48448	0.1491714	0.27190133	2.3597274	21	11 24.1	19.8
178540 1999 UC_{37}	16.7	X	233.14201	257.39603	24.72301	8.65397	0.1118380	0.29134968	2.2535110	21	1 3.1	20.1
178541 1999 UN_{46}	14.8	X	19.11616	321.06914	2.91446	10.20769	0.2194396	0.17774603	3.1328248	21	10 11.4	18.4
178542 1999 UO_{56}	15.8	X	116.18845	90.99693	335.07689	6.08857	0.0939732	0.24519147	2.5281285	21	3 2.9	19.1
178543 1999 VP_{1}	16.8	X	17.75781	314.89318	33.94453	7.36928	0.1321943	0.27173256	2.3607043	21	11 18.9	19.4
178544 1999 VT_{17}	17.1	X	323.66911	87.76331	355.25429	1.94885	0.1833042	0.27258798	2.3557629	21	—	—
178545 1999 VN_{19}	16.3	X	114.45980	280.70169	150.18172	3.32928	0.1365455	0.24447938	2.5330352	21	3 14.6	19.6
178546 1999 VK_{34}	15.8	X	92.45259	180.19137	247.58214	14.23715	0.0846335	0.23992890	2.5649624	21	1 26.3	19.2
178547 1999 VR_{39}	16.9	X	336.49809	91.27771	14.54809	6.83441	0.0571576	0.28121256	2.3073470	21	—	—
178548 1999 VN_{55}	16.4	X	277.89854	248.66167	212.42924	0.79685	0.0866723	0.26941833	2.3742036	21	11 7.3	19.0
178549 1999 VE_{64}	15.6	X	126.62370	6.73816	56.81198	5.87107	0.0326782	0.24575578	2.5242569	21	3 7.6	18.9
178550 1999 VK_{78}	16.3	X	82.06176	48.30553	344.40601	2.80035	0.2184832	0.28303914	2.2974093	21	—	—
178551 1999 VO_{79}	17.2	X	99.74772	66.10231	33.55138	21.79909	0.1246679	0.38276180	1.8786693	21	3 21.2	19.0
178552 1999 VD_{82}	16.5	X	176.90643	133.88673	201.98148	3.36970	0.1728415	0.29028230	2.2590318	21	1 16.9	19.7
178553 1999 VU_{103}	17.2	X	354.02872	302.98954	59.14279	1.01028	0.2085630	0.26824902	2.3810981	21	11 6.1	18.9
178554 1999 VT_{105}	16.8	X	227.17684	63.07554	63.81257	4.13187	0.1645085	0.26324123	2.4112011	21	9 24.1	20.2
178555 1999 VM_{125}	15.8	X	55.16296	262.39895	40.67580	1.32616	0.1677509	0.17860498	3.1227724	21	11 1.4	20.2
178556 1999 VM_{132}	16.8	X	346.61007	255.07792	105.87962	2.31503	0.1975241	0.26692141	2.3889870	21	10 17.1	18.4
178557 1999 VY_{135}	16.0	X	264.23517	205.90695	40.21590	25.36510	0.1372126	0.28791077	2.2714200	21	—	—
178558 1999 VE_{136}	16.1	X	236.54708	272.73918	37.02542	2.29200	0.0675976	0.24626697	2.5207625	21	2 19.7	19.6
178559 1999 VR_{143}	16.8	X	48.79352	33.01420	346.44477	2.66347	0.1908019	0.27717938	2.3296755	21	—	—
178560 1999 VS_{143}	16.6	X	322.86436	144.85259	254.52546	4.13219	0.2308177	0.26794284	2.3829117	21	10 16.0	18.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
178561 1999 VQ_{159}	16.9	X	345.71543	66.58707	3.71264	2.92581	0.2266570	0.27369056	2.3494318	21	—	—
178562 1999 VP_{160}	16.6	X	144.63158	66.94770	331.62734	1.86303	0.1227663	0.24573220	2.5244184	21	3 5.8	20.3
178563 1999 VK_{167}	17.1	X	338.65946	80.51559	346.15182	0.96785	0.1609502	0.27146090	2.3622790	21	—	—
178564 1999 VG_{175}	16.9	X	269.17387	12.35933	77.16510	4.92547	0.0918521	0.26540061	2.3981045	21	10 9.7	19.7
178565 1999 VX_{176}	16.7	X	88.03541	195.53490	171.34611	5.89986	0.1504544	0.28113808	2.3077545	21	—	—
178566 1999 VK_{182}	16.3	X	241.38308	219.70017	52.94344	8.34397	0.1051155	0.28651479	2.2787920	21	—	—
178567 1999 VL_{187}	16.5	X	313.52818	173.85843	207.27175	6.28284	0.1251359	0.26439557	2.4041779	21	9 3.1	18.9
178568 1999 VV_{207}	17.1	X	287.89491	252.72197	196.93672	2.05314	0.1268184	0.26781739	2.3836557	21	11 1.8	19.6
178569 1999 VK_{211}	16.4	X	156.68664	320.17886	30.73429	7.88979	0.1461705	0.28742811	2.2739621	21	1 15.0	19.6
178570 1999 VS_{212}	16.3	X	186.83443	178.05542	59.19516	8.48706	0.0742212	0.27436654	2.3455712	21	—	—
178571 1999 WD_{6}	16.1	X	133.37185	303.31968	68.54335	13.55883	0.1967693	0.24084836	2.5584303	21	2 1.3	20.0
178572 1999 WM_{10}	15.8	X	93.74614	103.54126	206.64504	14.56295	0.2446287	0.18745556	3.0236893	21	12 26.1	21.1
178573 1999 WD_{17}	17.1	X	251.71799	97.37026	207.46100	3.78279	0.1851291	0.29684767	2.2255992	21	2 13.5	20.7
178574 1999 WD_{26}	16.9	X	255.59907	57.44093	85.93084	3.41014	0.1634695	0.26880895	2.3777904	21	11 20.6	19.7
178575 1999 XO	17.3	X	107.35132	239.96435	80.94270	3.92348	0.1714513	0.27708347	2.3302131	21	—	—
178576 1999 XR_{5}	16.9	X	338.52414	330.08196	86.27796	3.44078	0.2027113	0.27052509	2.3677237	21	12 27.1	18.6
178577 1999 XB_{29}	16.8	X	216.08104	281.77314	171.63312	2.58783	0.1478304	0.25798739	2.4438266	21	7 28.3	20.4
178578 1999 XV_{42}	16.5	X	172.38073	136.03372	237.65353	1.93444	0.1772767	0.24615612	2.5215193	21	3 6.7	20.6
178579 1999 XV_{51}	17.1	X	71.19304	334.77437	65.28552	3.94537	0.2148262	0.28067378	2.3102988	21	—	—
178580 1999 XK_{59}	16.5	X	25.69448	107.18066	242.15758	1.65653	0.2097764	0.26999343	2.3708310	21	12 15.3	19.1
178581 1999 XC_{66}	16.2	X	331.85720	126.80467	245.13823	4.00081	0.2158354	0.26510355	2.3998956	21	9 22.2	18.0
178582 1999 XX_{114}	16.1	X	80.38474	8.18818	352.97877	10.64668	0.2067286	0.27903951	2.3193106	21	—	—
178583 1999 XD_{129}	16.3	X	73.26515	79.06271	7.54729	6.27294	0.1542615	0.23922868	2.5699651	21	2 8.1	19.0
178584 1999 XL_{166}	16.4	X	288.22421	143.51548	275.65880	9.09583	0.2709244	0.26434968	2.4044561	21	8 18.5	19.2
178585 1999 XQ_{212}	16.6	X	311.50356	308.70536	106.79681	11.97954	0.2369239	0.26699768	2.3885320	21	10 22.0	18.6
178586 1999 XO_{219}	16.2	X	53.08479	339.22088	110.67433	2.81226	0.1456689	0.23402765	2.6079020	21	1 4.7	18.9
178587 1999 XA_{225}	17.0	X	255.22070	133.18462	322.52599	0.99494	0.1144133	0.26010273	2.4305587	21	9 20.9	20.1
178588 1999 XC_{225}	16.8	X	36.96436	5.80479	296.70448	3.78339	0.0268058	0.25837488	2.4413827	21	9 24.9	19.8
178589 1999 YJ_{3}	17.0	X	114.10492	69.55463	10.60643	18.89648	0.0946820	0.37874183	1.8919393	21	3 4.6	18.8
178590 1999 YO_{23}	17.4	X	261.43098	269.80260	185.11727	2.17666	0.1685994	0.26387024	2.4073677	21	9 20.3	20.4
178591 2000 AQ_{30}	15.7	X	92.59710	100.80194	304.59486	13.95251	0.1011497	0.23403635	2.6078374	21	1 7.4	18.8
178592 2000 AU_{42}	16.6	X	261.86343	182.19293	299.64443	18.27079	0.0624286	0.35449915	1.9772394	21	12 4.4	18.7
178593 2000 AX_{104}	16.5	X	112.47347	317.11110	107.44629	5.46121	0.2418399	0.24123631	2.5556866	21	3 21.5	20.1
178594 2000 AO_{242}	17.1	X	12.55001	327.89409	124.71207	24.11438	0.0798803	0.36532181	1.9379935	21	—	—
178595 2000 AU_{250}	16.9	X	291.29600	330.79346	86.34890	2.84194	0.1751016	0.26326411	2.4110615	21	9 13.4	19.3
178596 2000 BF_{6}	15.9	X	20.78640	22.42048	64.14394	16.03593	0.1368106	0.22945361	2.6424460	21	—	—
178597 2000 BF_{9}	16.8	X	234.39786	216.42444	248.80794	0.74235	0.1436842	0.25711777	2.4493339	21	9 2.9	20.4
178598 2000 BH_{28}	16.8	X	246.20163	335.36449	121.27075	6.13014	0.1422522	0.25773778	2.4454042	21	9 8.4	20.1
178599 2000 CK_{37}	16.4	X	242.09232	161.41295	299.97312	5.28373	0.0819332	0.25800688	2.4437036	21	9 13.6	19.6
178600 2000 CX_{50}	15.8	X	75.49261	339.77478	154.11267	13.88257	0.1847230	0.23848173	2.5753285	21	4 26.8	19.1
178601 2000 CG_{59}	17.6	X	212.66709	29.56438	28.64097	4.17862	0.4922605	0.25352155	2.4724421	21	5 28.2	22.7
178602 2000 CT_{78}	16.5	X	144.90243	73.52328	176.67974	2.56313	0.0410009	0.21617166	2.7496044	21	11 30.0	20.5
178603 Pinkine	16.5	X	80.25705	13.34188	313.30389	1.21973	0.2263629	0.26548003	2.3976262	21	—	—
178604 2000 CE_{139}	15.9	X	13.75774	143.93266	189.55721	1.99208	0.1994601	0.25446180	2.4663478	21	10 29.5	18.2
178605 2000 DA_{17}	16.5	X	24.82448	93.98216	158.64357	17.41345	0.1400638	0.24393019	2.5368357	21	7 8.3	19.5
178606 2000 DR_{55}	17.1	X	138.69944	120.50941	346.13090	8.09738	0.1921771	0.24381241	2.5376527	21	5 31.6	21.2
178607 2000 DT_{56}	16.0	X	282.54683	137.03707	162.40938	12.37930	0.1700792	0.23662908	2.5887532	21	3 20.8	19.7
178608 2000 DJ_{70}	15.4	X	38.24624	58.56707	351.16115	12.82225	0.1398870	0.22265539	2.6959629	21	—	—
178609 2000 DH_{80}	16.0	X	199.58159	177.85722	350.25492	10.79924	0.1815083	0.25868264	2.4394459	21	10 11.3	20.0
178610 2000 EX_{5}	17.3	X	117.34574	60.59579	355.60510	19.99375	0.0783273	0.37034780	1.9204199	21	1 30.1	19.4
178611 2000 ER_{55}	17.3	X	96.87340	231.85972	170.33389	23.17702	0.0816630	0.36688032	1.9325012	21	—	—
178612 2000 EQ_{74}	16.7	X	241.75142	98.47100	339.08431	5.54950	0.0152249	0.25294303	2.4762106	21	8 23.8	19.9
178613 2000 EF_{78}	17.1	X	66.30237	57.30985	148.33322	11.89506	0.1978623	0.24364170	2.5388379	21	7 20.5	20.3
178614 2000 EZ_{114}	16.7	X	180.20194	121.41183	329.11559	2.73275	0.0875329	0.24565329	2.5249590	21	6 18.6	20.3
178615 2000 EL_{119}	16.3	X	38.81315	124.49347	96.55657	8.72064	0.1770111	0.24211296	2.5495138	21	6 22.8	18.8
178616 2000 EN_{140}	16.7	X	6.82796	283.95405	334.31568	8.66351	0.1500025	0.24327786	2.5413686	21	6 9.5	19.3
178617 2000 EB_{153}	16.5	X	127.67232	308.35835	164.05802	12.15765	0.2048227	0.24216553	2.5491448	21	6 2.1	20.7
178618 2000 EQ_{168}	17.1	X	350.32427	128.13843	11.00245	19.35620	0.0710188	0.36565474	1.9368170	21	—	—
178619 2000 FT	17.2	X	91.25518	136.61248	359.13379	20.03076	0.0833308	0.37866930	1.8921809	21	4 7.5	18.8
178620 2000 FY_{14}	16.6	X	168.36834	126.69754	176.51891	25.31586	0.0815114	0.35884428	1.9612458	21	—	—
178621 2000 FG_{33}	16.8	X	17.33857	71.89351	151.01560	5.61707	0.2032216	0.23701156	2.5859673	21	5 12.2	19.0
178622 2000 FY_{38}	15.9	X	163.58886	176.66197	58.48448	5.06720	0.1396261	0.21069548	2.7970436	21	11 28.4	20.4
178623 2000 FW_{69}	17.0	X	143.85642	278.66826	171.15964	2.45783	0.1781553	0.23936857	2.5689637	21	5 16.4	20.9
178624 2000 FY_{70}	16.3	X	199.63856	70.86079	294.03427	1.14714	0.0922253	0.23291205	2.6162229	21	3 20.9	20.2
178625 2000 GH_{35}	15.5	X	15.98060	68.53685	13.93902	6.86237	0.0548857	0.21969439	2.7201325	21	—	—
178626 2000 GT_{68}	16.3	X	354.69212	245.11508	46.83648	5.23100	0.0736818	0.24092809	2.5578658	21	7 9.9	19.2
178627 2000 GU_{82}	16.7	X	77.20601	114.71318	7.61923	20.15461	0.0670898	0.37271020	1.9122963	21	3 4.5	18.4
178628 2000 GZ_{115}	16.4	X	70.22345	45.84459	179.14745	7.99840	0.1898891	0.24335410	2.5408378	21	8 20.0	19.8
178629 2000 GV_{141}	16.0	X	321.09051	119.12407	73.54259	13.71858	0.1246648	0.22589325	2.6701391	21	—	—
178630 2000 GO_{153}	16.6	X	57.28659	228.04108	327.66509	6.33923	0.2027096	0.23955812	2.5676084	21	6 23.7	19.5
178631 2000 HW_{11}	16.1	X	335.87026	36.01396	227.82270	7.99082	0.1253389	0.23417192	2.6068308	21	4 20.8	19.0
178632 2000 HD_{31}	16.2	X	44.30248	25.60974	215.98134	5.73327	0.1071048	0.24199140	2.5503675	21	7 21.5	19.2
178633 2000 HF_{33}	15.8	X	353.73416	137.66464	153.49434	15.39597	0.2456896	0.23763005	2.5814783	21	6 30.9	18.0
178634 2000 HP_{81}	16.7	X	317.45107	92.32643	69.15541	22.83300	0.0804299	0.36118901	1.9527487	21	—	—
178635 2000 HL_{89}	15.9	X	298.77062	226.13609	46.99562	13.26516	0.1353697	0.22971294	2.6404569	21	3 17.5	19.7
178636 2000 JE_{6}	16.3	X	170.72786	114.69052	161.51218	27.48892	0.0750922	0.35372792	1.9801123	21	—	—
178637 2000 JK_{19}	16.6	X	48.82555	103.82853	171.18719	12.28228	0.2445352	0.24369097	2.5384957	21	10 10.9	19.8
178638 2000 JM_{20}	16.4	X	40.29400	18.85219	246.60210	4.68824	0.2486980	0.24176601	2.5519523	21	9 10.5	19.3
178639 2000 JU_{38}	16.1	X	327.44018	204.98009	46.22357	14.39070	0.2083439	0.23037925	2.6353632	21	3 17.3	19.5
178640 2000 JD_{47}	16.4	X	7.17343	243.39402	26.16706	13.44935	0.1829990	0.23773177	2.5807419	21	7 1.1	19.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
178641 2000 JZ_{69}	15.6	X	291.95374	155.12403	139.35913	14.44404	0.2475458	0.22874206	2.6479230	21	3 18.1	19.6
178642 2000 JC_{71}	15.5	X	231.74419	299.33358	263.71625	8.88073	0.1692038	0.21682534	2.7440753	21	12 25.1	19.3
178643 2000 JE_{94}	15.7	X	331.98927	161.62294	127.48777	14.45047	0.1527080	0.23424105	2.6063179	21	5 23.1	18.9
178644 2000 KO_{12}	16.3	X	6.72390	214.18952	64.30842	5.14647	0.1282928	0.23846099	2.5754778	21	7 12.4	18.9
178645 2000 KD_{25}	15.7	X	26.56693	7.52103	200.39020	17.09130	0.1884793	0.23397215	2.6083144	21	5 9.6	18.1
178646 2000 KW_{39}	16.4	X	311.89121	218.96355	41.78266	6.24881	0.0920873	0.23073012	2.6326908	21	3 20.4	19.8
178647 2000 KD_{44}	16.8	X	71.64176	120.46118	77.15908	0.30775	0.1155569	0.23897025	2.5718175	21	7 4.2	20.0
178648 2000 KQ_{54}	15.4	X	345.43914	115.43538	127.96338	15.14671	0.0890613	0.23201683	2.6229483	21	4 20.8	18.8
178649 2000 KQ_{65}	15.6	X	60.18437	74.22211	197.45827	16.92551	0.1844549	0.24359850	2.5391380	21	10 9.8	19.0
178650 2000 LZ_{10}	16.6	X	322.59376	80.25611	175.43524	7.72050	0.2430700	0.22881181	2.6473849	21	3 1.8	19.9
178651 2000 NS_{4}	15.5	X	190.68297	166.29858	128.17732	15.98167	0.1747639	0.21236646	2.7823521	21	—	—
178652 2000 NF_{7}	15.8	X	53.79348	189.57869	259.62705	5.36472	0.0531418	0.21365764	2.7711313	21	1 6.4	19.2
178653 2000 OZ_{19}	15.8	X	177.99009	85.13833	200.25298	7.69252	0.2153338	0.20988325	2.8042552	21	—	—
178654 2000 OW_{26}	14.3	X	351.34489	314.39215	304.20768	16.31593	0.2345792	0.18241410	3.0791471	21	4 30.6	17.9
178655 2000 PO_{29}	15.1	X	208.92051	272.81831	40.06797	7.50716	0.3068335	0.21478734	2.7614060	21	2 1.8	20.3
178656 2000 QV_{18}	15.4	X	0.41028	7.86297	336.41965	9.97190	0.1103214	0.19008848	2.9957037	21	9 25.1	19.0
178657 2000 QZ_{18}	15.8	X	355.65295	274.62142	84.67455	0.62914	0.2641890	0.19013508	2.9952142	21	10 21.5	18.5
178658 2000 QV_{34}	14.5	X	306.30122	268.90127	8.82278	22.59239	0.3261073	0.22406809	2.6846193	21	3 7.5	18.6
178659 2000 QB_{40}	15.5	X	204.98875	326.30589	332.51826	8.40978	0.2415396	0.21343785	2.7730333	21	1 12.8	20.4
178660 2000 QQ_{57}	15.9	X	276.62032	318.34104	341.42190	6.80882	0.2478532	0.22310809	2.6923148	21	3 6.5	20.3
178661 2000 QC_{65}	15.2	X	293.66801	259.06012	26.17773	11.66940	0.2666646	0.22245909	2.6975486	21	3 8.3	19.3
178662 2000 QP_{74}	15.2	X	241.05147	296.28720	334.12017	15.01951	0.2651018	0.21493991	2.7600991	21	1 6.9	20.3
178663 2000 QA_{86}	15.7	X	289.43049	44.79889	316.34980	10.28286	0.2702551	0.18209879	3.0827005	21	6 3.7	20.3
178664 2000 QR_{99}	15.3	X	103.24238	315.49061	27.65911	8.73284	0.1637114	0.20170927	2.8795115	21	—	—
178665 2000 QF_{104}	14.9	X	243.37243	333.99508	36.21874	15.62677	0.2589129	0.17542687	3.1603751	21	5 2.9	20.3
178666 2000 QT_{135}	15.3	X	258.95379	0.17662	0.70691	13.38558	0.2600035	0.17845238	3.1245524	21	5 1.1	20.6
178667 2000 QW_{137}	14.9	X	274.16026	21.06245	5.67958	16.72811	0.1084511	0.18097635	3.0954337	21	7 16.8	19.6
178668 2000 QL_{148}	15.0	X	57.29701	341.05808	332.54680	9.31216	0.0650790	0.19233637	2.9723168	21	10 31.4	19.3
178669 2000 QG_{149}	15.7	X	57.81473	124.21890	199.34103	4.52402	0.1313432	0.19418186	2.9534545	21	11 27.5	19.8
178670 2000 QN_{159}	15.2	X	207.72620	101.99205	185.93461	10.92253	0.2318684	0.21219112	2.7838847	21	—	—
178671 2000 QS_{171}	16.1	X	229.95961	52.01204	230.26873	3.82579	0.1955513	0.21291574	2.7775649	21	1 10.7	20.8
178672 2000 QS_{178}	15.0	X	195.72763	253.23729	162.37883	26.24909	0.2348895	0.17505499	3.1648494	21	5 26.4	20.9
178673 2000 QG_{185}	15.9	X	180.33533	317.16071	358.18277	8.73757	0.2813956	0.21151680	2.7897983	21	1 16.2	20.9
178674 2000 QR_{187}	15.9	X	181.03996	325.76779	352.50741	13.34735	0.1981193	0.21121144	2.7924865	21	1 17.5	20.7
178675 2000 QB_{200}	16.1	X	76.89376	310.66535	56.79811	3.51306	0.2371085	0.20109084	2.8854122	21	—	—
178676 2000 QT_{221}	15.7	X	253.26895	277.15162	350.18859	14.74471	0.2582722	0.21733020	2.7398240	21	1 12.7	20.7
178677 2000 QJ_{227}	16.3	X	248.30736	113.81165	174.32912	14.68717	0.2737466	0.21733742	2.7397633	21	1 26.6	21.3
178678 2000 QW_{231}	15.2	X	343.87867	244.25234	150.74572	11.27758	0.1211443	0.19200273	2.9757592	21	11 11.6	18.9
178679 Piquette	16.6	X	242.94542	162.61854	239.45657	0.24986	0.1806385	0.18092724	3.0959938	21	6 17.2	21.3
178680 2000 RB_{9}	15.5	X	23.67166	217.86627	93.92681	10.93241	0.0797317	0.18759241	3.0222186	21	9 24.8	19.6
178681 2000 RF_{17}	15.3	X	299.66520	48.94868	299.58270	9.58641	0.2265200	0.18181473	3.0859106	21	6 8.2	19.4
178682 2000 RV_{32}	15.2	X	286.99327	41.97692	345.05202	13.21977	0.2284118	0.18126556	3.0921403	21	7 14.4	19.7
178683 2000 RQ_{84}	15.3	X	358.77427	338.94562	340.73072	15.65080	0.0899317	0.18566781	3.0430679	21	8 24.2	19.0
178684 2000 RP_{87}	15.5	X	298.38033	4.42426	344.33585	5.85873	0.2516125	0.18117007	3.0932266	21	6 1.9	19.8
178685 2000 RB_{94}	15.9	X	322.46504	145.15470	253.81151	3.30214	0.1813073	0.18809645	3.0168172	21	9 30.5	19.3
178686 2000 ST_{10}	15.0	X	156.55546	115.44242	5.77916	16.61459	0.2015004	0.17336700	3.1853594	21	7 11.1	20.6
178687 2000 SX_{15}	15.1	X	284.55958	228.62377	199.48559	10.51597	0.0945841	0.18707205	3.0278204	21	9 18.3	19.2
178688 2000 SQ_{16}	14.9	X	302.80087	153.82577	247.18716	9.69711	0.1220552	0.18546239	3.0453145	21	9 2.3	19.1
178689 2000 SL_{18}	15.0	X	252.33831	88.40679	318.21919	9.96256	0.1915090	0.17883435	3.1201017	21	7 2.3	19.9
178690 2000 SY_{26}	15.5	X	256.42039	72.56832	339.17436	16.34178	0.2159301	0.18088328	3.0964954	21	7 12.8	20.5
178691 2000 SB_{27}	15.0	X	28.36840	129.83601	242.52279	10.97789	0.0708905	0.19491502	2.9460436	21	12 11.2	19.0
178692 2000 SV_{28}	14.7	X	198.00863	120.13549	338.95207	14.65979	0.2103888	0.17458366	3.1705430	21	7 18.4	20.2
178693 2000 SD_{31}	15.4	X	272.12462	249.28882	171.56718	5.35330	0.2262945	0.18254152	3.0777141	21	8 4.3	19.7
178694 2000 SC_{42}	15.4	X	235.03341	260.24400	176.70602	22.40047	0.2103907	0.17959092	3.1113328	21	7 17.8	20.8
178695 2000 SH_{55}	15.2	X	67.75439	298.30805	0.53598	10.86344	0.1289243	0.19243452	2.9713061	21	11 4.2	19.5
178696 2000 SB_{58}	14.8	X	201.05700	42.36344	170.36280	9.77801	0.0273200	0.19615117	2.9336532	21	12 16.1	19.1
178697 2000 SF_{60}	15.4	X	114.89194	87.15779	220.13893	1.10753	0.0800116	0.19836818	2.9117542	21	—	—
178698 2000 SP_{66}	15.3	X	98.73289	20.24817	304.93307	0.89542	0.0735099	0.19790695	2.9162764	21	—	—
178699 2000 SS_{71}	15.7	X	229.88563	231.85199	187.21883	14.09738	0.2906431	0.17589932	3.1547136	21	6 18.2	21.4
178700 2000 SR_{88}	15.0	X	86.51869	168.95283	173.15956	12.17356	0.0629910	0.19634724	2.9317000	21	—	—
178701 2000 SY_{93}	15.1	X	252.21945	60.93304	335.77040	15.04354	0.1170100	0.17947800	3.1126377	21	6 29.3	19.9
178702 2000 SY_{100}	15.1	X	290.88049	15.65896	352.21202	17.41307	0.2174801	0.17908463	3.1171940	21	6 24.2	19.8
178703 2000 ST_{121}	15.3	X	311.46995	8.26270	44.81310	11.27701	0.2056143	0.18496160	3.0508088	21	10 2.2	18.8
178704 2000 SB_{133}	14.8	X	333.03203	183.50263	230.94524	12.55460	0.0835553	0.19273957	2.9681701	21	11 15.5	18.4
178705 2000 ST_{143}	15.0	X	195.25987	275.69947	189.81613	19.45235	0.2078480	0.17698744	3.1417702	21	7 17.4	20.7
178706 2000 SK_{168}	15.3	X	327.09351	68.47016	261.89119	5.64681	0.2099927	0.18157479	3.0886286	21	7 1.9	18.7
178707 2000 SW_{183}	15.7	X	37.57303	271.54791	86.83187	2.21477	0.0978155	0.19490316	2.9461632	21	12 9.8	19.7
178708 2000 SD_{195}	15.5	X	275.12442	38.73841	358.83918	9.28987	0.0964945	0.18251917	3.0779653	21	8 1.4	19.9
178709 2000 SO_{201}	15.5	X	301.56029	76.88792	5.20023	10.23622	0.0970047	0.19101735	2.9859842	21	10 29.8	19.4
178710 2000 SS_{207}	15.1	X	324.97608	188.85243	189.71257	10.68420	0.0595719	0.18485554	3.0519757	21	9 16.4	19.1
178711 2000 SL_{209}	15.3	X	308.02209	25.36133	35.49662	16.73017	0.1039468	0.18813111	3.0164465	21	10 16.9	19.0
178712 2000 SN_{220}	15.3	X	292.57235	204.83145	170.76200	14.76902	0.1795160	0.18024033	3.1038548	21	7 10.2	19.7
178713 2000 SG_{230}	15.8	X	326.41516	199.12423	152.02630	0.96595	0.2845917	0.18299880	3.0725849	21	7 19.7	18.8
178714 2000 SJ_{235}	16.1	X	200.97336	120.75663	173.68350	7.74873	0.2068983	0.21045687	2.7991574	21	1 2.5	21.0
178715 2000 SX_{236}	15.4	X	33.59867	154.96240	192.50805	9.82701	0.1229403	0.19070149	2.9892805	21	11 24.9	19.4
178716 2000 SW_{245}	15.6	X	87.92946	339.75903	8.65658	9.21105	0.0685531	0.20020406	2.8939262	21	—	—
178717 2000 SA_{260}	14.8	X	270.11207	358.57883	47.29765	18.06145	0.1250401	0.17939643	3.1135812	21	8 4.4	19.6
178718 2000 SQ_{260}	15.4	X	306.67774	215.61716	203.35697	8.69745	0.0809404	0.18769220	3.0211473	21	10 11.5	19.3
178719 2000 SV_{262}	15.3	X	286.22850	220.76835	117.17754	6.15310	0.2645815	0.17830975	3.1262185	21	5 6.2	19.9
178720 2000 SE_{263}	15.1	X	302.59019	32.22909	32.89555	10.40083	0.0565286	0.18914797	3.0056259	21	10 17.6	19.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
178721 2000 SZ_{264}	17.2	X	66.10668	306.23576	48.02039	4.93617	0.1207233	0.29180107	2.2511865	21	—	—
178722 2000 SL_{268}	14.6	X	181.75430	109.95056	33.26418	26.86702	0.1490611	0.17886027	3.1198003	21	9 9.4	20.1
178723 2000 SM_{272}	15.3	X	277.57107	39.76059	8.10117	10.47284	0.0945107	0.18153803	3.0890455	21	8 19.1	19.6
178724 2000 SW_{297}	15.5	X	264.82294	100.14869	315.98002	7.29792	0.1719979	0.18079402	3.0975144	21	7 29.8	19.9
178725 2000 SG_{298}	15.3	X	291.67171	156.45677	223.96377	8.00892	0.0969729	0.18152184	3.0892292	21	7 26.6	19.6
178726 2000 SZ_{298}	15.3	X	234.05042	45.15686	341.17583	9.71428	0.2047418	0.17465273	3.1697071	21	5 16.0	20.6
178727 2000 SA_{300}	15.3	X	297.93959	191.59492	212.09244	11.58803	0.0900468	0.18439616	3.0570424	21	9 3.9	19.4
178728 2000 SQ_{306}	14.9	X	63.26483	16.47845	322.27360	9.55146	0.0506075	0.19357575	2.9596163	21	12 10.1	19.2
178729 2000 SP_{311}	14.3	X	212.96925	185.69131	233.76309	27.05128	0.1550586	0.17626843	3.1503081	21	6 10.1	19.6
178730 2000 ST_{322}	15.3	X	236.84927	109.21203	356.87710	13.67845	0.1994522	0.18335874	3.0685625	21	8 30.5	20.1
178731 2000 SM_{340}	15.8	X	213.55199	148.03577	134.84503	6.10101	0.1235570	0.21035193	2.8000882	21	—	—
178732 2000 SJ_{351}	15.1	X	217.50904	219.14492	78.79342	13.98058	0.1809915	0.21158580	2.7891918	21	1 21.1	19.9
178733 2000 SP_{359}	15.1	X	37.81764	31.97154	278.26140	10.02003	0.1092508	0.18791568	3.0187516	21	10 5.8	19.2
178734 2000 TB_{2}	14.9	X	261.54835	178.10803	227.01614	9.94356	0.2189660	0.17768985	3.1334851	21	7 4.2	19.9
178735 2000 TN_{13}	15.9	X	279.46963	120.45805	287.56024	0.41711	0.1610557	0.18111472	3.0938569	21	8 7.7	20.1
178736 2000 TH_{21}	15.0	X	298.03851	304.32226	74.92756	11.43679	0.1153027	0.18185499	3.0854552	21	8 6.2	19.2
178737 2000 TG_{23}	15.6	X	215.56211	41.11759	61.04759	2.25177	0.2415095	0.17718984	3.1393772	21	7 31.9	20.9
178738 2000 TG_{29}	14.4	X	260.60092	153.57630	246.28981	16.28635	0.2049494	0.17703884	3.1411621	21	6 28.0	19.3
178739 2000 TT_{37}	15.2	X	235.78234	263.93514	148.29261	22.56066	0.2565181	0.17826937	3.1266905	21	6 19.5	20.8
178740 2000 TG_{46}	15.4	X	96.25058	2.85497	197.36345	10.24039	0.0213417	0.18017728	3.1045789	21	7 23.1	20.0
178741 2000 TK_{49}	16.3	X	346.37101	107.09603	159.84126	5.24640	0.3429682	0.22787098	2.6546669	21	4 15.7	18.4
178742 2000 TF_{51}	15.1	X	300.27608	304.28617	95.51395	10.94276	0.1035639	0.18282910	3.0744859	21	9 9.3	19.2
178743 2000 TF_{66}	15.7	X	270.26027	262.25420	158.80243	2.16815	0.1591918	0.18055514	3.1002459	21	8 12.6	20.1
178744 2000 UK_{33}	15.3	X	290.16769	54.02768	354.76828	10.45095	0.0798324	0.18265628	3.0764248	21	9 6.1	19.3
178745 2000 UF_{35}	14.9	X	242.16688	12.72677	31.80732	9.69000	0.0878837	0.17557903	3.1585490	21	6 29.4	19.7
178746 2000 UL_{48}	14.6	X	309.86121	280.21787	58.75647	17.02394	0.1062240	0.17579548	3.1559558	21	6 28.5	18.9
178747 2000 UT_{69}	15.4	X	339.31223	328.59284	26.72136	10.30187	0.1367647	0.18277104	3.0751370	21	9 10.4	19.0
178748 2000 UL_{83}	15.6	X	218.59994	272.43712	150.81546	6.02014	0.1700564	0.17397512	3.1779321	21	6 21.3	20.8
178749 2000 UO_{86}	15.0	X	200.92294	351.75329	202.71389	9.38250	0.0194166	0.18973905	2.9993805	21	11 23.9	19.3
178750 2000 UO_{101}	14.9	X	270.54100	41.96023	8.18052	9.19710	0.0707866	0.17894514	3.1188138	21	8 15.7	19.3
178751 2000 UE_{113}	16.0	X	26.60795	36.89010	326.81085	0.29281	0.1118073	0.19113069	2.9848036	21	12 2.7	19.7
178752 2000 VO_{2}	14.7	X	106.50940	149.65961	28.97986	28.24345	0.1359023	0.17186970	3.2038328	21	8 6.8	20.1
178753 2000 VN_{5}	16.8	X	261.70952	5.45219	31.61811	5.39051	0.1504464	0.27289964	2.3539690	21	7 4.8	20.1
178754 2000 VD_{14}	14.9	X	135.70018	328.37914	219.06771	8.84259	0.0259389	0.17843147	3.1247966	21	8 24.2	19.5
178755 2000 VL_{42}	15.4	X	322.24968	99.00910	259.18186	4.17638	0.1812397	0.18135956	3.0910718	21	8 3.6	19.1
178756 2000 VW_{42}	15.2	X	286.77240	36.77379	29.80791	10.79846	0.1056667	0.18272709	3.0756300	21	9 23.1	19.3
178757 2000 VA_{44}	15.4	X	336.43280	317.82636	25.94743	8.64863	0.1551592	0.18091259	3.0961609	21	8 18.5	19.0
178758 2000 VL_{45}	17.1	X	141.94448	30.26939	310.42216	5.05518	0.2693425	0.29903072	2.2147541	21	—	—
178759 2000 VC_{51}	15.1	X	347.01726	313.97193	19.12951	10.94284	0.0549188	0.17988968	3.1078870	21	8 26.2	19.3
178760 2000 VQ_{64}	15.6	X	240.47984	241.01480	144.88604	5.08919	0.1856819	0.17249551	3.1960792	21	5 27.0	20.7
178761 2000 WW_{3}	15.1	X	324.41245	50.96099	322.31740	10.27199	0.1078140	0.18163536	3.0879419	21	9 3.7	18.9
178762 2000 WN_{4}	15.7	X	286.88986	68.14327	313.34226	7.54542	0.1601433	0.17858544	3.1230002	21	7 15.1	19.8
178763 2000 WF_{5}	16.8	X	359.97074	136.61901	291.90521	6.35351	0.0744669	0.28802057	2.2708427	21	—	—
178764 2000 WM_{14}	15.2	X	277.32960	320.52231	31.70267	5.23251	0.1661638	0.17298155	3.1900895	21	5 24.2	19.9
178765 2000 WT_{14}	17.2	X	254.87261	26.66302	341.51341	1.82844	0.1334214	0.31481101	2.1401100	21	5 15.7	20.1
178766 2000 WP_{25}	16.8	X	119.10275	106.87816	279.07433	2.12844	0.1938667	0.29891533	2.2153240	21	1 16.6	18.9
178767 2000 WV_{45}	15.6	X	317.49724	268.27367	111.46886	4.49028	0.1770285	0.18103590	3.0947548	21	8 28.2	19.1
178768 2000 WK_{52}	15.3	X	350.69199	77.51751	244.10817	3.44893	0.1422156	0.17863338	3.1224414	21	8 9.1	18.9
178769 2000 WD_{57}	16.9	X	117.56866	40.93786	65.85208	2.11478	0.1094536	0.30780552	2.1724600	21	4 25.6	19.5
178770 2000 WY_{111}	15.0	X	263.18608	359.65536	40.70478	9.58897	0.0924441	0.17458407	3.1705381	21	7 20.2	19.7
178771 2000 WJ_{187}	15.3	X	342.17621	195.59831	181.67404	8.39013	0.0960874	0.18484179	3.0521270	21	10 12.1	19.1
178772 2000 WB_{189}	14.9	X	122.24498	323.73454	246.67774	8.58261	0.0236549	0.18050489	3.1008213	21	9 4.9	19.5
178773 2000 YH_{26}	17.0	X	46.32729	44.00568	76.54497	5.05867	0.1106926	0.29611634	2.2292621	21	1 16.4	18.8
178774 2000 YC_{52}	16.6	X	71.57043	163.83096	287.60262	4.59743	0.1114073	0.29642692	2.2277047	21	1 18.9	18.4
178775 2000 YR_{77}	16.9	X	46.86245	3.36520	78.77340	7.61851	0.1210783	0.29364746	2.2417399	21	—	—
178776 2000 YZ_{94}	16.7	X	22.58060	272.27518	301.06617	3.44681	0.0474205	0.30540190	2.1838437	21	4 22.4	18.9
178777 2000 YA_{108}	15.4	X	288.27371	315.97948	67.69974	3.77221	0.2609411	0.17558456	3.1584827	21	7 3.7	19.8
178778 2000 YC_{140}	16.1	X	24.63452	7.61201	94.45758	25.36538	0.2222306	0.28934380	2.2639140	21	—	—
178779 2001 AG_{13}	15.9	X	6.50366	95.66926	112.58399	21.49082	0.2174014	0.29871494	2.2163147	21	3 10.9	18.0
178780 2001 AV_{29}	16.3	X	200.87273	27.83123	61.60576	5.98506	0.0828945	0.26626371	2.3929194	21	7 11.6	19.7
178781 2001 AE_{34}	17.3	X	308.26754	51.63077	10.93616	3.67561	0.2180997	0.27713240	2.3299388	21	10 21.9	18.9
178782 2001 AA_{46}	16.2	X	25.98637	45.10880	346.68009	23.49894	0.2347251	0.28633308	2.2797560	21	—	—
178783 2001 BY_{2}	15.8	X	62.12760	284.43767	131.21077	23.83192	0.2781098	0.28908798	2.2652494	21	—	—
178784 2001 BT_{3}	16.5	X	73.33766	46.54054	336.10974	10.27708	0.2139379	0.28937392	2.2637569	21	—	—
178785 2001 BE_{83}	17.1	X	319.09736	214.39211	297.61000	4.45829	0.0903686	0.28614943	2.2807313	21	—	—
178786 2001 CF_{24}	16.9	X	352.31816	261.11448	248.45363	3.13344	0.1023911	0.29083299	2.2561793	21	—	—
178787 2001 CR_{45}	15.2	X	178.38597	173.16324	92.94695	13.73873	0.2632169	0.22857923	2.6491804	21	—	—
178788 2001 CY_{49}	16.3	X	260.03517	271.73195	324.32986	5.17614	0.0970265	0.28533304	2.2850796	21	—	—
178789 2001 DE	16.4	X	296.67736	35.71957	167.50373	5.43092	0.1378346	0.28658368	2.2784268	21	—	—
178790 2001 DY_{1}	17.3	X	223.37481	289.20597	356.09452	0.72120	0.2054284	0.28799102	2.2709980	21	—	—
178791 2001 DU_{5}	17.0	X	21.11279	80.44019	28.83297	7.54173	0.1543628	0.28898647	2.2657798	21	—	—
178792 2001 DH_{14}	16.4	X	259.29640	266.91348	319.24874	22.48902	0.2386587	0.28400353	2.2922055	21	—	—
178793 2001 DX_{33}	17.4	X	322.39983	100.75663	38.10299	3.88274	0.1791151	0.28340737	2.2954189	21	—	—
178794 2001 DD_{47}	16.4	X	291.94043	291.89069	338.83570	5.96721	0.1165631	0.29577515	2.2309762	21	2 19.7	19.2
178795 2001 DQ_{66}	17.1	X	307.06115	188.37223	331.43661	3.34953	0.1614208	0.28388251	2.2928570	21	—	—
178796 Posztoczky	17.2	X	268.48697	155.61240	8.72218	5.92759	0.1636750	0.27705842	2.3303535	21	—	—
178797 2001 DO_{92}	16.8	X	292.89271	154.43140	23.30666	8.41030	0.1203292	0.28417071	2.2913064	21	—	—
178798 2001 ED_{3}	17.0	X	312.19425	160.05532	2.98994	7.04515	0.0387274	0.28373199	2.2936678	21	—	—
178799 2001 EG_{4}	17.1	X	331.52531	350.36787	148.81879	7.34336	0.1979717	0.28482689	2.2877859	21	—	—
178800 2001 EB_{8}	16.5	X	252.12790	35.42642	135.01815	3.48270	0.1972628	0.27659270	2.3329687	21	12 18.9	19.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
178801 2001 ES_{23}	16.8	X	196.64471	331.53686	278.96656	1.58506	0.1867020	0.27697789	2.3308052	21	—	—
178802 2001 FN	16.7	X	319.78412	201.04456	51.76296	6.59165	0.1389394	0.29507314	2.2345132	21	3 3.6	19.3
178803 Kristenjohnson	17.7	X	237.47350	182.20910	337.03490	0.88715	0.1349817	0.27338356	2.3511903	21	11 21.6	20.7
178804 2001 FZ_{31}	17.1	X	210.71508	342.29540	163.89689	7.11558	0.0948798	0.26451160	2.4034748	21	10 8.4	20.4
178805 2001 FS_{41}	16.8	X	278.33638	102.14313	150.55899	2.28913	0.2876736	0.28593527	2.2818700	21	—	—
178806 2001 FM_{59}	16.7	X	273.45058	92.26387	130.49395	5.99042	0.2175505	0.28403309	2.2920465	21	—	—
178807 2001 FE_{60}	17.1	X	194.00631	148.16103	54.18238	4.19560	0.1461084	0.27192549	2.3595876	21	11 25.7	20.4
178808 2001 FF_{63}	16.4	X	205.18840	113.01950	144.38017	8.38690	0.0920861	0.27964764	2.3159470	21	—	—
178809 2001 FF_{76}	15.7	X	159.89547	246.86984	52.75440	6.63596	0.1823211	0.27580652	2.3374000	21	—	—
178810 2001 FP_{76}	16.9	X	239.91965	20.25099	147.56215	5.42811	0.1880184	0.27324291	2.3519971	21	11 29.8	19.9
178811 2001 FJ_{82}	16.4	X	164.57504	16.52213	230.78799	6.38079	0.2377475	0.27060960	2.3672307	21	12 18.2	20.4
178812 2001 FC_{89}	16.9	X	83.94859	314.72888	353.20396	6.28947	0.1332226	0.27070902	2.3666511	21	12 19.9	20.4
178813 2001 FJ_{89}	17.4	X	317.47698	93.28262	34.64228	1.61939	0.0624333	0.27988278	2.3146497	21	—	—
178814 2001 FM_{98}	16.2	X	321.02712	118.58272	111.31730	7.20871	0.1239852	0.28980929	2.2614892	21	2 1.9	18.9
178815 2001 FQ_{108}	16.4	X	147.83593	268.29356	4.95333	4.82301	0.1155950	0.27351267	2.3504503	21	—	—
178816 2001 FN_{114}	16.3	X	256.76284	70.98712	133.40752	6.89889	0.0575970	0.28040286	2.3117867	21	—	—
178817 2001 FZ_{120}	16.1	X	194.17197	188.11506	121.13073	4.15234	0.1330178	0.28277799	2.2988236	21	—	—
178818 2001 FK_{122}	16.9	X	220.56962	74.86495	174.57248	2.50055	0.1217253	0.27994324	2.3143164	21	—	—
178819 2001 FX_{153}	17.2	X	265.67549	5.53031	161.37771	2.35793	0.1580870	0.27832632	2.3232710	21	—	—
178820 2001 FR_{158}	16.1	X	209.48717	323.52579	327.85112	5.08634	0.1712727	0.28358322	2.2944699	21	—	—
178821 2001 FX_{161}	16.5	X	220.75234	223.40315	15.53321	4.55940	0.1583349	0.27661144	2.3328633	21	—	—
178822 2001 FV_{164}	16.7	X	251.64901	321.88461	262.72698	3.23911	0.1905263	0.28111609	2.3078748	21	—	—
178823 2001 FP_{176}	16.2	X	189.37102	94.18453	134.04283	12.23514	0.1971060	0.27284614	2.3542767	21	12 20.2	20.0
178824 2001 FF_{189}	16.0	X	134.06754	208.53625	71.70748	10.75060	0.2357567	0.26982653	2.3718085	21	—	—
178825 2001 GB_{1}	16.1	X	312.15457	68.88299	125.54231	22.50273	0.1989542	0.28569394	2.2831548	21	—	—
178826 2001 GN_{3}	15.3	X	120.69541	293.97439	33.34290	23.47423	0.1757203	0.27515670	2.3410786	21	—	—
178827 2001 GR_{3}	16.4	X	291.84965	162.61137	113.08182	8.79619	0.2233755	0.29147094	2.2528860	21	2 15.3	19.6
178828 2001 GL_{7}	16.5	X	166.44263	145.87923	116.11657	8.81598	0.1039429	0.27222271	2.3578698	21	—	—
178829 2001 GQ_{10}	17.1	X	191.19591	101.99378	122.39179	3.08089	0.1595752	0.27207040	2.3587497	21	12 19.6	20.6
178830 Anne-Véronique	17.3	X	42.90484	218.43320	71.14437	2.08499	0.1778308	0.25751732	2.4467997	21	10 12.4	20.2
178831 2001 HL_{3}	16.0	X	163.88829	242.78096	38.81377	11.39228	0.2382241	0.27133761	2.3629945	21	—	—
178832 2001 HR_{3}	16.7	X	237.22724	162.66456	24.62091	6.06426	0.1722850	0.27404864	2.3473848	21	12 23.6	19.5
178833 2001 HN_{12}	15.7	X	39.77114	264.13904	49.38034	7.93034	0.3404298	0.25715086	2.4491238	21	12 2.2	19.0
178834 2001 HA_{16}	16.4	X	121.29955	335.67225	224.02761	5.27781	0.0761283	0.25693803	2.4504760	21	9 2.7	20.0
178835 2001 HT_{17}	16.7	X	348.54884	232.20111	211.17630	8.91026	0.0702739	0.27431697	2.3458537	21	—	—
178836 2001 HD_{18}	16.9	X	76.50794	79.42451	205.59759	1.53993	0.1735696	0.26051299	2.4280062	21	11 15.9	20.3
178837 2001 HN_{20}	15.9	X	96.33792	9.43496	232.54409	7.18155	0.2231680	0.25837824	2.4413615	21	10 15.3	19.7
178838 2001 HA_{21}	16.6	X	224.88146	118.85433	41.27159	2.97806	0.1510578	0.26934211	2.3746515	21	11 4.4	19.7
178839 2001 HB_{21}	16.1	X	328.09768	200.58936	35.63077	12.24663	0.1021960	0.24238349	2.5476164	21	3 10.7	19.4
178840 2001 HN_{25}	16.2	X	81.49448	307.56290	29.64494	5.90289	0.1604256	0.26953323	2.3735288	21	—	—
178841 2001 HZ_{43}	16.7	X	59.31076	226.91756	48.22462	1.85620	0.1722403	0.25819177	2.4425368	21	10 13.9	19.6
178842 2001 HQ_{50}	16.7	X	276.22006	113.34500	102.67229	7.21191	0.1305588	0.28307718	2.2972035	21	—	—
178843 2001 HL_{52}	16.8	X	138.67875	56.79130	187.55001	5.03181	0.1281968	0.26581456	2.3956142	21	11 24.8	20.4
178844 2001 HG_{53}	16.3	X	241.30420	339.77332	172.79556	5.15341	0.1659785	0.26971794	2.3724450	21	11 14.0	19.2
178845 2001 HX_{66}	16.6	X	209.47060	14.53133	220.84944	5.90616	0.0889191	0.27371447	2.3492949	21	—	—
178846 2001 JT	17.0	X	234.42328	189.93758	43.82278	4.57822	0.1301181	0.27882600	2.3204945	21	—	—
178847 2001 JK_{3}	16.8	X	80.86251	152.73822	125.19040	1.53531	0.2093207	0.26079345	2.4262652	21	11 15.5	20.4
178848 2001 JA_{4}	16.6	X	86.42388	165.53166	100.93156	2.67058	0.1626507	0.25951745	2.4342117	21	11 2.4	20.0
178849 2001 JZ_{7}	16.4	X	65.21214	90.22571	208.26939	5.91013	0.1299088	0.26126994	2.4233143	21	11 15.7	19.6
178850 2001 JT_{9}	16.5	X	240.01117	79.47017	93.03116	5.74158	0.1695514	0.27128054	2.3633259	21	12 7.7	19.4
178851 2001 KU_{4}	16.0	X	24.53020	217.96551	65.66192	9.76527	0.0905619	0.25323563	2.4743028	21	8 24.8	19.0
178852 2001 KM_{14}	16.5	X	192.49101	183.70051	88.50875	3.11176	0.1927067	0.27456936	2.3444160	21	—	—
178853 2001 KR_{14}	16.0	X	77.74330	204.13202	84.26025	8.37220	0.2125916	0.26053081	2.4278955	21	11 26.3	19.6
178854 2001 KR_{16}	16.6	X	171.11637	141.35099	115.13456	4.71916	0.1951875	0.26948203	2.3738294	21	—	—
178855 2001 KL_{18}	16.5	X	123.87557	92.48621	115.54787	7.32015	0.0751352	0.25758812	2.4463513	21	9 22.8	20.0
178856 2001 KY_{19}	16.0	X	178.28990	158.97739	116.55033	7.18579	0.3074892	0.27120560	2.3637613	21	—	—
178857 2001 KD_{20}	16.3	X	107.29575	205.86033	104.79867	5.73524	0.2270863	0.26663880	2.3906747	21	—	—
178858 2001 KM_{23}	16.5	X	140.01091	55.32368	218.47794	3.95273	0.1846860	0.26694221	2.3888628	21	12 30.7	20.5
178859 2001 KL_{24}	16.9	X	178.97252	340.62019	284.03253	1.93547	0.2106501	0.27128223	2.3633161	21	—	—
178860 2001 KZ_{42}	16.2	X	137.01288	181.24410	119.16647	7.18855	0.2079249	0.26925005	2.3751927	21	—	—
178861 2001 KD_{57}	16.4	X	170.39655	113.63837	157.42266	9.46097	0.1979927	0.27136648	2.3628270	21	—	—
178862 2001 KQ_{62}	15.6	X	234.68005	170.94743	174.85632	13.42215	0.3037929	0.23752590	2.5822328	21	3 24.3	20.3
178863 2001 KK_{63}	16.7	X	122.26609	38.05227	191.29601	4.74083	0.0622742	0.26093577	2.4253829	21	10 15.6	19.9
178864 2001 KV_{68}	16.1	X	84.78999	153.57317	166.12614	5.53517	0.1163344	0.26614912	2.3936062	21	—	—
178865 2001 KF_{70}	16.4	X	164.84865	38.14733	199.49736	6.22782	0.1139096	0.26794249	2.3829137	21	12 12.5	19.9
178866 2001 KA_{75}	16.3	X	103.91411	151.13105	156.36868	7.60117	0.1168981	0.26620075	2.3932967	21	—	—
178867 2001 LA_{7}	14.9	X	241.14455	86.06418	255.47755	10.82917	0.2609919	0.23281880	2.6169214	21	3 20.5	19.7
178868 2001 MU_{4}	15.9	X	277.57189	207.25315	129.04971	10.49076	0.1486348	0.23731280	2.5837785	21	5 7.5	19.7
178869 2001 MD_{6}	15.9	X	274.10593	291.13220	81.86528	3.42640	0.2015408	0.24308219	2.5427322	21	6 9.6	19.4
178870 2001 MK_{6}	15.9	X	204.89779	166.86490	175.09991	11.69624	0.1428274	0.22724200	2.6595632	21	2 26.4	20.1
178871 2001 MA_{8}	17.6	X	185.95389	357.56326	269.62706	7.58564	0.4626795	0.26954138	2.3734810	21	—	—
178872 2001 MZ_{13}	16.4	X	170.06927	199.47531	134.77222	7.70411	0.0780219	0.22470900	2.6795122	21	1 11.5	20.3
178873 2001 MB_{21}	15.6	X	252.75835	23.67667	293.39395	12.19268	0.1812407	0.23384733	2.6092425	21	3 4.7	20.0
178874 2001 MF_{23}	15.7	X	139.59330	349.98876	354.69961	6.18133	0.3700934	0.21793730	2.7347334	21	1 25.3	20.4
178875 2001 MW_{23}	15.5	X	94.66797	30.36335	338.85646	7.67150	0.3123862	0.21378420	2.7700375	21	—	—
178876 2001 NS_{9}	15.5	X	194.50662	245.72014	132.89161	16.03320	0.1349744	0.23304087	2.6152587	21	4 8.9	19.9
178877 2001 NF_{13}	16.0	X	238.56370	302.37562	33.39207	3.90928	0.3520816	0.23254670	2.6189624	21	3 14.4	20.9
178878 2001 NA_{16}	16.0	X	341.18709	144.37344	134.05465	13.98345	0.1603733	0.23931924	2.5693167	21	5 23.0	19.0
178879 2001 NL_{16}	16.7	X	145.11560	111.63101	147.19524	14.81003	0.2061236	0.26290570	2.4132522	21	12 17.9	21.0
178880 2001 NU_{17}	16.4	X	331.80218	307.79540	327.96123	5.33223	0.2357134	0.24092405	2.5578944	21	4 10.7	19.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
178881 2001 OY	16.6	X	69.75704	335.58478	324.30605	3.61617	0.1747881	0.25655629	2.4529062	21	11 26.1	20.1
178882 2001 OH_6	16.0	X	292.89763	147.53710	168.63276	13.54003	0.1861875	0.23742977	2.5829298	21	4 23.3	19.6
178883 2001 OA_{11}	15.9	X	236.01490	284.60564	93.87079	10.33029	0.1693985	0.23699551	2.5860841	21	5 13.8	20.1
178884 2001 OZ_{18}	16.4	X	295.64621	159.63901	166.78460	2.14466	0.1766988	0.24058659	2.5602857	21	5 9.3	19.6
178885 2001 OD_{20}	15.5	X	109.02719	94.63277	275.21999	7.78767	0.1944593	0.21621310	2.7492531	21	1 1.6	19.0
178886 2001 OD_{24}	16.1	X	285.23409	312.78659	50.28059	4.14216	0.3017895	0.24148163	2.5539554	21	5 26.1	19.5
178887 2001 OU_{27}	16.1	X	37.61226	245.38055	67.28917	9.18726	0.1290995	0.25277948	2.4772785	21	10 29.8	19.1
178888 2001 OW_{32}	16.3	X	36.44667	233.80894	74.41895	7.72017	0.1244669	0.25303063	2.4756390	21	10 21.8	19.3
178889 2001 OC_{34}	16.0	X	312.78281	177.73694	101.19005	15.75415	0.0981914	0.23701803	2.5859202	21	4 19.4	19.6
178890 2001 OC_{40}	15.6	X	220.10877	234.70491	111.26778	12.79125	0.1829340	0.22963274	2.6410716	21	3 22.7	20.2
178891 2001 OU_{40}	15.3	X	228.60891	285.58148	79.87579	10.68127	0.1356845	0.18379099	3.0637494	21	4 26.9	20.2
178892 2001 OA_{42}	16.9	X	111.73810	257.79452	166.65236	22.02354	0.1038308	0.37138497	1.9168428	21	1 25.2	18.9
178893 2001 OD_{43}	16.0	X	21.21017	69.84750	293.64339	8.12001	0.2446776	0.20206102	2.8761687	21	12 16.8	19.4
178894 2001 OZ_{48}	16.7	X	310.84353	100.98277	208.23604	3.38092	0.2776168	0.23895081	2.5719570	21	4 20.0	19.8
178895 2001 ON_{49}	15.8	X	344.42234	138.99446	175.13110	3.84515	0.1822839	0.24532025	2.5272436	21	7 18.2	17.9
178896 2001 OG_{58}	16.0	X	234.97085	42.29554	288.60540	2.27273	0.1685099	0.23164537	2.6257516	21	3 11.2	20.2
178897 2001 ON_{61}	15.6	X	111.28269	10.85019	334.45551	9.58101	0.2626819	0.21544490	2.7557844	21	—	—
178898 2001 OR_{70}	15.6	X	283.73031	332.08178	330.22290	12.87662	0.1818070	0.23431491	2.6057702	21	3 18.6	19.5
178899 2001 OF_{71}	15.2	X	238.11987	4.62016	345.82556	32.65507	0.1427313	0.23139248	2.6276643	21	3 26.5	19.8
178900 2001 OL_{80}	16.8	X	327.00941	174.90085	344.11105	19.09380	0.0910759	0.36712816	1.9316314	21	—	—
178901 2001 OE_{83}	16.0	X	238.29870	289.70997	87.76917	8.38371	0.1006490	0.23753587	2.5821606	21	5 19.2	19.7
178902 2001 OD_{90}	15.8	X	216.75845	167.32230	128.22811	13.52252	0.1739097	0.22540149	2.6740213	21	1 14.2	20.3
178903 2001 OP_{90}	16.0	X	297.75462	210.91388	143.62345	5.79405	0.1718683	0.24315543	2.5422216	21	6 21.2	19.1
178904 2001 OO_{93}	15.7	X	265.73402	187.46650	119.33069	16.67845	0.1412316	0.23396897	2.6083380	21	3 20.2	19.9
178905 2001 OV_{93}	16.7	X	338.51064	315.90516	334.83179	12.67086	0.1924508	0.24221314	2.5488107	21	5 22.9	19.5
178906 2001 OV_{99}	16.0	X	278.32970	175.77312	128.11798	6.73854	0.1246552	0.23528537	2.5986000	21	3 29.0	19.7
178907 2001 OE_{111}	15.8	X	118.61717	302.20685	156.82803	14.50571	0.0539767	0.22860363	2.6489920	21	4 19.6	19.6
178908 2001 PD_4	16.3	X	153.07864	147.18018	251.93481	19.47104	0.0817366	0.37704274	1.8976189	21	2 7.3	18.8
178909 2001 PL_{18}	15.6	X	112.78085	238.83734	111.09217	14.79572	0.1972513	0.21592069	2.7517346	21	—	—
178910 2001 PJ_{21}	16.1	X	220.21280	2.37914	21.44927	5.03495	0.2623548	0.23393009	2.6086270	21	4 28.5	20.6
178911 2001 PZ_{23}	16.2	X	299.95104	307.46303	26.53765	7.92746	0.1621459	0.24055327	2.5605222	21	5 26.0	19.4
178912 2001 PG_{27}	16.2	X	288.59009	172.26818	169.10620	7.25049	0.1851532	0.23859510	2.5745127	21	5 20.3	19.7
178913 2001 PU_{32}	15.7	X	112.26904	232.81899	47.14291	11.61684	0.1928000	0.25913447	2.4366095	21	12 12.9	19.7
178914 2001 PN_{37}	16.0	X	58.33184	46.37472	2.83401	15.14408	0.3026747	0.21278289	2.7787208	21	—	—
178915 2001 PK_{63}	15.7	X	225.25652	142.02124	181.03265	10.12976	0.2218231	0.22568060	2.6718161	21	2 20.0	20.4
178916 2001 QO_3	16.2	X	196.43277	203.59524	137.76584	3.91286	0.2208438	0.22693056	2.6619959	21	2 21.3	20.8
178917 2001 QP_4	16.0	X	331.68324	186.65970	163.11659	5.25221	0.0830611	0.24693823	2.5161923	21	8 23.6	18.9
178918 2001 QZ_4	15.6	X	344.01914	175.47802	146.73423	15.97205	0.1476062	0.24539322	2.5267426	21	8 1.3	18.1
178919 2001 QT_{11}	16.3	X	315.47890	335.92446	350.84249	3.85773	0.1748082	0.24120848	2.5558832	21	6 8.7	19.1
178920 2001 QO_{14}	15.8	X	241.34611	9.13362	321.52183	4.10190	0.2685920	0.23089796	2.6314149	21	3 11.5	20.4
178921 2001 QP_{21}	15.4	X	161.34608	199.90288	178.83185	12.05671	0.1884224	0.22338351	2.6901013	21	3 6.0	19.8
178922 2001 QE_{24}	15.4	X	106.46112	8.33393	357.51132	8.05866	0.2227484	0.21485110	2.7608597	21	—	—
178923 2001 QU_{25}	16.8	X	239.57590	200.06502	168.18538	22.82062	0.0905330	0.38236504	1.8799686	21	5 1.8	19.4
178924 2001 QR_{27}	16.0	X	297.82329	6.85224	334.46074	4.32991	0.3253604	0.23846422	2.5754546	21	5 7.2	19.5
178925 2001 QE_{30}	15.6	X	294.60905	206.22930	204.06111	2.33601	0.2993368	0.19081974	2.9880454	21	8 9.6	19.4
178926 2001 QP_{33}	17.0	X	15.39427	271.99340	146.28841	23.77025	0.1301775	0.36012717	1.9565853	21	—	—
178927 2001 QS_{35}	16.4	X	325.52997	191.78604	141.20202	11.83965	0.2173905	0.24482817	2.5306289	21	7 1.5	18.9
178928 2001 QP_{41}	16.9	X	106.83738	121.94423	142.76718	7.41407	0.1886215	0.25756554	2.4464943	21	11 22.7	20.9
178929 2001 QC_{48}	16.2	X	221.36177	235.34522	143.79234	4.81057	0.1639032	0.23436638	2.6053886	21	4 30.0	20.4
178930 2001 QO_{53}	16.1	X	311.87916	316.15179	305.50995	6.73100	0.1102112	0.23384969	2.6092249	21	3 12.5	19.6
178931 2001 QJ_{54}	16.6	X	53.20171	170.25120	127.12924	2.59302	0.1958513	0.25242335	2.4796080	21	11 7.9	19.8
178932 2001 QY_{58}	16.3	X	135.58536	164.36438	198.25269	4.58377	0.1220332	0.21929714	2.7234166	21	1 13.3	20.2
178933 2001 QV_{66}	15.9	X	294.44919	152.53487	176.45279	15.95220	0.0471481	0.23757782	2.5818566	21	6 2.6	19.6
178934 2001 QL_{67}	16.3	X	278.38051	132.46210	192.78463	3.69568	0.2028766	0.23766516	2.5812240	21	4 12.9	20.1
178935 2001 QY_{68}	15.8	X	246.35955	10.58209	313.71041	11.44316	0.1924913	0.23090800	2.6313386	21	3 8.8	20.2
178936 2001 QA_{81}	15.4	X	124.56642	65.43436	291.88089	6.57937	0.2058104	0.21504556	2.7591950	21	1 7.2	19.1
178937 2001 QD_{82}	15.5	X	142.05352	1.74797	312.97319	13.77410	0.2730974	0.21477605	2.7615028	21	—	—
178938 2001 QA_{89}	16.3	X	330.16141	173.26448	160.78564	6.76422	0.2686072	0.24228911	2.5482779	21	7 4.9	18.5
178939 2001 QP_{89}	15.6	X	88.24377	354.76516	70.94245	13.65370	0.1233418	0.22205327	2.7008343	21	2 5.4	19.2
178940 2001 QG_{98}	15.9	X	294.00548	6.22608	309.55438	13.85672	0.1530854	0.23847856	2.5753514	21	4 18.3	19.7
178941 2001 QY_{100}	16.7	X	103.19781	50.50508	2.86064	18.66303	0.1338102	0.36987872	1.9220432	21	—	—
178942 2001 QK_{103}	16.7	X	88.21680	139.80397	122.67685	9.66216	0.2487306	0.25481844	2.4640460	21	11 9.3	20.8
178943 2001 QA_{111}	15.5	X	79.50235	128.80180	244.86579	3.78112	0.1797163	0.21302646	2.7766023	21	—	—
178944 2001 QA_{121}	15.9	X	280.37502	247.04674	83.22313	3.30827	0.1823136	0.23806174	2.5783566	21	4 25.2	19.6
178945 2001 QP_{122}	16.9	X	112.19961	252.88090	38.98190	2.67480	0.2004086	0.26023409	2.4297406	21	12 28.9	20.9
178946 2001 QV_{123}	16.1	X	9.13965	241.89489	57.55447	4.06544	0.1146589	0.24575299	2.5242761	21	8 19.6	18.7
178947 2001 QG_{124}	16.1	X	298.71829	190.64797	133.82280	7.90885	0.1935638	0.23883748	2.5727706	21	5 10.7	19.5
178948 2001 QJ_{130}	16.2	X	340.49691	130.75712	174.62991	13.03109	0.2897662	0.24335274	2.5408473	21	6 11.6	18.4
178949 2001 QM_{132}	15.9	X	302.36630	4.14822	301.07011	7.99302	0.1099598	0.23650979	2.5896235	21	4 26.1	19.3
178950 2001 QK_{136}	15.0	X	293.34727	262.48214	1.10191	28.24144	0.0669347	0.22486048	2.6783087	21	3 9.2	18.8
178951 2001 QP_{149}	15.8	X	217.24868	246.98425	81.37255	7.93159	0.2980312	0.22777791	2.6553900	21	2 24.1	20.8
178952 2001 QO_{151}	16.0	X	160.21048	267.05175	346.70804	24.30290	0.3072918	0.26249045	2.4157967	21	12 20.1	20.9
178953 2001 QB_{163}	15.5	X	81.12204	177.37069	203.62103	5.55864	0.0774975	0.21392819	2.7687943	21	—	—
178954 2001 QT_{166}	16.1	X	83.71585	301.37891	96.44169	9.63003	0.1822233	0.21680955	2.7442085	21	—	—
178955 2001 QH_{180}	15.5	X	206.94947	343.77457	15.26258	12.50067	0.2029662	0.22839816	2.6505804	21	3 23.6	20.0
178956 2001 QN_{185}	16.5	X	171.02185	192.11074	165.84859	2.44972	0.1190401	0.22522520	2.6754164	21	2 13.6	20.6
178957 2001 QO_{186}	17.1	X	113.31489	291.28826	202.92229	22.01502	0.0517562	0.38341797	1.8765252	21	5 16.1	19.1
178958 2001 QG_{188}	14.8	X	260.82015	347.40825	326.59677	14.52028	0.0624774	0.17932253	3.1144365	21	3 26.0	19.6
178959 2001 QK_{188}	16.8	X	236.89157	158.00710	154.62468	4.45528	0.1445240	0.22985145	2.6393959	21	2 21.2	21.0
178960 2001 QH_{189}	15.1	X	274.12723	90.25857	233.25807	13.84998	0.1838880	0.23511227	2.5998753	21	4 5.0	19.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
178961 2001 QY_{202}	15.4	X	113.05364	281.91781	97.00425	7.13906	0.0681336	0.22050736	2.7134427	21	—	—
178962 2001 QO_{211}	15.8	X	234.44971	348.52091	342.12031	14.80125	0.0967552	0.22877876	2.6476399	21	3 13.2	19.8
178963 2001 QO_{213}	16.8	X	345.23028	136.38133	178.83054	2.96096	0.1879637	0.24355695	2.5394268	21	7 21.7	19.0
178964 2001 QY_{213}	16.1	X	93.51635	83.32025	281.71324	1.31414	0.2026617	0.21330890	2.7741508	21	—	—
178965 2001 QS_{216}	16.3	X	277.33580	304.69727	13.67790	7.01695	0.2010770	0.23441852	2.6050023	21	4 3.3	20.2
178966 2001 QY_{221}	15.8	X	71.96412	172.68850	219.41471	7.53998	0.1253159	0.21517424	2.7580948	21	—	—
178967 2001 QB_{229}	15.3	X	74.28044	259.70537	306.97772	12.69565	0.0567834	0.24007962	2.5638888	21	7 12.6	18.6
178968 2001 QW_{229}	16.0	X	140.11417	85.06664	266.72932	4.35891	0.1291476	0.21824421	2.7321690	21	1 6.9	19.8
178969 2001 QG_{231}	15.9	X	178.29172	104.17070	238.95647	7.21217	0.1024395	0.22377240	2.6869837	21	1 30.9	20.1
178970 2001 QH_{232}	15.1	X	180.74129	73.01699	2.00100	14.04551	0.2475723	0.18104738	3.0946240	21	5 30.3	20.8
178971 2001 QJ_{236}	16.1	X	89.75509	121.63513	166.48294	9.40582	0.2592951	0.25555945	2.4592806	21	12 9.7	20.4
178972 2001 QS_{239}	16.1	X	58.73095	30.64122	347.01853	13.31621	0.2027203	0.21007894	2.8025135	21	—	—
178973 2001 QL_{245}	15.6	X	174.60789	17.31559	355.73512	12.86510	0.0886562	0.22389535	2.6859999	21	3 7.7	19.5
178974 2001 QO_{246}	15.5	X	265.94104	334.08609	1.65703	12.55381	0.1918235	0.23276706	2.6173092	21	4 11.5	19.6
178975 2001 QZ_{246}	16.2	X	278.94499	330.20198	19.13461	5.99679	0.2702244	0.23642764	2.5902233	21	5 4.8	20.2
178976 2001 QA_{248}	15.3	X	179.34652	333.48883	10.87228	13.91121	0.1639204	0.22058715	2.7127883	21	2 14.5	19.9
178977 2001 QG_{255}	16.1	X	74.02522	262.29380	108.63456	9.16694	0.2999453	0.21102953	2.7940911	21	—	—
178978 2001 QK_{257}	15.5	X	309.35782	328.14064	10.89040	12.75796	0.1735889	0.23972605	2.5664092	21	6 15.8	18.7
178979 2001 QT_{257}	16.8	X	29.09153	234.65944	165.41235	23.93331	0.0984575	0.35647696	1.9699192	21	—	—
178980 2001 QJ_{263}	16.3	X	100.14687	248.71107	116.89022	2.98381	0.2465230	0.21231573	2.7827954	21	—	—
178981 2001 QB_{266}	15.3	X	319.45728	166.70362	171.46892	18.72003	0.1868817	0.24475805	2.5311122	21	7 1.4	18.5
178982 2001 QY_{268}	15.7	X	267.37938	213.19297	105.43165	6.61386	0.3218896	0.23337969	2.6127269	21	3 17.3	20.2
178983 2001 QU_{273}	15.9	X	326.62599	342.22381	342.55406	10.17918	0.0417826	0.24235427	2.5478211	21	7 15.9	19.1
178984 2001 QE_{279}	15.9	X	268.43946	337.03768	10.02660	10.87291	0.1456471	0.23666271	2.5885079	21	5 3.7	19.8
178985 2001 QA_{288}	16.9	X	54.52073	245.12966	189.24501	22.85658	0.0224881	0.36486722	1.9396029	21	—	—
178986 2001 QO_{292}	15.6	X	15.43165	338.54656	302.22144	13.12628	0.1465297	0.24335046	2.5408631	21	8 2.4	18.1
178987 Jillianredfern	16.5	X	50.09912	302.09265	177.03407	8.51817	0.0831278	0.22302224	2.6930056	21	2 6.8	19.7
178988 2001 QF_{329}	16.4	X	38.71858	221.74542	167.82189	3.91478	0.1027654	0.20897041	2.8124158	21	—	—
178989 2001 QY_{329}	15.8	X	179.80894	228.67519	185.16123	12.12597	0.0857601	0.23259347	2.6186113	21	5 3.6	19.8
178990 2001 QZ_{329}	15.6	X	31.26161	285.44041	145.08996	13.64484	0.1883534	0.21157641	2.7892742	21	—	—
178991 2001 QF_{333}	15.4	X	198.21042	69.12797	259.14537	14.44397	0.0436208	0.22308342	2.6925133	21	1 28.7	19.5
178992 2001 RM_{2}	16.8	X	13.33318	207.57591	73.25732	0.94060	0.1885427	0.24459033	2.5322691	21	8 3.8	19.0
178993 2001 RS_{2}	15.6	X	137.46987	195.56577	185.94318	7.06057	0.1941187	0.22030786	2.7150806	21	2 15.1	19.7
178994 2001 RV_{2}	16.0	X	170.92324	169.71166	183.10698	12.27293	0.1813267	0.22254576	2.6968482	21	2 9.9	20.5
178995 2001 RT_{4}	16.2	X	279.12016	150.21807	174.11205	15.14428	0.1300296	0.23557423	2.5964753	21	4 25.1	20.0
178996 2001 RY_{5}	17.1	X	21.29718	125.85636	324.91445	17.71619	0.0953227	0.36505295	1.9389449	21	—	—
178997 2001 RD_{10}	16.6	X	123.14975	164.48191	228.21787	18.31941	0.0805481	0.37045321	1.9200556	21	—	—
178998 2001 RP_{10}	16.8	X	309.07919	39.66059	200.06597	20.10738	0.0648702	0.37582874	1.9017031	21	1 15.0	19.5
178999 2001 RT_{10}	15.7	X	246.95483	144.16233	185.79508	12.30423	0.1429621	0.23089768	2.6314170	21	3 23.8	19.8
179000 2001 RY_{13}	16.0	X	222.43709	76.53878	166.54532	5.75300	0.0195268	0.21525324	2.7574199	21	—	—
179001 2001 RA_{19}	16.0	X	223.84377	207.88883	168.73228	10.22913	0.0344070	0.23484959	2.6018136	21	5 7.6	19.7
179002 2001 RN_{21}	15.9	X	286.67029	160.62224	155.87198	12.53443	0.1470765	0.23605285	2.5929643	21	4 22.5	19.6
179003 2001 RV_{21}	16.5	X	140.05602	26.84005	302.77851	1.98739	0.1821412	0.21694686	2.7430505	21	—	—
179004 2001 RZ_{23}	15.6	X	281.49219	306.59318	345.92105	15.43671	0.0766584	0.23169726	2.6253596	21	3 19.2	19.2
179005 2001 RT_{25}	17.0	X	346.01464	327.31456	352.79372	5.75829	0.1607681	0.24424247	2.5346730	21	8 4.8	19.2
179006 2001 RN_{31}	16.1	X	2.83658	289.81511	352.11291	13.32366	0.1503596	0.24224324	2.5485996	21	7 13.7	18.8
179007 2001 RE_{37}	16.5	X	305.93069	120.32167	184.89709	7.29287	0.1994475	0.23817569	2.5775342	21	4 21.7	19.7
179008 2001 RD_{40}	15.4	X	259.86620	33.33401	342.83223	10.21017	0.1257885	0.18949437	3.0019619	21	6 7.5	20.0
179009 2001 RU_{42}	16.2	X	108.17057	285.30144	194.46880	11.42800	0.0257971	0.23220657	2.6215193	21	4 25.9	19.7
179010 2001 RQ_{50}	15.9	X	240.79267	175.68928	145.97063	13.94195	0.1376419	0.23061911	2.6335355	21	3 10.1	20.0
179011 2001 RF_{54}	15.8	X	238.03710	351.90236	6.69202	21.61561	0.0707178	0.23156582	2.6263529	21	4 18.5	19.8
179012 2001 RH_{57}	16.4	X	343.95951	149.47163	140.74522	4.95237	0.1941670	0.24065901	2.5597721	21	6 8.2	18.7
179013 2001 RL_{61}	16.0	X	69.28539	257.92697	142.96687	9.64853	0.1651188	0.21265011	2.7798774	21	—	—
179014 2001 RK_{62}	16.0	X	280.23898	243.90900	36.72804	9.37124	0.2111644	0.23038158	2.6353454	21	2 22.3	20.2
179015 2001 RH_{66}	16.4	X	2.09515	59.44897	261.90874	3.83127	0.2575106	0.24565296	2.5249612	21	9 17.6	18.2
179016 2001 RA_{67}	15.9	X	66.83316	68.56351	315.20668	6.71562	0.2423115	0.20934420	2.8090670	21	—	—
179017 2001 RQ_{67}	15.8	X	314.28250	329.18992	336.39256	6.16558	0.1458616	0.23595333	2.5936935	21	5 10.0	19.0
179018 2001 RX_{77}	15.9	X	131.63700	358.97110	350.91786	7.80528	0.2325548	0.21480136	2.7612858	21	1 10.7	20.1
179019 2001 RD_{83}	16.1	X	234.53612	102.77524	244.06175	3.72399	0.1555892	0.23110973	2.6298071	21	3 30.5	20.3
179020 2001 RA_{85}	15.5	X	96.13323	110.84508	326.46485	11.70949	0.0866504	0.22357615	2.6885559	21	2 21.0	19.0
179021 2001 RN_{85}	16.4	X	198.66053	14.50019	349.81021	2.27866	0.0942929	0.22737598	2.6585184	21	3 20.1	20.3
179022 2001 RP_{89}	15.3	X	180.86682	16.01988	10.90781	9.52142	0.1016544	0.22715208	2.6602650	21	3 30.5	19.2
179023 2001 RV_{90}	16.2	X	104.05480	328.29888	70.73088	3.99008	0.1951465	0.21736174	2.7395589	21	2 2.1	19.8
179024 2001 RW_{90}	15.8	X	168.59027	194.38136	127.74357	6.11872	0.1589227	0.21871177	2.7282738	21	1 3.7	20.1
179025 2001 RE_{92}	15.9	X	104.72261	18.36316	348.80323	1.98687	0.0918576	0.21460807	2.7629436	21	—	—
179026 2001 RR_{92}	15.5	X	352.53469	55.38597	351.57222	7.29718	0.3181317	0.20020114	2.8939544	21	—	—
179027 2001 RC_{99}	16.1	X	143.61158	347.63063	153.38469	4.32691	0.0425735	0.24093566	2.5578122	21	7 10.7	19.6
179028 2001 RB_{107}	16.0	X	91.43639	284.46191	72.76557	3.34906	0.0883373	0.21173819	2.7878533	21	—	—
179029 2001 RE_{110}	16.8	X	273.92110	155.59603	137.16344	3.62296	0.1161753	0.23076047	2.6324600	21	3 9.5	20.5
179030 2001 RZ_{113}	16.5	X	349.66211	224.00775	28.80169	3.53193	0.0937413	0.23563661	2.5960171	21	5 2.6	19.4
179031 2001 RP_{114}	16.2	X	21.56928	24.74127	60.34321	2.64079	0.1879775	0.21225039	2.7833664	21	—	—
179032 2001 RD_{116}	15.5	X	95.78303	326.43130	41.12192	5.62358	0.1643234	0.21374387	2.7703859	21	—	—
179033 2001 RG_{116}	16.6	X	239.96989	173.85457	143.39610	2.86559	0.1249026	0.22856437	2.6492952	21	3 3.4	20.7
179034 2001 RL_{116}	16.7	X	280.51237	232.12045	45.67544	1.56375	0.1087224	0.22927723	2.6438011	21	2 27.0	20.3
179035 2001 RB_{120}	15.9	X	46.77343	256.85591	136.00386	5.66624	0.1230940	0.20994239	2.8037285	21	—	—
179036 2001 RJ_{125}	15.9	X	132.24438	222.33517	140.48435	6.31071	0.1307722	0.21825589	2.7320716	21	1 11.6	19.8
179037 2001 RM_{135}	16.1	X	278.93619	318.54593	15.83777	11.75800	0.2023341	0.23566195	2.5958310	21	4 22.9	20.0
179038 2001 RD_{137}	16.1	X	55.40928	215.36028	146.21214	8.37769	0.1736609	0.20667866	2.8331678	21	—	—
179039 2001 RL_{146}	15.8	X	130.25440	223.01530	165.98242	13.75671	0.1176702	0.22298471	2.6933078	21	2 6.8	19.6
179040 2001 RH_{151}	16.5	X	8.04872	238.33868	55.29132	7.82861	0.2177361	0.24386310	2.5373010	21	8 19.6	18.7

ELEMENTS AND OPPOSITION DATES IN 2021

ECLIPTIC AND EQUINOX 2000.0, EPOCH 2021 JULY 5.0 TT

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
179041 2001 SG_{7}	15.7	X	41.08294	297.50577	161.43194	13.12123	0.0476341	0.21992419	2.7182374	21	—	—
179042 2001 SA_{10}	15.2	X	28.74403	250.80238	37.41995	9.18656	0.1469668	0.23957968	2.5674543	21	9 13.9	18.1
179043 2001 SL_{11}	16.4	X	152.06120	58.01352	274.27577	5.08306	0.0643108	0.21715544	2.7412938	21	—	—
179044 2001 SF_{13}	16.1	X	58.77874	274.69213	166.41576	5.38847	0.1683349	0.21638500	2.7477968	21	1 10.0	19.0
179045 2001 SJ_{13}	16.3	X	158.66127	172.91790	178.93168	3.35455	0.1283076	0.22057363	2.7128992	21	1 25.8	20.5
179046 2001 SS_{14}	16.0	X	204.53523	167.80765	177.91865	6.07892	0.0620966	0.22595314	2.6696672	21	3 2.7	19.9
179047 2001 SY_{15}	16.7	X	23.92075	297.66264	359.19725	3.59232	0.1627533	0.24571762	2.5245182	21	9 16.5	19.2
179048 2001 SW_{18}	15.7	X	71.07256	261.30128	177.73553	12.43171	0.1123767	0.21770562	2.7366733	21	1 21.0	19.2
179049 2001 SO_{19}	16.4	X	262.31445	281.47367	10.43981	2.60276	0.0678961	0.22698777	2.6615487	21	2 28.9	20.1
179050 2001 SR_{21}	15.6	X	70.09008	192.24104	182.71078	7.10872	0.1360477	0.20882996	2.8136766	21	—	—
179051 2001 SV_{33}	16.2	X	226.44758	307.25300	12.76113	12.95995	0.1266207	0.22502169	2.6770293	21	2 26.4	20.5
179052 2001 SN_{34}	16.7	X	304.87914	286.98520	25.83917	3.96661	0.2572263	0.23676937	2.5877305	21	4 20.1	20.0
179053 2001 ST_{39}	15.6	X	259.64527	336.18128	27.87981	13.39735	0.1706365	0.23456642	2.6039071	21	5 13.6	19.6
179054 2001 SL_{44}	15.6	X	182.53760	353.36635	22.44233	14.78441	0.0922903	0.22572246	2.6714858	21	3 22.2	19.7
179055 2001 SE_{46}	15.7	X	218.39558	356.45607	21.13384	13.29128	0.1614250	0.23075777	2.6324805	21	4 22.2	20.0
179056 2001 SC_{61}	16.0	X	188.62736	323.62974	15.25669	0.28369	0.2152485	0.22207225	2.7006804	21	2 12.4	20.6
179057 2001 SP_{70}	15.6	X	159.16425	198.96508	174.69094	9.61047	0.2138248	0.21901886	2.7257229	21	2 28.4	20.0
179058 2001 SU_{75}	16.0	X	345.88197	319.19271	320.29421	10.57547	0.1183239	0.23907072	2.5710970	21	5 31.6	19.0
179059 2001 SP_{77}	15.5	X	348.35993	10.06182	156.65978	10.99366	0.0451438	0.22299119	2.6932557	21	1 11.7	19.2
179060 2001 SG_{79}	15.6	X	204.18689	212.06859	158.45425	29.77074	0.0956584	0.23198943	2.6231548	21	4 6.6	19.9
179061 2001 SZ_{88}	16.0	X	287.50941	87.60186	178.78995	14.52828	0.0648129	0.22829035	2.6514148	21	2 24.1	19.9
179062 2001 SP_{94}	16.1	X	66.41516	34.83857	191.09222	10.74666	0.0755103	0.24106970	2.5568640	21	7 27.3	19.5
179063 2001 SG_{96}	16.3	X	173.39905	279.58484	333.13527	3.00375	0.0479881	0.20959112	2.8068603	21	—	—
179064 2001 SS_{96}	16.5	X	178.39646	157.89485	185.27023	5.58688	0.0240945	0.22193653	2.7017813	21	1 26.8	20.2
179065 2001 ST_{99}	16.1	X	333.48199	7.17222	187.18790	11.41521	0.0899261	0.22288503	2.6941108	21	1 19.4	19.8
179066 2001 SO_{104}	15.1	X	153.99657	135.05695	355.05080	13.64658	0.1353230	0.18607536	3.0386229	21	7 17.3	20.1
179067 2001 SJ_{105}	15.5	X	151.20024	158.55068	237.54960	8.44465	0.1243405	0.22232236	2.6986545	21	3 9.4	19.7
179068 2001 SB_{107}	15.4	X	84.44920	56.11309	356.44947	12.62206	0.0992244	0.21430056	2.7655860	21	1 11.2	19.1
179069 2001 SQ_{117}	16.1	X	98.91329	76.37815	318.75242	8.07427	0.0337619	0.21839581	2.7309046	21	—	—
179070 2001 SU_{117}	16.2	X	201.97933	89.03786	228.49061	5.40209	0.0267226	0.22242173	2.6978506	21	1 22.7	20.1
179071 2001 SF_{122}	15.8	X	97.28023	125.80157	237.48524	4.97860	0.0744986	0.21317977	2.7752710	21	—	—
179072 2001 SP_{123}	16.1	X	172.12978	179.60297	221.26366	3.03077	0.0610065	0.22952055	2.6419322	21	4 4.5	20.0
179073 2001 SM_{125}	15.7	X	255.31944	298.19182	337.96854	10.75174	0.0554757	0.22465153	2.6799692	21	2 4.3	19.6
179074 2001 SD_{126}	15.5	X	214.74896	324.07153	346.40235	13.66010	0.0343919	0.22319832	2.6915891	21	2 3.4	19.4
179075 2001 SB_{131}	16.1	X	345.82203	107.36285	353.56037	11.63411	0.2124712	0.20769783	2.8238919	21	—	—
179076 2001 SM_{133}	15.9	X	78.40388	60.61645	328.59716	5.50417	0.0497645	0.21325700	2.7746009	21	—	—
179077 2001 SW_{144}	16.1	X	358.79986	60.00940	353.65881	14.66257	0.1421617	0.20467147	2.8516607	21	—	—
179078 2001 SG_{145}	15.7	X	69.98510	156.32485	348.81939	13.32844	0.0612922	0.22827258	2.6515524	21	4 6.7	19.1
179079 2001 SH_{146}	16.1	X	176.79052	97.28115	208.89259	5.28356	0.0358941	0.21612890	2.7499671	21	—	—
179080 2001 SJ_{146}	16.0	X	43.58888	62.07975	352.74941	12.13697	0.1359010	0.21065689	2.7973852	21	—	—
179081 2001 SK_{148}	15.9	X	251.26173	98.58202	245.83438	4.06197	0.0781295	0.23179514	2.6246204	21	4 20.8	19.6
179082 2001 SR_{148}	15.9	X	214.56787	44.76752	304.77529	3.87298	0.0975422	0.22726588	2.6593769	21	3 16.7	20.1
179083 2001 SW_{148}	15.4	X	92.13910	107.22810	327.26906	8.45383	0.0584712	0.22060857	2.7126127	21	2 9.9	18.9
179084 2001 SY_{148}	16.6	X	194.63341	55.16377	261.71648	4.61769	0.1558074	0.22105412	2.7089666	21	1 19.9	21.0
179085 2001 SM_{150}	16.2	X	41.49986	56.70177	351.85595	4.60974	0.1812422	0.20863287	2.8154483	21	—	—
179086 2001 SH_{158}	15.7	X	94.72232	29.43083	340.22290	5.22750	0.0863786	0.21141839	2.7906639	21	—	—
179087 2001 SR_{158}	15.8	X	31.33087	262.14879	355.94571	8.66515	0.0763084	0.23919498	2.5702064	21	7 24.6	19.0
179088 2001 SE_{161}	16.1	X	250.26935	318.86484	2.77074	5.73184	0.2818484	0.23012220	2.6373253	21	3 8.8	20.6
179089 2001 SC_{164}	16.2	X	341.11159	112.06778	204.25597	3.46585	0.3033638	0.24197453	2.5504860	21	6 29.7	17.7
179090 2001 SK_{165}	16.5	X	179.92808	53.80368	356.00658	4.34487	0.0788008	0.23214700	2.6219676	21	4 24.8	20.5
179091 2001 SG_{173}	15.7	X	246.36405	223.16489	31.58109	9.77958	0.0702449	0.21790230	2.7350263	21	—	—
179092 2001 SD_{177}	16.0	X	261.07418	167.77847	167.97361	9.67199	0.1302313	0.23103541	2.6303711	21	4 18.7	19.9
179093 2001 SG_{178}	15.6	X	5.27944	48.46402	11.75985	15.34467	0.1359657	0.20432516	2.8548819	21	—	—
179094 2001 SA_{189}	16.5	X	335.66630	195.74972	128.55398	4.02878	0.2542301	0.24355069	2.5394703	21	7 5.7	18.2
179095 2001 SR_{190}	16.4	X	36.26464	57.82119	357.29713	4.03036	0.0571875	0.21215588	2.7841930	21	—	—
179096 2001 SX_{195}	17.0	X	169.00177	193.03966	181.53789	1.57527	0.0943429	0.22479775	2.6788069	21	3 2.2	20.9
179097 2001 SG_{197}	16.3	X	33.97859	96.76452	353.05853	5.45970	0.1133509	0.21487348	2.7606680	21	—	—
179098 2001 SY_{199}	16.5	X	195.66831	224.47552	154.89143	4.11629	0.1207656	0.22876939	2.6477122	21	4 6.5	20.5
179099 2001 SH_{202}	16.5	X	314.09523	125.98541	179.24940	3.51368	0.0962575	0.23653333	2.5894517	21	5 20.5	19.6
179100 2001 SS_{202}	16.1	X	112.74322	358.26216	7.56988	6.32607	0.0581433	0.21569722	2.7536349	21	—	—
179101 2001 SQ_{205}	16.2	X	358.47006	253.72692	3.32167	13.97719	0.1115645	0.23653454	2.5894429	21	5 18.4	19.3
179102 2001 SH_{206}	16.5	X	10.72902	232.39586	174.37313	1.82059	0.0474436	0.20670366	2.8329393	21	12 30.2	20.3
179103 2001 SY_{206}	15.9	X	311.13076	74.43829	179.76054	14.84379	0.0691687	0.22860489	2.6489822	21	3 10.9	19.3
179104 2001 SP_{210}	16.0	X	179.17646	206.80188	168.98943	6.18309	0.0499696	0.22581918	2.6707229	21	3 12.3	19.8
179105 2001 SC_{211}	16.5	X	33.89336	314.03670	59.87738	0.85131	0.0578508	0.20543548	2.8445861	21	12 20.8	20.4
179106 2001 SC_{214}	16.2	X	217.27497	270.20753	49.42957	3.27988	0.0615553	0.22382129	2.6865924	21	2 14.8	20.2
179107 2001 SP_{219}	16.7	X	99.26510	299.59323	72.15103	0.56239	0.0846351	0.21367385	2.7709911	21	—	—
179108 2001 SY_{235}	16.4	X	253.83030	123.80252	188.02683	3.02497	0.2266061	0.22817378	2.6523178	21	3 2.1	20.8
179109 2001 SQ_{236}	16.5	X	61.06073	197.68020	176.06946	6.42959	0.0456309	0.20874567	2.8144340	21	—	—
179110 2001 SP_{237}	16.3	X	56.52807	57.18342	41.14928	3.96583	0.1483098	0.21725224	2.7404794	21	1 29.9	19.2
179111 2001 SF_{238}	15.9	X	285.05245	358.43953	188.24621	16.50083	0.0128625	0.21342805	2.7731182	21	—	—
179112 2001 SD_{240}	16.3	X	200.45454	291.07724	33.36769	6.48534	0.0440158	0.22093646	2.7099282	21	2 3.4	20.3
179113 2001 SK_{241}	16.3	X	193.43883	143.39390	188.18237	4.89398	0.1766626	0.22175606	2.7032469	21	2 5.3	20.7
179114 2001 SE_{243}	16.9	X	352.38095	267.60920	27.04390	4.08499	0.2053202	0.23970598	2.5665524	21	7 5.6	18.9
179115 2001 SP_{243}	15.7	X	286.61676	286.06374	195.91295	13.12938	0.0922379	0.20155145	2.8810144	21	12 4.5	19.5
179116 2001 SH_{245}	16.0	X	212.73570	220.09094	22.30502	4.57106	0.0157867	0.20982041	2.8048150	21	—	—
179117 2001 SK_{249}	15.8	X	84.44165	230.28569	184.35418	5.75750	0.0418761	0.21496369	2.7598955	21	1 3.3	19.5
179118 2001 SU_{249}	15.7	X	270.61757	248.84140	42.49367	5.81245	0.1301253	0.22621748	2.6675871	21	3 4.9	19.7
179119 2001 SN_{250}	16.6	X	296.41113	265.71399	46.70464	5.95271	0.2443367	0.23430406	2.6058506	21	4 12.7	20.2
179120 2001 SZ_{253}	15.2	X	224.90161	329.86261	41.31963	9.50963	0.0902683	0.17910205	3.1169919	21	4 29.6	19.9

Planet		H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
		m		°	°	°	°		°				
179121	2001 SL_{255}	15.9	X	129.65775	171.50115	181.57791	5.73968	0.0587222	0.21365720	2.7711351	21	—	—
179122	2001 SJ_{257}	15.1	X	25.01437	114.97714	36.00776	13.45101	0.1251266	0.21898652	2.7259913	21	2 18.9	18.4
179123	2001 SX_{257}	15.9	X	67.16109	157.56473	228.86495	3.27967	0.0786040	0.21331847	2.7740678	21	—	—
179124	2001 SU_{265}	16.3	X	152.86590	103.81277	255.84763	0.91608	0.2509348	0.21851371	2.7299221	21	2 10.1	20.8
179125	2001 SP_{269}	16.1	X	29.59515	151.93888	1.52746	2.98315	0.0087385	0.22288764	2.6940898	21	2 22.9	19.7
179126	2001 SC_{271}	16.1	X	12.02283	297.39601	3.60290	12.97981	0.1712182	0.24326696	2.5414445	21	9 4.2	18.5
179127	2001 SR_{272}	15.3	X	357.52570	231.74806	28.68813	9.88942	0.1300327	0.23369888	2.6103473	21	5 24.1	18.2
179128	2001 SD_{276}	16.4	X	302.97801	35.40312	219.75250	20.42776	0.0467356	0.37480444	1.9051663	21	1 29.1	19.0
179129	2001 SQ_{278}	16.5	X	344.87338	253.67538	213.21659	20.88162	0.1063053	0.35654613	1.9696644	21	—	—
179130	2001 SM_{282}	16.1	X	341.19051	308.91335	1.06459	11.14605	0.1840908	0.24207783	2.5497604	21	7 6.7	18.6
179131	2001 SY_{286}	16.2	X	195.78739	239.81166	100.30980	7.74266	0.2457577	0.22331593	2.6906441	21	2 22.2	21.0
179132	2001 SM_{292}	16.0	X	162.64831	68.05252	313.16243	5.41848	0.0377312	0.22456360	2.6806687	21	2 25.5	19.6
179133	2001 SF_{293}	12.9	X	232.04585	20.16674	347.68568	9.47503	0.0433298	0.08496555	5.1243739	21	5 9.5	19.9
179134	2001 SW_{296}	16.5	X	310.77136	346.10569	323.71140	3.27415	0.0643441	0.23712181	2.5851657	21	5 18.0	19.8
179135	2001 SL_{301}	16.0	X	31.92020	284.23190	186.61621	9.91790	0.1455400	0.21653304	2.7465442	21	—	—
179136	2001 SE_{303}	16.1	X	247.19320	119.71432	185.29386	5.75546	0.0317182	0.22590635	2.6700358	21	3 1.5	19.8
179137	2001 SV_{305}	16.3	X	308.32197	294.94894	357.74963	2.30983	0.1206916	0.23264738	2.6182067	21	4 19.3	19.5
179138	2001 SU_{316}	15.3	X	258.35394	43.41422	316.53552	8.70595	0.1029075	0.18531650	3.0469125	21	5 18.0	19.9
179139	2001 SK_{319}	16.3	X	219.74483	139.74008	168.60167	4.34604	0.0580617	0.22259064	2.6964857	21	2 1.6	20.3
179140	2001 SU_{319}	16.1	X	13.09273	73.77353	157.88684	3.74955	0.0627299	0.23297956	2.6157175	21	5 14.8	19.2
179141	2001 SQ_{325}	15.9	X	97.58271	175.89066	173.99915	5.87139	0.0470350	0.21317049	2.7753515	21	—	—
179142	2001 SN_{327}	15.5	X	270.94333	6.74957	330.88996	14.06943	0.2929713	0.23360976	2.6110111	21	4 4.9	20.1
179143	2001 SP_{343}	15.8	X	107.16834	260.61810	118.77419	7.79301	0.0803571	0.21445099	2.7642926	21	—	—
179144	2001 SS_{344}	15.4	X	210.62584	326.21133	301.24201	8.03787	0.1284452	0.21654165	2.7464714	21	—	—
179145	2001 SZ_{347}	16.5	X	348.52080	63.57837	222.64489	4.18617	0.2246500	0.24092234	2.5579065	21	6 8.9	18.4
179146	2001 SJ_{353}	16.2	X	11.96030	245.98922	206.21394	3.78401	0.0255208	0.21258892	2.7804108	21	—	—
179147	2001 TH_{11}	15.6	X	199.42702	324.47836	7.44531	3.84838	0.2220289	0.22204149	2.7009298	21	2 13.9	20.3
179148	2001 TD_{15}	15.7	X	88.11558	256.33557	101.07242	8.48220	0.2458831	0.20930471	2.8094203	21	—	—
179149	2001 TT_{16}	17.0	X	57.04371	296.89656	106.24191	24.82564	0.1063389	0.35691110	1.9683214	21	—	—
179150	2001 TB_{20}	14.7	X	253.99625	21.89369	344.10793	10.06422	0.1082279	0.18129164	3.0918437	21	5 19.6	19.5
179151	2001 TD_{21}	15.6	X	158.33084	333.58360	355.90501	13.68875	0.2204892	0.21502441	2.7593759	21	1 12.0	20.3
179152	2001 TG_{22}	16.2	X	135.15124	222.99844	136.69546	4.19637	0.1421600	0.21621117	2.7492694	21	1 13.1	20.2
179153	2001 TO_{23}	16.4	X	299.12946	292.28201	23.94303	4.25725	0.0681532	0.23325969	2.6136228	21	5 16.5	19.6
179154	2001 TG_{25}	16.1	X	86.16420	170.99959	249.48088	4.01119	0.0900596	0.21635072	2.7480870	21	1 18.3	19.5
179155	2001 TU_{29}	16.3	X	243.63587	305.54439	8.80347	13.11813	0.1747134	0.22645347	2.6657335	21	3 4.2	20.7
179156	2001 TV_{30}	15.9	X	250.13579	147.06078	178.74175	10.63609	0.1008073	0.22687239	2.6624510	21	3 26.5	19.9
179157	2001 TX_{31}	15.7	X	84.59654	77.78935	303.15894	6.36024	0.2414829	0.20954753	2.8072495	21	—	—
179158	2001 TZ_{34}	15.3	X	198.76844	328.06146	18.79540	9.47625	0.1787231	0.22073201	2.7116013	21	3 4.4	19.9
179159	2001 TF_{48}	15.6	X	298.21627	315.93831	72.29995	2.83820	0.1070046	0.18935902	3.0033922	21	8 18.1	19.4
179160	2001 TZ_{55}	15.9	X	76.77159	301.20963	75.86242	4.61252	0.1036304	0.20995930	2.8035780	21	—	—
179161	2001 TF_{58}	16.1	X	271.12537	98.79535	203.44565	5.37924	0.0858933	0.22796480	2.6539385	21	3 20.2	19.8
179162	2001 TZ_{58}	16.1	X	208.80919	341.34685	7.18878	2.28589	0.1186099	0.22506937	2.6766512	21	3 11.8	20.2
179163	2001 TJ_{69}	15.6	X	335.89675	151.85136	25.86238	7.75776	0.1047502	0.21740406	2.7392034	21	1 3.7	19.3
179164	2001 TE_{73}	15.6	X	31.72016	86.49306	27.90982	11.25717	0.0809333	0.21413453	2.7670154	21	1 8.7	19.1
179165	2001 TL_{73}	15.3	X	220.89023	270.14850	38.53406	12.60695	0.0997990	0.22001070	2.7175248	21	2 9.2	19.7
179166	2001 TZ_{74}	15.4	X	145.82557	328.18898	47.75646	9.02543	0.1722693	0.21811532	2.7332453	21	2 20.6	19.7
179167	2001 TC_{78}	15.5	X	35.13090	305.88120	57.07064	6.57093	0.1536400	0.20087299	2.8874979	21	12 21.2	19.4
179168	2001 TX_{83}	15.9	X	68.93853	58.14070	331.84807	6.66067	0.0529135	0.21156722	2.7893550	21	—	—
179169	2001 TA_{89}	15.7	X	309.24397	240.24019	8.53314	12.55600	0.1609044	0.22666215	2.6640971	21	2 21.8	19.4
179170	2001 TD_{91}	15.3	X	265.37018	326.54737	4.62337	9.59593	0.1007540	0.18139468	3.0906728	21	4 20.5	19.9
179171	2001 TF_{91}	16.0	X	147.90860	345.68800	351.33069	4.90041	0.0551011	0.21477135	2.7615430	21	—	—
179172	2001 TK_{94}	15.7	X	64.92111	25.39957	355.38230	5.37049	0.0580478	0.20841060	2.8174497	21	—	—
179173	2001 TP_{104}	16.2	X	252.52028	247.84485	191.75927	6.36362	0.1946137	0.18867700	3.0106255	21	8 9.5	20.8
179174	2001 TR_{108}	16.2	X	353.22849	320.47580	319.82613	3.44780	0.2620650	0.23910932	2.5708202	21	6 7.5	17.8
179175	2001 TC_{110}	15.9	X	272.55737	79.95629	345.85618	4.03453	0.1856922	0.18999391	2.9966976	21	8 19.2	20.0
179176	2001 TA_{114}	15.7	X	112.77136	97.81655	253.73761	6.65275	0.3098756	0.21182763	2.7870685	21	—	—
179177	2001 TB_{120}	15.4	X	303.25670	295.75910	307.10508	11.67299	0.1262032	0.22311461	2.6922623	21	2 6.6	19.0
179178	2001 TC_{121}	15.5	X	41.32730	87.57391	353.86580	15.93206	0.0899955	0.21135331	2.7912368	21	—	—
179179	2001 TF_{123}	16.6	X	220.07538	140.82244	209.64092	22.11589	0.0527967	0.37765939	1.8955527	21	2 27.4	19.2
179180	2001 TK_{126}	16.5	X	342.77905	257.35753	7.12719	2.56309	0.0907056	0.23383632	2.6093244	21	5 7.9	19.4
179181	2001 TE_{135}	16.1	X	148.25591	28.08293	337.45716	12.27036	0.1188973	0.21906590	2.7253327	21	2 3.1	20.2
179182	2001 TS_{135}	15.9	X	278.07814	319.08727	333.00651	11.93354	0.1687418	0.22899324	2.6459864	21	3 4.8	19.9
179183	2001 TB_{140}	16.2	X	120.03577	229.86108	131.67388	7.07063	0.0397638	0.21643709	2.7473559	21	—	—
179184	2001 TT_{144}	15.4	X	335.62190	258.01275	49.14773	11.87319	0.0363059	0.18709851	3.0275349	21	7 2.6	19.6
179185	2001 TW_{144}	16.1	X	73.39480	267.74170	157.09610	6.03379	0.0369534	0.21585718	2.7522743	21	—	—
179186	2001 TL_{146}	16.2	X	148.63652	246.06718	127.00663	4.07854	0.0853076	0.21951882	2.7215827	21	2 6.6	19.9
179187	2001 TY_{147}	16.4	X	72.58902	222.57363	150.42155	6.74015	0.0835516	0.20869708	2.8148708	21	—	—
179188	2001 TD_{150}	16.2	X	231.91139	300.26569	119.37271	5.44937	0.3563291	0.18411637	3.0601388	21	6 16.6	21.7
179189	2001 TU_{151}	15.7	X	227.80286	164.89690	185.56024	15.07708	0.1045138	0.22721204	2.6597970	21	4 2.6	19.7
179190	2001 TS_{154}	12.6	X	332.60794	194.90719	86.88052	11.35716	0.0730526	0.08444364	5.1454667	21	5 29.1	19.1
179191	2001 TV_{155}	16.6	X	344.36295	64.87599	14.37322	1.85888	0.0478333	0.20632969	2.8363614	21	—	—
179192	2001 TN_{162}	16.5	X	303.48365	347.25607	310.04373	1.41394	0.1321330	0.23307868	2.6149758	21	4 16.7	19.7
179193	2001 TC_{163}	16.7	X	67.02436	80.63869	309.55561	2.32181	0.0804155	0.21061700	2.7977384	21	—	—
179194	2001 TN_{163}	16.3	X	91.10268	251.01371	194.87789	2.66468	0.0585700	0.22094539	2.7098552	21	2 21.7	19.9
179195	2001 TP_{163}	16.4	X	151.38705	353.39845	36.64611	6.64259	0.0316477	0.22243458	2.6977468	21	2 27.2	20.1
179196	2001 TE_{164}	16.1	X	107.27866	154.78645	198.59610	3.86377	0.0911518	0.21062283	2.7976868	21	—	—
179197	2001 TC_{172}	16.0	X	142.63083	315.35659	47.63839	4.83430	0.1287971	0.21862958	2.7289575	21	1 24.9	20.0
179198	2001 TZ_{172}	16.3	X	276.89371	82.68222	201.46579	4.35340	0.0749694	0.22594067	2.6697654	21	3 5.5	20.2
179199	2001 TH_{175}	16.1	X	103.76482	190.47084	212.96117	8.78900	0.1335698	0.21833533	2.7314088	21	1 24.9	19.9
179200	2001 TU_{175}	16.5	X	102.93530	118.51478	287.72087	2.82235	0.0748117	0.21801081	2.7341187	21	1 21.4	20.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
179201 2001 TE_{178}	16.1	X	91.67880	83.14812	301.56183	5.43821	0.0633828	0.21244436	2.7816719	21	—	—
179202 2001 TL_{179}	15.7	X	260.82487	18.41912	14.99091	13.94062	0.1298534	0.18689415	3.0297415	21	7 2.6	20.4
179203 2001 TA_{185}	16.1	X	65.39035	178.79003	231.34937	5.78041	0.0203794	0.21237086	2.7823137	21	—	—
179204 2001 TD_{185}	15.4	X	43.38826	236.36657	9.00093	8.76381	0.0997627	0.18736821	3.0246290	21	7 27.5	19.4
179205 2001 TM_{185}	16.3	X	255.27987	98.80133	339.16578	4.14349	0.1867877	0.18931641	3.0038428	21	8 13.9	20.9
179206 2001 TW_{187}	16.0	X	229.58653	1.95094	328.65134	3.26486	0.1788158	0.22477988	2.6789489	21	3 6.9	20.5
179207 2001 TX_{196}	16.3	X	324.94899	138.81016	169.49774	12.78666	0.2731601	0.23751354	2.5823225	21	5 16.2	19.2
179208 2001 TN_{199}	15.4	X	203.57297	314.82382	78.64203	6.32133	0.1155196	0.18093142	3.0959461	21	5 5.4	20.4
179209 2001 TX_{199}	15.6	X	74.40491	248.12135	139.76047	9.86965	0.1658530	0.21147815	2.7901382	21	—	—
179210 2001 TJ_{202}	16.2	X	256.49220	231.58263	86.68970	9.25145	0.1902482	0.22932937	2.6434003	21	3 20.2	20.5
179211 2001 TU_{206}	16.7	X	254.07248	333.31046	325.68017	0.25172	0.1087249	0.22605645	2.6688538	21	2 24.2	20.8
179212 2001 TK_{213}	15.9	X	248.06590	317.89242	342.82357	12.88889	0.2516019	0.22643005	2.6659173	21	2 14.2	20.6
179213 2001 TY_{217}	15.1	X	144.30755	315.97074	46.00966	15.30503	0.2333480	0.22077746	2.7112292	21	2 10.2	19.7
179214 2001 TR_{218}	16.3	X	282.99261	128.20085	172.18652	7.90405	0.2696513	0.23130122	2.6283554	21	3 10.2	20.3
179215 2001 TO_{221}	15.8	X	154.42293	345.39730	322.80684	6.70336	0.0794753	0.21136075	2.7911713	21	—	—
179216 2001 TE_{224}	15.7	X	212.47794	48.02198	242.63057	9.95482	0.0810507	0.21571393	2.7534926	21	1 4.2	20.0
179217 2001 TB_{225}	13.8	X	254.95255	194.68780	174.90002	0.87530	0.0855095	0.08392592	5.1666056	21	6 3.7	20.8
179218 2001 TQ_{225}	15.3	X	273.17750	80.98118	28.17814	10.58126	0.0415726	0.19645585	2.9306193	21	11 3.3	19.2
179219 2001 TB_{238}	15.8	X	82.80651	269.59987	33.21821	13.64100	0.2491009	0.25549688	2.4596821	21	12 18.4	20.0
179220 2001 TT_{241}	16.0	X	38.02643	109.29363	268.16624	1.01190	0.0786678	0.20301109	2.8671882	21	—	—
179221 2001 TP_{244}	16.7	X	27.35136	228.75775	214.18116	3.19712	0.0756446	0.21344352	2.7729842	21	—	—
179222 2001 TT_{256}	16.6	X	48.26174	129.67005	263.75749	1.01279	0.0934367	0.20673144	2.8326855	21	—	—
179223 2001 TA_{257}	16.2	X	341.52721	4.95594	154.45102	5.94973	0.0024103	0.21665629	2.7455025	21	—	—
179224 2001 UG_{1}	16.7	X	349.55815	108.89462	6.25447	19.76445	0.1041499	0.35929311	1.9596121	21	—	—
179225 2001 UB_{9}	16.1	X	183.83847	302.54253	55.58991	6.09893	0.0708527	0.22158576	2.7046318	21	2 28.1	20.1
179226 2001 UX_{10}	15.5	X	255.25236	217.20812	202.77960	6.21478	0.1709204	0.18493241	3.0511299	21	7 21.9	20.2
179227 2001 UG_{14}	17.2	X	23.72212	98.90821	2.78303	19.59035	0.0579145	0.36327987	1.9452488	21	—	—
179228 2001 UX_{14}	15.5	X	243.93436	239.36778	230.58128	4.81499	0.2068722	0.18891685	3.0080768	21	9 5.5	20.1
179229 2001 UF_{19}	16.1	X	167.65042	277.35901	83.85492	6.80839	0.0912521	0.22270689	2.6955472	21	2 15.1	20.1
179230 2001 UJ_{27}	16.0	X	28.62939	139.98948	297.01061	3.54103	0.0283675	0.21178869	2.7874101	21	—	—
179231 2001 UA_{30}	15.9	X	317.69731	175.69592	151.57855	9.00085	0.2483398	0.23942333	2.5685719	21	6 3.1	18.8
179232 2001 UY_{39}	16.1	X	242.85531	55.99174	35.57870	8.63092	0.3251178	0.18656629	3.0332900	21	8 6.7	21.3
179233 2001 UQ_{60}	13.1	X	293.85237	13.23476	299.76444	3.89427	0.0976985	0.08364655	5.1781031	21	5 11.1	19.9
179234 2001 UT_{62}	16.0	X	46.56739	98.61235	251.54227	1.05747	0.0790068	0.20311620	2.8661990	21	12 10.0	19.9
179235 2001 UR_{63}	16.2	X	32.89968	99.55385	352.23473	2.76880	0.0733661	0.21183779	2.7869794	21	—	—
179236 2001 UC_{71}	16.2	X	180.91958	91.70769	216.74259	4.69679	0.0463211	0.21318849	2.7751953	21	—	—
179237 2001 UD_{78}	16.4	X	131.99469	216.84836	146.71770	3.34668	0.1072877	0.21608286	2.7503577	21	1 9.6	20.2
179238 2001 UV_{82}	16.3	X	197.40920	160.18412	171.59295	3.71339	0.0982725	0.21984410	2.7188975	21	2 7.7	20.4
179239 2001 UQ_{84}	16.5	X	326.65439	182.74785	203.10002	0.99537	0.2065268	0.19397038	2.9556008	21	9 20.7	19.5
179240 2001 UC_{87}	16.8	X	74.59690	90.13463	256.43284	0.88130	0.0237257	0.20325292	2.8649136	21	12 31.9	20.9
179241 2001 UQ_{89}	16.5	X	81.08711	200.33496	192.56605	4.15388	0.0803637	0.21275096	2.7789988	21	—	—
179242 2001 UF_{96}	15.9	X	209.43717	82.58013	192.17245	3.03307	0.0531101	0.21401009	2.7680879	21	—	—
179243 2001 UH_{97}	15.7	X	255.70044	116.89901	32.05538	7.93714	0.1560652	0.19988908	2.8969656	21	11 14.8	19.6
179244 2001 UP_{100}	13.1	X	306.04502	283.52870	33.08186	3.64334	0.1016518	0.08421509	5.1547719	21	5 30.3	19.7
179245 2001 UM_{101}	16.0	X	27.26514	318.29424	174.41040	6.68907	0.0090280	0.21909931	2.7250557	21	1 23.2	19.8
179246 2001 US_{101}	16.3	X	103.78211	343.47103	48.43992	6.54293	0.0459443	0.21545007	2.7557403	21	1 1.5	20.0
179247 2001 UY_{102}	16.1	X	346.86670	294.49511	202.06903	6.99915	0.1653585	0.21071373	2.7968821	21	—	—
179248 2001 UO_{104}	16.2	X	234.28498	57.35630	120.42301	3.14716	0.0099267	0.20315774	2.8658083	21	12 16.5	20.1
179249 2001 UK_{106}	16.0	X	154.89790	280.89714	67.30631	6.28391	0.0687505	0.21569073	2.7536901	21	1 13.4	20.0
179250 2001 UV_{106}	16.1	X	299.07195	8.67563	43.35824	9.70990	0.1098116	0.19264518	2.9691396	21	9 23.3	19.9
179251 2001 UP_{111}	16.3	X	169.74123	93.24944	228.26704	4.95963	0.0835386	0.21488617	2.7605593	21	—	—
179252 2001 UR_{128}	15.7	X	217.94567	13.11921	7.23097	28.49675	0.0611087	0.23248955	2.6193916	21	4 19.8	19.8
179253 2001 UF_{130}	16.4	X	339.10539	68.74800	193.67879	4.07457	0.1281586	0.23145046	2.6272255	21	4 26.0	19.1
179254 2001 UJ_{131}	16.0	X	24.81074	299.09635	108.75097	3.19495	0.0653581	0.20463544	2.8519953	21	—	—
179255 2001 UY_{134}	15.0	X	243.95054	28.72676	49.85684	18.29576	0.1400665	0.18580568	3.0415624	21	8 15.0	19.9
179256 2001 US_{136}	16.7	X	122.81635	18.55039	7.42423	24.43552	0.0772099	0.37026434	1.9207085	21	—	—
179257 2001 UO_{140}	16.6	X	114.08116	164.96492	165.78368	3.82095	0.0955410	0.20859560	2.8157836	21	—	—
179258 2001 UF_{142}	16.2	X	38.52151	4.13861	62.69580	4.82923	0.0866089	0.20901792	2.8119896	21	—	—
179259 2001 UR_{143}	15.9	X	192.16381	252.76163	39.14558	4.94151	0.0420457	0.21238633	2.7821786	21	—	—
179260 2001 UO_{148}	16.1	X	335.44083	161.45721	149.29504	3.12461	0.2271854	0.23744453	2.5828228	21	6 16.8	18.2
179261 2001 UZ_{151}	15.7	X	258.87582	210.31262	225.74334	10.93621	0.1401407	0.18759275	3.0222149	21	8 16.6	20.3
179262 2001 UC_{157}	15.6	X	94.41801	149.46277	222.16263	4.37896	0.0639557	0.20851965	2.8164674	21	—	—
179263 2001 UH_{157}	16.5	X	288.10495	229.52527	183.31422	1.04549	0.1773371	0.18962632	3.0005691	21	8 23.7	20.5
179264 2001 UT_{164}	15.5	X	160.77149	253.11481	58.74044	9.95019	0.1993074	0.21654513	2.7464420	21	—	—
179265 2001 UJ_{166}	16.7	X	309.36891	337.97434	329.53047	3.35404	0.1556500	0.23453560	2.6041352	21	5 4.7	20.0
179266 2001 UY_{176}	16.2	X	279.53697	344.18577	227.58056	2.24354	0.0204753	0.21409132	2.7673877	21	—	—
179267 2001 UZ_{177}	15.4	X	268.20059	61.12572	54.53911	11.32215	0.0994287	0.19555112	2.9396515	21	10 30.9	19.4
179268 2001 UC_{187}	16.3	X	149.52693	330.30381	38.29022	6.32606	0.0724898	0.22021613	2.7158345	21	2 2.6	20.2
179269 2001 UE_{190}	16.1	X	31.38246	165.87847	316.68267	4.15338	0.0645483	0.21847230	2.7302671	21	1 16.7	19.3
179270 2001 UW_{195}	16.0	X	139.40123	264.39661	202.41791	0.54051	0.1589486	0.17728645	3.1382367	21	6 2.7	21.0
179271 2001 UX_{200}	16.4	X	140.50212	107.56266	229.15905	2.82333	0.1015827	0.21376841	2.7701739	21	—	—
179272 2001 UA_{202}	16.7	X	303.27803	318.36327	355.10275	3.12851	0.1305991	0.23384587	2.6092533	21	5 8.4	19.9
179273 2001 UX_{203}	15.9	X	34.27123	189.07253	264.47100	2.33803	0.0579749	0.21223053	2.7835401	21	—	—
179274 2001 UH_{213}	16.4	X	109.28269	351.06985	49.67512	2.74194	0.0834071	0.21736012	2.7395725	21	1 25.2	20.1
179275 2001 UH_{214}	15.5	X	49.30280	159.77455	65.90549	6.27867	0.2089800	0.23465998	2.6032149	21	7 26.5	18.4
179276 2001 UC_{218}	16.7	X	10.35775	298.15508	248.00668	20.53628	0.0541980	0.37229469	1.9137189	21	1 25.6	19.0
179277 2001 UT_{220}	16.2	X	179.08799	65.94041	261.88301	2.09015	0.0898601	0.21544020	2.7558245	21	1 16.0	20.1
179278 2001 UQ_{221}	16.1	X	221.21390	234.27138	67.16830	2.38007	0.1000381	0.21879208	2.7276060	21	1 27.3	20.2
179279 2001 UX_{222}	15.8	X	263.67208	270.99908	157.38497	14.80325	0.1205740	0.18770008	3.0210627	21	8 19.2	20.1
179280 2001 UF_{226}	16.0	X	344.13977	45.65753	123.64364	4.37549	0.1312006	0.21738667	2.7393495	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
179281 2001 VT_4	16.6	X	313.20531	236.59424	246.21579	17.51742	0.1069650	0.35261036	1.9842939	21	—	—
179282 2001 VY_5	16.1	X	326.08834	251.59853	200.98481	4.75239	0.1555369	0.20097428	2.8865277	21	12 25.7	19.2
179283 2001 VR_6	15.5	X	251.62533	20.85534	27.95465	2.76080	0.2132915	0.18558099	3.0440169	21	6 30.9	20.3
179284 2001 VU_7	16.4	X	330.40544	74.89478	246.42645	3.69655	0.2627320	0.23875981	2.5733285	21	6 15.9	18.3
179285 2001 VP_{11}	15.8	X	154.06729	3.52886	350.77519	8.18026	0.1978077	0.21625159	2.7489268	21	2 3.2	20.2
179286 2001 VG_{14}	15.8	X	136.28522	33.94469	338.67798	6.21362	0.0783393	0.21407673	2.7675135	21	1 23.9	19.7
179287 2001 VM_{25}	15.6	X	347.39185	295.25079	49.72200	7.96762	0.1427751	0.19048569	2.9915377	21	9 11.7	19.1
179288 2001 VL_{26}	15.9	X	272.51512	262.91381	47.22850	6.41505	0.3682263	0.22919028	2.6444697	21	3 7.9	20.6
179289 2001 VO_{27}	15.7	X	15.64752	313.50043	72.37018	4.60521	0.3445254	0.20012579	2.8946808	21	—	—
179290 2001 VD_{31}	15.4	X	97.55865	146.01627	241.80351	5.84236	0.0687696	0.20955838	2.8071526	21	—	—
179291 2001 VU_{42}	15.1	X	281.08646	142.75510	254.06664	10.71990	0.1417654	0.18555658	3.0442838	21	7 26.2	19.4
179292 2001 VR_{53}	15.6	X	249.43417	69.16133	18.14280	5.98575	0.2230179	0.18768023	3.0212757	21	8 16.7	20.3
179293 2001 VY_{54}	15.7	X	261.06602	48.74420	14.93409	10.32799	0.0935443	0.18816313	3.0161044	21	8 19.0	20.1
179294 2001 VK_{55}	15.6	X	136.22834	11.42159	320.08290	4.34348	0.2126088	0.21233344	2.7826406	21	—	—
179295 2001 VU_{56}	15.5	X	161.31694	335.24134	10.37743	9.78890	0.1731627	0.21674249	2.7447746	21	1 29.6	19.9
179296 2001 VS_{60}	15.8	X	56.70364	84.90590	16.09602	5.75339	0.0396195	0.21508947	2.7588195	21	1 26.8	19.4
179297 2001 VB_{62}	15.9	X	96.85774	90.23795	305.22986	3.19294	0.0595772	0.21212337	2.7844774	21	—	—
179298 2001 VG_{70}	15.5	X	178.11329	164.76437	342.44615	5.93756	0.1512502	0.18416808	3.0595659	21	8 26.8	20.4
179299 2001 VK_{77}	14.5	X	213.98537	268.94049	64.84506	25.92094	0.2736622	0.17336139	3.1854281	21	3 16.1	20.6
179300 2001 VL_{80}	16.0	X	324.05952	102.59893	292.17401	4.21274	0.1533507	0.19445926	2.9506450	21	9 30.3	19.4
179301 2001 VF_{85}	15.9	X	137.79530	278.30381	77.44683	6.45342	0.0834170	0.21339958	2.7733649	21	1 4.7	19.8
179302 2001 VO_{85}	16.1	X	140.66172	68.62096	274.54628	3.30241	0.1064555	0.21223777	2.7834767	21	—	—
179303 2001 VF_{89}	15.6	X	192.75152	29.01152	315.42935	7.61443	0.0689394	0.22022435	2.7157669	21	2 16.9	19.5
179304 2001 VW_{95}	15.6	X	272.71709	328.42763	118.23946	12.56118	0.0772603	0.19189746	2.9768473	21	10 6.8	19.8
179305 2001 VS_{98}	15.2	X	289.48151	223.12690	180.41094	12.86946	0.0957863	0.18685642	3.0301494	21	8 23.7	19.4
179306 2001 VA_{100}	15.6	X	234.17302	234.90463	185.54643	15.01833	0.3195999	0.18191021	3.0848307	21	6 20.9	21.3
179307 2001 VV_{100}	16.1	X	313.67560	222.95236	45.19786	4.59314	0.1055451	0.22645018	2.6657593	21	3 30.2	19.4
179308 2001 VE_{101}	15.8	X	205.30658	333.48040	24.72386	6.63886	0.0261593	0.22250920	2.6971436	21	3 22.1	19.5
179309 2001 VF_{109}	15.9	X	195.27310	118.70183	36.70611	5.81769	0.1567956	0.18848109	3.0127114	21	9 22.8	20.8
179310 2001 VN_{112}	15.8	X	142.68076	343.10880	2.86894	4.13987	0.0770860	0.21099631	2.7943843	21	—	—
179311 2001 VL_{126}	16.3	X	161.66944	181.62142	172.93550	2.21882	0.0896639	0.21569464	2.7536568	21	1 29.6	20.3
179312 2001 VM_{126}	16.4	X	263.47081	276.53995	113.18518	2.54900	0.2026256	0.18477126	3.0529037	21	6 20.4	21.0
179313 2001 WY_{16}	15.3	X	312.39810	27.55590	234.28921	9.54280	0.1990754	0.22767656	2.6561779	21	2 27.5	19.0
179314 2001 WR_{18}	16.1	X	206.36764	93.56392	240.16798	4.16855	0.0242886	0.22016515	2.7162537	21	2 17.1	19.9
179315 2001 WX_{18}	16.2	X	50.57716	112.06435	21.51319	2.12535	0.0207325	0.21999990	2.7176138	21	2 25.9	19.6
179316 2001 WD_{19}	16.1	X	92.29623	29.83843	359.62002	1.64121	0.0909262	0.21178707	2.7874243	21	—	—
179317 2001 WJ_{21}	16.0	X	309.38122	270.20342	293.97940	1.54633	0.0053150	0.21511559	2.7585961	21	1 16.7	19.5
179318 2001 WV_{23}	16.3	X	168.59780	299.13483	50.17136	2.18374	0.0795271	0.21601556	2.7509288	21	1 30.9	20.3
179319 2001 WW_{23}	16.3	X	65.94487	172.91775	243.66302	1.70296	0.0919783	0.20997414	2.8034458	21	—	—
179320 2001 WH_{30}	16.2	X	53.39933	210.98472	180.87460	1.91264	0.0777589	0.20565236	2.8425859	21	—	—
179321 2001 WE_{34}	15.8	X	225.03503	9.79742	89.71289	4.95483	0.1785874	0.18460561	3.0547297	21	8 11.2	20.7
179322 2001 WF_{44}	16.2	X	74.45096	278.78845	93.53393	3.10982	0.0762567	0.20656110	2.8342426	21	—	—
179323 2001 WJ_{45}	16.3	X	358.55636	125.28384	50.22387	2.39165	0.0270433	0.21814166	2.7330252	21	2 10.4	19.8
179324 2001 WS_{46}	16.2	X	176.73821	70.00982	58.21116	6.32547	0.2370390	0.17984138	3.1084434	21	8 3.6	21.7
179325 2001 WU_{47}	15.4	X	218.55830	199.51236	107.75800	10.22447	0.0551196	0.21766388	2.7370232	21	2 1.8	19.4
179326 2001 WX_{53}	16.2	X	191.17143	253.12238	41.50406	7.61310	0.0985595	0.21313856	2.7756286	21	—	—
179327 2001 WY_{55}	16.8	X	242.85040	312.42421	21.87011	1.62090	0.1616909	0.22654259	2.6650343	21	3 24.7	21.1
179328 2001 WU_{58}	16.4	X	327.21386	181.32163	221.22104	1.11049	0.0948061	0.19539250	2.9412422	21	10 22.0	20.0
179329 2001 WZ_{59}	15.4	X	6.88487	207.16004	50.10272	6.70605	0.2343646	0.23186130	2.6241211	21	6 9.2	17.3
179330 2001 WL_{67}	16.2	X	268.43987	182.76493	201.54191	1.12817	0.1309935	0.18579274	3.0417036	21	6 28.6	20.5
179331 2001 WZ_{68}	16.6	X	219.07308	319.24486	144.68699	1.41356	0.1923674	0.18505956	3.0497321	21	8 8.7	21.5
179332 2001 WZ_{96}	16.4	X	259.50498	231.78772	59.43711	4.24021	0.2554564	0.22315384	2.6919468	21	2 11.5	21.0
179333 2001 XX_8	15.5	X	64.41317	14.64784	31.28161	6.53868	0.0642408	0.20685805	2.8315296	21	—	—
179334 2001 XC_{13}	15.2	X	292.59319	51.55283	320.01987	10.46265	0.1008161	0.18274618	3.0754158	21	7 19.9	19.3
179335 2001 XA_{19}	15.1	X	183.62405	55.81311	65.15780	16.68212	0.1156959	0.17939528	3.1135944	21	8 3.9	20.3
179336 2001 XT_{21}	15.1	X	281.21774	280.10575	70.15560	13.88159	0.1909310	0.22878546	2.6475882	21	5 21.9	18.8
179337 2001 XH_{36}	15.4	X	254.29691	72.96885	3.78639	8.22973	0.1402713	0.18633545	3.0357946	21	8 19.3	19.8
179338 2001 XX_{45}	15.0	X	201.45811	162.19090	317.59174	15.94547	0.1203024	0.18025903	3.1036401	21	8 14.9	19.7
179339 2001 XC_{61}	15.3	X	180.48782	260.31661	248.18558	10.16118	0.1102645	0.18380119	3.0636360	21	8 25.9	20.3
179340 2001 XH_{64}	15.4	X	297.23169	299.75807	111.48970	11.47514	0.1078380	0.18923296	3.0047259	21	9 19.9	19.4
179341 2001 XF_{77}	15.5	X	289.23418	346.24819	75.29262	10.62003	0.0562800	0.19058241	2.9905255	21	9 29.8	19.7
179342 2001 XO_{89}	15.9	X	200.46412	266.68929	56.69468	6.21350	0.2359828	0.21961169	2.7208154	21	2 6.4	20.7
179343 2001 XW_{90}	16.0	X	137.39258	85.38848	280.63118	3.70855	0.0882955	0.21367532	2.7709784	21	1 16.9	19.7
179344 2001 XR_{96}	15.4	X	44.05613	325.87038	66.05531	3.09518	0.0683213	0.20182997	2.8783633	21	—	—
179345 2001 XP_{107}	15.5	X	158.64384	73.56186	80.32373	11.98777	0.0833587	0.18201414	3.0836562	21	8 19.1	20.4
179346 2001 XQ_{107}	15.8	X	299.23068	161.77017	256.66652	7.78524	0.0797398	0.19055434	2.9908191	21	9 26.9	19.8
179347 2001 XV_{116}	14.9	X	116.30757	257.75309	71.30558	12.98528	0.0284844	0.20033103	2.8927033	21	—	—
179348 2001 XV_{120}	16.2	X	168.31999	270.76453	63.92566	7.53231	0.0672053	0.21450079	2.7638648	21	1 12.2	20.3
179349 2001 XW_{122}	15.6	X	195.36729	198.38984	87.68791	4.54251	0.0417310	0.21000130	2.8032041	21	—	—
179350 2001 XG_{123}	15.7	X	143.09435	101.31921	220.27679	7.17511	0.1400178	0.20928999	2.8095520	21	—	—
179351 2001 XE_{128}	15.9	X	322.78011	255.85703	105.63071	2.35617	0.1729319	0.18894735	3.0077531	21	8 12.8	19.3
179352 2001 XA_{130}	16.0	X	214.24019	215.58966	85.00764	4.18506	0.1173684	0.21471947	2.7619878	21	1 20.1	20.3
179353 2001 XG_{134}	15.8	X	298.56240	181.53106	243.60539	2.47353	0.0600876	0.19164091	2.9795035	21	10 10.0	19.8
179354 2001 XJ_{135}	15.8	X	110.53498	154.35738	225.94658	3.66003	0.0860768	0.21033676	2.8002229	21	1 1.9	19.5
179355 2001 XF_{138}	15.5	X	234.06547	240.11864	238.78063	9.59181	0.0506543	0.18904161	3.0067532	21	9 22.7	20.1
179356 2001 XH_{147}	16.0	X	333.85922	234.12006	192.97669	1.35597	0.0970883	0.19623774	2.9327904	21	12 4.0	19.4
179357 2001 XP_{154}	15.8	X	275.57859	185.74051	264.02300	2.09048	0.1591910	0.18978255	2.9989222	21	9 25.2	19.7
179358 2001 XC_{160}	15.2	X	21.07460	30.87058	252.47847	8.10843	0.0219138	0.18028188	3.1033779	21	7 31.5	19.6
179359 2001 XA_{179}	15.0	X	252.29371	160.47759	278.82996	10.92770	0.0693690	0.18302454	3.0722968	21	8 22.0	19.6
179360 2001 XH_{187}	16.1	X	202.19596	320.17575	149.89765	1.86718	0.1173920	0.17938151	3.1137538	21	8 4.5	20.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
179361 2001 XL_{192}	15.9	X	275.82965	315.41934	126.07449	2.24798	0.0573694	0.18621306	3.0371247	21	10 1.7	20.1
179362 2001 XH_{196}	14.9	X	308.45580	81.63682	293.10399	11.04277	0.0485356	0.18052643	3.1005746	21	8 17.3	19.1
179363 2001 XV_{201}	16.2	X	234.69132	270.99668	172.07796	0.94659	0.1578521	0.18051169	3.1007434	21	7 31.7	21.0
179364 2001 XZ_{205}	15.3	X	297.15970	208.20796	225.52038	10.09850	0.0495060	0.19253434	2.9702791	21	10 20.0	19.3
179365 2001 XZ_{206}	15.5	X	199.61417	358.00299	91.58536	17.29947	0.1817515	0.17983433	3.1085246	21	7 5.4	20.6
179366 2001 XC_{214}	15.4	X	240.94375	226.18773	193.45238	3.91409	0.2943061	0.18159041	3.0884515	21	6 26.9	20.6
179367 2001 XP_{217}	15.3	X	121.04741	100.52980	106.56459	10.94523	0.0483475	0.18103337	3.0947837	21	9 10.5	19.9
179368 2001 XB_{220}	15.7	X	230.71963	193.39724	265.30800	8.74208	0.0803881	0.18668090	3.0320484	21	8 20.5	20.3
179369 2001 XV_{225}	15.4	X	306.88332	116.24138	257.34842	9.58995	0.0708635	0.18656230	3.0333332	21	8 10.7	19.6
179370 2001 XV_{226}	15.5	X	43.77529	57.68872	274.44903	9.17247	0.0779241	0.19510081	2.9441730	21	11 10.6	19.6
179371 2001 XD_{230}	15.6	X	250.99575	345.20142	72.28104	5.64909	0.2431813	0.18447045	3.0562217	21	7 8.1	20.4
179372 2001 XF_{232}	16.2	X	298.47122	123.99853	302.09445	2.08217	0.0504885	0.19160870	2.9798374	21	10 11.9	20.3
179373 2001 XB_{234}	15.5	X	323.18741	94.63316	268.43995	9.13632	0.1113848	0.18723801	3.0260310	21	8 17.3	19.3
179374 2001 XV_{234}	16.0	X	205.09244	121.73817	29.10084	2.96260	0.0832465	0.18875718	3.0097729	21	9 30.3	20.5
179375 2001 XH_{235}	16.3	X	340.63330	116.39473	300.69222	1.81349	0.1787302	0.19658733	2.9293124	21	12 4.6	19.2
179376 2001 XC_{236}	15.1	X	212.49960	35.13296	61.77371	11.00755	0.0309105	0.18253912	3.0777411	21	8 9.4	19.7
179377 2001 XC_{240}	15.3	X	205.08068	159.09323	297.99237	9.15579	0.1391636	0.17919229	3.1159453	21	7 21.4	20.3
179378 2001 XF_{245}	16.4	X	145.83790	270.39046	63.30291	4.64801	0.1084631	0.21154283	2.7895694	21	—	—
179379 2001 XL_{249}	14.5	X	195.94155	1.56482	137.92755	7.47071	0.1798015	0.17894428	3.1188237	21	9 1.8	19.7
179380 2001 XD_{257}	15.7	X	224.21544	277.03468	184.03310	11.88880	0.1782037	0.18442861	3.0566838	21	8 8.5	20.7
179381 2001 XB_{258}	15.2	X	358.75910	244.67582	169.74036	6.94398	0.3386880	0.19781258	2.9172039	21	—	—
179382 2001 YA_{5}	15.2	X	158.93257	96.66588	51.24063	20.30469	0.1100522	0.17686902	3.1431724	21	8 17.2	20.5
179383 2001 YU_{14}	15.2	X	264.98968	125.60766	243.12069	8.36904	0.0644899	0.17967535	3.1103580	21	6 13.8	19.7
179384 2001 YY_{16}	16.1	X	225.67708	354.87011	77.52687	2.52623	0.1835065	0.18068595	3.0987495	21	7 7.9	21.0
179385 2001 YO_{18}	16.1	X	231.75811	293.89651	108.13217	2.43271	0.1846466	0.17757669	3.1348162	21	6 6.5	21.0
179386 2001 YY_{37}	15.7	X	189.23383	241.97450	263.77728	3.85818	0.1310285	0.18428238	3.0583007	21	9 2.4	20.7
179387 2001 YO_{38}	16.1	X	75.63312	4.71375	44.25818	4.90204	0.1046925	0.20848280	2.8167993	21	—	—
179388 2001 YK_{49}	15.5	X	29.88286	339.84960	49.06310	4.91471	0.1236188	0.19938031	2.9018917	21	—	—
179389 2001 YP_{69}	15.7	X	227.33257	349.56894	84.34283	8.94271	0.1693774	0.18015661	3.1048163	21	7 12.7	20.7
179390 2001 YA_{73}	15.5	X	224.42657	114.15455	288.88082	13.56578	0.0807729	0.17543800	3.1602415	21	6 8.2	20.3
179391 2001 YC_{98}	15.9	X	176.35354	289.72594	220.05769	5.58018	0.1186117	0.18307734	3.0717060	21	8 25.9	20.8
179392 2001 YQ_{108}	15.9	X	224.30248	37.69361	21.45858	7.01127	0.2784531	0.18093557	3.0958988	21	6 14.1	21.4
179393 2001 YU_{108}	15.4	X	211.95655	123.19011	318.75954	8.13914	0.0794743	0.17927566	3.1149793	21	7 14.3	20.2
179394 2001 YM_{114}	15.2	X	259.37451	355.69416	16.85513	9.95966	0.1377554	0.17879227	3.1205913	21	5 31.4	20.0
179395 2001 YX_{114}	15.2	X	214.55704	29.51753	110.77598	10.78701	0.0454628	0.18710321	3.0274843	21	10 5.9	19.7
179396 2001 YF_{116}	15.6	X	217.39297	139.35869	284.59441	5.15790	0.1989544	0.17732467	3.1377856	21	6 19.3	20.8
179397 2001 YW_{116}	15.5	X	204.52785	334.15981	101.09157	4.36003	0.1541752	0.17600830	3.1534113	21	6 23.6	20.7
179398 2001 YH_{121}	15.3	X	272.54739	48.51294	47.88331	10.86860	0.0666277	0.19150073	2.9809573	21	10 17.4	19.3
179399 2001 YS_{121}	15.6	X	344.71294	114.06954	294.57339	9.53705	0.1275414	0.19673849	2.9278118	21	11 27.4	19.1
179400 2001 YN_{131}	15.3	X	354.12006	302.55354	60.33618	9.39497	0.0458850	0.18826800	3.0149843	21	10 13.6	19.3
179401 2001 YZ_{133}	15.1	X	89.22804	352.33468	328.12480	7.70740	0.0930735	0.19368059	2.9585482	21	12 23.6	19.5
179402 2001 YR_{135}	15.9	X	212.08781	356.89693	104.01636	12.93456	0.1765451	0.18089077	3.0964099	21	7 31.7	21.0
179403 2001 YE_{137}	15.2	X	185.62069	145.43646	322.74340	8.52548	0.1214030	0.18026221	3.1036036	21	7 18.2	20.1
179404 2001 YF_{142}	16.4	X	299.16881	127.36248	309.48269	0.91651	0.0872390	0.19355106	2.9598680	21	10 23.7	20.0
179405 2001 YV_{143}	15.6	X	322.32697	52.54636	346.30033	6.69523	0.0618314	0.18892389	3.0080020	21	10 8.4	19.5
179406 2001 YB_{149}	15.4	X	299.56384	75.31607	328.91027	8.11486	0.0849129	0.18753155	3.0228724	21	9 10.1	19.4
179407 2001 YC_{151}	16.2	X	161.80780	22.15659	316.66253	4.36275	0.0770153	0.21186773	2.7867169	21	1 11.1	20.2
179408 2001 YF_{153}	15.1	X	228.44200	23.27144	46.38895	16.15991	0.0814640	0.17923616	3.1154369	21	7 18.5	20.0
179409 2001 YB_{155}	15.2	X	217.35303	30.38651	43.03619	17.59120	0.2062466	0.18013713	3.1050402	21	6 29.7	20.6
179410 2001 YO_{156}	15.3	X	157.36103	79.36559	54.50444	18.72067	0.1930767	0.17611069	3.1521889	21	7 27.1	20.9
179411 2001 YM_{158}	15.2	X	146.80244	170.10235	355.18149	4.90920	0.0927677	0.17825788	3.1268248	21	8 18.1	19.9
179412 2001 YB_{161}	15.8	X	283.10858	332.96988	113.21930	7.56687	0.1673913	0.19215815	2.9741544	21	10 5.2	19.7
179413 2001 YM_{161}	14.9	X	255.53768	14.98189	44.40355	17.83574	0.3221507	0.18313913	3.0710151	21	7 6.9	20.2
179414 2002 AD_{3}	16.3	X	325.56505	189.45930	302.87787	16.95523	0.0844293	0.35288986	1.9832460	21	—	—
179415 2002 AC_{12}	16.2	X	214.51965	22.04045	89.46485	3.86189	0.1309967	0.18016686	3.1046986	21	8 19.3	21.0
179416 2002 AP_{14}	15.6	X	276.75761	71.05775	333.29081	1.15574	0.2875218	0.18402912	3.0611058	21	7 12.5	20.1
179417 2002 AN_{17}	17.3	X	149.23644	144.99311	243.66998	2.10867	0.1569178	0.31517132	2.1384786	21	2 19.1	20.0
179418 2002 AV_{19}	14.9	X	77.15275	237.07021	308.34038	11.98448	0.1853635	0.17038844	3.2223741	21	7 7.5	19.4
179419 2002 AC_{30}	15.5	X	162.63716	309.52218	152.20057	7.11610	0.1361255	0.17204305	3.2016803	21	6 17.7	20.7
179420 2002 AS_{37}	15.3	X	318.31306	263.85447	100.02033	11.30751	0.0970047	0.18614698	3.0378434	21	8 19.1	19.2
179421 2002 AG_{39}	15.4	X	201.69018	195.63196	257.02164	3.97463	0.1099688	0.17659445	3.1464295	21	7 13.5	20.4
179422 2002 AT_{43}	15.2	X	225.67391	320.73075	126.21173	10.08102	0.1168340	0.18013735	3.1050376	21	7 31.3	19.9
179423 2002 AM_{46}	15.8	X	230.47960	238.01987	182.96364	2.88433	0.1510226	0.17828081	3.1265568	21	6 30.7	20.7
179424 2002 AM_{48}	14.9	X	24.22601	144.85288	129.59071	8.28320	0.0895352	0.17672408	3.1448908	21	8 1.3	18.9
179425 2002 AO_{48}	16.2	X	244.70727	230.24690	189.33540	1.25667	0.1670850	0.17977824	3.1091712	21	7 11.8	21.0
179426 2002 AG_{52}	15.7	X	285.23030	134.62286	296.87113	1.83978	0.1302034	0.18573216	3.0423650	21	9 19.2	19.7
179427 2002 AC_{54}	15.7	X	106.38241	291.76894	238.45436	3.74539	0.1269627	0.17288951	3.1912216	21	7 13.0	20.5
179428 2002 AF_{58}	14.8	X	220.14772	158.54641	302.40506	8.22816	0.0346666	0.17848196	3.1242073	21	8 17.6	19.3
179429 2002 AD_{61}	15.0	X	185.77674	154.45038	313.20359	15.31354	0.0064046	0.17357780	3.1827798	21	7 20.2	19.5
179430 2002 AY_{65}	15.9	X	286.77940	256.13760	161.89408	2.35077	0.1670552	0.18501029	3.0502736	21	8 30.1	19.9
179431 2002 AB_{74}	16.4	X	225.59220	52.47687	22.97828	0.36560	0.1735396	0.17987237	3.1080864	21	7 12.3	21.4
179432 2002 AO_{75}	15.6	X	277.02792	300.70615	102.75091	11.44230	0.1236579	0.18277685	3.0750718	21	8 5.8	19.8
179433 2002 AZ_{76}	15.5	X	245.32926	118.32860	309.75599	9.44556	0.0685919	0.18053141	3.1005176	21	8 3.9	20.1
179434 2002 AZ_{79}	16.1	X	268.94657	41.83818	88.43939	2.25283	0.0604000	0.19249124	2.9707223	21	11 22.5	19.9
179435 2002 AC_{83}	15.5	X	21.67447	49.74180	304.63888	11.82072	0.1166122	0.19165757	2.9793308	21	11 11.0	19.6
179436 2002 AO_{83}	15.1	X	246.87816	330.20659	125.09956	15.41527	0.2074329	0.18414674	3.0598023	21	8 25.4	19.8
179437 2002 AT_{86}	15.2	X	181.16739	269.23572	251.57190	7.97801	0.0628662	0.18267425	3.0762231	21	9 12.7	20.0
179438 2002 AW_{86}	15.1	X	54.16666	171.38971	152.99973	9.71425	0.0368356	0.18917576	3.0053315	21	11 12.3	19.4
179439 2002 AU_{95}	15.7	X	203.47919	139.34986	310.12314	8.67764	0.2121288	0.17776521	3.1325994	21	7 8.6	21.0
179440 2002 AM_{103}	15.9	X	174.47446	154.24236	322.96060	7.42779	0.1634462	0.17542502	3.1603974	21	7 18.5	21.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
179441 2002 AC_{116}	15.6	X	267.66749	130.08683	317.45258	5.76889	0.0633660	0.18497251	3.0506889	21	9 24.2	19.8
179442 2002 AJ_{124}	14.8	X	309.44702	57.39226	314.97152	15.46322	0.0779650	0.17927417	3.1149965	21	8 14.4	18.8
179443 2002 AU_{124}	15.2	X	181.81473	328.84317	136.40225	15.95689	0.1944071	0.17383469	3.1796434	21	7 9.2	20.7
179444 2002 AD_{135}	16.0	X	212.64763	317.00793	127.34429	2.01249	0.2106121	0.17953244	3.1120084	21	7 9.1	21.2
179445 2002 AS_{143}	15.7	X	266.36884	288.79744	160.27447	2.05793	0.0166968	0.18589703	3.0405659	21	10 4.3	19.8
179446 2002 AV_{158}	14.9	X	247.21311	107.22930	299.74464	13.51255	0.1505963	0.17686589	3.1432095	21	7 1.9	19.8
179447 2002 AW_{158}	15.6	X	196.87849	263.61279	164.33911	5.21919	0.1871871	0.17310634	3.1885561	21	6 7.8	20.9
179448 2002 AG_{159}	15.1	X	157.77855	198.65849	299.11643	8.22449	0.0273846	0.17458551	3.1705207	21	7 22.5	19.7
179449 2002 AB_{165}	14.8	X	292.99977	53.66770	299.51328	11.92810	0.1176192	0.17518155	3.1633249	21	6 23.0	19.2
179450 2002 AU_{170}	15.3	X	297.26536	274.40257	114.81462	11.13551	0.1169448	0.18236071	3.0797481	21	8 16.7	19.3
179451 2002 AC_{171}	15.2	X	14.71861	222.90604	108.91385	9.61328	0.1398919	0.18512835	3.0489766	21	10 12.5	19.0
179452 2002 AE_{171}	15.5	X	203.53871	142.02443	306.03464	9.41337	0.1267564	0.17667867	3.1454296	21	7 10.2	20.5
179453 2002 AV_{171}	15.4	X	257.78680	299.72090	87.56953	6.58198	0.1627697	0.17784632	3.1316469	21	6 16.2	19.9
179454 2002 AA_{172}	15.9	X	230.10443	105.98802	326.69906	3.72494	0.1259585	0.17840997	3.1250476	21	7 17.8	20.6
179455 2002 AB_{172}	15.9	X	211.90381	23.26818	83.13579	1.94955	0.1362985	0.17896979	3.1185274	21	8 9.3	20.8
179456 2002 AF_{172}	15.2	X	20.74449	166.99364	123.25143	10.37955	0.0751179	0.17795358	3.1303884	21	8 16.9	19.2
179457 2002 AR_{173}	15.5	X	191.10216	139.21829	307.34432	8.14537	0.0677806	0.17390428	3.1787951	21	6 27.3	20.3
179458 2002 AQ_{177}	15.8	X	196.32602	350.27977	105.75442	3.60363	0.2213104	0.17576572	3.1563120	21	7 9.6	21.2
179459 2002 AG_{189}	15.4	X	144.78251	336.82979	184.07275	14.02519	0.1910262	0.17432184	3.1737169	21	8 11.3	20.9
179460 2002 AK_{190}	15.9	X	310.82624	102.41839	338.80139	11.03270	0.1183100	0.19177064	2.9781596	21	11 8.8	19.8
179461 2002 AA_{199}	15.6	X	212.54845	48.95226	82.08545	9.47410	0.0867047	0.18547908	3.0451317	21	9 17.9	20.3
179462 2002 AJ_{202}	14.6	X	295.89295	158.39921	190.65362	15.34924	0.0989666	0.17444744	3.1721933	21	6 23.0	19.2
179463 2002 AG_{209}	15.3	X	53.97468	74.32956	166.53133	9.36747	0.0070992	0.17438591	3.1729395	21	7 19.9	19.8
179464 2002 BM_{1}	15.4	X	173.23537	35.63335	73.12698	5.71094	0.1384403	0.17325037	3.1867887	21	7 6.0	20.4
179465 2002 BY_{2}	14.8	X	189.21709	83.55224	45.03049	15.81621	0.1635561	0.17811769	3.1284653	21	8 20.7	20.2
179466 2002 BG_{5}	15.0	X	160.13400	137.43863	344.14170	21.47599	0.0868654	0.17398266	3.1778404	21	7 13.2	20.2
179467 2002 BM_{9}	15.5	X	150.95548	45.90055	74.84915	3.13822	0.1623039	0.17104310	3.2141466	21	6 30.7	20.7
179468 2002 BA_{16}	15.7	X	215.70532	86.23403	356.84413	14.16736	0.2329745	0.17771219	3.1332225	21	7 12.1	21.2
179469 2002 BE_{20}	15.4	X	263.22160	296.09167	162.82317	9.06364	0.0444332	0.18347927	3.0672184	21	10 9.9	19.7
179470 2002 BV_{23}	15.9	X	225.56218	92.13530	358.82390	11.19059	0.2475297	0.18046851	3.1012380	21	7 29.2	21.2
179471 2002 BX_{23}	15.1	X	258.25602	27.77356	55.75663	10.01861	0.2324574	0.18326647	3.0695923	21	8 22.2	19.9
179472 2002 BH_{24}	15.5	X	106.67025	228.53657	335.15784	3.83183	0.0612467	0.17726532	3.1384860	21	8 17.5	19.9
179473 2002 BU_{26}	15.5	X	189.60887	44.80621	37.20065	4.84515	0.1884825	0.17547622	3.1597826	21	6 17.6	20.8
179474 2002 BM_{27}	15.7	X	172.56956	49.80053	77.56177	11.14828	0.1765868	0.17625607	3.1504553	21	7 30.1	21.0
179475 2002 BY_{29}	15.3	X	301.28885	359.22233	52.91625	9.95800	0.0772533	0.18566719	3.0430747	21	9 30.1	19.4
179476 2002 BK_{30}	15.0	X	149.53341	92.11997	55.59599	16.56287	0.1922882	0.17524384	3.1625753	21	8 7.7	20.5
179477 2002 BL_{30}	15.1	X	155.23034	131.46135	342.72431	26.92819	0.1731258	0.17370758	3.1811944	21	7 2.6	20.8
179478 2002 BM_{30}	14.8	X	120.90329	91.81869	79.68272	26.13611	0.2117441	0.17273627	3.1931087	21	8 12.8	20.4
179479 2002 CR_{2}	15.5	X	203.27279	31.65781	67.33454	6.08533	0.1017127	0.17644883	3.1481604	21	7 25.1	20.4
179480 2002 CU_{3}	15.1	X	204.70672	37.16973	78.41313	6.53336	0.0916984	0.17700106	3.1416090	21	8 17.9	19.9
179481 2002 CT_{13}	14.9	X	193.81815	350.25623	160.73628	15.08624	0.0283567	0.17887256	3.1196574	21	9 21.8	19.4
179482 2002 CN_{17}	15.4	X	41.95379	19.07439	339.29093	6.78628	0.0681018	0.19203250	2.9754516	21	12 9.8	19.6
179483 2002 CO_{17}	15.5	X	162.81466	99.95308	355.59773	4.49511	0.1574891	0.17188876	3.2035960	21	6 10.2	20.7
179484 2002 CZ_{17}	14.8	X	341.12494	315.45175	320.74978	14.27081	0.0154254	0.17067608	3.2187527	21	5 30.4	19.5
179485 2002 CC_{22}	14.4	X	106.60462	294.64619	323.40926	16.19467	0.2277335	0.18057351	3.1000357	21	10 30.6	19.9
179486 2002 CN_{23}	15.4	X	226.19210	319.67056	149.53638	11.74857	0.0891236	0.18220363	3.0815180	21	8 31.9	20.0
179487 2002 CD_{28}	14.5	X	149.73547	227.40288	330.13207	16.29113	0.1633181	0.18173925	3.0867650	21	9 24.0	19.7
179488 2002 CK_{29}	15.0	X	205.57305	168.89984	339.35625	10.12943	0.0816848	0.18342618	3.0678102	21	9 24.1	19.6
179489 2002 CZ_{33}	14.9	X	131.01029	116.72832	101.00122	11.55161	0.0732025	0.18280966	3.0747038	21	10 8.5	19.7
179490 2002 CY_{37}	15.4	X	87.04114	285.55065	273.51139	4.40670	0.0655061	0.17261200	3.1946410	21	7 18.2	19.8
179491 2002 CR_{41}	14.8	X	135.49433	318.12060	236.01802	10.07938	0.0426801	0.17669314	3.1452578	21	9 1.4	19.6
179492 2002 CX_{49}	15.6	X	198.75518	281.58457	164.64414	13.59315	0.2791504	0.17574630	3.1565445	21	6 28.3	21.4
179493 2002 CN_{62}	14.9	X	259.86375	57.13871	3.96397	15.17068	0.1059024	0.17896617	3.1185695	21	8 13.8	19.6
179494 2002 CU_{62}	14.8	X	195.62478	348.04744	110.85745	18.74808	0.0810407	0.17423059	3.1748249	21	7 16.6	19.5
179495 2002 CT_{65}	15.0	X	176.29319	76.86818	65.34018	10.34185	0.0253213	0.17593779	3.1542537	21	8 24.1	19.7
179496 2002 CT_{69}	15.5	X	296.76174	279.33961	126.62642	4.36967	0.0981415	0.18261351	3.0769052	21	9 9.2	19.5
179497 2002 CX_{77}	15.0	X	26.94385	286.76814	336.21675	11.53151	0.0339232	0.17258001	3.1950357	21	7 19.2	19.4
179498 2002 CW_{78}	16.0	X	231.04741	54.16413	33.73107	1.36161	0.1332003	0.17763389	3.1341432	21	8 5.9	20.7
179499 2002 CY_{81}	15.3	X	214.80684	306.17273	132.68301	6.17830	0.1169760	0.17409777	3.1764394	21	7 9.6	20.2
179500 2002 CV_{84}	15.0	X	105.04597	173.14274	75.99607	10.53949	0.0727548	0.18172023	3.0869804	21	10 17.1	19.7
179501 2002 CP_{86}	15.4	X	313.93023	72.76959	325.04557	6.57537	0.0637979	0.18332425	3.0689474	21	9 23.7	19.4
179502 2002 CX_{98}	14.8	X	84.13740	285.14162	355.47854	9.88123	0.0958022	0.18086761	3.0966742	21	10 26.3	19.4
179503 2002 CT_{103}	14.7	X	53.47578	273.78803	347.98662	15.91703	0.1345787	0.17198290	3.2024268	21	9 4.3	18.9
179504 2002 CL_{118}	15.1	X	36.68017	87.21978	166.15446	4.85105	0.0992708	0.16917155	3.2378086	21	7 23.5	19.4
179505 2002 CV_{122}	14.7	X	98.77979	43.32521	149.67971	17.98446	0.0597107	0.17287836	3.1913587	21	7 23.9	19.5
179506 2002 CC_{131}	15.2	X	177.24765	334.53238	155.65203	10.87785	0.0120440	0.17564956	3.1577034	21	8 4.3	19.7
179507 2002 CK_{132}	14.9	X	120.69850	45.45640	178.31223	10.45214	0.1632691	0.17755237	3.1351025	21	10 6.1	19.8
179508 2002 CR_{135}	15.0	X	53.09010	299.33039	299.84266	10.48291	0.0212491	0.17476823	3.1683105	21	7 19.8	19.3
179509 2002 CZ_{136}	15.1	X	105.40555	205.05233	31.48116	8.12181	0.0696766	0.18147074	3.0898090	21	9 29.2	19.6
179510 2002 CM_{141}	15.1	X	187.18899	334.32547	164.05683	17.17633	0.1834596	0.17664075	3.1458797	21	8 21.5	20.4
179511 2002 CC_{143}	14.9	X	357.87789	215.38269	130.45707	11.10313	0.0529448	0.18364005	3.0654280	21	9 26.9	19.0
179512 2002 CR_{143}	15.2	X	53.86313	199.92125	142.82489	10.84760	0.0790728	0.19149048	2.9810637	21	12 9.3	19.5
179513 2002 CV_{155}	15.6	X	210.54929	85.59258	322.88264	23.89256	0.2693568	0.17465931	3.1696275	21	5 17.6	21.6
179514 2002 CW_{155}	15.4	X	175.70843	108.29894	99.28281	8.43798	0.0442556	0.18756697	3.0224918	21	11 10.5	19.9
179515 2002 CO_{156}	16.1	X	168.03365	148.02352	353.03293	3.29980	0.1454849	0.17602243	3.1532425	21	8 10.2	21.2
179516 2002 CT_{156}	15.1	X	47.50173	356.47702	324.44958	10.69606	0.0812912	0.18724364	3.0259704	21	10 28.6	19.4
179517 2002 CJ_{157}	15.2	X	119.03926	32.26288	140.20104	9.92383	0.0265543	0.17328461	3.1863689	21	7 18.7	19.8
179518 2002 CZ_{159}	14.9	X	167.80554	205.76437	310.96593	20.37924	0.0611789	0.18048572	3.1010409	21	8 22.7	19.7
179519 2002 CP_{160}	15.3	X	239.19014	342.04873	71.81318	7.41799	0.1933743	0.17883589	3.1200839	21	6 26.9	20.2
179520 2002 CP_{162}	15.1	X	107.69652	227.94761	343.54380	9.63335	0.1621450	0.17590199	3.1546817	21	9 7.8	19.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
179521 2002 CG_{164}	15.2	X	245.74431	303.02558	114.40883	12.03567	0.0928082	0.17714108	3.1399533	21	7 18.9	19.7
179522 2002 CQ_{165}	14.9	X	294.99063	275.92240	118.86166	12.12238	0.0409287	0.17875658	3.1210067	21	9 1.1	19.2
179523 2002 CX_{166}	15.6	X	117.13781	122.41630	44.58576	4.63778	0.1452542	0.17024111	3.2242330	21	7 24.4	20.6
179524 2002 CX_{170}	14.3	X	58.93466	248.92832	358.80410	18.56579	0.1205338	0.17129402	3.2110070	21	8 27.5	18.8
179525 2002 CJ_{183}	14.8	X	34.20019	140.53483	134.72173	27.81405	0.1975496	0.17463891	3.1698743	21	9 3.7	18.8
179526 2002 CJ_{186}	15.7	X	14.46024	236.74492	128.66996	3.45462	0.0716479	0.18736164	3.0246997	21	11 13.5	19.6
179527 2002 CK_{186}	16.4	X	167.25108	355.01821	111.94128	2.48419	0.1332434	0.17220252	3.1997033	21	6 27.9	21.4
179528 2002 CE_{191}	16.1	X	181.87157	20.82850	137.03901	2.54368	0.1104999	0.18029609	3.1032148	21	9 12.9	21.0
179529 2002 CT_{195}	15.0	X	100.75701	123.44840	141.53855	17.51182	0.1973147	0.18146300	3.0898969	21	11 12.8	20.3
179530 2002 CA_{196}	15.4	X	66.41493	265.71944	335.46652	1.67983	0.0782710	0.17432799	3.1736422	21	8 17.0	19.7
179531 2002 CD_{198}	15.2	X	38.61407	153.67674	147.99726	6.60469	0.1496372	0.17927236	3.1150176	21	10 8.1	19.2
179532 2002 CL_{201}	15.7	X	68.33422	202.15456	9.48646	2.11930	0.0152649	0.17119191	3.2122836	21	7 3.6	20.2
179533 2002 CP_{201}	14.5	X	306.10915	190.47714	141.84654	18.78434	0.1714471	0.17165092	3.2065546	21	6 9.1	19.0
179534 2002 CT_{207}	14.9	X	27.44667	279.75347	338.97818	13.83981	0.1040956	0.17030950	3.2233697	21	7 21.4	19.1
179535 2002 CH_{213}	15.7	X	109.11498	106.90703	122.92901	2.24444	0.1270240	0.17737604	3.1371798	21	9 29.3	20.5
179536 2002 CG_{225}	14.7	X	28.57797	142.03805	154.86323	27.73104	0.1981530	0.17458199	3.1705632	21	9 23.2	18.7
179537 2002 CY_{234}	15.8	X	98.95065	69.47302	163.99681	0.40883	0.1144203	0.17891693	3.1191416	21	9 20.8	20.5
179538 2002 CG_{241}	14.7	X	350.56738	252.44317	337.70475	16.44917	0.1174368	0.15840957	3.3828425	21	4 3.8	19.2
179539 2002 CP_{241}	15.4	X	129.09206	346.89844	184.08980	10.53137	0.1529553	0.17143816	3.2092069	21	8 7.4	20.6
179540 2002 CY_{253}	15.3	X	154.71367	257.18016	199.23676	10.15558	0.1159936	0.17066464	3.2188965	21	6 2.9	20.4
179541 2002 CZ_{259}	15.1	X	289.45792	253.15425	160.03553	12.73434	0.0918996	0.18324593	3.0698217	21	9 8.1	19.1
179542 2002 CC_{263}	14.7	X	187.68777	60.74414	97.12555	17.21174	0.1738182	0.17979941	3.1089271	21	9 23.9	20.1
179543 2002 CM_{263}	15.0	X	86.64237	88.55026	163.06319	17.23102	0.1084089	0.17754418	3.1351988	21	9 30.7	19.6
179544 2002 CA_{292}	15.8	X	161.89891	34.22987	144.83025	1.43903	0.0608001	0.18167340	3.0875108	21	9 18.5	20.4
179545 2002 CQ_{294}	15.3	X	282.06830	39.02940	12.54089	10.13839	0.0467578	0.18134496	3.0912376	21	9 5.2	19.6
179546 2002 CG_{295}	15.8	X	217.65125	255.32677	163.17223	1.20236	0.1236796	0.17194107	3.2029461	21	6 17.3	20.7
179547 2002 CN_{295}	15.3	X	38.15131	289.06697	337.58938	5.36710	0.1194768	0.17246243	3.1964878	21	8 16.4	19.2
179548 2002 CP_{295}	14.9	X	199.56160	337.48594	117.74742	19.83498	0.1165357	0.17456881	3.1707228	21	7 14.8	20.0
179549 2002 CH_{296}	15.6	X	103.48297	87.46928	137.32736	4.91077	0.1319949	0.17559296	3.1583819	21	9 18.1	20.3
179550 2002 CP_{302}	15.3	X	271.82907	210.76062	222.05310	8.18161	0.0755271	0.18109436	3.0940887	21	9 8.1	19.7
179551 2002 CQ_{311}	15.2	X	111.01637	66.07206	171.45298	10.55694	0.1610106	0.17853293	3.1236126	21	10 14.2	20.1
179552 2002 CA_{315}	15.1	X	21.00550	116.45912	160.23159	11.70521	0.0510843	0.17435569	3.1733061	21	7 25.9	19.4
179553 2002 DJ	15.4	X	355.34868	144.96909	141.28501	2.34061	0.1393314	0.17160829	3.2070855	21	6 30.9	19.1
179554 2002 DB_{2}	14.9	X	143.96111	119.28146	85.21925	27.04455	0.2302828	0.17820481	3.1274456	21	10 19.8	20.8
179555 2002 DW_{5}	15.8	X	204.49076	330.38469	169.28512	9.59807	0.1420755	0.18203231	3.0834511	21	9 10.7	20.7
179556 2002 DH_{6}	15.1	X	312.99725	214.51902	158.36356	12.66512	0.1461942	0.17857523	3.1231193	21	8 12.1	19.1
179557 2002 DL_{7}	14.9	X	96.54667	177.17450	67.83528	16.61782	0.1264284	0.18047112	3.1012080	21	10 12.0	19.8
179558 2002 DD_{9}	15.1	X	188.26301	113.00444	11.89345	16.80194	0.1749492	0.17656045	3.1468335	21	8 14.8	20.5
179559 2002 DF_{13}	14.9	X	204.25663	250.51950	234.58668	12.65483	0.2354808	0.18021955	3.1040934	21	8 13.9	20.5
179560 2002 EL_{11}	15.8	X	212.36692	296.54708	161.89147	2.35964	0.1490730	0.17643766	3.1482933	21	7 29.1	20.8
179561 2002 EO_{17}	15.6	X	46.84263	137.87186	131.81519	2.01575	0.1589738	0.17140712	3.2095943	21	9 7.8	19.7
179562 2002 EY_{28}	15.3	X	85.99146	221.74340	355.57749	5.21154	0.1239373	0.17056475	3.2201531	21	8 18.9	19.9
179563 2002 ED_{50}	16.5	X	359.71425	280.73571	345.99867	6.31395	0.0853363	0.26796558	2.3827769	21	6 8.1	19.0
179564 2002 ES_{55}	15.1	X	175.47779	308.33362	161.07617	16.54286	0.1329142	0.17266950	3.1939318	21	7 8.1	20.4
179565 2002 ES_{62}	16.5	X	185.93953	187.40748	209.80652	3.99197	0.1899324	0.31588668	2.1352489	21	4 12.9	19.8
179566 2002 EN_{63}	15.1	X	45.78834	110.08176	177.84764	10.38884	0.1075907	0.17512446	3.1640124	21	9 22.0	19.4
179567 2002 EU_{80}	15.3	X	101.32757	48.21319	179.02152	9.67621	0.0634707	0.17745228	3.1362812	21	9 8.8	19.9
179568 2002 EZ_{83}	15.5	X	115.87248	232.54444	345.89637	2.68208	0.2058408	0.17681912	3.1437637	21	9 27.1	20.6
179569 2002 ER_{92}	15.1	X	65.01693	141.15864	143.32280	12.08632	0.0880496	0.18129697	3.0917831	21	10 14.9	19.6
179570 2002 EN_{95}	14.9	X	83.01065	94.62231	163.00913	11.35346	0.0399595	0.17776234	3.1326332	21	9 23.7	19.3
179571 2002 ED_{152}	15.3	X	20.99897	340.38022	341.52138	8.37198	0.0591670	0.17927442	3.1149937	21	9 23.1	19.3
179572 2002 FY_{11}	14.7	X	74.03228	100.21812	115.47083	21.28845	0.0679717	0.17032167	3.2232163	21	7 23.6	19.2
179573 2002 FW_{20}	14.8	X	209.49680	60.26453	2.14605	27.13981	0.1304458	0.17311454	3.1884554	21	6 9.0	20.4
179574 2002 FA_{25}	14.8	X	221.48200	335.20314	102.35461	17.87721	0.0452915	0.17306699	3.1890395	21	7 21.5	19.5
179575 2002 FZ_{30}	15.1	X	183.48644	343.23571	126.68041	17.72182	0.1550394	0.17174120	3.2054307	21	7 16.5	20.3
179576 2002 GZ_{10}	17.2	X	296.92323	137.85734	148.61932	4.00636	0.1885755	0.30794987	2.1717810	21	3 7.8	19.8
179577 2002 GO_{12}	14.6	X	29.10446	285.90850	19.73103	5.13461	0.1492203	0.17197815	3.2024857	21	9 26.5	18.5
179578 2002 GQ_{15}	14.5	X	354.32693	300.39041	14.07394	21.55233	0.0774565	0.17062690	3.2193711	21	8 18.3	19.0
179579 2002 GE_{55}	16.1	X	83.19184	357.99615	241.25444	6.57734	0.0845983	0.27375106	2.3490856	21	9 10.4	19.3
179580 2002 GQ_{125}	15.4	X	7.67369	92.26618	183.46414	6.42587	0.0324692	0.16717431	3.2635456	21	7 5.6	19.9
179581 2002 HZ	14.8	X	175.11596	84.12781	30.28061	11.36684	0.0777281	0.17195546	3.2027675	21	7 16.3	19.8
179582 2002 JJ_{2}	15.0	X	178.36281	113.65417	78.41791	27.42572	0.1821518	0.18061840	3.0995220	21	10 30.6	20.6
179583 2002 JG_{21}	17.5	X	357.76063	355.66348	278.33720	0.81480	0.1689543	0.31340215	2.1465190	21	6 11.1	18.6
179584 2002 JW_{85}	16.6	X	209.31629	61.93005	252.05989	9.14221	0.1449666	0.29826092	2.2185632	21	1 16.5	19.9
179585 2002 JB_{147}	17.0	X	284.26240	255.17092	63.48776	2.44205	0.1757227	0.30676315	2.1773785	21	4 8.2	19.6
179586 2002 KD_{15}	17.2	X	305.18623	323.74848	335.17684	5.76686	0.2464955	0.30398196	2.1906391	21	3 24.7	20.1
179587 2002 LS_{2}	16.9	X	330.46113	52.17961	233.32184	7.62451	0.3114645	0.30635202	2.1793261	21	3 28.9	19.0
179588 2002 LD_{8}	16.7	X	201.86250	206.78028	92.95380	7.93873	0.1407630	0.29310518	2.2445040	21	—	—
179589 2002 LM_{30}	17.2	X	257.80565	84.29217	193.27235	5.43128	0.1075311	0.29911626	2.2143318	21	1 19.5	20.3
179590 2002 LJ_{31}	17.0	X	246.52111	206.84659	107.79520	6.64311	0.2278453	0.29727092	2.2234861	21	2 22.7	20.7
179591 2002 LH_{36}	16.8	X	257.41007	118.46670	172.61849	5.86644	0.1882445	0.29607900	2.2294495	21	2 1.6	20.3
179592 2002 LM_{40}	17.0	X	190.30638	156.36904	128.92854	7.30312	0.1707241	0.28845543	2.2685598	21	—	—
179593 Penglangxiaoxue	16.8	X	188.69109	160.04359	172.61742	9.44047	0.1217813	0.29514762	2.2341373	21	1 19.2	20.1
179594 2002 MP_{2}	16.5	X	307.82072	61.89130	265.51216	4.77241	0.2086274	0.31072439	2.1588335	21	5 16.5	18.5
179595 Belkovich	17.5	X	303.12159	48.16229	217.64761	5.19533	0.1552361	0.30034413	2.2082926	21	2 17.9	20.3
179596 2002 NS_{17}	16.8	X	147.48976	18.70344	305.68791	5.46812	0.2781661	0.28291120	2.2981019	21	—	—
179597 2002 NS_{19}	16.5	X	85.39250	51.67584	267.07147	5.89748	0.1480231	0.27348177	2.3506274	21	—	—
179598 2002 NV_{21}	16.8	X	115.38074	170.74029	155.29868	6.40011	0.1272249	0.27903764	2.3193210	21	—	—
179599 2002 NH_{24}	16.9	X	276.86945	49.78263	257.50931	4.16681	0.2022600	0.29981521	2.2108890	21	3 10.0	20.1
179600 2002 NG_{29}	16.6	X	238.79061	311.80986	303.34294	5.76823	0.2230914	0.28974568	2.2618202	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
179601 2002 NE_{35}	17.6	X	270.56525	67.19270	199.91869	4.87993	0.1647914	0.29502184	2.2347723	21	1 16.4	20.9
179602 2002 NO_{43}	16.5	X	266.82188	306.41530	73.11378	7.18086	0.1984030	0.25411997	2.4685591	21	6 9.7	19.9
179603 2002 NJ_{46}	16.3	X	77.15552	82.84231	285.13447	13.32079	0.2456576	0.22547310	2.6734551	21	—	—
179604 2002 NO_{47}	16.8	X	83.82586	79.94202	243.67865	5.39519	0.1554843	0.27464871	2.3439644	21	—	—
179605 2002 NW_{57}	17.1	X	314.05114	75.43509	174.59257	6.51718	0.1318306	0.29825228	2.2186061	21	2 15.2	19.6
179606 2002 NT_{61}	16.9	X	183.69965	21.68521	254.59032	6.36232	0.1018458	0.28226980	2.3015819	21	—	—
179607 2002 OC_{6}	17.3	X	321.35910	35.69792	205.87972	6.61707	0.1606460	0.29903643	2.2147259	21	2 7.4	20.0
179608 2002 OP_{10}	16.6	X	106.58932	218.30379	132.75454	9.35054	0.2563889	0.27901346	2.3194550	21	—	—
179609 2002 OX_{16}	16.6	X	159.88629	109.34702	194.89349	5.31276	0.1831929	0.28304116	2.2973984	21	—	—
179610 2002 OO_{21}	17.5	X	222.55937	82.74567	232.84124	3.77174	0.2072816	0.29317880	2.2441282	21	2 1.8	21.2
179611 2002 OS_{23}	15.8	X	187.45480	351.49088	311.23049	13.78070	0.1849992	0.23357618	2.6112614	21	—	—
179612 2002 OT_{29}	17.5	X	145.35505	133.95685	170.42191	2.77206	0.1865183	0.28129509	2.3068956	21	—	—
179613 2002 PU_{5}	16.1	X	135.15697	35.48149	295.52853	11.83105	0.2408596	0.28080921	2.3095559	21	—	—
179614 2002 PB_{13}	16.8	X	358.77625	185.89590	171.18030	7.76221	0.1027807	0.26466377	2.4025534	21	10 27.8	19.3
179615 2002 PJ_{26}	17.3	X	256.59529	306.29910	301.66392	2.46687	0.1234621	0.28956177	2.2627778	21	—	—
179616 2002 PL_{26}	17.1	X	45.53289	204.99555	169.07473	2.29773	0.1162982	0.27402721	2.3475071	21	—	—
179617 2002 PU_{27}	16.1	X	125.70144	100.07222	304.63372	2.68745	0.1584373	0.23675379	2.5878440	21	2 25.3	19.5
179618 2002 PY_{28}	17.3	X	5.05006	177.98659	172.43636	0.96046	0.2005772	0.26451118	2.4034773	21	11 9.5	19.4
179619 2002 PC_{33}	16.9	X	52.56371	166.57888	191.74662	2.23141	0.1956711	0.27193871	2.3595111	21	—	—
179620 2002 PN_{33}	16.6	X	31.27316	200.94800	144.24702	5.05046	0.1841096	0.26708209	2.3880287	21	12 13.2	19.5
179621 2002 PY_{36}	16.9	X	26.23848	207.77721	133.47283	9.71390	0.2593747	0.26723257	2.3871321	21	12 13.6	19.8
179622 2002 PZ_{38}	17.4	X	211.73741	79.26673	221.87455	2.08944	0.1749045	0.28966102	2.2622608	21	1 6.8	20.8
179623 2002 PN_{47}	16.8	X	143.18512	110.11918	185.32163	8.70204	0.2209330	0.27816099	2.3241914	21	—	—
179624 2002 PG_{54}	17.1	X	295.27207	215.16822	69.95991	5.24486	0.1692998	0.29961963	2.2118511	21	3 10.1	20.0
179625 2002 PX_{54}	16.9	X	262.51630	22.51738	290.45977	4.23986	0.1882098	0.29780371	2.2208334	21	3 5.0	20.4
179626 2002 PX_{56}	16.9	X	59.62835	151.25109	182.86613	5.47952	0.1715610	0.26969470	2.3725813	21	12 30.7	20.4
179627 2002 PF_{57}	16.5	X	81.37857	16.04939	319.30010	3.50490	0.2150242	0.27272509	2.3549733	21	—	—
179628 2002 PM_{58}	16.8	X	155.67341	183.15829	148.70125	2.56893	0.1818440	0.28345093	2.2951837	21	—	—
179629 2002 PP_{58}	15.7	X	17.89500	21.80960	332.09339	24.83018	0.2303580	0.26547833	2.3976365	21	12 12.0	19.0
179630 2002 PX_{70}	16.2	X	169.97991	125.20209	222.84611	4.62401	0.2908372	0.28685236	2.2770038	21	2 3.6	20.1
179631 2002 PP_{74}	16.9	X	8.37574	177.12980	169.21580	6.70921	0.1539792	0.26350203	2.4096099	21	11 4.2	19.3
179632 2002 PD_{86}	15.7	X	125.60663	257.25936	120.11740	13.46557	0.2838984	0.23139185	2.6276691	21	2 9.8	19.6
179633 2002 PF_{91}	16.4	X	122.48380	279.45881	22.84601	6.66681	0.1504760	0.27620825	2.3351330	21	—	—
179634 2002 PK_{94}	16.7	X	200.00349	273.77628	8.00320	7.19341	0.1248883	0.28415070	2.2914140	21	—	—
179635 2002 PY_{95}	16.6	X	339.23360	43.42179	311.16938	5.30022	0.1634891	0.26118428	2.4238441	21	9 11.9	18.8
179636 2002 PK_{111}	16.2	X	243.11913	103.45601	350.73311	5.90252	0.0698624	0.26199336	2.4188514	21	9 10.1	19.3
179637 2002 PB_{114}	17.0	X	214.38400	347.39212	156.02323	3.64388	0.1194626	0.26698448	2.3886107	21	10 5.9	20.2
179638 2002 PH_{117}	16.2	X	249.79157	126.54986	191.60788	6.11193	0.2161054	0.29565125	2.2315994	21	2 27.0	19.7
179639 2002 PZ_{119}	16.5	X	140.68393	186.15627	238.47778	2.94669	0.2513182	0.23899769	2.5716207	21	4 16.4	20.5
179640 2002 PX_{120}	16.7	X	176.42566	87.65899	177.50534	6.35551	0.1021071	0.27844688	2.3226003	21	—	—
179641 2002 PJ_{121}	16.4	X	353.61775	103.64940	264.62755	5.56897	0.1370359	0.26407008	2.4061531	21	11 3.4	18.7
179642 2002 PW_{128}	15.5	X	53.42331	261.74092	85.49596	9.61606	0.2061879	0.21747242	2.7386293	21	—	—
179643 2002 PT_{133}	17.3	X	176.08917	337.28281	320.01831	3.55625	0.1889660	0.28398495	2.2923055	21	—	—
179644 2002 PF_{134}	17.0	X	69.82194	171.03529	166.63592	2.47931	0.2292522	0.27203115	2.3589766	21	—	—
179645 2002 PH_{135}	16.9	X	180.44079	316.77550	320.32558	4.30520	0.1574357	0.28196601	2.3032348	21	—	—
179646 2002 PK_{136}	16.7	X	21.11692	45.80006	309.31113	4.86693	0.1353575	0.26731808	2.3866231	21	12 3.0	19.4
179647 Stuartrobbins	17.2	X	307.21421	64.45957	307.83841	1.17215	0.1854587	0.25812336	2.4429683	21	7 31.9	19.6
179648 2002 PE_{156}	17.4	X	155.58358	329.87291	332.78457	4.20017	0.1129660	0.28161251	2.3051618	21	—	—
179649 2002 PA_{157}	16.7	X	143.01625	75.08696	324.71253	4.64451	0.2685281	0.23740481	2.5831108	21	3 19.8	20.9
179650 2002 PB_{165}	17.7	X	274.03155	140.32391	128.77972	3.57474	0.1429957	0.29538155	2.2329576	21	1 25.1	21.0
179651 2002 PW_{168}	17.3	X	256.11440	125.41742	136.10914	2.43378	0.1046787	0.28991998	2.2609135	21	—	—
179652 2002 PJ_{171}	17.1	X	267.21433	146.49523	36.31636	3.21074	0.1065173	0.28016524	2.3130936	21	—	—
179653 2002 PX_{175}	16.6	X	266.36398	144.94504	95.47402	3.21301	0.0849177	0.28813307	2.2702515	21	—	—
179654 2002 PY_{182}	16.0	X	110.68829	272.59974	352.29384	8.88009	0.0941615	0.21898815	2.7259777	21	11 10.1	20.3
179655 2002 QP_{1}	16.7	X	53.93187	9.58795	12.32505	3.99611	0.1313725	0.27551431	2.3390523	21	—	—
179656 2002 QQ_{3}	16.7	X	144.94242	183.35847	177.02908	7.02467	0.1231040	0.28542924	2.2845662	21	1 7.9	19.6
179657 2002 QP_{14}	16.3	X	166.51641	336.75853	265.72039	9.69751	0.0713593	0.27318146	2.3523498	21	12 23.5	19.3
179658 2002 QG_{16}	17.0	X	284.11059	125.11418	176.68638	5.94273	0.1615383	0.29942896	2.2127899	21	3 17.6	19.7
179659 2002 QH_{18}	17.0	X	211.49962	150.20847	226.11609	1.70425	0.2409850	0.24310148	2.5425977	21	4 13.3	21.5
179660 2002 QZ_{21}	16.4	X	332.35091	47.26605	320.60493	10.05875	0.1546348	0.26273936	2.4142707	21	9 16.3	18.6
179661 2002 QU_{23}	16.9	X	93.96014	6.42217	8.65196	2.85366	0.1796218	0.27929256	2.3179095	21	—	—
179662 2002 QW_{27}	17.1	X	138.71708	252.96791	85.72497	3.39116	0.1898235	0.28223584	2.3017665	21	—	—
179663 2002 QH_{31}	17.0	X	213.04178	154.83522	89.16665	3.16514	0.1463377	0.28189591	2.3036166	21	—	—
179664 2002 QD_{32}	16.9	X	182.30845	129.71426	126.61723	7.31650	0.0883507	0.27787870	2.3257653	21	—	—
179665 2002 QM_{32}	16.9	X	268.27988	332.07143	61.32628	3.29469	0.2159578	0.25382616	2.4704636	21	6 28.1	20.2
179666 2002 QB_{34}	17.3	X	248.55809	266.43605	76.42512	1.71386	0.1163561	0.24581011	2.5238849	21	4 12.4	21.0
179667 2002 QU_{34}	16.8	X	298.66749	11.26049	30.12004	4.79760	0.1347903	0.25949458	2.4343547	21	9 9.5	19.3
179668 2002 QG_{35}	16.1	X	347.48657	15.39876	3.61382	2.27534	0.1449931	0.26387386	2.4073458	21	11 9.2	18.3
179669 2002 QF_{41}	16.8	X	296.28983	327.61217	334.10878	6.12295	0.2004728	0.30248183	2.1978760	21	3 24.3	19.7
179670 2002 QM_{41}	16.4	X	77.66356	9.29004	339.12257	6.71385	0.1269009	0.27574678	2.3377375	21	—	—
179671 2002 QL_{47}	16.2	X	164.89692	242.91964	131.90940	11.93915	0.3146162	0.23535815	2.5980643	21	3 14.8	20.9
179672 2002 QO_{49}	16.8	X	188.41551	177.31196	359.22311	6.28342	0.0725377	0.26475208	2.4020191	21	10 21.0	20.2
179673 2002 QU_{50}	17.1	X	21.56733	19.62355	8.88109	2.96600	0.0615465	0.27055209	2.3675661	21	—	—
179674 2002 QL_{61}	17.2	X	181.10269	148.44627	163.30761	3.98998	0.1296590	0.28518858	2.2858512	21	—	—
179675 2002 QM_{61}	16.5	X	295.91988	5.88942	160.33793	6.38455	0.0453776	0.28024340	2.3126635	21	—	—
179676 2002 QF_{64}	17.6	X	160.04598	161.36548	76.65300	2.29586	0.1446214	0.27352631	2.3503722	21	12 7.3	21.1
179677 2002 QL_{64}	17.0	X	245.50437	115.50246	103.80829	3.16381	0.1140590	0.28244618	2.3006237	21	—	—
179678 Rietmeijer	17.1	X	283.42602	273.39665	138.84590	6.74582	0.1673663	0.25924689	2.4359050	21	8 23.5	20.0
179679 2002 QZ_{67}	16.7	X	261.58922	229.59905	292.51353	3.63048	0.0871512	0.27475945	2.3433345	21	—	—
179680 2002 QX_{77}	17.6	X	257.87764	250.25706	352.91318	1.97482	0.1518805	0.28911387	2.2651142	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
179681 2002 QO_{86}	16.9	X	224.98601	158.84211	313.45541	5.82348	0.0457276	0.26164577	2.4209932	21	9 11.9	20.2
179682 2002 QB_{87}	16.8	X	297.39757	356.03852	24.59647	6.96865	0.1085942	0.25820863	2.4424305	21	8 12.3	19.7
179683 2002 QY_{87}	17.4	X	295.93743	71.09300	331.99301	5.94208	0.1030904	0.26028483	2.4294249	21	9 8.8	20.1
179684 2002 QV_{89}	17.1	X	66.03519	245.14780	113.37359	4.80454	0.0741655	0.27358724	2.3500232	21	—	—
179685 2002 QH_{98}	17.5	X	246.42013	257.04380	9.11351	3.19668	0.1037669	0.28989517	2.2610425	21	—	—
179686 2002 QR_{109}	17.4	X	315.80690	233.31056	143.96984	6.73611	0.1393592	0.26056075	2.4277095	21	9 2.9	19.8
179687 2002 QM_{115}	17.6	X	293.87809	43.92907	150.83369	3.88230	0.1243821	0.28504800	2.2866027	21	—	—
179688 2002 QN_{118}	16.8	X	258.87286	348.38852	71.83114	3.73551	0.1717068	0.25660785	2.4525776	21	7 30.8	20.1
179689 2002 RP_{6}	16.5	X	40.80824	48.48790	311.59261	3.31158	0.1218627	0.26991818	2.3712716	21	—	—
179690 2002 RP_{7}	16.4	X	13.44306	8.08803	6.41551	1.29957	0.1942060	0.26794899	2.3828752	21	12 28.7	19.0
179691 2002 RS_{7}	16.8	X	312.37745	236.54085	121.11162	3.56678	0.2086664	0.25630426	2.4545139	21	7 14.7	19.3
179692 2002 RO_{17}	17.0	X	109.81810	144.11591	164.34561	4.37265	0.2000755	0.27389702	2.3482510	21	—	—
179693 2002 RE_{18}	15.6	X	223.55104	295.66913	351.38081	23.40053	0.2609030	0.28853058	2.2681659	21	1 7.1	20.0
179694 2002 RO_{18}	16.5	X	0.78783	30.45088	13.45818	5.06578	0.1515372	0.26762178	2.3848171	21	—	—
179695 2002 RL_{21}	16.6	X	312.45646	349.44843	73.07558	2.24664	0.1741363	0.26273779	2.4142803	21	11 2.8	18.4
179696 2002 RT_{23}	16.9	X	113.73027	145.51631	162.49057	5.70215	0.2505114	0.27510331	2.3413814	21	—	—
179697 2002 RR_{24}	17.5	X	210.03362	115.01030	174.88591	2.67970	0.1788936	0.28644617	2.2791559	21	—	—
179698 2002 RX_{27}	16.5	X	26.48893	165.54460	122.42722	6.48497	0.1187544	0.25738237	2.4476549	21	9 4.7	19.1
179699 2002 RC_{28}	16.2	X	166.60579	241.12016	183.48736	5.96827	0.2900380	0.23733494	2.5836178	21	5 11.0	20.8
179700 2002 RQ_{29}	16.5	X	290.32437	2.20426	291.57662	4.88429	0.1862957	0.29878588	2.2159638	21	3 8.4	19.5
179701 2002 RU_{31}	16.5	X	128.34796	146.14401	188.17197	6.75930	0.1601361	0.27894985	2.3198076	21	—	—
179702 2002 RP_{32}	16.5	X	197.49072	6.40942	260.98829	2.64172	0.0915860	0.27978411	2.3151938	21	—	—
179703 2002 RC_{39}	16.5	X	326.22490	319.44958	82.81982	3.10476	0.1856523	0.26345494	2.4098970	21	11 2.5	18.2
179704 2002 RV_{39}	17.0	X	314.06182	166.95432	121.73487	3.70555	0.1616886	0.30215382	2.1994664	21	4 9.5	19.3
179705 2002 RL_{42}	15.8	X	332.46148	323.24851	121.47431	3.58621	0.0546826	0.21935533	2.7229349	21	12 29.1	19.2
179706 2002 RS_{42}	16.9	X	166.40965	325.11610	359.23077	6.83325	0.1515116	0.28379421	2.2933325	21	—	—
179707 2002 RU_{42}	16.4	X	244.73535	286.76233	1.36247	6.69404	0.1546335	0.29118918	2.2543390	21	1 22.5	19.9
179708 2002 RA_{48}	16.7	X	199.29767	270.03366	15.21605	3.55597	0.1622820	0.28370986	2.2937871	21	—	—
179709 2002 RK_{48}	17.1	X	42.27759	301.22581	43.74463	3.19114	0.2400107	0.26775616	2.3840191	21	—	—
179710 2002 RC_{50}	16.7	X	303.43620	282.09571	115.47357	2.24943	0.1998716	0.25758432	2.4463754	21	8 31.5	19.0
179711 2002 RP_{56}	16.6	X	165.67603	48.81387	336.97836	8.58548	0.2091678	0.23628278	2.5912820	21	3 17.5	20.8
179712 2002 RA_{57}	16.7	X	33.70358	111.60164	192.01175	6.31509	0.1350651	0.26067337	2.4270102	21	10 10.8	19.4
179713 2002 RJ_{59}	16.9	X	92.23922	85.55678	222.61200	4.01506	0.1310944	0.27036715	2.3686457	21	12 28.2	20.4
179714 2002 RD_{62}	16.4	X	89.48871	265.17253	35.82333	7.36447	0.2586516	0.26874003	2.3781969	21	12 25.4	20.4
179715 2002 RR_{62}	16.4	X	60.91706	212.46631	150.52507	5.91778	0.2356579	0.26985310	2.3716528	21	—	—
179716 2002 RC_{63}	15.5	X	161.25130	172.36339	188.00521	21.97944	0.1990912	0.28354448	2.2946789	21	2 1.8	19.4
179717 2002 RB_{66}	16.9	X	138.04616	330.48445	4.87965	2.32462	0.2308637	0.28048044	2.3113604	21	—	—
179718 2002 RM_{67}	15.9	X	129.68372	56.14542	287.58253	5.97852	0.1403872	0.27900970	2.3194758	21	—	—
179719 2002 RU_{79}	16.8	X	257.35685	70.54251	197.50445	2.29069	0.1510809	0.28947319	2.2632393	21	1 7.4	20.1
179720 2002 RJ_{81}	16.5	X	210.05258	324.20999	352.05272	3.86289	0.1434004	0.28826195	2.2695748	21	1 24.6	20.0
179721 2002 RC_{85}	15.9	X	199.61968	187.36700	185.46341	8.22170	0.1797947	0.24002089	2.5643070	21	3 31.6	20.1
179722 2002 RA_{87}	15.9	X	96.04071	186.03054	179.12934	6.49036	0.1682526	0.27629473	2.3346457	21	—	—
179723 2002 RS_{87}	15.6	X	143.69416	258.77411	179.94913	26.65573	0.3164619	0.23687508	2.5869605	21	5 14.5	20.5
179724 2002 RL_{90}	17.3	X	259.44161	274.53558	29.88837	0.43060	0.2253367	0.29503360	2.2347129	21	2 19.4	20.8
179725 2002 RZ_{90}	16.7	X	103.86064	54.27234	0.51908	12.93468	0.2642282	0.22979005	2.6398661	21	3 3.7	20.2
179726 2002 RD_{91}	17.0	X	163.15679	338.02186	334.51856	2.30091	0.1738455	0.28083138	2.3094344	21	—	—
179727 2002 RF_{95}	16.5	X	147.46159	297.13655	12.93271	2.22225	0.2243913	0.27826905	2.3235897	21	—	—
179728 2002 RG_{95}	16.2	X	23.86155	216.55038	180.78445	6.87642	0.1240171	0.26914196	2.3758286	21	—	—
179729 2002 RW_{95}	16.5	X	237.94946	76.53813	243.53676	0.82233	0.2219419	0.29255027	2.2473414	21	2 20.7	20.2
179730 2002 RY_{96}	16.3	X	125.36102	159.16287	175.94499	7.13414	0.1326388	0.27679047	2.3318572	21	—	—
179731 2002 RW_{99}	16.2	X	129.33415	141.32501	179.83125	4.61147	0.1632043	0.27542175	2.3395764	21	—	—
179732 2002 RC_{101}	14.8	X	126.22567	95.00212	20.24657	26.77825	0.2880908	0.23701940	2.5859103	21	6 2.1	19.6
179733 2002 RS_{103}	16.7	X	89.90091	136.27535	189.10009	5.91942	0.1555743	0.27037745	2.3685855	21	—	—
179734 2002 RB_{105}	16.4	X	96.25063	306.38876	39.73634	1.63020	0.2473057	0.27264451	2.3554373	21	—	—
179735 2002 RV_{108}	16.7	X	214.02302	102.92297	186.19820	4.85536	0.1537565	0.28590443	2.2820341	21	—	—
179736 2002 RE_{110}	16.8	X	1.39029	115.49243	234.70877	4.09354	0.0894453	0.26114410	2.4240928	21	10 16.8	19.3
179737 2002 RE_{115}	16.7	X	295.91718	86.39277	297.77789	5.09073	0.1258920	0.25693166	2.4505165	21	8 7.9	19.4
179738 2002 RB_{118}	16.0	X	47.26515	66.48105	277.60868	4.50635	0.2739009	0.26811533	2.3818895	21	—	—
179739 2002 RJ_{124}	15.8	X	356.35927	273.03504	92.96627	10.19059	0.1731116	0.21141072	2.7907314	21	11 2.8	18.9
179740 2002 RY_{135}	16.7	X	267.95095	186.39627	97.99506	6.54975	0.1881797	0.29410137	2.2394327	21	2 5.7	20.0
179741 2002 RP_{141}	16.4	X	173.08980	342.23793	296.46855	6.25152	0.1077729	0.27802180	2.3249671	21	—	—
179742 2002 RZ_{147}	16.7	X	282.29302	269.84370	3.90314	5.07428	0.1326189	0.29343059	2.2428443	21	2 12.1	19.8
179743 2002 RY_{153}	16.9	X	134.65837	134.57667	191.71502	3.75724	0.1318944	0.27775525	2.3264544	21	—	—
179744 2002 RV_{155}	16.9	X	156.79732	85.83881	182.21756	5.91619	0.1011135	0.27444497	2.3451243	21	—	—
179745 2002 RF_{160}	16.7	X	131.51634	90.16320	351.92175	4.12011	0.2112198	0.23913734	2.5706194	21	4 25.3	20.8
179746 2002 RG_{162}	16.4	X	310.34971	308.69261	86.54554	1.59863	0.2098965	0.25913677	2.4365951	21	9 10.3	18.4
179747 2002 RK_{170}	15.6	X	30.96760	81.24605	271.33533	3.29986	0.1302838	0.21550320	2.7552873	21	12 2.3	18.9
179748 2002 RG_{174}	16.8	X	274.27341	17.22026	254.72673	4.39184	0.1460497	0.29291634	2.2454686	21	1 27.9	20.0
179749 2002 RT_{188}	16.5	X	104.17605	114.59868	162.30724	4.78715	0.0312009	0.26664284	2.3906505	21	11 24.5	19.6
179750 2002 RL_{201}	16.8	X	89.38205	315.70612	351.35797	2.18325	0.1440440	0.27118113	2.3639035	21	12 25.5	20.2
179751 2002 RP_{203}	17.1	X	216.08198	41.74877	341.12929	2.38288	0.2541521	0.24559443	2.5253624	21	4 23.7	21.6
179752 2002 RW_{204}	17.0	X	113.13474	289.02075	354.38425	5.95783	0.1059050	0.27035345	2.3687257	21	12 17.1	20.5
179753 2002 RJ_{205}	17.0	X	208.30430	287.55179	166.30924	4.45346	0.1186630	0.25244087	2.4794933	21	7 22.3	20.8
179754 2002 RR_{206}	16.9	X	334.88918	203.45331	182.63671	1.39549	0.2076759	0.26124722	2.4234548	21	10 27.2	18.4
179755 2002 RL_{211}	16.2	X	140.46138	289.94649	18.90837	5.93158	0.1970138	0.27592975	2.3367040	21	—	—
179756 2002 RH_{212}	16.0	X	222.12319	359.15346	93.03633	10.40439	0.1853560	0.25117418	2.4878225	21	7 31.7	19.9
179757 2002 RT_{216}	16.5	X	162.36089	211.61666	86.26605	7.52645	0.1165057	0.27881968	2.3205295	21	—	—
179758 2002 RV_{216}	16.7	X	218.78751	98.89131	162.92871	6.15759	0.1763373	0.28501372	2.2867861	21	—	—
179759 2002 RP_{220}	16.5	X	357.61220	339.00767	28.27631	6.08459	0.2179363	0.26437826	2.4042828	21	11 21.0	18.6
179760 2002 RO_{230}	16.8	X	239.29997	292.73562	85.20338	2.47667	0.1599377	0.24761658	2.5115948	21	5 14.0	20.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
179761 2002 RK_{240}	17.0	X	269.70949	314.11529	112.45487	2.27884	0.1679696	0.25838173	2.4413395	21	8 23.5	20.1
179762 2002 RB_{242}	16.0	X	38.23805	139.57711	328.35415	12.98414	0.2095861	0.23008274	2.6376269	21	1 4.7	18.5
179763 2002 RX_{242}	16.7	X	177.16930	130.24073	280.54273	5.04612	0.2222906	0.24274937	2.5450558	21	4 26.7	21.0
179764 Myriamsarah	16.5	X	100.78311	11.05317	335.25395	7.13871	0.1369912	0.27470074	2.3436684	21	—	—
179765 2002 SQ_{6}	16.3	X	65.69958	282.86314	90.60108	1.14021	0.2134007	0.27254079	2.3560348	21	—	—
179766 2002 SZ_{6}	16.9	X	163.35346	233.72144	45.45349	2.33532	0.2165230	0.27666533	2.3325603	21	—	—
179767 2002 SK_{8}	16.7	X	169.07849	38.93233	46.20256	3.81484	0.0963013	0.24415911	2.5352498	21	5 29.9	20.4
179768 2002 SP_{8}	16.6	X	183.96968	1.29343	36.37443	4.57559	0.2975160	0.23948410	2.5681374	21	4 19.9	21.2
179769 2002 SO_{18}	16.9	X	227.83162	330.50362	32.61029	1.75765	0.1257990	0.24334822	2.5408787	21	4 15.5	20.9
179770 2002 SO_{20}	16.8	X	276.76600	260.01144	20.11116	7.22995	0.1878504	0.29355645	2.2422032	21	2 10.4	20.2
179771 2002 SB_{30}	16.2	X	202.82410	71.96074	172.02375	7.80340	0.0676220	0.27628325	2.3347103	21	—	—
179772 2002 SO_{31}	16.1	X	316.64196	313.30510	73.85176	7.42952	0.1234219	0.25842036	2.4410962	21	9 25.3	18.6
179773 2002 SZ_{36}	16.4	X	55.84007	133.60875	218.51308	1.98563	0.2345468	0.26875453	2.3781114	21	—	—
179774 2002 SR_{40}	16.4	X	80.66773	267.83545	80.38028	4.01122	0.1604521	0.27257968	2.3558107	21	—	—
179775 2002 SK_{41}	16.7	X	275.80601	278.13499	25.75955	1.66671	0.2936374	0.29685308	2.2255721	21	2 27.9	20.2
179776 2002 SR_{44}	16.8	X	9.41733	132.12897	194.66465	5.99887	0.1283048	0.25820154	2.4424752	21	9 30.9	19.3
179777 2002 SR_{47}	16.7	X	222.08597	112.83165	168.60055	4.35204	0.1391757	0.28492173	2.2872783	21	—	—
179778 2002 SY_{47}	16.4	X	227.66863	130.60890	187.90124	8.37433	0.2709398	0.29181168	2.2511319	21	2 8.6	20.4
179779 2002 SZ_{58}	17.2	X	92.53109	251.09629	31.34099	2.81139	0.1723059	0.26704814	2.3882311	21	11 28.9	20.8
179780 2002 SB_{60}	16.4	X	29.56441	253.59742	93.06171	6.00678	0.1733672	0.26649991	2.3915053	21	12 10.7	19.3
179781 2002 SP_{63}	16.9	X	92.78285	2.75398	312.05825	5.68362	0.1368628	0.27271137	2.3550523	21	—	—
179782 2002 SE_{65}	16.9	X	158.05743	312.14414	307.88328	5.25065	0.0923574	0.27337043	2.3512656	21	—	—
179783 2002 SD_{66}	16.7	X	32.23481	280.67992	95.85927	5.25120	0.0873344	0.27068441	2.3667945	21	—	—
179784 2002 ST_{70}	16.7	X	193.64867	246.56860	155.26361	4.40769	0.1833216	0.24432520	2.5341007	21	5 2.2	20.9
179785 2002 TB_{1}	17.0	X	48.67867	215.80793	124.80903	2.91480	0.2354357	0.26760139	2.3849383	21	—	—
179786 2002 TX_{2}	16.9	X	62.39998	147.79410	196.18161	0.95724	0.2001672	0.26889026	2.3773110	21	—	—
179787 2002 TU_{4}	15.7	X	5.01166	329.75706	41.05742	7.00058	0.1141262	0.26245997	2.4159837	21	11 24.8	18.2
179788 2002 TM_{8}	17.0	X	93.15240	207.12503	105.46515	3.69847	0.1836779	0.27049565	2.3678955	21	—	—
179789 2002 TO_{13}	17.0	X	122.56845	234.04839	157.80147	3.66401	0.2335280	0.22944265	2.6425302	21	2 17.1	20.7
179790 2002 TE_{14}	16.7	X	324.74256	282.22452	74.84588	5.26300	0.1921383	0.25517844	2.4617280	21	8 15.1	18.8
179791 2002 TM_{19}	16.8	X	247.62084	171.14159	193.16374	4.74979	0.1115790	0.24586822	2.5234873	21	5 10.1	20.4
179792 2002 TC_{20}	17.0	X	145.31033	65.76898	1.48178	3.58865	0.2517370	0.23665624	2.5885551	21	4 23.5	21.3
179793 2002 TJ_{21}	17.2	X	215.82465	48.17865	355.21619	3.19101	0.1597124	0.24506426	2.5290033	21	5 22.5	21.2
179794 2002 TB_{26}	17.1	X	133.22860	164.87210	150.45261	1.29312	0.2188984	0.27596528	2.3365034	21	—	—
179795 2002 TS_{27}	16.7	X	210.24013	303.87409	15.91418	4.77681	0.2287457	0.28766942	2.2726903	21	1 31.9	20.5
179796 2002 TD_{30}	16.0	X	153.13132	350.99961	40.84596	13.80067	0.1509987	0.23319874	2.6140783	21	3 17.7	20.2
179797 2002 TH_{33}	16.9	X	156.62771	50.36368	229.14472	1.45970	0.1940830	0.27591987	2.3367598	21	—	—
179798 2002 TQ_{35}	16.5	X	188.62445	132.10831	173.60834	4.45102	0.2253619	0.28253938	2.3001177	21	—	—
179799 2002 TA_{38}	16.5	X	214.57433	9.45158	48.51857	5.34029	0.2139524	0.24448625	2.5329877	21	6 6.9	20.6
179800 2002 TN_{38}	17.0	X	93.98027	341.89397	1.24186	1.15659	0.2071335	0.27192532	2.3595886	21	—	—
179801 2002 TX_{38}	15.9	X	234.21652	317.78262	30.74776	9.44352	0.1170437	0.23910763	2.5708323	21	4 5.9	19.9
179802 2002 TW_{43}	16.2	X	202.08128	328.10471	31.67046	8.22387	0.2123754	0.23720323	2.5845741	21	3 20.6	20.6
179803 2002 TR_{54}	16.7	X	173.16670	253.37949	67.25607	3.52777	0.2125842	0.28093479	2.3088676	21	—	—
179804 2002 TK_{62}	16.0	X	5.17757	123.91033	288.51397	3.76565	0.0338804	0.21639898	2.7476785	21	12 30.9	19.7
179805 2002 TS_{62}	15.9	X	356.51381	63.27453	347.22924	7.39412	0.1153719	0.21397176	2.7684185	21	12 24.3	19.2
179806 2002 TD_{66}	20.2	X	113.33667	125.87900	335.55574	4.92755	0.5350104	0.38940745	1.8572337	21	5 29.8	23.2
179807 2002 TO_{68}	15.9	X	164.74154	250.30561	168.22873	16.06870	0.1686716	0.23726216	2.5841461	21	4 29.1	20.2
179808 2002 TY_{69}	16.2	X	171.91357	254.37996	132.26866	13.74352	0.2037827	0.23334383	2.6129946	21	3 30.5	20.7
179809 2002 TZ_{72}	16.0	X	151.75177	289.30064	290.30509	3.65283	0.0248188	0.26152933	2.4217117	21	11 4.7	19.2
179810 2002 TC_{75}	16.8	X	15.92386	237.45981	89.06352	6.03948	0.1245260	0.26035242	2.4290044	21	10 15.9	19.4
179811 2002 TU_{75}	16.2	X	193.41848	78.12904	359.99012	13.34123	0.1240812	0.24569775	2.5246544	21	6 15.3	20.3
179812 2002 TD_{78}	16.6	X	53.65425	72.97848	221.09437	4.26889	0.1831902	0.26146375	2.4221167	21	11 2.6	19.5
179813 2002 TB_{79}	16.3	X	192.40764	284.94599	113.34464	5.71663	0.1554245	0.23989555	2.5652001	21	4 27.7	20.4
179814 2002 TD_{80}	17.1	X	34.31062	91.26942	226.56296	2.14472	0.0926991	0.26095231	2.4252804	21	10 24.5	19.8
179815 2002 TV_{80}	15.7	X	143.28961	239.09119	67.38599	12.57044	0.2442403	0.27517103	2.3409973	21	—	—
179816 2002 TF_{86}	16.4	X	156.17305	265.13011	352.37699	5.53427	0.1041583	0.27042546	2.3683052	21	12 29.5	19.9
179817 2002 TE_{89}	16.2	X	357.55027	22.88560	345.18040	5.76022	0.1237959	0.26111624	2.4242652	21	11 7.4	18.7
179818 2002 TC_{95}	17.0	X	255.74202	46.78297	247.06519	1.87578	0.2113188	0.29155275	2.2524645	21	2 3.5	20.7
179819 2002 TJ_{95}	16.5	X	210.45887	188.09810	194.34033	7.03603	0.0885482	0.24316845	2.5421309	21	4 24.4	20.3
179820 2002 TQ_{102}	16.9	X	142.40272	347.17681	298.21823	2.14676	0.1582037	0.27350498	2.3504944	21	—	—
179821 2002 TB_{104}	16.8	X	318.86678	112.92003	231.81569	5.51370	0.1263234	0.25512502	2.4620716	21	7 18.7	19.4
179822 2002 TC_{115}	15.5	X	168.65098	304.89027	332.47476	12.40429	0.1039330	0.22247165	2.6974471	21	—	—
179823 2002 TE_{121}	16.3	X	207.87905	91.90466	345.52069	7.19582	0.1488391	0.24665658	2.5181074	21	6 29.9	20.3
179824 2002 TN_{126}	16.5	X	196.93081	183.08879	133.16329	6.13608	0.2038359	0.28682895	2.2771277	21	1 14.1	20.2
179825 2002 TO_{130}	16.6	X	27.39447	133.03120	221.37439	5.59722	0.1247107	0.26611881	2.3937879	21	12 10.3	19.5
179826 2002 TE_{131}	16.3	X	278.30156	285.42673	115.54527	6.63257	0.1511056	0.25456365	2.4656899	21	8 1.7	19.3
179827 2002 TQ_{131}	16.2	X	156.77227	18.17959	319.37463	3.92964	0.2128488	0.28242174	2.3007564	21	1 5.5	19.5
179828 2002 TP_{133}	16.4	X	147.01434	359.14408	287.90050	7.66523	0.1326586	0.27573651	2.3377956	21	—	—
179829 2002 TW_{161}	16.7	X	238.69711	205.85907	153.40465	15.77042	0.1459009	0.24226241	2.5484651	21	4 25.2	20.9
179830 2002 TX_{162}	16.6	X	207.14416	213.59727	151.56960	16.08189	0.1756911	0.23827730	2.5768013	21	4 1.2	21.0
179831 2002 TC_{165}	16.0	X	121.97727	66.72396	28.60346	27.90562	0.1778514	0.23740626	2.5831003	21	4 26.4	19.8
179832 2002 TB_{179}	16.2	X	187.92680	56.54838	338.96328	11.39321	0.1919414	0.23819327	2.5774073	21	4 13.4	20.7
179833 2002 TB_{180}	15.6	X	196.62775	61.25380	358.64701	13.10886	0.1742269	0.24097018	2.5575680	21	5 22.8	20.0
179834 2002 TX_{180}	15.4	X	254.73081	30.32607	350.64569	13.42903	0.1964746	0.24500253	2.5294281	21	5 26.3	19.5
179835 2002 TX_{183}	15.7	X	317.40294	109.70631	245.45035	4.24948	0.1332106	0.25514771	2.4619256	21	7 31.1	18.3
179836 2002 TN_{198}	16.2	X	221.39955	38.33166	335.78632	12.10944	0.2038706	0.24309651	2.5426323	21	4 14.3	20.7
179837 2002 TE_{215}	16.8	X	24.41250	277.92115	66.24050	7.18068	0.1790740	0.26278493	2.4139915	21	11 29.6	19.5
179838 2002 TC_{218}	16.7	X	278.51559	61.24996	329.31930	5.94050	0.1147131	0.25294922	2.4761702	21	7 24.7	19.9
179839 2002 TY_{220}	15.3	X	175.37026	304.05032	328.85104	14.44217	0.1170016	0.22349701	2.6891905	21	—	—
179840 2002 TT_{222}	16.5	X	181.61782	31.83169	22.54585	5.35701	0.1366086	0.24015622	2.5633436	21	5 4.0	20.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
179841 2002 TB_{224}	16.0	X	186.16606	65.24615	251.34322	4.15094	0.1727328	0.28225651	2.3016542	21	1 3.6	19.5
179842 2002 TK_{225}	16.6	X	210.85647	209.52681	174.79199	4.09393	0.2491968	0.24076891	2.5589931	21	4 23.8	21.1
179843 2002 TN_{225}	16.5	X	225.00472	306.20443	55.21688	5.29574	0.1943596	0.24001997	2.5643136	21	4 9.6	20.7
179844 2002 TD_{229}	16.7	X	320.18928	298.14635	71.43863	5.78101	0.2024057	0.25585794	2.4573676	21	8 24.8	18.8
179845 2002 TS_{238}	16.0	X	293.48169	11.14603	31.25445	7.25135	0.1163689	0.25264609	2.4781504	21	9 5.6	18.8
179846 2002 TC_{246}	16.6	X	297.37590	235.53778	155.71036	5.59454	0.1459386	0.25457388	2.4656238	21	8 17.9	19.2
179847 2002 TY_{246}	17.0	X	176.41503	358.89370	44.82820	2.69062	0.1162824	0.23847013	2.5754120	21	4 16.0	20.7
179848 2002 TX_{248}	17.1	X	1.07273	181.31484	157.78123	1.97851	0.1460479	0.25907811	2.4369628	21	10 6.8	19.2
179849 2002 TL_{251}	16.5	X	95.67249	236.74438	70.53681	5.38049	0.0866473	0.26730689	2.3866897	21	12 27.2	19.8
179850 2002 TO_{253}	16.4	X	171.11069	122.27046	189.04345	6.79161	0.1366757	0.27757689	2.3274508	21	—	—
179851 2002 TP_{253}	16.2	X	151.92135	219.18291	92.56765	2.93799	0.2283679	0.27637322	2.3342036	21	—	—
179852 2002 TC_{255}	15.8	X	74.77188	34.63769	55.70816	10.38028	0.1523507	0.22822359	2.6519319	21	2 21.4	19.0
179853 2002 TR_{257}	16.6	X	76.87315	193.32487	138.43592	1.77162	0.1276616	0.26723038	2.3871451	21	—	—
179854 2002 TT_{258}	15.8	X	229.56251	257.99377	152.90981	3.88741	0.1140581	0.24536556	2.5269325	21	6 19.7	19.5
179855 2002 TQ_{260}	16.3	X	127.36542	321.37377	85.89340	4.33134	0.3134559	0.22952714	2.6418816	21	3 24.1	20.6
179856 2002 TV_{265}	15.7	X	131.62987	349.00714	60.94671	14.31724	0.1879099	0.22927363	2.6438287	21	3 23.8	19.9
179857 2002 TE_{266}	15.5	X	170.34420	172.85611	236.36791	4.46540	0.2688582	0.23495206	2.6010570	21	4 22.6	20.1
179858 2002 TZ_{266}	15.1	X	277.21554	129.07680	250.42938	5.30851	0.2313461	0.24549275	2.5260597	21	6 17.8	18.5
179859 2002 TP_{267}	16.4	X	284.15416	35.44332	282.73900	2.93601	0.1450892	0.24373915	2.5381611	21	4 15.6	20.0
179860 2002 TR_{270}	16.4	X	35.90518	328.85989	341.09580	6.07521	0.0869000	0.25950791	2.4342713	21	10 12.6	19.4
179861 2002 TD_{271}	16.8	X	122.50939	93.08590	344.36840	6.98013	0.1725352	0.23450563	2.6043571	21	4 5.0	20.7
179862 2002 TE_{272}	16.5	X	97.17083	61.01934	275.42928	3.63044	0.1057298	0.27199060	2.3592110	21	—	—
179863 2002 TF_{272}	16.0	X	98.68730	4.33808	321.21836	4.08861	0.1498709	0.27138113	2.3627419	21	—	—
179864 2002 TM_{274}	16.1	X	207.58475	93.15720	336.18921	5.52809	0.1138559	0.24568905	2.5247140	21	6 20.0	19.9
179865 2002 TZ_{274}	16.5	X	162.46171	123.52729	306.09185	1.71119	0.1834549	0.23860907	2.5744122	21	5 7.4	20.5
179866 2002 TG_{278}	15.8	X	78.22133	180.92996	244.04319	9.98603	0.2029684	0.22598675	2.6694025	21	1 22.5	18.8
179867 2002 TS_{281}	16.6	X	207.97123	90.82002	309.08529	4.21069	0.1916499	0.24189375	2.5510538	21	5 9.3	20.8
179868 2002 TH_{283}	16.0	X	149.57672	292.54206	353.03992	6.63980	0.1061078	0.27062046	2.3671674	21	—	—
179869 2002 TQ_{290}	16.4	X	6.85734	0.03491	354.13916	6.63693	0.1396675	0.25961834	2.4335810	21	11 5.2	18.9
179870 2002 TR_{291}	15.5	X	61.41013	15.69376	282.43484	6.74942	0.2050676	0.25933621	2.4353456	21	11 18.5	19.0
179871 2002 TV_{292}	15.3	X	122.28337	125.45080	241.34461	11.99583	0.2774788	0.22458823	2.6804727	21	1 20.2	19.4
179872 2002 TR_{298}	16.4	X	185.28628	97.25039	304.42826	3.27447	0.1318469	0.23864498	2.5741539	21	4 20.8	20.4
179873 2002 TA_{303}	16.2	X	218.66069	215.86813	191.93014	13.82147	0.0312840	0.24626958	2.5207447	21	6 9.8	19.9
179874 2002 TS_{315}	16.7	X	201.05072	227.86695	154.80154	11.96287	0.1994925	0.23911320	2.5707925	21	4 17.1	21.1
179875 Budavari	17.0	X	272.76283	330.41693	172.83289	7.22216	0.0585420	0.26914553	2.3758076	21	12 31.2	19.9
179876 2002 TS_{333}	18.0	X	169.52991	327.32621	161.17605	5.25998	0.1087377	0.25009801	2.4949541	21	7 26.9	21.7
179877 2002 TK_{340}	17.0	X	115.31032	84.38690	71.97509	5.70634	0.1553609	0.24558484	2.5254281	21	7 10.0	20.7
179878 2002 TX_{375}	16.5	X	106.69261	149.78438	283.51913	3.03322	0.1719423	0.23134999	2.6279861	21	3 12.7	20.0
179879 2002 UB	17.5	X	318.80794	30.84174	216.64270	22.64531	0.1170687	0.44819223	1.6910632	21	1 13.6	19.9
179880 2002 UE	16.6	X	193.46578	313.49807	55.10910	2.14925	0.1144647	0.23573610	2.5952865	21	3 20.8	20.5
179881 2002 UZ_{8}	16.0	X	199.95775	207.35941	158.22073	12.52701	0.2261039	0.23675259	2.5878527	21	3 25.4	20.5
179882 2002 UA_{15}	16.3	X	104.93715	100.19327	310.27035	11.69546	0.1661985	0.22710375	2.6606425	21	2 9.1	19.7
179883 2002 UE_{16}	16.5	X	169.55640	237.24767	185.86719	8.75172	0.1490600	0.23899828	2.5716165	21	5 6.5	20.6
179884 2002 UN_{16}	16.0	X	164.04430	324.94375	130.51472	6.78141	0.1894160	0.24041106	2.5615318	21	6 12.1	20.3
179885 2002 UK_{19}	16.4	X	64.63141	272.23953	160.82247	8.64223	0.1782626	0.22294008	2.6936672	21	1 8.7	19.2
179886 2002 UU_{20}	16.5	X	106.06478	357.11703	326.07014	1.65696	0.2452952	0.27166932	2.3610707	21	—	—
179887 2002 UE_{21}	16.5	X	172.59410	343.96042	33.18407	6.46806	0.1016406	0.23460224	2.6036421	21	3 11.4	20.4
179888 2002 UX_{26}	16.1	X	201.75549	261.95763	160.66626	6.89579	0.2302500	0.24293157	2.5437831	21	6 3.2	20.6
179889 2002 UQ_{27}	16.2	X	162.42136	173.13918	23.75460	6.46392	0.0523764	0.25780306	2.4449914	21	10 19.1	19.5
179890 2002 UA_{28}	16.1	X	70.77222	334.79448	108.56782	5.46204	0.2665170	0.22513566	2.6761258	21	2 18.8	18.6
179891 2002 UO_{28}	16.1	X	177.67837	315.08484	115.09880	7.51902	0.1365320	0.23987260	2.5653637	21	5 23.2	20.2
179892 2002 UB_{35}	16.6	X	114.77337	156.72979	160.63027	6.90264	0.1362337	0.27073710	2.3664874	21	—	—
179893 2002 UH_{37}	16.6	X	153.64742	79.63075	31.33242	3.76843	0.1672822	0.24141311	2.5544387	21	6 20.5	20.7
179894 2002 UT_{37}	16.7	X	22.55260	330.89347	13.75746	2.23107	0.1323886	0.26084427	2.4259500	21	11 18.9	19.4
179895 2002 UW_{37}	16.4	X	63.53112	88.35090	7.61043	2.47433	0.1719371	0.22628368	2.6670668	21	2 7.7	19.0
179896 2002 UT_{38}	16.5	X	127.30180	41.16576	49.19337	5.13341	0.1697508	0.23466407	2.6031847	21	4 29.3	20.2
179897 2002 UW_{39}	16.2	X	227.32072	95.77743	138.62726	2.66928	0.1849190	0.27294549	2.3537054	21	—	—
179898 2002 UW_{45}	16.2	X	68.84116	327.80442	125.74779	6.50299	0.2659141	0.22575821	2.6712038	21	3 1.5	18.7
179899 2002 UD_{46}	15.7	X	145.53440	326.96199	95.64964	12.40626	0.0935572	0.23402928	2.6078899	21	4 11.7	19.7
179900 2002 UO_{48}	16.5	X	101.56796	31.35630	9.94800	9.14207	0.3488308	0.22527901	2.6749904	21	2 24.9	20.2
179901 2002 UA_{67}	17.4	X	143.53573	311.71350	171.04773	6.26050	0.1527584	0.24421236	2.5348813	21	6 24.9	21.5
179902 2002 VO_{4}	13.3	X	296.06491	267.51578	41.98559	4.14409	0.0771125	0.08361590	5.1793686	21	5 13.3	20.1
179903 2002 VK_{7}	16.0	X	199.19495	356.20933	67.26044	6.91641	0.1088131	0.24225818	2.5484948	21	6 3.3	19.9
179904 2002 VE_{11}	16.5	X	243.04690	100.27314	257.87406	4.95256	0.1974001	0.24192888	2.5508068	21	4 17.8	20.6
179905 2002 VE_{13}	16.4	X	157.04731	134.01625	261.89980	2.72626	0.3199079	0.23390454	2.6088170	21	3 30.0	21.0
179906 2002 VN_{17}	15.7	X	120.68314	2.13249	83.70210	6.21151	0.1240803	0.23164749	2.6257355	21	4 13.0	19.4
179907 2002 VL_{20}	16.8	X	150.19272	253.90123	80.51228	2.62370	0.2131730	0.27894633	2.3198271	21	—	—
179908 2002 VU_{22}	16.5	X	103.26328	170.65801	250.12943	2.51880	0.1385188	0.22772347	2.6558132	21	2 15.9	19.8
179909 2002 VJ_{23}	15.9	X	112.44751	190.41113	240.35714	8.98339	0.1006453	0.22996742	2.6385085	21	3 3.6	19.7
179910 2002 VN_{24}	15.9	X	110.51532	65.36795	228.55818	4.97912	0.2833898	0.26694582	2.3888413	21	—	—
179911 2002 VZ_{27}	15.9	X	119.77537	174.03108	229.16644	8.45142	0.1660882	0.22748074	2.6577020	21	2 15.9	19.7
179912 2002 VZ_{28}	16.5	X	169.25394	186.14899	224.67806	1.60735	0.1582959	0.23661032	2.5888900	21	4 19.4	20.5
179913 2002 VU_{29}	15.7	X	174.32365	168.81638	241.43622	3.64769	0.1167839	0.23621373	2.5917869	21	4 21.1	19.6
179914 2002 VF_{34}	16.5	X	212.85267	142.05191	242.58456	2.63405	0.2171832	0.23903010	2.5713882	21	4 24.9	21.0
179915 2002 VE_{35}	15.9	X	43.77974	63.63764	26.34313	2.49838	0.0920074	0.22169119	2.7037742	21	—	—
179916 2002 VM_{40}	15.7	X	142.92227	239.72627	191.69470	11.30364	0.1400548	0.23360298	2.6110617	21	4 19.3	19.5
179917 2002 VF_{43}	16.8	X	170.17432	236.39347	138.56881	4.17784	0.1732505	0.23318599	2.6141735	21	3 9.4	20.9
179918 2002 VZ_{47}	15.4	X	108.01080	204.72797	205.08126	11.12107	0.1684336	0.22563484	2.6721773	21	2 10.5	19.1
179919 2002 VL_{48}	15.5	X	118.29597	146.81537	241.68308	12.73817	0.2613177	0.22453944	2.6808610	21	2 7.5	19.6
179920 2002 VQ_{48}	16.8	X	263.80928	209.10462	142.37645	2.04481	0.2691968	0.24429502	2.5343094	21	4 24.6	20.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
179921 2002 VL_{49}	16.0	X	252.05085	247.63749	104.02074	5.55513	0.2867269	0.24294359	2.5436992	21	4 15.5	20.4
179922 2002 VA_{51}	16.0	X	62.07424	8.73571	74.08210	7.43568	0.1516428	0.22498298	2.6773364	21	1 15.9	18.9
179923 2002 VO_{58}	15.9	X	175.13131	258.78047	147.30936	4.19889	0.1906394	0.23574405	2.5952282	21	4 22.1	20.2
179924 2002 VM_{59}	15.9	X	76.05076	281.05595	191.34809	12.64594	0.1101511	0.23035226	2.6355690	21	3 11.7	19.1
179925 2002 VO_{59}	16.1	X	154.83009	313.11106	126.02062	4.97026	0.1245704	0.23779060	2.5803162	21	5 10.8	20.0
179926 2002 VV_{68}	15.7	X	168.43858	259.33095	102.19819	14.31353	0.1995546	0.23052648	2.6342410	21	2 24.9	20.2
179927 2002 VA_{69}	15.9	X	120.64923	130.40239	291.90943	10.72274	0.1717397	0.23149423	2.6268943	21	3 11.3	19.8
179928 2002 VJ_{69}	16.2	X	159.24186	102.63977	309.69655	2.68267	0.2782647	0.23504834	2.6003467	21	4 17.9	20.7
179929 2002 VY_{72}	16.7	X	156.04442	263.76068	191.30159	8.27069	0.1288612	0.23951364	2.5679262	21	6 1.2	20.7
179930 2002 VV_{75}	16.1	X	96.13834	334.05410	89.73839	5.57412	0.1943486	0.22850251	2.6497734	21	2 22.0	19.4
179931 2002 VY_{77}	15.8	X	123.46230	253.38131	176.80230	6.68538	0.1110011	0.23137636	2.6277864	21	3 22.6	19.4
179932 2002 VL_{78}	16.2	X	251.57210	240.54949	137.56311	2.79869	0.1486627	0.24432760	2.5340841	21	5 28.7	19.8
179933 2002 VW_{79}	16.5	X	24.08139	299.74241	146.35476	4.41185	0.2665157	0.21754389	2.7380295	21	—	—
179934 2002 VV_{80}	16.5	X	214.22761	148.24760	217.96191	7.19136	0.2525339	0.23805848	2.5783801	21	4 2.3	21.1
179935 2002 VH_{81}	16.0	X	158.46722	228.06620	186.09325	3.25870	0.2100926	0.23399113	2.6081734	21	4 17.5	20.1
179936 2002 VY_{81}	15.8	X	166.45997	324.26173	78.35870	15.21657	0.1994531	0.23391790	2.6087177	21	4 16.5	20.4
179937 2002 VM_{85}	16.5	X	6.99508	27.45015	312.24177	4.32744	0.1253590	0.25755710	2.4465478	21	10 13.1	19.0
179938 2002 VK_{88}	15.5	X	230.18484	89.61343	259.35634	9.42193	0.1485266	0.23615786	2.5921957	21	3 25.9	19.9
179939 2002 VK_{89}	16.5	X	184.89942	278.62314	136.93038	4.98845	0.1920645	0.23802562	2.5786174	21	5 12.3	20.8
179940 2002 VJ_{90}	15.7	X	205.82477	275.57296	88.07188	16.22965	0.1453990	0.23554357	2.5967006	21	4 3.9	20.2
179941 2002 VK_{96}	16.5	X	350.13674	8.89902	332.96448	5.97364	0.0769584	0.25451465	2.4660064	21	9 13.2	19.0
179942 2002 VQ_{104}	16.2	X	136.81152	148.71659	277.25061	2.74707	0.1311887	0.23268094	2.6179550	21	4 2.3	20.1
179943 2002 VA_{106}	16.2	X	123.53826	54.25160	6.22239	4.14649	0.1658310	0.22974217	2.6402329	21	3 17.9	19.8
179944 2002 VD_{109}	15.3	X	134.92441	141.52285	260.05926	12.28454	0.1673056	0.22860552	2.6489773	21	2 28.2	19.5
179945 2002 VF_{109}	16.2	X	138.01076	85.92156	323.67252	2.63043	0.2118810	0.22998238	2.6383941	21	3 23.3	20.3
179946 2002 VK_{113}	16.2	X	157.08256	350.28313	71.67234	5.03441	0.1557259	0.23528950	2.5985696	21	4 23.4	20.3
179947 2002 VB_{114}	15.6	X	107.93294	359.49604	64.03989	16.56032	0.1228507	0.22795909	2.6539828	21	3 5.9	19.5
179948 2002 VQ_{125}	16.2	X	166.25604	90.23309	5.53758	6.05967	0.0846769	0.24106189	2.5569192	21	6 9.1	20.0
179949 2002 WR_{5}	16.5	X	141.44419	214.13583	241.17684	2.35968	0.1386339	0.23673437	2.5879855	21	5 16.9	20.2
179950 2002 WW_{5}	15.6	X	133.81259	294.56098	108.54281	22.10648	0.1916418	0.22942356	2.6426767	21	3 18.6	20.0
179951 2002 WW_{6}	16.5	X	231.64649	7.44143	341.73103	1.42572	0.1253488	0.23744259	2.5828368	21	4 1.8	20.5
179952 2002 WH_{8}	16.1	X	224.40013	122.43459	226.52250	4.38912	0.1171474	0.23556407	2.5965500	21	3 24.7	20.2
179953 2002 WL_{10}	16.1	X	249.59014	261.21031	95.96101	7.62330	0.1853348	0.24148587	2.5539255	21	4 28.5	20.1
179954 2002 WO_{10}	16.0	X	44.41785	47.02137	72.54481	15.73002	0.1763879	0.22405289	2.6847407	21	2 9.4	19.0
179955 2002 WN_{16}	15.6	X	44.18893	215.12359	217.51441	13.87099	0.1704429	0.21856913	2.7294606	21	—	—
179956 2002 WV_{18}	15.5	X	111.18420	278.97931	164.31488	11.51255	0.1532434	0.23119781	2.6291392	21	4 1.4	19.1
179957 2002 WF_{20}	16.7	X	16.94662	165.15119	54.77708	6.14111	0.1512909	0.23656922	2.5891898	21	5 4.1	19.2
179958 2002 WJ_{20}	17.0	X	136.45447	289.31215	114.09573	4.42402	0.1185270	0.23012068	2.6373370	21	3 6.3	20.8
179959 2002 XO	16.3	X	50.32089	307.58744	173.08449	4.99931	0.1922686	0.22566662	2.6719265	21	2 17.3	18.7
179960 2002 XF_{2}	16.6	X	74.40132	278.74054	123.74910	4.23283	0.1916646	0.22061677	2.7125455	21	—	—
179961 2002 XV_{3}	16.1	X	221.76367	143.15636	240.65590	3.41155	0.0921766	0.23958664	2.5674046	21	5 7.5	19.7
179962 2002 XZ_{3}	16.1	X	206.94444	340.87416	68.85234	3.05087	0.0804903	0.24050010	2.5608995	21	5 25.9	19.9
179963 2002 XO_{8}	15.9	X	218.72498	276.78351	86.86049	4.86139	0.0850225	0.23667761	2.5883993	21	4 11.4	19.7
179964 2002 XT_{8}	16.4	X	255.82958	149.37786	200.26176	2.98783	0.1961134	0.24179213	2.5517685	21	4 21.2	20.3
179965 2002 XW_{13}	16.7	X	129.73331	269.66614	139.05797	3.16271	0.1049747	0.22843213	2.6503176	21	3 2.6	20.3
179966 2002 XJ_{20}	16.4	X	78.79004	149.96446	351.14415	3.65927	0.1313096	0.23315535	2.6144026	21	4 27.6	19.5
179967 2002 XE_{23}	16.2	X	206.58369	39.92702	303.20753	2.86551	0.1699503	0.23383980	2.6092985	21	2 28.9	20.4
179968 2002 XH_{28}	16.5	X	157.21538	330.25126	81.35325	2.90004	0.0915037	0.23268248	2.6179434	21	4 5.5	20.4
179969 2002 XM_{33}	15.7	X	148.11344	341.47455	100.82914	13.70282	0.2034460	0.23680029	2.5875052	21	5 16.4	20.1
179970 2002 XG_{34}	16.1	X	151.59612	38.22620	42.64563	2.39424	0.1215265	0.23512903	2.5997518	21	5 7.7	19.8
179971 2002 XQ_{34}	16.4	X	142.19464	101.47161	322.97228	8.02733	0.1751146	0.23361818	2.6109484	21	4 8.1	20.5
179972 2002 XV_{34}	16.1	X	1.41770	308.08750	48.01148	6.70668	0.1154194	0.25647689	2.4534124	21	10 29.2	18.6
179973 2002 XZ_{36}	15.2	X	234.63820	338.66006	32.60741	13.04690	0.1836169	0.23776866	2.5804749	21	4 28.5	19.2
179974 2002 XE_{37}	15.5	X	187.62784	43.11832	25.95119	13.35585	0.1688381	0.23717285	2.5847948	21	5 26.8	19.8
179975 2002 XV_{41}	15.6	X	167.26722	350.50896	53.48694	14.97316	0.1147337	0.23340683	2.6125243	21	4 12.4	19.7
179976 2002 XS_{42}	16.3	X	165.23902	124.62258	245.93342	2.41764	0.1051319	0.22933890	2.6433271	21	2 20.6	20.2
179977 2002 XA_{43}	15.5	X	273.51497	269.62051	84.39109	6.26573	0.1461655	0.24209695	2.5496261	21	5 22.8	19.0
179978 2002 XR_{46}	16.3	X	137.92458	21.24205	29.81826	4.06670	0.2171744	0.22978199	2.6399279	21	3 27.4	20.3
179979 2002 XS_{48}	16.1	X	18.96917	250.34736	74.76988	8.22369	0.1199640	0.25435159	2.4670602	21	10 18.1	18.9
179980 2002 XB_{49}	15.8	X	193.91280	296.74625	68.57651	16.20137	0.0178909	0.23111799	2.6297445	21	3 24.0	19.7
179981 2002 XV_{51}	16.1	X	153.78970	304.92783	84.62336	10.01230	0.0625770	0.22838744	2.6506633	21	3 5.8	20.0
179982 2002 XB_{52}	15.7	X	267.82428	57.82899	296.75648	3.38415	0.2713607	0.24349381	2.5398657	21	4 29.8	19.7
179983 2002 XE_{52}	16.2	X	207.04134	5.09843	45.13489	1.66322	0.1755406	0.23965732	2.5668998	21	5 23.4	20.4
179984 2002 XQ_{53}	16.4	X	213.27559	244.45301	174.46025	2.05561	0.0974381	0.24241221	2.5474151	21	6 13.4	20.2
179985 2002 XX_{55}	15.6	X	233.97412	146.14640	244.07206	4.20634	0.2641214	0.23968427	2.5667074	21	5 17.2	19.8
179986 2002 XF_{62}	16.5	X	74.78460	133.21729	309.53497	4.35964	0.1345967	0.22464066	2.6800556	21	2 3.8	19.6
179987 2002 XN_{62}	15.5	X	351.34172	260.23908	274.20438	12.81723	0.0393577	0.22394362	2.6856140	21	1 23.9	19.2
179988 2002 XQ_{66}	15.9	X	283.54638	65.36214	260.96960	3.92972	0.2592287	0.24290486	2.5439696	21	4 10.5	19.7
179989 2002 XU_{71}	15.1	X	89.97174	174.87401	267.87046	13.18590	0.2190226	0.22682209	2.6628446	21	3 4.5	18.7
179990 2002 XX_{75}	15.8	X	26.30609	326.38859	69.93586	9.37108	0.3099618	0.21181677	2.7871638	21	—	—
179991 2002 XO_{78}	15.8	X	38.80760	74.64554	311.15758	6.33922	0.2338926	0.21156599	2.7893658	21	—	—
179992 2002 XE_{80}	15.9	X	116.18032	63.51337	25.19958	4.52124	0.1930853	0.22886883	2.6469452	21	4 17.7	19.6
179993 2002 XT_{81}	16.1	X	66.03004	87.21157	315.31550	5.51254	0.2461903	0.21670473	2.7450934	21	—	—
179994 2002 XH_{85}	15.6	X	95.87851	25.91115	8.00257	5.13590	0.1872841	0.22165226	2.7040908	21	1 12.8	18.9
179995 2002 XY_{95}	16.4	X	125.92582	109.31531	303.13829	1.71199	0.1500909	0.22928498	2.6437414	21	3 7.4	20.0
179996 2002 XW_{102}	15.9	X	205.76133	129.30602	233.81928	3.80513	0.1365921	0.23408994	2.6074394	21	3 23.9	20.1
179997 2002 XY_{108}	16.7	X	146.37372	107.29948	303.55950	1.97617	0.1948640	0.23234195	2.6205008	21	3 30.9	20.8
179998 2002 XL_{115}	16.3	X	92.56114	306.19873	18.79004	5.48796	0.1671996	0.26741773	2.3860301	21	—	—
179999 2002 YL	16.2	X	38.98211	358.37968	72.89552	5.63696	0.2067849	0.21515448	2.7582637	21	—	—
180000 2002 YT	15.7	X	42.52833	302.87539	134.60553	2.00082	0.2227079	0.21631913	2.7483546	21	—	—