Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
140001 2001 SO_{41}	15.5	X	315.24231	137.75291	198.82259	10.06607	0.1240931	0.19032160	2.9932569	21	6 30.8	19.4
140002 2001 SF_{42}	14.9	X	290.17072	114.14917	168.14211	11.02564	0.1469456	0.18051782	3.1006732	21	3 17.2	19.2
140003 2001 SM_{42}	15.3	X	223.87083	305.04987	106.22494	2.46103	0.0917760	0.18605314	3.0388648	21	6 16.8	19.8
140004 2001 SN_{42}	15.6	X	36.94919	70.54906	27.11287	5.21272	0.0999325	0.21563937	2.7541273	21	—	—
140005 2001 SR_{42}	15.9	X	91.78893	145.11529	180.26702	1.97059	0.0624484	0.20697981	2.8304189	21	12 31.2	20.1
140006 2001 SE_{43}	14.5	X	173.38980	49.68896	14.99955	18.43927	0.0756236	0.18096994	3.0955068	21	5 5.5	19.5
140007 2001 SG_{43}	14.8	X	90.87262	193.54015	121.98392	3.78279	0.0678027	0.20592383	2.8400870	21	12 18.9	18.9
140008 2001 SS_{43}	16.4	X	126.17803	223.68394	71.99189	2.25675	0.1820949	0.25953005	2.4341329	21	—	—
140009 2001 SU_{44}	16.6	X	146.41232	329.68781	104.97001	3.22873	0.1965833	0.27634071	2.3343867	21	4 29.3	20.1
140010 2001 SA_{45}	15.6	X	269.03681	237.87782	47.58546	4.83001	0.0295112	0.22551909	2.6730916	21	3 7.1	19.2
140011 2001 SA_{46}	14.8	X	265.37654	251.40652	158.02740	9.12270	0.0846005	0.19048091	2.9915878	21	8 1.9	19.1
140012 2001 SG_{47}	16.0	X	148.52850	260.68279	106.46926	4.17412	0.0567921	0.21951025	2.7216535	21	1 26.9	19.6
140013 2001 SA_{49}	15.0	X	335.14687	254.79738	28.35037	9.88627	0.0227769	0.18354001	3.0665417	21	5 30.4	19.3
140014 2001 SG_{49}	15.7	X	339.91019	241.09894	151.18764	2.47500	0.0539794	0.19857206	2.9097608	21	10 30.1	19.4
140015 2001 SE_{50}	14.7	X	310.42667	315.28098	43.90484	9.83091	0.1527493	0.19107977	2.9853338	21	7 23.7	18.5
140016 2001 SL_{50}	15.6	X	100.63542	322.15528	73.63321	7.04469	0.0502558	0.21588641	2.7520259	21	1 2.6	19.2
140017 2001 SE_{51}	15.3	X	186.02685	259.34363	20.30947	12.14609	0.1726622	0.21600730	2.7509990	21	—	—
140018 2001 ST_{51}	14.9	X	251.74282	300.19568	29.28301	15.61575	0.1055482	0.18032488	3.1028846	21	4 7.9	19.5
140019 2001 SO_{52}	15.0	X	137.47589	240.56919	167.47514	4.74001	0.1174406	0.17211404	3.2007999	21	3 18.9	19.7
140020 2001 SQ_{52}	15.4	X	105.62489	301.07788	182.64111	8.90861	0.1026388	0.22710850	2.6606053	21	5 10.5	19.1
140021 2001 SW_{52}	15.2	X	216.53959	8.62016	26.60046	13.28257	0.0692748	0.18171988	3.0869843	21	5 18.2	19.9
140022 2001 SH_{53}	15.6	X	191.28399	264.37992	35.99846	7.99936	0.1298200	0.21686761	2.7437187	21	—	—
140023 2001 SL_{54}	14.5	X	356.03918	266.10529	51.20464	10.69570	0.0869951	0.19137959	2.9822151	21	8 20.2	18.4
140024 2001 SC_{57}	14.7	X	251.47725	197.73243	180.33436	10.81477	0.0878400	0.18386940	3.0628783	21	6 7.3	19.3
140025 2001 SD_{57}	15.2	X	249.64978	196.24150	179.39051	10.26934	0.1131387	0.18345253	3.0675165	21	5 30.7	19.9
140026 2001 SK_{58}	16.3	X	31.84130	321.44305	179.23407	3.39098	0.0649014	0.26940281	2.3742948	21	1 27.7	18.8
140027 2001 SU_{59}	14.4	X	261.07181	355.35562	34.14645	16.49775	0.0517961	0.18595963	3.0398834	21	7 9.0	19.0
140028 2001 SZ_{61}	15.1	X	246.51189	189.57058	187.37868	10.84677	0.1087862	0.18358500	3.0660407	21	5 29.2	19.8
140029 2001 SV_{63}	15.5	X	159.82004	54.00035	53.39686	2.39731	0.0397058	0.23253948	2.6190166	21	6 15.6	19.0
140030 2001 SA_{64}	15.2	X	335.27484	201.38359	182.15300	8.94345	0.1080733	0.19580883	2.9370716	21	10 10.7	18.7
140031 2001 SP_{64}	14.9	X	343.40155	3.37238	37.95963	13.29580	0.1040054	0.19865687	2.9089326	21	11 14.5	18.3
140032 2001 SM_{65}	15.0	X	176.38451	225.04140	190.78901	9.30511	0.0728590	0.17730468	3.1380216	21	5 5.1	19.8
140033 2001 SK_{66}	14.5	X	92.02747	162.11499	37.66160	12.72280	0.0739384	0.18493811	3.0510672	21	7 31.8	19.0
140034 2001 SO_{66}	15.7	X	0.33450	331.60824	32.45526	15.57665	0.2841730	0.19772922	2.9180237	21	11 10.5	18.4
140035 2001 SO_{67}	16.6	X	191.93797	244.90671	153.03476	3.03623	0.2368923	0.27705236	2.3303875	21	4 24.0	20.6
140036 2001 SB_{71}	14.6	X	103.52037	328.75843	82.49433	10.33905	0.1548251	0.21461114	2.7629172	21	2 13.7	18.4
140037 2001 SA_{72}	14.9	X	245.14450	248.94749	190.37769	9.61721	0.1543663	0.18735586	3.0247619	21	8 5.3	19.6
140038 Kurushima	15.7	X	119.44366	245.12990	135.45208	7.28471	0.0504098	0.21560303	2.7544368	21	1 7.4	19.4
140039 2001 SO_{73}	18.1	X	101.44670	30.89677	197.20019	4.85538	0.5687831	0.40132874	1.8202703	21	10 31.6	21.9
140040 2001 SA_{76}	15.3	X	189.22019	249.48796	142.16640	1.88764	0.0845418	0.22589500	2.6701253	21	4 14.5	19.3
140041 2001 SZ_{77}	15.9	X	12.75844	174.10465	209.92973	1.28949	0.0809574	0.20425547	2.8555313	21	12 7.9	19.5
140042 2001 SV_{78}	15.6	X	359.14726	39.97299	167.23194	2.67814	0.0794337	0.22862965	2.6487909	21	3 17.9	18.5
140043 2001 SE_{80}	15.1	X	315.27290	264.18474	170.20638	15.16966	0.1291651	0.20455783	2.8527167	21	11 17.2	18.6
140044 2001 SJ_{80}	15.1	X	159.36341	294.44998	312.29755	8.32723	0.1462329	0.21113957	2.7931202	21	12 7.7	19.7
140045 2001 SZ_{80}	15.7	X	197.71581	123.37001	171.31266	7.32965	0.0455197	0.22084294	2.7106933	21	—	—
140046 2001 SQ_{81}	15.1	X	108.00475	188.97862	330.14436	8.96004	0.0260299	0.18952623	3.0016255	21	6 18.2	19.4
140047 2001 SR_{83}	16.3	X	207.26621	114.54242	314.57908	1.68209	0.1939167	0.23632942	2.5909410	21	6 16.1	20.4
140048 2001 SF_{84}	14.8	X	105.29932	200.35541	333.45535	11.81658	0.2112230	0.23986053	2.5654498	21	7 30.6	18.7
140049 2001 SW_{85}	16.1	X	147.25224	198.24154	214.38957	4.27465	0.0354684	0.22773348	2.6557354	21	3 18.1	19.7
140050 2001 SN_{86}	15.9	X	206.18650	77.95515	271.59627	1.63411	0.0230730	0.22875323	2.6478369	21	3 8.7	19.4
140051 2001 SJ_{90}	15.6	X	316.31721	83.10298	180.57989	9.30124	0.2257960	0.18408753	3.0604583	21	3 13.7	19.7
140052 2001 SS_{91}	15.4	X	34.27710	251.89952	228.65074	6.74560	0.1624578	0.21849112	2.7301103	21	1 15.2	18.3
140053 2001 SU_{95}	16.2	X	14.49237	41.21378	291.33885	0.86639	0.0938387	0.19858192	2.9096645	21	10 4.6	19.6
140054 2001 SV_{95}	15.2	X	53.34444	345.55057	181.30753	10.63092	0.0279851	0.18054318	3.1003828	21	4 20.2	19.4
140055 2001 SU_{96}	15.3	X	66.67195	283.34306	339.11152	9.21311	0.1027917	0.19680204	2.9271815	21	9 17.2	19.3
140056 2001 SY_{96}	15.2	X	145.21870	267.33501	201.68357	9.21643	0.1003646	0.18345454	3.0674941	21	6 7.1	19.9
140057 2001 SR_{98}	16.1	X	240.06413	133.00860	338.90741	3.95114	0.2199046	0.24433153	2.5340570	21	9 8.0	19.8
140058 2001 SA_{101}	15.4	X	257.04000	209.26872	10.73507	6.16206	0.0170770	0.21726540	2.7403687	21	—	—
140059 2001 SZ_{101}	16.3	X	62.84799	197.12675	188.63710	7.22474	0.0858701	0.21080665	2.7960601	21	—	—
140060 2001 SD_{102}	15.0	X	248.21878	131.88956	236.37443	8.43969	0.0886634	0.18423633	3.0588102	21	5 21.1	19.5
140061 2001 SO_{102}	16.1	X	135.86522	176.40986	209.04812	5.72968	0.0331047	0.22115925	2.7081080	21	1 28.8	19.9
140062 2001 SU_{103}	15.1	X	59.39705	200.37437	340.95928	1.47442	0.0922363	0.18239386	3.0793750	21	5 22.5	19.1
140063 2001 SB_{105}	15.1	X	276.67477	79.09543	255.27094	6.96959	0.1277935	0.18415182	3.0597460	21	5 5.3	19.6
140064 2001 SG_{105}	15.3	X	52.73388	324.93842	359.66735	11.54509	0.0952758	0.20059487	2.8901663	21	11 14.1	19.4
140065 2001 SZ_{105}	15.4	X	215.54675	135.65247	291.62386	3.36900	0.1894754	0.18426951	3.0584430	21	6 22.1	20.5
140066 2001 SR_{108}	14.2	X	172.96272	127.84616	317.31121	6.21692	0.2844797	0.17610733	3.1522289	21	6 8.9	19.9
140067 2001 SA_{111}	14.2	X	145.15201	211.98984	257.64892	13.43892	0.2528406	0.17467871	3.1693928	21	6 16.8	19.5
140068 2001 SK_{111}	13.8	X	126.27006	70.69032	43.48144	25.97493	0.2233532	0.17206763	3.2013753	21	5 30.3	19.2
140069 2001 SO_{111}	14.4	X	6.23115	329.28011	0.65389	12.01281	0.1411455	0.19319342	2.9635198	21	9 21.8	17.8
140070 2001 SY_{111}	14.6	X	213.27420	26.25719	13.43248	10.84002	0.2267180	0.17837517	3.1254540	21	5 13.7	20.1
140071 2001 SX_{113}	16.0	X	205.61306	129.44428	226.80570	5.11537	0.0615019	0.22629747	2.6669585	21	3 15.7	20.0
140072 2001 SP_{114}	14.5	X	30.25489	186.41131	10.17031	27.25013	0.0715663	0.17913783	3.1165768	21	4 18.8	18.8
140073 2001 SC_{115}	15.5	X	335.74539	255.78824	171.34442	3.33900	0.1411526	0.20116955	2.8846595	21	12 9.6	18.7
140074 2001 SM_{117}	16.1	X	167.40896	134.92571	279.26335	5.05168	0.1999998	0.22846786	2.6500413	21	4 22.6	20.6
140075 2001 SH_{118}	15.5	X	351.18036	88.53682	200.15817	9.70478	0.0823600	0.19025897	2.9939137	21	6 27.8	19.4
140076 2001 SR_{118}	16.0	X	290.71947	332.24277	233.09072	3.86804	0.0483616	0.21916068	2.7245469	21	—	—
140077 2001 SO_{119}	15.0	X	277.44415	319.55431	327.03805	9.45814	0.0740045	0.17932692	3.1143856	21	3 14.1	19.6
140078 2001 SU_{119}	15.0	X	148.86332	94.94317	330.24232	10.17700	0.0120055	0.17950249	3.1123546	21	4 4.9	19.6
140079 2001 SY_{119}	15.5	X	36.71382	239.37344	205.32445	8.82931	0.1489306	0.21404605	2.7677779	21	—	—
140080 2001 SA_{120}	15.6	X	76.69061	169.23159	250.96117	3.81693	0.0971426	0.21715244	2.7413190	21	1 5.2	19.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
140081 2001 SB_{120}	15.6	X	208.41934	334.53861	304.66303	4.62450	0.0516951	0.21814813	2.7329712	21	—	—
140082 2001 SO_{120}	16.1	X	65.19153	203.31758	201.47943	5.29309	0.0238838	0.21457231	2.7632506	21	—	—
140083 2001 SR_{120}	15.6	X	217.96711	356.81115	217.26034	3.46301	0.0449134	0.21014306	2.8019433	21	—	—
140084 2001 ST_{121}	16.1	X	147.25269	175.73708	241.39645	6.00700	0.0841660	0.22679602	2.6630486	21	3 28.3	19.9
140085 2001 SZ_{121}	14.7	X	161.88437	197.13635	227.77385	7.05002	0.1019948	0.17978252	3.1091218	21	4 30.4	19.5
140086 2001 SD_{122}	15.8	X	62.43527	152.18064	250.33679	3.74530	0.0682669	0.21317972	2.7752713	21	—	—
140087 2001 SM_{123}	14.9	X	21.11777	303.07108	330.67770	10.00553	0.0445916	0.19240070	2.9716543	21	7 25.7	18.8
140088 2001 SQ_{124}	15.9	X	111.20548	117.01526	234.23893	3.18203	0.0646822	0.21448678	2.7639851	21	—	—
140089 2001 SG_{127}	15.4	X	292.85956	70.45081	197.73046	3.37653	0.1391357	0.17976026	3.1093785	21	3 2.9	19.9
140090 2001 SL_{127}	15.8	X	335.23954	102.86346	292.09023	0.89777	0.0751601	0.20025774	2.8934091	21	10 25.5	19.3
140091 2001 SN_{128}	15.0	X	133.03964	155.78024	313.51712	9.76303	0.0849555	0.18226365	3.0808414	21	5 20.9	19.7
140092 2001 SR_{128}	15.3	X	282.91142	347.09435	187.95057	9.01243	0.1237817	0.21375754	2.7702678	21	—	—
140093 2001 SE_{129}	15.6	X	51.41475	127.36998	268.98002	2.14621	0.2010202	0.20946856	2.8079551	21	—	—
140094 2001 SH_{129}	15.3	X	47.78218	207.18775	213.18264	6.04258	0.1203665	0.21250520	2.7811410	21	—	—
140095 2001 SO_{129}	15.3	X	324.89393	189.94645	350.70960	14.44323	0.1237847	0.21890585	2.7266610	21	—	—
140096 2001 SQ_{129}	16.4	X	186.41509	123.14310	305.73032	2.41452	0.1650466	0.23217614	2.6217483	21	5 28.2	20.6
140097 2001 SL_{130}	15.9	X	190.16253	299.48936	316.46953	1.35584	0.0345934	0.21161557	2.7889302	21	—	—
140098 2001 SP_{130}	15.1	X	259.06249	67.82903	355.01328	9.50449	0.0298078	0.19284542	2.9670839	21	8 23.1	19.3
140099 2001 SE_{131}	16.2	X	138.72130	253.54004	210.83442	2.99979	0.1703614	0.22998961	2.6383388	21	5 29.3	20.2
140100 2001 ST_{131}	15.0	X	220.39182	26.11540	354.41065	8.77612	0.0605713	0.18247338	3.0784802	21	5 4.6	19.8
140101 2001 SV_{131}	16.2	X	304.84000	198.68221	330.02254	1.90228	0.1126629	0.26398890	2.4066463	21	—	—
140102 2001 SB_{132}	16.0	X	24.04090	105.73728	201.77511	2.08358	0.1082348	0.19636930	2.9314804	21	9 17.4	19.6
140103 2001 SH_{132}	15.5	X	183.22557	96.52786	191.84797	12.80789	0.0024216	0.21433786	2.7652652	21	—	—
140104 2001 SW_{132}	15.1	X	52.87878	69.91408	337.97976	4.38399	0.0594093	0.21205652	2.7850626	21	—	—
140105 2001 SN_{133}	15.6	X	212.98279	306.37237	322.09547	5.44385	0.1265918	0.21752400	2.7381964	21	—	—
140106 2001 SV_{133}	14.8	X	114.14353	287.94937	191.20978	21.86094	0.0527657	0.18049740	3.1009071	21	5 11.7	19.4
140107 2001 SZ_{133}	15.3	X	29.52543	86.87497	200.93365	8.45949	0.0348302	0.19283963	2.9671433	21	8 19.6	19.4
140108 2001 SA_{135}	15.3	X	68.31402	119.56059	185.13545	12.34635	0.0809694	0.20187199	2.8779639	21	11 12.7	19.5
140109 2001 SE_{135}	14.5	X	30.89877	178.80662	358.68038	10.44326	0.1613954	0.17721651	3.1390623	21	4 6.6	18.0
140110 2001 SD_{136}	15.0	X	353.73773	270.37194	3.69411	15.06473	0.0602400	0.18684005	3.0303263	21	6 11.6	19.2
140111 2001 SN_{136}	15.8	X	122.48496	150.46398	204.09637	5.69343	0.0692094	0.21478669	2.7614116	21	—	—
140112 2001 SK_{137}	15.5	X	77.26726	305.39896	302.36911	1.01275	0.0493214	0.19393264	2.9559842	21	9 5.1	19.5
140113 2001 SM_{137}	15.1	X	204.60097	62.44219	354.42270	3.48286	0.1043220	0.18382525	3.0633687	21	6 2.2	19.9
140114 2001 SO_{137}	15.7	X	1.69978	19.11938	320.63566	1.21650	0.1180326	0.19663773	2.9288119	21	9 25.2	19.0
140115 2001 ST_{137}	15.7	X	321.62700	53.68067	351.16937	1.43646	0.0720027	0.19850752	2.9103914	21	10 17.7	19.3
140116 2001 SX_{137}	16.1	X	296.16332	140.04672	257.81450	0.38326	0.1056527	0.24357852	2.5392769	21	8 31.2	19.1
140117 2001 SD_{138}	15.2	X	182.22901	237.37329	186.29919	3.00013	0.2382192	0.17988556	3.1079344	21	5 21.6	20.6
140118 2001 SR_{138}	15.8	X	158.07983	146.80422	209.64646	5.15286	0.0298537	0.21970119	2.7200765	21	1 19.9	19.6
140119 2001 SV_{138}	15.9	X	75.71184	196.05549	205.81268	5.55595	0.0552038	0.21398725	2.7682849	21	—	—
140120 2001 SB_{139}	15.8	X	181.20661	309.22182	350.21502	4.56706	0.0891242	0.21615757	2.7497239	21	—	—
140121 2001 SR_{139}	15.5	X	349.01157	132.72600	242.37054	0.96023	0.0722664	0.19856444	2.9098353	21	10 20.3	19.2
140122 2001 SG_{140}	15.1	X	200.68877	218.13133	189.96683	10.83955	0.0911114	0.18198549	3.0839799	21	5 20.9	19.9
140123 2001 SN_{140}	15.8	X	237.61978	256.00056	194.20781	11.14935	0.1348951	0.19053475	2.9910241	21	8 12.6	20.5
140124 2001 SA_{141}	16.3	X	102.60555	170.40241	194.62618	3.38132	0.1062981	0.21280365	2.7785401	21	—	—
140125 2001 SD_{141}	15.8	X	314.41677	24.75673	32.64596	2.29789	0.0565419	0.19884479	2.9070995	21	10 24.8	19.4
140126 2001 SV_{141}	16.7	X	141.07720	88.89946	271.50040	2.83884	0.0973548	0.21892113	2.7265341	21	1 14.4	20.6
140127 2001 SW_{141}	15.7	X	179.35273	316.31520	326.10799	5.13307	0.0105230	0.21368337	2.7709088	21	—	—
140128 2001 SZ_{141}	15.7	X	1.70415	169.36767	270.03675	2.49366	0.0759801	0.20952387	2.8074608	21	—	—
140129 2001 SG_{143}	14.1	X	117.63613	173.59247	343.01066	11.40780	0.1487408	0.18585218	3.0410551	21	7 13.9	18.9
140130 2001 SD_{144}	16.8	X	90.49515	148.92571	325.06520	3.16244	0.0948361	0.27624282	2.3349381	21	3 26.7	19.5
140131 2001 SB_{145}	15.6	X	14.71407	83.77580	195.41337	10.47735	0.0936651	0.19143741	2.9816147	21	7 21.8	19.5
140132 2001 SZ_{145}	15.8	X	192.72879	47.11558	188.45625	7.55989	0.0446148	0.20928799	2.8095700	21	—	—
140133 2001 ST_{146}	15.6	X	11.19638	57.54087	224.37091	1.04855	0.1369636	0.19125726	2.9834866	21	7 24.4	19.1
140134 2001 SS_{148}	15.7	X	194.19180	110.25930	213.56000	8.77150	0.0907122	0.22133613	2.7066650	21	1 23.5	20.0
140135 2001 SH_{149}	15.3	X	81.26761	43.23010	324.59571	5.77677	0.0154320	0.21051913	2.7986054	21	—	—
140136 2001 SQ_{151}	14.3	X	118.71455	286.91793	196.44816	21.82109	0.0940660	0.17956913	3.1115845	21	5 26.8	19.2
140137 2001 SR_{151}	14.6	X	290.83641	27.20831	5.13926	9.40672	0.0631186	0.19149320	2.9810355	21	8 21.5	18.7
140138 2001 SE_{152}	14.7	X	148.38400	49.92478	201.99153	10.19820	0.0821183	0.20426988	2.8553970	21	12 4.3	19.1
140139 2001 SS_{154}	15.8	X	106.86112	247.27806	200.26573	2.87261	0.0432091	0.22348965	2.6892496	21	3 14.3	19.4
140140 2001 ST_{154}	15.3	X	132.46106	285.71498	11.28464	8.68979	0.1364243	0.20893544	2.8127295	21	—	—
140141 2001 SE_{155}	15.2	X	316.73222	52.80139	339.54003	1.26907	0.0962512	0.19487499	2.9464471	21	9 21.5	18.9
140142 2001 SH_{155}	15.1	X	81.68794	144.58315	225.72655	1.96114	0.1529622	0.21000285	2.8031904	21	—	—
140143 2001 SF_{159}	14.8	X	286.07994	29.82979	354.02897	8.28802	0.0885562	0.18928617	3.0041628	21	7 30.0	18.9
140144 2001 SM_{159}	15.5	X	263.57111	195.21183	256.51505	3.31438	0.0918556	0.19530602	2.9421104	21	9 21.9	19.7
140145 2001 SS_{160}	15.0	X	247.42864	125.67040	220.38789	10.53607	0.1373976	0.18051276	3.1007311	21	4 17.3	19.7
140146 2001 SX_{160}	14.8	X	338.90944	332.12868	347.17064	8.06474	0.1146392	0.18928656	3.0041587	21	7 20.9	18.4
140147 2001 SZ_{160}	15.3	X	278.29108	115.78255	205.98423	9.05792	0.0869953	0.18226930	3.0807777	21	4 28.9	19.6
140148 2001 SA_{161}	14.4	X	285.63933	28.48728	358.60061	10.12242	0.1071913	0.18920377	3.0050349	21	7 31.7	18.6
140149 2001 SZ_{162}	14.8	X	305.28118	114.24547	326.12351	1.03259	0.0722060	0.19945050	2.9012109	21	11 8.7	18.5
140150 2001 SC_{163}	15.4	X	237.36744	202.38086	195.70394	12.02077	0.1438839	0.18478666	3.0527341	21	6 10.5	20.3
140151 2001 SS_{164}	14.6	X	338.51742	100.73751	203.04573	10.23328	0.0897263	0.18664914	3.0323924	21	6 27.5	18.5
140152 2001 SS_{165}	15.2	X	3.24359	140.56356	339.64010	10.76940	0.1250312	0.21510300	2.7587037	21	—	—
140153 2001 SX_{166}	16.1	X	3.23877	228.87251	165.29763	2.25600	0.0701897	0.20367114	2.8609903	21	12 6.2	19.7
140154 2001 SC_{168}	15.6	X	309.48135	337.11389	226.79395	5.00283	0.0434179	0.22046047	2.7138274	21	1 9.0	19.3
140155 2001 SE_{168}	15.6	X	94.61164	255.88739	55.82631	2.86155	0.0562850	0.20326591	2.8647915	21	12 16.6	19.7
140156 2001 SH_{168}	15.1	X	269.41119	52.61822	358.97341	9.56541	0.0830757	0.18996190	2.9970343	21	8 14.5	19.3
140157 2001 SH_{169}	15.6	X	312.81403	306.35140	155.04791	2.47692	0.0240236	0.20306177	2.8667111	21	12 19.7	19.5
140158 2001 SX_{169}	18.4	X	58.17449	42.66248	126.80500	2.51758	0.4609494	0.63028982	1.3472324	21	7 1.7	16.1
140159 2001 SK_{171}	16.0	X	124.86887	352.29642	141.20515	3.16614	0.2336779	0.23317002	2.6142929	21	6 27.2	20.1
140160 2001 SY_{173}	15.7	X	127.50154	315.79707	52.16671	7.02031	0.0736655	0.21591782	2.7517590	21	1 5.8	19.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
140161 2001 SE_{175}	15.7	X	213.65574	323.26962	107.71705	3.62864	0.0755516	0.23655691	2.5892797	21	7 1.3	19.4
140162 2001 SP_{176}	15.1	X	230.25553	347.14530	91.08117	5.07729	0.1775302	0.18663621	3.0325324	21	7 20.3	19.9
140163 2001 SM_{177}	15.9	X	100.22822	213.72657	147.56173	5.04450	0.0841688	0.21093374	2.7949370	21	—	—
140164 2001 SX_{177}	14.9	X	330.96195	192.42313	174.04929	13.39747	0.0788841	0.19293293	2.9661866	21	9 9.9	18.6
140165 2001 SN_{178}	15.7	X	176.93100	250.77855	189.27581	14.43792	0.1306470	0.22934413	2.6432869	21	6 3.7	20.1
140166 2001 SV_{178}	15.1	X	279.31157	178.82469	200.63595	16.65581	0.1295916	0.18636802	3.0354409	21	7 3.9	19.7
140167 2001 SA_{179}	15.3	X	306.58861	145.18555	199.62140	15.44097	0.2575009	0.18806937	3.0171067	21	6 8.7	19.4
140168 2001 SC_{179}	14.9	X	121.47877	45.75715	65.90787	12.73378	0.1766401	0.22386478	2.6862444	21	5 21.9	18.9
140169 2001 SU_{181}	17.1	X	94.92515	258.17333	150.40357	5.38356	0.2167587	0.26832816	2.3806299	21	1 21.6	19.4
140170 2001 SL_{182}	15.4	X	177.13551	66.26643	350.06824	18.25185	0.1758977	0.23184477	2.6242458	21	4 26.5	20.0
140171 2001 SS_{184}	16.1	X	307.71552	260.17860	338.74599	1.45902	0.0110680	0.22711976	2.6605174	21	2 24.5	19.7
140172 2001 SX_{184}	15.8	X	215.99246	267.56430	22.16676	5.39375	0.0217293	0.22148324	2.7054664	21	1 7.3	19.6
140173 2001 SY_{187}	16.0	X	271.66873	163.19084	112.53263	3.76827	0.0746516	0.22843598	2.6502879	21	2 18.7	19.7
140174 2001 SK_{188}	16.0	X	174.86707	310.73930	37.28815	4.14070	0.0759128	0.22350246	2.6891468	21	2 4.5	20.0
140175 2001 SW_{189}	16.3	X	348.61895	228.94021	356.19798	3.78581	0.0776609	0.23135344	2.6279600	21	3 25.1	19.5
140176 2001 SA_{192}	15.4	X	239.51539	75.34391	349.33571	9.13718	0.0668124	0.19119909	2.9840917	21	7 26.8	19.8
140177 2001 SC_{192}	15.9	X	154.73431	99.27278	190.39198	1.81790	0.0328617	0.21232425	2.7827209	21	—	—
140178 2001 SM_{195}	16.1	X	63.91455	310.64644	120.13021	2.00096	0.0874806	0.21702310	2.7424080	21	—	—
140179 2001 SK_{196}	15.6	X	280.64029	257.47276	176.67037	1.81953	0.0250652	0.19848678	2.9105942	21	10 3.7	19.3
140180 2001 ST_{200}	14.9	X	133.63032	139.93888	358.56190	7.05831	0.1177455	0.18594179	3.0400779	21	7 3.4	19.7
140181 2001 SZ_{201}	15.8	X	160.89872	102.64225	175.19971	5.74178	0.0704795	0.21136673	2.7911187	21	—	—
140182 2001 SO_{205}	16.4	X	130.34765	215.24140	151.74577	3.24780	0.0907782	0.21801260	2.7341037	21	1 9.2	20.1
140183 2001 SP_{205}	15.6	X	132.64041	274.02789	33.18361	4.78268	0.0587224	0.21127927	2.7918889	21	—	—
140184 2001 SO_{206}	15.9	X	14.73612	53.49592	177.40725	8.30305	0.0499434	0.18407244	3.0606256	21	5 20.3	20.0
140185 2001 SV_{206}	15.1	X	227.02295	201.00980	177.25871	13.13883	0.0201258	0.18337868	3.0683401	21	5 18.1	19.6
140186 2001 SZ_{206}	15.9	X	292.05556	302.42166	156.27282	2.44826	0.0242639	0.20306101	2.8667183	21	11 19.9	19.8
140187 2001 SF_{211}	15.9	X	22.25682	54.06069	6.19917	8.10855	0.0955358	0.20903828	2.8118070	21	—	—
140188 2001 SJ_{211}	16.4	X	41.54026	282.91178	176.79233	6.18804	0.0966571	0.26671640	2.3902110	21	—	—
140189 2001 SC_{213}	15.6	X	290.08322	183.96315	16.62809	9.60182	0.0965835	0.21739855	2.7392497	21	—	—
140190 2001 SJ_{214}	15.7	X	286.82966	272.10090	96.47019	2.91747	0.1229039	0.18967768	3.0000275	21	7 3.1	19.8
140191 2001 ST_{214}	15.5	X	276.81263	263.66251	147.51009	9.03763	0.2142035	0.19127060	2.9833480	21	7 31.0	19.7
140192 2001 SM_{215}	15.8	X	90.62415	285.31109	116.54264	5.69791	0.0929348	0.21572336	2.7534124	21	1 2.1	19.2
140193 2001 SE_{218}	16.0	X	90.50648	253.00106	145.93814	4.71302	0.1014054	0.21548938	2.7554052	21	—	—
140194 2001 SO_{218}	16.2	X	43.53360	304.92212	110.19399	0.80639	0.1194922	0.21094750	2.7948154	21	—	—
140195 2001 SE_{219}	15.5	X	232.54378	223.28711	8.25415	8.45879	0.1406920	0.21477276	2.7615310	21	—	—
140196 2001 SM_{219}	15.7	X	335.02390	149.16107	165.63114	1.37697	0.0511358	0.18944625	3.0024702	21	7 10.5	19.6
140197 2001 SC_{220}	15.6	X	287.64923	190.08805	173.89797	8.85481	0.0382194	0.18901865	3.0069967	21	7 9.8	19.9
140198 2001 SH_{221}	15.2	X	64.63731	102.43626	169.60614	2.62035	0.0432994	0.19551839	2.9399795	21	9 19.8	19.2
140199 2001 SV_{222}	15.5	X	226.37071	80.21146	17.01167	8.93868	0.0453582	0.19173930	2.9784842	21	8 25.5	19.8
140200 2001 SS_{223}	15.9	X	151.59788	168.21353	183.38435	7.64047	0.1361731	0.21836839	2.7311331	21	1 18.7	20.0
140201 2001 SP_{224}	15.4	X	330.31249	32.55192	27.43429	8.10953	0.0360168	0.20197133	2.8770201	21	11 19.0	19.3
140202 2001 SU_{224}	15.7	X	65.87091	225.58685	159.57670	6.57636	0.0670408	0.21039405	2.7997145	21	—	—
140203 2001 SC_{226}	15.8	X	285.28893	13.50585	151.27028	2.84457	0.1374811	0.25902699	2.4372834	21	—	—
140204 2001 SE_{226}	15.7	X	173.87045	331.09731	133.86598	2.41271	0.0719028	0.18523274	3.0478310	21	6 30.8	20.3
140205 2001 SQ_{226}	16.0	X	108.02074	69.13437	49.40195	4.12131	0.2070335	0.22600124	2.6692884	21	5 19.0	19.8
140206 2001 SB_{228}	16.4	X	144.23592	282.08385	29.29054	1.09873	0.2897175	0.21444219	2.7643683	21	—	—
140207 2001 SC_{228}	15.7	X	58.51577	297.77172	32.30315	2.36396	0.0651379	0.20218930	2.8749521	21	11 27.6	19.7
140208 2001 SV_{228}	15.4	X	166.03955	132.37613	167.87445	5.02025	0.1754168	0.21471701	2.7620089	21	—	—
140209 2001 SC_{230}	17.0	X	198.25289	106.48757	177.86319	3.93773	0.2142726	0.26752076	2.3854174	21	—	—
140210 2001 SU_{230}	15.4	X	257.05656	348.90196	81.88471	2.47457	0.1473654	0.19002245	2.9963976	21	8 12.3	19.8
140211 2001 SZ_{230}	15.4	X	346.98078	219.15857	142.06702	2.91050	0.1323218	0.19590377	2.9361226	21	9 30.8	18.7
140212 2001 SJ_{232}	15.1	X	292.45200	327.01125	25.98771	8.43005	0.0678772	0.18687740	3.0299225	21	6 28.9	19.3
140213 2001 SQ_{232}	15.6	X	189.42284	24.76882	64.78991	1.95333	0.1276890	0.18348250	3.0671825	21	6 27.6	20.4
140214 2001 SV_{234}	15.6	X	22.64033	290.41817	180.82048	3.22486	0.1615513	0.21241402	2.7819368	21	—	—
140215 2001 SY_{234}	16.1	X	91.51024	322.61463	47.37951	2.59704	0.1207834	0.21089969	2.7952378	21	—	—
140216 2001 SW_{235}	15.5	X	125.85364	203.49132	135.66474	5.23173	0.0742346	0.21269623	2.7794755	21	—	—
140217 2001 SA_{236}	15.0	X	262.70424	207.67834	151.44912	8.07607	0.1517203	0.18502948	3.0500627	21	5 20.5	19.7
140218 2001 SD_{237}	16.0	X	100.63059	126.15750	170.34202	4.57809	0.1482896	0.20588825	2.8404142	21	12 13.6	20.4
140219 2001 SS_{237}	15.8	X	356.45457	96.39231	179.11272	9.37266	0.1192587	0.18800229	3.0178243	21	6 18.5	19.5
140220 2001 SH_{238}	14.9	X	196.99617	279.98579	156.12444	10.48762	0.1242471	0.18306297	3.0718668	21	6 19.0	19.9
140221 2001 SC_{239}	15.9	X	191.58668	115.22071	149.73485	3.08039	0.1515276	0.21371166	2.7706642	21	—	—
140222 2001 SU_{240}	16.1	X	25.04642	210.12396	159.80131	2.36107	0.0834732	0.20362579	2.8614151	21	12 7.6	19.8
140223 2001 SX_{240}	16.1	X	350.22101	313.83648	128.10746	2.89899	0.0972869	0.20606264	2.8388115	21	—	—
140224 2001 ST_{241}	15.7	X	348.59664	222.10131	82.15532	2.65449	0.1031664	0.18942693	3.0026743	21	7 15.4	19.1
140225 2001 SU_{241}	15.7	X	322.34279	43.16049	82.82982	3.02911	0.0289270	0.20884954	2.8135007	21	—	—
140226 2001 SX_{241}	15.7	X	247.25011	313.50353	137.43058	0.90145	0.1908884	0.18972028	2.9995784	21	8 20.5	20.3
140227 2001 SC_{242}	15.3	X	206.60568	26.61966	33.35140	8.91866	0.1562618	0.18350091	3.0669774	21	6 5.4	20.3
140228 2001 SV_{242}	15.9	X	26.65183	258.40810	147.98600	2.90821	0.0508840	0.20658392	2.8340339	21	—	—
140229 2001 SC_{243}	15.5	X	262.35116	291.55406	110.19831	2.26636	0.0651085	0.18813675	3.0163863	21	7 23.1	19.8
140230 2001 SC_{244}	15.7	X	234.84820	263.97638	167.19811	7.99993	0.1380525	0.18805832	3.0172249	21	7 18.2	20.4
140231 2001 SQ_{245}	15.4	X	2.94264	157.42119	167.22338	2.27949	0.1387836	0.19322403	2.9632068	21	9 7.9	18.7
140232 2001 SY_{245}	15.4	X	25.00306	111.99138	201.17462	1.71759	0.1134708	0.19480772	2.9471253	21	9 27.1	19.0
140233 2001 SA_{246}	15.4	X	153.51016	349.60033	41.94816	1.23196	0.1917925	0.17216136	3.2002133	21	3 20.9	20.5
140234 2001 SD_{247}	15.0	X	242.29124	211.40181	48.28298	5.57270	0.1165118	0.21766480	2.7370154	21	—	—
140235 2001 SF_{247}	15.5	X	314.68407	202.46480	114.72068	2.20518	0.1454102	0.18665448	3.0323344	21	6 2.0	19.3
140236 2001 SE_{248}	16.1	X	100.92786	223.06572	26.32727	15.35663	0.0422531	0.24538905	2.5267713	21	10 13.2	19.4
140237 2001 SG_{248}	15.1	X	233.86919	7.29864	31.21791	11.09784	0.0814866	0.18389720	3.0625696	21	6 11.2	19.8
140238 2001 SJ_{248}	14.8	X	3.68094	127.35885	113.83688	1.96114	0.1159288	0.18111651	3.0938365	21	5 15.6	18.6
140239 2001 SS_{248}	15.9	X	189.71743	225.72650	33.85092	6.75321	0.0263253	0.20889424	2.8130994	21	—	—
140240 2001 SW_{248}	15.2	X	308.53146	330.49703	44.69152	2.74696	0.0973700	0.19092711	2.9869250	21	8 17.7	18.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
140241 2001 SW_{249}	15.6	X	63.69450	259.08939	71.41856	2.92589	0.0883090	0.20206956	2.8760877	21	12 7.8	19.6
140242 2001 SO_{250}	17.0	X	237.73475	292.78239	144.70585	3.72999	0.1998632	0.28753586	2.2733940	21	7 25.8	20.1
140243 2001 SP_{250}	15.0	X	35.47205	241.69412	42.25215	10.47815	0.0729976	0.19117725	2.9843189	21	9 4.7	19.1
140244 2001 SA_{251}	16.0	X	278.30339	256.31647	134.80080	2.88022	0.1786448	0.18865573	3.0108519	21	7 12.6	20.2
140245 2001 SM_{252}	14.8	X	328.53964	174.83285	194.74353	8.44451	0.0556454	0.19253068	2.9703167	21	9 10.4	18.7
140246 2001 SR_{252}	15.1	X	58.38652	203.07674	197.36931	14.36657	0.1298158	0.20890997	2.8129582	21	—	—
140247 2001 SY_{252}	15.7	X	282.05377	264.41992	71.56962	3.33124	0.2244637	0.18504339	3.0499098	21	5 2.4	20.2
140248 2001 SH_{253}	15.8	X	350.32962	223.49097	88.33125	3.01923	0.2263511	0.19163675	2.9795466	21	7 26.1	18.4
140249 2001 SL_{253}	15.5	X	121.91802	266.56450	65.44356	4.48026	0.0966130	0.21000671	2.8031560	21	—	—
140250 2001 SC_{255}	15.8	X	73.97816	170.66811	184.86938	1.85382	0.0806458	0.20642590	2.8354800	21	—	—
140251 2001 SN_{255}	16.4	X	110.24479	53.88839	128.18231	2.15404	0.1000194	0.28596634	2.2817047	21	8 2.3	19.4
140252 2001 SB_{256}	15.3	X	172.45213	42.16099	41.29283	10.76895	0.0961689	0.18044475	3.1015103	21	6 1.5	20.2
140253 2001 SV_{256}	16.1	X	10.78172	171.66734	65.00635	3.03847	0.0358008	0.23045333	2.6347984	21	5 17.3	19.2
140254 2001 SK_{257}	16.4	X	45.90686	17.90051	35.83881	4.11766	0.0923445	0.20916173	2.8107005	21	—	—
140255 2001 SN_{257}	14.5	X	187.94861	207.92355	177.67383	7.22246	0.1909863	0.17415576	3.1757342	21	4 11.9	19.8
140256 2001 SB_{258}	15.3	X	222.71314	51.41771	24.11886	11.28721	0.1074650	0.18840427	3.0135302	21	7 17.3	20.1
140257 2001 SE_{258}	16.0	X	16.55375	215.00682	346.35967	3.92523	0.0847344	0.23154727	2.6264931	21	4 4.9	19.1
140258 2001 SN_{260}	16.1	X	63.18678	134.95058	224.59873	1.62783	0.0855384	0.20672264	2.8327659	21	—	—
140259 2001 SQ_{260}	15.2	X	193.31195	204.18627	193.25712	5.14483	0.1686886	0.17877451	3.1207979	21	4 29.5	20.3
140260 2001 SG_{263}	16.0	X	164.58077	328.47893	76.46758	5.43545	0.1974800	0.22615488	2.6680794	21	4 13.2	20.4
140261 2001 SJ_{263}	14.9	X	189.53905	111.85088	285.83152	10.30962	0.2028549	0.22729727	2.6591320	21	4 18.8	19.6
140262 2001 SZ_{263}	14.3	X	141.87680	153.05450	284.76708	20.84298	0.0854508	0.17713476	3.1400280	21	4 15.9	19.5
140263 2001 SO_{265}	15.6	X	245.49054	141.81662	208.31269	16.31816	0.2039921	0.18095907	3.0956307	21	4 15.5	20.7
140264 2001 SR_{267}	15.6	X	121.90285	261.50864	60.95418	7.98621	0.2153784	0.20920888	2.8102781	21	—	—
140265 2001 SL_{270}	15.5	X	296.61282	226.00269	109.79813	14.73867	0.3564152	0.23848057	2.5753369	21	5 2.7	19.5
140266 2001 SW_{270}	15.3	X	202.95134	154.51019	269.74365	3.68848	0.1352694	0.23084392	2.6318255	21	6 7.9	19.3
140267 2001 SK_{271}	14.9	X	309.79941	86.51804	197.71065	9.00949	0.0538172	0.18040056	3.1020167	21	4 27.0	19.0
140268 2001 SM_{271}	16.2	X	99.07744	349.63901	20.69408	1.08512	0.1264971	0.21231819	2.7827738	21	—	—
140269 2001 SR_{271}	15.6	X	225.68978	67.95603	302.20236	3.48770	0.1610461	0.18131983	3.0915233	21	4 23.2	20.7
140270 2001 SZ_{271}	14.9	X	121.69577	50.08100	24.02944	4.34982	0.1638884	0.17162941	3.2068224	21	4 7.5	19.6
140271 2001 SF_{272}	14.8	X	236.29091	131.03237	210.73911	6.75966	0.1631119	0.17869145	3.1217650	21	3 30.7	19.8
140272 2001 SL_{272}	15.5	X	232.95811	51.14641	124.60308	3.82837	0.1311443	0.25581360	2.4576515	21	12 5.8	18.7
140273 2001 ST_{273}	15.9	X	22.13621	291.83943	13.71182	2.91563	0.0995274	0.19426428	2.9526190	21	9 11.8	19.6
140274 2001 SX_{275}	15.5	X	207.82603	254.19143	156.78773	8.25089	0.2277076	0.17888983	3.1194567	21	5 27.4	20.9
140275 2001 SL_{276}	14.9	X	47.99170	51.70275	37.30424	9.28167	0.1360664	0.21178222	2.7874669	21	1 1.8	18.1
140276 2001 SM_{276}	15.1	X	193.11120	297.61053	126.78501	15.74080	0.2252438	0.22986132	2.6393204	21	6 1.4	19.9
140277 2001 SP_{276}	14.7	X	82.53461	85.95156	73.52328	14.25229	0.1353742	0.22877225	2.6476901	21	5 31.3	18.0
140278 2001 SR_{277}	14.8	X	219.70745	129.74176	290.68642	7.62328	0.1763492	0.18273297	3.0755640	21	6 18.3	19.8
140279 2001 SY_{277}	14.6	X	345.59214	359.48617	355.11052	10.59108	0.1016332	0.19282276	2.9673164	21	9 17.6	18.1
140280 2001 SF_{278}	15.0	X	98.92063	219.63271	247.12842	8.13933	0.1475437	0.22195508	2.7016307	21	4 12.0	18.7
140281 2001 SV_{280}	14.7	X	286.15250	31.36951	19.65727	9.95727	0.0869277	0.19167160	2.9791854	21	9 5.7	18.7
140282 2001 SO_{281}	14.6	X	254.40733	27.06669	1.84935	10.18456	0.1443408	0.18516196	3.0486076	21	6 15.9	19.3
140283 2001 ST_{281}	14.7	X	329.70496	212.73003	232.09907	15.37356	0.2156428	0.20082583	2.8879500	21	12 21.8	17.6
140284 2001 SO_{282}	15.7	X	292.21130	203.86283	163.03316	10.70625	0.1381857	0.19070879	2.9892042	21	7 5.3	19.8
140285 2001 SH_{286}	14.8	X	291.19211	261.15182	152.39131	14.55334	0.1505723	0.19255007	2.9701173	21	9 3.7	18.4
140286 2001 SV_{286}	14.4	X	333.21060	265.03628	82.35586	10.43480	0.0860481	0.19184209	2.9774201	21	8 23.1	18.3
140287 2001 SC_{287}	14.5	X	314.37535	242.12111	105.58888	16.32615	0.1341756	0.18930599	3.0039531	21	7 14.4	18.3
140288 2001 SN_{289}	16.7	X	208.19821	225.60159	357.09619	53.22589	0.5077595	0.41367157	1.7838798	21	—	—
140289 2001 SW_{289}	15.0	X	126.46115	51.28118	265.47659	7.88172	0.1512318	0.21157171	2.7893156	21	—	—
140290 2001 SO_{290}	14.2	X	49.89225	188.26876	256.00024	26.93138	0.1845874	0.21405893	2.7676668	21	—	—
140291 2001 SO_{292}	15.4	X	86.63475	123.71350	302.04277	7.89402	0.1634002	0.21979410	2.7193098	21	2 4.3	18.7
140292 2001 SC_{295}	16.2	X	159.38040	142.38276	200.33318	2.29818	0.0379026	0.22034567	2.7147700	21	1 6.3	19.9
140293 2001 SQ_{299}	16.2	X	49.83681	329.38437	217.83516	3.90839	0.0575225	0.23261590	2.6184429	21	5 8.8	19.2
140294 2001 SO_{302}	16.2	X	31.00656	243.17668	186.91611	5.91739	0.0170825	0.21259034	2.7803984	21	—	—
140295 2001 SH_{304}	15.9	X	53.56368	113.55389	224.02395	1.22868	0.0730022	0.20322625	2.8651642	21	12 2.4	19.6
140296 2001 SR_{305}	15.7	X	43.88067	279.14851	13.35656	11.95426	0.0200727	0.19425983	2.9526641	21	9 18.2	19.7
140297 2001 SW_{305}	14.8	X	132.61612	90.70526	4.16149	15.98517	0.0881664	0.17594183	3.1542055	21	4 29.9	19.7
140298 2001 SO_{307}	15.9	X	83.44285	266.17231	159.91435	7.68528	0.0280386	0.21869565	2.7284078	21	1 13.8	19.6
140299 2001 SU_{311}	15.9	X	324.39593	295.75291	192.29982	7.19876	0.1476833	0.21039955	2.7996657	21	—	—
140300 2001 SW_{311}	14.8	X	69.71759	285.90792	231.60200	10.40899	0.0325348	0.17932574	3.1143993	21	4 27.9	19.0
140301 2001 SL_{312}	15.7	X	153.19329	316.35056	38.24472	6.79779	0.0429359	0.22122203	2.7075956	21	1 15.9	19.6
140302 2001 SQ_{312}	16.0	X	320.08610	239.40515	190.69155	1.75471	0.0460828	0.20367660	2.8609392	21	11 19.8	19.7
140303 2001 SK_{313}	14.6	X	173.22598	70.83078	38.00649	16.76388	0.0967794	0.18558733	3.0439476	21	7 6.3	19.6
140304 2001 SR_{313}	14.8	X	264.45959	336.32953	63.23779	11.33631	0.1798052	0.18887481	3.0085231	21	7 7.2	19.3
140305 2001 SA_{314}	15.9	X	105.03615	337.88981	80.17639	6.35753	0.0501568	0.22040199	2.7143075	21	2 6.3	19.5
140306 2001 SB_{314}	15.5	X	61.03550	173.13376	151.08823	10.00389	0.0643357	0.20258327	2.8712234	21	11 26.1	19.6
140307 2001 SM_{315}	15.5	X	187.95168	67.73435	354.73107	15.56500	0.2734475	0.17772338	3.1330910	21	5 19.2	21.3
140308 2001 SK_{316}	15.4	X	317.68136	55.99617	319.33957	11.15436	0.0543189	0.23896761	2.5718365	21	9 5.0	18.5
140309 2001 SL_{318}	16.8	X	198.83081	49.11272	55.56028	4.38239	0.1040558	0.28925626	2.2643708	21	7 30.4	19.9
140310 2001 SN_{318}	16.1	X	341.66788	13.52164	52.22288	2.80270	0.0518057	0.20534495	2.8454221	21	12 14.4	19.6
140311 2001 SR_{319}	16.0	X	270.68427	345.69781	163.13861	2.41406	0.0150733	0.20642156	2.8355198	21	12 25.8	19.8
140312 2001 SY_{319}	15.5	X	352.84461	100.48877	176.26898	9.67757	0.0430175	0.18602476	3.0391739	21	6 16.8	19.7
140313 2001 SD_{320}	15.0	X	76.46828	192.57205	17.44316	10.03089	0.0604126	0.18706981	3.0278446	21	7 21.5	19.3
140314 2001 SV_{320}	15.0	X	139.24882	135.59224	334.51718	9.77849	0.0759728	0.18175771	3.0865560	21	5 28.3	19.7
140315 2001 SG_{321}	15.3	X	72.89432	328.84777	85.07881	8.04268	0.1316904	0.21589657	2.7519395	21	—	—
140316 2001 SE_{322}	16.0	X	212.61728	309.43232	117.13018	6.27755	0.1690145	0.23509802	2.5999804	21	6 19.1	20.1
140317 2001 SO_{323}	15.5	X	55.96270	344.20013	83.73479	6.96403	0.0488762	0.21499122	2.7596599	21	—	—
140318 2001 SQ_{323}	16.5	X	96.82014	103.31227	218.55236	11.83802	0.1705152	0.20923595	2.8100357	21	—	—
140319 2001 ST_{327}	15.1	X	227.42844	303.14572	155.89771	10.53211	0.0633143	0.19245181	2.9711282	21	8 22.9	19.5
140320 2001 SX_{327}	15.0	X	265.96454	290.09454	60.21779	8.29800	0.0474629	0.18435680	3.0574775	21	5 24.5	19.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
140321 2001 SD_{330}	15.3	X	187.09780	299.65807	172.75866	12.07001	0.0581421	0.19061287	2.9902069	21	7 23.4	20.0
140322 2001 SD_{334}	16.2	X	134.76775	272.65724	327.38756	0.69285	0.0685193	0.20058898	2.8902229	21	11 4.2	20.4
140323 2001 SD_{337}	16.2	X	196.34259	74.37637	221.46669	5.71813	0.1184371	0.21811936	2.7332115	21	—	—
140324 2001 SK_{337}	17.3	X	313.10001	298.05322	163.49174	2.15392	0.1920624	0.25254543	2.4788089	21	12 30.5	19.3
140325 2001 SC_{339}	15.2	X	95.84669	82.93186	287.06689	10.47704	0.1059591	0.21559770	2.7544822	21	—	—
140326 2001 SV_{339}	15.2	X	213.73537	207.48723	311.05322	10.90046	0.0180466	0.20017326	2.8942231	21	10 21.5	19.6
140327 2001 SY_{339}	15.4	X	312.76072	78.09757	228.43273	10.00550	0.1269600	0.18639870	3.0351078	21	5 18.6	19.2
140328 2001 SD_{343}	14.7	X	176.89641	6.09360	115.30496	11.29710	0.0514938	0.19064741	2.9898457	21	7 25.3	18.9
140329 2001 SM_{344}	15.5	X	189.13796	45.14305	263.37262	9.04992	0.0649699	0.21945568	2.7221048	21	—	—
140330 2001 SY_{347}	15.5	X	331.08945	129.73982	296.13873	14.05365	0.1252691	0.20310825	2.8662738	21	11 28.2	19.0
140331 2001 SG_{349}	16.1	X	214.97230	289.99244	192.31158	17.02445	0.1203792	0.24050584	2.5608588	21	9 2.2	20.2
140332 2001 SK_{350}	15.4	X	72.25157	249.34204	32.27380	10.19172	0.1363845	0.19659308	2.9292554	21	10 24.6	19.4
140333 2001 TD_{2}	19.2	X	82.39179	199.07227	12.83629	19.03398	0.4814999	1.04481404	0.9618560	21	10 31.4	19.5
140334 2001 TU_{3}	15.5	X	253.57154	23.14638	214.20813	13.58612	0.1087020	0.21544269	2.7558033	21	—	—
140335 2001 TZ_{3}	14.7	X	17.30277	37.71279	216.73947	9.62149	0.1352684	0.18559376	3.0438772	21	6 26.1	18.3
140336 2001 TP_{4}	15.4	X	203.67606	193.37475	201.06409	2.35961	0.0688594	0.18099401	3.0952323	21	5 6.6	19.9
140337 2001 TS_{4}	16.3	X	13.26859	74.88877	310.73755	1.04428	0.0756956	0.20309607	2.8663884	21	12 9.6	20.0
140338 2001 TX_{4}	15.3	X	5.58067	324.01614	163.69810	14.60690	0.1127892	0.21599090	2.7511382	21	—	—
140339 2001 TP_{5}	15.5	X	69.74750	325.09011	87.69835	7.73757	0.0705781	0.21589815	2.7519261	21	—	—
140340 2001 TO_{7}	15.0	X	181.63336	22.52446	34.64010	10.82893	0.2230002	0.17741823	3.1366824	21	5 11.5	20.4
140341 2001 TR_{7}	16.3	X	70.72402	193.84886	219.78145	1.04774	0.1370327	0.26210435	2.4181685	21	—	—
140342 2001 TG_{8}	15.1	X	317.91621	86.61132	281.27366	7.47068	0.1072010	0.18961484	3.0006902	21	8 17.2	18.9
140343 2001 TX_{10}	15.2	X	123.08244	192.10771	250.74824	2.08016	0.1740660	0.22260750	2.6963495	21	4 15.4	19.3
140344 2001 TO_{11}	15.6	X	42.11610	319.02352	4.69677	1.67887	0.0780681	0.19924132	2.9032411	21	10 30.9	19.5
140345 2001 TV_{12}	16.3	X	221.60727	323.59947	73.98212	24.16237	0.0955514	0.37564894	1.9023099	21	5 22.4	18.6
140346 2001 TO_{14}	14.8	X	306.91089	354.56141	353.30320	10.22886	0.0711112	0.18793164	3.0185806	21	7 14.1	19.0
140347 2001 TT_{14}	14.7	X	324.14078	64.66883	226.43812	13.98350	0.0779714	0.18317591	3.0706040	21	5 22.0	18.7
140348 2001 TK_{15}	13.9	X	69.64334	357.47429	69.90800	14.23943	0.2000594	0.16298703	3.3192046	21	2 3.7	18.2
140349 2001 TU_{15}	14.7	X	18.05129	181.68780	140.98980	11.74227	0.1327299	0.19691220	2.9260897	21	10 5.8	18.3
140350 2001 TL_{16}	15.1	X	122.34725	47.76119	78.38628	16.07277	0.0613910	0.22979775	2.6398072	21	5 28.6	18.7
140351 2001 TD_{18}	15.0	X	291.95413	309.71484	42.75238	11.06648	0.1188155	0.18472165	3.0534502	21	6 18.6	19.2
140352 2001 TK_{18}	14.9	X	234.39733	175.14317	241.00336	3.12032	0.1868975	0.23372750	2.6101342	21	6 25.2	18.8
140353 2001 TX_{18}	14.7	X	272.48118	336.15582	99.64547	13.24364	0.1257217	0.19057053	2.9906497	21	9 15.6	19.0
140354 2001 TM_{19}	14.6	X	209.59291	86.95032	340.75171	10.79410	0.0742516	0.18232037	3.0802024	21	6 23.7	19.4
140355 2001 TN_{19}	15.3	X	86.12680	280.42629	277.95159	12.81533	0.0668912	0.23361945	2.6109389	21	7 16.4	18.7
140356 2001 TY_{19}	14.8	X	348.66756	38.80249	353.34703	12.95459	0.1088404	0.19717745	2.9234649	21	11 7.4	18.5
140357 2001 TY_{20}	14.7	X	156.93361	114.01349	352.59308	14.00637	0.1663431	0.17867568	3.1219487	21	6 18.9	20.0
140358 2001 TH_{21}	14.9	X	73.15528	313.54015	354.34785	13.41182	0.1010840	0.19865502	2.9089506	21	11 17.9	19.3
140359 2001 TL_{22}	15.0	X	53.37595	350.50307	309.94110	1.62736	0.1263071	0.19834049	2.9120252	21	10 22.9	19.0
140360 2001 TD_{23}	15.9	X	134.04259	41.18807	93.56805	2.08800	0.0715179	0.23346048	2.6121241	21	6 23.4	19.6
140361 2001 TN_{23}	15.8	X	170.03606	239.78040	352.09183	2.00374	0.1534576	0.25458866	2.4655284	21	12 5.7	19.6
140362 2001 TQ_{23}	16.4	X	222.60736	357.09024	300.26979	0.59962	0.1739196	0.22118670	2.7078839	21	1 21.9	20.9
140363 2001 TP_{24}	14.8	X	154.01518	97.83966	319.96027	7.06362	0.0258873	0.17606055	3.1527874	21	4 4.9	19.5
140364 2001 TD_{27}	14.8	X	154.55674	62.98246	16.24515	14.85972	0.0684550	0.17762522	3.1342452	21	5 4.5	19.7
140365 2001 TL_{27}	14.4	X	162.84214	48.35945	3.80177	6.68000	0.0691568	0.17546545	3.1599118	21	4 13.3	19.2
140366 2001 TK_{28}	15.7	X	156.23056	229.39278	286.20030	4.03772	0.0765485	0.23713314	2.5850834	21	8 15.6	19.4
140367 2001 TP_{28}	15.2	X	226.74762	80.06450	335.12418	6.48214	0.1908651	0.18337400	3.0683922	21	6 17.1	20.2
140368 2001 TC_{29}	16.3	X	206.76619	35.70805	339.97901	2.79482	0.1906906	0.22697137	2.6616769	21	4 9.8	20.7
140369 2001 TO_{29}	15.9	X	191.60767	54.56570	242.18998	1.68713	0.0477865	0.21444519	2.7643425	21	—	—
140370 2001 TU_{30}	15.1	X	260.13668	9.58041	53.66278	16.45693	0.0766959	0.18922695	3.0047895	21	8 23.7	19.7
140371 2001 TY_{30}	15.1	X	267.21003	246.87280	171.89189	8.91351	0.0886457	0.18932095	3.0037948	21	8 15.4	19.3
140372 2001 TW_{32}	14.9	X	303.23080	319.50639	9.84784	10.77334	0.1054373	0.18264969	3.0764989	21	6 4.9	19.3
140373 2001 TL_{34}	14.8	X	166.58464	296.30317	262.48847	14.01215	0.0686013	0.19277444	2.9678122	21	10 13.2	19.5
140374 2001 TM_{36}	14.7	X	144.20009	73.39787	38.18813	14.94667	0.2504331	0.17429950	3.1739881	21	6 16.9	20.3
140375 2001 TN_{36}	14.5	X	209.68006	67.49694	17.64195	9.93224	0.0699020	0.18177846	3.0863210	21	7 17.8	19.3
140376 2001 TE_{37}	14.7	X	300.84551	358.08117	37.06529	13.02785	0.1217330	0.18818300	3.0158921	21	9 4.1	18.7
140377 2001 TN_{37}	14.7	X	259.22672	68.72387	12.76207	9.57034	0.0593392	0.18743988	3.0238579	21	9 11.7	19.0
140378 2001 TQ_{39}	14.4	X	138.63477	115.18173	39.10081	17.25245	0.1693203	0.17790060	3.1310099	21	8 6.0	19.8
140379 2001 TD_{42}	14.3	X	135.49830	175.28843	276.50470	21.41141	0.0952963	0.17014908	3.2253956	21	5 1.6	19.5
140380 2001 TF_{45}	15.6	X	348.46445	323.13552	17.62927	3.19773	0.0216186	0.18962214	3.0006133	21	9 4.3	19.5
140381 2001 TR_{46}	15.3	X	257.10538	61.03322	70.72229	27.23880	0.0260482	0.39068721	1.8531757	21	12 23.9	17.0
140382 2001 TV_{47}	15.2	X	285.63938	140.03564	152.22989	10.66118	0.0687715	0.17739916	3.1369072	21	4 6.5	19.7
140383 2001 TP_{48}	14.8	X	239.92624	4.16390	29.09364	12.59073	0.1527032	0.18296141	3.0730035	21	6 3.6	19.8
140384 2001 TA_{49}	16.8	X	348.65583	232.28472	11.11473	20.73572	0.0507686	0.37792164	1.8946757	21	4 1.6	18.1
140385 2001 TU_{49}	15.3	X	27.66415	255.69211	105.19111	6.83986	0.0862779	0.20192264	2.8774826	21	11 30.5	19.1
140386 2001 TG_{51}	15.2	X	40.58186	70.72313	28.68118	7.87216	0.1927676	0.21374932	2.7703388	21	1 2.4	18.0
140387 2001 TW_{51}	15.7	X	272.66275	283.13939	71.94984	6.47758	0.2255431	0.18557296	3.0441047	21	5 15.8	20.4
140388 2001 TZ_{52}	15.9	X	132.30660	140.76579	187.54055	3.75905	0.1049603	0.21234967	2.7824988	21	—	—
140389 2001 TM_{54}	15.0	X	29.39434	206.78928	219.91859	10.15458	0.0915240	0.21119756	2.7926089	21	—	—
140390 2001 TB_{55}	15.1	X	302.48034	98.07555	226.52716	9.33471	0.0665693	0.18729456	3.0254219	21	6 5.4	19.1
140391 2001 TQ_{55}	15.1	X	301.90652	45.39256	33.30670	0.32284	0.1232409	0.19924127	2.9032417	21	10 27.7	18.5
140392 2001 TS_{57}	15.8	X	146.84827	311.42283	347.50543	3.28385	0.0811160	0.21024955	2.8009972	21	—	—
140393 2001 TV_{57}	15.1	X	189.08220	186.12056	219.22693	4.02396	0.1526021	0.17896177	3.1186205	21	5 4.6	20.2
140394 2001 TW_{58}	15.6	X	290.34407	348.52453	330.10667	1.57864	0.1454537	0.18376350	3.0640549	21	4 30.1	19.8
140395 2001 TJ_{63}	15.2	X	26.01310	345.98358	48.84894	16.14307	0.1351422	0.20348113	2.8627711	21	—	—
140396 2001 TG_{64}	15.2	X	146.45125	237.77312	227.53596	4.51347	0.1122237	0.17844121	3.1246829	21	6 4.5	20.1
140397 2001 TK_{65}	15.4	X	233.40002	239.40893	160.61557	1.76033	0.1610104	0.18318408	3.0705127	21	6 7.3	20.2
140398 2001 TM_{67}	14.6	X	127.52050	164.56831	36.36736	9.55739	0.0401481	0.18959416	3.0009085	21	9 10.5	19.0
140399 2001 TN_{67}	14.7	X	167.67409	22.33975	49.65046	1.69875	0.1754353	0.17680676	3.1439102	21	5 18.0	19.8
140400 2001 TR_{68}	16.2	X	140.96181	357.54751	350.98835	1.42313	0.1029218	0.21601824	2.7509061	21	1 1.5	20.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
140401 2001 TJ_{70}	14.9	X	239.36716	145.64932	10.11057	6.24565	0.1726661	0.19871125	2.9084019	21	11 1.4	19.3
140402 2001 TB_{71}	15.1	X	253.69963	189.22127	177.11078	6.80824	0.1809505	0.18312355	3.0711893	21	5 16.3	19.9
140403 2001 TN_{71}	16.0	X	180.20747	326.52316	130.07514	2.42720	0.1057721	0.23269354	2.6178605	21	6 26.9	19.8
140404 2001 TH_{73}	16.9	X	223.27138	147.54227	220.50672	1.75052	0.1250868	0.27833129	2.3232433	21	4 13.9	20.4
140405 2001 TK_{73}	15.6	X	26.57517	187.65738	234.06983	1.15311	0.0567722	0.20676739	2.8323572	21	—	—
140406 2001 TV_{73}	15.1	X	287.01400	267.53308	112.02092	0.78839	0.2216411	0.18841333	3.0134336	21	7 2.5	19.3
140407 2001 TQ_{74}	15.2	X	202.44260	311.67229	161.97906	3.19472	0.1418299	0.18533638	3.0466946	21	8 7.8	20.0
140408 2001 TC_{76}	15.0	X	245.09822	22.03233	52.50717	12.50137	0.1286426	0.18702550	3.0283228	21	8 9.5	19.7
140409 2001 TO_{77}	14.9	X	318.05114	265.07073	111.67616	3.70958	0.1709808	0.19123962	2.9836701	21	8 26.5	18.2
140410 2001 TJ_{81}	15.8	X	336.04288	102.11030	201.94124	20.65577	0.2566939	0.19124616	2.9836021	21	6 5.7	19.2
140411 2001 TT_{82}	15.8	X	149.90080	147.17235	327.95635	3.23125	0.1652249	0.23196763	2.6233191	21	6 22.4	20.0
140412 2001 TH_{83}	15.9	X	73.84282	107.67940	283.54134	4.88410	0.0569887	0.21181931	2.7871415	21	—	—
140413 2001 TM_{84}	16.1	X	346.90487	110.15886	24.12269	2.44621	0.0213319	0.21319395	2.7751479	21	—	—
140414 2001 TO_{85}	15.1	X	215.45657	208.69998	234.39236	9.11355	0.0778422	0.18741784	3.0240951	21	7 16.6	19.7
140415 2001 TP_{85}	14.9	X	155.92683	140.71909	321.42738	5.50953	0.1595745	0.18081426	3.0972833	21	6 12.1	20.0
140416 2001 TF_{87}	14.4	X	313.91874	263.51122	9.69768	21.77903	0.0723510	0.18011873	3.1052516	21	4 11.0	18.7
140417 2001 TT_{87}	15.0	X	263.30084	68.56679	272.07015	6.07207	0.0933803	0.18239502	3.0793619	21	5 1.5	19.6
140418 2001 TS_{89}	15.5	X	93.57570	314.90357	359.40776	10.09180	0.1323971	0.20566991	2.8424241	21	12 26.7	20.0
140419 2001 TY_{89}	15.8	X	206.99615	58.25755	236.51638	7.54782	0.1259624	0.21862668	2.7289816	21	1 4.4	20.2
140420 2001 TM_{90}	15.0	X	164.97365	204.68633	248.38141	8.35280	0.0683608	0.18159341	3.0884175	21	6 6.1	19.5
140421 2001 TJ_{92}	15.5	X	278.72801	244.30665	214.15295	11.20251	0.1427650	0.19699738	2.9252462	21	10 14.3	19.2
140422 2001 TO_{92}	15.8	X	215.64460	1.68159	284.99019	2.06768	0.0820079	0.21775390	2.7362688	21	1 3.7	20.0
140423 2001 TM_{93}	14.7	X	338.48244	52.73286	240.28219	8.30561	0.0490045	0.18502218	3.0501429	21	6 16.7	18.7
140424 2001 TO_{93}	15.4	X	71.22222	345.32940	331.75273	5.21994	0.0712215	0.20164189	2.8801529	21	11 26.8	19.5
140425 2001 TS_{93}	15.5	X	259.53283	157.54115	265.27213	3.79464	0.1555143	0.18924863	3.0045600	21	8 2.0	20.0
140426 2001 TU_{93}	15.9	X	107.64792	20.21880	304.07502	3.26957	0.1535534	0.20859066	2.8158281	21	—	—
140427 2001 TE_{94}	15.0	X	260.21091	6.95972	212.45062	13.27253	0.1378389	0.21405672	2.7676859	21	—	—
140428 2001 TT_{94}	14.8	X	20.23040	32.86938	237.41293	8.58012	0.0612650	0.18741165	3.0241616	21	7 16.6	18.8
140429 2001 TQ_{96}	15.1	X	289.00623	158.98665	227.00010	9.58820	0.0550397	0.18906058	3.0065520	21	8 4.5	19.3
140430 2001 TS_{101}	16.0	X	53.24349	309.30186	30.84788	2.18503	0.1201417	0.20273513	2.8697895	21	12 11.5	20.1
140431 2001 TU_{101}	15.0	X	269.48323	123.59164	204.18545	9.27576	0.0925118	0.18101954	3.0949413	21	4 25.2	19.5
140432 2001 TC_{102}	15.2	X	167.82540	21.62749	260.78815	7.95173	0.1193330	0.21099778	2.7943714	21	—	—
140433 2001 TK_{102}	14.6	X	186.91994	318.20213	130.51218	17.03185	0.1429606	0.18401681	3.0612423	21	6 25.2	19.7
140434 2001 TB_{103}	15.0	X	245.29973	36.42305	295.38057	12.46549	0.1365382	0.17726100	3.1385370	21	3 23.7	20.2
140435 2001 TX_{103}	14.9	X	309.95115	58.45961	257.51282	4.99748	0.0744794	0.18413035	3.0599838	21	6 3.3	19.0
140436 2001 TW_{104}	15.0	X	27.58056	274.40347	33.11138	10.99880	0.1001201	0.19285024	2.9670345	21	9 26.0	18.8
140437 2001 TC_{106}	14.6	X	127.34373	353.88334	57.38529	10.91263	0.2054940	0.21722726	2.7406895	21	3 22.1	18.9
140438 2001 TJ_{108}	15.2	X	262.77579	161.19181	333.09991	7.82608	0.1459228	0.20037594	2.8922711	21	11 5.0	19.2
140439 2001 TY_{109}	15.6	X	172.47048	174.96506	293.29645	2.87227	0.1360892	0.23243614	2.6197928	21	7 4.5	19.8
140440 2001 TK_{112}	15.1	X	36.10700	175.59778	234.42749	12.59477	0.1772855	0.20600759	2.8393171	21	—	—
140441 2001 TH_{113}	14.9	X	150.54665	36.80857	23.84866	18.22458	0.1105448	0.17308527	3.1888149	21	4 14.9	19.9
140442 2001 TF_{114}	14.6	X	260.37091	103.96779	260.01861	10.33968	0.0894304	0.18152473	3.0891964	21	5 29.5	19.0
140443 2001 TR_{114}	15.1	X	279.66577	346.05610	19.52861	5.14530	0.1269382	0.23488188	2.6015752	21	6 17.7	18.5
140444 2001 TR_{115}	14.7	X	292.72446	138.62117	248.61724	12.78698	0.0632007	0.18746355	3.0236034	21	8 8.2	19.0
140445 2001 TB_{116}	14.7	X	281.09848	5.48014	37.47472	13.08852	0.2105522	0.18789675	3.0189543	21	7 31.6	19.1
140446 2001 TU_{118}	14.4	X	155.10014	112.23759	313.83671	15.48965	0.1530838	0.17607154	3.1526561	21	4 21.5	19.8
140447 2001 TX_{118}	15.2	X	201.32893	90.63010	316.99934	15.08865	0.1609861	0.18054422	3.1003710	21	5 13.5	20.6
140448 2001 TQ_{120}	15.4	X	200.25748	115.80804	274.15817	10.11591	0.1955738	0.22813548	2.6526146	21	4 18.8	20.0
140449 2001 TS_{120}	15.5	X	302.09113	106.26346	326.08192	11.69254	0.1640360	0.19596931	2.9354679	21	10 7.9	19.2
140450 2001 TE_{121}	14.9	X	298.40902	26.68530	292.94135	10.19477	0.1777285	0.18455388	3.0553005	21	5 4.1	19.3
140451 2001 TQ_{121}	15.0	X	211.39569	89.63313	303.86241	9.21991	0.1262780	0.17952115	3.1121389	21	5 8.3	20.1
140452 2001 TX_{122}	15.1	X	335.07460	48.14986	344.11285	11.49514	0.0648366	0.19596844	2.9354767	21	10 16.8	19.0
140453 2001 TN_{123}	15.1	X	7.68985	346.26176	319.39016	11.26700	0.1037623	0.19265488	2.9690399	21	8 18.1	18.6
140454 2001 TB_{124}	15.0	X	206.94899	112.27531	308.14097	9.27736	0.1355747	0.18343656	3.0676946	21	6 7.9	20.0
140455 2001 TY_{124}	14.6	X	264.44695	156.17634	266.95015	8.90288	0.0718149	0.19082777	2.9879616	21	8 17.6	18.9
140456 2001 TS_{125}	15.4	X	277.35278	100.25456	281.09894	8.55030	0.0761466	0.18783855	3.0195779	21	7 13.8	19.6
140457 2001 TS_{126}	15.9	X	5.02161	110.66755	245.30972	0.99338	0.1036387	0.19649404	2.9302395	21	10 21.5	19.5
140458 2001 TF_{127}	15.2	X	300.47733	86.65727	191.82820	10.19987	0.0447977	0.17851896	3.1237755	21	4 8.6	19.4
140459 2001 TO_{127}	16.4	X	293.52496	298.95863	19.05316	1.45116	0.0862558	0.23328223	2.6134545	21	5 8.8	19.7
140460 2001 TR_{127}	15.6	X	261.36852	200.55474	203.17149	9.93105	0.1098545	0.18885150	3.0087707	21	7 15.8	20.1
140461 2001 TS_{127}	17.0	X	316.25906	283.01516	2.09198	19.69717	0.0575187	0.38011455	1.8873816	21	4 7.4	18.7
140462 2001 TF_{128}	15.0	X	202.29773	282.19573	152.65270	7.58369	0.0737388	0.18486243	3.0518999	21	6 24.1	19.7
140463 2001 TX_{128}	16.0	X	231.46306	62.84585	201.97932	1.46591	0.0374654	0.21764029	2.7372209	21	—	—
140464 2001 TF_{129}	15.8	X	265.49052	62.03043	26.13884	0.69155	0.0757852	0.19326567	2.9627811	21	9 23.9	19.6
140465 2001 TF_{130}	16.7	X	339.78458	156.94245	206.47320	0.78539	0.2368795	0.19488924	2.9463035	21	9 16.3	19.2
140466 2001 TU_{130}	15.2	X	90.90338	231.88570	113.54691	7.80869	0.1255360	0.21082942	2.7958588	21	—	—
140467 2001 TN_{131}	14.9	X	293.01266	239.16494	105.08957	10.25423	0.1140602	0.18923608	3.0046929	21	6 11.7	19.0
140468 2001 TU_{132}	14.8	X	348.16172	50.60447	281.48673	9.25189	0.0879041	0.19282348	2.9673089	21	8 18.4	18.6
140469 2001 TY_{133}	14.6	X	178.11565	317.25087	76.57237	12.76616	0.0839037	0.17518759	3.1632523	21	4 15.1	19.6
140470 2001 TR_{134}	15.3	X	342.41419	324.53274	250.09742	11.22674	0.1540089	0.22689521	2.6622725	21	2 14.6	18.8
140471 2001 TZ_{134}	14.7	X	303.39098	256.30594	350.72305	25.59835	0.1830527	0.17695181	3.1421919	21	2 20.6	19.3
140472 2001 TB_{135}	15.2	X	109.81661	268.15711	296.22005	8.76793	0.0364535	0.19101032	2.9860575	21	8 17.2	19.5
140473 2001 TK_{135}	15.1	X	312.75115	209.81852	263.66175	7.38717	0.1215505	0.20490266	2.8495152	21	12 31.6	18.5
140474 2001 TM_{135}	14.7	X	62.44274	316.63586	244.61103	9.76032	0.1216797	0.18411059	3.0602028	21	6 26.2	18.7
140475 2001 TF_{137}	14.8	X	325.40410	209.05211	99.17611	11.69936	0.1056770	0.18757414	3.0224148	21	6 12.7	18.7
140476 2001 TL_{137}	14.9	X	15.74165	55.95431	74.14057	14.02926	0.1049387	0.21616267	2.7496806	21	—	—
140477 2001 TM_{137}	14.8	X	260.69032	265.22983	84.12345	12.03531	0.1492916	0.18380885	3.0635509	21	5 7.9	19.5
140478 2001 TN_{138}	15.4	X	232.12383	12.51274	69.81645	5.91249	0.2497109	0.23988135	2.5653014	21	7 22.4	19.6
140479 2001 TQ_{138}	15.7	X	123.11897	195.94394	131.00215	7.10878	0.1094170	0.21368246	2.7709167	21	—	—
140480 2001 TV_{138}	16.1	X	120.10788	254.60842	111.65132	5.99727	0.1310128	0.21728160	2.7402325	21	1 1.9	19.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
140481 2001 TQ_{140}	15.0	X	11.87483	244.24262	94.69234	6.56136	0.0681336	0.19866162	2.9088862	21	10 10.7	18.8
140482 2001 TK_{141}	15.7	X	22.87118	151.54323	80.00293	5.18240	0.0636144	0.23376418	2.6098611	21	5 29.5	18.7
140483 2001 TM_{141}	15.7	X	95.32623	54.69938	60.41559	10.22650	0.2709725	0.22269887	2.6956119	21	5 10.1	19.4
140484 2001 TH_{142}	14.9	X	135.56703	223.21213	43.01587	15.90947	0.1152307	0.20566802	2.8424415	21	12 6.2	19.5
140485 2001 TJ_{142}	15.6	X	136.57275	97.84177	45.49449	7.97620	0.1405519	0.23454700	2.6040508	21	7 15.1	19.7
140486 2001 TZ_{142}	15.9	X	193.44450	44.76826	91.67569	4.61639	0.0857376	0.24175687	2.5520167	21	9 4.9	19.6
140487 2001 TP_{143}	15.6	X	281.22741	181.11783	48.78128	10.24830	0.0745332	0.21921861	2.7240669	21	1 5.3	19.7
140488 2001 TS_{143}	15.7	X	153.23999	241.33731	46.25661	13.08833	0.1094006	0.21067116	2.7972589	21	—	—
140489 2001 TU_{145}	15.8	X	248.24343	142.14773	122.28399	5.97343	0.1241958	0.22007254	2.7170157	21	1 7.6	19.9
140490 2001 TJ_{148}	15.7	X	84.68487	281.33943	117.86768	5.73493	0.0740507	0.21335580	2.7737442	21	—	—
140491 2001 TA_{149}	15.8	X	196.06769	326.76442	150.84641	6.78331	0.0719901	0.23851643	2.5750788	21	8 11.9	19.6
140492 2001 TH_{151}	15.7	X	294.79337	306.58477	132.86086	5.54585	0.0483843	0.24750264	2.5123655	21	11 5.8	18.8
140493 2001 TL_{151}	14.8	X	2.55064	132.84590	159.23248	10.36994	0.0762655	0.18799093	3.0179459	21	7 20.3	18.7
140494 2001 TR_{151}	15.0	X	266.79884	278.12180	64.75195	9.80862	0.1472760	0.18273042	3.0755926	21	5 5.1	19.7
140495 2001 TK_{153}	15.7	X	265.52599	176.48532	98.03974	4.54763	0.1533070	0.22401905	2.6850111	21	2 3.6	19.9
140496 2001 TT_{153}	15.0	X	230.28564	82.56136	293.34488	8.76025	0.0657038	0.18167730	3.0874667	21	5 10.3	19.7
140497 2001 TX_{153}	14.7	X	165.40154	90.98464	295.01412	8.90468	0.0821098	0.17383659	3.1796203	21	3 13.5	19.7
140498 2001 TO_{155}	15.9	X	301.48768	329.79537	209.78675	2.46479	0.0759086	0.21495999	2.7599272	21	—	—
140499 2001 TW_{156}	16.3	X	144.87114	136.49501	189.16322	4.04296	0.0716949	0.21303770	2.7765047	21	—	—
140500 2001 TF_{158}	15.0	X	221.92041	273.85700	67.96622	9.09664	0.1267214	0.17495933	3.1660029	21	3 25.4	20.1
140501 2001 TN_{158}	16.2	X	139.11579	298.26503	81.33908	6.53119	0.0851675	0.22085980	2.7105552	21	2 5.0	20.0
140502 2001 TK_{160}	15.0	X	100.56230	314.45529	224.41599	12.32509	0.0069587	0.18317583	3.0706049	21	6 29.9	19.5
140503 2001 TN_{160}	15.8	X	4.99723	70.90839	273.60459	1.12487	0.1018011	0.19433302	2.9519227	21	10 5.5	19.3
140504 2001 TO_{161}	16.3	X	86.14710	153.25972	241.39238	3.03474	0.0820898	0.21436678	2.7650165	21	—	—
140505 2001 TS_{161}	16.5	X	128.43213	100.81835	206.32108	7.48345	0.2821143	0.21235925	2.7824152	21	—	—
140506 2001 TJ_{163}	15.8	X	202.84630	249.04295	3.43461	8.87348	0.2567748	0.21457200	2.7632532	21	—	—
140507 2001 TH_{164}	15.2	X	273.68124	179.66169	207.37596	3.16198	0.1054208	0.18740469	3.0242365	21	7 11.9	19.5
140508 2001 TN_{165}	15.0	X	331.92931	144.62219	221.46286	10.81678	0.1207774	0.19149420	2.9810251	21	9 4.7	18.7
140509 2001 TR_{165}	15.0	X	194.44574	120.23754	283.94657	4.21162	0.1742481	0.17811917	3.1284480	21	5 6.6	20.2
140510 2001 TT_{165}	14.6	X	96.24245	265.95573	233.50466	14.81085	0.0576114	0.17670113	3.1451631	21	5 13.9	19.0
140511 2001 TF_{166}	14.7	X	167.14161	199.70414	253.48014	16.71337	0.1421206	0.17904963	3.1176003	21	6 10.9	19.7
140512 2001 TN_{166}	14.7	X	317.82327	22.00753	333.36278	9.60265	0.0848417	0.18868301	3.0105616	21	8 7.0	18.5
140513 2001 TY_{166}	15.2	X	280.66404	81.36976	321.70012	8.93558	0.1467603	0.18861121	3.0113256	21	8 6.1	19.1
140514 2001 TF_{167}	15.4	X	190.85774	86.58693	353.70963	9.82673	0.1425196	0.18049419	3.1009439	21	6 17.0	20.5
140515 2001 TA_{169}	14.8	X	224.27790	71.63347	327.77985	8.42312	0.0934542	0.17992033	3.1075341	21	6 1.0	19.7
140516 2001 TU_{169}	15.2	X	249.52691	164.56091	280.79154	10.18584	0.0472407	0.18874157	3.0099388	21	8 29.6	19.6
140517 2001 TV_{169}	14.7	X	242.29391	71.72150	299.98303	10.08775	0.1093620	0.17971584	3.1098908	21	5 14.4	19.6
140518 2001 TY_{169}	14.9	X	64.66402	193.14311	295.11978	7.53845	0.1806801	0.21765270	2.7371168	21	3 24.6	18.2
140519 2001 TZ_{169}	15.0	X	170.08886	138.05235	314.20503	7.04853	0.2424844	0.17723690	3.1388215	21	6 14.9	20.6
140520 2001 TN_{170}	15.0	X	0.72551	342.10205	329.77785	8.97892	0.0538256	0.19074697	2.9888053	21	8 14.8	18.7
140521 2001 TS_{170}	14.7	X	83.96014	239.49813	344.63529	10.02906	0.0688136	0.18857897	3.0116688	21	8 18.9	18.9
140522 2001 TH_{171}	14.7	X	303.28696	184.66459	145.94638	12.74583	0.1406888	0.18551217	3.0447697	21	6 5.7	18.9
140523 2001 TK_{171}	14.8	X	230.48018	274.47069	104.40103	12.71487	0.1470267	0.18077647	3.0977149	21	5 14.6	19.9
140524 2001 TT_{171}	15.7	X	332.50129	37.48082	264.53046	10.84141	0.1797652	0.23774025	2.5806805	21	6 3.2	18.4
140525 2001 TF_{172}	15.0	X	79.09461	270.52281	50.86316	13.77661	0.0781050	0.20418706	2.8561690	21	12 12.0	19.2
140526 2001 TE_{173}	15.3	X	272.25593	231.44683	175.05567	0.84628	0.1487256	0.18786118	3.0193353	21	7 29.3	19.5
140527 2001 TN_{174}	15.6	X	323.52099	339.60742	72.02520	6.05669	0.1011988	0.19594510	2.9357097	21	10 29.9	19.1
140528 2001 TY_{174}	15.3	X	251.11601	190.08586	33.44469	7.49759	0.1022686	0.21434533	2.7652009	21	—	—
140529 2001 TG_{176}	15.8	X	258.00954	96.53931	222.00976	2.39619	0.1383905	0.17983184	3.1085533	21	3 26.0	20.7
140530 2001 TY_{176}	15.5	X	142.03730	120.71626	5.38214	10.12271	0.0636398	0.18357248	3.0661802	21	6 21.5	20.2
140531 2001 TC_{180}	15.3	X	297.65814	86.54602	232.95759	10.42018	0.1097400	0.18366023	3.0652035	21	5 16.8	19.2
140532 2001 TJ_{180}	15.3	X	188.73195	59.55046	246.87814	9.01734	0.0815377	0.21589927	2.7519166	21	—	—
140533 2001 TK_{180}	15.5	X	18.99906	67.22369	339.55555	6.71173	0.0969859	0.20454921	2.8527969	21	—	—
140534 2001 TT_{180}	15.2	X	93.13472	339.95874	248.70597	4.55454	0.0482652	0.19039533	2.9924841	21	8 29.2	19.5
140535 2001 TN_{182}	15.2	X	284.09224	96.64565	313.18674	5.44334	0.1059166	0.19044064	2.9920095	21	8 24.4	19.0
140536 2001 TO_{182}	15.1	X	265.53155	64.33138	0.81354	10.33175	0.1644231	0.18900205	3.0071728	21	8 15.5	19.4
140537 2001 TQ_{182}	14.8	X	356.58612	324.44735	352.68014	8.80123	0.0235012	0.18845960	3.0129404	21	8 16.8	18.8
140538 2001 TX_{182}	14.5	X	300.96960	128.90060	15.33207	15.31957	0.0838170	0.20528122	2.8460109	21	—	—
140539 2001 TJ_{184}	16.2	X	130.00265	94.11455	252.54459	5.26549	0.0572216	0.21344937	2.7729336	21	—	—
140540 2001 TU_{184}	15.4	X	39.34495	221.17113	12.86921	15.73577	0.0851901	0.18504037	3.0499430	21	7 2.8	19.7
140541 2001 TO_{185}	15.9	X	340.19317	250.47741	250.14838	3.78585	0.1032430	0.21150852	2.7898711	21	—	—
140542 2001 TP_{185}	15.7	X	322.10583	74.25445	234.77553	3.94420	0.2089233	0.18782713	3.0197003	21	5 24.1	19.3
140543 2001 TS_{186}	16.1	X	232.24302	221.55248	349.84008	3.63466	0.1321062	0.25835352	2.4415172	21	—	—
140544 2001 TH_{188}	15.8	X	265.43060	64.87491	13.97333	4.65004	0.0800010	0.24137153	2.5547320	21	9 16.7	18.9
140545 2001 TA_{194}	15.6	X	152.75437	160.03601	20.17082	10.13060	0.0347947	0.19131137	2.9829240	21	9 12.9	20.0
140546 2001 TZ_{194}	14.9	X	192.71661	267.44334	155.45767	17.79798	0.2407877	0.18112658	3.0937218	21	5 31.3	20.6
140547 2001 TA_{195}	14.3	X	12.31579	213.19380	90.95122	11.84646	0.0861268	0.19322104	2.9632373	21	8 28.0	18.2
140548 2001 TB_{197}	15.6	X	284.17641	246.91988	179.40385	15.28269	0.1439707	0.24211513	2.5494985	21	9 14.9	18.5
140549 2001 TU_{198}	14.9	X	211.29984	331.63117	136.67079	11.50988	0.0724470	0.19101504	2.9860082	21	8 15.9	19.2
140550 2001 TY_{198}	14.9	X	173.27862	41.09832	56.22367	11.13155	0.0221210	0.18589112	3.0406303	21	6 18.7	19.3
140551 2001 TE_{200}	15.8	X	149.00685	239.92090	118.41339	6.93859	0.0540904	0.21845397	2.7304197	21	1 15.9	19.7
140552 2001 TW_{201}	15.2	X	310.67324	267.50297	89.38321	9.65465	0.1430741	0.19084341	2.9877983	21	7 20.5	18.9
140553 2001 TQ_{202}	14.7	X	0.58619	145.18460	135.93044	12.29791	0.0714221	0.18716677	3.0267988	21	7 3.5	18.7
140554 2001 TK_{203}	14.6	X	138.08583	47.51762	66.81079	17.90785	0.0880551	0.18023320	3.1039366	21	6 3.8	19.3
140555 2001 TV_{203}	15.9	X	260.06444	102.67805	152.93401	7.83605	0.0338529	0.22097694	2.7095972	21	1 14.9	19.8
140556 2001 TY_{203}	15.5	X	195.79693	243.09851	27.28016	13.43152	0.1076546	0.21530015	2.7570194	21	—	—
140557 2001 TE_{204}	15.6	X	40.65373	359.50043	94.53000	6.38874	0.0132784	0.21703955	2.7422695	21	—	—
140558 2001 TO_{204}	15.2	X	279.60144	306.59470	45.46524	10.71992	0.0832971	0.18655663	3.0333947	21	6 6.6	19.4
140559 2001 TQ_{204}	14.9	X	253.80555	65.39029	42.53964	11.86385	0.1844844	0.19494533	2.9457383	21	9 24.4	19.3
140560 2001 TW_{204}	15.1	X	237.36810	266.94551	117.28130	10.26607	0.0919092	0.18431674	3.0579205	21	5 30.7	19.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
140561 2001 TL_{207}	16.2	X	332.39823	30.92436	48.23500	0.43747	0.0102004	0.20455117	2.8527786	21	12 17.6	20.1
140562 2001 TS_{207}	15.9	X	349.45715	269.65726	202.35471	2.22096	0.1448984	0.20904078	2.8117845	21	—	—
140563 2001 TE_{209}	14.3	X	69.26956	227.26994	257.18308	12.52321	0.0852052	0.17337404	3.1852731	21	3 18.7	18.8
140564 2001 TY_{209}	15.5	X	112.31615	239.91380	207.03696	21.58128	0.0565967	0.22715002	2.6602811	21	3 19.6	19.3
140565 2001 TO_{210}	15.5	X	202.78703	298.21122	308.68426	11.23258	0.1121438	0.21334051	2.7738768	21	—	—
140566 2001 TR_{211}	15.0	X	195.63574	131.10865	308.82040	10.12396	0.0393795	0.18612864	3.0380429	21	6 24.8	19.6
140567 2001 TN_{212}	14.8	X	38.75068	339.04482	281.49838	8.89715	0.0586896	0.19015133	2.9950435	21	7 31.0	18.8
140568 2001 TZ_{212}	14.6	X	161.74766	151.33309	259.66794	9.55185	0.0513631	0.17500013	3.1655108	21	4 7.1	19.4
140569 2001 TF_{213}	15.1	X	258.64788	91.14821	296.76277	7.96346	0.0546150	0.18645231	3.0345261	21	7 2.3	19.4
140570 2001 TY_{213}	15.3	X	90.91862	282.51916	269.44671	1.29663	0.0274278	0.18441080	3.0568806	21	7 8.9	19.5
140571 2001 TL_{214}	15.1	X	331.43891	118.59818	346.02718	14.72243	0.1005951	0.20490441	2.8494991	21	—	—
140572 2001 TE_{215}	15.5	X	234.19360	42.71615	249.21115	13.32327	0.1875748	0.22168357	2.7038362	21	1 21.2	20.2
140573 2001 TH_{215}	14.9	X	304.47738	358.73944	317.88591	8.16478	0.1652561	0.18462049	3.0545655	21	5 10.9	19.1
140574 2001 TA_{216}	14.7	X	213.75309	42.33488	344.09597	12.10323	0.1211481	0.17870611	3.1215942	21	4 30.2	19.8
140575 2001 TK_{217}	15.3	X	8.57836	157.82537	246.90109	5.13354	0.0642417	0.20684737	2.8316270	21	12 26.6	18.9
140576 2001 TL_{217}	15.0	X	269.63406	157.76373	230.01616	10.12126	0.0445011	0.19028207	2.9936715	21	7 14.9	19.4
140577 2001 TF_{219}	14.8	X	174.52556	334.36803	87.77644	10.24580	0.0974983	0.17848897	3.1241254	21	5 12.7	19.7
140578 2001 TN_{221}	14.8	X	229.54328	332.82517	356.52229	9.38998	0.0257659	0.17391443	3.1786714	21	3 19.2	19.3
140579 2001 TM_{222}	15.5	X	277.45669	259.33548	95.97532	9.71705	0.1855336	0.23829217	2.5766941	21	5 25.1	19.2
140580 2001 TW_{223}	15.0	X	353.94086	318.82899	223.23408	15.74447	0.1635302	0.21906824	2.7253133	21	1 21.6	18.6
140581 2001 TX_{223}	15.8	X	105.32829	83.80230	226.11482	5.54868	0.0501623	0.20456831	2.8526193	21	12 25.9	19.9
140582 2001 TW_{225}	14.7	X	184.57367	313.41299	73.29668	28.18253	0.1956399	0.17514802	3.1637286	21	4 23.3	20.4
140583 2001 TZ_{225}	14.6	X	274.33438	311.30628	93.32495	11.48802	0.1020642	0.19206401	2.9751261	21	8 8.2	18.8
140584 2001 TU_{226}	15.4	X	239.61929	343.07454	119.36251	11.24511	0.1422941	0.24199803	2.5503209	21	9 8.4	19.1
140585 2001 TR_{227}	16.2	X	148.36505	357.97209	71.32681	6.73581	0.2300451	0.27622331	2.3350481	21	4 27.6	19.8
140586 2001 TP_{228}	16.3	X	187.28414	89.89300	206.70045	5.34056	0.0756373	0.21579167	2.7528313	21	—	—
140587 2001 TE_{229}	14.5	X	317.44829	85.13718	318.62008	13.42957	0.1063523	0.19515758	2.9436021	21	9 30.0	18.4
140588 2001 TU_{230}	14.9	X	90.41026	350.60956	63.15327	10.33316	0.1652812	0.21671393	2.7450157	21	1 30.2	18.4
140589 2001 TY_{230}	14.7	X	338.21538	261.06640	72.69547	10.29303	0.0905304	0.19238805	2.9717846	21	8 11.8	18.5
140590 2001 TR_{231}	16.6	X	123.17370	229.88996	119.92961	0.60254	0.0816806	0.21342043	2.7731842	21	—	—
140591 2001 TL_{232}	14.6	X	296.97773	288.00998	103.50782	11.51924	0.0572797	0.19219720	2.9737515	21	8 30.4	18.7
140592 2001 TZ_{233}	15.7	X	347.93131	126.58619	343.43025	8.66933	0.1191177	0.20946329	2.8080022	21	—	—
140593 2001 TA_{235}	14.8	X	301.81524	184.16801	337.25002	9.52505	0.2159644	0.20956749	2.8070713	21	—	—
140594 2001 TC_{236}	15.4	X	216.80522	276.54205	139.86293	9.09751	0.1078506	0.18241316	3.0791577	21	6 15.4	20.2
140595 2001 TE_{236}	14.9	X	231.70818	218.94032	167.00634	11.01919	0.1749117	0.18150636	3.0894048	21	5 20.7	20.0
140596 2001 TO_{236}	14.2	X	157.18321	349.48975	89.98171	19.36071	0.1405382	0.17875036	3.1210791	21	5 20.8	19.3
140597 2001 TZ_{237}	15.1	X	192.87091	123.79916	318.80051	13.29625	0.1547801	0.23502953	2.6004855	21	6 22.2	19.5
140598 2001 TD_{238}	15.1	X	185.30844	349.45760	76.48995	11.29991	0.1890289	0.23236438	2.6203321	21	5 25.0	19.5
140599 2001 TX_{238}	15.0	X	321.57505	206.26931	118.24728	10.48235	0.0421825	0.18888556	3.0084090	21	7 5.0	18.9
140600 2001 TC_{239}	14.7	X	110.72380	89.83243	62.30260	13.92287	0.1300971	0.23377405	2.6097877	21	6 24.9	18.6
140601 2001 TP_{239}	14.9	X	284.08657	277.29592	138.56241	10.31800	0.0682690	0.19270439	2.9685313	21	9 10.0	18.9
140602 Berlind	16.2	X	278.57200	342.23486	135.95344	2.81467	0.0150587	0.20341081	2.8634308	21	11 27.9	20.1
140603 2001 UQ	15.6	X	194.27457	208.71821	70.15859	5.47558	0.0326303	0.21245434	2.7815849	21	—	—
140604 2001 UA_3	14.9	X	215.17904	152.60747	178.60943	21.61288	0.0709228	0.17440500	3.1727079	21	3 2.3	19.8
140605 2001 UG_3	15.2	X	261.19971	188.50169	47.47255	14.28069	0.1367448	0.21594333	2.7515423	21	—	—
140606 2001 UL_3	15.3	X	150.87743	226.46560	71.31215	12.67377	0.1301025	0.21085393	2.7956421	21	—	—
140607 2001 UC_4	15.2	X	203.08427	206.59555	207.49827	2.29714	0.1200321	0.17914321	3.1165145	21	5 28.8	20.0
140608 2001 UD_4	15.9	X	254.85774	216.61691	51.40657	6.93062	0.1175889	0.26752002	2.3854219	21	1 11.7	19.5
140609 2001 UE_4	14.9	X	178.91684	46.21390	64.34161	2.49925	0.1173274	0.18154359	3.0889824	21	7 13.7	19.8
140610 2001 UG_5	15.2	X	143.58522	211.29588	227.55589	24.73615	0.2268752	0.27401154	2.3475966	21	5 3.2	18.9
140611 2001 UQ_6	15.0	X	201.99453	134.27312	216.89419	9.30906	0.1149190	0.17182598	3.2043762	21	3 11.1	20.2
140612 2001 UU_6	14.8	X	203.93171	223.28654	212.61734	2.34658	0.0885883	0.18197662	3.0840802	21	6 26.3	19.4
140613 2001 UX_6	15.5	X	280.80780	250.63711	141.81907	1.42095	0.1927361	0.18783080	3.0196609	21	7 15.5	19.5
140614 2001 UZ_6	14.9	X	222.00221	15.37621	45.35949	11.54259	0.2488016	0.18235059	3.0798620	21	6 15.3	20.2
140615 2001 UA_7	15.4	X	18.80609	59.45712	51.10349	6.37978	0.1574267	0.20982612	2.8047641	21	—	—
140616 2001 UC_7	14.8	X	262.95805	185.07370	221.63265	7.01206	0.0861029	0.18628148	3.0363810	21	7 24.9	19.3
140617 2001 UQ_7	15.0	X	84.66042	307.24815	267.06535	5.05096	0.0683173	0.18945892	3.0023363	21	8 3.7	19.3
140618 2001 UC_9	15.1	X	44.36208	239.73631	23.99092	12.73581	0.0894222	0.19012310	2.9953400	21	8 24.6	19.2
140619 2001 UG_9	15.5	X	278.74087	290.37940	49.56952	9.22358	0.2047930	0.18443706	3.0565904	21	5 5.9	20.1
140620 Raoulwallenberg	15.4	X	121.93466	285.47150	97.76421	7.25362	0.0679925	0.21233648	2.7826140	21	1 17.8	19.1
140621 2001 UQ_{10}	14.6	X	223.31651	271.51899	93.25962	6.80699	0.1847214	0.17610020	3.1523141	21	4 18.4	19.8
140622 2001 UO_{12}	14.5	X	164.43213	194.77502	220.04912	16.93713	0.1360747	0.17346332	3.1841800	21	4 22.7	19.6
140623 2001 UR_{12}	15.1	X	87.10356	352.19925	78.50136	7.01883	0.0577941	0.21469815	2.7621707	21	1 31.6	18.7
140624 2001 UY_{12}	14.5	X	151.22739	229.75627	198.70574	3.63302	0.1255900	0.17307702	3.1889162	21	4 26.7	19.3
140625 2001 UZ_{12}	15.1	X	263.62538	20.37168	79.79677	3.76500	0.2182202	0.19068444	2.9894586	21	9 17.7	19.3
140626 2001 UC_{13}	14.8	X	245.83887	214.19300	214.82323	10.17469	0.0900358	0.18540160	3.0459801	21	7 30.9	19.5
140627 2001 UR_{13}	14.9	X	267.26903	190.42528	177.24454	5.22793	0.1983965	0.18218956	3.0816766	21	5 29.4	19.6
140628 Klaipeda	16.4	X	173.61348	45.31706	261.48864	5.79728	0.1441298	0.26524944	2.3990156	21	—	—
140629 2001 UU_{14}	15.2	X	319.57536	230.51699	134.78601	2.98706	0.1784277	0.18971590	2.9996245	21	8 11.0	18.6
140630 2001 UY_{14}	14.2	X	315.87951	302.10116	50.37859	10.67206	0.1305617	0.18743895	3.0238680	21	7 26.7	18.1
140631 2001 UV_{15}	15.1	X	333.02640	53.57629	250.81210	8.95567	0.2221783	0.18815045	3.0162398	21	6 4.9	18.4
140632 2001 UQ_{17}	15.7	X	163.32477	86.57015	115.87850	2.50515	0.0862950	0.19506580	2.9445253	21	10 20.5	20.2
140633 2001 UR_{17}	14.4	X	344.57553	190.21135	59.72352	27.35871	0.0158018	0.17569229	3.1571914	21	5 8.1	18.8
140634 2001 UY_{18}	15.2	X	254.78706	181.00522	158.42513	10.63907	0.0923477	0.18277356	3.0751087	21	4 25.4	19.9
140635 2001 UY_{19}	15.2	X	246.06850	295.14286	111.90760	6.58629	0.1681249	0.18684723	3.0302487	21	6 27.7	19.8
140636 2001 UB_{21}	14.8	X	169.03836	101.70766	327.04658	15.41710	0.2332520	0.17949597	3.1124299	21	5 11.9	20.5
140637 2001 UX_{21}	15.5	X	32.19364	109.59058	331.52290	12.29768	0.1850950	0.21140690	2.7907651	21	—	—
140638 2001 UB_{22}	15.1	X	82.67525	248.60572	238.41451	10.57496	0.1494501	0.22483013	2.6785497	21	4 17.0	18.5
140639 2001 UQ_{22}	14.5	X	307.48443	27.68363	265.20302	9.91677	0.0738269	0.18270054	3.0759280	21	4 28.5	18.8
140640 2001 UO_{23}	14.4	X	226.40133	213.93814	249.53963	11.95768	0.0853245	0.19068892	2.9894118	21	8 19.6	19.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
140641 2001 UP_{25}	15.4	X	296.31698	109.92614	256.43755	7.89130	0.1520409	0.18916248	3.0054722	21	7 8.0	19.3
140642 2001 US_{25}	15.2	X	68.27671	340.72194	352.47906	11.84919	0.0835927	0.20296681	2.8676052	21	12 15.3	19.5
140643 2001 UW_{25}	14.2	X	320.45681	111.15970	253.52160	9.50968	0.1263826	0.19171346	2.9787518	21	8 13.4	18.1
140644 2001 UL_{26}	14.7	X	310.06284	86.91197	261.88229	9.48951	0.0529985	0.18872910	3.0100715	21	7 17.9	18.7
140645 2001 UO_{26}	14.2	X	286.98068	308.35335	348.38202	12.06957	0.1407859	0.17854239	3.1235022	21	3 28.7	18.7
140646 2001 UX_{28}	15.6	X	19.97197	330.99487	88.45617	3.33735	0.0485156	0.20696846	2.8305224	21	—	—
140647 2001 UM_{29}	14.9	X	327.54969	145.98226	152.09133	8.95550	0.1150327	0.18495835	3.0508446	21	6 2.3	18.9
140648 2001 UN_{30}	15.4	X	23.03157	316.99294	127.43108	8.56672	0.1762360	0.20922788	2.8101080	21	—	—
140649 2001 US_{30}	15.4	X	228.30075	22.62850	33.61967	11.41908	0.0467960	0.18647799	3.0342475	21	7 2.7	20.0
140650 2001 UZ_{31}	14.9	X	16.39340	123.20472	157.44861	9.97500	0.1102907	0.18887293	3.0085431	21	7 29.0	18.6
140651 2001 UU_{32}	14.7	X	312.22235	261.84757	71.54934	11.66741	0.0667614	0.18636453	3.0354788	21	6 30.4	18.8
140652 2001 UX_{33}	15.0	X	281.14552	270.67652	99.30900	9.32841	0.2088671	0.18719925	3.0264487	21	6 15.0	19.2
140653 2001 UC_{35}	14.4	X	225.89540	1.00837	63.30682	16.25428	0.1808575	0.18372552	3.0644772	21	6 27.5	19.5
140654 2001 UQ_{36}	15.2	X	294.80805	171.76113	185.47087	13.94988	0.1732556	0.18744912	3.0237586	21	6 21.1	19.5
140655 2001 UA_{37}	14.7	X	257.85843	264.39983	108.99613	10.20975	0.1012214	0.18278139	3.0750209	21	6 7.4	19.2
140656 2001 UT_{37}	14.7	X	20.00975	48.40732	244.04206	8.71217	0.0950332	0.19267063	2.9688781	21	8 16.1	18.5
140657 2001 UC_{39}	16.1	X	310.70024	334.52866	45.01293	1.91245	0.1398142	0.19201499	2.9756325	21	8 21.3	19.7
140658 2001 UL_{39}	15.6	X	323.01763	325.71230	200.25429	11.82436	0.1537344	0.21223056	2.7835398	21	—	—
140659 2001 US_{39}	15.3	X	207.71200	49.09023	89.60770	2.05860	0.1641521	0.19114292	2.9846763	21	9 12.8	20.2
140660 2001 UH_{42}	14.7	X	334.84131	69.15225	212.63510	21.07276	0.1908533	0.18738543	3.0244437	21	5 12.6	18.2
140661 2001 UY_{42}	15.4	X	270.79381	63.49140	42.46930	2.45930	0.0202880	0.19801419	2.9152234	21	10 31.7	19.5
140662 2001 UU_{43}	16.0	X	149.47150	36.42445	107.47585	3.28344	0.0564699	0.23548266	2.5971483	21	7 23.5	19.7
140663 2001 UN_{44}	15.7	X	48.44101	58.62321	170.99204	1.93821	0.0386474	0.23411869	2.6072258	21	7 2.8	19.0
140664 2001 UG_{45}	14.8	X	184.74016	106.13533	43.01134	14.59431	0.0950408	0.18934751	3.0035140	21	9 13.3	19.7
140665 2001 UH_{45}	15.2	X	211.64490	208.59328	204.66701	10.35010	0.0557702	0.18160256	3.0883137	21	6 8.6	19.9
140666 2001 UO_{46}	15.0	X	295.94448	315.97371	110.30212	2.96359	0.1229104	0.19374553	2.9578870	21	10 2.8	18.8
140667 2001 UT_{47}	15.9	X	298.68974	232.40312	101.17029	6.26165	0.2340158	0.23583498	2.5945611	21	5 15.6	19.4
140668 2001 UG_{48}	14.9	X	300.13194	251.21715	63.94843	10.55089	0.0865890	0.18120844	3.0927900	21	5 18.6	19.0
140669 2001 UV_{48}	14.4	X	227.28049	313.57461	80.61850	11.01470	0.0979649	0.18065420	3.0991125	21	5 30.4	19.1
140670 2001 UY_{48}	14.7	X	268.47577	285.03202	89.44590	11.06216	0.1128372	0.18414507	3.0598207	21	6 18.7	19.0
140671 2001 UR_{49}	15.0	X	265.12248	268.10421	160.81986	9.33185	0.1293010	0.18834333	3.0141802	21	8 20.6	19.3
140672 2001 UH_{50}	14.7	X	310.77697	274.23622	103.56154	9.79751	0.1032112	0.18926380	3.0043995	21	8 25.6	18.5
140673 2001 UK_{50}	14.7	X	92.70420	2.59032	65.19921	25.65770	0.0822321	0.21541809	2.7560131	21	2 16.1	18.9
140674 2001 UX_{50}	15.3	X	74.26448	352.19013	103.27040	10.58974	0.1343957	0.21526685	2.7573038	21	2 25.9	18.7
140675 2001 UR_{51}	15.7	X	257.31773	218.31261	60.57011	2.88526	0.1649445	0.22230567	2.6987895	21	1 31.4	20.0
140676 2001 UY_{51}	15.5	X	233.00415	3.21255	55.40324	2.89516	0.0813671	0.18457454	3.0550725	21	7 7.4	19.9
140677 2001 UZ_{51}	15.9	X	60.36003	244.31312	132.96909	2.83095	0.0969259	0.20627080	2.8369012	21	—	—
140678 2001 UC_{52}	15.3	X	174.68082	336.98780	131.40194	1.84350	0.1449261	0.18168753	3.0873507	21	7 6.7	20.2
140679 2001 US_{52}	15.6	X	136.73310	329.31110	60.37280	5.74983	0.1222738	0.21788361	2.7351827	21	2 20.8	19.6
140680 2001 UC_{53}	15.5	X	136.91761	244.00746	77.87139	14.41269	0.2370061	0.21101721	2.7941998	21	—	—
140681 2001 UL_{53}	14.8	X	221.96714	296.60878	99.00526	11.25432	0.1765324	0.17951215	3.1122428	21	5 23.5	20.0
140682 2001 UA_{54}	15.2	X	267.50055	241.49263	159.20768	7.52740	0.1022106	0.18581378	3.0414740	21	7 21.8	19.6
140683 2001 UH_{54}	15.6	X	253.39571	127.21435	319.96163	14.23702	0.1592302	0.24200342	2.5502831	21	8 27.1	19.1
140684 2001 UW_{54}	15.7	X	61.40995	148.90806	237.37947	8.32594	0.1610819	0.21071948	2.7968312	21	—	—
140685 2001 UA_{55}	15.1	X	239.93410	151.34217	188.51400	8.87375	0.0660049	0.17783771	3.1317481	21	4 9.9	19.7
140686 2001 UU_{55}	14.9	X	51.48270	254.65863	232.09442	5.27146	0.0627142	0.17143605	3.2092333	21	2 26.8	19.2
140687 2001 UX_{55}	15.4	X	334.49110	133.13982	3.96995	11.04445	0.0997826	0.21125441	2.7921079	21	—	—
140688 2001 UE_{57}	15.7	X	245.58456	186.48589	270.31535	1.34570	0.1141974	0.19167080	2.9791938	21	9 3.8	19.9
140689 2001 UW_{58}	14.9	X	311.92745	232.57197	13.10905	4.90904	0.1319620	0.17476618	3.1683351	21	3 2.9	19.2
140690 2001 UO_{61}	16.4	X	28.72708	83.61477	319.08859	1.13774	0.0680921	0.20611938	2.8382904	21	—	—
140691 2001 UZ_{63}	15.4	X	209.94240	200.63916	221.86214	8.63831	0.0858779	0.18215509	3.0820653	21	6 16.1	20.1
140692 2001 UF_{65}	14.6	X	289.55255	104.70558	281.25265	8.12593	0.1234652	0.18713797	3.0271094	21	7 28.3	18.6
140693 2001 UN_{65}	15.2	X	268.36169	354.10058	30.39017	6.31805	0.2619058	0.18515868	3.0486437	21	6 11.2	20.0
140694 2001 UD_{66}	14.6	X	188.77863	28.25267	53.03711	14.06747	0.0514871	0.17882971	3.1201557	21	6 16.3	19.3
140695 2001 UD_{71}	16.2	X	114.16801	88.89652	211.03595	1.23800	0.0624232	0.20313993	2.8659758	21	12 24.4	20.3
140696 2001 UV_{72}	15.6	X	216.28669	98.75903	71.03310	3.21715	0.0202869	0.20070176	2.8891401	21	11 13.2	19.5
140697 2001 UG_{73}	15.2	X	305.31548	110.59185	211.74861	12.09630	0.1690262	0.18532366	3.0468340	21	5 22.8	19.2
140698 2001 UO_{73}	15.2	X	282.52568	330.44710	83.06679	3.31179	0.0805999	0.19091064	2.9870968	21	9 2.5	19.3
140699 2001 UL_{74}	14.9	X	140.43082	287.21058	204.04288	9.64283	0.0470434	0.18148758	3.0896179	21	6 24.3	19.6
140700 2001 UW_{74}	15.1	X	140.28276	302.38691	194.77303	9.25826	0.0831421	0.18121407	3.0927259	21	7 4.1	19.9
140701 2001 UJ_{75}	15.0	X	307.53842	280.14422	85.89225	6.05426	0.1360613	0.18876833	3.0096544	21	7 29.2	18.7
140702 2001 UZ_{75}	16.2	X	133.49764	274.66829	129.12910	3.08091	0.2034254	0.21872863	2.7281335	21	3 14.1	20.4
140703 2001 UE_{77}	15.7	X	256.15523	290.05102	124.83772	2.41718	0.1908343	0.18650827	3.0339190	21	7 15.5	20.1
140704 2001 UG_{77}	15.5	X	80.14841	247.93182	90.68096	3.35610	0.0437195	0.20257468	2.8713046	21	12 31.3	19.6
140705 2001 UG_{78}	14.6	X	5.69029	185.55081	28.16533	17.69569	0.1408899	0.17701602	3.1414320	21	4 12.7	18.2
140706 2001 UV_{79}	16.0	X	235.80549	328.92741	79.40670	2.31200	0.0586703	0.23427857	2.6060396	21	6 29.4	19.5
140707 2001 UB_{80}	15.5	X	10.17775	350.29803	87.59944	3.25068	0.0676661	0.20653187	2.8345100	21	—	—
140708 2001 UH_{81}	15.6	X	226.59037	5.37199	108.84047	2.00405	0.1832466	0.18801480	3.0176905	21	8 29.8	20.4
140709 2001 US_{82}	15.7	X	289.01089	312.56002	144.65240	1.88470	0.1287860	0.19615270	2.9336380	21	10 31.4	19.4
140710 2001 UZ_{82}	14.5	X	332.26804	244.92693	60.15772	10.27987	0.1072129	0.18461118	3.0546682	21	6 17.9	18.3
140711 2001 UB_{86}	15.4	X	11.72958	306.64364	46.57738	9.90310	0.0476993	0.19641708	2.9310050	21	10 24.9	19.2
140712 2001 UK_{88}	15.0	X	290.82698	78.62496	174.63700	5.28318	0.1100451	0.17317141	3.1877574	21	2 15.5	19.5
140713 2001 UB_{89}	15.1	X	8.60749	216.10527	93.70648	12.23576	0.1074409	0.19099698	2.9861965	21	8 31.3	18.9
140714 2001 UO_{89}	14.8	X	113.84052	3.61342	123.74487	12.56564	0.0382028	0.17778927	3.1323168	21	5 21.6	19.4
140715 2001 UV_{91}	15.6	X	316.12927	262.39904	81.19772	8.52523	0.2212417	0.18944198	3.0025153	21	6 28.5	19.0
140716 2001 UK_{92}	15.2	X	238.48496	271.83270	68.04734	11.33778	0.1079679	0.17672371	3.1448951	21	4 9.6	20.1
140717 2001 UQ_{92}	14.8	X	197.40902	359.20162	66.13434	10.16662	0.0683367	0.18005944	3.1059333	21	6 6.5	19.4
140718 2001 UG_{93}	14.6	X	26.86116	36.48731	155.51361	16.17846	0.0467523	0.17528933	3.1620282	21	4 20.8	19.0
140719 2001 UL_{93}	14.6	X	246.05112	293.42372	137.07255	10.85200	0.2044264	0.18685655	3.0301479	21	7 22.6	19.4
140720 2001 UO_{93}	14.6	X	117.25775	259.85879	168.99502	14.98532	0.0744753	0.16979758	3.2298453	21	3 16.9	19.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
140721 2001 UT_{93}	15.2	X	251.11360	305.64948	70.11347	18.21297	0.1360159	0.18268733	3.0760763	21	5 28.8	19.8
140722 2001 UU_{93}	15.0	X	308.76981	293.74234	83.33950	14.72665	0.1477800	0.19033283	2.9931392	21	8 17.5	18.9
140723 2001 UY_{93}	15.2	X	300.54526	236.42122	148.18245	10.47653	0.0985303	0.18936186	3.0033622	21	8 16.4	19.0
140724 2001 UL_{94}	15.0	X	292.61221	188.18116	158.44653	10.16837	0.0977863	0.18429290	3.0581842	21	6 16.7	19.3
140725 2001 UX_{94}	14.7	X	214.83389	286.84712	93.95670	11.49150	0.1077378	0.17766798	3.1337422	21	5 4.2	19.7
140726 2001 UU_{95}	15.7	X	48.57949	6.04297	64.01891	5.33719	0.0477137	0.21251592	2.7810475	21	—	—
140727 2001 UA_{96}	15.0	X	340.93992	17.62339	213.95048	5.27870	0.0549696	0.17686706	3.1431956	21	3 31.8	19.2
140728 2001 UC_{96}	16.1	X	58.93438	287.37363	47.97411	2.66129	0.0730297	0.20202626	2.8764986	21	12 5.7	20.0
140729 2001 UV_{97}	15.7	X	85.16749	249.60468	95.13764	3.24086	0.0910010	0.20612803	2.8382110	21	—	—
140730 2001 UU_{98}	15.0	X	210.75958	50.86947	60.89948	10.65934	0.0640961	0.18741494	3.0241261	21	8 24.9	19.6
140731 2001 UW_{98}	15.4	X	57.41876	354.77855	76.04512	6.81005	0.0483004	0.21159631	2.7890993	21	—	—
140732 2001 UM_{99}	15.5	X	66.20732	173.42003	148.15068	2.64726	0.0593068	0.20014347	2.8945103	21	11 26.2	19.5
140733 2001 UR_{99}	15.9	X	319.45489	292.35667	152.58355	2.92152	0.0767673	0.20043663	2.8916872	21	12 6.3	19.4
140734 2001 UF_{100}	15.6	X	342.31971	292.82297	65.31386	3.19521	0.0665107	0.19287056	2.9668261	21	9 19.0	19.3
140735 2001 UH_{101}	15.1	X	130.57897	318.87037	192.18306	11.46988	0.1207057	0.18469068	3.0537916	21	7 13.4	20.0
140736 2001 UJ_{102}	15.1	X	41.77765	307.40163	192.78139	14.72348	0.0757334	0.17069573	3.2185057	21	3 2.6	19.4
140737 2001 UY_{103}	16.2	X	300.46937	284.90692	51.16851	3.57646	0.1740150	0.18708863	3.0276416	21	5 31.9	20.2
140738 2001 UH_{104}	15.9	X	327.99112	348.86375	184.24549	1.20561	0.0496646	0.21483588	2.7609900	21	—	—
140739 2001 UZ_{104}	15.6	X	23.58817	245.69120	76.13938	3.17789	0.0390681	0.19403020	2.9549932	21	9 29.8	19.5
140740 2001 UY_{105}	15.6	X	293.32635	193.61650	139.88175	1.30305	0.1989002	0.18548657	3.0450498	21	5 15.9	19.9
140741 2001 UC_{107}	15.7	X	244.39033	299.05646	159.52480	1.86954	0.0421296	0.19110909	2.9850286	21	9 15.2	19.7
140742 2001 UL_{107}	14.8	X	308.74492	63.65308	211.44684	16.06735	0.1821885	0.17768961	3.1334879	21	3 23.1	19.2
140743 2001 UT_{107}	16.2	X	55.74812	213.34771	153.48358	2.52680	0.0806586	0.20515741	2.8471558	21	—	—
140744 2001 UE_{108}	15.6	X	207.80140	356.35451	138.61768	1.70321	0.0831865	0.19117046	2.9843896	21	9 13.7	19.9
140745 2001 UU_{108}	14.9	X	247.10761	297.63099	71.76268	11.09661	0.1060871	0.17970799	3.1099814	21	5 20.5	19.5
140746 2001 US_{109}	15.6	X	285.44667	205.30832	199.77584	3.67128	0.1224076	0.18834619	3.0141497	21	8 17.0	19.6
140747 2001 UV_{109}	16.6	X	220.12095	60.36433	228.61651	19.27453	0.0729880	0.36455943	1.9406944	21	—	—
140748 2001 UD_{110}	15.2	X	235.14949	288.26053	204.64439	7.96322	0.0607882	0.19758347	2.9194586	21	10 14.9	19.2
140749 2001 UE_{113}	15.0	X	198.90666	64.29746	45.24871	11.92495	0.2749105	0.18111097	3.0938995	21	7 29.4	20.7
140750 2001 UZ_{113}	15.3	X	210.77502	84.13207	44.09232	10.83263	0.0522229	0.19064583	2.9898622	21	9 16.2	19.8
140751 2001 UN_{114}	15.2	X	242.00528	208.96606	98.81991	2.68802	0.1327909	0.17319775	3.1874342	21	2 28.9	20.2
140752 2001 UH_{115}	15.1	X	221.75987	205.30256	208.62229	10.30555	0.1058441	0.18228513	3.0805994	21	6 16.6	19.9
140753 2001 UC_{116}	15.1	X	351.19886	255.28266	46.06566	12.37432	0.1064491	0.18623394	3.0368977	21	7 17.6	19.0
140754 2001 UX_{117}	15.3	X	242.22134	352.92492	49.39230	7.39466	0.1711849	0.18350524	3.0669291	21	6 17.2	20.1
140755 2001 UY_{117}	15.4	X	333.91744	347.05300	45.73054	2.50874	0.1056460	0.19486299	2.9465681	21	10 20.1	18.9
140756 2001 UR_{118}	16.0	X	292.14827	286.22127	64.89719	9.11950	0.2617726	0.18682189	3.0305227	21	5 27.2	20.0
140757 2001 UX_{118}	15.7	X	324.99835	311.35313	100.21139	3.43127	0.1664412	0.19541435	2.9410230	21	10 28.7	18.8
140758 2001 UA_{119}	15.8	X	326.68533	319.79563	87.29056	3.21638	0.0762355	0.19536258	2.9415425	21	10 29.1	19.5
140759 2001 UB_{119}	15.2	X	206.72700	231.06235	193.00376	4.56632	0.1514837	0.18048908	3.1010023	21	6 12.3	20.3
140760 2001 UN_{119}	15.5	X	135.09176	37.17349	68.27725	2.29744	0.1656735	0.17452723	3.1712264	21	5 28.4	20.4
140761 2001 UO_{120}	15.1	X	215.45010	207.40731	50.33723	13.58063	0.0665067	0.21071721	2.7968513	21	—	—
140762 2001 UQ_{120}	16.0	X	161.42840	221.30903	75.74150	3.75585	0.0750015	0.20904028	2.8117890	21	—	—
140763 2001 UY_{120}	15.7	X	346.38782	290.82625	152.81434	2.69697	0.2114603	0.20211652	2.8756421	21	—	—
140764 2001 UB_{122}	14.0	X	220.64414	324.80151	51.78513	16.48127	0.1164469	0.17721228	3.1391122	21	5 2.1	18.9
140765 2001 UF_{122}	14.5	X	256.56337	276.05962	56.90404	15.72636	0.0549164	0.17569540	3.1571542	21	4 25.1	19.2
140766 2001 UZ_{122}	14.6	X	283.56440	248.62683	58.46056	22.49156	0.2477853	0.17849708	3.1240308	21	4 7.3	19.7
140767 2001 UA_{123}	14.9	X	314.26235	134.35598	227.61477	7.87122	0.1055819	0.18736649	3.0246475	21	8 3.2	18.9
140768 2001 UL_{123}	14.5	X	163.49652	227.18421	221.68861	9.70057	0.1656118	0.17563071	3.1579293	21	6 3.8	19.7
140769 2001 UA_{124}	15.4	X	16.94890	286.46016	113.15179	13.08616	0.1005826	0.20382352	2.8595642	21	—	—
140770 2001 UU_{125}	15.0	X	338.77672	227.19949	118.88840	11.49882	0.0845085	0.19238581	2.9718076	21	8 28.9	18.7
140771 2001 UJ_{126}	14.6	X	335.86974	260.88545	106.96098	12.65983	0.1193248	0.19300306	2.9654681	21	9 25.2	18.3
140772 2001 UU_{127}	14.6	X	275.43962	294.08014	87.25689	9.93990	0.1027125	0.18442217	3.0567550	21	7 7.8	18.8
140773 2001 UY_{128}	15.3	X	101.11912	259.84699	20.53520	14.82083	0.1391810	0.20424499	2.8556290	21	11 19.9	19.9
140774 2001 UC_{131}	15.4	X	126.34258	79.92535	70.49320	1.91259	0.0551227	0.18178338	3.0862653	21	7 3.5	19.9
140775 2001 US_{131}	15.3	X	22.89788	221.06918	47.56879	6.89371	0.0260631	0.18481006	3.0524763	21	7 19.4	19.5
140776 2001 UU_{131}	15.1	X	137.65450	275.96451	132.98750	2.19558	0.0572807	0.17007473	3.2263355	21	3 14.2	19.8
140777 2001 UZ_{131}	16.2	X	51.69975	175.93634	196.36410	1.64576	0.0782051	0.20401515	2.8577733	21	—	—
140778 2001 UA_{133}	16.3	X	4.81289	150.36307	252.07328	0.99812	0.0670366	0.20308285	2.8665128	21	12 18.1	20.0
140779 2001 UF_{133}	15.5	X	265.48332	349.73520	217.99307	4.19271	0.0903337	0.21249376	2.7812409	21	—	—
140780 2001 UW_{133}	15.1	X	146.80884	40.49066	212.03172	20.71614	0.0476074	0.20227415	2.8741480	21	12 2.3	19.5
140781 2001 UD_{134}	15.4	X	257.32268	350.53239	213.47927	7.25316	0.1517141	0.21038521	2.7997929	21	—	—
140782 2001 UH_{136}	15.7	X	211.30497	1.30341	72.75985	2.24796	0.2379089	0.18101302	3.0950156	21	6 24.5	21.1
140783 2001 UP_{137}	16.1	X	93.18054	83.92038	74.19788	3.41074	0.0320102	0.23125738	2.6286876	21	5 27.5	19.4
140784 2001 UN_{139}	15.1	X	39.20841	35.07582	200.34286	11.34249	0.1145314	0.18465639	3.0541697	21	7 4.7	19.2
140785 2001 UG_{140}	15.0	X	89.27764	112.54656	50.79806	10.39038	0.0613978	0.18001065	3.1064944	21	6 3.9	19.4
140786 2001 UR_{140}	16.6	X	205.70666	15.30372	117.22113	1.46661	0.1489545	0.23984345	2.5655716	21	9 6.9	20.5
140787 2001 UF_{141}	15.9	X	321.66452	315.72254	185.69753	6.22624	0.0064938	0.20963990	2.8064249	21	—	—
140788 2001 UD_{142}	15.5	X	114.21339	166.34151	151.90362	2.39290	0.0740295	0.20631739	2.8364742	21	—	—
140789 2001 UM_{142}	15.4	X	139.80103	263.48169	211.53608	9.99288	0.0624761	0.17930016	3.1146955	21	6 5.4	20.0
140790 2001 UV_{142}	15.3	X	26.86089	78.04319	207.83737	4.02214	0.0756364	0.18893769	3.0078556	21	8 18.4	19.2
140791 2001 UG_{143}	15.3	X	160.19881	287.64641	175.84987	4.97042	0.1222455	0.17940149	3.1135225	21	6 16.6	20.2
140792 2001 UW_{143}	15.2	X	233.09671	43.14165	55.17456	9.53038	0.0809975	0.18863470	3.0110755	21	8 31.8	19.7
140793 2001 UM_{144}	14.8	X	201.53181	133.58551	199.91702	10.91468	0.1110929	0.17047162	3.2213259	21	2 18.3	20.0
140794 2001 UQ_{145}	15.3	X	165.78511	98.97979	63.46616	9.86237	0.0765157	0.18761099	3.0220190	21	9 7.6	20.0
140795 2001 UF_{146}	15.2	X	289.10163	121.10795	225.80405	10.57144	0.0586011	0.18288260	3.0738862	21	6 17.2	19.5
140796 2001 UN_{146}	15.2	X	199.58426	55.65989	45.31846	8.50999	0.1522012	0.18290221	3.0736665	21	7 22.5	20.3
140797 2001 UE_{148}	15.9	X	277.22340	278.95847	140.66228	0.67545	0.0378026	0.19115296	2.9845718	21	9 7.9	19.9
140798 2001 UR_{149}	15.7	X	48.57880	258.30260	93.26968	3.26259	0.0721841	0.19991789	2.8966873	21	12 12.7	19.5
140799 2001 UG_{150}	15.4	X	330.49566	328.66068	62.99453	3.20414	0.1242208	0.19372716	2.9580741	21	10 12.9	18.9
140800 2001 UV_{150}	15.0	X	176.36466	171.05456	207.27931	5.16596	0.1697781	0.17175703	3.2052337	21	3 22.6	20.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
140801 2001 UK_{151}	15.5	X	265.33749	59.26254	100.58052	3.18866	0.0122291	0.20175234	2.8791016	21	—	—
140802 2001 UM_{151}	15.2	X	217.30647	198.58302	206.66296	4.80045	0.1673483	0.17972965	3.1097315	21	5 29.6	20.2
140803 2001 UX_{151}	15.0	X	338.59731	358.60866	56.48809	10.64451	0.1001327	0.19732691	2.9219886	21	11 25.6	18.4
140804 2001 UJ_{152}	15.7	X	171.39004	234.15272	204.10999	5.38490	0.0872347	0.22705491	2.6610240	21	5 24.9	19.7
140805 2001 UQ_{152}	15.6	X	68.65167	219.80669	84.04693	3.31318	0.0823794	0.19561492	2.9390122	21	11 9.9	19.8
140806 2001 UT_{152}	14.9	X	236.13075	307.55882	56.37778	8.60086	0.0673113	0.17672028	3.1449358	21	5 5.5	19.6
140807 2001 UR_{153}	14.6	X	141.23398	2.31717	67.30425	15.44940	0.0917163	0.17141391	3.2095096	21	4 20.7	19.6
140808 2001 UV_{156}	15.0	X	124.76530	102.42984	68.37126	12.57974	0.0580562	0.18280769	3.0747260	21	7 30.5	19.6
140809 2001 UL_{157}	15.5	X	354.47861	330.89567	85.71442	3.36735	0.0785876	0.20025666	2.8934195	21	12 21.7	19.2
140810 2001 UM_{158}	15.4	X	168.23991	248.42972	215.24285	8.84675	0.0744937	0.17944645	3.1130025	21	6 22.7	20.2
140811 2001 UC_{159}	15.9	X	187.17818	359.11265	106.31239	2.96997	0.1892850	0.18063054	3.0993831	21	7 14.1	21.2
140812 2001 UE_{159}	15.1	X	189.44537	211.32120	218.24467	10.38105	0.0860772	0.17826862	3.1266993	21	6 3.8	20.0
140813 2001 UN_{159}	15.6	X	235.49035	249.32790	204.35482	1.88950	0.0518456	0.18700809	3.0285108	21	8 26.5	19.9
140814 2001 US_{159}	15.0	X	43.42659	239.48422	61.55603	11.33343	0.1302552	0.19238258	2.9718409	21	10 15.5	19.0
140815 2001 UL_{160}	15.3	X	342.67822	321.78945	55.82066	12.60495	0.0501768	0.19285049	2.9670319	21	10 17.8	19.2
140816 2001 UD_{161}	15.5	X	262.48455	244.07828	161.48391	3.40883	0.1771400	0.18551381	3.0447518	21	7 12.1	20.0
140817 2001 UR_{161}	15.2	X	270.25355	28.23296	56.96687	9.57159	0.0670479	0.19057951	2.9905558	21	10 1.8	19.4
140818 2001 UC_{162}	14.6	X	349.28256	278.45851	61.46326	7.71557	0.2212048	0.19089037	2.9873082	21	9 9.0	17.5
140819 2001 UR_{162}	15.8	X	201.11998	7.62548	221.84656	4.97349	0.0169215	0.20349934	2.8626003	21	—	—
140820 2001 UO_{163}	14.3	X	269.73414	63.01608	234.06026	25.75920	0.2509479	0.17459091	3.1704553	21	2 20.9	20.0
140821 2001 UA_{164}	14.8	X	46.39654	108.15027	70.36680	9.26425	0.0490766	0.17837086	3.1255044	21	4 28.8	19.0
140822 2001 UQ_{164}	15.0	X	50.69513	144.72286	183.44245	10.03402	0.1177871	0.19908449	2.9047656	21	11 24.4	19.1
140823 2001 UT_{165}	14.6	X	38.42522	89.68513	151.24503	10.38188	0.0346118	0.18535152	3.0465287	21	7 3.4	18.9
140824 2001 UC_{167}	15.2	X	243.98077	101.21707	297.58259	10.38637	0.0578902	0.18618553	3.0374241	21	6 28.1	19.6
140825 2001 UZ_{167}	14.7	X	342.10268	79.51315	286.05161	11.24825	0.1777458	0.19255672	2.9700489	21	9 18.7	18.1
140826 2001 UX_{168}	14.7	X	192.63508	125.09052	316.48851	13.42331	0.2146432	0.17723961	3.1387895	21	6 20.3	20.2
140827 2001 UZ_{169}	15.3	X	268.00416	290.16622	19.58148	9.65329	0.0771054	0.17684537	3.1434526	21	4 3.7	19.9
140828 2001 UA_{172}	15.9	X	267.81240	322.00811	34.67034	0.81509	0.0529904	0.18411061	3.0602025	21	6 3.3	20.3
140829 2001 UQ_{172}	16.0	X	220.66831	197.44076	47.53508	5.03662	0.0173854	0.21012003	2.8021480	21	—	—
140830 2001 UL_{173}	15.7	X	266.81962	354.54958	39.82560	11.37347	0.0589065	0.18636108	3.0355163	21	7 22.9	20.2
140831 2001 UV_{174}	15.0	X	102.88057	17.19186	272.13237	0.76055	0.1002690	0.20370977	2.8606286	21	12 2.8	19.1
140832 2001 UK_{175}	15.5	X	309.39643	153.03688	191.90839	10.15968	0.1256190	0.18778679	3.0201327	21	7 2.7	19.6
140833 2001 UE_{179}	15.7	X	112.59043	265.05819	34.68920	2.20773	0.0446828	0.20336672	2.8638446	21	12 21.4	19.9
140834 2001 UF_{179}	15.4	X	131.43625	268.56999	224.96173	9.30429	0.1486357	0.17813161	3.1283023	21	6 26.0	20.4
140835 2001 UL_{184}	16.2	X	145.77391	3.45272	100.83126	4.12956	0.1212459	0.22960633	2.6412741	21	6 1.6	20.2
140836 2001 UD_{192}	14.6	X	329.55563	78.58336	263.23106	13.01566	0.1146252	0.19156384	2.9803026	21	7 29.6	18.4
140837 2001 UP_{192}	15.0	X	46.88082	90.12507	291.70626	11.39528	0.1134633	0.20609956	2.8384724	21	—	—
140838 2001 UU_{192}	14.8	X	272.41120	115.08758	287.33818	8.92053	0.0371515	0.19032037	2.9932698	21	8 8.0	19.0
140839 2001 UH_{193}	15.3	X	229.89908	175.53499	301.85558	11.28542	0.0306976	0.24463475	2.5319626	21	9 21.5	19.0
140840 2001 UO_{193}	14.6	X	117.28123	221.83341	278.52843	11.33909	0.0598055	0.18205058	3.0832448	21	6 10.3	19.1
140841 2001 UO_{198}	15.2	X	26.27415	262.36428	11.36827	10.30702	0.0809586	0.18980567	2.9986787	21	8 7.6	19.1
140842 2001 UH_{199}	14.9	X	262.59519	229.31889	96.35593	7.32485	0.1587291	0.18175375	3.0866007	21	4 10.3	19.7
140843 2001 UP_{203}	16.0	X	170.02479	284.14979	15.71505	3.76652	0.0715487	0.21188596	2.7865570	21	—	—
140844 2001 UE_{206}	15.1	X	263.59039	306.96042	93.97824	8.61941	0.1945853	0.18930956	3.0039154	21	7 5.7	19.4
140845 2001 UK_{206}	16.0	X	312.07478	207.98687	208.35662	10.67452	0.0852264	0.19802655	2.9151021	21	10 17.4	19.6
140846 2001 UX_{206}	15.1	X	112.64945	225.38334	56.82775	16.00902	0.1269307	0.20353184	2.8622956	21	12 4.6	19.6
140847 2001 UR_{209}	16.1	X	157.19835	202.19464	292.96050	4.02364	0.1296168	0.23528840	2.5985777	21	7 23.6	20.2
140848 2001 UJ_{210}	15.4	X	298.14289	65.22490	307.87143	20.52394	0.2568038	0.19052961	2.9910779	21	7 7.0	19.3
140849 2001 UB_{212}	15.3	X	140.04765	302.94968	238.52739	8.30085	0.0651522	0.18827779	3.0148797	21	8 24.8	19.9
140850 2001 UH_{212}	16.0	X	295.10159	100.62826	285.36717	1.64342	0.1147686	0.18905330	3.0066293	21	8 7.8	19.8
140851 2001 UA_{213}	15.1	X	342.38876	218.41069	100.85525	3.06471	0.0397728	0.18739807	3.0243077	21	7 28.4	19.0
140852 2001 UT_{215}	15.0	X	326.03058	217.35804	52.96084	13.39676	0.1687724	0.17839663	3.1252033	21	4 19.3	18.9
140853 2001 UU_{215}	15.0	X	328.12131	107.31353	221.28879	9.45084	0.1537662	0.18530412	3.0470483	21	7 7.1	18.7
140854 2001 UR_{219}	14.8	X	210.42451	286.93711	88.29305	9.38738	0.0702287	0.17568950	3.1572248	21	4 24.2	19.7
140855 2001 US_{219}	14.3	X	245.42859	236.36900	87.93804	18.57570	0.0870048	0.17264013	3.1942940	21	4 5.3	19.4
140856 2001 UY_{219}	16.1	X	333.60437	114.17658	41.04790	9.41651	0.0890233	0.21223584	2.7834936	21	—	—
140857 2001 UZ_{221}	16.0	X	38.34763	298.53997	74.04630	3.05025	0.0824579	0.20064492	2.8896857	21	12 27.3	19.9
140858 2001 UU_{222}	16.1	X	319.33199	248.62817	161.23153	1.77413	0.0474270	0.19412145	2.9540672	21	10 22.5	20.0
140859 2001 VP	14.9	X	185.37936	267.90516	142.57223	26.09416	0.2595016	0.17659911	3.1463742	21	5 15.8	20.9
140860 2001 VW	15.4	X	131.10668	292.55951	120.53153	14.22889	0.3273535	0.22197768	2.7014474	21	4 8.9	20.2
140861 2001 VD_{1}	15.2	X	156.98691	274.17385	121.38158	15.42704	0.2615957	0.22420842	2.6834990	21	4 3.5	20.0
140862 2001 VB_{3}	14.8	X	295.43657	286.07083	35.78835	11.52525	0.0872154	0.18168281	3.0874042	21	5 18.4	19.0
140863 2001 VZ_{3}	16.0	X	121.12992	305.29644	9.03751	1.83020	0.0551936	0.20376402	2.8601209	21	—	—
140864 2001 VL_{4}	16.5	X	31.13094	349.98842	239.26895	19.48147	0.0469737	0.37863116	1.8923079	21	5 29.8	17.7
140865 2001 VX_{7}	15.0	X	53.71042	83.88282	237.84689	10.97046	0.0553001	0.19709423	2.9242878	21	11 8.8	19.1
140866 2001 VZ_{9}	14.9	X	248.58062	168.31768	236.68435	11.63810	0.1898961	0.18694685	3.0291721	21	6 24.5	19.8
140867 2001 VJ_{10}	14.9	X	182.33279	109.46306	299.32076	9.25879	0.1324604	0.17637809	3.1490021	21	4 28.9	20.1
140868 2001 VQ_{10}	15.0	X	234.94601	105.62965	288.80180	10.05164	0.1146001	0.18180687	3.0859995	21	6 5.4	19.7
140869 2001 VZ_{10}	16.4	X	22.12463	182.60050	32.57853	10.64226	0.0250035	0.27775606	2.3264498	21	4 28.7	18.9
140870 2001 VS_{12}	14.5	X	214.18589	52.45446	23.90003	16.56375	0.1016946	0.18158649	3.0884958	21	7 9.4	19.5
140871 2001 VH_{15}	15.0	X	197.00371	40.03194	29.95824	8.61398	0.1184183	0.17867264	3.1219840	21	6 10.0	20.0
140872 2001 VO_{16}	15.5	X	191.75838	283.84656	165.21270	14.35215	0.1411551	0.23203141	2.6228384	21	6 28.6	19.9
140873 2001 VH_{17}	15.0	X	284.47810	7.17772	55.94376	12.30115	0.0839199	0.18967742	3.0000302	21	9 22.3	19.2
140874 2001 VL_{17}	14.7	X	245.25537	271.15456	72.78552	9.82311	0.0905687	0.17475295	3.1684951	21	4 21.7	19.5
140875 2001 VP_{17}	15.1	X	88.50470	321.47837	352.32036	11.90289	0.0635134	0.20234741	2.8734542	21	12 11.8	19.5
140876 2001 VM_{19}	14.8	X	142.81559	21.33369	39.98104	10.63780	0.0464777	0.17201968	3.2019703	21	4 4.9	19.5
140877 2001 VN_{19}	15.3	X	178.06530	87.61791	337.45463	0.64064	0.1799856	0.17695196	3.1421902	21	5 18.7	20.4
140878 2001 VP_{19}	15.3	X	232.74859	59.39695	47.06635	13.67519	0.0752756	0.18922186	3.0048434	21	9 13.9	19.9
140879 2001 VE_{20}	15.4	X	295.14379	20.76073	0.26137	1.53811	0.1501892	0.18825845	3.0150862	21	7 27.6	19.2
140880 2001 VL_{20}	15.7	X	92.94438	238.91798	256.20993	3.83093	0.0414391	0.22477909	2.6789551	21	4 26.7	19.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
140881 2001 VB_{21}	15.2	X	158.70203	200.23883	235.18454	4.06188	0.1439978	0.17506984	3.1646704	21	5 12.8	20.3
140882 2001 VG_{22}	15.0	X	301.50795	293.85660	45.76186	10.06833	0.0567296	0.18288318	3.0738797	21	6 24.7	19.3
140883 2001 VD_{24}	15.8	X	163.24318	127.20477	261.03335	2.17721	0.1200660	0.22029646	2.7151742	21	3 14.6	20.0
140884 2001 VH_{25}	14.8	X	245.36611	315.95893	54.12244	11.46714	0.1032186	0.17920750	3.1157691	21	5 18.5	19.4
140885 2001 VH_{26}	14.9	X	288.09975	108.26225	241.03147	8.02380	0.1372727	0.18293100	3.0733440	21	6 7.5	19.0
140886 2001 VY_{27}	15.0	X	238.50414	76.98385	44.29760	4.48240	0.1028163	0.19038359	2.9926072	21	9 29.9	19.4
140887 2001 VD_{28}	15.8	X	209.47458	57.51111	46.83767	1.14814	0.1683697	0.18271353	3.0757822	21	8 2.4	20.8
140888 2001 VX_{28}	14.1	X	231.73885	287.94357	63.09837	18.48655	0.1581488	0.17523153	3.1627234	21	4 15.8	19.4
140889 2001 VL_{29}	15.6	X	270.26698	333.52680	89.40676	3.54072	0.1508181	0.18732523	3.0250916	21	8 18.1	19.8
140890 2001 VK_{30}	15.2	X	254.46170	337.61866	35.85622	1.82512	0.2083842	0.18145571	3.0899797	21	5 21.4	20.1
140891 2001 VB_{31}	15.0	X	118.66605	349.11919	63.84967	26.91474	0.1328826	0.21588714	2.7520197	21	3 16.9	19.5
140892 2001 VG_{31}	14.6	X	245.93623	353.62588	67.83038	17.01238	0.0700097	0.18369228	3.0648468	21	7 30.7	19.3
140893 2001 VF_{32}	14.9	X	135.00233	105.66215	29.11791	2.12950	0.1164097	0.17654608	3.1470043	21	6 29.4	19.7
140894 2001 VT_{32}	15.5	X	261.74344	189.08667	260.99012	1.77588	0.1626985	0.18844973	3.0130456	21	9 7.4	19.8
140895 2001 VR_{33}	15.2	X	276.82663	347.27899	49.82456	1.27576	0.2093250	0.18599613	3.0394858	21	7 14.4	19.6
140896 2001 VW_{35}	14.5	X	210.29967	52.46581	68.44265	19.06375	0.1191457	0.18461443	3.0546324	21	9 5.1	19.6
140897 2001 VC_{36}	14.3	X	284.52132	288.13604	63.76348	10.18896	0.2984200	0.18427836	3.0583451	21	5 15.3	19.0
140898 2001 VV_{37}	14.8	X	330.00376	337.33241	92.89296	9.03331	0.2248392	0.19641708	2.9310049	21	12 2.6	17.4
140899 2001 VK_{38}	15.4	X	31.35585	276.23608	60.96686	15.85207	0.1405344	0.19636399	2.9315332	21	11 12.8	19.1
140900 2001 VW_{38}	14.6	X	216.74228	100.09388	243.31348	16.02871	0.0874154	0.17140957	3.2095638	21	3 13.1	19.9
140901 2001 VT_{40}	14.7	X	262.97940	271.82028	54.31040	10.47020	0.2266418	0.17687021	3.1431583	21	4 5.3	19.8
140902 2001 VK_{49}	15.4	X	183.14836	53.11587	65.31671	10.20897	0.0403763	0.18525475	3.0475896	21	7 31.1	20.0
140903 2001 VO_{49}	14.8	X	337.92352	32.63890	341.14150	11.50240	0.0743947	0.19456970	2.9495284	21	9 27.9	18.6
140904 2001 VV_{49}	15.3	X	286.85660	66.78044	2.41859	11.70302	0.1925611	0.19221708	2.9735465	21	9 12.6	19.2
140905 2001 VC_{50}	14.8	X	345.05808	63.95906	268.63060	10.17754	0.0577837	0.18948821	3.0020269	21	8 13.9	18.9
140906 2001 VG_{52}	15.2	X	21.77070	227.07290	236.63563	9.27549	0.1409585	0.21045180	2.7992023	21	—	—
140907 2001 VJ_{52}	15.7	X	191.34384	71.06618	298.51345	2.42026	0.0672009	0.22340108	2.6899603	21	3 17.9	19.5
140908 2001 VP_{53}	14.6	X	160.75386	193.71041	237.63230	8.06835	0.0980240	0.17642827	3.1484051	21	5 6.9	19.3
140909 2001 VW_{54}	15.0	X	330.82508	333.58251	334.95851	5.93548	0.1479249	0.18587027	3.0408577	21	6 16.2	18.6
140910 2001 VH_{55}	14.7	X	201.46034	89.21973	317.96014	4.88453	0.0767031	0.17900315	3.1181399	21	5 18.2	19.4
140911 2001 VO_{57}	14.9	X	261.47498	313.76062	49.08229	12.63519	0.0759049	0.17966739	3.1104499	21	5 29.9	19.4
140912 2001 VA_{58}	16.1	X	230.76504	113.59839	291.49519	1.91671	0.2340685	0.23288205	2.6164476	21	6 4.2	20.6
140913 2001 VT_{58}	14.6	X	3.59501	62.75628	261.79359	9.28535	0.1068883	0.19116826	2.9844126	21	9 1.6	18.5
140914 2001 VH_{60}	14.9	X	277.32922	15.29430	37.07915	11.68651	0.0284170	0.18894926	3.0077328	21	9 5.8	19.2
140915 2001 VY_{61}	14.8	X	262.05891	56.28123	263.60912	7.11379	0.1129591	0.17638184	3.1489576	21	4 1.3	19.6
140916 2001 VN_{62}	14.8	X	211.91639	332.35028	35.25501	9.21966	0.1261213	0.17552682	3.1591754	21	4 12.2	19.8
140917 2001 VQ_{62}	14.5	X	189.19286	216.12251	245.38143	10.43744	0.1327590	0.18180054	3.0860712	21	7 10.2	19.5
140918 2001 VZ_{62}	14.4	X	111.11796	310.24365	254.67506	12.47326	0.2183230	0.18455512	3.0552868	21	9 2.6	19.7
140919 2001 VM_{63}	15.1	X	222.30650	137.20673	289.36288	2.70631	0.2006617	0.18256807	3.0774157	21	6 26.6	20.0
140920 2001 VQ_{65}	15.8	X	151.60180	106.57401	300.04408	4.06451	0.1674497	0.22088145	2.7103781	21	3 28.4	20.0
140921 2001 VS_{65}	14.8	X	332.74510	307.07887	35.21529	9.74318	0.0784187	0.18696192	3.0290093	21	8 16.1	18.8
140922 2001 VW_{65}	15.4	X	234.66400	89.75585	308.88346	3.18568	0.2054040	0.23173930	2.6250420	21	6 1.3	19.7
140923 2001 VX_{66}	15.9	X	333.28806	38.40971	330.74888	2.26559	0.1317126	0.24146063	2.5541035	21	9 21.6	18.5
140924 2001 VU_{67}	14.7	X	150.21743	158.83373	304.78781	10.62081	0.0240507	0.18073387	3.0982017	21	5 29.2	19.3
140925 2001 VR_{68}	14.2	X	194.36416	87.79186	359.64406	16.77610	0.2210243	0.18061742	3.0995332	21	6 29.2	19.8
140926 2001 VY_{69}	14.6	X	105.19606	117.52834	27.32549	11.21564	0.1670316	0.17419449	3.1752636	21	6 14.3	19.5
140927 2001 VM_{74}	15.3	X	269.36360	178.74040	233.21062	8.72041	0.1197100	0.18753935	3.0227886	21	8 2.9	19.8
140928 2001 VG_{75}	18.2	X	96.98711	257.29140	245.47342	20.66213	0.2970504	0.52659684	1.5187416	21	6 10.6	18.6
140929 2001 VY_{77}	15.2	X	225.40125	295.34004	43.90834	5.59313	0.0443518	0.17267040	3.1939206	21	3 27.6	19.8
140930 2001 VU_{79}	15.3	X	200.85237	314.54934	130.32137	6.33067	0.1566668	0.18101914	3.0949458	21	7 1.7	20.4
140931 2001 VO_{81}	15.5	X	248.43992	321.02316	104.55411	2.16018	0.1989884	0.18557942	3.0440341	21	7 20.1	20.2
140932 2001 VA_{82}	16.6	X	294.21490	245.58899	71.29462	24.47127	0.0742612	0.37844413	1.8929314	21	5 6.9	18.7
140933 2001 VS_{82}	15.0	X	295.77095	101.67085	208.24738	11.32126	0.0375151	0.17881956	3.1202738	21	5 13.8	19.4
140934 2001 VB_{84}	15.9	X	191.74385	323.31551	159.33841	2.37267	0.2531836	0.18111550	3.0938480	21	8 5.7	21.2
140935 2001 VM_{84}	14.8	X	102.91967	44.53144	255.70314	14.18089	0.1353300	0.20354358	2.8621855	21	12 18.2	19.3
140936 2001 VV_{84}	15.2	X	182.45310	166.37722	292.24507	8.95095	0.0828027	0.18246074	3.0786224	21	7 2.6	19.9
140937 2001 VS_{86}	14.5	X	356.59836	127.61279	286.97032	11.80716	0.1871782	0.20344201	2.8631380	21	—	—
140938 2001 VU_{88}	14.9	X	230.29408	238.90151	170.27463	15.27104	0.2349122	0.18218901	3.0816828	21	6 11.4	20.3
140939 2001 VZ_{89}	14.9	X	300.77634	43.62184	80.89283	16.98732	0.2115944	0.20000387	2.8958570	21	12 16.0	17.8
140940 2001 VR_{90}	14.8	X	359.14201	259.47745	94.79490	14.97797	0.2294235	0.19541240	2.9410425	21	10 28.2	18.0
140941 2001 VU_{90}	14.3	X	206.73700	345.16016	83.59873	17.99604	0.1357480	0.18114030	3.0935656	21	6 18.2	19.1
140942 2001 VS_{91}	14.7	X	283.63486	199.42885	168.37176	11.58386	0.0537342	0.18380017	3.0636474	21	7 7.3	19.1
140943 2001 VJ_{93}	14.5	X	144.37491	230.20479	216.75138	25.72275	0.1878394	0.17267549	3.1938579	21	5 16.7	19.8
140944 2001 VU_{93}	15.3	X	206.71408	282.18270	165.74517	13.84204	0.2025129	0.18116142	3.0933252	21	7 8.1	20.7
140945 2001 VW_{93}	14.7	X	193.52984	180.40399	199.47088	18.67402	0.1968368	0.17344387	3.1844181	21	4 8.6	20.0
140946 2001 VO_{94}	15.3	X	336.26190	160.90912	202.35894	18.10684	0.2916909	0.19211211	2.9746295	21	8 27.9	18.1
140947 2001 VM_{95}	14.7	X	117.04169	33.41049	92.49352	16.81814	0.0754795	0.17602584	3.1532018	21	5 27.9	19.4
140948 2001 VC_{98}	14.7	X	304.11683	267.44490	136.13160	14.56534	0.2783675	0.18952062	3.0016847	21	8 21.4	18.1
140949 2001 VK_{98}	14.7	X	252.85132	279.23237	154.64087	14.39868	0.2878731	0.18392935	3.0622127	21	7 23.9	19.8
140950 2001 VP_{99}	14.5	X	213.90692	319.26041	102.43685	17.35791	0.2196940	0.18103170	3.0948027	21	6 13.9	19.9
140951 2001 VZ_{99}	14.1	X	76.70136	30.72039	97.74505	35.87994	0.2004566	0.21747681	2.7385925	21	5 11.6	18.4
140952 2001 VK_{100}	15.9	X	126.50831	252.29151	180.73363	8.65227	0.1198225	0.21982584	2.7190481	21	4 1.8	19.7
140953 2001 VR_{100}	16.4	X	149.10758	8.10679	29.81471	21.24973	0.0884062	0.36754863	1.9301579	21	2 28.2	19.0
140954 2001 VZ_{100}	16.2	X	234.54329	105.96127	0.65244	4.36064	0.2102414	0.18723771	3.0260342	21	8 25.9	20.9
140955 2001 VF_{101}	14.8	X	224.59110	95.66558	259.97330	7.83989	0.0845809	0.17558807	3.1584406	21	4 7.8	19.7
140956 2001 VL_{102}	14.5	X	94.17157	209.14198	248.90065	10.18224	0.0538333	0.16926103	3.2366673	21	3 16.4	19.3
140957 2001 VJ_{103}	14.9	X	305.56408	272.66471	44.83201	16.53419	0.2298810	0.18385837	3.0630008	21	5 6.3	18.7
140958 2001 VT_{103}	14.9	X	321.62008	0.85487	39.54546	10.16953	0.0349265	0.19330634	2.9623656	21	10 15.6	18.8
140959 2001 VD_{104}	15.5	X	241.28853	190.27667	245.26489	10.10669	0.0515323	0.18603471	3.0390655	21	8 7.0	20.0
140960 2001 VL_{105}	15.2	X	198.60789	100.35384	318.81313	3.41917	0.0629890	0.17826196	3.1267772	21	5 31.2	19.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
140961 2001 VZ_{106}	15.0	X	164.99952	300.41568	252.35773	9.58372	0.0553194	0.19226220	2.9730812	21	10 5.5	19.5
140962 2001 VB_{107}	15.0	X	142.75964	75.43039	36.52805	11.02714	0.0261380	0.17774656	3.1328186	21	5 30.5	19.6
140963 2001 VX_{107}	16.1	X	144.45027	144.41863	265.19979	4.41705	0.0407051	0.21997145	2.7178480	21	3 11.4	19.9
140964 2001 VM_{108}	15.2	X	264.11362	20.65923	312.24075	3.39821	0.0881582	0.17702241	3.1413564	21	4 24.1	19.9
140965 2001 VF_{111}	15.5	X	223.55719	192.29819	256.42763	7.95023	0.1069488	0.18404226	3.0609601	21	7 29.8	20.2
140966 2001 VV_{112}	14.9	X	164.42840	31.27638	35.83063	5.55193	0.1706381	0.17400184	3.1776068	21	5 8.9	20.0
140967 2001 VL_{113}	14.8	X	309.93921	116.48554	256.85098	9.14722	0.1301142	0.18788215	3.0191107	21	8 7.9	18.7
140968 2001 VU_{116}	15.0	X	223.06017	345.13182	40.36788	1.55172	0.1961828	0.17787889	3.1312647	21	5 8.9	20.1
140969 2001 VE_{118}	14.9	X	236.15972	5.66760	69.95324	10.73152	0.0707723	0.18270319	3.0758982	21	8 5.6	19.5
140970 2001 VL_{118}	14.6	X	144.04890	14.52143	60.31945	6.94831	0.1103518	0.17043219	3.2218227	21	4 27.2	19.4
140971 2001 VY_{118}	15.1	X	220.91633	342.87207	22.94346	3.50097	0.1124314	0.17515982	3.1635866	21	4 17.8	19.9
140972 2001 VF_{120}	14.8	X	235.08428	12.16224	49.84980	10.40371	0.0781851	0.18259028	3.0771662	21	7 15.7	19.5
140973 2001 VN_{120}	15.0	X	309.10879	247.24256	71.40256	15.32312	0.1478917	0.22813556	2.6526140	21	5 24.3	18.3
140974 2001 VW_{120}	15.1	X	281.61338	359.67637	76.80618	11.46825	0.0952265	0.18783819	3.0195817	21	10 3.3	19.3
140975 2001 VM_{121}	15.7	X	267.13193	261.97739	193.37678	8.90783	0.2257144	0.19099325	2.9862354	21	9 11.2	20.1
140976 2001 VS_{121}	14.8	X	182.19840	358.96982	92.43446	12.71022	0.1305858	0.17990200	3.1077451	21	6 22.9	19.8
140977 2001 VG_{122}	14.4	X	225.24280	203.18753	188.47282	27.47279	0.1394103	0.17896718	3.1185577	21	5 23.1	19.7
140978 2001 VP_{122}	15.2	X	335.28535	170.66891	173.03839	7.63375	0.1962188	0.19126595	2.9833962	21	8 7.8	18.3
140979 2001 VQ_{125}	15.4	X	293.66029	61.29150	236.50323	12.89437	0.1877804	0.17894380	3.1188293	21	3 30.4	20.0
140980 Blanton	15.2	X	52.19132	179.94937	114.70397	14.26312	0.3035839	0.19706464	2.9245805	21	11 14.3	19.6
140981 2001 WS_{2}	15.8	X	218.42363	30.68915	227.93201	6.51175	0.2244853	0.21495066	2.7600071	21	—	—
140982 2001 WJ_{6}	15.8	X	265.73276	343.80224	96.10728	2.08073	0.0533793	0.19125657	2.9834938	21	9 17.7	19.8
140983 2001 WO_{8}	15.5	X	120.19297	292.56223	75.85587	10.10056	0.1752678	0.21234363	2.7825516	21	1 12.7	19.4
140984 2001 WN_{11}	15.3	X	174.30668	292.47726	191.81887	4.35545	0.1076411	0.18219022	3.0816691	21	7 24.7	20.3
140985 2001 WZ_{11}	15.4	X	79.36051	318.93472	180.01511	4.14377	0.1208019	0.17075431	3.2177695	21	5 2.2	19.7
140986 2001 WS_{12}	15.6	X	182.99677	265.11694	127.39365	6.41141	0.1709735	0.22346367	2.6894579	21	4 13.8	20.1
140987 2001 WS_{13}	14.9	X	128.37297	273.67889	202.63337	9.20247	0.0613615	0.17329765	3.1862091	21	5 25.5	19.6
140988 2001 WU_{16}	14.1	X	21.11419	177.58484	31.64929	16.09633	0.1794311	0.17704819	3.1410515	21	5 2.6	17.5
140989 2001 WW_{17}	15.5	X	307.45355	53.63501	337.21655	2.29875	0.1123856	0.19167447	2.9791557	21	9 2.9	19.3
140990 2001 WP_{19}	15.7	X	104.79075	98.77394	223.87307	5.09759	0.1835168	0.20666649	2.8332789	21	—	—
140991 2001 WG_{20}	16.2	X	56.72629	338.48889	16.09693	2.04932	0.0796492	0.20288016	2.8684217	21	12 27.9	20.2
140992 2001 WU_{26}	16.3	X	283.86741	288.17166	130.49705	2.15680	0.0324114	0.19043461	2.9920726	21	9 16.8	20.3
140993 2001 WB_{27}	14.5	X	148.39434	4.66236	83.02044	10.21955	0.0746450	0.17492814	3.1663793	21	5 14.9	19.3
140994 2001 WR_{27}	14.7	X	104.06889	294.65702	188.48198	5.85385	0.1311296	0.17202155	3.2019471	21	5 14.8	19.4
140995 2001 WS_{27}	15.5	X	337.61269	228.92124	132.25078	2.90899	0.1086001	0.19071492	2.9891401	21	9 13.6	18.9
140996 2001 WE_{28}	15.9	X	163.36171	290.89774	93.60324	9.02009	0.1427852	0.22000358	2.7175834	21	3 17.6	20.3
140997 2001 WR_{28}	14.5	X	144.03374	70.82907	74.80480	16.99687	0.1464482	0.17929725	3.1147292	21	7 25.8	19.7
140998 2001 WE_{29}	14.7	X	200.58790	289.52206	108.07562	7.35530	0.1393097	0.17593122	3.1543323	21	5 8.3	19.8
140999 2001 WK_{29}	14.3	X	156.11340	27.24632	91.63063	12.23718	0.1889767	0.17701438	3.1414514	21	7 4.1	19.6
141000 2001 WO_{29}	14.7	X	195.27560	182.02572	186.25877	6.17295	0.1810672	0.17241745	3.1970436	21	3 27.8	19.9
141001 2001 WX_{30}	15.5	X	167.76269	286.77583	104.08859	5.93665	0.0729181	0.22146183	2.7056407	21	3 23.3	19.5
141002 2001 WY_{30}	14.5	X	218.68083	278.02709	104.61027	6.59562	0.1348325	0.17803487	3.1294354	21	5 6.9	19.5
141003 2001 WL_{31}	15.8	X	9.73598	282.01511	92.90450	2.15618	0.1108198	0.19768492	2.9184596	21	11 24.1	19.2
141004 2001 WR_{31}	15.1	X	186.38676	219.46596	222.97164	8.40848	0.0775928	0.17977757	3.1091789	21	6 16.1	19.8
141005 2001 WP_{32}	15.4	X	28.16331	205.01135	130.45955	3.08977	0.1204156	0.19543178	2.9408481	21	11 2.6	19.0
141006 2001 WS_{32}	15.5	X	218.70884	317.13598	136.79613	3.67564	0.0768864	0.23563600	2.5960215	21	8 6.9	19.1
141007 2001 WD_{33}	15.9	X	306.49113	285.61519	102.39416	2.98415	0.1050001	0.18954844	3.0013909	21	8 30.6	19.7
141008 2001 WA_{34}	16.3	X	143.54086	36.11379	118.52534	3.99904	0.1581804	0.23153977	2.6265499	21	8 5.8	20.3
141009 2001 WQ_{34}	15.0	X	343.93580	262.90498	92.98845	9.92217	0.1061077	0.19067295	2.9895788	21	9 21.9	18.7
141010 2001 WT_{35}	15.5	X	212.65643	241.05392	215.77416	6.83389	0.1532212	0.18287521	3.0739691	21	7 25.7	20.5
141011 2001 WN_{38}	15.1	X	197.50817	240.64312	174.82177	4.36464	0.1659817	0.17692031	3.1425648	21	5 24.9	20.3
141012 2001 WD_{42}	16.0	X	161.16234	133.07221	117.90966	3.07182	0.0282446	0.20161185	2.8804390	21	12 16.7	20.1
141013 2001 WO_{43}	14.9	X	1.03334	347.69221	217.00793	14.89029	0.0415715	0.17204136	3.2017012	21	3 25.1	19.4
141014 2001 WJ_{44}	16.1	X	153.32687	233.12932	67.68635	3.42891	0.0181285	0.20709386	2.8293797	21	—	—
141015 2001 WT_{44}	15.4	X	237.61890	247.23713	217.50811	7.99012	0.0621416	0.18869852	3.0103966	21	9 8.7	19.9
141016 2001 WS_{45}	15.6	X	168.97427	99.29557	53.73822	1.82902	0.1016676	0.18548412	3.0450766	21	8 25.9	20.2
141017 2001 WY_{45}	15.7	X	331.73280	150.08527	237.15928	3.20204	0.0832818	0.19327261	2.9627102	21	10 8.0	19.4
141018 2001 WC_{47}	18.9	X	210.79386	101.38813	91.61831	2.86899	0.2413702	0.59583636	1.3986790	21	—	—
141019 2001 WX_{47}	15.1	X	150.81791	266.93859	82.64804	13.36687	0.3239423	0.21689117	2.7435200	21	2 5.9	20.0
141020 2001 WY_{50}	15.9	X	229.74790	166.33448	77.27458	4.08995	0.1027769	0.20948931	2.8077696	21	—	—
141021 2001 WQ_{51}	15.5	X	340.08852	32.40941	21.24607	1.95785	0.0630357	0.19949344	2.9007945	21	11 25.7	19.1
141022 2001 WS_{51}	15.7	X	246.61665	37.76789	304.96888	0.40895	0.2113072	0.18015789	3.1048016	21	4 7.3	20.6
141023 2001 WV_{51}	15.9	X	47.41568	37.95416	334.27515	1.17464	0.0817868	0.20375928	2.8601652	21	—	—
141024 2001 WA_{52}	14.9	X	268.67344	257.58334	31.39565	5.02468	0.0419853	0.17273862	3.1930796	21	3 16.2	19.5
141025 2001 WR_{52}	14.7	X	75.02490	136.34924	40.46287	17.43878	0.1562962	0.17707266	3.1407621	21	6 15.5	19.2
141026 2001 WH_{55}	15.9	X	197.78859	68.54371	232.24118	4.54524	0.0892818	0.21466977	2.7624142	21	1 2.7	20.1
141027 2001 WR_{55}	15.6	X	64.86629	218.98997	45.71758	2.68574	0.0550347	0.18986653	2.9980378	21	9 12.9	19.8
141028 2001 WG_{58}	15.9	X	202.16616	24.24875	244.08950	3.96026	0.0233601	0.20992494	2.8038838	21	—	—
141029 2001 WD_{59}	16.2	X	52.03854	97.26458	258.52458	1.15297	0.0725193	0.20123348	2.8840484	21	12 22.4	20.0
141030 2001 WN_{59}	14.9	X	219.57719	68.42738	242.52362	6.78696	0.0783681	0.16821076	3.2501261	21	2 10.5	20.0
141031 2001 WT_{60}	15.0	X	256.78378	281.50177	41.43487	4.96904	0.0996378	0.17545869	3.1599931	21	4 5.3	19.8
141032 2001 WG_{62}	15.1	X	179.72966	118.98583	239.46194	6.17071	0.1186943	0.16951121	3.2334819	21	2 27.3	20.3
141033 2001 WS_{63}	15.9	X	311.62567	128.23091	245.08687	0.92292	0.0732473	0.18772151	3.0208328	21	8 20.8	19.8
141034 2001 WJ_{66}	15.6	X	112.52002	48.68284	180.92495	3.81316	0.0561257	0.19288102	2.9667188	21	9 26.2	19.8
141035 2001 WS_{66}	15.5	X	123.79512	288.13069	201.72942	4.80814	0.1149561	0.17819897	3.1275140	21	6 11.3	20.2
141036 2001 WU_{67}	15.8	X	126.90223	177.02321	58.86047	2.76853	0.0709190	0.19521365	2.9430383	21	10 22.1	20.2
141037 2001 WZ_{70}	15.4	X	55.57370	7.01693	226.89865	7.32953	0.0781982	0.18379249	3.0637327	21	7 21.9	19.6
141038 2001 WW_{72}	15.8	X	177.78141	334.61973	167.63820	2.45385	0.1394222	0.18451452	3.0557350	21	8 19.8	20.7
141039 2001 WO_{73}	16.0	X	51.05439	181.16572	201.18499	1.55012	0.0090646	0.20382331	2.8595661	21	—	—
141040 2001 WM_{75}	15.1	X	60.32371	357.26891	230.36299	9.83261	0.0609998	0.18291621	3.0735097	21	7 17.3	19.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
141041 2001 WW_{75}	15.9	X	200.27636	321.18064	166.90904	2.28609	0.0214155	0.18804584	3.0173584	21	8 31.2	20.2
141042 2001 WS_{76}	15.1	X	81.87611	147.36744	62.89251	7.87209	0.0667091	0.18277813	3.0750574	21	7 28.8	19.4
141043 2001 WT_{79}	15.3	X	125.02102	66.79667	67.51047	5.43705	0.1143656	0.17639270	3.1488282	21	6 17.7	20.0
141044 2001 WL_{80}	15.9	X	281.61789	233.10947	107.87658	2.74838	0.1028264	0.18067792	3.0988413	21	5 25.1	20.3
141045 2001 WE_{83}	16.0	X	295.22394	291.38604	148.85407	0.94310	0.0448135	0.19446949	2.9505415	21	10 28.0	19.9
141046 2001 WR_{89}	15.1	X	167.38128	237.94867	229.15178	9.15568	0.1944544	0.17731651	3.1378819	21	6 28.7	20.4
141047 2001 WY_{90}	15.7	X	186.49949	56.27173	287.31015	7.86741	0.2578827	0.22007047	2.7170327	21	2 15.3	20.5
141048 2001 WR_{91}	14.8	X	153.30993	59.15189	15.66264	5.60269	0.1698338	0.17277053	3.1926865	21	5 7.6	19.9
141049 2001 WM_{97}	15.2	X	257.32091	228.53594	133.49512	8.08702	0.1606629	0.18247496	3.0784625	21	5 17.8	20.0
141050 2001 WN_{99}	15.1	X	177.01632	296.31428	176.10174	15.22697	0.1102358	0.18087975	3.0965356	21	7 12.2	20.2
141051 2001 WW_{101}	15.4	X	234.03015	154.07940	171.60974	0.60453	0.1358024	0.17286679	3.1915011	21	3 13.0	20.5
141052 2001 XR_{1}	17.4	X	291.88593	304.14936	291.52041	17.66022	0.5500175	0.70908020	1.2454868	21	—	—
141053 2001 XT_{1}	18.7	X	162.10055	31.32916	316.25000	2.73136	0.5795824	0.52147379	1.5286723	21	1 28.7	19.9
141054 2001 XW_{2}	16.2	X	35.46993	93.09175	30.13199	21.52700	0.0846813	0.35876222	1.9615449	21	—	—
141055 2001 XT_{3}	16.2	X	330.79234	224.86128	279.90506	17.77024	0.0672158	0.35657175	1.9695700	21	—	—
141056 2001 XV_{4}	17.2	X	271.58706	300.51415	259.18676	28.86137	0.4442518	0.40245285	1.8168792	21	—	—
141057 2001 XS_{5}	14.9	X	216.49595	261.02458	148.97435	14.79519	0.1520026	0.17968322	3.1102672	21	6 6.4	20.1
141058 2001 XE_{6}	15.2	X	125.89327	9.48616	107.17313	2.34453	0.1626035	0.17225989	3.1989928	21	6 2.2	20.2
141059 2001 XQ_{6}	15.3	X	152.39921	260.44011	195.88407	14.44378	0.1382043	0.17499004	3.1656325	21	6 1.9	20.5
141060 2001 XB_{7}	15.4	X	307.41281	275.60656	246.79310	6.36116	0.1422153	0.20686762	2.8314422	21	—	—
141061 2001 XN_{9}	15.1	X	182.64173	75.78496	5.72804	4.67185	0.1628990	0.17695009	3.1422123	21	6 10.9	20.3
141062 2001 XS_{10}	16.0	X	212.08083	250.12855	210.54808	0.76872	0.1084843	0.18490723	3.0514068	21	8 3.6	20.8
141063 2001 XZ_{11}	14.7	X	244.84820	152.16431	328.06422	8.79121	0.2086486	0.18972417	2.9995374	21	9 18.4	19.3
141064 2001 XD_{12}	15.9	X	57.16017	211.10051	265.32843	18.90028	0.0966075	0.36608951	1.9352832	21	1 3.6	17.2
141065 2001 XS_{12}	15.3	X	21.27636	44.05623	288.41455	9.48059	0.0961516	0.19296444	2.9658638	21	10 9.6	19.3
141066 2001 XF_{13}	14.8	X	115.33965	97.45418	44.13332	14.35994	0.1241504	0.17237198	3.1976059	21	6 15.9	19.7
141067 2001 XV_{13}	15.0	X	137.66577	182.57873	56.26576	9.62423	0.0384632	0.19216391	2.9740950	21	11 4.9	19.2
141068 2001 XR_{14}	14.4	X	152.59905	40.94713	64.22728	22.84236	0.1119898	0.17474496	3.1685917	21	6 8.4	19.4
141069 2001 XX_{14}	15.0	X	119.44270	119.87745	62.75258	11.94913	0.1163774	0.17904505	3.1176535	21	8 16.1	19.9
141070 2001 XN_{15}	14.4	X	179.38033	36.46100	40.06575	5.23750	0.2010270	0.17564414	3.1577684	21	6 2.3	19.8
141071 2001 XM_{17}	14.9	X	306.42695	7.33656	49.24059	9.68678	0.0601499	0.19012019	2.9953705	21	10 13.9	18.8
141072 2001 XF_{19}	14.8	X	265.84961	13.53400	53.33738	10.23753	0.0871288	0.18457192	3.0551014	21	8 30.9	19.2
141073 2001 XW_{21}	15.7	X	98.97797	117.31648	326.28178	6.73490	0.1986887	0.21430658	2.7655343	21	3 21.6	19.5
141074 2001 XA_{22}	14.4	X	260.23385	339.34634	66.15911	11.71546	0.2011646	0.18203328	3.0834401	21	7 7.2	19.1
141075 2001 XT_{22}	14.8	X	236.97009	3.81526	55.00144	10.72657	0.0858247	0.18076144	3.0978867	21	7 12.5	19.5
141076 2001 XE_{25}	15.3	X	33.81942	341.81213	79.67558	9.92655	0.3056400	0.20335003	2.8640014	21	—	—
141077 2001 XB_{27}	15.0	X	199.70328	67.61557	49.78083	7.28277	0.2038727	0.17749397	3.1357900	21	8 10.2	20.3
141078 2001 XQ_{30}	18.8	X	207.65765	270.78758	234.65278	11.46480	0.4506203	0.38740557	1.8636262	21	9 7.5	22.4
141079 2001 XS_{30}	17.7	X	84.59157	0.88193	251.45310	28.53157	0.8281524	0.78435019	1.1644729	21	12 8.8	20.0
141080 2001 XV_{33}	15.2	X	275.65994	134.38977	248.26916	8.16169	0.0909022	0.18264317	3.0765721	21	7 10.2	19.6
141081 2001 XF_{34}	15.1	X	284.74579	78.62273	354.82623	9.84362	0.0768969	0.19112535	2.9848592	21	9 28.9	19.1
141082 2001 XT_{34}	15.0	X	224.25876	144.05964	329.08563	8.81431	0.0828738	0.18629795	3.0362020	21	9 2.9	19.6
141083 2001 XE_{35}	15.1	X	248.67881	94.23211	304.71430	8.33711	0.0969844	0.18133056	3.0914013	21	6 29.0	19.6
141084 2001 XJ_{35}	14.9	X	195.66248	111.25508	330.82078	8.99386	0.1103993	0.18047761	3.1011337	21	6 25.5	19.8
141085 2001 XQ_{35}	14.9	X	312.24862	323.99058	12.57201	10.62114	0.1357411	0.18493773	3.0510713	21	6 25.8	18.9
141086 2001 XQ_{36}	15.0	X	330.01893	358.53260	28.63574	10.78276	0.1046858	0.19174250	2.9784510	21	10 7.3	18.5
141087 2001 XK_{37}	15.3	X	242.94622	139.01798	325.59240	8.53019	0.1045035	0.18886420	3.0086358	21	9 10.2	19.8
141088 2001 XR_{39}	14.5	X	231.06975	305.41046	62.90038	23.05654	0.1365597	0.17501359	3.1653485	21	5 4.7	19.6
141089 2001 XA_{40}	15.0	X	249.54224	8.87855	44.44017	13.63078	0.2659539	0.18326801	3.0695751	21	6 28.8	20.2
141090 2001 XJ_{42}	14.4	X	167.88880	84.45162	57.77793	16.42346	0.2309444	0.17745987	3.1361918	21	8 18.1	20.1
141091 2001 XZ_{42}	14.6	X	217.58591	101.30754	297.71852	24.43340	0.2656779	0.17701990	3.1413861	21	5 13.5	20.5
141092 2001 XJ_{43}	15.1	X	250.44070	117.20296	337.82665	9.14311	0.1134772	0.18715546	3.0269207	21	9 7.0	19.4
141093 2001 XS_{44}	14.7	X	275.19138	344.77915	50.20089	11.56974	0.0641849	0.18084481	3.0969344	21	8 3.7	19.2
141094 2001 XL_{45}	15.2	X	183.19686	76.10663	355.11606	8.46558	0.0887972	0.17420370	3.1751516	21	5 28.2	20.2
141095 2001 XW_{46}	14.5	X	139.51741	72.83696	65.43513	15.25715	0.1767950	0.17308266	3.1888469	21	7 13.1	19.8
141096 2001 XB_{48}	16.5	X	261.22994	220.29171	325.18138	12.32250	0.1054351	0.34913235	1.9974503	21	—	—
141097 2001 XN_{50}	14.5	X	274.63389	254.02459	72.05128	17.34472	0.0972911	0.17715751	3.1397592	21	5 3.5	19.2
141098 2001 XO_{52}	14.9	X	272.44335	318.11280	76.40797	11.36988	0.0762630	0.18442106	3.0567672	21	7 26.7	19.2
141099 2001 XJ_{53}	15.4	X	301.97629	176.64572	208.98170	1.80135	0.0942226	0.18699692	3.0286314	21	8 19.8	19.3
141100 2001 XV_{53}	15.1	X	243.45331	250.72686	147.27427	2.58503	0.1991039	0.18174413	3.0867097	21	6 11.2	20.0
141101 2001 XY_{53}	15.1	X	172.07681	205.13954	216.68141	3.40935	0.1537527	0.17390075	3.1788382	21	5 9.5	20.2
141102 2001 XE_{54}	15.4	X	1.98859	205.06262	188.17431	1.60359	0.0930928	0.19682784	2.9269257	21	12 3.8	18.9
141103 2001 XM_{56}	15.6	X	303.38312	210.98065	219.74208	3.24618	0.1535072	0.19254757	2.9701430	21	10 14.2	18.9
141104 2001 XB_{57}	15.2	X	309.57290	98.16154	261.59707	0.24472	0.1747712	0.18605421	3.0388531	21	7 16.9	18.7
141105 2001 XK_{57}	14.6	X	236.92091	323.16147	86.87761	13.43998	0.1403452	0.18113771	3.0935950	21	6 24.7	19.5
141106 2001 XP_{57}	14.2	X	184.49121	331.22922	85.25659	18.83745	0.1519785	0.17481071	3.1677971	21	5 18.3	19.5
141107 2001 XF_{58}	15.0	X	202.42509	8.85093	81.18096	11.82548	0.0988916	0.18000650	3.1065422	21	7 12.5	19.9
141108 2001 XG_{58}	15.2	X	247.88175	324.32689	60.08169	1.75692	0.1838517	0.18027173	3.1034944	21	5 30.9	20.0
141109 2001 XZ_{59}	15.0	X	124.61391	326.63042	134.09430	1.54173	0.2388277	0.16960210	3.2323266	21	5 19.9	20.2
141110 2001 XY_{62}	15.2	X	31.23324	236.98748	188.00298	1.83001	0.2216439	0.20353493	2.8622666	21	—	—
141111 2001 XR_{64}	15.1	X	320.11534	259.44901	131.89798	1.91730	0.3531289	0.18989491	2.9977391	21	8 23.1	17.8
141112 2001 XV_{65}	15.3	X	227.17893	167.72651	246.01037	3.26472	0.1223228	0.17758810	3.1346819	21	6 20.9	20.1
141113 2001 XN_{69}	15.8	X	297.27883	151.20881	250.13764	2.35207	0.1093101	0.18878542	3.0094728	21	8 31.3	19.7
141114 2001 XX_{72}	15.1	X	119.39963	227.62128	192.43134	9.51227	0.1585332	0.21708036	2.7419257	21	3 11.4	19.0
141115 2001 XO_{73}	15.3	X	161.03482	256.02937	237.11131	9.85124	0.0832494	0.18096075	3.0956115	21	7 19.9	20.2
141116 2001 XU_{73}	15.7	X	22.66265	289.85290	205.44538	4.50556	0.1068793	0.21246715	2.7814731	21	1 18.5	18.9
141117 2001 XJ_{80}	15.0	X	305.18680	262.02635	126.04255	9.37907	0.1262616	0.18810551	3.0167202	21	8 26.2	18.7
141118 2001 XW_{80}	15.1	X	279.08515	299.44253	86.04895	11.22932	0.0226660	0.18239475	3.0793649	21	7 31.6	19.5
141119 2001 XQ_{81}	15.2	X	109.64366	54.88904	134.17458	10.36106	0.0515672	0.18025552	3.1036805	21	7 31.9	19.7
141120 2001 XT_{81}	15.8	X	208.33406	277.57955	150.37098	2.40799	0.0792031	0.23009915	2.6375015	21	6 20.9	19.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
141121 2001 XB_{82}	16.0	X	326.36348	263.63588	129.22819	3.47505	0.1325892	0.19199829	2.9758050	21	10 7.1	19.4
141122 2001 XC_{82}	14.7	X	81.18775	104.19900	91.07324	11.54669	0.0538367	0.17846391	3.1244179	21	7 4.6	19.1
141123 2001 XM_{82}	16.1	X	155.06851	287.96472	155.10232	2.95905	0.0521617	0.22432584	2.6825625	21	5 10.7	19.9
141124 2001 XU_{82}	16.3	X	255.42190	188.25741	191.14270	6.21745	0.1984130	0.28138562	2.3064008	21	5 27.9	19.6
141125 2001 XJ_{83}	14.8	X	283.38548	94.26915	242.76199	14.51755	0.2515691	0.18140783	3.0905233	21	4 29.7	19.5
141126 2001 XT_{83}	15.2	X	165.90857	287.13004	163.00829	5.31699	0.1394686	0.17524054	3.1626150	21	6 6.9	20.3
141127 2001 XC_{85}	14.8	X	108.57233	356.13403	117.23194	8.00089	0.1719739	0.16801183	3.2526909	21	5 14.7	19.8
141128 2001 XR_{88}	15.3	X	177.40130	197.00164	227.83645	4.07544	0.1579307	0.17325352	3.1867500	21	5 17.9	20.4
141129 2001 XA_{90}	15.2	X	181.10668	94.51490	57.44158	18.35438	0.1148627	0.18667746	3.0320856	21	9 15.2	20.3
141130 2001 XE_{90}	15.1	X	191.04710	290.23658	241.26529	10.20995	0.0275343	0.19290649	2.9664577	21	10 10.9	19.5
141131 2001 XG_{90}	16.5	X	43.63188	190.91140	59.63259	7.76351	0.0646127	0.28416574	2.2913332	21	8 2.7	19.1
141132 2001 XL_{91}	14.9	X	165.03756	341.29437	57.73461	12.00875	0.0886914	0.17155252	3.2077806	21	4 7.5	19.9
141133 2001 XM_{91}	15.1	X	88.07956	0.48508	247.51831	9.59921	0.0540111	0.18936295	3.0033506	21	9 14.9	19.5
141134 2001 XO_{91}	14.9	X	151.52640	90.05860	46.60794	2.00463	0.1219776	0.18014991	3.1048933	21	7 19.2	19.7
141135 2001 XD_{92}	14.9	X	344.39044	197.54242	62.66643	17.22222	0.0300883	0.17628993	3.1500520	21	5 16.3	19.1
141136 2001 XX_{92}	15.3	X	281.85329	90.23227	252.56137	9.96387	0.1109893	0.18076728	3.0978199	21	5 25.8	19.8
141137 2001 XY_{93}	15.2	X	212.96642	48.40119	42.14496	10.05276	0.0673117	0.18372533	3.0644792	21	7 29.2	19.9
141138 2001 XC_{94}	14.9	X	171.40684	184.47902	260.48771	13.55707	0.2263691	0.17653565	3.1471282	21	6 7.0	20.2
141139 2001 XQ_{95}	14.8	X	198.57372	17.20165	63.58016	2.28384	0.1673516	0.17934014	3.1142326	21	6 24.5	20.0
141140 2001 XZ_{95}	15.6	X	207.42782	103.44696	53.18055	1.84231	0.2680702	0.18757687	3.0223855	21	9 26.9	20.8
141141 2001 XH_{96}	14.8	X	276.08495	295.63290	73.54333	11.58470	0.1088882	0.18192811	3.0846283	21	6 21.5	19.2
141142 2001 XF_{97}	14.7	X	185.39763	136.33586	264.71935	21.00745	0.0511155	0.22291400	2.6938773	21	4 14.4	19.1
141143 2001 XL_{98}	15.0	X	314.01986	132.64788	266.29486	9.02959	0.1109892	0.19012005	2.9953720	21	9 19.0	18.9
141144 2001 XU_{99}	14.7	X	227.67242	334.53636	93.57878	6.64061	0.1509038	0.17958223	3.1114331	21	7 7.1	19.5
141145 2001 XQ_{104}	15.9	X	322.34569	250.39455	62.32178	1.96216	0.1842507	0.18436457	3.0573916	21	6 2.4	19.6
141146 2001 XU_{105}	14.4	X	212.16338	124.49495	250.57957	14.51948	0.0851012	0.17693826	3.1423523	21	4 18.1	19.4
141147 2001 XT_{106}	15.1	X	235.21940	50.25546	277.89481	10.35949	0.1805346	0.22319934	2.6915809	21	3 4.2	19.8
141148 2001 XV_{106}	15.7	X	227.96594	194.01136	237.60532	3.37979	0.0988190	0.18309980	3.0714549	21	7 15.6	20.2
141149 2001 XB_{107}	14.9	X	183.78054	49.59127	320.86384	4.84884	0.1665738	0.17143226	3.2092806	21	3 19.0	20.2
141150 2001 XK_{109}	15.1	X	177.42640	163.11665	296.47290	8.98144	0.0644498	0.17886689	3.1197233	21	6 28.5	19.7
141151 2001 XG_{110}	15.1	X	241.73375	349.71039	89.23239	9.59274	0.0279186	0.18638388	3.0352687	21	8 22.6	19.5
141152 2001 XX_{111}	14.7	X	184.12592	226.92509	237.75143	15.11032	0.0805808	0.18024012	3.1038573	21	7 8.6	19.6
141153 2001 XB_{112}	15.8	X	230.06294	304.40887	130.00241	3.29602	0.2013952	0.18260356	3.0770169	21	7 12.8	20.8
141154 2001 XZ_{113}	14.5	X	281.69827	278.87966	66.75407	17.23172	0.2467564	0.18124842	3.0923352	21	5 13.1	19.2
141155 2001 XN_{114}	15.1	X	267.56256	349.84251	37.62819	4.68011	0.2936060	0.18364202	3.0654061	21	6 10.7	20.0
141156 2001 XN_{116}	15.7	X	161.62648	98.01015	347.70851	4.09710	0.1594804	0.17391845	3.1786225	21	5 27.9	20.8
141157 2001 XR_{120}	15.5	X	351.76658	262.78175	111.32838	4.42342	0.0983973	0.19532284	2.9419415	21	10 26.2	19.0
141158 2001 XZ_{120}	15.3	X	169.16771	52.30340	94.55745	2.80287	0.1014215	0.18456594	3.0551673	21	8 18.5	20.0
141159 2001 XF_{122}	15.8	X	344.91564	132.95989	219.79399	3.40923	0.1014797	0.19080430	2.9882065	21	9 12.2	19.5
141160 2001 XS_{124}	15.3	X	345.05315	143.85954	177.79156	4.48640	0.0715254	0.18752463	3.0229468	21	8 1.9	19.2
141161 2001 XE_{125}	15.5	X	106.76796	60.11163	102.66825	2.48914	0.0978935	0.17828278	3.1265338	21	7 1.1	20.0
141162 2001 XL_{127}	15.2	X	70.17105	83.01097	93.57632	2.90677	0.1166996	0.17399439	3.1776975	21	6 5.3	19.3
141163 2001 XY_{128}	15.4	X	357.06135	196.22423	121.29555	3.01508	0.2550151	0.18981078	2.9986248	21	8 21.8	18.0
141164 2001 XH_{136}	16.1	X	321.17985	321.49592	73.17298	1.67567	0.1585822	0.19132235	2.9828099	21	9 27.3	19.3
141165 2001 XT_{139}	14.9	X	192.21411	277.84049	99.95124	2.92376	0.0860678	0.17078098	3.2174345	21	4 6.3	19.8
141166 2001 XL_{142}	15.8	X	221.66153	346.99128	132.34718	1.66669	0.0578014	0.18717109	3.0267522	21	9 11.9	20.3
141167 2001 XT_{145}	15.0	X	83.30269	69.84018	84.24424	6.20584	0.1055918	0.17117809	3.2124566	21	5 24.1	19.5
141168 2001 XV_{145}	15.8	X	322.44085	329.09669	259.17269	3.88730	0.0981467	0.21602638	2.7508370	21	2 17.5	19.4
141169 2001 XQ_{146}	15.1	X	207.92620	124.81284	249.81150	3.69024	0.2015898	0.17404996	3.1770211	21	4 12.7	20.5
141170 2001 XX_{147}	15.0	X	40.72462	43.10095	239.32275	7.74539	0.0758831	0.18527650	3.0473511	21	8 31.5	19.2
141171 2001 XT_{148}	15.7	X	211.09644	302.36056	125.47511	3.79221	0.0810759	0.17881753	3.1202974	21	6 24.5	20.5
141172 2001 XL_{150}	15.6	X	87.28767	189.33752	86.59550	3.24577	0.0499595	0.19069194	2.9893802	21	10 24.3	19.8
141173 2001 XQ_{151}	15.8	X	152.99908	195.15074	233.94311	1.35069	0.0712690	0.22131580	2.7068308	21	4 20.7	19.7
141174 2001 XS_{151}	15.4	X	314.73917	303.69792	93.92823	2.99482	0.1005305	0.18942828	3.0026600	21	9 26.2	19.0
141175 2001 XT_{151}	15.5	X	245.92956	144.32713	259.09397	3.80483	0.1590996	0.18129884	3.0917618	21	6 23.9	20.3
141176 2001 XV_{151}	15.4	X	26.56946	359.62317	85.13696	7.39292	0.0639590	0.20539838	2.8449286	21	—	—
141177 2001 XD_{152}	14.9	X	216.26962	84.46838	82.75755	3.07908	0.2131871	0.19022712	2.9942479	21	10 20.9	19.8
141178 2001 XH_{153}	14.8	X	180.26017	77.48673	96.91013	12.48396	0.0628373	0.18797645	3.0181009	21	10 9.4	19.5
141179 2001 XR_{159}	14.9	X	253.09329	312.55515	94.12299	10.35152	0.0716385	0.18069979	3.0985913	21	7 17.2	19.3
141180 2001 XF_{160}	14.4	X	105.88587	274.41482	267.27578	14.52271	0.1735814	0.17459272	3.1704333	21	7 28.7	19.4
141181 2001 XT_{168}	15.0	X	179.21567	262.91555	186.62811	0.47188	0.1593298	0.17617898	3.1513742	21	6 18.1	20.1
141182 2001 XC_{169}	14.7	X	81.20195	69.84878	100.35706	6.83530	0.1104717	0.17167984	3.2061944	21	6 11.3	19.1
141183 2001 XP_{171}	15.8	X	105.11265	260.68289	115.51416	2.65004	0.0578909	0.20706461	2.8296462	21	—	—
141184 2001 XA_{173}	14.9	X	109.98051	258.09001	254.11399	4.10528	0.0809294	0.17296960	3.1902363	21	6 19.4	19.5
141185 2001 XB_{173}	15.7	X	29.34196	250.24295	242.11255	3.10083	0.1449457	0.20976118	2.8053430	21	1 25.9	18.8
141186 2001 XD_{175}	15.5	X	153.85095	51.46053	113.15333	2.49828	0.1639048	0.17848609	3.1241590	21	8 26.2	20.5
141187 2001 XE_{175}	14.7	X	52.34563	146.15602	106.85930	7.70649	0.0556224	0.17921162	3.1157214	21	8 11.6	18.9
141188 2001 XH_{176}	15.2	X	242.33846	145.89505	275.51825	5.72038	0.2296766	0.18154587	3.0889566	21	7 5.7	20.0
141189 2001 XV_{179}	15.1	X	161.01074	5.40058	110.14044	10.40396	0.0400722	0.17513206	3.1639209	21	6 28.9	19.7
141190 2001 XV_{181}	15.6	X	52.11702	5.87869	115.33398	6.16740	0.1118515	0.21113747	2.7931387	21	2 20.9	18.8
141191 2001 XA_{182}	15.1	X	192.09388	337.28054	133.71860	6.98652	0.1369074	0.17797741	3.1301090	21	7 25.9	20.0
141192 2001 XM_{183}	15.7	X	276.20174	201.91372	216.06774	3.06666	0.2685080	0.18514764	3.0487648	21	7 30.7	20.1
141193 2001 XD_{184}	15.2	X	197.99693	323.76623	125.00135	11.59191	0.1479731	0.17669867	3.1451923	21	7 4.3	20.4
141194 2001 XE_{186}	15.5	X	218.10464	214.24980	192.22276	2.63595	0.2268695	0.17726303	3.1385131	21	5 28.9	20.8
141195 2001 XS_{188}	15.6	X	276.06289	277.62001	112.74457	6.21603	0.1822994	0.18179510	3.0861327	21	7 8.4	19.9
141196 2001 XX_{189}	15.4	X	144.35131	35.09421	146.74345	4.05259	0.0502747	0.18043587	3.1016120	21	9 2.0	20.0
141197 2001 XV_{192}	16.2	X	155.10079	292.28864	143.37195	2.46025	0.0589052	0.21926785	2.7236591	21	5 1.9	20.1
141198 2001 XR_{199}	15.6	X	120.73359	267.09754	139.89242	5.96655	0.0149110	0.20940288	2.8085421	21	2 7.3	19.3
141199 2001 XF_{203}	15.5	X	119.18969	353.76213	102.95857	10.00565	0.0327163	0.22256108	2.6967244	21	4 15.8	19.3
141200 2001 XP_{203}	15.1	X	78.99070	245.16136	95.77511	13.74521	0.1141369	0.20222843	2.8745811	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
141201 2001 XD_{206}	14.7	X	185.28275	281.94624	96.38791	16.00422	0.1366188	0.17119445	3.2122519	21	4 7.6	20.1
141202 2001 XV_{207}	15.1	X	246.67306	214.20323	234.50725	10.98872	0.1123159	0.18578113	3.0418303	21	8 21.5	19.8
141203 2001 XB_{208}	15.1	X	262.52481	194.33280	226.96078	10.47881	0.0978240	0.18503597	3.0499913	21	8 8.5	19.6
141204 2001 XJ_{208}	15.8	X	141.98204	291.21766	119.86872	6.28401	0.0581150	0.21782950	2.7356357	21	3 17.7	19.7
141205 2001 XP_{209}	15.0	X	334.19923	226.27169	121.53162	10.12589	0.0981527	0.18593618	3.0401391	21	8 21.5	18.7
141206 2001 XX_{209}	14.9	X	178.48713	315.86941	117.66284	9.82510	0.0850879	0.17489427	3.1667881	21	5 30.0	19.8
141207 2001 XF_{210}	14.5	X	114.43276	109.12910	96.03649	29.67211	0.3357051	0.22919013	2.6444708	21	10 7.8	19.9
141208 2001 XG_{212}	14.9	X	283.18436	305.14981	97.62564	17.21989	0.1268064	0.18597666	3.0396979	21	8 14.8	19.2
141209 2001 XO_{212}	14.8	X	253.19141	172.61516	238.31153	8.11857	0.1407048	0.18217066	3.0818898	21	7 11.9	19.5
141210 2001 XS_{212}	14.0	X	75.29856	91.52016	83.74836	26.39400	0.2042354	0.17251474	3.1958415	21	6 22.6	18.4
141211 2001 XJ_{218}	15.2	X	265.54281	41.73143	294.64935	3.13637	0.2182804	0.18138032	3.0908358	21	4 14.8	20.2
141212 2001 XK_{218}	15.6	X	353.21540	320.73597	32.04689	2.14659	0.0670095	0.19239236	2.9717402	21	9 27.2	19.3
141213 2001 XY_{218}	15.4	X	201.47987	63.30041	36.23663	3.37484	0.0642386	0.18370164	3.0647427	21	7 25.7	19.9
141214 2001 XC_{219}	15.7	X	144.06795	234.11060	47.25868	2.70866	0.0355439	0.20280512	2.8691292	21	—	—
141215 2001 XO_{219}	14.7	X	276.64759	249.12040	38.72648	10.18073	0.1558513	0.17303608	3.1894192	21	3 12.8	19.6
141216 2001 XC_{220}	15.3	X	347.75865	266.19756	48.18891	10.42412	0.0929337	0.18582936	3.0413039	21	7 31.3	19.2
141217 2001 XN_{220}	15.1	X	351.34183	35.89509	285.42436	5.08835	0.2433772	0.19005480	2.9960576	21	8 9.9	17.8
141218 2001 XV_{220}	14.8	X	142.82028	230.51967	255.82525	12.25359	0.0898930	0.17810564	3.1286065	21	6 24.4	19.6
141219 2001 XC_{221}	15.8	X	26.81808	308.76379	238.16077	3.67560	0.0285372	0.22358409	2.6884922	21	4 1.8	19.3
141220 2001 XW_{221}	15.5	X	207.74797	96.76533	272.84324	5.01672	0.0273487	0.22344617	2.6895984	21	4 4.3	19.4
141221 2001 XX_{223}	15.1	X	113.07824	107.96179	63.27493	14.95440	0.0824526	0.17966317	3.1104986	21	7 18.9	19.8
141222 2001 XM_{225}	15.8	X	314.96718	59.16228	40.37219	1.57416	0.0956624	0.19878110	2.9077205	21	12 16.6	19.3
141223 2001 XZ_{225}	15.6	X	279.68269	47.45365	14.93660	0.91495	0.0066590	0.18882351	3.0090680	21	9 18.8	19.7
141224 2001 XK_{226}	15.5	X	55.43554	287.86753	22.26685	2.82455	0.1171538	0.19423219	2.9529442	21	11 5.1	19.5
141225 2001 XH_{227}	15.0	X	253.17237	260.83781	49.03318	5.19518	0.1046911	0.17099393	3.2147626	21	3 17.9	19.8
141226 2001 XJ_{230}	15.5	X	153.10262	78.25045	67.19584	0.45351	0.1081010	0.18006029	3.1059234	21	7 30.7	20.3
141227 2001 XD_{232}	15.7	X	70.06035	319.72849	46.78083	2.71533	0.0794504	0.20277233	2.8694385	21	—	—
141228 2001 XA_{233}	15.8	X	185.93367	192.94759	288.68609	4.11372	0.1157547	0.18117388	3.0931833	21	8 2.4	20.7
141229 2001 XE_{234}	15.4	X	145.46527	51.32211	40.64712	5.22221	0.1501015	0.17293685	3.1906391	21	5 20.3	20.4
141230 2001 XS_{234}	15.4	X	317.07651	101.50575	272.89854	8.16921	0.0790505	0.18724979	3.0259041	21	8 26.1	19.4
141231 2001 XF_{235}	14.7	X	298.43187	256.91575	72.95051	13.54703	0.0693611	0.17890478	3.1192828	21	6 6.3	18.8
141232 2001 XY_{236}	16.2	X	100.47861	84.93204	333.59459	1.26937	0.0982452	0.21311735	2.7758128	21	2 7.5	19.7
141233 2001 XC_{237}	15.1	X	211.14020	72.87090	65.71785	9.29065	0.0278233	0.18834169	3.0141977	21	10 1.1	19.5
141234 2001 XC_{245}	14.7	X	322.34734	254.37005	101.19628	12.38924	0.1471501	0.18970457	2.9997439	21	8 8.2	18.3
141235 2001 XG_{246}	14.8	X	174.00495	217.10592	188.11170	10.92893	0.1403698	0.17322246	3.1871310	21	4 22.3	19.9
141236 2001 XA_{248}	15.2	X	111.81883	42.70005	117.33641	2.34083	0.0920495	0.17390929	3.1787340	21	7 2.8	19.9
141237 2001 XE_{251}	15.6	X	333.37359	249.91612	125.98230	2.77261	0.1994035	0.19049022	2.9914903	21	9 22.4	18.7
141238 2001 XG_{251}	15.0	X	165.05599	11.44892	94.05901	6.56423	0.1424388	0.17593469	3.1542908	21	6 24.3	20.1
141239 2001 XQ_{251}	15.1	X	289.63405	238.93143	131.11313	4.14749	0.2031262	0.18342201	3.0678568	21	6 26.4	19.2
141240 2001 XQ_{252}	15.5	X	185.20990	276.63720	165.09565	1.11519	0.1732498	0.17564286	3.1577837	21	6 13.9	20.8
141241 2001 XK_{256}	15.0	X	148.07740	284.35385	166.79105	9.67712	0.0779025	0.17463227	3.1699546	21	5 19.3	19.9
141242 2001 XV_{257}	14.8	X	227.06864	196.05127	286.64287	12.23488	0.1089423	0.19178400	2.9780213	21	9 10.1	19.5
141243 2001 XA_{258}	14.2	X	122.81978	134.65214	34.11362	22.86729	0.2418945	0.17899653	3.1182168	21	8 19.6	19.8
141244 2001 XM_{259}	14.6	X	140.79933	257.94456	214.98693	13.10893	0.1941884	0.17545634	3.1600212	21	6 13.6	19.9
141245 2001 XX_{259}	15.3	X	254.62028	336.27110	77.62788	17.80850	0.0713575	0.18576851	3.0419681	21	7 30.8	19.9
141246 2001 XK_{263}	15.2	X	180.57709	161.38837	285.00112	8.00000	0.0458414	0.17882380	3.1202245	21	6 14.8	19.9
141247 2001 XU_{263}	15.4	X	280.85239	256.44031	119.76451	12.81003	0.2343010	0.18748768	3.0233439	21	6 19.6	19.8
141248 2001 XE_{266}	14.9	X	176.78297	134.02758	289.12212	10.56875	0.0430327	0.17425029	3.1745856	21	5 9.8	19.7
141249 2001 YP_{5}	14.9	X	177.41180	274.23098	185.10454	11.85585	0.1209296	0.17839524	3.1252196	21	6 27.5	20.0
141250 2001 YP_{6}	15.3	X	151.32874	298.19310	165.21359	9.99324	0.1269981	0.17534406	3.1613701	21	6 9.0	20.4
141251 2001 YR_{8}	14.0	X	105.16635	253.29962	273.35632	14.85655	0.1167370	0.17456991	3.1707095	21	7 5.8	18.6
141252 2001 YU_{8}	14.5	X	226.72562	264.00299	80.55639	19.81731	0.1550696	0.17000958	3.2271596	21	4 7.3	20.0
141253 2001 YD_{9}	15.1	X	259.06569	315.79987	86.49309	11.84706	0.1679851	0.18257336	3.0773563	21	7 5.7	19.6
141254 2001 YT_{10}	15.8	X	278.69925	331.01469	66.06197	3.31437	0.0988313	0.18200551	3.0837538	21	8 3.0	20.1
141255 2001 YD_{12}	15.6	X	173.91572	72.52255	150.56240	2.60667	0.0296666	0.19755556	2.9197335	21	11 27.3	19.8
141256 2001 YO_{14}	15.1	X	74.28765	192.42314	84.02438	9.83177	0.0584455	0.19021902	2.9943329	21	10 14.0	19.4
141257 2001 YK_{20}	15.7	X	110.95462	288.24709	26.69594	2.17604	0.0642043	0.20367149	2.8609870	21	—	—
141258 2001 YL_{20}	15.0	X	275.99915	349.00699	8.24950	2.00071	0.0735171	0.18219200	3.0816491	21	6 11.4	19.3
141259 2001 YV_{20}	14.8	X	195.10647	304.45652	36.70145	5.37544	0.0868114	0.16854082	3.2458814	21	2 26.3	19.8
141260 2001 YL_{21}	15.0	X	201.30520	43.65950	42.15948	12.70239	0.1467679	0.17996426	3.1070282	21	7 4.3	20.2
141261 2001 YN_{21}	15.2	X	173.86030	13.06683	45.12667	9.83362	0.0911438	0.17497471	3.1658174	21	5 4.7	20.1
141262 2001 YT_{25}	15.5	X	310.18618	285.96243	64.80035	9.20232	0.1303521	0.18520940	3.0480870	21	7 13.1	19.5
141263 2001 YW_{25}	15.1	X	306.06149	78.92483	255.51918	9.63834	0.0698223	0.18147063	3.0898103	21	6 22.5	19.3
141264 2001 YJ_{27}	15.6	X	199.46722	105.26547	270.70657	4.81017	0.0362298	0.22181090	2.7028014	21	4 2.7	19.5
141265 2001 YE_{28}	14.8	X	69.46125	106.83559	94.00783	18.58395	0.0935378	0.17705384	3.1409846	21	7 1.9	19.1
141266 2001 YZ_{31}	15.2	X	345.88522	274.23976	69.63092	11.21094	0.1290375	0.18857467	3.0117145	21	9 9.4	18.9
141267 2001 YB_{32}	15.1	X	117.20498	77.19344	51.36482	5.91197	0.1404038	0.17306192	3.1891017	21	6 4.7	20.0
141268 2001 YG_{32}	14.9	X	234.67645	123.08903	279.63909	9.56930	0.0863838	0.18007689	3.1057326	21	6 18.6	19.5
141269 2001 YK_{32}	15.4	X	354.48254	220.71617	59.40865	10.82754	0.0709982	0.17942182	3.1132873	21	6 22.1	19.5
141270 2001 YA_{38}	15.3	X	305.51440	118.65221	273.76606	9.29526	0.1017727	0.18791746	3.0187325	21	8 29.2	19.3
141271 2001 YA_{39}	16.4	X	90.82603	35.41683	67.53708	3.76493	0.1272425	0.21681900	2.7441288	21	3 29.1	19.9
141272 2001 YJ_{42}	15.3	X	189.49351	56.30842	52.37701	7.04818	0.1070610	0.18000678	3.1065389	21	7 23.3	20.2
141273 2001 YM_{42}	15.7	X	97.12561	159.46614	283.03674	7.41000	0.1963237	0.21525427	2.7574112	21	3 15.7	19.5
141274 2001 YY_{42}	15.5	X	74.88028	173.39169	59.56402	2.07550	0.1179815	0.18129931	3.0917564	21	8 24.6	19.7
141275 2001 YH_{43}	15.7	X	341.12093	292.23240	64.34324	2.73799	0.0995535	0.18810389	3.0167376	21	9 13.8	19.2
141276 2001 YR_{46}	15.7	X	354.23122	252.77709	329.83678	1.80238	0.1277032	0.21872056	2.7282007	21	3 27.5	18.6
141277 2001 YT_{47}	15.5	X	331.93744	272.72053	70.25218	4.38127	0.1301099	0.18533101	3.0467535	21	8 8.7	19.1
141278 2001 YW_{52}	15.4	X	247.67095	38.65912	349.83587	1.24328	0.1375704	0.17949628	3.1124263	21	6 9.5	20.1
141279 2001 YQ_{53}	14.9	X	141.44459	82.21690	62.50023	1.89295	0.1210106	0.17672162	3.1449200	21	7 18.9	19.7
141280 2001 YS_{53}	14.3	X	94.12682	70.53094	76.05838	8.80990	0.1246285	0.17061251	3.2195522	21	5 30.6	18.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
141281 2001 YD_{56}	15.4	X	338.99136	359.37442	345.63435	3.52450	0.1433570	0.18720245	3.0264142	21	8 22.6	18.9
141282 2001 YU_{58}	15.1	X	345.63394	9.50472	276.52720	9.51323	0.0927126	0.17866617	3.1220595	21	6 15.9	18.9
141283 2001 YV_{58}	15.6	X	353.24645	264.07425	68.41864	9.74006	0.1492718	0.18749757	3.0232376	21	9 6.2	19.1
141284 2001 YX_{59}	15.3	X	283.64761	82.96795	290.10639	9.63177	0.0715616	0.18116430	3.0932924	21	7 12.4	19.6
141285 2001 YC_{65}	15.7	X	191.79824	62.83748	64.00219	2.14299	0.1238188	0.18025853	3.1036459	21	8 15.7	20.5
141286 2001 YF_{67}	14.9	X	171.70409	39.30216	54.74287	5.40607	0.1382995	0.17482127	3.1676695	21	6 16.2	19.9
141287 2001 YL_{69}	14.8	X	255.53572	325.46347	83.48406	2.49707	0.1581532	0.18143397	3.0902265	21	7 11.6	19.4
141288 2001 YK_{71}	14.9	X	7.01859	251.28903	94.65830	12.50359	0.0454473	0.18702926	3.0282822	21	10 12.8	19.1
141289 2001 YX_{72}	15.5	X	277.83918	278.06808	93.16155	13.38740	0.2111816	0.23138640	2.6277104	21	6 11.4	19.2
141290 2001 YT_{74}	15.2	X	265.74899	313.21741	67.33902	7.14293	0.1859818	0.18134268	3.0912635	21	6 13.2	19.9
141291 2001 YO_{81}	15.2	X	224.75314	216.42662	303.86774	0.70738	0.1967045	0.18875810	3.0097632	21	10 20.3	20.0
141292 2001 YR_{81}	15.1	X	285.99628	80.30266	321.74555	2.94310	0.2744727	0.18554932	3.0443633	21	7 22.8	19.3
141293 2001 YD_{86}	15.4	X	142.35713	76.75793	86.02531	6.25721	0.1051689	0.17644409	3.1482169	21	8 11.5	20.3
141294 2001 YK_{90}	14.8	X	216.35438	294.66427	96.47281	16.59051	0.1964814	0.17402465	3.1773291	21	5 15.3	20.3
141295 2001 YD_{91}	15.3	X	181.99061	3.95444	83.22939	2.69297	0.0896831	0.17420145	3.1751789	21	6 17.6	20.1
141296 2001 YV_{91}	14.8	X	216.58151	343.56398	111.89106	6.36647	0.1127531	0.17858896	3.1229592	21	8 2.1	19.6
141297 2001 YZ_{93}	16.8	X	239.43731	219.18346	122.35373	24.61107	0.1035567	0.37434415	1.9067277	21	3 27.1	19.8
141298 2001 YH_{99}	15.9	X	77.81655	15.74285	109.84209	6.74690	0.0596409	0.21799925	2.7342153	21	4 1.3	19.5
141299 2001 YO_{99}	15.1	X	225.43382	91.76328	259.63397	2.21476	0.0826707	0.17108971	3.2135627	21	4 6.2	19.9
141300 2001 YK_{104}	15.2	X	208.97264	242.64093	252.04295	3.05811	0.0678971	0.18429714	3.0581373	21	9 13.3	19.7
141301 2001 YL_{104}	14.9	X	261.53753	281.04532	111.17719	10.19551	0.1330609	0.17996018	3.1070752	21	6 30.3	19.4
141302 2001 YU_{106}	14.9	X	74.91602	264.21088	269.70085	3.60903	0.0773647	0.16915467	3.2380239	21	6 2.4	19.4
141303 2001 YD_{108}	15.1	X	258.10712	312.12592	124.02260	6.83871	0.2210091	0.18255503	3.0775623	21	8 10.0	19.7
141304 2001 YS_{108}	14.8	X	230.80180	125.49953	275.04245	8.21102	0.0988075	0.17872729	3.1213476	21	6 10.3	19.5
141305 2001 YB_{111}	15.5	X	100.62008	13.09391	48.56094	8.86333	0.2156299	0.21195285	2.7859707	21	3 5.8	19.3
141306 2001 YJ_{111}	15.1	X	177.64611	41.11728	48.02084	8.55939	0.0784570	0.17356235	3.1829687	21	6 14.7	20.1
141307 2001 YK_{112}	14.5	X	41.24197	64.65449	353.86616	9.34268	0.0751242	0.15215836	3.4748722	21	—	—
141308 2001 YT_{119}	15.0	X	172.26208	330.54583	128.23259	6.35576	0.1079635	0.17657623	3.1466460	21	6 22.3	20.0
141309 2001 YP_{120}	15.2	X	334.75970	44.52304	79.04933	4.63651	0.2603603	0.19946021	2.9011167	21	—	—
141310 2001 YC_{121}	15.4	X	87.68033	136.16272	290.32361	8.60090	0.1210456	0.21260643	2.7802581	21	2 1.6	18.9
141311 2001 YD_{121}	14.4	X	162.90147	74.37858	55.24672	12.90838	0.2184814	0.17776808	3.1325657	21	7 26.2	19.9
141312 2001 YU_{121}	14.7	X	242.58169	88.44236	47.69309	12.92918	0.0703140	0.19297721	2.9657329	21	10 28.0	18.9
141313 2001 YK_{122}	14.1	X	94.41972	242.78793	273.90564	17.01417	0.1093078	0.17402607	3.1773118	21	6 10.5	18.7
141314 2001 YR_{122}	15.4	X	294.15833	330.78304	292.04986	9.78035	0.0834677	0.21873696	2.7280643	21	2 24.5	19.4
141315 2001 YZ_{124}	15.4	X	313.42190	9.00086	349.79185	4.23513	0.1816977	0.23655577	2.5892879	21	7 23.9	18.2
141316 2001 YX_{125}	14.7	X	237.62404	333.78695	70.46751	18.01216	0.1341187	0.17966392	3.1104900	21	6 17.8	19.5
141317 2001 YB_{127}	14.8	X	146.37502	63.44832	27.14000	5.08494	0.1393672	0.17160645	3.2071084	21	5 18.5	19.8
141318 2001 YU_{127}	14.6	X	231.40510	349.19337	88.44401	29.05200	0.1140692	0.18089890	3.0963171	21	7 26.6	19.6
141319 2001 YC_{128}	14.6	X	144.88120	110.93553	50.02305	10.32890	0.0887746	0.18038228	3.1022262	21	8 13.6	19.5
141320 2001 YA_{129}	15.1	X	269.59025	334.93056	75.56665	12.45772	0.1413750	0.18360171	3.0658547	21	8 4.2	19.6
141321 2001 YL_{130}	15.6	X	144.53043	109.81435	358.81249	5.03711	0.1411356	0.17212627	3.2006482	21	6 7.9	20.7
141322 2001 YN_{130}	15.1	X	191.01060	46.81340	74.91556	10.41529	0.0455492	0.17969044	3.1101839	21	8 14.0	19.8
141323 2001 YZ_{131}	14.8	X	259.25706	53.31910	303.73469	8.33560	0.0742865	0.17852816	3.1236682	21	5 19.9	19.4
141324 2001 YV_{133}	15.0	X	125.82437	355.98716	50.26638	4.37643	0.0463639	0.16017924	3.3578805	21	2 27.0	19.8
141325 2001 YK_{134}	14.6	X	11.46642	337.21796	271.04982	11.70667	0.0457446	0.17408155	3.1766367	21	6 6.0	18.8
141326 2001 YM_{136}	14.6	X	152.52118	67.38646	47.89453	16.14629	0.0646709	0.17800838	3.1297459	21	6 18.3	19.4
141327 2001 YB_{137}	14.9	X	239.01335	46.36064	304.03987	14.43416	0.1904302	0.22579373	2.6709236	21	3 30.9	19.6
141328 2001 YB_{138}	15.3	X	200.16725	121.26857	358.63700	13.40904	0.0802174	0.18223077	3.0812120	21	8 21.2	20.1
141329 2001 YR_{144}	15.2	X	134.37017	93.77883	41.71160	5.76094	0.1158946	0.17302137	3.1896000	21	6 29.6	20.1
141330 2001 YX_{145}	15.3	X	16.87548	224.27716	289.72435	12.21168	0.1090797	0.21507152	2.7589729	21	1 31.7	18.6
141331 2001 YF_{146}	15.5	X	285.47499	338.86852	60.88114	2.60356	0.0905234	0.18558458	3.0439776	21	8 17.2	19.5
141332 2001 YB_{153}	15.0	X	191.09968	41.70312	37.08067	16.53413	0.0937377	0.17491737	3.1665093	21	6 14.3	20.1
141333 2001 YD_{153}	14.8	X	144.41847	95.68223	44.02343	17.32459	0.0992507	0.17534012	3.1614175	21	7 16.3	19.9
141334 2001 YP_{154}	15.4	X	96.48705	115.30868	101.44668	3.31356	0.1024000	0.17850336	3.1239575	21	8 28.1	19.9
141335 2001 YP_{156}	14.8	X	279.60900	348.20580	56.92611	15.78795	0.0984416	0.18346228	3.0674078	21	8 21.2	19.3
141336 2002 AH_{2}	14.1	X	193.70460	71.27786	32.63726	25.66456	0.2510584	0.17796118	3.1302993	21	7 22.0	20.0
141337 2002 AO_{2}	17.0	X	54.53946	250.77851	212.49876	20.58191	0.0948551	0.36164636	1.9511020	21	—	—
141338 2002 AD_{4}	16.5	X	221.42602	291.70444	352.19900	18.48479	0.0928006	0.35829576	1.9632470	21	—	—
141339 2002 AZ_{4}	16.8	X	57.99957	14.46790	99.85833	23.47291	0.0685771	0.36566592	1.9367775	21	1 5.3	18.2
141340 2002 AE_{5}	15.9	X	251.21213	143.09598	291.17762	0.67274	0.2390343	0.18214771	3.0821486	21	7 29.0	20.7
141341 2002 AZ_{6}	14.9	X	211.94856	277.11707	147.46704	19.81885	0.1641364	0.17557265	3.1586255	21	6 19.1	20.3
141342 2002 AN_{9}	15.3	X	214.56136	155.81527	304.51366	4.02248	0.1127259	0.17851222	3.1238541	21	8 5.3	20.0
141343 2002 AK_{13}	14.7	X	188.25777	303.77402	144.01626	27.79996	0.2284606	0.17909229	3.1171051	21	6 26.5	20.5
141344 2002 AD_{15}	14.6	X	134.22730	136.80500	48.48228	18.39077	0.1447343	0.17885372	3.1198765	21	9 10.9	19.9
141345 2002 AQ_{15}	14.4	X	183.36397	159.71009	295.86997	25.98948	0.2845223	0.17693018	3.1424481	21	7 1.4	20.2
141346 2002 AF_{16}	15.2	X	227.56839	285.88603	116.33272	12.82902	0.3953367	0.17818627	3.1276625	21	5 25.7	21.2
141347 2002 AR_{18}	14.5	X	153.31332	30.83088	114.34562	28.45098	0.1221675	0.17752431	3.1354328	21	7 31.1	19.5
141348 2002 AJ_{19}	15.5	X	81.80584	116.11860	285.27377	7.77262	0.1601000	0.20938287	2.8087211	21	—	—
141349 2002 AO_{22}	15.1	X	255.40461	34.67114	126.94882	1.84580	0.2399952	0.18986404	2.9980641	21	11 18.2	19.4
141350 2002 AR_{22}	15.5	X	203.84361	52.85557	45.00394	4.79200	0.0843060	0.17674040	3.1446972	21	7 25.3	20.3
141351 2002 AE_{25}	15.0	X	146.02911	342.54007	155.25712	5.57136	0.0860066	0.17374898	3.1806889	21	7 11.9	19.9
141352 2002 AD_{27}	14.6	X	216.69003	311.98445	121.89870	18.29593	0.2277044	0.17668969	3.1452988	21	6 29.9	20.0
141353 2002 AD_{28}	15.0	X	149.88658	134.76655	347.40148	4.75251	0.1477811	0.17238434	3.1974531	21	7 1.1	20.1
141354 2002 AJ_{29}	17.3	X	312.44336	0.51146	203.95647	10.91325	0.4501436	0.35130490	1.9892067	21	—	—
141355 2002 AK_{29}	14.5	X	181.13123	116.97598	319.83766	11.92117	0.1328733	0.23074033	2.6326132	21	5 31.9	18.9
141356 2002 AN_{29}	15.6	X	105.67896	163.55681	279.61299	8.19701	0.1386171	0.21758264	2.7377044	21	3 18.1	19.4
141357 2002 AU_{29}	15.1	X	122.70270	55.12179	92.40679	4.56080	0.0761983	0.17225320	3.1990757	21	6 27.8	19.7
141358 2002 AZ_{32}	15.0	X	168.91099	140.42880	96.86347	7.67662	0.1682449	0.18905954	3.0065631	21	12 2.9	19.9
141359 2002 AN_{36}	16.7	X	187.63132	235.64774	116.93178	24.95276	0.0727777	0.36577610	1.9363885	21	1 29.1	18.7
141360 2002 AV_{36}	15.5	X	102.08312	317.82634	116.42040	6.79484	0.0425164	0.21454389	2.7634946	21	2 22.8	19.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
141361 2002 AK_{37}	15.1	X	238.95183	316.24210	116.57236	12.52506	0.2613093	0.18213351	3.0823087	21	7 13.9	20.3
141362 2002 AP_{37}	15.0	X	359.86086	191.33601	103.50860	9.89622	0.0230914	0.18134595	3.0912263	21	7 20.8	19.2
141363 2002 AJ_{38}	16.5	X	252.70113	346.25694	121.28784	2.29970	0.0304966	0.28971989	2.2619544	21	10 23.1	19.0
141364 2002 AM_{38}	15.3	X	95.84218	290.50521	117.94837	4.95727	0.1004278	0.20997864	2.8034058	21	1 20.3	18.8
141365 2002 AE_{39}	14.9	X	134.05437	246.75459	257.56388	3.81236	0.1136069	0.17296305	3.1903169	21	7 9.5	19.8
141366 2002 AJ_{44}	16.2	X	17.17233	277.19520	151.33665	2.47818	0.0813191	0.19976303	2.8981842	21	—	—
141367 2002 AL_{44}	17.3	X	320.98362	20.36446	113.68129	4.49645	0.0715247	0.30092825	2.2054341	21	—	—
141368 2002 AB_{45}	14.6	X	296.41361	11.65785	284.86528	4.16087	0.0966262	0.16899057	3.2401197	21	4 17.1	19.1
141369 2002 AX_{45}	15.7	X	98.56857	16.96558	153.70454	1.74260	0.1100592	0.17175564	3.2052510	21	7 2.9	20.4
141370 2002 AG_{48}	15.2	X	193.74062	128.23284	267.94881	4.67587	0.0602339	0.16862703	3.2447750	21	4 27.3	20.0
141371 2002 AJ_{49}	15.6	X	202.29557	202.06984	228.73884	1.07215	0.2184297	0.17572710	3.1567745	21	6 14.3	21.1
141372 2002 AA_{52}	16.1	X	189.75442	291.39305	296.26559	10.24975	0.2533605	0.23956666	2.5675473	21	12 9.9	20.6
141373 2002 AS_{52}	14.8	X	223.61967	275.88190	128.75614	8.69584	0.0483267	0.17262598	3.1944685	21	6 12.8	19.6
141374 2002 AW_{52}	15.1	X	106.36936	32.01844	126.86659	5.77237	0.0807399	0.17046473	3.2214126	21	6 23.7	19.8
141375 2002 AL_{57}	15.3	X	326.15958	237.65189	151.53041	3.88653	0.2631913	0.23869308	2.5738081	21	9 30.6	17.0
141376 2002 AZ_{60}	16.8	X	141.45919	301.67426	133.35834	23.71784	0.1170285	0.36820666	1.9278576	21	4 15.5	19.6
141377 2002 AJ_{64}	14.2	X	345.87644	76.47492	154.20067	9.04376	0.0914031	0.16151834	3.3392953	21	4 9.1	18.5
141378 2002 AW_{65}	15.2	X	237.13471	257.62255	124.02124	14.02414	0.1653877	0.17451916	3.1713241	21	5 23.2	20.4
141379 2002 AP_{66}	14.9	X	185.67948	277.25128	155.44612	26.51440	0.1712173	0.17222300	3.1994497	21	6 7.9	20.7
141380 2002 AF_{68}	14.6	X	143.22017	193.10975	295.93774	10.43080	0.0251651	0.17444089	3.1722728	21	6 24.1	19.2
141381 2002 AP_{69}	14.8	X	191.08363	189.21974	273.39388	9.97314	0.0509793	0.18232699	3.0801279	21	7 16.2	19.3
141382 2002 AW_{71}	15.2	X	190.70913	149.33835	305.78315	8.03373	0.0446147	0.17798131	3.1300632	21	7 8.2	19.7
141383 2002 AY_{71}	15.5	X	28.26225	303.96150	62.44502	2.71574	0.1039394	0.19688603	2.9263490	21	12 8.5	19.3
141384 2002 AV_{74}	15.9	X	180.85868	134.55115	350.44383	3.63676	0.0931593	0.17843525	3.1247524	21	8 3.2	20.8
141385 2002 AK_{75}	15.8	X	291.51254	299.13600	82.92617	2.47776	0.1993782	0.18363054	3.0655338	21	7 15.6	19.7
141386 2002 AV_{79}	15.7	X	133.28850	37.36017	307.32942	10.73316	0.2999246	0.25869277	2.4393822	21	1 5.7	19.2
141387 2002 AV_{80}	15.0	X	323.56477	288.92777	109.25339	12.29406	0.1171551	0.19228512	2.9728450	21	10 15.3	18.8
141388 2002 AQ_{85}	14.9	X	134.55107	331.43423	135.95212	14.32044	0.1123661	0.16983711	3.2293440	21	5 29.2	20.0
141389 2002 AU_{85}	15.8	X	193.11890	182.32925	232.38398	5.18301	0.0414006	0.22182684	2.7026719	21	5 18.1	19.5
141390 2002 AH_{87}	14.6	X	252.30713	264.16841	128.41570	27.23158	0.1834823	0.17825248	3.1268881	21	6 19.2	19.8
141391 2002 AA_{106}	15.5	X	11.19734	316.12370	78.61635	2.71769	0.0318588	0.19286453	2.9668879	21	12 11.3	19.6
141392 2002 AO_{108}	15.2	X	222.77029	75.14958	22.32989	1.77476	0.2132495	0.17970074	3.1100651	21	8 3.2	20.4
141393 2002 AU_{108}	15.7	X	33.18793	320.32838	79.46077	2.99743	0.0901247	0.19702016	2.9250206	21	—	—
141394 2002 AS_{109}	15.4	X	130.93758	131.20598	309.72505	1.99207	0.1282982	0.16535874	3.2873904	21	4 20.8	20.4
141395 2002 AX_{128}	14.5	X	213.01470	123.92240	113.76739	10.99804	0.1908935	0.18892588	3.0079809	21	—	—
141396 2002 AC_{129}	16.3	X	195.00745	122.29128	137.19278	25.97264	0.2357936	0.29504448	2.2346579	21	—	—
141397 2002 AS_{129}	14.7	X	236.48012	2.88247	35.69677	23.96975	0.1705610	0.17810380	3.1286280	21	6 1.9	20.0
141398 2002 AV_{129}	17.0	X	146.68814	72.04898	352.35581	20.61210	0.0922066	0.37009091	1.9213085	21	3 19.9	18.9
141399 2002 AN_{131}	16.6	X	42.70566	102.61019	108.48936	23.68593	0.0634805	0.37165705	1.9159072	21	5 31.3	18.6
141400 2002 AD_{132}	15.0	X	209.77467	31.62469	90.89397	5.37716	0.0269743	0.18530467	3.0470422	21	9 6.9	19.4
141401 2002 AD_{134}	15.6	X	288.36173	330.65752	73.53773	0.53246	0.0520252	0.18341721	3.0679103	21	8 31.4	19.8
141402 2002 AE_{145}	16.0	X	219.56296	322.20600	139.59933	1.58389	0.1353153	0.17975674	3.1094191	21	8 10.7	20.9
141403 2002 AH_{149}	16.1	X	160.49419	128.50387	0.37312	0.64523	0.1328788	0.17536581	3.1611087	21	7 18.4	21.1
141404 2002 AV_{150}	14.7	X	33.19634	107.82280	115.07813	6.73724	0.0618447	0.16817596	3.2505744	21	6 6.3	19.0
141405 2002 AP_{152}	15.3	X	152.04129	111.51789	7.41616	0.67350	0.1557946	0.17106205	3.2139092	21	6 29.2	20.4
141406 2002 AR_{162}	16.6	X	143.80146	334.26703	178.36063	3.03195	0.1006928	0.27567411	2.3381483	21	7 31.4	19.9
141407 2002 AC_{165}	15.5	X	123.45089	339.18668	169.00328	5.33431	0.1074069	0.17076864	3.2175896	21	7 2.4	20.4
141408 2002 AH_{172}	16.0	X	245.04564	310.14081	122.31280	5.80013	0.1237667	0.17999698	3.1066517	21	8 2.6	20.7
141409 2002 AV_{177}	16.9	X	151.29645	84.21599	358.47190	1.13761	0.1560069	0.26957541	2.3732812	21	5 10.2	20.4
141410 2002 AZ_{179}	14.6	X	153.35556	77.92079	74.35598	27.23296	0.0908841	0.17617060	3.1514742	21	8 14.4	19.9
141411 2002 AB_{182}	15.1	X	149.23118	125.91337	55.33977	6.90194	0.0866183	0.18043927	3.1015730	21	9 11.4	19.9
141412 2002 AW_{184}	14.9	X	154.79973	306.42338	127.08282	8.48613	0.0791099	0.17308661	3.1887984	21	5 6.0	19.8
141413 2002 AM_{199}	16.0	X	259.50043	354.10100	48.19032	2.72382	0.0568230	0.17963763	3.1107934	21	7 21.8	20.4
141414 Bochanski	15.0	X	184.07510	227.33405	144.91729	11.69673	0.0942302	0.17286417	3.1915333	21	3 23.9	20.0
141415 2002 BR_{4}	14.5	X	129.57764	87.73904	83.70070	24.91035	0.3101438	0.17297243	3.1902016	21	8 28.7	20.5
141416 2002 BR_{19}	14.9	X	203.75953	64.09651	80.91315	4.95220	0.2598854	0.18086504	3.0967035	21	9 12.4	20.3
141417 2002 BM_{20}	16.3	X	37.10254	335.82225	135.53576	24.31575	0.0827704	0.35903176	1.9605630	21	—	—
141418 2002 BD_{21}	16.9	X	66.71224	96.23835	47.11458	21.65949	0.0761941	0.36494377	1.9393316	21	3 29.1	19.0
141419 2002 BM_{21}	14.7	X	189.94346	33.13931	46.36888	27.52069	0.1731554	0.17208234	3.2011930	21	6 9.8	20.3
141420 2002 BG_{24}	14.6	X	126.12426	5.62164	19.00851	10.50932	0.0875947	0.15779637	3.3916007	21	2 9.7	19.7
141421 2002 BB_{29}	14.7	X	250.09643	294.86737	86.78323	17.95654	0.2316531	0.17661754	3.1461553	21	5 28.0	19.8
141422 2002 BU_{29}	14.8	X	94.24217	117.04823	59.25427	11.90522	0.1253000	0.17159708	3.2072252	21	7 7.5	19.5
141423 2002 BZ_{29}	14.8	X	246.62143	321.99300	81.54065	16.33034	0.1895230	0.17818001	3.1277359	21	6 21.4	19.7
141424 2002 CD	20.5	X	139.53026	331.78242	8.67381	6.87603	0.1767074	1.01615615	0.9798564	21	—	—
141425 2002 CV_{1}	16.5	X	175.95179	70.86486	3.39658	5.84094	0.0503527	0.27185779	2.3599793	21	5 18.7	19.7
141426 2002 CX_{6}	16.7	X	213.82955	304.21298	52.14266	22.94662	0.0402806	0.36782880	1.9291777	21	3 24.5	19.4
141427 2002 CB_{7}	17.4	X	131.04459	87.02522	0.88310	20.26084	0.1399227	0.37038496	1.9202915	21	4 7.2	19.5
141428 2002 CR_{7}	16.5	X	153.29298	197.04041	271.22044	1.49963	0.1614565	0.27140938	2.3625779	21	6 15.9	19.9
141429 2002 CL_{9}	15.6	X	297.47548	130.16054	124.47983	4.59712	0.0442757	0.20960963	2.8066950	21	3 2.7	19.4
141430 2002 CO_{10}	16.6	X	100.73518	9.41899	11.15329	19.18994	0.0788166	0.35271848	1.9838884	21	—	—
141431 2002 CS_{10}	16.2	X	76.34658	24.32548	47.28514	22.34551	0.0996375	0.35524962	1.9744537	21	—	—
141432 2002 CQ_{11}	20.0	X	95.54634	272.62796	81.34511	2.46719	0.4275943	1.02181211	0.9762372	21	—	—
141433 2002 CX_{12}	15.8	X	277.57032	15.65615	102.13097	2.14101	0.2663213	0.19010643	2.9955151	21	10 19.5	19.7
141434 2002 CP_{14}	15.4	X	211.13733	207.37020	247.15588	12.62913	0.2523222	0.17757069	3.1348867	21	7 15.5	20.9
141435 2002 CU_{20}	15.2	X	283.69603	26.71208	122.07033	11.90177	0.0452486	0.19287487	2.9667819	21	—	—
141436 2002 CZ_{20}	16.6	X	147.81490	89.13614	50.24062	3.06549	0.1013996	0.27383510	2.3486049	21	7 19.3	19.9
141437 2002 CQ_{26}	14.1	X	245.29246	113.73984	275.45476	19.94527	0.1337294	0.18271193	3.0758001	21	6 8.8	18.8
141438 2002 CC_{29}	14.8	X	229.36066	343.78368	103.61454	11.09883	0.0688505	0.17842557	3.1248654	21	8 11.5	19.4
141439 2002 CQ_{29}	14.8	X	103.52269	143.24347	30.88170	6.12659	0.1084768	0.17132331	3.2106410	21	7 14.1	19.6
141440 2002 CC_{31}	15.3	X	151.57767	59.25973	55.03234	6.09835	0.1289884	0.17128360	3.2111371	21	6 21.5	20.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
141441 2002 CB_{33}	16.2	X	315.53575	13.07736	39.75136	7.66179	0.1696641	0.28889042	2.2662820	21	11 1.1	17.8
141442 2002 CJ_{34}	15.1	X	118.41422	204.77364	96.56634	12.02029	0.0556229	0.19333099	2.9621137	21	12 28.5	19.5
141443 2002 CX_{42}	14.7	X	209.14878	58.93135	94.72384	11.65506	0.1631412	0.18292176	3.0734475	21	10 6.6	19.8
141444 2002 CU_{45}	16.5	X	40.03974	27.73895	161.11541	22.35049	0.0366196	0.36854144	1.9266899	21	4 11.9	18.4
141445 2002 CA_{55}	15.6	X	279.60687	210.52944	261.89358	2.23006	0.1891174	0.18876673	3.0096714	21	10 25.5	19.4
141446 2002 CC_{58}	15.3	X	32.19412	23.00174	321.57868	2.35548	0.0704350	0.18654301	3.0335424	21	11 9.3	19.4
141447 2002 CW_{59}	17.0	X	84.24105	7.27471	151.12375	32.09197	0.5054478	0.26789431	2.3831995	21	7 21.7	21.4
141448 2002 CF_{61}	14.8	X	47.03463	137.26109	82.48392	11.72445	0.0175655	0.17040742	3.2221349	21	6 16.1	19.1
141449 2002 CZ_{64}	15.2	X	293.18227	326.67173	86.06494	12.04220	0.0883725	0.18250254	3.0781524	21	9 19.4	19.5
141450 2002 CT_{66}	15.7	X	113.35490	161.86678	24.89903	2.23302	0.1046330	0.17460824	3.1702455	21	8 9.4	20.4
141451 2002 CQ_{80}	15.2	X	172.12146	79.60046	122.40818	3.86268	0.0914599	0.18407961	3.0605461	21	10 28.0	19.9
141452 2002 CV_{83}	15.8	X	262.45227	78.41242	28.16479	1.31268	0.1522259	0.18487531	3.0517581	21	10 1.3	20.1
141453 2002 CE_{87}	17.0	X	332.86093	266.08792	122.66249	1.63564	0.0730101	0.28636751	2.2795732	21	10 30.3	19.3
141454 2002 CW_{92}	15.4	X	142.79001	142.22143	109.94536	4.88670	0.1268424	0.18673911	3.0314183	21	11 27.4	20.2
141455 2002 CE_{95}	16.6	X	55.95817	170.70504	346.10702	1.82450	0.1135066	0.26255328	2.4154113	21	4 6.7	18.9
141456 2002 CP_{95}	16.6	X	107.61674	105.91180	150.43606	6.07392	0.0933926	0.28246641	2.3005138	21	11 10.0	19.9
141457 2002 CG_{98}	17.4	X	325.47143	250.18034	345.37742	0.68441	0.1237381	0.30963400	2.1638989	21	2 11.2	19.8
141458 2002 CB_{100}	15.0	X	174.50476	70.82449	87.06740	2.01107	0.0805117	0.17686127	3.1432643	21	9 6.2	19.7
141459 2002 CQ_{100}	15.1	X	245.39668	85.42566	143.23311	3.00704	0.0263776	0.19646588	2.9305196	21	—	—
141460 2002 CM_{111}	15.1	X	247.27086	1.54050	142.10452	2.63783	0.1020120	0.18534075	3.0466467	21	11 5.5	19.3
141461 2002 CU_{119}	15.3	X	143.41665	274.82859	216.30781	1.35803	0.0534464	0.17281516	3.1921368	21	6 28.7	19.9
141462 2002 CB_{121}	15.8	X	224.70580	309.08416	291.29264	0.95404	0.0317899	0.19910851	2.9045320	21	—	—
141463 2002 CC_{127}	14.9	X	187.01686	309.34241	139.70114	15.06244	0.2697692	0.17492351	3.1664351	21	6 24.5	20.7
141464 2002 CS_{140}	15.3	X	309.49318	181.08413	270.78216	8.60799	0.0574120	0.19167085	2.9791932	21	11 28.8	19.2
141465 2002 CC_{141}	15.4	X	148.81837	268.74346	219.94262	4.29428	0.1087188	0.17123858	3.2117000	21	7 4.9	20.5
141466 2002 CU_{145}	16.9	X	45.07109	282.28949	158.65516	23.63109	0.0875581	0.35251874	1.9846377	21	—	—
141467 2002 CO_{152}	14.6	X	123.26829	277.71623	279.33676	12.81197	0.1815388	0.17280164	3.1923032	21	8 31.5	20.0
141468 2002 CL_{161}	16.9	X	246.35747	27.31163	58.39519	3.20249	0.1290412	0.28279757	2.2987175	21	8 27.7	19.8
141469 2002 CO_{163}	17.2	X	49.44963	97.01628	65.46322	3.06491	0.1498347	0.26327661	2.4109851	21	4 9.1	19.3
141470 2002 CH_{183}	15.6	X	144.94016	264.92275	330.79461	1.98215	0.0570644	0.18652930	3.0336910	21	11 7.1	20.1
141471 2002 CW_{205}	16.9	X	217.84426	277.58911	135.86082	1.00880	0.1732207	0.27434325	2.3457039	21	6 5.9	20.3
141472 2002 CQ_{207}	16.1	X	312.45942	2.38912	67.38716	1.94502	0.2233873	0.18834480	3.0141645	21	10 21.3	19.3
141473 2002 CE_{215}	15.6	X	283.44434	313.35850	134.82765	2.87642	0.0746995	0.18430526	3.0580475	21	10 17.9	19.6
141474 2002 CM_{219}	15.9	X	241.67797	56.75535	92.73116	2.39633	0.0925160	0.18558906	3.0439287	21	11 7.1	20.2
141475 2002 CM_{236}	15.0	X	310.28112	294.19527	117.35280	10.96682	0.1168639	0.18349933	3.0669949	21	10 8.9	19.0
141476 2002 CD_{241}	15.4	X	312.59647	15.32171	328.73593	5.62190	0.0416744	0.22153827	2.7050183	21	7 20.0	18.8
141477 2002 CP_{245}	17.2	X	191.02329	334.30668	334.81126	0.28644	0.1705758	0.29958981	2.2119978	21	—	—
141478 2002 CN_{256}	15.1	X	326.17353	343.84885	77.96073	7.82171	0.0420083	0.18727858	3.0255940	21	11 15.8	19.1
141479 2002 CA_{265}	16.3	X	89.20562	179.39357	96.36056	6.50942	0.2239927	0.27397359	2.3478134	21	11 24.2	19.9
141480 2002 CD_{273}	16.6	X	134.09130	117.40445	63.16933	6.15596	0.1689177	0.27587499	2.3370132	21	9 4.8	20.2
141481 2002 CM_{288}	15.3	X	111.15651	44.22957	332.24514	1.24474	0.0488253	0.15242455	3.4708255	21	1 6.4	20.0
141482 2002 DV_{1}	16.8	X	84.52452	41.88471	114.95791	23.94792	0.0642852	0.36942214	1.9236266	21	5 19.4	19.3
141483 2002 DP_{2}	16.2	X	236.28022	290.22746	75.89511	23.32251	0.1209766	0.36958467	1.9230626	21	4 29.9	19.0
141484 2002 DB_{4}	16.4	X	231.04975	94.14380	234.25018	16.60245	0.3695366	1.24022768	0.8579628	21	12 22.7	16.3
141485 2002 DG_{8}	14.6	X	92.43941	111.00242	51.50377	15.26976	0.0840705	0.16834138	3.2484445	21	6 9.8	19.3
141486 2002 DZ_{10}	14.0	X	321.07157	354.94875	2.18241	27.75824	0.1074484	0.17911960	3.1167884	21	8 24.0	18.3
141487 2002 DP_{16}	17.3	X	320.72735	32.58841	237.84940	0.92307	0.1705571	0.31375733	2.1448987	21	3 17.6	19.3
141488 2002 DK_{18}	16.3	X	345.74172	173.33940	12.13484	20.71297	0.0425060	0.35903599	1.9605476	21	1 3.2	18.9
141489 2002 DR_{18}	18.1	X	358.91355	97.83034	134.69040	1.61163	0.1737257	0.31324458	2.1472388	21	3 29.6	19.3
141490 2002 EH	16.7	X	215.44551	22.86331	53.11191	22.91718	0.0773017	0.37890284	1.8914033	21	7 12.1	19.3
141491 2002 EL	15.8	X	244.90409	246.08743	87.31197	23.90026	0.0737850	0.36709234	1.9317570	21	3 31.1	18.8
141492 2002 EB_{7}	17.5	X	265.29106	292.86665	357.25548	2.06703	0.1674305	0.30577167	2.1820828	21	2 9.4	20.6
141493 2002 ES_{7}	16.8	X	233.87786	286.11661	332.07112	7.39295	0.1604922	0.29889953	2.2154021	21	—	—
141494 2002 EB_{9}	16.5	X	44.69197	229.06508	196.70247	21.62817	0.0500342	0.34913805	1.9974286	21	—	—
141495 2002 EZ_{11}	18.3	X	269.01488	317.74248	51.90886	2.35448	0.8021331	0.83814471	1.1140980	21	4 2.0	20.2
141496 Bartkevicius	16.6	X	346.88675	157.50200	44.32092	2.17423	0.1235498	0.25542343	2.4601536	21	2 8.9	19.3
141497 2002 EW_{13}	15.2	X	190.90934	8.78175	123.52309	2.43208	0.1253464	0.17426225	3.1744404	21	8 20.7	20.2
141498 2002 EZ_{16}	18.4	X	72.79358	25.35352	262.90279	30.13977	0.5665533	1.11407803	0.9215643	21	1 24.9	19.5
141499 2002 ES_{20}	16.7	X	244.90214	89.38837	162.51342	7.20033	0.2512947	0.29502856	2.2347383	21	—	—
141500 2002 EO_{37}	17.3	X	318.42757	257.71701	44.96232	3.19869	0.0422453	0.31837109	2.1241261	21	5 25.0	19.5
141501 2002 ES_{42}	16.8	X	342.11696	73.97950	179.09026	1.96910	0.1474983	0.26228549	2.4170550	21	4 10.3	19.1
141502 2002 ET_{46}	16.9	X	47.09707	280.20467	247.50293	1.49638	0.1348119	0.26100656	2.4249443	21	4 9.1	19.1
141503 2002 EW_{58}	13.4	X	46.36846	112.09506	183.46578	7.50757	0.2020258	0.12515156	3.9583289	21	10 10.2	18.6
141504 2002 ET_{66}	15.0	X	215.42780	269.79326	178.66940	4.33878	0.1564385	0.17300050	3.1898565	21	7 18.9	20.1
141505 2002 ED_{73}	17.1	X	259.51232	252.07725	350.73554	7.50879	0.1786543	0.29814485	2.2191390	21	—	—
141506 2002 EO_{74}	17.1	X	347.18747	277.44099	311.76831	0.89818	0.1820602	0.30861525	2.1686583	21	2 26.4	18.7
141507 2002 ER_{79}	16.5	X	182.14625	289.63000	342.02910	7.33263	0.1707818	0.29040489	2.2583960	21	—	—
141508 2002 EY_{79}	15.5	X	136.71720	47.42985	152.60416	2.42114	0.0386848	0.17579235	3.1559933	21	9 14.8	19.9
141509 2002 ET_{84}	16.7	X	176.04714	237.55842	37.17171	3.73076	0.1596332	0.29191816	2.2505844	21	—	—
141510 2002 EU_{88}	15.5	X	77.20811	135.25304	55.66208	4.82109	0.0927347	0.21534991	2.7565947	21	6 29.4	19.1
141511 2002 EK_{90}	15.5	X	206.45642	60.34682	89.38124	3.15048	0.1118181	0.18042558	3.1017300	21	9 28.5	20.3
141512 2002 EO_{90}	17.1	X	274.18152	257.35641	7.78144	5.58895	0.1630301	0.30429325	2.1891449	21	1 18.7	20.3
141513 2002 EZ_{93}	14.5	X	76.71806	255.97048	163.43009	10.35702	0.0760377	0.15026867	3.5039435	21	1 17.2	19.3
141514 2002 EC_{94}	15.0	X	316.16856	254.13222	134.34287	2.27355	0.2037319	0.18051180	3.1007421	21	9 2.3	18.5
141515 2002 EU_{97}	14.9	X	129.34529	179.28843	148.22298	10.33491	0.0482037	0.19276950	2.9678629	21	—	—
141516 2002 ER_{98}	16.6	X	231.02539	25.64519	218.17625	3.65645	0.1647100	0.29457567	2.2370282	21	—	—
141517 2002 EG_{102}	16.7	X	238.54344	39.45574	241.42246	6.44140	0.1562847	0.30000704	2.2099465	21	1 3.5	20.1
141518 2002 EB_{136}	14.2	X	24.49124	148.40858	157.28336	8.88784	0.1344352	0.12336681	3.9964143	21	9 11.8	19.3
141519 2002 ED_{137}	15.5	X	129.06106	98.43453	148.36430	2.60371	0.1660881	0.17999542	3.1066697	21	11 9.6	20.6
141520 2002 EL_{144}	16.7	X	237.28044	344.74862	150.59228	2.56549	0.0612687	0.23267783	2.6179783	21	10 26.4	20.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
141521 2002 ER_{144}	16.5	X	320.25253	148.88298	138.48987	3.10410	0.2020755	0.26189134	2.4194795	21	4 15.1	19.3
141522 2002 EF_{147}	14.9	X	69.00945	314.87291	298.84865	6.72350	0.0791763	0.17252571	3.1957061	21	9 2.5	19.5
141523 2002 EQ_{149}	12.9	X	15.70658	307.08484	96.99896	2.71222	0.0272559	0.08466401	5.1365337	21	12 6.8	19.6
141524 2002 FE_{5}	16.3	X	100.85677	47.18884	29.91146	20.96347	0.0873774	0.35752171	1.9660796	21	2 12.4	18.7
141525 2002 FV_{5}	18.0	X	287.49613	308.09675	38.85111	34.03414	0.7246468	0.86973189	1.0869572	21	3 29.4	20.6
141526 2002 FA_{6}	19.9	X	182.27931	173.38177	174.67379	30.10059	0.3224544	0.96543394	1.0138826	21	—	—
141527 2002 FG_{7}	18.8	X	167.35078	247.68053	187.49714	9.20298	0.6267198	0.52936387	1.5134446	21	5 27.7	21.9
141528 2002 FN_{21}	14.8	X	212.68618	41.73537	119.33200	11.23950	0.1381641	0.18263243	3.0766927	21	10 19.7	19.7
141529 2002 FG_{24}	14.7	X	214.32552	39.60254	48.47185	17.81709	0.2185327	0.17721403	3.1390915	21	7 16.8	20.2
141530 2002 FE_{37}	16.7	X	53.46037	94.41602	18.55691	24.35834	0.0153412	0.35776199	1.9651992	21	1 2.3	19.4
141531 2002 GB	19.0	X	244.99465	8.31804	40.81624	22.55058	0.5289201	0.99747426	0.9920531	21	5 11.6	19.2
141532 2002 GE_{3}	16.5	X	232.05899	247.39354	23.58936	7.02878	0.1879940	0.29783753	2.2206653	21	—	—
141533 2002 GG_{3}	16.3	X	0.87971	191.68279	102.72224	24.02601	0.0485316	0.37188560	1.9151221	21	7 28.8	17.9
141534 2002 GJ_{3}	16.1	X	138.65689	357.89365	64.15079	22.93899	0.1045952	0.35897117	1.9607836	21	3 28.7	19.0
141535 2002 GG_{5}	16.5	X	209.26857	98.11176	187.03283	2.33287	0.2788419	0.29401860	2.2398530	21	—	—
141536 2002 GM_{7}	16.6	X	274.20775	114.58683	156.18844	6.95719	0.1197475	0.30350378	2.1929395	21	1 27.2	19.5
141537 2002 GY_{10}	16.6	X	209.96041	250.11770	45.53359	6.44549	0.1917307	0.29679337	2.2258706	21	—	—
141538 2002 GA_{11}	16.4	X	219.66435	272.09824	32.54215	7.10659	0.2007070	0.29872591	2.2162604	21	1 19.4	20.0
141539 2002 GA_{14}	17.3	X	308.53496	68.10833	175.83206	1.33230	0.0977602	0.30581571	2.1818733	21	2 4.1	20.0
141540 2002 GC_{14}	16.4	X	202.16065	44.89533	205.62918	6.42423	0.0806433	0.29014619	2.2597382	21	—	—
141541 2002 GL_{14}	16.5	X	335.28885	240.35723	40.64209	5.02532	0.1272989	0.31149170	2.1552868	21	5 7.3	18.1
141542 2002 GO_{18}	16.7	X	288.42711	266.84357	11.58767	7.05872	0.1782431	0.30519827	2.1848150	21	2 19.1	19.7
141543 2002 GX_{22}	16.9	X	287.96867	304.44375	259.17115	4.60448	0.1006256	0.29657690	2.2269536	21	—	—
141544 2002 GY_{22}	14.9	X	112.40481	348.01509	269.73041	4.22200	0.1006100	0.17869136	3.1217660	21	10 31.5	19.7
141545 2002 GH_{26}	16.3	X	284.41954	28.80833	263.19279	6.27008	0.1603902	0.30560829	2.1828604	21	2 28.6	19.4
141546 2002 GD_{45}	15.8	X	165.35424	77.39303	12.35340	5.38246	0.0581568	0.21387291	2.7692714	21	5 30.6	19.9
141547 2002 GS_{46}	17.2	X	286.85691	216.61503	35.28850	2.74714	0.0623444	0.30400572	2.1905250	21	1 24.7	20.0
141548 2002 GW_{46}	16.8	X	310.50807	12.38474	33.98399	2.76016	0.0411771	0.22821024	2.6520353	21	10 10.6	20.1
141549 2002 GT_{50}	16.9	X	208.47213	69.07382	174.38010	6.54474	0.1279971	0.29112458	2.2546725	21	—	—
141550 2002 GW_{52}	17.2	X	170.79227	119.50746	162.58148	3.08264	0.2289047	0.28773079	2.2723671	21	—	—
141551 2002 GO_{55}	17.2	X	214.42382	287.91843	321.73045	2.88545	0.1488636	0.29220893	2.2490912	21	—	—
141552 2002 GC_{56}	17.2	X	248.22987	83.20418	185.36327	6.33033	0.2139368	0.29710047	2.2243365	21	—	—
141553 2002 GL_{58}	16.5	X	190.90455	286.59018	330.03163	10.55504	0.1448073	0.29057870	2.2574954	21	—	—
141554 2002 GV_{58}	16.8	X	172.24109	87.42806	192.35035	5.22912	0.1332509	0.28950646	2.2630659	21	—	—
141555 2002 GW_{67}	17.1	X	150.72947	214.98320	83.62279	1.89336	0.2499844	0.28681091	2.2772232	21	—	—
141556 2002 GT_{69}	16.8	X	309.90340	130.20035	180.03312	5.07181	0.1147433	0.31337418	2.1466467	21	5 12.4	19.0
141557 2002 GY_{69}	14.1	X	131.87592	145.59882	89.55222	4.08212	0.1166878	0.12469989	3.9678813	21	10 22.3	20.2
141558 2002 GZ_{73}	16.8	X	37.07394	75.89286	114.55695	5.27463	0.0412465	0.31130086	2.1561675	21	4 15.7	19.0
141559 2002 GQ_{76}	16.4	X	357.17438	259.45318	71.01699	6.88078	0.1737854	0.27203556	2.3589511	21	9 23.9	18.4
141560 2002 GE_{78}	16.9	X	121.56404	317.00922	279.48255	1.68605	0.1806471	0.27761459	2.3272401	21	10 31.3	20.6
141561 2002 GL_{79}	16.7	X	337.00165	295.95049	325.81446	3.28543	0.1185695	0.31209757	2.1524965	21	4 8.9	18.6
141562 2002 GY_{86}	14.8	X	280.73497	325.51280	137.93457	17.52934	0.1019249	0.18204946	3.0832574	21	11 3.6	19.3
141563 2002 GQ_{94}	16.3	X	355.73821	30.90165	233.85125	5.99033	0.0651766	0.26413336	2.4057687	21	5 31.0	18.8
141564 2002 GE_{101}	16.6	X	186.70503	315.77376	351.36890	2.17790	0.1693092	0.29553045	2.2322075	21	—	—
141565 2002 GS_{103}	16.9	X	228.44819	279.43481	12.24388	3.19953	0.1564196	0.29978074	2.2110585	21	1 9.1	20.2
141566 2002 GB_{107}	16.8	X	193.26547	129.46612	106.38662	4.68090	0.1840631	0.28839958	2.2688527	21	—	—
141567 2002 GC_{108}	16.6	X	166.40280	187.49669	125.01390	6.30684	0.1607890	0.29313300	2.2443620	21	—	—
141568 2002 GG_{111}	16.8	X	266.23796	161.31474	160.05418	4.96014	0.1533352	0.30914446	2.1661826	21	3 24.7	19.8
141569 2002 GT_{111}	17.0	X	158.41248	144.60444	154.63443	6.79486	0.1396560	0.28949169	2.2631429	21	—	—
141570 2002 GT_{125}	17.5	X	118.52607	65.12421	195.71923	2.35313	0.2050340	0.28012236	2.3133297	21	11 29.9	21.3
141571 2002 GA_{127}	16.0	X	149.47040	125.56124	193.58082	2.35383	0.2202724	0.23803481	2.5785511	21	—	—
141572 2002 GB_{128}	15.8	X	233.77536	179.92538	193.52888	8.92168	0.2188811	0.26426376	2.4049773	21	4 28.8	19.7
141573 2002 GC_{132}	15.9	X	202.63070	74.60352	17.38693	4.98730	0.0797494	0.21929999	2.7233929	21	7 17.3	19.9
141574 2002 GZ_{137}	14.9	X	155.28524	127.99002	106.60083	10.09355	0.0534079	0.17986173	3.1082090	21	11 19.3	19.6
141575 2002 GD_{142}	15.8	X	322.75066	25.68219	111.70181	2.49865	0.0866296	0.24141655	2.5544144	21	—	—
141576 2002 GH_{142}	16.2	X	312.59919	237.89829	59.99900	6.68983	0.1159577	0.25976688	2.4326532	21	5 2.7	19.0
141577 2002 GS_{149}	12.7	X	18.03781	42.91288	356.78237	3.52973	0.0464688	0.08204270	5.2453697	21	12 4.9	19.4
141578 2002 GT_{159}	17.3	X	261.30575	267.82098	334.91606	6.47745	0.1431230	0.29881554	2.2158172	21	—	—
141579 2002 GJ_{161}	16.5	X	155.38363	194.24700	70.54466	7.82982	0.0746095	0.28534911	2.2849939	21	—	—
141580 2002 GU_{164}	15.8	X	6.79565	312.43762	169.21251	3.87961	0.0443018	0.24537671	2.5268560	21	—	—
141581 2002 GQ_{167}	16.5	X	144.05994	292.03123	37.32976	5.35986	0.1613157	0.29181820	2.2510983	21	—	—
141582 2002 GC_{169}	16.6	X	164.73263	261.96150	7.58503	6.33435	0.0936567	0.28753335	2.2734072	21	—	—
141583 2002 GB_{171}	16.6	X	184.34268	323.70247	269.76764	3.24321	0.1193386	0.28735073	2.2743703	21	12 30.5	19.8
141584 2002 GU_{178}	12.7	X	351.63675	162.77522	277.93076	3.13317	0.0234529	0.08430037	5.1512949	21	12 18.7	19.4
141585 2002 HE	15.9	X	136.03855	11.08452	49.29585	22.21124	0.0904800	0.35656013	1.9696128	21	3 19.5	18.6
141586 2002 HQ	16.1	X	141.40546	191.58216	94.69690	6.41641	0.1606819	0.28469098	2.2885140	21	—	—
141587 2002 HW_{2}	16.8	X	320.58986	53.09349	146.82200	4.96464	0.0780471	0.30194866	2.2004626	21	—	—
141588 2002 HY_{2}	17.0	X	301.31527	89.87651	159.54673	4.38772	0.1613515	0.30429956	2.1891146	21	1 24.9	20.0
141589 2002 HA_{3}	17.0	X	230.70357	246.04398	48.75001	4.17547	0.1772067	0.29771007	2.2212991	21	1 15.7	20.6
141590 2002 HS_{6}	16.8	X	194.69982	339.23872	322.07767	4.31716	0.1933321	0.29374733	2.2412318	21	—	—
141591 2002 HC_{9}	17.1	X	292.86716	81.22933	172.35942	6.59334	0.1579636	0.30377762	2.1916214	21	1 20.9	20.2
141592 2002 HN_{10}	16.9	X	140.98666	41.35902	220.80897	2.58825	0.1537664	0.28218809	2.3020262	21	12 20.5	20.5
141593 2002 HK_{12}	18.2	X	243.45575	2.25298	307.00660	2.34952	0.5289585	0.34800589	2.0017584	21	2 1.8	22.5
141594 2002 HN_{12}	17.6	X	276.62493	173.88734	73.16837	0.50101	0.1734814	0.29883481	2.2157219	21	—	—
141595 2002 HY_{12}	16.1	X	148.49614	306.76391	82.60600	24.50872	0.0484291	0.35481401	1.9760695	21	1 30.5	18.6
141596 2002 HA_{14}	15.5	X	50.42524	160.98755	138.26631	24.05368	0.2071371	0.26930845	2.3748493	21	11 18.6	19.3
141597 2002 HG_{17}	16.3	X	106.14594	117.88201	177.61384	1.52274	0.0570139	0.23210560	2.6222795	21	12 15.3	19.9
141598 2002 JJ	16.3	X	130.38330	71.36829	167.68317	6.14674	0.0990799	0.27832502	2.3232782	21	11 11.8	19.7
141599 2002 JL	16.5	X	253.09120	56.76193	175.38819	6.02277	0.1050763	0.29497444	2.2350117	21	—	—
141600 2002 JA_{2}	16.0	X	307.22424	342.27353	173.12366	6.23705	0.1866723	0.29352602	2.2423581	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
141601 2002 JS_{4}	15.6	X	120.51898	145.83727	132.69241	24.67688	0.2146846	0.27904084	2.3193033	21	12 25.3	19.8
141602 2002 JT_{4}	16.5	X	108.43905	105.19980	122.56437	24.04511	0.0434061	0.37522963	1.9037268	21	10 20.9	19.3
141603 2002 JX_{4}	17.1	X	150.28475	346.34518	272.86059	2.10213	0.2123893	0.28314125	2.2968570	21	12 23.8	20.7
141604 2002 JB_{5}	16.1	X	281.42712	40.96428	230.36382	3.94964	0.1490469	0.30379875	2.1915198	21	2 1.4	19.2
141605 2002 JC_{10}	16.3	X	219.33910	232.24313	124.95621	24.71023	0.0957253	0.35619840	1.9709461	21	3 27.7	19.4
141606 2002 JD_{10}	16.1	X	119.78394	60.04474	185.17058	22.23566	0.2364874	0.27397303	2.3478166	21	11 14.4	20.4
141607 2002 JG_{11}	14.6	X	58.09770	216.84855	63.96584	7.43304	0.0687934	0.16933989	3.2356623	21	9 27.1	19.1
141608 2002 JY_{11}	16.4	X	275.09117	264.85806	35.11860	7.07448	0.1497770	0.30458435	2.1877498	21	3 8.9	19.4
141609 2002 JB_{12}	16.3	X	176.58865	255.63555	39.63263	7.39469	0.1892276	0.28917091	2.2648163	21	—	—
141610 2002 JK_{12}	16.7	X	248.57893	217.46317	85.33971	6.28429	0.1996402	0.30153382	2.2024803	21	2 10.3	20.2
141611 2002 JP_{12}	15.6	X	155.93160	75.91377	224.49455	20.49391	0.2644597	0.28707628	2.2758196	21	—	—
141612 2002 JA_{13}	16.7	X	311.84692	105.20052	152.27676	2.89277	0.1740330	0.30456522	2.1878414	21	2 16.2	19.1
141613 2002 JZ_{14}	16.7	X	251.50692	127.72403	180.09034	4.41654	0.2171384	0.30256860	2.1974558	21	2 15.2	20.1
141614 2002 JV_{15}	19.3	X	57.44766	127.37253	200.63222	7.18513	0.5363894	0.47636320	1.6237179	21	—	—
141615 2002 JQ_{17}	16.3	X	281.06607	117.91669	25.06189	3.18150	0.1630907	0.23751814	2.5822891	21	12 22.9	18.9
141616 2002 JU_{20}	16.7	X	211.45058	185.71483	89.54405	7.71712	0.1936872	0.29255837	2.2472999	21	—	—
141617 2002 JQ_{24}	16.6	X	283.33079	143.99375	97.14472	3.38776	0.1058819	0.29943718	2.2127494	21	1 1.5	19.5
141618 2002 JH_{25}	16.0	X	198.58875	228.69061	64.73808	7.24559	0.1700809	0.29365473	2.2417029	21	—	—
141619 2002 JH_{26}	16.4	X	169.91231	160.71311	126.20697	4.36246	0.1812720	0.28827868	2.2694870	21	—	—
141620 2002 JR_{30}	16.3	X	190.63348	227.98689	74.80327	7.50502	0.1658446	0.29234224	2.2484074	21	—	—
141621 2002 JY_{32}	16.8	X	310.20769	28.30795	224.25392	4.83088	0.2037707	0.30316705	2.1945630	21	2 1.8	19.8
141622 2002 JH_{33}	16.7	X	201.74814	91.07005	174.70990	6.06863	0.1300449	0.28930843	2.2640985	21	—	—
141623 2002 JJ_{34}	16.6	X	135.86871	34.82717	217.58887	8.51834	0.2011845	0.27862255	2.3216240	21	12 3.8	20.4
141624 2002 JP_{34}	16.5	X	173.12510	205.85559	81.72201	5.63286	0.2019077	0.28717985	2.2752724	21	—	—
141625 2002 JY_{34}	17.0	X	153.65937	106.00816	142.00748	2.21305	0.1357193	0.28074833	2.3098898	21	12 15.2	20.4
141626 2002 JA_{37}	16.8	X	299.22667	52.75560	183.94186	23.74256	0.1676482	0.30136098	2.2033223	21	1 4.4	20.6
141627 2002 JM_{37}	16.6	X	135.32231	24.65835	284.42071	4.62392	0.2024024	0.28529360	2.2852902	21	—	—
141628 2002 JR_{38}	16.7	X	211.27188	267.17821	3.77743	3.50203	0.1152811	0.29268039	2.2466753	21	—	—
141629 2002 JM_{43}	16.6	X	133.64715	302.51432	332.13946	4.75867	0.1525882	0.28228548	2.3014967	21	12 29.6	20.2
141630 2002 JY_{48}	16.3	X	183.19830	353.73234	251.99239	3.99175	0.1188485	0.28551650	2.2841007	21	—	—
141631 2002 JL_{49}	16.3	X	180.80207	250.35943	7.59820	3.94771	0.1384722	0.28616924	2.2806261	21	—	—
141632 2002 JT_{49}	16.6	X	196.57169	11.70586	254.17553	2.41010	0.1268894	0.28942545	2.2634882	21	—	—
141633 2002 JQ_{50}	17.0	X	328.66709	57.44186	245.12029	1.47311	0.1308979	0.31260247	2.1501782	21	5 30.0	18.6
141634 2002 JC_{51}	16.1	X	217.71022	290.99050	349.18613	3.73932	0.2045761	0.24157798	2.5532763	21	—	—
141635 2002 JV_{51}	16.9	X	343.06662	23.02422	264.43746	0.93870	0.1006344	0.31294105	2.1486270	21	6 6.9	18.4
141636 2002 JF_{52}	16.4	X	238.76255	16.84587	250.83662	6.76670	0.1605134	0.29475716	2.2361099	21	—	—
141637 2002 JJ_{53}	17.0	X	280.12204	241.84495	5.45144	3.95621	0.0923911	0.30021904	2.2089060	21	1 7.7	19.9
141638 2002 JA_{55}	16.2	X	169.97751	46.73842	233.88074	6.72967	0.1161522	0.28773913	2.2723232	21	—	—
141639 2002 JB_{55}	16.8	X	325.80166	209.89336	18.65844	1.48945	0.0893943	0.30398533	2.1906230	21	2 9.0	19.1
141640 2002 JL_{55}	16.5	X	160.21669	261.44787	51.91154	6.08420	0.1695066	0.28954490	2.2628657	21	—	—
141641 2002 JZ_{55}	17.2	X	245.82404	240.21364	27.59935	0.42313	0.1506255	0.29645605	2.2275588	21	—	—
141642 2002 JK_{56}	16.7	X	336.73865	334.32495	243.10236	6.79781	0.0207287	0.30457001	2.1878185	21	2 15.8	19.3
141643 2002 JU_{56}	17.7	X	317.25791	98.77092	160.04803	1.22227	0.2034982	0.30572593	2.1823004	21	2 20.4	20.3
141644 2002 JV_{59}	16.9	X	263.04314	258.06561	32.36305	5.69340	0.1209492	0.30108248	2.2046808	21	2 13.6	20.0
141645 2002 JW_{59}	16.7	X	105.33638	264.90774	39.21918	6.15091	0.1934406	0.27903253	2.3193493	21	—	—
141646 2002 JS_{62}	15.9	X	175.64352	180.80192	168.77500	5.21493	0.1904144	0.29571005	2.2313036	21	2 2.5	19.3
141647 2002 JT_{62}	16.6	X	269.02068	75.30274	150.95031	5.18590	0.1153367	0.29461962	2.2368058	21	—	—
141648 2002 JJ_{64}	16.9	X	49.36402	70.62112	211.11506	1.96601	0.1919225	0.26915918	2.3757273	21	10 13.5	19.5
141649 2002 JW_{65}	15.6	X	150.25716	58.84198	232.94523	21.02921	0.1813919	0.28371183	2.2937764	21	—	—
141650 2002 JD_{66}	16.9	X	330.61915	165.37007	100.14287	5.58617	0.1735793	0.30712617	2.1756624	21	3 30.9	19.0
141651 2002 JO_{67}	16.7	X	271.34885	282.58432	31.46748	7.26578	0.1950714	0.30648551	2.1786932	21	3 18.3	19.8
141652 2002 JL_{71}	16.6	X	233.48898	80.47597	151.73425	6.29279	0.1757244	0.29137040	2.2534042	21	—	—
141653 2002 JN_{71}	16.3	X	258.19082	136.87109	132.78851	6.68969	0.1479669	0.29894628	2.2151711	21	1 8.8	19.5
141654 2002 JS_{71}	16.3	X	194.26004	146.73199	136.03003	6.55550	0.1694570	0.29087315	2.2559716	21	—	—
141655 2002 JP_{73}	16.7	X	307.14837	56.10515	168.34337	7.14800	0.1774854	0.30021479	2.2089268	21	—	—
141656 2002 JQ_{73}	16.4	X	186.66396	165.98239	118.81131	8.70958	0.1304594	0.28939184	2.2636635	21	—	—
141657 2002 JS_{75}	16.9	X	267.97576	222.13674	55.39160	8.07773	0.1436074	0.30030143	2.2085019	21	1 31.6	20.2
141658 2002 JC_{76}	16.7	X	219.70898	280.55014	20.27148	6.54013	0.1205479	0.29998701	2.2100448	21	1 12.4	20.0
141659 2002 JB_{79}	16.7	X	196.74434	33.42742	237.29573	6.01370	0.1058355	0.29188512	2.2507542	21	—	—
141660 2002 JK_{81}	16.9	X	297.47259	95.92438	204.33046	1.73932	0.1559507	0.30971643	2.1635149	21	3 31.2	19.4
141661 2002 JR_{82}	16.9	X	89.46918	250.60558	48.55021	2.72307	0.2375488	0.27775510	2.3264552	21	12 23.2	20.6
141662 2002 JX_{83}	18.2	X	267.60132	303.16085	325.92353	0.60926	0.2041748	0.29979478	2.2109894	21	1 14.1	21.7
141663 2002 JX_{86}	16.7	X	209.31803	226.53703	12.80997	2.32579	0.0627661	0.28874812	2.2670266	21	—	—
141664 2002 JQ_{88}	16.7	X	245.09222	220.47230	40.25519	6.30066	0.0634748	0.29741993	2.2227434	21	—	—
141665 2002 JG_{89}	17.3	X	121.98598	72.98994	228.89305	4.20932	0.1940108	0.28276124	2.2989144	21	—	—
141666 2002 JV_{92}	17.1	X	27.79448	3.52904	270.79352	1.53072	0.1182451	0.31749182	2.1280460	21	8 19.2	18.8
141667 2002 JN_{93}	16.8	X	219.07708	98.75657	244.42844	2.21702	0.0930401	0.30292551	2.1957294	21	3 4.6	19.9
141668 2002 JR_{94}	16.4	X	147.87857	13.49477	236.45440	6.88044	0.0960129	0.28045201	2.3115166	21	12 12.9	19.6
141669 2002 JV_{95}	17.3	X	181.32141	232.10101	354.62113	1.86586	0.1696009	0.28241849	2.3007740	21	12 13.3	20.6
141670 2002 JS_{100}	16.8	X	24.30448	192.08320	144.20933	13.32044	0.4851358	0.26763073	2.3847639	21	—	—
141671 2002 JV_{101}	16.7	X	44.17161	74.71126	230.24106	12.36137	0.2323117	0.27014534	2.3699421	21	11 13.9	19.5
141672 2002 JP_{103}	17.2	X	209.83291	57.61256	192.58332	4.43785	0.1621472	0.28933154	2.2639780	21	—	—
141673 2002 JB_{105}	16.9	X	267.88418	166.09888	80.83824	3.90540	0.1983706	0.29634477	2.2281164	21	—	—
141674 2002 JC_{105}	17.0	X	273.70813	23.80545	223.98100	6.01994	0.1509884	0.29721693	2.2237554	21	—	—
141675 2002 JO_{105}	16.3	X	148.50226	25.87428	226.86135	9.03677	0.2234232	0.27978508	2.3151885	21	12 13.8	20.2
141676 2002 JV_{105}	16.4	X	220.53295	144.42853	92.63087	7.33038	0.0630795	0.28809724	2.2704398	21	—	—
141677 2002 JC_{110}	16.6	X	313.75008	231.98721	357.66139	5.01296	0.1060178	0.30182829	2.2010475	21	1 23.7	19.3
141678 2002 JM_{111}	16.3	X	158.36975	346.84179	303.43001	4.50176	0.1903434	0.28505924	2.2865426	21	—	—
141679 2002 JW_{111}	16.5	X	235.86231	325.90217	329.05526	2.89095	0.1713393	0.29761349	2.2217796	21	1 20.1	19.9
141680 2002 JT_{112}	16.3	X	127.47554	257.53636	57.50168	6.88826	0.1384348	0.28410688	2.2916496	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
141681 2002 JU_{112}	16.7	X	209.68016	273.98369	34.21157	4.30558	0.1823274	0.29445349	2.2376470	21	1 14.4	20.3
141682 2002 JZ_{112}	16.8	X	117.07380	46.10573	248.94073	4.10478	0.2032004	0.27959332	2.3162469	21	—	—
141683 2002 JG_{125}	16.3	X	151.58213	291.68029	7.48272	6.10373	0.1049092	0.28840653	2.2688162	21	—	—
141684 2002 JS_{126}	16.2	X	146.83385	279.84357	66.64622	8.38753	0.1751430	0.29379856	2.2409712	21	—	—
141685 2002 JG_{130}	16.8	X	163.17268	173.33238	125.85185	4.98024	0.1860627	0.28773457	2.2723472	21	—	—
141686 2002 JX_{130}	18.0	X	304.09636	80.43480	212.70853	4.10702	0.0969972	0.30829981	2.1701373	21	4 8.8	20.3
141687 2002 JB_{132}	16.7	X	219.68170	325.27036	322.99719	5.07099	0.1625901	0.29610835	2.2293022	21	—	—
141688 2002 JE_{133}	16.7	X	58.97278	298.49280	1.89033	3.58852	0.1749735	0.27399485	2.3476920	21	11 17.2	19.8
141689 2002 JN_{139}	16.6	X	318.98991	319.39753	271.28913	4.72927	0.1131666	0.30353943	2.1927678	21	1 27.9	19.1
141690 2002 JM_{143}	17.2	X	203.24069	69.29584	234.06394	2.84786	0.2886128	0.29404365	2.2397257	21	1 6.2	21.0
141691 2002 JB_{146}	15.8	X	192.60131	134.10366	149.65773	15.15804	0.1054681	0.23873524	2.5735050	21	—	—
141692 2002 JN_{146}	16.9	X	27.50769	141.55180	152.39993	7.62880	0.2334872	0.26619412	2.3933364	21	10 6.3	19.2
141693 2002 JZ_{146}	16.4	X	126.54805	219.76998	86.23055	7.65465	0.1301308	0.28488638	2.2874675	21	—	—
141694 2002 JW_{147}	17.1	X	152.13976	268.68285	357.48998	4.17435	0.1894976	0.28223004	2.3017981	21	—	—
141695 2002 KU_{2}	17.7	X	272.42031	37.29727	217.42144	3.31270	0.1421583	0.29842698	2.2177402	21	1 4.2	21.0
141696 2002 KE_{4}	16.0	X	80.70437	142.88154	165.47933	23.65270	0.2461012	0.27492783	2.3423777	21	12 27.9	20.3
141697 2002 KQ_{5}	17.1	X	173.24744	130.94850	140.29769	0.74609	0.1381564	0.28582047	2.2824810	21	—	—
141698 2002 KP_{8}	17.3	X	78.97838	125.57449	168.39985	6.48948	0.2763112	0.27351338	2.3504463	21	12 11.1	21.3
141699 2002 KY_{10}	15.2	X	224.08222	246.61807	312.76666	6.50309	0.2870913	0.18440279	3.0569691	21	11 24.3	20.3
141700 2002 KJ_{11}	16.4	X	186.04186	238.32713	84.69001	7.88087	0.1751591	0.29567032	2.2315034	21	1 10.1	19.6
141701 2002 KM_{15}	14.5	X	157.06135	48.68212	174.70835	2.69255	0.1253099	0.12424869	3.9774816	21	10 31.0	20.7
141702 2002 LG_{4}	17.1	X	148.35454	169.96401	126.63019	3.05830	0.2309709	0.28341358	2.2953854	21	—	—
141703 2002 LJ_{4}	16.3	X	153.28618	204.78254	85.10322	6.69328	0.1949376	0.28446617	2.2897196	21	—	—
141704 2002 LK_{4}	16.4	X	87.44152	237.98276	100.61709	6.62615	0.1613310	0.28073416	2.3099675	21	—	—
141705 2002 LA_{5}	16.3	X	349.36089	353.21466	301.34083	5.43674	0.1901583	0.26235164	2.4166487	21	6 27.9	18.0
141706 2002 LC_{6}	15.9	X	306.13823	359.60474	321.94043	2.00392	0.1920178	0.25422039	2.4679089	21	5 12.5	18.9
141707 2002 LD_{7}	16.5	X	127.48453	85.86605	185.11342	6.37297	0.0881062	0.27973491	2.3154653	21	12 18.0	19.9
141708 2002 LU_{7}	16.7	X	153.11811	246.52305	88.32741	3.91527	0.2046278	0.28999354	2.2605312	21	—	—
141709 2002 LP_{8}	16.7	X	292.14352	162.41513	105.17693	6.50486	0.1530746	0.30199444	2.2002402	21	2 11.1	19.6
141710 2002 LQ_{8}	16.0	X	122.67687	217.45950	93.07190	8.30399	0.2352177	0.28138232	2.3064188	21	—	—
141711 2002 LX_{9}	16.4	X	147.59932	172.39365	123.22656	4.69170	0.2288106	0.28317680	2.2966647	21	—	—
141712 2002 LY_{9}	16.3	X	165.32493	158.48352	113.08613	5.13814	0.1699364	0.28377204	2.2934520	21	—	—
141713 2002 LB_{10}	17.1	X	289.21657	64.37762	183.47312	4.56260	0.0990860	0.29925338	2.2136554	21	1 16.8	19.9
141714 2002 LS_{12}	16.2	X	178.77283	169.57521	115.75014	6.23061	0.1297577	0.28711307	2.2756252	21	—	—
141715 2002 LJ_{13}	16.6	X	259.75175	59.12993	182.61683	11.41726	0.2439901	0.24366723	2.5386605	21	—	—
141716 2002 LU_{13}	17.0	X	265.61213	13.10935	271.84649	3.69219	0.1185535	0.30050785	2.2074905	21	2 5.8	19.9
141717 2002 LC_{14}	17.3	X	95.27297	346.14515	294.82556	1.52196	0.2078346	0.27492452	2.3423964	21	12 3.6	20.9
141718 2002 LV_{17}	16.8	X	98.98476	58.02107	247.98726	2.51873	0.2439562	0.27725553	2.3292489	21	—	—
141719 2002 LA_{19}	16.9	X	77.93485	64.74550	222.91081	2.37849	0.2568885	0.27206945	2.3587551	21	11 30.4	20.7
141720 2002 LS_{19}	16.5	X	179.18430	193.55684	77.10612	4.10848	0.2062671	0.28416829	2.2913195	21	—	—
141721 2002 LY_{19}	16.6	X	27.59921	210.02143	62.04065	2.38265	0.1937130	0.26228608	2.4170514	21	8 24.5	18.7
141722 2002 LS_{20}	16.4	X	221.40262	208.80481	74.03678	4.98650	0.1663475	0.29060784	2.2573444	21	—	—
141723 2002 LB_{21}	17.0	X	278.54072	13.53940	268.04103	6.42768	0.1862779	0.29896706	2.2150685	21	2 8.0	20.3
141724 2002 LG_{21}	16.5	X	126.08495	184.63505	101.94661	7.56635	0.2066877	0.27716981	2.3297291	21	—	—
141725 2002 LU_{21}	16.8	X	216.28360	196.83125	59.08727	9.20963	0.1511943	0.29015390	2.2596982	21	—	—
141726 2002 LA_{22}	16.8	X	52.53703	264.04371	32.75215	1.58615	0.1866012	0.27050652	2.3678320	21	11 6.6	19.7
141727 2002 LQ_{22}	16.8	X	94.35941	58.85659	260.95127	5.23373	0.2527232	0.27807269	2.3246835	21	—	—
141728 2002 LK_{23}	16.3	X	137.30446	220.71829	84.90491	8.06310	0.1444576	0.28138638	2.3063966	21	—	—
141729 2002 LN_{23}	15.1	X	113.02493	37.35485	276.98058	27.93248	0.1892344	0.27824023	2.3237502	21	—	—
141730 2002 LY_{23}	16.0	X	74.92850	17.42971	284.67072	5.05070	0.2054501	0.27219012	2.3580579	21	12 10.4	19.6
141731 2002 LF_{24}	16.7	X	50.55691	133.51205	198.08439	4.19366	0.2548418	0.26983901	2.3717354	21	12 27.9	20.1
141732 2002 LU_{25}	16.3	X	110.11301	230.98429	91.40609	11.46141	0.2164884	0.28059707	2.3107199	21	—	—
141733 2002 LN_{27}	16.4	X	117.66903	194.80742	83.38838	6.39873	0.2235197	0.27495611	2.3422170	21	12 19.5	20.4
141734 2002 LK_{28}	16.5	X	238.86359	54.86112	210.94131	4.38445	0.1473761	0.29340303	2.2429848	21	—	—
141735 2002 LO_{28}	16.5	X	305.73268	344.53718	206.17361	5.28639	0.1268919	0.29427433	2.2385551	21	—	—
141736 2002 LC_{29}	16.4	X	198.96244	104.37579	166.20934	4.81011	0.2246906	0.28561964	2.2835507	21	—	—
141737 2002 LD_{29}	16.3	X	77.89313	143.69466	183.70785	4.77718	0.1937288	0.27353576	2.3503181	21	—	—
141738 2002 LM_{29}	16.4	X	203.06713	58.11862	247.49773	6.91925	0.1607958	0.28925697	2.2643671	21	1 3.5	19.9
141739 2002 LO_{30}	16.9	X	271.46553	31.79375	180.81822	4.55117	0.1060603	0.29298405	2.2451226	21	—	—
141740 2002 LO_{31}	16.2	X	184.82855	248.34484	68.41084	7.22235	0.1789169	0.29354132	2.2422802	21	1 1.5	19.5
141741 2002 LP_{36}	15.5	X	52.31216	34.61551	273.07466	14.09806	0.2125833	0.26730826	2.3866815	21	11 22.9	18.8
141742 2002 LT_{36}	16.1	X	169.80196	78.30826	255.36001	6.65550	0.3148768	0.28583570	2.2823999	21	1 19.3	19.9
141743 2002 LD_{37}	16.4	X	144.72701	120.68299	173.82672	6.81293	0.1366737	0.27931504	2.3177851	21	—	—
141744 2002 LZ_{37}	16.7	X	282.73334	260.20231	114.62366	24.50498	0.0777345	0.36468279	1.9402567	21	7 15.1	18.0
141745 2002 LA_{40}	16.3	X	163.92487	206.18345	91.39635	25.75586	0.1980850	0.28614556	2.2807519	21	—	—
141746 2002 LO_{44}	17.0	X	101.49229	5.97098	295.86691	2.16032	0.1755916	0.27882117	2.3205213	21	—	—
141747 2002 LO_{45}	16.5	X	209.35906	121.16915	236.25568	4.45950	0.1944455	0.30121725	2.2040232	21	3 13.0	20.1
141748 2002 LK_{47}	16.3	X	233.42127	172.36393	175.09226	2.41163	0.2105293	0.30302473	2.1952501	21	3 22.9	19.8
141749 2002 LW_{47}	16.1	X	82.61988	165.33111	163.54622	12.75621	0.2469798	0.27471883	2.3435655	21	—	—
141750 2002 LG_{50}	16.8	X	263.48148	183.78307	111.57133	7.14041	0.1445621	0.30130588	2.2035909	21	2 17.9	19.9
141751 2002 LM_{51}	15.6	X	84.45883	317.82091	89.48951	13.76934	0.1609166	0.24137374	2.5547164	21	1 1.5	18.3
141752 2002 LK_{52}	17.1	X	308.28568	104.93298	168.82910	5.07446	0.2251195	0.30217254	2.1993755	21	2 26.7	19.7
141753 2002 LL_{53}	16.4	X	120.52585	221.50060	120.75314	10.47874	0.2810734	0.28465928	2.2886839	21	—	—
141754 2002 LU_{53}	16.6	X	298.66056	346.80488	165.35784	8.12389	0.0458332	0.28814230	2.2702031	21	—	—
141755 2002 LN_{55}	16.8	X	269.11395	3.11969	247.26933	2.87538	0.2078821	0.29450826	2.2373696	21	—	—
141756 2002 LP_{58}	16.2	X	205.33605	197.99155	94.66888	5.59528	0.2809457	0.28781595	2.2719188	21	—	—
141757 2002 LY_{58}	16.5	X	151.55275	338.88148	296.76875	6.27229	0.1002434	0.27992344	2.3144255	21	—	—
141758 2002 LK_{60}	16.5	X	134.80476	96.53584	174.63715	9.98959	0.2528819	0.27820082	2.3239696	21	12 24.8	20.7
141759 2002 LC_{61}	17.1	X	247.53837	103.10941	147.77862	5.87796	0.0804333	0.29397158	2.2400918	21	—	—
141760 2002 LQ_{61}	16.9	X	287.22614	210.44168	158.88936	4.29819	0.2017116	0.25733431	2.4479596	21	6 21.3	20.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
141761 2002 MC	17.2	X	210.18266	159.87331	151.53938	18.90147	0.5083261	0.23806017	2.5783679	21	1 27.8	22.8
141762 2002 MR	16.6	X	57.60457	308.01285	340.28488	1.75704	0.2069423	0.26921962	2.3753717	21	11 3.7	19.6
141763 2002 ML_1	16.2	X	137.32788	114.69280	178.78689	21.27999	0.2370605	0.28046678	2.3114354	21	—	—
141764 2002 MG_2	16.9	X	204.81596	39.54059	254.29407	4.12882	0.2012112	0.28903024	2.2655511	21	—	—
141765 2002 MP_3	16.3	X	197.03891	270.14192	100.33182	33.06894	0.4690541	0.34854930	1.9996773	21	4 9.3	21.2
141766 2002 MB_4	16.9	X	86.66985	320.76848	0.12007	2.45125	0.2079336	0.27506748	2.3415848	21	—	—
141767 2002 NL_1	16.5	X	47.70226	105.20786	132.01057	2.06091	0.1473482	0.25915543	2.4364781	21	7 29.6	19.0
141768 2002 NG_2	16.1	X	117.53300	70.30411	280.65237	6.50128	0.1491650	0.28259455	2.2998183	21	—	—
141769 2002 NN_2	14.8	X	171.95429	323.16044	316.29635	14.21768	0.1746384	0.17867130	3.1219996	21	—	—
141770 2002 NS_2	16.7	X	106.25476	341.86683	315.82952	1.75568	0.2174395	0.27525984	2.3404937	21	—	—
141771 2002 NC_4	17.2	X	117.54751	336.99978	282.36449	1.57096	0.1892611	0.27339720	2.3511122	21	11 25.3	20.9
141772 2002 NM_5	16.7	X	316.20942	320.24624	284.39579	4.72073	0.0992175	0.29903609	2.2147276	21	2 15.2	19.2
141773 2002 NW_6	16.4	X	85.27768	253.28459	157.55479	6.91822	0.0851474	0.28684886	2.2770224	21	—	—
141774 2002 NG_8	16.2	X	10.50743	151.98024	133.21849	15.29480	0.1442028	0.25956923	2.4338879	21	7 31.8	18.4
141775 2002 NR_8	16.4	X	20.23503	130.51963	213.86838	3.49142	0.2005078	0.26773422	2.3841494	21	11 28.6	18.9
141776 2002 NY_8	16.3	X	79.31444	242.24679	117.84017	6.31810	0.2863276	0.27680089	2.3317987	21	—	—
141777 2002 ND_{10}	16.5	X	68.29300	182.69480	133.00015	2.71669	0.2160060	0.27184370	2.3600608	21	12 22.1	19.9
141778 2002 NE_{10}	16.8	X	75.87254	6.33026	287.21287	1.48680	0.2121916	0.27087908	2.3656604	21	12 1.1	20.4
141779 2002 NP_{10}	16.8	X	51.94305	231.58212	138.15508	3.02702	0.2292539	0.27485601	2.3427857	21	—	—
141780 2002 NY_{11}	16.6	X	63.11938	213.41544	114.97142	3.79147	0.1753777	0.27179912	2.3603189	21	12 28.4	20.0
141781 2002 NG_{12}	16.5	X	32.71976	249.22114	115.18096	6.44604	0.2312800	0.27112055	2.3642556	21	—	—
141782 2002 NN_{12}	16.4	X	265.26043	180.71409	197.62822	2.15133	0.2024619	0.25482544	2.4640009	21	6 6.1	19.8
141783 2002 NY_{12}	17.0	X	105.56843	129.40448	175.92984	2.15939	0.2305547	0.27566179	2.3382180	21	—	—
141784 2002 NV_{13}	16.6	X	270.00050	218.94718	148.20546	1.82003	0.2595318	0.25298148	2.4759597	21	5 20.8	20.3
141785 2002 ND_{14}	16.6	X	19.75237	183.89796	139.70926	2.55922	0.1895875	0.26461784	2.4028314	21	10 27.2	18.9
141786 2002 NW_{14}	17.1	X	140.32848	243.25486	75.57613	6.76998	0.2290168	0.28205382	2.3027567	21	—	—
141787 2002 NE_{20}	14.6	X	115.46800	68.51152	297.67165	9.43132	0.0866001	0.17933779	3.1142599	21	—	—
141788 2002 NL_{20}	16.8	X	171.24727	147.60412	165.11602	6.96628	0.1429592	0.28538703	2.2847914	21	—	—
141789 2002 NS_{20}	14.8	X	110.80003	131.84640	188.40722	5.63818	0.1558358	0.17265288	3.1941367	21	—	—
141790 2002 NP_{21}	16.8	X	294.93483	23.99827	236.18065	4.38065	0.1928789	0.29821938	2.2187693	21	1 28.5	19.9
141791 2002 NK_{22}	16.5	X	84.07872	207.77290	146.43313	8.46072	0.1927800	0.27666134	2.3325828	21	—	—
141792 2002 NH_{23}	17.3	X	302.64957	115.88620	151.27641	4.05763	0.1727874	0.29999409	2.2100100	21	2 19.0	20.0
141793 2002 NK_{23}	16.7	X	258.24923	351.24580	266.85362	6.66473	0.1698804	0.29242530	2.2479816	21	—	—
141794 2002 NP_{23}	17.0	X	150.08256	93.46022	207.42078	2.13843	0.1872569	0.28102064	2.3083974	21	—	—
141795 2002 NJ_{26}	16.5	X	98.33751	155.84750	165.91158	6.34002	0.2584780	0.27452561	2.3446650	21	—	—
141796 2002 NO_{26}	16.0	X	7.66560	67.05490	315.11401	5.94463	0.1314839	0.26792245	2.3830326	21	12 20.2	18.7
141797 2002 ND_{29}	16.1	X	67.55561	216.94916	107.96392	8.94133	0.1776635	0.27181301	2.3602385	21	12 28.9	19.5
141798 2002 NQ_{30}	16.0	X	202.44405	185.43394	193.42802	3.87055	0.1912193	0.24502423	2.5292788	21	4 9.9	20.1
141799 2002 NS_{31}	17.3	X	56.83933	157.03289	190.77594	9.54253	0.2343840	0.27236648	2.3570399	21	—	—
141800 2002 NO_{33}	15.5	X	119.50269	45.20196	307.84542	12.61459	0.1893853	0.22634506	2.6665846	21	—	—
141801 2002 NH_{35}	16.5	X	280.92532	165.68822	191.58303	6.13320	0.1201133	0.25445029	2.4664221	21	6 9.1	19.7
141802 2002 NV_{35}	17.0	X	43.41562	139.47626	185.14568	6.34960	0.1457681	0.26801321	2.3824945	21	11 26.8	20.0
141803 2002 NY_{35}	16.2	X	55.86121	70.89376	235.61124	6.07256	0.1287653	0.26774617	2.3840785	21	11 14.9	19.1
141804 2002 NJ_{36}	16.1	X	333.72298	163.03047	212.24237	6.89091	0.1969576	0.26380958	2.4077368	21	10 4.4	17.7
141805 2002 NO_{36}	16.4	X	84.82560	171.57233	178.67794	7.07828	0.2109040	0.27676884	2.3319787	21	—	—
141806 2002 NF_{38}	15.6	X	345.27026	85.08277	282.95333	10.26688	0.1273160	0.26376832	2.4079879	21	10 12.3	18.3
141807 2002 NM_{38}	16.4	X	112.54970	59.34472	238.43669	4.14797	0.2443636	0.27489068	2.3425887	21	—	—
141808 2002 NV_{38}	16.1	X	191.52129	59.74824	284.15605	4.24969	0.3114163	0.28728146	2.2747359	21	2 15.6	20.1
141809 2002 NB_{39}	15.9	X	292.17191	172.50782	208.00200	8.09922	0.2515537	0.25673380	2.4517754	21	7 4.9	19.1
141810 2002 NB_{40}	16.7	X	305.08808	249.17635	99.06993	1.37716	0.2464546	0.25597046	2.4566473	21	6 10.1	19.4
141811 2002 NL_{42}	17.0	X	31.67903	235.30148	84.32066	3.36106	0.2045365	0.26557314	2.3970658	21	11 12.2	19.6
141812 2002 NE_{43}	16.5	X	169.29856	202.61643	97.11341	6.38095	0.1872686	0.28376824	2.2934724	21	—	—
141813 2002 NN_{44}	16.2	X	270.52343	355.15520	87.01871	7.37231	0.1073522	0.26746522	2.3857476	21	9 30.9	19.1
141814 2002 NP_{44}	17.0	X	29.82756	269.99985	41.63713	2.33071	0.2230600	0.26567059	2.3964795	21	10 31.6	19.6
141815 2002 NX_{44}	16.3	X	81.28720	114.24233	171.51423	6.42623	0.2144877	0.26953081	2.3735430	21	11 28.0	20.0
141816 2002 NY_{45}	16.9	X	105.38083	105.52285	172.54325	2.01954	0.2055253	0.27343660	2.3508863	21	12 8.8	20.7
141817 2002 ND_{46}	16.3	X	306.63282	98.26042	258.96224	3.57770	0.2065489	0.25825448	2.4421414	21	7 3.3	18.9
141818 2002 NH_{46}	17.3	X	275.19140	84.57374	187.19197	2.29720	0.1627690	0.29692738	2.2252009	21	1 27.2	20.4
141819 2002 NA_{49}	16.4	X	126.76161	198.82189	106.89203	7.72310	0.1324089	0.27849398	2.3223384	21	—	—
141820 2002 ND_{51}	16.5	X	140.18883	119.36614	139.99745	2.70141	0.1962804	0.27573449	2.3378070	21	12 15.1	20.2
141821 2002 NN_{51}	16.3	X	74.93511	261.74168	28.83071	3.43176	0.2243017	0.27045722	2.3681198	21	11 27.3	19.9
141822 2002 NO_{53}	16.9	X	15.59858	289.15735	17.94584	1.77328	0.2292821	0.26225332	2.4172527	21	9 29.1	18.9
141823 2002 NS_{53}	16.8	X	231.40939	269.26065	315.21459	1.96849	0.1121339	0.28316719	2.2967167	21	—	—
141824 2002 NU_{53}	17.2	X	198.72929	306.00827	295.80837	1.41378	0.1510036	0.28133971	2.3066517	21	—	—
141825 2002 NG_{54}	16.3	X	74.77945	263.31560	103.76651	7.42670	0.1447397	0.27854585	2.3220501	21	—	—
141826 2002 NH_{54}	16.0	X	353.47650	276.66649	77.33512	5.06754	0.2168339	0.26441736	2.4040458	21	10 24.8	17.7
141827 2002 NO_{54}	16.6	X	32.06781	230.67039	48.05895	2.18890	0.1462375	0.26218241	2.4176885	21	9 4.4	18.9
141828 2002 NV_{59}	16.8	X	284.75576	251.48704	106.82821	3.32218	0.1920701	0.25529622	2.4609708	21	6 4.2	20.1
141829 2002 OC	16.3	X	55.44910	51.19962	314.31911	2.77251	0.2500445	0.27429298	2.3459905	21	—	—
141830 2002 OH	16.7	X	14.21628	315.93590	50.61010	6.00028	0.2167524	0.26807271	2.3821420	21	12 22.3	19.2
141831 2002 OV_4	16.7	X	128.32950	83.61996	206.36390	6.86130	0.1252110	0.27723174	2.3293822	21	—	—
141832 2002 OY_7	16.9	X	304.11369	107.54831	292.13289	6.12987	0.1511178	0.31530772	2.1378619	21	9 16.3	18.6
141833 2002 ON_8	16.4	X	29.15308	213.65492	152.03945	3.16836	0.2490036	0.26963102	2.3729549	21	—	—
141834 2002 OT_9	15.9	X	350.38182	163.70019	239.85551	3.96271	0.1276186	0.26935131	2.3745974	21	12 21.3	18.3
141835 2002 OB_{11}	16.9	X	127.07811	109.78502	142.89330	2.84836	0.1823733	0.27230810	2.3573768	21	11 25.9	20.6
141836 2002 ON_{16}	16.6	X	142.69266	129.13569	201.51028	5.19862	0.1395228	0.28382984	2.2931406	21	—	—
141837 2002 OT_{16}	16.5	X	332.11996	167.80736	206.01479	5.57354	0.1315433	0.26400220	2.4065655	21	9 29.9	18.7
141838 2002 OE_{17}	16.6	X	54.77956	78.47685	221.88217	5.93770	0.1774913	0.26685073	2.3894088	21	11 12.6	19.5
141839 2002 OT_{20}	16.4	X	78.82052	206.14998	108.09244	3.53183	0.1805060	0.27200102	2.3591508	21	12 27.0	19.9
141840 2002 OU_{20}	16.4	X	125.46546	321.34114	348.17961	2.43236	0.1742235	0.27823015	2.3238063	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
141841 2002 OD_{21}	16.2	X	82.51428	33.56505	322.15205	4.67346	0.0987527	0.27738610	2.3285179	21	—	—
141842 2002 OS_{21}	16.9	X	66.81303	163.64903	141.64691	1.59216	0.1973714	0.26959943	2.3731403	21	12 5.5	20.2
141843 2002 OE_{22}	16.9	X	73.09426	147.42736	192.53997	3.20855	0.1587555	0.27357939	2.3500682	21	—	—
141844 2002 OL_{22}	16.0	X	76.50808	31.61060	335.97377	1.85870	0.2380460	0.27625220	2.3348853	21	—	—
141845 2002 OJ_{23}	17.1	X	352.23191	174.80331	68.19168	3.86278	0.1078307	0.30464880	2.1874413	21	4 13.9	19.0
141846 2002 OE_{26}	16.5	X	262.87829	77.57112	303.61671	1.23726	0.2738352	0.25325673	2.4741653	21	5 29.7	20.3
141847 2002 OG_{26}	16.2	X	133.70057	312.01559	23.25008	7.50715	0.1362428	0.28135496	2.3065684	21	—	—
141848 2002 OE_{27}	17.5	X	212.83868	112.31134	261.11695	1.13792	0.0456497	0.30028919	2.2085620	21	4 9.1	20.2
141849 2002 PC	16.2	X	45.54705	44.26549	325.29431	5.97330	0.2542013	0.27186308	2.3599487	21	—	—
141850 2002 PY_{4}	15.8	X	265.63089	49.40671	265.64179	11.71866	0.1582259	0.24652603	2.5189963	21	3 14.9	19.9
141851 2002 PM_{6}	17.8	X	189.10260	224.41547	304.11244	19.16874	0.8502345	0.75161028	1.1980481	21	9 13.1	20.4
141852 2002 PU_{8}	16.8	X	304.70145	325.04150	229.04769	5.55115	0.0122968	0.28819770	2.2699121	21	—	—
141853 2002 PD_{9}	16.5	X	50.22814	5.28293	236.34619	3.94512	0.1600877	0.25989982	2.4318235	21	8 9.9	19.2
141854 2002 PU_{9}	16.3	X	1.57379	151.43066	230.18741	3.69719	0.1563517	0.26803234	2.3823812	21	12 13.0	18.5
141855 2002 PP_{10}	16.5	X	32.27244	173.78121	168.11695	7.12448	0.1207357	0.26771993	2.3842342	21	12 1.1	19.5
141856 2002 PW_{11}	16.9	X	50.54371	199.53413	243.12406	2.82842	0.0634072	0.28632230	2.2798132	21	—	—
141857 2002 PS_{14}	16.2	X	31.99210	205.83601	130.76604	6.59295	0.1303446	0.26863776	2.3788005	21	11 25.6	19.0
141858 2002 PO_{17}	16.8	X	20.78865	182.45246	196.53638	1.88019	0.2247602	0.27035038	2.3687436	21	—	—
141859 2002 PC_{18}	17.1	X	22.90272	121.25340	216.62608	1.77062	0.1867230	0.26661088	2.3908416	21	11 20.9	19.7
141860 2002 PW_{20}	17.6	X	196.38415	51.36930	218.48309	1.74370	0.1428521	0.28414145	2.2914637	21	—	—
141861 2002 PD_{22}	16.7	X	76.32526	137.29497	278.12659	5.79486	0.0877459	0.28473572	2.2882743	21	—	—
141862 2002 PA_{23}	16.7	X	131.11016	46.22004	251.10083	2.22794	0.1577002	0.27774657	2.3265028	21	—	—
141863 2002 PJ_{24}	16.8	X	23.44315	62.43025	188.31824	1.33190	0.1510619	0.25680327	2.4513332	21	7 4.1	19.1
141864 2002 PC_{28}	16.8	X	18.72719	109.85609	151.91106	2.82532	0.1744225	0.25745134	2.4472177	21	7 14.0	18.9
141865 2002 PN_{28}	16.0	X	62.69467	105.00389	287.73517	6.33263	0.1036497	0.27871990	2.3210833	21	—	—
141866 2002 PL_{30}	16.5	X	17.06424	106.59114	186.20809	4.74110	0.1050023	0.25980842	2.4323939	21	8 20.8	19.1
141867 2002 PY_{30}	17.1	X	109.22237	46.23739	226.80953	1.89719	0.1779976	0.27171804	2.3607885	21	12 4.4	20.7
141868 2002 PN_{31}	16.7	X	37.57213	233.14250	170.56694	3.57871	0.1259501	0.27600137	2.3362997	21	—	—
141869 2002 PK_{32}	16.8	X	19.54471	202.39307	208.34409	2.12834	0.2143511	0.27275502	2.3548010	21	—	—
141870 2002 PB_{33}	17.1	X	240.42523	83.62203	164.54527	5.31486	0.1246804	0.28661770	2.2782465	21	—	—
141871 2002 PZ_{33}	16.9	X	24.38397	146.30735	129.72648	2.15349	0.1713269	0.25850695	2.4405511	21	8 19.2	19.1
141872 2002 PB_{34}	16.1	X	51.63442	151.31259	134.11575	3.11901	0.2096092	0.26400839	2.4065279	21	10 25.3	19.1
141873 2002 PM_{34}	15.2	X	168.65630	351.46891	4.33937	34.31860	0.1975503	0.23174345	2.6250107	21	3 1.9	19.9
141874 2002 PO_{34}	17.7	X	139.09317	291.06972	143.62492	10.98959	0.3487334	0.39668607	1.8344452	21	5 1.8	20.5
141875 2002 PQ_{35}	17.1	X	34.24510	201.82674	161.15916	1.22475	0.2061473	0.26972440	2.3724071	21	—	—
141876 2002 PW_{35}	17.3	X	148.46503	51.93400	232.81323	2.87625	0.1420397	0.27798149	2.3251919	21	—	—
141877 2002 PX_{38}	16.6	X	343.54933	106.86658	301.31698	2.00271	0.1720045	0.26862549	2.3788729	21	12 20.6	18.7
141878 2002 PT_{43}	15.9	X	353.85287	189.71053	197.36421	4.74497	0.2137209	0.26390719	2.4071430	21	12 14.3	18.0
141879 2002 PG_{48}	16.4	X	133.18967	63.62353	260.27513	5.98791	0.1327759	0.27870943	2.3211415	21	—	—
141880 2002 PC_{49}	15.5	X	174.48307	82.95881	305.28461	12.27939	0.1830339	0.23856978	2.5746948	21	3 21.9	19.9
141881 2002 PM_{49}	16.1	X	126.97942	21.96708	276.48677	6.75727	0.1255982	0.27503128	2.3417902	21	—	—
141882 2002 PO_{50}	15.9	X	125.82633	4.85324	10.10195	3.48178	0.2601299	0.22833690	2.6510545	21	2 4.6	19.8
141883 2002 PZ_{50}	15.6	X	199.02016	323.04548	29.23253	12.59971	0.3176967	0.23638052	2.5905676	21	3 12.9	20.5
141884 2002 PT_{52}	16.1	X	349.47689	105.95522	342.38755	6.37953	0.0568161	0.27725652	2.3292434	21	—	—
141885 2002 PZ_{52}	16.4	X	26.44382	314.65289	88.97965	3.57271	0.2183224	0.27314016	2.3525869	21	—	—
141886 2002 PK_{53}	16.8	X	11.60264	246.30985	143.94007	2.00743	0.1823845	0.26935860	2.3745545	21	—	—
141887 2002 PR_{53}	16.5	X	74.56221	252.63496	114.33143	4.97333	0.1860255	0.27588828	2.3369381	21	—	—
141888 2002 PB_{54}	16.8	X	16.56369	293.29530	62.81903	2.47052	0.2017941	0.26635701	2.3923605	21	12 8.6	19.3
141889 2002 PU_{54}	15.4	X	104.16023	237.95259	140.58401	14.08553	0.1886356	0.22363911	2.6880513	21	1 3.4	18.9
141890 2002 PD_{55}	16.5	X	53.29142	173.12562	186.29791	2.42786	0.2127259	0.27171972	2.3607787	21	—	—
141891 2002 PG_{55}	16.2	X	26.43936	82.15126	293.33838	5.65841	0.1388182	0.26980137	2.3719560	21	—	—
141892 2002 PU_{55}	16.4	X	113.70351	110.93125	185.47456	6.62302	0.1229458	0.27398015	2.3477760	21	—	—
141893 2002 PA_{56}	16.8	X	183.78864	126.68756	279.08385	3.73043	0.1268766	0.29726532	2.2235141	21	4 19.9	20.0
141894 2002 PC_{56}	16.0	X	314.83650	165.54608	170.67725	6.05633	0.1498300	0.25551793	2.4595470	21	6 25.9	18.6
141895 2002 PP_{56}	16.3	X	49.19611	149.11810	184.37583	4.91300	0.1948521	0.26846872	2.3797989	21	12 21.5	19.6
141896 2002 PG_{57}	16.0	X	308.35675	41.78228	313.07694	5.74271	0.1453368	0.25522056	2.4614571	21	7 14.4	18.7
141897 2002 PC_{60}	15.9	X	56.31895	309.57202	74.50079	3.34545	0.2183069	0.27270597	2.3550834	21	—	—
141898 2002 PC_{62}	16.6	X	289.31077	249.77155	111.74331	3.06199	0.2276244	0.25496289	2.4631153	21	6 9.1	19.7
141899 2002 PY_{62}	16.7	X	1.46363	225.95883	116.65611	6.15133	0.1466948	0.26366237	2.4086329	21	10 16.9	19.0
141900 2002 PN_{64}	16.9	X	226.38997	3.49778	294.14682	8.66105	0.0464143	0.29153229	2.2525699	21	1 14.6	19.9
141901 2002 PO_{65}	16.7	X	333.07652	171.46855	194.43163	5.81145	0.1650424	0.26280372	2.4138765	21	9 17.9	18.7
141902 2002 PB_{67}	16.8	X	105.07447	26.39073	295.25495	7.21014	0.1306108	0.27715596	2.3298068	21	—	—
141903 2002 PE_{68}	16.5	X	170.30615	112.31095	163.12003	6.34407	0.1080990	0.28022627	2.3127578	21	—	—
141904 2002 PH_{70}	15.6	X	306.48669	32.47849	196.78970	12.25914	0.2024618	0.24217981	2.5490446	21	1 9.8	19.5
141905 2002 PG_{72}	15.1	X	242.67159	61.93647	221.56822	10.71283	0.1168974	0.18778731	3.0201271	21	1 27.0	20.0
141906 2002 PJ_{73}	16.4	X	106.49547	139.75974	173.87238	4.88337	0.1515644	0.27428255	2.3460500	21	—	—
141907 2002 PG_{75}	16.3	X	22.74102	255.51102	148.41832	3.29091	0.1652381	0.27101608	2.3648631	21	—	—
141908 2002 PC_{77}	16.5	X	120.48107	289.99075	359.65976	6.35438	0.1201395	0.27543383	2.3395080	21	—	—
141909 2002 PA_{78}	16.3	X	21.81352	192.25438	268.39588	4.83176	0.1023241	0.28357421	2.2945185	21	—	—
141910 2002 PL_{78}	17.0	X	131.48416	269.27641	37.91907	4.87480	0.1662586	0.27857860	2.3218681	21	—	—
141911 2002 PQ_{79}	16.3	X	136.07547	0.95184	343.71146	3.00006	0.2630298	0.28249072	2.3003818	21	—	—
141912 2002 PN_{80}	16.2	X	80.77397	192.13159	100.29013	7.39913	0.1008868	0.26985642	2.3716333	21	11 24.7	19.4
141913 2002 PP_{80}	17.2	X	349.19106	267.80710	56.01996	3.11990	0.1914979	0.25993434	2.4316083	21	8 19.6	18.9
141914 2002 PW_{80}	15.8	X	309.82541	205.54609	83.41917	3.21839	0.0764052	0.19747163	2.9205607	21	4 28.5	19.6
141915 2002 PX_{80}	16.2	X	240.84892	309.63113	107.11222	4.26636	0.0995659	0.25564605	2.4587252	21	7 12.4	19.6
141916 2002 PF_{82}	16.8	X	102.28208	162.79858	157.84966	2.12428	0.2474944	0.27523381	2.3406413	21	—	—
141917 2002 PK_{82}	16.6	X	50.25016	78.46118	310.79058	4.72172	0.2133441	0.27438261	2.3454796	21	—	—
141918 2002 PS_{82}	16.1	X	13.79260	249.11133	60.52427	2.95998	0.1732981	0.26101753	2.4248763	21	9 21.7	18.3
141919 2002 PT_{82}	16.2	X	94.98276	227.22652	34.43065	2.74819	0.1706097	0.26760395	2.3849231	21	11 5.5	19.7
141920 2002 PU_{82}	16.3	X	328.43575	295.19862	91.76101	3.02993	0.2026623	0.26216807	2.4177767	21	10 13.6	17.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
141921 2002 PY_{82}	15.5	X	332.46392	78.18421	145.85784	14.57144	0.0158718	0.24196297	2.5505672	21	3 8.5	18.8
141922 2002 PC_{84}	16.2	X	69.69245	181.30941	137.36527	3.22328	0.1979015	0.26990014	2.3713772	21	12 24.9	19.6
141923 2002 PS_{84}	16.0	X	358.45061	207.34215	119.08284	3.29674	0.2238911	0.26016739	2.4301559	21	9 20.1	17.6
141924 2002 PU_{84}	16.3	X	352.64898	323.69207	26.31045	2.71354	0.2295852	0.26151390	2.4218070	21	10 14.4	17.7
141925 2002 PX_{85}	16.5	X	340.52187	210.49748	107.10510	5.93701	0.1564881	0.25813863	2.4428720	21	7 18.3	18.5
141926 2002 PV_{86}	16.3	X	16.00971	245.85121	129.97091	3.18293	0.2070597	0.26807219	2.3821451	21	—	—
141927 2002 PY_{86}	16.4	X	34.28660	15.92161	315.57147	2.54459	0.2085886	0.26688773	2.3891879	21	12 1.7	19.4
141928 2002 PA_{87}	16.5	X	316.62584	223.30263	184.80039	11.17306	0.2318314	0.26324536	2.4111760	21	10 16.2	18.0
141929 2002 PD_{88}	17.0	X	331.50610	79.07351	257.79248	0.65322	0.2008561	0.25735100	2.4478538	21	7 24.5	19.0
141930 2002 PH_{88}	16.3	X	19.83947	3.29454	353.60299	1.97782	0.1365440	0.26622679	2.3931406	21	12 3.8	18.8
141931 2002 PN_{92}	16.1	X	300.00036	39.47962	330.17106	5.80973	0.1264237	0.25725950	2.4484342	21	7 25.9	18.7
141932 2002 PC_{94}	17.1	X	87.15643	179.74972	119.06608	3.10968	0.2162155	0.27061112	2.3672218	21	12 18.5	20.9
141933 2002 PF_{94}	15.9	X	2.09534	24.32889	52.36983	7.24782	0.1732601	0.27362220	2.3498230	21	—	—
141934 2002 PL_{94}	16.8	X	8.45027	118.24419	211.23541	4.79854	0.2140422	0.26294606	2.4130053	21	10 16.1	18.7
141935 2002 PN_{94}	16.5	X	8.27355	104.94306	123.54047	5.09368	0.1868843	0.30463439	2.1875103	21	4 17.4	17.8
141936 2002 PM_{95}	16.5	X	65.46509	96.72561	210.54735	1.77431	0.1922181	0.26945170	2.3740075	21	12 5.9	19.8
141937 2002 PS_{95}	16.2	X	51.21236	120.83442	269.00354	1.78652	0.2196714	0.27551019	2.3390757	21	—	—
141938 2002 PV_{95}	16.4	X	41.09184	142.78775	120.67395	3.32508	0.1807674	0.26100855	2.4249320	21	9 2.9	19.0
141939 2002 PH_{96}	16.7	X	8.84598	9.92648	346.74567	0.69402	0.2002364	0.26501712	2.4004174	21	11 25.6	18.9
141940 2002 PJ_{96}	16.2	X	41.71992	268.21276	95.89475	3.98733	0.1484570	0.27104279	2.3647077	21	—	—
141941 2002 PW_{97}	16.5	X	55.34235	317.97278	13.68628	7.88365	0.2503598	0.26922805	2.3753221	21	—	—
141942 2002 PU_{99}	16.9	X	89.53686	235.01072	68.99577	3.09357	0.2255991	0.27150850	2.3620029	21	12 27.5	20.7
141943 2002 PF_{100}	16.1	X	292.38243	316.91645	85.73283	7.65409	0.2420185	0.25728828	2.4482516	21	8 12.7	18.9
141944 2002 PZ_{101}	15.3	X	261.18689	114.01487	201.77437	8.16927	0.0820319	0.19400883	2.9552102	21	3 30.5	19.6
141945 2002 PR_{106}	16.3	X	119.55398	339.85886	244.51653	6.74052	0.1691730	0.26585166	2.3953913	21	10 10.8	20.2
141946 2002 PF_{107}	17.6	X	87.96123	264.78645	32.69849	1.32638	0.2434649	0.27154198	2.3618088	21	12 19.4	21.5
141947 2002 PN_{108}	16.8	X	72.94627	254.40253	60.07048	3.18398	0.1736091	0.27107743	2.3645063	21	12 20.7	20.3
141948 2002 PK_{110}	16.3	X	22.53832	293.35601	10.85189	6.10305	0.1250043	0.26246096	2.4159776	21	9 22.3	18.8
141949 2002 PN_{110}	14.7	X	351.92216	213.68564	261.84814	8.84865	0.0619535	0.17740191	3.1368748	21	—	—
141950 2002 PC_{111}	16.7	X	190.20957	70.57132	205.39243	8.56115	0.1315566	0.28231566	2.3013327	21	—	—
141951 2002 PH_{111}	16.4	X	296.59591	261.62656	110.09443	6.82120	0.1521740	0.25718686	2.4488952	21	7 17.9	19.0
141952 2002 PR_{111}	16.2	X	86.38147	109.29461	146.90807	6.75594	0.1000364	0.26522716	2.3991499	21	10 15.0	19.4
141953 2002 PU_{113}	16.8	X	77.87769	137.84443	167.39888	1.37530	0.1847927	0.26975953	2.3722012	21	12 15.1	20.2
141954 2002 PZ_{113}	16.8	X	57.89937	149.97656	219.66712	0.46877	0.1999050	0.27307506	2.3529608	21	—	—
141955 2002 PP_{115}	16.1	X	344.43064	233.38413	167.38462	23.33114	0.2672823	0.26606306	2.3941223	21	12 25.0	18.7
141956 2002 PS_{115}	15.4	X	149.52651	142.47950	286.86693	11.60820	0.2393745	0.23916598	2.5704142	21	4 25.3	20.0
141957 2002 PU_{116}	16.4	X	58.85720	35.23911	290.21498	6.09851	0.1077046	0.26763878	2.3847161	21	12 10.5	19.6
141958 2002 PV_{116}	16.6	X	71.46860	33.05929	260.83743	4.44072	0.2244177	0.26696352	2.3887357	21	11 27.9	20.1
141959 2002 PV_{117}	17.2	X	195.78767	80.23001	205.67928	2.59721	0.1668653	0.28553213	2.2840173	21	—	—
141960 2002 PF_{118}	16.4	X	147.54953	19.80131	217.34566	6.32813	0.0673178	0.27024670	2.3693494	21	11 25.4	19.6
141961 2002 PL_{119}	16.4	X	98.29121	93.74795	170.60371	6.56120	0.1004609	0.26758083	2.3850604	21	11 8.2	19.8
141962 2002 PC_{120}	17.0	X	58.22893	106.37707	187.30272	6.12599	0.1091278	0.26530079	2.3987060	21	10 29.7	20.0
141963 2002 PL_{120}	16.0	X	324.72908	143.43324	296.14192	5.78533	0.0858833	0.27032065	2.3689173	21	12 25.5	18.3
141964 2002 PV_{120}	17.0	X	260.71612	85.14164	185.52537	5.77576	0.1908260	0.29253710	2.2474088	21	1 10.8	20.6
141965 2002 PA_{121}	16.6	X	42.26124	132.60539	195.76346	5.76241	0.1346932	0.26694621	2.3888390	21	11 28.1	19.6
141966 2002 PV_{122}	16.1	X	319.35839	153.78389	218.52531	5.71702	0.1254294	0.25930140	2.4355636	21	8 30.7	18.7
141967 2002 PD_{124}	16.3	X	36.66717	261.00147	42.57420	5.45137	0.1975621	0.26417212	2.4055334	21	10 26.6	18.9
141968 2002 PL_{124}	16.4	X	46.13522	18.87184	253.10507	0.78606	0.1694531	0.26165313	2.4209478	21	9 20.0	19.2
141969 2002 PO_{124}	16.2	X	283.22281	247.92991	151.35327	12.21513	0.1871907	0.25726252	2.4484150	21	7 29.9	19.2
141970 2002 PL_{125}	16.9	X	11.60963	22.03493	324.37033	0.45654	0.2023200	0.26500385	2.4004975	21	11 15.9	19.1
141971 2002 PM_{125}	16.2	X	262.61226	104.42636	185.31789	2.88688	0.1980585	0.24324983	2.5415638	21	2 11.4	20.3
141972 2002 PO_{125}	15.8	X	32.99829	42.98302	306.68160	5.66721	0.1532803	0.26825882	2.3810401	21	12 16.4	18.7
141973 2002 PR_{125}	16.1	X	347.76457	213.07023	153.48788	7.96537	0.1256448	0.26365331	2.4086881	21	10 24.3	18.5
141974 2002 PO_{126}	16.1	X	353.17124	355.57511	25.94247	4.10451	0.1953327	0.26560011	2.3969035	21	12 1.1	18.2
141975 2002 PS_{126}	16.6	X	345.15517	222.88377	110.61006	3.50498	0.2011641	0.25944680	2.4346535	21	8 25.2	18.2
141976 2002 PE_{127}	15.6	X	168.50037	109.56645	304.73939	5.72433	0.2818049	0.24223580	2.5486517	21	4 25.7	20.3
141977 2002 PZ_{127}	16.2	X	332.32484	21.64950	6.38549	6.13690	0.1167713	0.26417355	2.4055247	21	10 21.9	18.6
141978 2002 PZ_{128}	15.8	X	22.49019	314.88398	50.68413	8.20317	0.2012923	0.26705157	2.3882106	21	12 30.8	18.7
141979 2002 PU_{129}	16.2	X	209.50189	283.73337	76.33000	5.36753	0.2148408	0.24130128	2.5552279	21	3 26.6	20.6
141980 2002 PZ_{130}	16.3	X	20.73050	306.70073	67.48473	3.10248	0.2188448	0.27034198	2.3687927	21	—	—
141981 2002 PT_{131}	15.3	X	106.47504	170.60547	250.11860	15.93450	0.2476709	0.22930982	2.6435505	21	3 1.1	19.3
141982 2002 PC_{132}	16.4	X	26.68379	271.14605	10.47826	6.51740	0.1514120	0.26033253	2.4291281	21	8 31.8	18.8
141983 2002 PJ_{132}	16.4	X	59.91500	173.04508	124.30656	3.45617	0.1557275	0.26814438	2.3817175	21	11 13.0	19.5
141984 2002 PK_{133}	16.9	X	74.47232	85.22645	270.54826	1.62682	0.1317537	0.27560636	2.3385315	21	—	—
141985 2002 PH_{134}	16.2	X	65.62846	105.10559	269.21205	1.25049	0.2490948	0.27448759	2.3448815	21	—	—
141986 2002 PX_{136}	16.7	X	58.76494	177.72441	193.59210	2.80964	0.1865858	0.27519934	2.3408368	21	—	—
141987 2002 PQ_{138}	16.4	X	142.04838	70.84239	226.37478	4.30342	0.1404809	0.27663547	2.3327282	21	—	—
141988 2002 PB_{139}	16.4	X	1.34936	185.70675	212.69575	4.47490	0.3219089	0.26598151	2.3946116	21	—	—
141989 2002 PC_{139}	16.4	X	96.14143	330.21208	304.76778	7.77284	0.1967118	0.26867046	2.3786074	21	11 24.1	20.2
141990 2002 PG_{139}	16.3	X	181.32625	24.55844	332.63971	9.24399	0.2159420	0.23650453	2.5896619	21	2 26.0	20.5
141991 2002 PO_{139}	16.0	X	56.47756	90.33668	205.21361	6.06246	0.1694151	0.26491139	2.4010560	21	11 7.3	19.1
141992 2002 PA_{140}	16.1	X	236.29090	136.43295	22.85677	2.67638	0.1512198	0.26474900	2.4020377	21	11 15.9	19.1
141993 2002 PQ_{140}	16.8	X	347.10264	237.42001	153.86250	1.59421	0.1859428	0.26256109	2.4153633	21	12 2.3	18.6
141994 2002 PP_{151}	16.5	X	45.71748	51.68135	319.08026	5.72805	0.1227703	0.27418700	2.3465950	21	—	—
141995 Rossbeyer	16.9	X	58.74748	262.93704	104.17479	6.33202	0.1840165	0.27463940	2.3440174	21	—	—
141996 2002 PG_{156}	17.2	X	54.30793	267.01100	27.59325	1.37976	0.1899627	0.26643103	2.3919174	21	11 5.7	20.2
141997 2002 PK_{156}	16.8	X	14.97758	91.33589	328.49761	2.10519	0.1696249	0.27492127	2.3424149	21	—	—
141998 2002 PE_{157}	16.3	X	330.71987	301.99752	121.69481	3.14486	0.2016199	0.26858766	2.3790963	21	12 19.8	18.0
141999 2002 PJ_{157}	16.9	X	45.34218	218.54224	130.75712	7.58205	0.1295105	0.27093962	2.3653080	21	12 28.9	20.0
142000 2002 PZ_{158}	16.8	X	75.20148	90.44994	315.15141	6.58680	0.1112388	0.28273899	2.2990350	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
142001 2002 PW_{159}	16.8	X	6.32588	316.76169	50.48711	2.33668	0.2012896	0.26670732	2.3902652	21	12 7.1	19.0
142002 2002 PM_{160}	17.6	X	133.79423	240.30885	82.84485	2.59707	0.0986599	0.28065862	2.3103820	21	—	—
142003 2002 PP_{160}	17.1	X	239.03792	303.55918	326.47397	3.95723	0.1009006	0.28981491	2.2614600	21	—	—
142004 2002 PE_{161}	16.3	X	12.77102	4.39038	114.12391	4.50306	0.1440928	0.28471537	2.2883833	21	—	—
142005 2002 PS_{161}	16.5	X	263.10946	58.08363	346.54953	2.30749	0.1773087	0.25602475	2.4563000	21	7 13.1	19.9
142006 2002 PG_{162}	17.5	X	124.36116	106.26786	151.33674	1.57136	0.1598652	0.27201534	2.3590680	21	11 28.6	21.2
142007 2002 PJ_{162}	17.1	X	51.05601	20.60621	274.83677	0.31766	0.1321581	0.26532871	2.3985377	21	10 24.7	19.9
142008 2002 PT_{162}	16.1	X	146.13118	71.52415	336.16912	2.84315	0.1241879	0.24040367	2.5615843	21	3 19.5	19.7
142009 2002 PS_{163}	16.6	X	338.79374	274.19169	128.35782	5.78645	0.2228320	0.26668030	2.3904267	21	12 7.5	18.3
142010 2002 PX_{163}	16.6	X	160.69699	163.68058	107.55120	5.33435	0.1268511	0.27906004	2.3191969	21	—	—
142011 2002 PW_{164}	16.6	X	14.78165	156.51032	286.99822	5.32908	0.1999853	0.27594558	2.3366146	21	—	—
142012 2002 PF_{165}	16.9	X	326.66788	256.73270	126.87141	6.35341	0.1248667	0.26400840	2.4065278	21	10 8.9	19.2
142013 2002 PC_{167}	17.0	X	55.59694	302.96227	314.47272	1.91149	0.1428513	0.26075320	2.4265149	21	9 8.8	19.9
142014 Neirinck	16.9	X	17.27559	318.34704	352.13750	3.73746	0.0372090	0.26113638	2.4241406	21	9 10.9	19.8
142015 2002 PW_{169}	16.7	X	33.52094	354.71631	47.58177	5.82556	0.0746089	0.27489226	2.3425797	21	—	—
142016 2002 PD_{172}	16.6	X	217.07221	211.68203	133.73255	2.74383	0.0264860	0.24387229	2.5372373	21	3 16.4	20.1
142017 2002 PB_{173}	15.6	X	25.13914	289.24742	218.75763	2.68082	0.0777679	0.18713121	3.0271822	21	2 14.5	19.5
142018 2002 PK_{173}	17.1	X	308.09796	254.29529	192.64498	5.26873	0.1311315	0.26905011	2.3763693	21	12 5.9	19.3
142019 2002 PG_{174}	16.6	X	353.70131	301.16422	169.55607	6.21489	0.0507689	0.28058154	2.3108051	21	—	—
142020 Xinghaishiyan	16.1	X	250.29409	149.44643	184.78611	1.45207	0.0690672	0.19446016	2.9506360	21	4 12.3	20.4
142021 2002 QB_{1}	16.9	X	12.11368	56.02907	295.20022	4.23748	0.2416204	0.26537701	2.3982467	21	11 30.3	19.3
142022 2002 QE_{1}	17.0	X	256.80186	135.14027	139.73058	1.20065	0.1278201	0.29268924	2.2466300	21	1 16.3	20.0
142023 2002 QY_{2}	16.3	X	215.79528	97.05240	265.51129	2.78625	0.1826915	0.24356710	2.5393562	21	3 30.9	20.5
142024 2002 QO_{3}	16.5	X	296.06160	149.92385	186.72333	6.38809	0.1125674	0.25253247	2.4788937	21	6 3.2	19.7
142025 2002 QR_{4}	16.1	X	197.48429	102.37829	284.27125	3.73734	0.0858201	0.24437802	2.5337356	21	4 12.8	19.9
142026 2002 QY_{4}	15.9	X	297.12141	338.16379	292.69623	5.74210	0.0860451	0.24426571	2.5345122	21	3 7.5	19.3
142027 2002 QM_{5}	16.7	X	42.37842	82.08438	225.38930	4.49597	0.2277548	0.26492509	2.4009733	21	11 13.5	19.5
142028 2002 QU_{5}	15.3	X	61.00911	182.53995	214.23011	24.06678	0.2106894	0.27599545	2.3363331	21	—	—
142029 2002 QE_{6}	14.9	X	27.87780	35.11245	235.43296	24.61263	0.1362447	0.25604195	2.4561901	21	7 30.7	18.2
142030 2002 QG_{6}	15.0	X	27.88764	90.22971	295.68083	22.61957	0.3147422	0.26571671	2.3962023	21	—	—
142031 2002 QR_{6}	16.4	X	188.31868	162.75967	188.06323	9.71718	0.1717301	0.23700651	2.5860041	21	2 20.9	20.7
142032 2002 QN_{7}	16.5	X	134.26591	204.44357	66.30251	3.25411	0.1418771	0.27482322	2.3429720	21	12 23.8	19.9
142033 2002 QY_{7}	16.6	X	247.92378	176.51638	110.77906	4.56979	0.1433332	0.29164867	2.2519706	21	1 23.1	20.0
142034 2002 QJ_{8}	16.6	X	348.57929	245.96839	52.46592	3.39789	0.1670266	0.25547599	2.4598162	21	7 4.2	18.8
142035 2002 QT_{9}	16.6	X	130.72280	351.08617	309.53658	4.89972	0.1566541	0.27581995	2.3373241	21	—	—
142036 2002 QH_{11}	16.8	X	160.03410	75.65606	172.93569	4.62603	0.1264947	0.27553364	2.3389430	21	12 21.7	20.4
142037 2002 QJ_{13}	16.4	X	318.37301	136.55343	190.77256	5.03010	0.1037596	0.25490494	2.4634885	21	6 25.7	19.1
142038 2002 QS_{13}	16.5	X	284.43457	203.84338	212.07634	4.00652	0.1711474	0.25952770	2.4341476	21	8 27.5	19.2
142039 2002 QX_{13}	16.0	X	163.10452	313.55500	213.99864	5.68324	0.0427905	0.26106132	2.4246052	21	9 9.0	19.4
142040 2002 QE_{15}	16.2	X	244.76161	160.50801	226.38980	28.24992	0.3445094	0.45797388	1.6668976	21	5 7.8	18.4
142041 2002 QR_{15}	16.3	X	262.99408	118.69626	165.63059	12.31060	0.2946368	0.24252495	2.5466256	21	1 29.4	20.9
142042 2002 QS_{15}	16.6	X	336.01008	194.18860	204.07583	2.06481	0.1987830	0.26331700	2.4107386	21	11 19.5	18.3
142043 2002 QX_{15}	15.1	X	65.48952	106.43214	292.43301	24.56203	0.2290528	0.27400631	2.3476265	21	—	—
142044 2002 QZ_{15}	16.9	X	89.04769	157.50676	179.79151	6.16772	0.1350919	0.27500302	2.3419506	21	—	—
142045 2002 QD_{16}	16.8	X	67.77612	91.24968	257.76389	3.30016	0.1259251	0.27498979	2.3420258	21	—	—
142046 2002 QK_{16}	17.2	X	159.16246	89.07897	191.33183	4.64909	0.1736735	0.27895390	2.3197851	21	—	—
142047 2002 QK_{18}	16.6	X	285.73597	144.70057	262.37388	1.39832	0.2195237	0.25660074	2.4526229	21	8 9.2	19.4
142048 2002 QU_{18}	16.6	X	14.85919	341.28838	87.62789	3.85817	0.1440806	0.27458690	2.3443161	21	—	—
142049 2002 QK_{20}	16.3	X	57.38738	80.98963	222.55102	5.17875	0.1374181	0.26495920	2.4007672	21	11 13.9	19.2
142050 2002 QP_{20}	16.3	X	51.80127	260.97124	355.63576	2.04132	0.1690854	0.25942419	2.4347950	21	9 7.1	19.0
142051 2002 QQ_{20}	16.6	X	40.25919	197.54807	153.17766	4.83023	0.1540983	0.26852102	2.3794898	21	12 27.4	19.7
142052 2002 QS_{20}	16.2	X	49.77352	171.41090	157.48995	6.95398	0.1256720	0.26745909	2.3857841	21	12 7.5	19.4
142053 2002 QL_{21}	16.7	X	65.34069	139.41526	176.66088	1.91648	0.2255670	0.26862450	2.3788787	21	12 20.1	20.3
142054 2002 QB_{22}	16.9	X	19.31537	186.14159	129.97803	4.06881	0.1357659	0.26374271	2.4081437	21	10 7.4	19.3
142055 2002 QP_{23}	16.5	X	62.80250	302.38253	3.37373	0.94172	0.1892614	0.26787600	2.3833080	21	11 30.2	19.9
142056 2002 QA_{24}	16.3	X	301.99746	29.47046	345.44706	1.54496	0.0646380	0.25817323	2.4426538	21	8 14.8	18.9
142057 2002 QZ_{25}	17.3	X	155.81251	274.90579	339.77058	5.06993	0.1885927	0.27484909	2.3428250	21	12 22.6	21.0
142058 2002 QM_{27}	17.0	X	49.56725	210.25099	100.02105	2.29247	0.1793194	0.26649888	2.3915114	21	11 19.7	20.1
142059 2002 QH_{29}	16.9	X	107.98588	280.22016	6.89245	4.52396	0.2345782	0.27357162	2.3501127	21	12 22.8	20.8
142060 2002 QH_{30}	16.7	X	328.01144	47.80092	353.43682	6.11779	0.1063356	0.26561108	2.3968375	21	11 1.9	19.3
142061 2002 QP_{31}	16.5	X	355.36470	96.76177	4.21880	6.91154	0.0785633	0.27827031	2.3235827	21	—	—
142062 2002 QR_{32}	16.2	X	0.85412	122.22183	147.64787	6.60517	0.1326517	0.25304727	2.4755305	21	6 16.4	18.6
142063 2002 QS_{32}	17.0	X	59.75037	115.56170	157.38050	1.73524	0.1734503	0.26246901	2.4159282	21	10 12.4	20.1
142064 2002 QY_{32}	16.3	X	341.19138	81.87013	345.98566	6.69485	0.1010441	0.26933134	2.3747148	21	—	—
142065 2002 QL_{33}	17.2	X	85.00869	265.13234	80.55023	2.98788	0.1472311	0.27474413	2.3434216	21	—	—
142066 2002 QC_{35}	17.0	X	48.62153	270.39249	42.98172	3.01946	0.1850225	0.26604690	2.3942192	21	11 22.6	19.9
142067 2002 QV_{35}	16.2	X	8.43716	43.44723	44.49743	4.10807	0.1628390	0.27554484	2.3388796	21	—	—
142068 2002 QA_{36}	16.8	X	321.83827	327.58331	74.11318	3.23552	0.2053455	0.26180112	2.4200354	21	10 20.8	18.5
142069 2002 QH_{36}	16.3	X	346.40972	19.34673	340.68175	10.89752	0.2568354	0.26310124	2.4120564	21	10 11.2	17.9
142070 2002 QO_{36}	16.4	X	334.43699	205.41500	159.83834	1.52989	0.1978972	0.26009179	2.4306268	21	9 20.1	18.1
142071 2002 QX_{36}	16.6	X	122.01334	269.39488	151.88196	5.10804	0.2506371	0.23408536	2.6074734	21	3 28.2	20.4
142072 2002 QF_{39}	17.0	X	71.64150	262.12562	14.62588	2.12557	0.1685379	0.26361275	2.4089352	21	10 30.3	20.3
142073 2002 QQ_{41}	15.9	X	198.77820	34.75995	347.86142	5.03707	0.1531452	0.24474418	2.5312078	21	4 9.6	19.9
142074 2002 QW_{41}	16.6	X	125.50540	247.09324	42.60588	3.24279	0.1537348	0.27589582	2.3368955	21	—	—
142075 2002 QK_{42}	16.0	X	285.45745	339.34214	9.35952	6.86704	0.1949413	0.25364597	2.4716335	21	5 20.1	19.4
142076 2002 QQ_{42}	16.1	X	74.61136	305.13452	353.31438	7.90429	0.1614105	0.27003576	2.3705832	21	11 29.0	19.7
142077 2002 QB_{43}	16.2	X	86.25687	212.81799	88.00303	7.08055	0.1114472	0.27144856	2.3623506	21	12 11.7	19.6
142078 2002 QZ_{43}	16.5	X	181.69719	186.55733	96.48588	5.88021	0.1956421	0.28324623	2.2962894	21	—	—
142079 2002 QB_{44}	16.0	X	328.21687	292.89794	40.29463	6.69674	0.1333579	0.25747439	2.4470717	21	7 21.6	18.5
142080 2002 QT_{44}	16.4	X	157.41295	74.07981	345.06758	4.95621	0.2163476	0.23922470	2.5699936	21	4 20.5	20.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
142081 2002 QD_{46}	16.6	X	67.97703	289.23429	338.01994	1.93633	0.1950298	0.26480193	2.4017176	21	10 16.9	19.8
142082 2002 QQ_{46}	16.8	X	348.99172	340.76643	11.11595	1.05452	0.2022114	0.26246102	2.4159772	21	10 5.5	18.3
142083 2002 QK_{47}	16.7	X	90.78607	271.56491	50.22038	6.00394	0.2562361	0.27282466	2.3544003	21	—	—
142084 Jamesdaniel	16.8	X	75.90659	332.65467	331.47232	0.82394	0.1853730	0.26957742	2.3732694	21	12 11.6	20.4
142085 2002 QB_{48}	17.3	X	20.95803	248.81154	121.38941	2.22861	0.1940697	0.26901125	2.3765981	21	—	—
142086 2002 QK_{50}	16.4	X	9.84880	297.78209	168.90965	10.42100	0.1689409	0.27980938	2.3150544	21	—	—
142087 2002 QM_{50}	16.5	X	163.89076	230.35505	195.70106	4.40029	0.1581213	0.24378315	2.5378557	21	5 3.9	20.5
142088 2002 QN_{50}	17.0	X	263.92749	148.50284	4.05888	2.42648	0.1082121	0.27167448	2.3610407	21	12 25.3	19.5
142089 2002 QE_{52}	16.6	X	143.23350	243.06544	23.16719	3.36606	0.1630386	0.27469991	2.3436731	21	12 26.3	20.3
142090 2002 QL_{52}	16.0	X	280.54905	202.95045	87.32166	2.37293	0.0901764	0.19219895	2.9737335	21	3 22.5	20.2
142091 Omerblaes	16.7	X	294.75251	273.49756	146.60025	6.31574	0.1210433	0.26218463	2.4176749	21	10 3.0	19.2
142092 2002 QT_{53}	15.9	X	108.24753	332.12964	93.24241	2.17361	0.0434037	0.18510131	3.0492735	21	2 23.7	20.2
142093 2002 QM_{54}	17.0	X	13.05748	294.60647	117.83553	3.03750	0.1921457	0.27140141	2.3626242	21	—	—
142094 2002 QR_{55}	16.7	X	349.11228	7.96772	124.46198	1.52574	0.1056934	0.28169079	2.3047347	21	—	—
142095 2002 QR_{58}	16.7	X	313.37470	345.17967	118.16501	7.59487	0.0641899	0.27399119	2.3477129	21	—	—
142096 2002 QR_{59}	16.9	X	131.48829	31.24192	224.45064	5.33729	0.1190620	0.27120713	2.3637524	21	12 2.0	20.3
142097 2002 QG_{62}	16.0	X	187.56564	180.60459	335.09616	7.12449	0.1107858	0.26278537	2.4139889	21	9 19.9	19.6
142098 2002 QU_{63}	16.9	X	342.44099	298.38676	339.53560	2.80814	0.1711042	0.25319192	2.4745876	21	5 15.9	19.4
142099 2002 QO_{64}	15.9	X	53.34922	168.39792	67.26280	3.01579	0.0146954	0.20315005	2.8658806	21	7 15.4	19.6
142100 2002 QE_{66}	17.5	X	68.60086	218.23672	115.14222	2.21809	0.1962286	0.27171605	2.3608000	21	—	—
142101 2002 QJ_{68}	16.8	X	313.26548	229.14713	336.19460	5.00493	0.1030197	0.28958936	2.2626340	21	—	—
142102 2002 QP_{69}	16.8	X	351.02414	54.33287	347.50741	5.28243	0.1202092	0.26868097	2.3785454	21	12 18.7	19.3
142103 2002 QV_{74}	17.4	X	205.48520	279.55121	345.49763	2.47981	0.1522796	0.28358266	2.2944729	21	—	—
142104 2002 QM_{78}	17.2	X	300.73518	297.47033	107.26852	3.49019	0.1780590	0.26079371	2.4262635	21	9 11.4	19.6
142105 2002 QX_{83}	16.9	X	1.96645	0.73524	13.22320	5.26247	0.1140068	0.26712996	2.3877434	21	11 24.9	19.4
142106 Nengshun	16.4	X	33.09612	244.86793	100.41530	6.61670	0.1445876	0.26788544	2.3832520	21	12 9.7	19.3
142107 2002 QG_{86}	17.0	X	173.10022	327.66954	295.69239	2.90412	0.0644855	0.27780792	2.3261603	21	—	—
142108 2002 QJ_{86}	16.0	X	117.31445	224.79604	197.13853	2.24729	0.0655491	0.18639180	3.0351827	21	3 3.9	20.3
142109 2002 QD_{92}	16.7	X	1.44781	157.04418	112.28329	2.71969	0.1703372	0.25619315	2.4552236	21	6 15.5	18.5
142110 2002 RO	16.4	X	311.36831	109.77892	15.22466	3.58755	0.0990498	0.27092493	2.3653935	21	—	—
142111 2002 RU_{1}	15.7	X	228.42893	311.87248	347.47288	12.11585	0.1744798	0.23710247	2.5853063	21	1 30.4	20.0
142112 2002 RS_{2}	16.4	X	313.51320	222.76653	141.09375	1.97762	0.1900803	0.25643130	2.4537032	21	7 30.1	18.7
142113 2002 RS_{3}	17.0	X	98.78373	132.56395	175.24924	2.42552	0.2127172	0.27315860	2.3524810	21	—	—
142114 2002 RA_{4}	16.2	X	35.77770	256.32397	166.16065	20.48876	0.2578024	0.27642037	2.3339382	21	—	—
142115 2002 RC_{5}	16.2	X	332.78848	178.12916	222.21783	10.18083	0.2258916	0.26269027	2.4145715	21	11 16.1	17.6
142116 2002 RE_{5}	15.8	X	57.59330	150.72903	299.26054	13.32649	0.1158211	0.23024945	2.6363535	21	1 13.2	18.7
142117 2002 RY_{5}	16.4	X	31.89552	328.84800	324.80219	0.70767	0.1817588	0.26258305	2.4152287	21	9 30.9	18.9
142118 2002 RE_{6}	16.3	X	78.61733	186.04116	170.50583	6.61904	0.1366850	0.27503776	2.3417534	21	—	—
142119 2002 RD_{7}	16.7	X	203.35585	224.10377	155.82940	2.98231	0.2148576	0.24370343	2.5384091	21	4 12.8	21.0
142120 2002 RM_{7}	16.6	X	102.96721	324.94565	15.61673	3.50087	0.1838392	0.27755856	2.3275533	21	—	—
142121 2002 RD_{8}	15.7	X	232.64811	87.38271	166.37149	12.82365	0.0742635	0.23133397	2.6281074	21	—	—
142122 2002 RG_{8}	16.1	X	297.18355	60.71553	213.42174	1.77588	0.0896291	0.24392860	2.5368468	21	3 13.6	19.5
142123 2002 RA_{9}	16.7	X	283.03962	137.92209	116.06631	1.55961	0.1704492	0.29342822	2.2428564	21	1 12.9	20.0
142124 2002 RP_{9}	16.5	X	63.18773	119.28867	146.35967	2.63755	0.2032089	0.26339974	2.4102337	21	10 11.8	19.7
142125 2002 RR_{9}	16.2	X	345.50756	69.11598	346.23627	6.60211	0.1020654	0.26938718	2.3743866	21	12 27.4	18.8
142126 2002 RT_{9}	17.2	X	82.40890	128.32748	155.21529	2.59142	0.1946303	0.26824985	2.3810932	21	11 23.8	20.7
142127 2002 RY_{9}	16.4	X	150.74604	269.02696	154.01413	6.26817	0.2246414	0.24028979	2.5623936	21	4 23.9	20.6
142128 2002 RE_{10}	16.2	X	251.95283	96.45619	352.89174	6.40317	0.0558013	0.26121140	2.4236764	21	9 17.2	19.1
142129 2002 RD_{11}	16.0	X	277.42415	170.61823	112.22133	1.48646	0.0693354	0.24254439	2.5464895	21	3 4.6	19.5
142130 2002 RU_{11}	16.0	X	247.23400	233.34943	246.89288	1.29002	0.0443285	0.26314701	2.4117767	21	10 25.2	18.8
142131 2002 RV_{11}	16.2	X	82.56389	77.52243	218.49291	1.44112	0.2151980	0.26835121	2.3804935	21	12 10.6	19.9
142132 2002 RW_{13}	16.2	X	33.34086	182.63305	161.70542	6.15831	0.1456617	0.26568071	2.3964187	21	12 8.9	19.2
142133 2002 RY_{13}	16.9	X	204.56926	328.45235	14.47144	3.23602	0.2080408	0.23810574	2.5780389	21	2 28.7	21.2
142134 2002 RH_{14}	16.7	X	335.70909	356.79079	2.79269	0.64391	0.1844736	0.25890757	2.4380328	21	9 13.7	18.2
142135 2002 RY_{14}	16.1	X	275.37525	31.42564	356.17843	2.79994	0.0623335	0.25393240	2.4697745	21	7 24.3	19.3
142136 2002 RZ_{14}	16.6	X	164.09121	56.05924	1.62993	1.72237	0.1790556	0.24043975	2.5613280	21	4 23.7	20.8
142137 2002 RN_{15}	16.2	X	313.49324	82.11472	333.93281	5.66861	0.1133491	0.26283431	2.4136892	21	10 26.7	18.7
142138 2002 RQ_{16}	17.2	X	121.85980	107.95587	202.70061	0.95703	0.1164258	0.27528124	2.3403724	21	—	—
142139 2002 RR_{16}	16.8	X	59.30131	140.92771	166.72202	3.14368	0.1314162	0.26603775	2.3942741	21	11 21.7	20.0
142140 2002 RA_{17}	16.9	X	113.05463	289.10849	343.63453	1.86853	0.1949510	0.27038663	2.3685319	21	12 7.5	20.7
142141 2002 RT_{17}	16.8	X	4.65957	232.71706	153.97459	3.56905	0.2287094	0.26597452	2.3946535	21	—	—
142142 2002 RW_{17}	16.1	X	112.39081	138.83253	168.45686	5.55460	0.1479152	0.27354456	2.3502677	21	—	—
142143 2002 RM_{18}	16.5	X	21.79917	168.58423	125.39375	1.98256	0.1806866	0.25876721	2.4389143	21	9 13.2	18.6
142144 2002 RX_{18}	16.7	X	187.82138	261.40261	129.14719	3.27861	0.2319958	0.24047955	2.5610455	21	4 14.2	21.2
142145 2002 RD_{19}	16.0	X	7.73321	153.41603	156.22668	6.68303	0.1310298	0.25775180	2.4453155	21	9 2.2	18.4
142146 2002 RZ_{19}	15.7	X	259.33408	297.48298	10.13020	14.37469	0.1285944	0.24178917	2.5517893	21	3 12.3	19.5
142147 2002 RR_{20}	16.5	X	82.21424	211.67036	85.14095	3.46369	0.1794693	0.26810147	2.3819717	21	12 8.1	20.0
142148 2002 RD_{21}	15.5	X	67.63461	283.86669	162.19286	14.55531	0.0175546	0.23291988	2.6161643	21	1 13.9	19.2
142149 2002 RR_{21}	16.6	X	345.62018	312.84965	356.12081	5.69219	0.1566729	0.25565184	2.4586881	21	7 16.9	18.8
142150 2002 RT_{21}	16.2	X	11.42052	347.90762	33.10437	1.76173	0.1882695	0.26692225	2.3889819	21	—	—
142151 2002 RN_{24}	16.9	X	25.57304	187.59150	175.07759	5.30278	0.2059549	0.26725930	2.3869730	21	12 31.4	19.9
142152 2002 RO_{24}	16.3	X	147.98800	227.97015	204.75195	2.86698	0.2008683	0.24047382	2.5610861	21	4 29.9	20.3
142153 2002 RS_{24}	15.8	X	253.16534	199.74497	331.75844	6.33618	0.0636505	0.27340545	2.3510648	21	—	—
142154 2002 RM_{28}	16.8	X	32.49041	268.97469	354.41359	2.23263	0.1760466	0.25970355	2.4330486	21	8 16.6	19.0
142155 2002 RT_{28}	15.8	X	239.26822	27.78522	271.20036	3.75932	0.0964621	0.23608465	2.5927315	21	2 7.1	19.6
142156 2002 RX_{29}	16.3	X	0.06317	175.06374	227.83650	5.55593	0.1337529	0.26859283	2.3790657	21	—	—
142157 2002 RB_{30}	16.1	X	230.41265	135.95712	287.03403	5.63449	0.1041643	0.25235883	2.4800307	21	7 7.8	19.5
142158 2002 RS_{30}	17.1	X	99.79122	109.77257	202.89363	4.99148	0.2472124	0.27336259	2.3513106	21	—	—
142159 2002 RT_{30}	15.9	X	271.15801	51.20062	232.52608	5.16376	0.1197588	0.24127215	2.5554335	21	2 17.9	19.7
142160 2002 RN_{31}	16.2	X	294.53185	168.48383	319.59601	6.79777	0.0598121	0.27184611	2.3600469	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
142161 2002 RR_{31}	16.0	X	135.67275	165.94682	256.14075	3.73913	0.1910245	0.23699302	2.5861022	21	4 1.9	20.0
142162 2002 RY_{31}	16.4	X	214.58148	101.01983	227.54393	3.92057	0.1556610	0.23834953	2.5762807	21	2 17.2	20.5
142163 2002 RF_{32}	16.5	X	23.21044	326.04236	332.81738	8.51830	0.2076244	0.26002657	2.4310333	21	9 24.1	18.8
142164 2002 RG_{32}	16.1	X	64.16355	307.56797	324.19934	5.76693	0.1006258	0.26114814	2.4240678	21	10 2.0	19.3
142165 2002 RF_{33}	16.4	X	52.47465	9.59260	324.29735	6.11954	0.1209266	0.26787548	2.3833111	21	12 15.5	19.5
142166 2002 RK_{34}	16.4	X	314.01920	301.03920	93.43081	3.39255	0.1975602	0.25879243	2.4387560	21	9 20.4	18.4
142167 2002 RM_{34}	15.7	X	345.48631	60.41287	32.45127	6.59743	0.0505386	0.27291663	2.3538713	21	—	—
142168 2002 RC_{35}	16.2	X	313.28549	114.97801	327.76587	9.18038	0.0766134	0.26788623	2.3832474	21	12 8.8	19.0
142169 2002 RS_{35}	15.8	X	151.97725	79.39819	324.42200	16.05950	0.2207885	0.23776687	2.5804879	21	3 22.8	20.2
142170 2002 RP_{36}	16.3	X	83.79428	343.16961	346.39870	9.04072	0.1149564	0.27375930	2.3490384	21	—	—
142171 2002 RE_{38}	16.7	X	63.48441	310.42124	14.04584	3.65537	0.1888098	0.26997874	2.3709169	21	12 25.1	20.1
142172 2002 RK_{39}	15.9	X	356.62005	286.40356	43.10813	2.57498	0.2118576	0.26033694	2.4291007	21	9 18.8	17.5
142173 2002 RN_{39}	15.9	X	252.91949	62.64191	349.08376	6.28556	0.1623618	0.25421417	2.4679492	21	7 13.4	19.5
142174 2002 RO_{39}	16.8	X	15.86084	232.43589	105.07251	2.40062	0.1923248	0.26394422	2.4069179	21	11 9.6	19.2
142175 2002 RB_{40}	16.5	X	319.72912	247.25310	132.07280	2.80554	0.2207784	0.25950883	2.4342655	21	9 4.4	18.1
142176 2002 RE_{40}	15.0	X	124.60947	239.58937	80.01547	1.83611	0.2064614	0.17273617	3.1931099	21	—	—
142177 2002 RT_{40}	15.5	X	216.00873	239.96678	75.34910	2.14711	0.1330404	0.18554713	3.0443872	21	2 12.1	20.4
142178 2002 RW_{41}	16.4	X	214.12700	356.02452	20.61509	3.44760	0.1375580	0.24445257	2.5332204	21	4 18.1	20.2
142179 2002 RL_{43}	16.0	X	352.96759	3.73388	80.47459	3.30654	0.1708285	0.27234855	2.3571434	21	—	—
142180 2002 RN_{43}	16.4	X	147.83554	302.71720	355.00674	6.94779	0.1164559	0.27776171	2.3264183	21	—	—
142181 2002 RP_{45}	16.2	X	42.52564	257.02729	38.38106	2.67862	0.2039155	0.26282107	2.4137702	21	10 24.2	18.8
142182 2002 RW_{45}	16.8	X	113.82234	300.38743	67.66417	1.93470	0.2509691	0.28009460	2.3134825	21	—	—
142183 2002 RP_{46}	16.2	X	323.68374	299.99358	91.91908	2.43153	0.1901221	0.26081729	2.4261173	21	10 9.8	18.0
142184 2002 RC_{47}	16.0	X	62.35077	356.92749	13.38978	6.44761	0.1395178	0.27328346	2.3517644	21	—	—
142185 2002 RV_{47}	16.1	X	358.53196	347.19704	59.60879	3.59721	0.1629859	0.26781807	2.3836517	21	—	—
142186 2002 RW_{47}	16.2	X	338.61135	338.37338	143.39133	5.61139	0.0954684	0.27781350	2.3261291	21	—	—
142187 2002 RZ_{47}	16.5	X	80.15290	238.13940	54.40531	2.10162	0.1777692	0.26760951	2.3848900	21	11 30.3	20.1
142188 2002 RC_{49}	16.2	X	46.55155	225.79744	120.39274	2.13902	0.2078297	0.26812461	2.3818346	21	—	—
142189 2002 RO_{49}	16.1	X	345.67304	295.65537	104.18830	3.62713	0.1836348	0.26454835	2.4032522	21	12 12.6	17.9
142190 2002 RN_{50}	16.0	X	339.28432	184.02257	145.59840	6.82338	0.1154603	0.25561026	2.4589547	21	8 5.9	18.3
142191 2002 RV_{50}	16.6	X	1.41687	261.57740	123.29748	3.39726	0.2266119	0.26467006	2.4025154	21	12 27.7	18.8
142192 2002 RU_{51}	15.9	X	141.12728	226.02452	137.46374	5.11592	0.2055340	0.23036959	2.6354369	21	1 29.2	19.8
142193 2002 RU_{52}	17.2	X	17.16982	272.79417	73.58410	2.64635	0.1885079	0.26469857	2.4023428	21	11 23.5	19.5
142194 2002 RF_{53}	16.0	X	30.76765	30.96264	359.17080	4.90535	0.1900559	0.27076571	2.3663207	21	—	—
142195 2002 RK_{54}	16.4	X	333.45968	179.40648	150.88833	6.84089	0.1392955	0.25482868	2.4639800	21	7 23.9	18.9
142196 2002 RP_{54}	16.8	X	11.72568	230.20241	134.98095	5.75729	0.1784940	0.26605815	2.3941518	21	12 10.4	19.4
142197 2002 RT_{55}	17.1	X	29.32963	125.17062	210.76304	5.14569	0.1947522	0.26437284	2.4043157	21	11 29.1	19.9
142198 2002 RN_{56}	16.1	X	162.78076	262.45897	331.80073	6.37868	0.0844787	0.26860553	2.3789907	21	12 6.5	19.6
142199 2002 RC_{57}	15.9	X	81.74956	105.58916	313.98757	3.47623	0.1287435	0.22850864	2.6497260	21	1 13.7	19.0
142200 2002 RF_{57}	16.5	X	2.67935	183.53298	201.84197	6.97630	0.1039128	0.26597016	2.3946797	21	12 12.3	19.1
142201 2002 RN_{57}	15.9	X	139.55501	177.73486	271.76869	3.26184	0.1348685	0.24118126	2.5560755	21	5 5.9	19.8
142202 2002 RY_{57}	16.8	X	306.94395	138.42611	214.48780	4.20302	0.2138342	0.25434084	2.4671297	21	6 25.9	19.4
142203 2002 RJ_{58}	16.4	X	288.82690	210.37611	236.53996	3.51483	0.1869912	0.26168292	2.4207641	21	10 18.8	18.8
142204 2002 RH_{59}	16.3	X	270.57498	125.32520	313.19817	6.12888	0.0755331	0.25981958	2.4323242	21	9 22.3	19.4
142205 2002 RP_{60}	16.2	X	257.37449	31.12372	255.71308	4.73724	0.1814745	0.24035915	2.5619006	21	2 3.9	20.4
142206 2002 RD_{61}	15.6	X	56.71495	256.40831	169.86238	13.03972	0.2589496	0.22337394	2.6901782	21	—	—
142207 2002 RY_{61}	16.1	X	86.00215	280.55768	25.40863	7.15746	0.1317410	0.26717595	2.3874693	21	12 18.4	19.7
142208 2002 RT_{62}	15.9	X	176.65190	272.49716	159.03036	4.55308	0.2164319	0.24021350	2.5629361	21	5 24.9	20.3
142209 2002 RX_{62}	15.9	X	249.90404	232.29722	112.57680	3.54199	0.2394713	0.24294979	2.5436559	21	4 7.8	20.0
142210 2002 RG_{63}	16.1	X	189.66490	336.83742	66.84861	6.02082	0.2473586	0.23932926	2.5692450	21	5 1.6	20.6
142211 2002 RH_{63}	15.7	X	60.80977	303.96690	76.84366	6.79995	0.1337163	0.27061014	2.3672276	21	—	—
142212 2002 RG_{64}	15.4	X	30.07813	271.43369	178.85693	12.38307	0.1278018	0.22222377	2.6994526	21	—	—
142213 2002 RN_{65}	14.7	X	259.00843	315.57983	53.22725	16.07086	0.2343009	0.24422418	2.5347995	21	5 14.6	18.7
142214 2002 RW_{65}	14.9	X	70.77650	353.81672	68.89732	14.52248	0.1517587	0.22194146	2.7017413	21	1 3.9	18.0
142215 2002 RD_{68}	16.3	X	44.40168	137.66765	246.82098	6.49801	0.1670058	0.27240135	2.3568388	21	—	—
142216 2002 RW_{69}	16.7	X	270.91207	58.06549	356.68782	1.64378	0.0655058	0.25782476	2.4448542	21	8 24.9	19.5
142217 2002 RG_{70}	16.3	X	335.11965	113.39002	223.20687	6.15050	0.1740098	0.25789759	2.4443939	21	8 1.9	18.6
142218 2002 RG_{72}	16.4	X	92.18040	259.08339	21.17346	1.38841	0.1712059	0.26867116	2.3786033	21	11 26.2	19.9
142219 2002 RS_{72}	16.3	X	45.63706	122.68765	171.06775	7.09824	0.1055019	0.26250983	2.4156778	21	10 11.7	19.2
142220 2002 RD_{73}	16.3	X	213.57934	127.47323	171.69278	5.09912	0.1055104	0.23518008	2.5993755	21	1 13.0	20.4
142221 2002 RL_{73}	16.5	X	91.93009	94.82432	174.02678	5.35287	0.1215355	0.26625228	2.3929879	21	11 8.4	19.9
142222 2002 RP_{74}	17.2	X	147.03701	111.79415	169.72408	2.38138	0.2133484	0.27691101	2.3311805	21	—	—
142223 2002 RE_{75}	16.8	X	69.59810	64.55978	221.39575	0.53926	0.2557628	0.26661535	2.3908149	21	11 19.7	20.4
142224 2002 RF_{75}	16.8	X	141.10629	339.58271	271.28120	0.71557	0.1933579	0.27184715	2.3600409	21	12 4.9	20.5
142225 2002 RP_{76}	16.6	X	63.91232	359.29821	6.50836	4.46380	0.1204662	0.27333256	2.3514828	21	—	—
142226 2002 RE_{77}	16.0	X	306.60246	250.05838	177.85460	5.65886	0.0769562	0.26449254	2.4035902	21	11 8.2	18.6
142227 2002 RA_{81}	16.4	X	25.24355	119.86614	157.04456	3.19665	0.1811921	0.25720248	2.4487960	21	8 23.2	18.7
142228 2002 RB_{81}	16.2	X	84.40863	158.09657	141.27270	1.66496	0.1882428	0.26877575	2.3779862	21	12 14.3	19.7
142229 2002 RE_{81}	16.9	X	95.71992	268.82378	24.69715	2.34159	0.1856256	0.26962632	2.3729824	21	12 17.2	20.6
142230 2002 RR_{81}	16.5	X	29.48135	141.16760	181.76707	3.37657	0.1916576	0.26310411	2.4120388	21	11 10.9	19.2
142231 2002 RZ_{82}	16.4	X	232.77428	129.95173	198.45728	2.92220	0.2107753	0.24070147	2.5594711	21	3 3.9	20.8
142232 2002 RN_{83}	16.9	X	42.06886	36.97040	8.11657	2.02407	0.2737763	0.27198753	2.3592288	21	—	—
142233 2002 RZ_{84}	16.6	X	312.00935	162.39507	248.41218	1.44794	0.1671269	0.26021514	2.4298586	21	10 12.9	18.9
142234 2002 RH_{85}	16.4	X	133.53840	77.83963	328.93933	2.53735	0.2393443	0.23338551	2.6126834	21	3 18.2	20.3
142235 2002 RA_{89}	17.3	X	70.34123	117.30761	183.51124	1.12304	0.1856340	0.26757457	2.3850976	21	12 1.8	20.8
142236 2002 RE_{89}	15.9	X	278.03051	169.94029	328.80422	5.10312	0.1923764	0.27059301	2.3673275	21	12 17.2	18.1
142237 2002 RA_{90}	16.6	X	157.71792	91.41038	166.33609	4.01161	0.2198970	0.27484694	2.3428372	21	12 26.5	20.5
142238 2002 RE_{90}	16.8	X	53.74880	321.52972	346.80008	1.55357	0.2261320	0.26558753	2.3969792	21	11 27.6	20.1
142239 2002 RJ_{93}	16.0	X	95.68521	30.83203	273.56833	5.00829	0.1340866	0.27046205	2.3680916	21	12 27.5	19.5
142240 2002 RE_{96}	16.7	X	36.81675	95.92920	251.13808	1.25529	0.1629441	0.26554206	2.3972528	21	12 18.9	19.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
142241 2002 RT_{96}	16.6	X	14.81602	304.60559	19.70605	1.47137	0.1939558	0.26001324	2.4311163	21	10 17.5	18.8
142242 2002 RP_{97}	17.0	X	46.18728	74.08739	233.77150	0.91004	0.2479513	0.26335171	2.4105268	21	11 21.3	20.2
142243 2002 RQ_{99}	14.4	X	140.61272	301.82960	30.78178	5.42135	0.1442494	0.17290808	3.1909931	21	—	—
142244 2002 RD_{100}	15.1	X	146.46903	5.59328	10.19539	12.23468	0.1106545	0.23093424	2.6311392	21	2 13.2	19.0
142245 2002 RL_{100}	16.2	X	221.81997	196.52540	181.20120	13.30236	0.2792125	0.24282495	2.5445277	21	4 24.2	20.8
142246 2002 RR_{100}	16.3	X	186.07084	243.95887	185.00124	11.83136	0.2788013	0.24141556	2.5544214	21	5 30.1	21.1
142247 2002 RS_{100}	16.4	X	340.31129	335.48849	42.04544	1.96066	0.1987987	0.25941134	2.4348754	21	10 25.7	18.0
142248 2002 RX_{100}	16.3	X	146.31332	46.11224	352.40504	2.50983	0.2661107	0.23304117	2.6152564	21	3 22.5	20.6
142249 2002 RE_{102}	15.5	X	195.09479	339.13059	22.66136	12.88864	0.1814989	0.23577709	2.5949858	21	3 18.3	19.8
142250 2002 RO_{102}	15.4	X	221.76726	339.46563	32.24323	10.18963	0.1130644	0.24004309	2.5641489	21	4 21.2	19.2
142251 2002 RX_{102}	14.9	X	45.68898	237.97990	201.72217	25.27891	0.3308521	0.22016517	2.7162536	21	—	—
142252 2002 RA_{104}	15.9	X	253.33191	279.36884	22.72593	12.17154	0.2466721	0.23958944	2.5673846	21	2 21.7	20.4
142253 2002 RN_{104}	16.0	X	226.94412	353.98895	18.40989	4.43184	0.2183227	0.24223893	2.5486298	21	4 21.3	20.3
142254 2002 RQ_{105}	15.8	X	154.54320	227.32862	178.26020	3.47902	0.2085699	0.23426954	2.6061065	21	4 3.3	20.0
142255 2002 RQ_{106}	15.8	X	160.29995	356.55587	24.44688	3.86191	0.2266819	0.23173891	2.6250450	21	3 11.8	20.1
142256 2002 RS_{106}	15.0	X	53.73588	183.79674	210.44527	17.99224	0.2931816	0.21724076	2.7405760	21	—	—
142257 2002 RT_{106}	15.2	X	9.26772	15.23871	44.19806	10.48397	0.2315186	0.21306077	2.7763042	21	—	—
142258 2002 RZ_{106}	15.5	X	71.00587	13.34713	23.66017	9.99930	0.2382390	0.21962871	2.7206749	21	—	—
142259 2002 RD_{107}	15.0	X	224.05303	339.26246	38.01504	14.39485	0.2303830	0.23996841	2.5646808	21	4 25.6	19.5
142260 2002 RL_{107}	15.4	X	197.39141	1.39929	38.10560	5.24828	0.2883447	0.23793054	2.5793043	21	4 30.9	20.1
142261 2002 RS_{107}	15.9	X	154.42304	212.31376	218.35191	4.83232	0.2407449	0.23540201	2.5977415	21	5 5.8	20.3
142262 2002 RW_{107}	15.8	X	240.70329	355.64301	348.19600	2.30127	0.2370756	0.23978886	2.5659610	21	3 28.2	20.0
142263 2002 RP_{108}	17.0	X	335.31391	168.47677	156.46100	1.40168	0.1845190	0.25566384	2.4586111	21	7 15.3	18.8
142264 2002 RW_{108}	16.7	X	70.69512	346.93011	324.34497	1.64524	0.1878570	0.26813927	2.3817478	21	12 15.4	20.1
142265 2002 RO_{111}	15.8	X	98.11061	12.29450	26.62432	7.34548	0.1699512	0.22497755	2.6773794	21	1 20.1	19.2
142266 2002 RQ_{111}	15.4	X	281.60759	357.91151	327.82249	7.25983	0.2538706	0.24419728	2.5349857	21	4 6.6	19.2
142267 2002 RN_{113}	16.8	X	80.88854	254.08577	13.96640	4.62416	0.2103039	0.26587343	2.3952605	21	11 2.5	20.2
142268 2002 RW_{113}	16.1	X	253.50760	93.50569	329.47123	5.09737	0.0418679	0.25707495	2.4496059	21	8 15.6	19.0
142269 2002 RE_{114}	16.5	X	283.68258	257.48706	123.95586	3.32982	0.1919066	0.25341739	2.4731195	21	7 5.1	19.4
142270 2002 RJ_{114}	16.2	X	245.37083	252.81847	35.36810	3.89411	0.2042733	0.23820308	2.5773365	21	1 28.2	20.5
142271 2002 RY_{114}	16.5	X	234.77583	15.02500	250.41015	2.99790	0.1699575	0.28714891	2.2754359	21	—	—
142272 2002 RB_{115}	15.0	X	265.20305	342.86247	280.25066	4.99258	0.0707599	0.18492564	3.0512044	21	2 1.5	19.5
142273 2002 RD_{115}	15.3	X	235.56480	257.86696	323.92225	12.21411	0.1167327	0.22751503	2.6574350	21	—	—
142274 2002 RO_{115}	16.1	X	163.86831	147.17156	1.26570	4.78106	0.0500777	0.25709154	2.4495005	21	8 18.3	19.4
142275 Simonyi	15.9	X	199.61329	188.26607	198.46956	21.78357	0.0639264	0.24022940	2.5628230	21	4 18.3	19.5
142276 2002 RX_{118}	16.3	X	91.05631	276.54825	49.59694	10.48897	0.2551909	0.27398763	2.3477332	21	—	—
142277 2002 RJ_{119}	16.0	X	146.04607	98.18163	298.44731	7.52352	0.2018100	0.23721586	2.5844823	21	3 10.7	20.1
142278 2002 RY_{120}	16.5	X	243.41006	236.04758	199.33036	2.30761	0.1554460	0.25420647	2.4679990	21	8 2.1	20.1
142279 2002 RH_{121}	15.1	X	32.87531	108.94100	335.01769	10.99095	0.1556242	0.22291184	2.6938948	21	—	—
142280 2002 RR_{121}	15.7	X	219.76408	3.42369	329.95994	9.44355	0.2354652	0.23779472	2.5802864	21	2 27.3	20.1
142281 2002 RJ_{122}	15.8	X	256.45960	195.70314	107.00538	8.35720	0.1947016	0.24168519	2.5525212	21	2 25.3	19.9
142282 2002 RT_{128}	15.3	X	94.66624	266.32137	273.46972	13.67454	0.1117860	0.25246249	2.4793517	21	7 9.5	18.5
142283 2002 RJ_{130}	16.2	X	340.07554	338.00890	38.02615	7.41819	0.1313144	0.26300698	2.4126326	21	10 21.4	18.4
142284 2002 RO_{132}	16.7	X	102.75442	35.28065	267.03926	5.86809	0.1456286	0.27089031	2.3655951	21	—	—
142285 2002 RR_{132}	16.2	X	260.67824	95.01318	359.86818	6.28050	0.0861199	0.26190179	2.4194152	21	10 1.8	19.2
142286 2002 RB_{134}	15.9	X	5.39345	251.98215	69.68467	9.21960	0.0921020	0.25863575	2.4397408	21	9 18.7	18.7
142287 2002 RZ_{134}	16.0	X	22.40943	298.81717	6.27588	10.80897	0.2581970	0.26139990	2.4225111	21	10 12.7	18.4
142288 2002 RW_{135}	16.2	X	32.90777	284.26299	51.35896	6.48546	0.2125039	0.26562728	2.3967400	21	12 5.6	19.0
142289 2002 RJ_{137}	15.5	X	198.93958	216.63094	154.22923	14.19577	0.1962061	0.23669569	2.5882674	21	3 31.8	19.9
142290 2002 RB_{138}	15.8	X	210.29969	247.91072	139.05700	12.38831	0.2925439	0.24209528	2.5496379	21	4 29.3	20.6
142291 Dompfaff	17.0	X	4.20884	24.18276	309.79390	3.73734	0.1484698	0.26066283	2.4270756	21	10 2.8	19.4
142292 2002 RF_{142}	16.7	X	281.26169	284.63970	212.24361	6.02978	0.0702241	0.27107470	2.3645222	21	—	—
142293 2002 RH_{142}	16.3	X	270.75151	7.99637	256.94913	3.69008	0.2363932	0.24026480	2.5625713	21	1 17.6	20.4
142294 2002 RY_{142}	16.0	X	200.06017	141.54495	328.86132	7.01650	0.0858481	0.25419754	2.4680568	21	8 8.0	19.4
142295 2002 RV_{143}	16.6	X	298.31169	158.19283	291.41369	2.89598	0.1807000	0.26382788	2.4076254	21	11 12.3	18.5
142296 2002 RP_{144}	16.3	X	252.98554	135.22481	330.83035	6.56604	0.0715343	0.26123306	2.4235424	21	10 6.5	19.4
142297 2002 RF_{145}	16.2	X	262.84045	56.89586	19.57732	5.26765	0.0804822	0.25838681	2.4413075	21	9 12.1	19.3
142298 2002 RO_{145}	16.6	X	320.66521	341.23581	105.67348	2.22880	0.1552523	0.26730287	2.3867136	21	12 30.2	18.6
142299 2002 RO_{147}	16.8	X	334.32558	192.04765	174.78381	2.66955	0.1086418	0.25954884	2.4340154	21	9 24.4	18.9
142300 2002 RY_{148}	16.2	X	14.88888	126.09191	263.55294	5.35561	0.1127036	0.26999635	2.3708138	21	—	—
142301 2002 RT_{149}	15.9	X	264.58321	235.25002	264.56430	5.88482	0.0572651	0.26863387	2.3788234	21	12 14.8	18.5
142302 2002 RR_{150}	16.0	X	215.39631	74.81955	218.52338	7.48651	0.1349494	0.28603818	2.2813226	21	—	—
142303 2002 RW_{153}	16.3	X	204.58609	82.36051	198.67424	3.36421	0.1099120	0.22935381	2.6432125	21	—	—
142304 2002 RZ_{154}	16.0	X	169.16426	309.93713	119.38688	9.51427	0.2160686	0.24009822	2.5637564	21	5 17.8	20.4
142305 2002 RN_{155}	16.6	X	77.71974	160.13794	188.17277	6.56023	0.1337746	0.27306540	2.3530163	21	—	—
142306 2002 RL_{157}	16.2	X	344.12123	233.32127	317.49857	2.18947	0.1237628	0.23652224	2.5895327	21	1 24.4	19.3
142307 2002 RS_{158}	16.8	X	175.31246	10.36050	273.57020	1.15666	0.1781991	0.22747345	2.6577589	21	—	—
142308 2002 RJ_{162}	16.4	X	258.38975	310.56150	193.29853	2.47658	0.0978796	0.26905051	2.3763670	21	12 5.8	19.0
142309 2002 RZ_{162}	16.7	X	358.59877	137.78435	352.39757	3.84991	0.1840224	0.28016520	2.3130939	21	—	—
142310 2002 RE_{164}	17.1	X	315.26386	129.28307	188.51084	2.33498	0.1623340	0.25208155	2.4818489	21	5 28.5	19.7
142311 2002 RR_{164}	16.3	X	267.41275	71.96019	188.09499	3.68761	0.1062682	0.23691098	2.5866992	21	1 19.2	20.1
142312 2002 RU_{164}	16.9	X	152.46107	71.78164	196.31160	1.79224	0.1368538	0.27430794	2.3459052	21	—	—
142313 2002 RD_{165}	17.4	X	308.70637	233.97907	176.21796	2.28254	0.1922370	0.26035119	2.4290120	21	10 2.9	19.6
142314 2002 RH_{165}	16.6	X	73.02094	195.69666	178.32967	7.48247	0.1283695	0.27719170	2.3296065	21	—	—
142315 2002 RU_{165}	16.1	X	130.06653	199.77676	341.38485	3.24168	0.1513448	0.25608158	2.4559366	21	8 27.3	19.7
142316 2002 RB_{166}	17.3	X	110.97765	117.85819	181.09988	2.53974	0.1599454	0.27249297	2.3563105	21	—	—
142317 2002 RE_{166}	16.2	X	197.90510	175.95080	345.89761	2.54874	0.1314154	0.26269358	2.4145512	21	10 8.5	19.8
142318 2002 RQ_{166}	16.6	X	187.22672	42.46410	340.08401	3.12137	0.2702441	0.24118479	2.5560505	21	4 2.4	21.2
142319 2002 RD_{168}	16.9	X	96.85561	74.55920	181.64489	2.31524	0.1639422	0.26467283	2.4024986	21	10 31.3	20.5
142320 2002 RH_{169}	16.0	X	287.45696	108.85268	173.95110	13.39316	0.1558343	0.24328094	2.5413471	21	3 3.7	19.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
142321 2002 RO_{171}	15.5	X	250.45011	30.28251	27.81043	7.20775	0.1421281	0.25404447	2.4690481	21	7 22.6	19.1
142322 2002 RX_{171}	17.6	X	291.31343	13.84729	358.48009	1.68778	0.2114161	0.25341501	2.4731350	21	6 30.1	20.5
142323 2002 RW_{172}	16.5	X	69.55095	229.44748	54.80020	8.16749	0.2833189	0.26568708	2.3963804	21	11 20.1	20.2
142324 2002 RC_{173}	15.5	X	64.74880	20.04460	50.65429	10.17020	0.1584841	0.27952916	2.3166013	21	—	—
142325 2002 RB_{175}	16.9	X	169.26148	63.18746	242.27959	4.69904	0.1798120	0.28197463	2.3031879	21	—	—
142326 2002 RZ_{176}	16.5	X	8.20618	300.21273	193.94330	8.66104	0.1425009	0.28221531	2.3018782	21	—	—
142327 2002 RH_{180}	16.6	X	263.78153	123.80114	177.21985	5.85721	0.1824273	0.24144935	2.5541831	21	2 27.5	20.5
142328 2002 RL_{180}	17.0	X	78.58698	319.99424	345.55606	1.78514	0.1886226	0.26801130	2.3825059	21	12 16.0	20.5
142329 2002 RW_{182}	16.4	X	235.64627	39.38802	313.12279	14.49842	0.1432668	0.24347027	2.5400295	21	3 31.8	20.7
142330 2002 RE_{185}	15.7	X	297.91616	45.19027	242.80825	8.33176	0.1308007	0.24507932	2.5288997	21	3 23.6	19.3
142331 2002 RL_{186}	17.0	X	114.21859	60.30362	220.78257	8.96676	0.2408501	0.27122709	2.3636364	21	12 20.0	21.2
142332 2002 RG_{187}	16.1	X	117.13083	359.51643	260.05318	5.65815	0.1118724	0.26668106	2.3904222	21	11 20.7	19.7
142333 2002 RX_{187}	16.3	X	257.07023	40.47355	54.88212	1.50303	0.0368769	0.26159374	2.4213142	21	10 6.5	19.2
142334 2002 RM_{189}	16.9	X	44.62227	153.63447	194.18318	6.12580	0.1375347	0.26848955	2.3796758	21	12 26.4	20.0
142335 2002 RU_{189}	16.3	X	345.40901	227.00435	190.73517	6.37107	0.0915893	0.26842093	2.3800814	21	12 28.2	18.9
142336 2002 RL_{190}	17.1	X	145.16377	35.09789	235.94714	1.60037	0.2008547	0.27450712	2.3447703	21	—	—
142337 2002 RR_{195}	16.3	X	345.72455	152.68715	4.77892	7.57378	0.0374967	0.28405984	2.2919026	21	—	—
142338 2002 RT_{199}	17.5	X	60.09565	277.51883	23.72450	1.52677	0.2142921	0.26578651	2.3957827	21	11 24.1	20.7
142339 2002 RX_{201}	16.1	X	39.77181	201.50381	76.76321	7.33407	0.1225769	0.25894248	2.4378137	21	9 15.9	19.0
142340 2002 RP_{202}	15.9	X	260.62337	211.27991	286.43391	4.51699	0.1080203	0.26713724	2.3877000	21	11 27.7	18.7
142341 2002 RM_{203}	16.6	X	71.38349	44.99221	335.94888	6.65945	0.1343602	0.27785359	2.3259054	21	—	—
142342 2002 RR_{203}	16.5	X	81.96546	29.60055	336.81191	5.95936	0.1227227	0.27739154	2.3284875	21	—	—
142343 2002 RK_{204}	16.5	X	316.28155	77.61464	344.30347	2.04384	0.1840338	0.26418594	2.4054495	21	11 8.8	18.4
142344 2002 RM_{205}	16.1	X	223.51526	327.64982	185.59632	7.36556	0.1115183	0.26480204	2.4017170	21	10 30.7	19.4
142345 2002 RC_{207}	16.3	X	221.12138	96.26068	187.67522	14.66631	0.1031225	0.23265608	2.6181415	21	1 1.9	20.6
142346 2002 RN_{207}	16.5	X	114.87098	259.24731	6.01505	1.05645	0.1665012	0.26824778	2.3811054	21	11 28.6	20.2
142347 2002 RT_{208}	17.2	X	64.07413	292.94138	358.39100	1.87010	0.2166175	0.26457849	2.4030696	21	11 15.6	20.5
142348 2002 RX_{211}	18.1	X	91.53073	324.35992	96.64723	6.06859	0.4571710	0.33210206	2.0651662	21	3 10.5	19.6
142349 2002 RR_{212}	16.0	X	190.63425	1.84638	48.19414	13.45937	0.1806617	0.24228500	2.5483067	21	5 8.4	20.0
142350 2002 RA_{213}	16.2	X	357.66826	276.49259	70.07642	7.48715	0.1467899	0.26220910	2.4175244	21	10 15.5	18.5
142351 2002 RJ_{213}	16.6	X	185.67630	344.68265	91.97779	6.19006	0.1967610	0.29952262	2.2123286	21	6 5.6	19.9
142352 2002 RW_{214}	16.8	X	326.07021	308.46916	21.67332	5.82269	0.2077254	0.25568984	2.4584444	21	6 29.9	19.1
142353 2002 RC_{217}	17.0	X	76.02526	86.40935	255.99150	1.07492	0.1880559	0.27303719	2.3531783	21	—	—
142354 2002 RL_{217}	17.1	X	34.99538	20.37674	325.48406	0.99405	0.1431030	0.26749720	2.3855575	21	12 12.2	19.8
142355 2002 RT_{218}	15.5	X	212.34880	113.14393	163.39511	12.02975	0.0246141	0.22804547	2.6533126	21	—	—
142356 2002 RX_{218}	16.5	X	16.42680	220.60784	86.70896	2.94036	0.1689792	0.26094705	2.4253129	21	9 22.9	18.8
142357 2002 RE_{219}	16.6	X	45.27836	216.89300	32.39553	2.58677	0.1717211	0.25812237	2.4429746	21	8 18.2	19.1
142358 2002 RW_{220}	16.3	X	198.13240	157.26924	129.59583	5.49877	0.1281929	0.23128821	2.6284541	21	—	—
142359 2002 RP_{223}	16.3	X	172.94026	221.96677	144.87590	9.76512	0.1075389	0.23586221	2.5943614	21	2 25.2	20.0
142360 2002 RL_{224}	17.2	X	31.98243	101.07107	227.38441	5.63230	0.1205283	0.26449273	2.4035891	21	11 10.1	20.0
142361 2002 RO_{225}	16.0	X	280.57301	53.80333	191.50660	14.42433	0.0503188	0.23550671	2.5969716	21	1 19.6	19.9
142362 2002 RD_{226}	16.6	X	153.97433	188.44200	99.27661	4.27877	0.2398219	0.27777417	2.3263487	21	—	—
142363 2002 RH_{227}	17.2	X	24.91768	338.53541	308.47321	1.81671	0.2236147	0.25924263	2.4359317	21	9 14.2	19.3
142364 2002 RD_{228}	15.9	X	14.09779	300.47799	92.88476	7.48768	0.1214660	0.26967469	2.3726987	21	—	—
142365 2002 RT_{228}	16.2	X	23.13132	230.67786	88.35353	7.63355	0.1442357	0.26232120	2.4168357	21	10 21.3	18.9
142366 2002 RD_{230}	16.0	X	321.35812	285.89598	115.00167	7.10557	0.1586245	0.25946599	2.4345335	21	10 23.1	18.2
142367 2002 RC_{233}	16.9	X	100.37055	204.23039	100.89410	2.73826	0.0835579	0.27133767	2.3629942	21	12 30.2	20.3
142368 Majden	16.5	X	257.02419	306.03285	279.83470	0.94532	0.1281764	0.28409641	2.2917059	21	—	—
142369 Johnhodges	16.7	X	134.07043	8.15927	162.01444	7.12725	0.0835007	0.25638390	2.4540056	21	8 10.9	20.2
142370 2002 RZ_{239}	17.1	X	160.06228	101.41540	131.97045	0.82133	0.1688452	0.27272607	2.3549677	21	11 30.8	20.9
142371 2002 RB_{240}	17.0	X	2.51295	8.18352	212.24162	3.66139	0.1330152	0.29860154	2.2168758	21	3 23.6	18.9
142372 2002 RN_{243}	15.7	X	291.26821	270.42456	323.58636	13.34148	0.0414253	0.23756108	2.5819779	21	1 24.1	19.3
142373 2002 RJ_{244}	17.1	X	59.58647	222.07605	172.74863	3.09828	0.1800125	0.27655290	2.3331925	21	—	—
142374 2002 RX_{246}	17.1	X	10.64310	105.55911	225.00561	2.06029	0.1059208	0.26272312	2.4143701	21	10 6.5	19.5
142375 2002 RL_{247}	16.6	X	14.91701	340.98906	88.01121	6.54534	0.1522804	0.27458740	2.3443133	21	—	—
142376 2002 RM_{248}	16.4	X	295.65656	185.49880	343.26918	4.46860	0.1310077	0.27943732	2.3171089	21	—	—
142377 2002 RW_{249}	16.6	X	162.53786	10.76103	222.78266	4.97688	0.0547580	0.26929881	2.3749060	21	12 8.0	19.8
142378 2002 SJ_{1}	16.5	X	230.32308	37.88886	311.67469	3.11086	0.2038266	0.24215897	2.5491908	21	3 26.9	20.9
142379 2002 SN_{3}	17.1	X	178.30495	252.21250	106.95156	1.70844	0.1374857	0.23560508	2.5962486	21	2 22.9	21.2
142380 2002 SB_{5}	16.2	X	186.71383	30.03316	27.15556	6.91071	0.1842413	0.24247908	2.5469468	21	5 12.7	20.4
142381 2002 SE_{5}	15.6	X	340.89064	256.25144	160.57615	5.25346	0.1474549	0.21255797	2.7806807	21	12 8.8	18.6
142382 2002 SS_{5}	16.2	X	194.78363	209.53510	182.83200	6.18157	0.2994572	0.24066365	2.5597392	21	4 21.7	20.9
142383 2002 SX_{6}	16.7	X	113.00599	83.66559	195.39889	2.07727	0.1950687	0.26896413	2.3768757	21	12 15.3	20.5
142384 2002 SX_{8}	16.5	X	319.92674	29.81898	113.39033	1.60716	0.1038335	0.27462157	2.3441188	21	—	—
142385 2002 SZ_{8}	16.7	X	2.04759	140.85514	199.03242	1.83731	0.2358868	0.26019474	2.4299856	21	10 21.8	18.6
142386 2002 SU_{9}	15.5	X	27.12793	168.13266	22.23859	14.15642	0.0747236	0.24012233	2.5635848	21	4 7.9	18.2
142387 2002 SV_{10}	16.3	X	219.87538	107.96917	70.07076	3.26830	0.0373063	0.26635289	2.3923852	21	12 7.2	19.3
142388 2002 SL_{11}	16.2	X	123.29701	272.81263	188.72527	11.74836	0.0450319	0.24022762	2.5628357	21	4 23.9	19.6
142389 2002 SQ_{11}	16.1	X	252.82114	272.83525	7.39673	4.79661	0.1773930	0.23620654	2.5918395	21	1 26.8	20.2
142390 2002 SR_{12}	15.6	X	14.33085	182.71433	51.75406	2.56861	0.0471032	0.24501824	2.5293199	21	5 18.3	18.4
142391 2002 SY_{13}	16.4	X	117.13172	245.51179	7.41826	6.51027	0.0524136	0.26447675	2.4036859	21	11 7.0	19.7
142392 2002 SO_{17}	16.4	X	49.31429	135.52783	189.71995	6.75120	0.1197285	0.26495720	2.4007793	21	11 30.6	19.6
142393 2002 SW_{17}	16.1	X	256.16853	72.47261	188.83762	13.69299	0.0570481	0.23255407	2.6189071	21	1 11.9	20.2
142394 2002 SK_{18}	15.7	X	359.60156	294.03034	101.58069	7.28962	0.1228099	0.26551073	2.3974414	21	12 23.9	18.1
142395 2002 ST_{18}	17.1	X	108.57062	254.19111	23.02326	1.51957	0.1718774	0.26860353	2.3790025	21	12 7.9	20.8
142396 2002 SW_{18}	16.8	X	317.58366	186.11669	217.11368	0.74288	0.1849969	0.26007643	2.4307226	21	10 12.2	18.8
142397 2002 SM_{19}	16.9	X	230.28705	165.64742	193.51459	0.68302	0.1834133	0.24362015	2.5389876	21	4 9.9	20.9
142398 2002 SP_{19}	15.8	X	194.47527	116.57625	179.89353	10.69860	0.1023023	0.22886315	2.6469890	21	—	—
142399 2002 SQ_{19}	16.1	X	148.48032	330.88358	68.20963	5.90190	0.2239076	0.23392668	2.6086524	21	3 24.8	20.3
142400 2002 SE_{20}	16.6	X	69.95598	144.10297	166.05323	1.35356	0.1785744	0.26707635	2.3880629	21	12 12.3	19.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
142401 2002 SH_{23}	16.1	X	56.73811	260.76278	16.50918	19.81656	0.2203257	0.26125137	2.4234292	21	10 18.0	19.3
142402 2002 SH_{24}	16.4	X	355.04492	228.86510	150.71526	6.50689	0.1229375	0.26361399	2.4089276	21	11 24.6	18.9
142403 2002 SQ_{24}	15.9	X	29.01450	138.08143	66.50051	3.25531	0.0604331	0.24255198	2.5464364	21	4 30.3	18.8
142404 2002 SX_{24}	16.0	X	333.48339	212.86499	207.36176	5.64959	0.1952011	0.26471768	2.4022272	21	12 18.6	17.9
142405 2002 SQ_{25}	15.3	X	311.88475	151.67667	51.72856	6.01675	0.1309707	0.23137620	2.6277876	21	—	—
142406 2002 SH_{26}	15.9	X	134.52301	315.13002	112.15930	4.52589	0.1693076	0.23561541	2.5961728	21	4 9.2	19.7
142407 2002 SA_{27}	16.3	X	68.81335	256.43305	59.09323	7.24044	0.1439957	0.26616430	2.3935152	21	12 13.2	19.6
142408 Trebur	16.2	X	18.64489	96.98718	179.17236	6.52014	0.0988181	0.25438723	2.4668298	21	7 27.9	18.9
142409 2002 SJ_{29}	17.0	X	84.50334	115.86966	199.62381	1.81056	0.2078379	0.26949042	2.3737802	21	—	—
142410 2002 SA_{30}	16.4	X	210.33506	252.07446	44.22760	1.59659	0.1145913	0.23307559	2.6149990	21	1 7.9	20.3
142411 2002 SC_{30}	16.3	X	36.71704	124.96306	177.74790	9.31792	0.0260296	0.25976900	2.4326399	21	9 27.5	19.2
142412 2002 SO_{30}	15.8	X	243.99161	277.89541	48.76721	9.48972	0.1465209	0.24130961	2.5551691	21	3 20.2	19.8
142413 2002 SR_{30}	16.5	X	7.90749	212.22489	136.74536	6.76460	0.1635987	0.26193360	2.4192193	21	11 9.1	19.0
142414 2002 SS_{31}	15.9	X	180.03086	327.86409	107.22452	6.55086	0.2449737	0.24272904	2.5451979	21	6 1.3	20.4
142415 2002 SD_{32}	16.0	X	209.00194	340.68339	21.77791	16.71156	0.1555189	0.24006616	2.5639846	21	3 29.9	20.1
142416 2002 SF_{32}	16.2	X	232.44683	294.97155	25.33624	11.09312	0.0828616	0.23791403	2.5794237	21	3 4.7	20.1
142417 2002 SX_{32}	15.8	X	119.02297	98.68624	308.24634	3.20448	0.1079032	0.23147309	2.6270543	21	2 14.1	19.4
142418 2002 SN_{33}	16.5	X	340.40554	167.38421	216.31330	5.71979	0.1444852	0.26074365	2.4265741	21	11 2.1	18.4
142419 2002 SC_{34}	16.2	X	307.04835	238.62453	175.14603	6.47397	0.1158182	0.26080158	2.4262147	21	10 15.1	18.5
142420 2002 SQ_{34}	15.7	X	158.34421	126.97775	157.80244	11.66121	0.1425091	0.22417045	2.6838020	21	—	—
142421 2002 SW_{35}	15.5	X	103.16342	55.35076	19.02271	13.03599	0.1390440	0.23172883	2.6251211	21	3 10.9	19.0
142422 2002 SY_{35}	16.0	X	127.55738	199.92278	187.97692	1.47873	0.1753854	0.22989904	2.6390317	21	2 9.9	19.7
142423 2002 SZ_{35}	16.2	X	180.07350	187.28945	194.49769	4.34354	0.2073507	0.23706585	2.5855725	21	3 26.2	20.6
142424 2002 SC_{36}	16.5	X	102.71895	69.86216	229.32998	1.49635	0.1347801	0.26846536	2.3798187	21	12 27.6	20.0
142425 2002 SQ_{37}	16.1	X	191.81441	291.14720	24.90949	11.51601	0.1923877	0.23147264	2.6270577	21	1 20.3	20.6
142426 2002 SH_{39}	16.2	X	140.60681	318.24990	72.46347	4.64137	0.1696470	0.23224804	2.6212072	21	3 1.2	20.1
142427 2002 SY_{39}	15.6	X	220.58621	7.61381	73.02712	7.32007	0.0997596	0.25167140	2.4845447	21	7 21.8	19.2
142428 2002 SH_{41}	16.6	X	337.66888	220.41217	139.69105	3.22405	0.2149451	0.25757414	2.4464398	21	9 19.9	18.2
142429 2002 SH_{43}	17.2	X	340.91828	9.34196	349.30835	2.17012	0.1822829	0.25844464	2.4409433	21	9 24.5	18.9
142430 2002 SA_{44}	16.4	X	318.21596	204.48500	132.67662	2.55935	0.1534154	0.25367301	2.4714578	21	7 3.2	19.0
142431 2002 SO_{44}	16.4	X	227.40960	256.79726	69.95907	2.49587	0.1618562	0.23795648	2.5791169	21	3 1.3	20.5
142432 2002 SD_{45}	16.6	X	14.26655	303.41765	48.58141	2.89653	0.2330951	0.26277819	2.4140328	21	12 3.3	18.9
142433 2002 SY_{45}	15.8	X	122.76416	262.98964	47.14163	9.36535	0.1908999	0.22106869	2.7088475	21	—	—
142434 2002 SE_{46}	16.7	X	176.28303	30.54730	29.02422	4.75964	0.2209766	0.23993624	2.5649101	21	5 8.2	21.0
142435 2002 SC_{47}	16.5	X	24.93891	111.74440	196.02912	5.27040	0.1980543	0.26065131	2.4271471	21	10 12.6	19.0
142436 2002 SK_{48}	16.1	X	143.15513	234.23243	159.53432	7.30167	0.1289381	0.23369282	2.6103924	21	2 28.7	19.8
142437 2002 SA_{49}	16.3	X	175.47133	267.61173	116.90824	2.72881	0.2149426	0.23691849	2.5866445	21	3 27.6	20.5
142438 2002 ST_{50}	15.2	X	183.83958	292.21637	53.96783	15.74351	0.1565050	0.23167674	2.6255146	21	2 20.9	19.7
142439 2002 SW_{53}	15.6	X	190.03179	345.40165	91.68172	12.63877	0.2197705	0.24349034	2.5398899	21	6 11.3	19.9
142440 2002 SM_{55}	16.4	X	218.62405	255.54091	64.29223	3.75568	0.1036071	0.23564906	2.5959256	21	2 14.4	20.4
142441 2002 SQ_{55}	16.0	X	335.08984	294.37979	57.03204	7.19098	0.1438000	0.25661672	2.4525211	21	9 4.9	18.3
142442 2002 SQ_{56}	16.5	X	341.46489	256.04456	88.59284	5.31588	0.2174715	0.25709485	2.4494794	21	9 5.3	18.2
142443 2002 SW_{56}	15.8	X	219.24482	280.51915	82.75860	6.71521	0.0875129	0.24041937	2.5614728	21	4 11.9	19.6
142444 2002 SL_{57}	16.4	X	20.33814	239.63677	86.71481	4.62020	0.2095492	0.26191424	2.4193385	21	11 4.5	18.8
142445 2002 SR_{58}	17.2	X	40.21449	95.65446	203.97781	1.06799	0.1828371	0.26203818	2.4185756	21	10 23.0	19.7
142446 2002 SV_{58}	16.7	X	73.44401	101.62361	177.31960	1.53524	0.1735838	0.26350163	2.4096123	21	11 5.5	20.0
142447 2002 ST_{59}	16.5	X	337.97715	222.74452	118.83471	7.93445	0.1158385	0.25718801	2.4488879	21	8 24.8	18.9
142448 2002 SS_{60}	16.3	X	15.42944	21.40804	49.13741	7.83453	0.0694287	0.27404631	2.3473981	21	—	—
142449 2002 TB	15.7	X	21.06017	256.22373	163.86489	6.53961	0.0522717	0.21866420	2.7286694	21	—	—
142450 2002 TV	16.4	X	355.92236	300.86058	141.82364	4.75239	0.1137106	0.27161050	2.3614115	21	—	—
142451 2002 TG_{1}	17.1	X	79.80277	273.05741	41.69332	6.03360	0.2059351	0.26943181	2.3741244	21	12 30.5	20.9
142452 2002 TP_{1}	16.2	X	182.14121	56.07842	337.46459	0.78939	0.1343637	0.23848448	2.5753088	21	4 8.8	20.1
142453 2002 TS_{1}	15.7	X	297.09953	258.73444	23.23458	13.87664	0.1191354	0.24111548	2.5565404	21	3 24.3	19.2
142454 2002 TW_{1}	16.3	X	169.58852	129.08086	320.29205	1.53747	0.1721308	0.24273295	2.5451706	21	6 7.9	20.3
142455 2002 TT_{2}	16.1	X	231.52073	141.54118	17.11633	6.83025	0.0480489	0.26440737	2.4041063	21	11 23.2	19.1
142456 2002 TQ_{3}	15.9	X	84.92123	255.29969	189.50348	9.83998	0.2605508	0.22868554	2.6483593	21	3 12.5	19.0
142457 2002 TX_{4}	15.6	X	316.67823	22.14959	48.84247	6.99717	0.1216779	0.26238080	2.4164697	21	11 25.7	17.8
142458 2002 TZ_{5}	16.1	X	268.62843	17.34303	59.08295	3.20048	0.1681325	0.25548761	2.4597416	21	9 5.7	19.0
142459 2002 TD_{6}	16.2	X	174.88205	290.46863	114.96366	4.47706	0.1802456	0.23818475	2.5774688	21	4 20.9	20.4
142460 2002 TJ_{6}	16.6	X	248.88494	217.08654	150.34588	2.97330	0.2163458	0.24615487	2.5215278	21	5 5.9	20.7
142461 2002 TD_{7}	16.1	X	221.05570	250.08806	81.15798	1.91661	0.0924404	0.23734670	2.5835325	21	3 2.2	19.9
142462 2002 TT_{7}	16.3	X	15.39087	354.27481	72.79984	3.90944	0.1489297	0.27153950	2.3618232	21	—	—
142463 2002 TH_{8}	16.3	X	185.43892	212.90355	204.09747	2.41796	0.1993879	0.24205449	2.5499243	21	5 13.1	20.6
142464 2002 TC_{9}	18.2	X	41.58249	29.27663	191.82764	16.27686	0.1547249	0.71912731	1.2338590	21	1 29.9	18.1
142465 2002 TJ_{9}	16.4	X	10.95100	261.45036	77.62952	4.05902	0.2071438	0.26221006	2.4175185	21	11 5.3	18.5
142466 2002 TO_{9}	16.1	X	108.66182	262.70116	178.33465	10.02044	0.1882930	0.23201611	2.6229537	21	3 29.9	19.5
142467 2002 TV_{9}	16.3	X	138.84202	231.50945	125.75029	2.55714	0.1380302	0.22842722	2.6503556	21	1 11.5	20.0
142468 2002 TU_{11}	16.1	X	36.10686	28.81430	13.22835	8.00164	0.1009039	0.27328783	2.3517393	21	—	—
142469 2002 TY_{11}	16.4	X	337.21464	288.56571	23.17165	6.99485	0.2555288	0.25521676	2.4614816	21	6 16.8	18.3
142470 2002 TE_{13}	14.6	X	158.24952	107.26971	254.17682	1.79167	0.2296196	0.12577650	3.9452062	21	2 24.4	21.1
142471 2002 TN_{13}	16.0	X	211.37549	124.59045	160.24678	2.93664	0.2248737	0.23078401	2.6322809	21	—	—
142472 2002 TH_{14}	16.1	X	244.55119	278.39025	44.13686	12.26194	0.3137109	0.24095801	2.5576541	21	3 8.5	20.9
142473 2002 TF_{15}	15.8	X	233.29265	262.91280	63.45827	9.57632	0.1237471	0.23806864	2.5783068	21	3 11.7	19.9
142474 2002 TF_{17}	16.6	X	78.58925	58.36632	260.23351	1.51624	0.1565628	0.26896268	2.3768843	21	12 29.6	20.1
142475 2002 TG_{17}	15.2	X	16.20039	224.75755	1.40525	14.66212	0.1232603	0.24587321	2.5234531	21	5 3.4	18.1
142476 2002 TW_{17}	16.3	X	47.46635	238.53827	75.27431	3.99100	0.0633001	0.26208495	2.4182878	21	11 3.7	19.2
142477 2002 TT_{19}	16.7	X	229.08742	142.46527	190.05977	4.84784	0.1726653	0.23970510	2.5665587	21	3 7.1	20.7
142478 2002 TB_{20}	16.7	X	200.42808	141.94431	222.43884	1.94717	0.1568380	0.23884593	2.5727099	21	3 20.9	20.8
142479 2002 TB_{21}	15.4	X	331.11119	355.31727	192.77703	14.96540	0.0818583	0.23123057	2.6288908	21	1 7.5	19.1
142480 2002 TP_{21}	16.3	X	151.73039	8.10106	348.46897	0.47105	0.1258876	0.23034419	2.6356306	21	1 23.2	20.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
142481 2002 TU_{22}	15.8	X	125.67116	338.42586	216.94061	1.36435	0.1211563	0.25429142	2.4674494	21	9 7.2	19.4
142482 2002 TX_{22}	16.4	X	285.10134	333.85126	198.01999	5.87272	0.0623344	0.27408163	2.3471964	21	—	—
142483 2002 TQ_{24}	15.9	X	124.00731	140.11628	203.41780	2.65785	0.0828259	0.22390707	2.6859062	21	—	—
142484 2002 TY_{24}	16.1	X	271.78702	138.38026	27.26568	7.76525	0.0833277	0.27072336	2.3665675	21	—	—
142485 2002 TJ_{25}	15.8	X	297.25208	104.16876	25.84835	6.35092	0.0669578	0.26879139	2.3778939	21	—	—
142486 2002 TK_{25}	16.0	X	295.42393	297.84794	15.40066	7.79287	0.1184873	0.24551299	2.5259208	21	4 27.3	19.2
142487 2002 TC_{27}	15.6	X	87.76810	132.30466	254.74720	0.73643	0.2027907	0.17179143	3.2048059	21	1 6.3	19.5
142488 2002 TK_{27}	16.9	X	265.37175	67.16521	348.04677	1.50126	0.2123182	0.25196560	2.4826103	21	7 25.3	20.1
142489 2002 TO_{28}	16.1	X	287.39008	38.09773	48.52872	3.38824	0.1567703	0.25936242	2.4351815	21	10 21.8	18.7
142490 2002 TU_{28}	16.2	X	36.22484	249.38279	51.70560	3.37771	0.1730423	0.25900829	2.4374008	21	10 17.8	18.9
142491 2002 TB_{29}	16.1	X	169.88933	319.52669	38.46074	3.87187	0.0900094	0.23198026	2.6232239	21	2 11.2	19.9
142492 2002 TC_{29}	15.8	X	222.83439	141.78626	189.04316	4.45923	0.1616950	0.23718383	2.5847150	21	2 28.0	19.9
142493 2002 TY_{29}	16.7	X	204.40122	147.78007	207.45540	4.61227	0.2400279	0.23771565	2.5808585	21	3 13.2	21.3
142494 2002 TG_{30}	15.6	X	99.96787	18.02360	16.78040	9.28156	0.1138966	0.22594621	2.6697218	21	1 8.3	19.1
142495 2002 TP_{30}	16.4	X	45.97614	185.31574	215.71460	1.79495	0.2063315	0.27120245	2.3637796	21	—	—
142496 2002 TK_{31}	15.9	X	207.78747	20.34682	55.48089	3.94648	0.0938638	0.24693825	2.5161921	21	6 29.9	19.5
142497 2002 TL_{31}	16.3	X	224.57432	307.55906	47.01042	4.29717	0.1993911	0.24039547	2.5616425	21	3 31.3	20.5
142498 2002 TY_{31}	16.3	X	307.92490	210.72959	198.07866	6.00336	0.0710323	0.25810836	2.4430630	21	10 11.6	19.1
142499 2002 TE_{32}	16.0	X	302.04079	34.95086	27.13406	6.94178	0.0992676	0.25867210	2.4395122	21	10 18.5	18.5
142500 2002 TM_{32}	16.3	X	214.66778	79.40787	17.17333	4.67588	0.0730262	0.30318244	2.1944887	21	8 10.9	19.1
142501 2002 TX_{32}	16.2	X	324.93802	299.03167	318.65927	1.97898	0.0274669	0.24220978	2.5488343	21	4 7.8	19.3
142502 2002 TA_{34}	16.5	X	241.91066	315.35142	60.63414	3.04814	0.1391438	0.24577287	2.5241399	21	5 15.7	20.4
142503 2002 TT_{34}	17.0	X	240.69835	305.60849	13.77949	3.05197	0.2186429	0.23982506	2.5657027	21	3 1.1	21.2
142504 2002 TS_{35}	15.6	X	150.30902	89.88151	206.89926	13.17726	0.1068971	0.22170747	2.7036418	21	—	—
142505 2002 TT_{35}	16.7	X	144.54246	164.83673	218.72589	2.98991	0.1294772	0.23175653	2.6249119	21	2 16.6	20.4
142506 2002 TC_{36}	15.7	X	96.23532	359.05455	38.23410	5.38880	0.1142034	0.22597521	2.6694934	21	1 5.2	19.1
142507 2002 TN_{36}	16.6	X	192.77889	190.17538	228.62851	3.02534	0.1618792	0.24227669	2.5483650	21	5 21.5	20.7
142508 2002 TP_{36}	15.5	X	137.96563	16.35314	37.25737	22.68694	0.0396844	0.23382488	2.6094095	21	3 21.2	19.4
142509 2002 TJ_{37}	16.4	X	226.78855	172.15475	197.05089	2.95998	0.1719227	0.24182696	2.5515235	21	4 20.2	20.4
142510 2002 TM_{37}	16.3	X	193.98814	247.64272	181.23789	3.23324	0.1437629	0.24343141	2.5402998	21	6 5.0	20.2
142511 2002 TE_{38}	16.2	X	188.21157	310.66523	38.30829	7.93833	0.2089772	0.23369259	2.6103942	21	2 25.9	20.7
142512 2002 TG_{39}	15.8	X	236.32951	284.08213	30.02008	7.80037	0.1970668	0.23548144	2.5971574	21	2 23.1	20.2
142513 2002 TK_{39}	15.0	X	127.17739	336.45217	85.25657	6.37613	0.1915801	0.23078262	2.6322915	21	3 29.6	18.9
142514 2002 TU_{39}	16.3	X	97.96305	165.72761	220.17111	8.94584	0.2835859	0.22284886	2.6944022	21	1 16.8	19.7
142515 2002 TZ_{39}	15.4	X	139.71387	316.32323	47.18405	12.37962	0.2095952	0.22604000	2.6689832	21	2 2.4	19.6
142516 2002 TD_{40}	15.5	X	239.43401	131.03123	246.06409	6.67938	0.1788830	0.24207554	2.5497765	21	5 10.9	19.5
142517 2002 TJ_{40}	15.2	X	146.98286	134.67609	229.39644	12.47223	0.1271084	0.22612839	2.6682877	21	1 24.1	19.4
142518 2002 TP_{40}	16.5	X	240.67610	307.90149	37.31310	13.10917	0.2962581	0.24218305	2.5490219	21	3 31.2	21.1
142519 2002 TJ_{41}	15.9	X	213.00887	168.52322	188.85313	12.39082	0.1686147	0.23791859	2.5793907	21	3 23.8	20.1
142520 2002 TO_{41}	16.3	X	267.51318	287.35807	49.89894	9.37338	0.2350981	0.24438478	2.5336889	21	4 15.1	20.3
142521 2002 TL_{42}	15.4	X	10.84621	43.74068	202.05717	12.26198	0.1103260	0.24467291	2.5316993	21	5 30.8	18.2
142522 2002 TM_{43}	16.2	X	164.89587	166.98583	242.92768	1.96465	0.0926385	0.23693996	2.5864882	21	4 9.3	19.9
142523 2002 TO_{43}	16.9	X	350.27737	37.19954	344.11509	0.65347	0.1949038	0.26087329	2.4257701	21	11 23.7	18.7
142524 2002 TT_{44}	16.4	X	262.80772	209.45871	143.32781	2.81424	0.1742593	0.24526227	2.5276419	21	5 5.3	20.2
142525 2002 TA_{45}	16.5	X	36.54769	138.35169	164.97176	3.25598	0.2647125	0.25994533	2.4315397	21	11 5.9	19.3
142526 2002 TD_{45}	15.4	X	172.14528	212.76540	204.85391	12.45749	0.1056518	0.23883184	2.5728111	21	4 29.2	19.2
142527 2002 TF_{45}	15.9	X	235.24762	158.66349	200.09687	8.12660	0.0078761	0.24000994	2.5643850	21	4 28.2	19.1
142528 2002 TL_{45}	15.8	X	166.42587	115.72687	2.09056	2.36911	0.2477560	0.24296756	2.5435319	21	7 13.5	20.3
142529 2002 TG_{47}	15.9	X	188.16768	8.14445	24.18323	12.17825	0.1924543	0.23807697	2.5782467	21	4 14.6	20.2
142530 2002 TL_{47}	15.3	X	89.38645	356.37620	32.58643	9.62056	0.0608005	0.22236205	2.6983334	21	—	—
142531 2002 TN_{47}	16.0	X	179.43600	145.44476	207.35018	3.86366	0.1303495	0.23179684	2.6246076	21	2 14.4	20.2
142532 2002 TU_{47}	15.4	X	194.80512	249.21696	82.00279	3.35858	0.0480777	0.23015635	2.6370644	21	2 2.4	19.2
142533 2002 TR_{48}	16.5	X	238.07646	151.40300	206.81467	5.11051	0.1592547	0.24136009	2.5548128	21	4 17.5	20.3
142534 2002 TY_{48}	15.1	X	96.38995	142.06233	221.98818	9.06033	0.1295243	0.22072948	2.7116220	21	—	—
142535 2002 TD_{49}	15.9	X	282.69777	292.73260	30.42244	15.20296	0.1681693	0.24361337	2.5390347	21	4 19.0	19.3
142536 2002 TE_{49}	15.2	X	133.87439	89.53583	222.00875	14.34904	0.0962511	0.21885534	2.7270805	21	—	—
142537 2002 TV_{50}	15.4	X	119.27243	203.16309	224.87898	14.25849	0.0599933	0.23116814	2.6293641	21	3 1.5	19.3
142538 2002 TX_{50}	15.4	X	220.00768	305.88457	36.35065	14.22162	0.2169135	0.23679229	2.5875635	21	3 17.5	20.0
142539 2002 TD_{51}	15.9	X	238.18190	305.08029	42.84809	18.76213	0.2406738	0.24077060	2.5589811	21	4 6.8	20.4
142540 2002 TN_{51}	15.5	X	192.21808	314.00336	44.38802	13.16773	0.2348519	0.23472476	2.6027360	21	3 15.6	20.2
142541 2002 TR_{51}	15.2	X	224.63768	277.11378	106.87656	5.49546	0.1679142	0.24105711	2.5569530	21	5 8.7	19.3
142542 2002 TS_{51}	16.0	X	197.95392	164.60300	217.77548	17.17470	0.2611159	0.23806451	2.5783366	21	4 9.4	20.6
142543 2002 TT_{51}	15.6	X	155.26969	58.31072	47.48347	3.22118	0.2348164	0.23887651	2.5724903	21	6 18.6	19.9
142544 2002 TB_{52}	15.6	X	71.70320	142.51421	210.89577	8.38176	0.1719582	0.21526178	2.7573471	21	—	—
142545 2002 TK_{52}	15.7	X	209.29430	233.26291	172.10950	4.52056	0.2173119	0.24083902	2.5584964	21	5 19.2	20.0
142546 2002 TS_{52}	15.2	X	82.14916	180.66286	223.82053	14.69018	0.1056651	0.22183425	2.7026117	21	—	—
142547 2002 TT_{52}	16.2	X	142.89017	184.88468	160.08002	0.83440	0.2609654	0.27861560	2.3216626	21	1 6.3	19.2
142548 2002 TG_{53}	16.4	X	27.35652	298.33483	112.59521	4.63117	0.2403227	0.26717201	2.3874929	21	—	—
142549 2002 TJ_{53}	15.1	X	260.22217	258.69862	49.04967	29.60903	0.0774573	0.23447421	2.6045898	21	4 2.7	19.3
142550 2002 TK_{53}	16.1	X	188.73116	175.75621	258.57374	3.43869	0.1911174	0.24059860	2.5602006	21	6 6.4	20.2
142551 2002 TV_{53}	15.7	X	210.02366	108.22049	260.61115	2.49593	0.2227382	0.23734176	2.5835683	21	4 2.9	20.2
142552 2002 TO_{54}	16.6	X	149.67649	197.22734	196.07162	4.45541	0.2308555	0.23253636	2.6190400	21	3 15.8	20.9
142553 2002 TX_{54}	16.0	X	73.33262	21.00795	41.56176	5.74755	0.1640071	0.22253757	2.6969144	21	1 10.5	18.9
142554 2002 TX_{56}	15.8	X	1.96036	31.41596	187.42207	14.92379	0.0575345	0.24281109	2.5446245	21	4 7.6	18.7
142555 2002 TB_{58}	16.2	X	122.94388	267.99981	219.30020	23.39700	0.5647720	0.23118746	2.6292176	21	7 5.2	21.9
142556 2002 TK_{58}	16.0	X	19.18531	289.27542	357.15815	11.47453	0.2229360	0.25611348	2.4557327	21	9 4.1	18.0
142557 2002 TS_{60}	15.1	X	113.85171	321.72951	148.63889	25.78699	0.3192749	0.23184013	2.6242809	21	6 2.0	19.9
142558 2002 TP_{61}	16.5	X	137.72986	107.00305	284.54317	6.42758	0.1150163	0.28531522	2.2851748	21	2 7.5	19.3
142559 2002 TO_{64}	15.0	X	20.00568	191.06713	0.77503	13.86925	0.1074903	0.23841089	2.5758387	21	3 26.9	17.9
142560 2002 TW_{67}	14.7	X	171.15679	144.49185	279.94055	21.69794	0.0638140	0.23988454	2.5652786	21	4 27.9	18.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
142561 2002 TX_{68}	18.1	X	311.92163	122.47608	150.15078	16.65334	0.2932901	0.45499848	1.6741566	21	1 27.9	20.2
142562 Graetz	16.4	X	177.89884	39.05700	27.36840	5.94574	0.0572122	0.23955182	2.5676534	21	5 13.3	20.1
142563 2002 TR_{69}	17.1	X	131.32304	192.24141	341.97851	20.49083	0.3434802	0.46071945	1.6602686	21	9 6.2	19.5
142564 2002 TR_{70}	15.8	X	195.93694	42.34014	309.55343	13.22318	0.1885327	0.23772263	2.5808080	21	2 26.9	20.2
142565 2002 TN_{75}	15.9	X	198.07996	2.30641	39.23792	9.65169	0.0477242	0.24452822	2.5326979	21	5 4.5	19.5
142566 2002 TH_{77}	16.1	X	239.89622	301.57541	349.93900	4.46647	0.2444083	0.23629368	2.5912022	21	1 26.4	20.5
142567 2002 TQ_{78}	15.7	X	152.22534	248.65452	191.35334	21.97606	0.1008167	0.23917863	2.5703236	21	5 7.6	19.7
142568 2002 TV_{78}	16.2	X	213.49540	217.65423	120.64651	4.80996	0.2289005	0.23708317	2.5854466	21	3 2.7	20.7
142569 2002 TA_{79}	15.6	X	116.31455	288.42556	158.41013	8.73601	0.2430344	0.23297993	2.6157147	21	4 24.2	19.6
142570 2002 TG_{79}	16.1	X	266.64630	242.75739	110.39320	6.11064	0.1992066	0.24629312	2.5205841	21	5 8.1	19.8
142571 2002 TA_{80}	15.9	X	129.64200	302.52550	115.09506	5.70405	0.2060617	0.23192784	2.6236191	21	3 27.9	19.9
142572 2002 TG_{81}	15.5	X	104.06013	252.25291	108.95806	6.78762	0.0653443	0.22214666	2.7000773	21	—	—
142573 2002 TC_{82}	16.0	X	148.95878	317.53232	30.01343	15.03192	0.1855808	0.22978187	2.6399287	21	1 19.7	20.3
142574 2002 TS_{82}	16.1	X	246.14747	148.04064	30.07628	7.67283	0.0931521	0.26950974	2.3736667	21	—	—
142575 2002 TP_{85}	15.3	X	28.14222	244.82172	147.67254	9.57799	0.1745979	0.21482852	2.7610531	21	—	—
142576 2002 TZ_{85}	16.1	X	201.64325	329.40119	300.01734	2.45560	0.1648120	0.27986116	2.3147689	21	—	—
142577 2002 TC_{86}	16.4	X	220.96035	37.65812	295.42103	2.30761	0.1537294	0.23821986	2.5772155	21	3 1.2	20.5
142578 2002 TB_{88}	16.8	X	161.01102	55.76586	18.19455	11.97592	0.1657752	0.24006821	2.5639700	21	5 8.1	20.9
142579 2002 TK_{88}	15.9	X	288.25337	349.66815	275.18881	5.45491	0.2874890	0.24069632	2.5595075	21	1 27.4	20.0
142580 2002 TM_{89}	15.5	X	23.02397	201.73146	237.80975	8.23166	0.1584669	0.22004317	2.7172574	21	—	—
142581 2002 TH_{90}	15.6	X	356.44115	127.33100	269.60612	3.32645	0.0718957	0.21156386	2.7893845	21	12 1.3	19.2
142582 2002 TE_{95}	16.1	X	55.25477	66.12588	356.68537	2.13958	0.0226266	0.22458123	2.6805284	21	—	—
142583 2002 TE_{96}	15.4	X	204.95594	300.75549	95.25897	4.01049	0.2851670	0.23747503	2.5826016	21	5 3.5	20.1
142584 2002 TF_{96}	15.1	X	129.13983	45.63848	98.07985	6.59317	0.2902429	0.23478382	2.6022995	21	7 18.3	19.5
142585 2002 TH_{96}	14.5	X	229.11570	82.42806	257.56599	23.37718	0.2620844	0.23366646	2.6105888	21	3 3.1	19.7
142586 2002 TL_{100}	16.3	X	87.05688	343.10990	319.62622	7.33585	0.1249043	0.26891099	2.3771888	21	12 15.5	19.8
142587 2002 TZ_{101}	16.3	X	107.90450	104.66987	296.27770	2.00074	0.0823573	0.22963364	2.6410647	21	1 19.9	19.6
142588 2002 TD_{102}	16.1	X	65.57023	177.75179	227.08911	6.23298	0.0929671	0.22374054	2.6872388	21	—	—
142589 2002 TY_{103}	16.4	X	149.42759	154.27663	148.66387	2.84178	0.0594857	0.22332618	2.6905617	21	—	—
142590 2002 TB_{105}	16.9	X	80.06078	242.94560	242.54975	3.02175	0.1276763	0.28866203	2.2674773	21	3 30.0	19.1
142591 2002 TG_{108}	14.8	X	320.93145	77.01966	342.79161	12.25230	0.1940775	0.20564354	2.8426671	21	10 25.1	17.9
142592 2002 TL_{108}	16.2	X	328.01672	34.72180	42.84430	4.92216	0.1196651	0.26840806	2.3801574	21	12 29.5	18.5
142593 2002 TK_{109}	16.6	X	327.73675	306.55484	110.11250	3.05463	0.1953519	0.26350118	2.4096151	21	11 29.3	18.4
142594 2002 TZ_{109}	15.2	X	101.34540	319.66486	33.11815	25.35028	0.2231243	0.27599338	2.3363448	21	—	—
142595 2002 TF_{111}	15.6	X	117.48392	95.93073	353.21010	12.73719	0.1310039	0.23571416	2.5954476	21	4 7.1	19.2
142596 2002 TG_{112}	16.5	X	286.83805	351.29921	86.06811	3.51148	0.2052137	0.25981827	2.4323324	21	9 30.6	19.0
142597 2002 TQ_{112}	16.6	X	44.28717	214.36551	56.16330	1.80166	0.1726957	0.25767983	2.4457709	21	9 16.6	19.2
142598 2002 TY_{112}	15.1	X	302.89188	312.58118	227.27558	14.34156	0.0747318	0.22651244	2.6652708	21	—	—
142599 2002 TY_{115}	16.0	X	292.00645	49.39362	241.63764	12.45144	0.1608846	0.24329352	2.5412595	21	3 14.2	19.9
142600 2002 TG_{116}	16.1	X	79.29846	6.50295	271.62492	6.22034	0.1257576	0.26243336	2.4161470	21	11 2.9	19.4
142601 2002 TF_{117}	15.5	X	209.00299	303.40834	336.23479	12.49147	0.1497416	0.22893460	2.6464382	21	—	—
142602 2002 TB_{118}	16.5	X	158.65399	194.39349	292.14762	5.40302	0.1093289	0.30018722	2.2090621	21	7 13.9	19.6
142603 2002 TR_{124}	15.4	X	231.34217	11.71513	10.09393	18.77742	0.1726176	0.24696100	2.5160376	21	5 3.2	19.7
142604 2002 TJ_{125}	16.6	X	321.79213	318.77687	54.06269	6.69173	0.1566504	0.25865199	2.4396386	21	9 9.6	18.9
142605 2002 TQ_{125}	16.0	X	167.19821	359.53646	273.84644	5.45704	0.1160800	0.27543944	2.3394762	21	—	—
142606 2002 TX_{125}	16.5	X	97.06243	290.79845	44.38889	7.41537	0.1652217	0.27440845	2.3453324	21	—	—
142607 2002 TC_{126}	15.2	X	292.10317	331.20598	242.74383	10.51654	0.1294516	0.23139310	2.6276596	21	—	—
142608 2002 TE_{126}	15.7	X	308.08929	292.67563	336.71925	14.09603	0.0789227	0.24195402	2.5506301	21	3 19.9	19.1
142609 2002 TJ_{131}	16.2	X	268.18702	356.35397	348.37462	10.42095	0.0672196	0.24596282	2.5228402	21	5 9.4	19.8
142610 2002 TU_{132}	17.0	X	277.93793	55.49808	327.91431	5.90791	0.1133356	0.25168082	2.4844827	21	7 13.8	20.2
142611 2002 TT_{135}	15.6	X	312.24252	289.41564	350.08010	14.41777	0.0904092	0.24171233	2.5523301	21	4 6.1	18.9
142612 2002 TQ_{136}	15.6	X	165.75527	56.55911	342.93471	12.98059	0.1708654	0.23670020	2.5882346	21	3 29.7	19.8
142613 2002 TH_{137}	15.3	X	103.60178	151.57504	346.17747	12.78709	0.2131839	0.23945807	2.5683236	21	6 7.0	19.3
142614 2002 TV_{138}	16.3	X	104.24260	204.74965	299.71727	6.34347	0.0142373	0.29512616	2.2342456	21	5 14.8	19.1
142615 2002 TW_{138}	15.6	X	165.72592	94.32103	344.55801	10.07422	0.0840853	0.24092901	2.5578593	21	5 14.2	19.6
142616 2002 TX_{143}	16.2	X	337.32694	270.68343	100.76094	7.32394	0.2232114	0.25816110	2.4427303	21	10 12.9	18.0
142617 2002 TE_{146}	16.4	X	169.49317	78.04532	5.84495	27.67583	0.1784825	0.24290760	2.5439505	21	5 21.2	21.1
142618 2002 TF_{146}	16.2	X	145.60364	54.75815	228.75687	5.02963	0.1982651	0.27449067	2.3448640	21	—	—
142619 2002 TR_{146}	16.1	X	166.15893	76.70906	275.48212	3.24253	0.1205898	0.28450089	2.2895333	21	1 22.7	19.2
142620 2002 TL_{154}	16.9	X	299.86268	151.34019	228.24214	6.58363	0.2294470	0.25610194	2.4558064	21	7 19.4	19.6
142621 2002 TU_{157}	15.8	X	234.71940	331.92628	64.36770	11.89519	0.1843150	0.24645248	2.5194975	21	5 30.5	19.7
142622 2002 TK_{158}	15.4	X	186.22025	254.34166	142.21038	14.20745	0.1120796	0.23946939	2.5682426	21	4 21.6	19.6
142623 2002 TT_{160}	15.7	X	218.32738	201.39903	88.50069	14.31683	0.2449083	0.23242092	2.6199072	21	1 8.5	20.3
142624 2002 TU_{160}	15.6	X	246.93926	179.79026	92.02386	13.41980	0.0834907	0.23096874	2.6308772	21	1 16.1	19.5
142625 2002 TO_{165}	15.3	X	219.78905	295.43639	113.79139	9.26646	0.2115421	0.24502026	2.5293061	21	6 2.5	19.6
142626 2002 TQ_{168}	15.5	X	114.29553	188.85376	244.33114	11.13545	0.1838392	0.23397103	2.6083227	21	3 19.9	19.3
142627 2002 TZ_{169}	15.8	X	130.49632	174.95017	310.22590	13.24067	0.1011743	0.24411408	2.5355616	21	6 8.9	19.6
142628 2002 TL_{171}	15.4	X	197.32799	172.09136	264.82016	8.92233	0.2090285	0.24513776	2.5284978	21	6 16.8	19.5
142629 2002 TU_{173}	15.9	X	125.79441	238.96073	139.89194	6.67009	0.1003384	0.22946840	2.6423324	21	1 17.2	19.4
142630 2002 TV_{175}	15.6	X	40.94154	217.46757	216.03126	11.06644	0.0674659	0.22311656	2.6922467	21	—	—
142631 2002 TX_{175}	14.8	X	76.18082	296.10566	249.33179	14.22686	0.0341956	0.24509686	2.5287790	21	6 10.1	17.9
142632 2002 TU_{177}	15.1	X	118.02242	154.78279	257.16246	20.89524	0.0529627	0.23135522	2.6279465	21	2 2.3	19.1
142633 2002 TC_{178}	16.2	X	215.88417	81.84212	298.84730	10.22109	0.2872380	0.24180823	2.5516552	21	4 16.4	21.0
142634 2002 TL_{179}	15.2	X	242.28846	57.53000	276.08130	14.40896	0.0741577	0.23753520	2.5821654	21	3 20.0	19.3
142635 2002 TY_{179}	15.0	X	107.46808	35.25280	350.54698	14.83595	0.1392766	0.22440464	2.6819344	21	1 13.6	18.7
142636 2002 TS_{181}	15.8	X	158.34931	340.57419	7.65787	3.94293	0.1162557	0.22780368	2.6551897	21	1 20.5	19.7
142637 2002 TL_{183}	16.3	X	94.39645	76.50934	250.12001	1.81107	0.1876438	0.27268550	2.3552012	21	—	—
142638 2002 TN_{184}	16.4	X	35.38561	302.76713	334.26694	6.34636	0.1831923	0.25759937	2.4462801	21	9 11.0	19.0
142639 2002 TO_{186}	15.9	X	277.19011	156.47990	238.76807	5.77072	0.0941660	0.25361363	2.4718436	21	7 29.7	19.1
142640 2002 TK_{187}	15.5	X	8.95830	72.01379	334.26469	4.96352	0.0914710	0.21586978	2.7521673	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
142641 2002 TU_{187}	16.1	X	256.37858	7.88987	323.56014	4.97524	0.1812892	0.24334186	2.5409230	21	3 28.7	20.0
142642 2002 TX_{187}	15.8	X	95.51231	134.17603	251.64184	5.19080	0.0806618	0.22547553	2.6734359	21	—	—
142643 2002 TS_{188}	16.0	X	135.45573	59.90479	9.02687	7.59648	0.1780760	0.23363176	2.6108472	21	4 10.1	19.9
142644 2002 TT_{188}	16.6	X	146.71081	135.38765	232.88759	6.70023	0.2159713	0.22932632	2.6434237	21	2 8.1	20.8
142645 2002 TX_{188}	15.5	X	201.45787	196.41771	224.25197	14.62488	0.1493667	0.24234269	2.5479023	21	6 1.4	19.6
142646 2002 TG_{190}	15.8	X	165.13451	108.69650	257.60491	3.82457	0.0982105	0.22935900	2.6431726	21	2 14.2	19.8
142647 2002 TH_{190}	15.9	X	357.93747	117.88998	44.18016	12.33207	0.1333942	0.22404951	2.6847677	21	1 10.8	19.2
142648 2002 TC_{191}	15.0	X	333.04385	146.66757	307.27295	12.22402	0.0802055	0.21387893	2.7692195	21	—	—
142649 2002 TA_{192}	16.1	X	199.11861	48.49771	338.22640	11.59580	0.1822808	0.23959510	2.5673442	21	4 11.9	20.5
142650 2002 TH_{192}	15.9	X	165.24660	93.75421	328.68745	11.63957	0.2447172	0.23745892	2.5827184	21	4 29.3	20.6
142651 2002 TR_{192}	15.2	X	208.79646	18.09731	267.80663	13.02108	0.1677633	0.22765000	2.6563846	21	—	—
142652 2002 TY_{196}	16.0	X	213.11958	82.39128	213.76507	6.27219	0.1082856	0.23096124	2.6309342	21	1 9.3	20.1
142653 2002 TM_{197}	16.2	X	126.50061	53.03682	5.06112	9.33202	0.0259355	0.23468183	2.6030534	21	2 28.6	19.6
142654 2002 TP_{200}	16.0	X	19.50565	240.29043	231.78129	6.17130	0.0565952	0.27918393	2.3185107	21	—	—
142655 2002 TB_{203}	16.1	X	53.34391	317.06480	72.36516	7.29034	0.1209436	0.27260278	2.3556777	21	—	—
142656 2002 TF_{203}	16.1	X	205.08976	254.01763	99.81850	5.76410	0.1435722	0.23812714	2.5778845	21	3 15.7	20.3
142657 2002 TJ_{203}	16.6	X	308.18074	246.07823	141.80203	6.14884	0.1169726	0.25664137	2.4523640	21	9 7.4	19.1
142658 2002 TY_{203}	15.4	X	268.94187	127.66427	175.31431	14.68663	0.1300103	0.24054200	2.5606022	21	3 12.8	19.1
142659 2002 TH_{206}	16.2	X	249.12067	322.91282	353.51791	3.26020	0.2451985	0.24005553	2.5640603	21	3 2.4	20.5
142660 2002 TC_{207}	16.4	X	210.84857	98.53792	268.13022	2.33383	0.2103072	0.23936531	2.5689870	21	3 31.9	20.8
142661 2002 TU_{207}	15.6	X	118.21542	27.68647	24.42367	19.40439	0.1677611	0.22978229	2.6399256	21	3 10.2	19.5
142662 2002 TN_{208}	16.5	X	325.85698	298.41139	17.89911	7.57169	0.3288114	0.25185441	2.4833409	21	5 12.3	19.0
142663 2002 TD_{209}	15.9	X	159.58926	285.15064	62.72810	11.88824	0.2113469	0.23094287	2.6310736	21	1 31.8	20.3
142664 2002 TK_{210}	16.2	X	137.11205	114.51284	246.85925	1.62261	0.0964863	0.22750477	2.6575150	21	1 9.2	19.8
142665 2002 TK_{212}	15.5	X	142.96289	276.53608	146.31033	16.12408	0.1634668	0.23734910	2.5835150	21	4 14.5	19.7
142666 2002 TR_{213}	16.7	X	267.20604	247.86157	65.59680	1.93984	0.1546550	0.24220019	2.5489015	21	3 22.7	20.4
142667 2002 TB_{214}	16.3	X	30.51057	98.63740	176.35836	3.65297	0.0720767	0.25330378	2.4738590	21	8 13.4	19.2
142668 2002 TG_{214}	16.5	X	35.69249	282.60394	21.02308	8.81940	0.2555386	0.26371949	2.4082851	21	11 1.6	19.4
142669 2002 TU_{218}	16.0	X	105.66882	134.44953	271.98186	5.72164	0.1241603	0.28246868	2.3005015	21	1 16.9	18.3
142670 2002 TN_{219}	15.3	X	6.54050	240.75941	332.56296	9.48918	0.1181083	0.24034159	2.5620254	21	3 29.7	18.1
142671 2002 TV_{219}	15.3	X	128.24756	128.72801	230.21806	13.40267	0.1095614	0.22650247	2.6653490	21	—	—
142672 2002 TW_{219}	15.2	X	188.35508	271.99276	350.00094	12.61315	0.0089933	0.22034740	2.7147558	21	—	—
142673 2002 TY_{219}	16.4	X	346.77501	177.53147	234.84003	8.74694	0.1103530	0.26716368	2.3875424	21	12 24.4	18.9
142674 2002 TB_{221}	15.6	X	246.15317	142.20760	310.52506	10.21865	0.2153536	0.25403533	2.4691073	21	8 20.0	19.2
142675 2002 TN_{222}	15.6	X	71.46414	134.25531	206.57602	5.33476	0.0706925	0.21536646	2.7564535	21	12 29.3	19.6
142676 2002 TU_{223}	16.6	X	74.87119	113.12038	244.91126	1.12535	0.2306513	0.27099956	2.3649593	21	—	—
142677 2002 TA_{224}	15.7	X	131.07817	197.84875	267.79253	3.48879	0.2471603	0.23687154	2.5869863	21	5 29.4	19.8
142678 2002 TC_{224}	15.9	X	296.46849	31.04193	283.11993	2.65728	0.1079286	0.24414406	2.5353540	21	5 2.5	19.2
142679 2002 TT_{225}	15.8	X	192.17455	136.58406	190.83108	7.96954	0.2080487	0.23078495	2.6322738	21	1 29.6	20.3
142680 2002 TF_{227}	15.8	X	145.63017	281.84375	120.82633	2.99865	0.0853947	0.23269375	2.6178589	21	3 11.0	19.4
142681 2002 TM_{228}	16.2	X	100.10736	328.15431	62.36812	2.73176	0.1016242	0.22577303	2.6710869	21	—	—
142682 2002 TR_{228}	16.0	X	249.36554	136.58306	178.57569	14.63767	0.1290456	0.23886624	2.5725641	21	3 7.2	19.8
142683 2002 TC_{232}	15.2	X	247.39095	73.88089	256.45652	12.80314	0.0879509	0.24128783	2.5553228	21	3 22.0	19.2
142684 2002 TN_{232}	15.3	X	160.74584	69.27998	337.18116	14.72120	0.1211486	0.23740724	2.5830932	21	3 28.5	19.3
142685 2002 TL_{233}	15.8	X	72.30381	51.65609	325.87871	13.50995	0.1060479	0.22070083	2.7118567	21	—	—
142686 2002 TJ_{235}	15.6	X	261.60173	78.77226	263.72517	10.40873	0.1175320	0.24417459	2.5351427	21	4 22.8	19.4
142687 2002 TX_{235}	15.7	X	153.00184	185.95498	256.95470	12.50785	0.2649140	0.23824497	2.5770344	21	5 20.3	20.2
142688 2002 TU_{238}	15.4	X	49.84691	357.06059	46.85062	13.41661	0.0854930	0.21672453	2.7449262	21	—	—
142689 2002 TL_{240}	15.3	X	159.68107	202.01209	202.91990	13.59910	0.2459708	0.23364512	2.6107477	21	4 8.6	19.6
142690 2002 TR_{241}	16.0	X	256.31789	244.73440	115.01381	12.23338	0.1487254	0.24419836	2.5349782	21	5 13.6	19.9
142691 2002 TT_{241}	15.8	X	177.13218	280.65992	172.55071	15.39041	0.1620452	0.24240319	2.5474783	21	6 20.3	20.2
142692 2002 TY_{242}	16.6	X	182.47727	114.73239	242.38539	3.06263	0.2089163	0.23461509	2.6035470	21	2 25.8	20.9
142693 2002 TZ_{242}	16.0	X	174.49912	241.90267	218.71358	8.65721	0.0906891	0.24556133	2.5255893	21	6 25.1	19.8
142694 2002 TW_{243}	16.9	X	192.01532	64.20207	359.88064	2.59605	0.1296786	0.24330739	2.5411630	21	5 26.9	20.7
142695 2002 TU_{245}	16.5	X	120.85592	231.30305	155.41961	3.65744	0.1129055	0.22827489	2.6515346	21	1 23.0	20.1
142696 2002 TM_{246}	16.2	X	38.60719	257.64575	34.36727	9.20690	0.2166005	0.25867028	2.4395236	21	10 16.4	18.9
142697 2002 TT_{246}	16.9	X	234.87680	248.56127	192.50968	3.45439	0.1386239	0.25070713	2.4909113	21	8 1.6	20.6
142698 2002 TO_{248}	16.7	X	34.98925	243.83222	63.44542	5.57224	0.1934392	0.26071290	2.4267649	21	10 28.9	19.4
142699 2002 TU_{251}	16.6	X	32.96173	251.86756	43.81970	6.53694	0.1979346	0.25958038	2.4338182	21	10 10.4	19.2
142700 2002 TK_{254}	15.7	X	33.87291	340.35201	122.19505	3.51661	0.1709260	0.22358428	2.6884907	21	—	—
142701 2002 TL_{254}	15.4	X	240.12483	267.49689	41.54889	14.69704	0.0759579	0.23526186	2.5987731	21	3 2.8	19.5
142702 2002 TY_{254}	16.3	X	211.08332	217.22025	149.51812	4.64977	0.1784615	0.23893683	2.5720574	21	4 4.4	20.6
142703 2002 TJ_{256}	16.1	X	82.46809	178.01632	225.84973	1.23208	0.0834370	0.22437910	2.6821380	21	—	—
142704 2002 TM_{256}	16.4	X	334.91287	131.00041	191.01042	5.70098	0.2327655	0.25310817	2.4751334	21	7 2.3	18.5
142705 2002 TE_{257}	15.6	X	71.23007	163.65394	204.66792	4.63941	0.0803300	0.21786289	2.7353561	21	—	—
142706 2002 TB_{258}	16.0	X	149.96100	317.99525	106.79805	3.93767	0.1601779	0.23580478	2.5947826	21	4 20.5	20.0
142707 2002 TV_{259}	16.7	X	183.78659	38.59442	30.42791	3.83076	0.1690126	0.24159443	2.5531605	21	5 25.5	20.9
142708 2002 TH_{260}	16.6	X	197.92174	174.48442	216.37990	3.75112	0.2743399	0.23952467	2.5678474	21	4 20.9	21.2
142709 2002 TS_{260}	15.7	X	136.10478	352.46840	60.02188	14.84038	0.2338722	0.23086283	2.6316818	21	4 4.3	20.1
142710 2002 TO_{261}	15.9	X	247.17719	248.26535	24.05910	11.76467	0.1870188	0.23333684	2.6130467	21	1 13.5	20.4
142711 2002 TE_{263}	16.4	X	187.51771	208.86799	232.64467	3.96011	0.0989250	0.24521192	2.5279879	21	6 14.8	20.3
142712 2002 TQ_{264}	16.6	X	219.63564	153.95932	244.22285	1.38446	0.0802950	0.24435598	2.5338879	21	5 24.9	20.3
142713 2002 TW_{264}	15.4	X	299.12245	87.21613	237.66536	8.32991	0.0707874	0.24400936	2.5362870	21	5 28.6	18.4
142714 2002 TQ_{265}	15.6	X	205.91934	356.61268	49.52562	2.85600	0.1210113	0.23986684	2.5654048	21	5 18.6	19.4
142715 2002 TJ_{266}	14.6	X	204.01368	115.81525	259.07956	12.35866	0.2056279	0.23526320	2.5987633	21	4 1.8	19.3
142716 2002 TU_{266}	15.3	X	205.51747	130.67215	265.83312	2.62212	0.2615737	0.23770039	2.5809690	21	5 2.8	19.9
142717 2002 TC_{270}	15.9	X	83.82853	49.41255	266.89901	4.79440	0.0614938	0.21479856	2.7613098	21	12 12.7	19.6
142718 2002 TF_{275}	15.9	X	235.51868	298.04497	14.53375	11.80271	0.2550736	0.23745888	2.5827187	21	2 19.7	20.5
142719 2002 TZ_{276}	15.8	X	153.70304	131.65217	357.16768	6.53354	0.1905870	0.24379976	2.5377405	21	7 16.2	20.0
142720 2002 TJ_{277}	16.6	X	103.54756	6.36982	333.86501	4.69734	0.1679639	0.22082560	2.7108351	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
142721 2002 TJ_{279}	15.4	X	170.36971	338.84754	8.23112	15.31221	0.0449081	0.22967909	2.6407163	21	1 29.8	19.4
142722 2002 TO_{279}	15.7	X	67.63870	73.52940	8.74871	22.10755	0.0600432	0.22706655	2.6609330	21	1 23.4	19.5
142723 2002 TW_{279}	15.6	X	95.05132	116.71978	358.60931	12.03978	0.2668327	0.23243288	2.6198173	21	5 3.2	19.4
142724 2002 TY_{279}	15.6	X	93.76190	154.70351	253.46166	9.14142	0.0947179	0.22643706	2.6658623	21	1 10.8	19.0
142725 2002 TC_{281}	16.4	X	136.16600	158.67033	245.39252	8.05763	0.1563302	0.23191401	2.6237235	21	3 5.4	20.5
142726 2002 TH_{281}	15.6	X	227.01532	13.60462	355.10192	12.41751	0.1704163	0.24152129	2.5536758	21	4 15.4	19.9
142727 2002 TN_{283}	15.2	X	175.20094	327.55347	6.68689	15.41730	0.1319029	0.22882702	2.6472676	21	1 26.2	19.5
142728 2002 TQ_{283}	16.0	X	82.82409	74.54358	350.17655	3.92850	0.2489743	0.22550200	2.6732266	21	2 10.9	18.9
142729 2002 TD_{284}	15.1	X	158.54775	185.58597	238.27653	11.37669	0.1295039	0.23697319	2.5862464	21	4 21.9	19.1
142730 2002 TN_{284}	15.5	X	173.76310	153.15728	248.28255	6.87184	0.1946533	0.23664504	2.5886367	21	4 11.5	19.9
142731 2002 TA_{285}	15.2	X	110.74982	46.76110	7.84114	14.64403	0.0874174	0.22856009	2.6493284	21	2 17.4	18.9
142732 2002 TZ_{285}	15.8	X	145.45456	124.01518	235.12193	13.21722	0.1203728	0.22704310	2.6611162	21	1 15.9	19.9
142733 2002 TO_{286}	15.7	X	214.52492	136.32359	226.31671	14.44132	0.0958007	0.23756912	2.5819196	21	3 30.4	19.7
142734 2002 TS_{286}	15.4	X	204.91618	153.08843	225.18895	21.52143	0.0855547	0.23800236	2.5787854	21	4 10.0	19.4
142735 2002 TV_{286}	15.5	X	150.87008	321.85749	14.69321	14.00828	0.2625049	0.22690652	2.6621840	21	1 16.0	20.1
142736 2002 TJ_{289}	15.2	X	251.69419	25.15218	355.41389	7.44573	0.1643916	0.24505980	2.5290340	21	5 27.9	19.0
142737 2002 TB_{290}	15.7	X	309.07055	148.03104	277.46284	6.41820	0.1781549	0.25733531	2.4479533	21	10 25.5	17.9
142738 2002 TD_{290}	14.9	X	355.50190	105.79735	22.28927	8.34353	0.1617121	0.21793642	2.7347408	21	—	—
142739 2002 TK_{290}	14.9	X	140.84228	105.64631	243.88728	25.95553	0.1931179	0.22434114	2.6824406	21	1 5.5	19.3
142740 2002 TC_{291}	15.6	X	350.14032	48.56341	352.84301	3.43149	0.1010873	0.20907585	2.8114701	21	11 28.6	19.0
142741 2002 TE_{291}	16.3	X	263.38565	327.01334	354.42335	4.16601	0.2860993	0.24175165	2.5520534	21	3 16.4	20.7
142742 2002 TZ_{291}	15.5	X	123.97580	53.78008	27.59719	12.97490	0.1597482	0.23172912	2.6251189	21	4 13.4	19.3
142743 2002 TD_{292}	16.2	X	175.00432	125.26281	323.33986	4.87345	0.1343956	0.24256243	2.5463632	21	6 11.0	20.2
142744 2002 TL_{293}	15.8	X	10.80682	171.70115	253.80653	6.30973	0.1352802	0.26633140	2.3925139	21	—	—
142745 2002 TQ_{293}	14.8	X	109.24808	334.75136	42.86814	15.55854	0.2198159	0.22204558	2.7008966	21	1 17.2	18.7
142746 2002 TS_{294}	15.3	X	165.38073	103.98121	3.33738	12.84445	0.1701592	0.24142030	2.5543880	21	6 27.9	19.7
142747 2002 TJ_{295}	15.7	X	270.59447	339.87437	338.59706	12.94943	0.1943824	0.24124712	2.5556103	21	3 23.5	19.8
142748 2002 TW_{295}	15.3	X	101.28001	161.13997	334.78856	12.51277	0.2093045	0.23509346	2.6000140	21	6 1.1	19.3
142749 2002 TS_{296}	16.2	X	174.94524	67.34019	42.46596	15.80934	0.2211466	0.24401959	2.5362161	21	7 10.9	20.8
142750 2002 TZ_{297}	16.4	X	275.22322	148.72191	286.12419	3.53111	0.1758192	0.25714584	2.4491556	21	9 8.3	19.3
142751 2002 TG_{300}	17.1	X	69.81057	185.58830	123.17341	4.16620	0.1303155	0.26513740	2.3996914	21	12 4.9	20.3
142752 Boroski	16.0	X	99.93525	50.41927	56.52234	15.01050	0.0442743	0.23651556	2.5895814	21	4 6.0	19.6
142753 Briegel	15.7	X	256.72059	127.27656	159.53128	15.01058	0.1055201	0.23355754	2.6114003	21	2 10.1	19.7
142754 Brunner	16.6	X	151.68211	196.71536	216.54402	6.56830	0.1712431	0.23869538	2.5737916	21	4 5.5	20.7
142755 Castander	16.4	X	348.93021	217.57570	314.09908	5.54225	0.1362605	0.28656681	2.2785162	21	—	—
142756 Chiu	16.4	X	109.57994	243.69349	338.20838	5.35275	0.1410132	0.26035412	2.4289939	21	9 25.9	19.9
142757 Collinge	16.3	X	290.60171	266.62926	28.45539	14.72944	0.1131570	0.24337742	2.5406754	21	4 2.5	19.7
142758 Connolly	16.5	X	246.70106	279.48767	213.93464	0.77351	0.1248827	0.26336681	2.4104346	21	10 30.2	19.5
142759 Covey	16.5	X	196.36978	290.74005	223.34638	0.48793	0.1148079	0.25941830	2.4348319	21	9 28.3	20.0
142760 Csabai	16.4	X	292.41255	88.09612	170.29494	5.27704	0.1972194	0.23973414	2.5663515	21	2 2.0	20.3
142761 2002 UU_{2}	15.4	X	102.99640	17.80031	69.37045	34.56478	0.1943138	0.23193188	2.6235887	21	4 21.7	19.7
142762 2002 UF_{3}	15.8	X	50.02174	278.88149	133.39390	13.30120	0.1506311	0.21974981	2.7196752	21	—	—
142763 2002 UU_{3}	16.1	X	77.18031	234.59090	52.15227	14.46505	0.2194319	0.26309549	2.4120915	21	11 22.8	19.6
142764 2002 UV_{4}	15.9	X	136.33407	230.96290	191.53481	31.43857	0.2090229	0.23274295	2.6174900	21	4 7.6	19.9
142765 2002 UX_{4}	15.3	X	19.28511	254.45072	174.02837	24.61824	0.1873108	0.21398118	2.7683373	21	—	—
142766 2002 UA_{5}	15.8	X	335.56207	286.66166	152.47568	9.64177	0.1466249	0.21233420	2.7826340	21	12 28.6	19.0
142767 2002 UU_{5}	16.2	X	306.41042	222.17044	83.50241	8.34808	0.0485337	0.24484589	2.5305067	21	5 17.1	19.3
142768 2002 UA_{6}	15.2	X	322.94996	317.38809	167.11029	10.29198	0.1362505	0.21747361	2.7386193	21	—	—
142769 2002 UB_{6}	15.3	X	296.79287	320.85546	161.03219	9.28911	0.1341950	0.21339791	2.7733794	21	12 18.3	18.6
142770 2002 UM_{6}	15.3	X	68.00502	298.01049	71.37559	11.11054	0.1075117	0.21865825	2.7287190	21	—	—
142771 2002 UQ_{6}	14.6	X	235.62140	185.70181	154.45174	11.45228	0.1390761	0.18759489	3.0221919	21	4 1.5	19.4
142772 2002 UU_{7}	15.7	X	175.14428	298.50033	68.35856	16.21833	0.2099986	0.23411657	2.6072416	21	3 13.7	20.4
142773 2002 UZ_{7}	15.6	X	20.51477	349.90050	125.42803	12.32510	0.1203308	0.22364495	2.6880045	21	—	—
142774 2002 UD_{8}	15.5	X	165.67262	281.28180	114.64785	10.63480	0.0823710	0.23512482	2.5997828	21	3 28.5	19.5
142775 2002 UP_{8}	15.9	X	94.83343	300.98618	150.48011	13.38006	0.2222853	0.22981019	2.6397119	21	4 3.3	19.4
142776 2002 UQ_{8}	15.7	X	85.61619	291.34430	114.33896	14.34382	0.0867268	0.22428897	2.6828564	21	—	—
142777 2002 UX_{8}	15.3	X	70.76787	290.55767	113.72388	13.06574	0.0839033	0.22130328	2.7069329	21	—	—
142778 2002 UJ_{9}	15.5	X	62.68333	352.62741	114.50269	16.51455	0.2006325	0.22629964	2.6669414	21	3 1.6	18.4
142779 2002 UQ_{9}	16.0	X	9.99495	339.50678	58.35196	7.37351	0.1390603	0.26348526	2.4097121	21	—	—
142780 2002 UN_{10}	15.5	X	154.38672	274.76334	133.03653	6.81458	0.0870741	0.23425265	2.6062318	21	3 29.1	19.3
142781 2002 UM_{11}	16.1	X	266.21893	229.03485	228.97923	41.01814	0.3874179	0.36158343	1.9513284	21	8 18.2	19.8
142782 2002 UK_{12}	15.7	X	211.51969	267.18174	189.99652	14.61416	0.3021937	0.24522026	2.5279306	21	7 17.6	20.5
142783 2002 UQ_{13}	15.5	X	62.79990	196.05446	141.96152	10.22736	0.1655337	0.21339897	2.7733701	21	12 28.1	19.7
142784 2002 UZ_{13}	14.4	X	142.67171	99.76208	265.23316	27.52566	0.0832924	0.22592030	2.6699259	21	1 12.4	18.4
142785 2002 UG_{14}	15.6	X	234.08445	263.12105	81.66503	12.19095	0.3425269	0.24081561	2.5586623	21	3 26.8	20.6
142786 2002 UB_{15}	16.4	X	182.90370	258.76413	167.97924	11.71369	0.2971130	0.24035082	2.5619598	21	5 26.1	21.3
142787 2002 UD_{15}	14.9	X	331.54611	273.04741	149.20249	12.85426	0.1045869	0.20989009	2.8041942	21	11 30.1	18.5
142788 2002 UD_{16}	15.5	X	212.23532	78.88721	193.85586	13.23704	0.1464100	0.22633612	2.6666549	21	—	—
142789 2002 UM_{16}	15.4	X	180.55251	82.03731	289.52863	12.14705	0.1517785	0.23333120	2.6130889	21	3 6.4	19.9
142790 2002 UX_{16}	15.6	X	47.46156	289.44332	144.34402	9.73381	0.1564610	0.22048250	2.7136466	21	—	—
142791 2002 UQ_{19}	16.1	X	133.45548	307.33786	123.74896	4.94105	0.2273269	0.23273609	2.6175414	21	4 19.1	20.2
142792 2002 UR_{19}	15.6	X	76.01163	357.44563	141.01620	5.54927	0.2052877	0.23144704	2.6272514	21	5 5.7	18.8
142793 2002 UW_{19}	14.8	X	6.57295	319.16655	72.85541	14.84207	0.2303621	0.21010706	2.8022634	21	12 29.9	18.0
142794 2002 UZ_{19}	16.5	X	35.15078	1.56346	329.29428	1.96358	0.2011314	0.26374816	2.4081106	21	11 30.3	19.5
142795 2002 UG_{20}	15.3	X	102.46980	288.49997	23.81073	7.10165	0.0956962	0.21555833	2.7548175	21	—	—
142796 2002 UH_{20}	15.6	X	141.67727	65.84140	233.50487	4.10417	0.1000639	0.21942640	2.7223469	21	—	—
142797 2002 UP_{20}	15.9	X	150.41032	1.22208	45.25343	2.85633	0.0627933	0.23378758	2.6096870	21	3 18.9	19.4
142798 2002 UT_{20}	15.7	X	174.03035	287.17970	35.70854	12.21527	0.0886028	0.22616509	2.6679990	21	1 3.7	19.8
142799 2002 UA_{23}	15.6	X	184.60994	318.08193	79.26231	7.66438	0.0716467	0.23605475	2.5929504	21	4 18.1	19.4
142800 2002 UT_{23}	16.4	X	60.76595	49.59894	22.57055	3.01925	0.0992589	0.22445725	2.6815154	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
142801 2002 US_{26}	16.0	X	94.71307	302.87163	112.84336	6.15331	0.1470705	0.22702173	2.6612833	21	1 31.6	19.2
142802 2002 UG_{27}	15.8	X	255.48160	322.75960	327.10697	2.44298	0.1443004	0.23506862	2.6001972	21	2 10.7	19.8
142803 2002 UM_{27}	16.3	X	169.37916	36.99697	245.19837	4.46777	0.2908704	0.27635590	2.3343012	21	—	—
142804 2002 UT_{27}	15.7	X	220.83887	187.39221	45.95072	3.34559	0.0044178	0.21936345	2.7228677	21	—	—
142805 2002 UT_{28}	15.6	X	122.97981	110.66448	27.39076	32.96710	0.1863678	0.23930757	2.5694002	21	6 22.1	20.2
142806 2002 UJ_{29}	14.5	X	231.96945	122.89687	265.26763	13.06635	0.1675941	0.24229286	2.5482516	21	5 18.1	18.5
142807 2002 UN_{31}	15.7	X	246.22134	50.02502	236.16946	13.95682	0.0635935	0.23290827	2.6162512	21	1 28.2	19.8
142808 2002 UQ_{33}	16.6	X	259.70885	176.56812	267.84171	2.39611	0.1561916	0.25316784	2.4747444	21	9 3.1	19.7
142809 2002 US_{34}	15.9	X	77.03534	274.94787	56.09427	4.21416	0.0969892	0.21376205	2.7702289	21	12 26.9	19.9
142810 2002 UB_{36}	15.4	X	191.86724	285.18891	79.65035	15.77650	0.1530604	0.23485809	2.6017508	21	3 23.5	19.9
142811 2002 UX_{36}	15.7	X	162.37581	285.30174	145.54781	2.10759	0.1719935	0.23699871	2.5860608	21	5 9.7	19.8
142812 2002 UL_{37}	16.3	X	183.97008	319.75339	34.38737	2.41970	0.0881830	0.23280766	2.6170049	21	2 20.6	20.1
142813 2002 UP_{38}	16.5	X	154.06087	18.67987	52.64482	5.41510	0.2743654	0.23607062	2.5928342	21	5 8.2	20.9
142814 2002 UR_{38}	16.9	X	11.63441	343.27621	93.67151	2.47226	0.1458848	0.26934611	2.3746280	21	—	—
142815 2002 US_{39}	15.8	X	157.62413	343.69411	37.86531	3.32532	0.1080925	0.23135538	2.6279453	21	2 28.8	19.6
142816 2002 UQ_{40}	16.2	X	23.52616	277.47658	159.24797	8.32659	0.1669680	0.21783563	2.7355843	21	—	—
142817 2002 UV_{45}	15.7	X	203.48731	233.41504	95.84688	10.10901	0.1379722	0.23273544	2.6175463	21	2 12.8	19.9
142818 2002 UT_{46}	15.9	X	264.68073	174.20845	111.89017	6.03259	0.2739394	0.23893567	2.5720657	21	2 5.7	20.2
142819 2002 UX_{46}	15.8	X	72.77888	58.57631	59.05032	14.15958	0.0237537	0.23373758	2.6100592	21	3 12.8	19.5
142820 2002 UU_{49}	15.4	X	110.24527	22.36032	3.49463	7.93752	0.3353440	0.22405017	2.6847625	21	2 13.3	19.3
142821 2002 UB_{50}	15.1	X	82.47273	249.16309	122.30298	14.57469	0.2069203	0.21882538	2.7273294	21	—	—
142822 Czarapata	16.6	X	215.87102	121.24241	69.13071	2.57300	0.1263261	0.26784009	2.3835211	21	12 6.2	19.7
142823 2002 VY_{3}	15.2	X	282.08086	0.14727	254.70876	7.95930	0.1485405	0.23137116	2.6278257	21	1 23.6	19.3
142824 2002 VE_{6}	15.6	X	127.25946	92.39277	201.68113	3.92788	0.0845203	0.21536111	2.7564991	21	—	—
142825 2002 VV_{6}	15.7	X	116.82212	297.44518	30.73989	5.18754	0.1775797	0.21944828	2.7221659	21	—	—
142826 2002 VF_{9}	15.8	X	231.10834	88.12953	242.25246	13.27067	0.0905512	0.23612395	2.5924439	21	3 4.8	20.0
142827 2002 VK_{10}	15.6	X	159.75495	10.74762	275.55060	5.90565	0.1150337	0.21892340	2.7265152	21	—	—
142828 2002 VW_{10}	15.7	X	148.75492	282.46426	39.17173	10.07492	0.0601751	0.22130071	2.7069538	21	—	—
142829 2002 VZ_{10}	16.1	X	293.05378	84.10723	235.98987	10.58192	0.2340073	0.24520862	2.5280106	21	4 15.6	19.8
142830 2002 VG_{11}	15.2	X	346.88437	27.75392	257.44205	6.83020	0.1192026	0.24549073	2.5260735	21	6 12.6	17.8
142831 2002 VT_{11}	16.0	X	321.83182	240.76280	250.95911	5.54511	0.0697205	0.26873319	2.3782373	21	—	—
142832 2002 VZ_{11}	15.6	X	80.68087	302.27358	65.79889	7.10134	0.0546419	0.21914004	2.7247179	21	—	—
142833 2002 VC_{12}	15.9	X	270.33244	325.98363	4.24173	4.36871	0.1699818	0.24270222	2.5453854	21	4 12.9	19.7
142834 2002 VD_{12}	15.5	X	68.42497	26.86467	329.09634	3.11346	0.0872474	0.21519487	2.7579186	21	—	—
142835 2002 VK_{12}	15.7	X	9.08942	168.89622	292.52124	3.99518	0.1222013	0.22013477	2.7165036	21	—	—
142836 2002 VN_{12}	14.9	X	337.21069	217.31072	23.94825	12.68921	0.1381809	0.23814982	2.5777208	21	3 24.3	17.9
142837 2002 VH_{13}	16.0	X	87.58391	176.58110	306.04794	2.90666	0.0965407	0.23351176	2.6117416	21	4 9.4	19.3
142838 2002 VZ_{15}	15.6	X	347.57635	187.57341	287.65978	3.15279	0.0676542	0.21915356	2.7246059	21	—	—
142839 2002 VQ_{16}	15.1	X	203.53769	266.31532	65.90495	15.07841	0.0998670	0.23254746	2.6189567	21	2 19.9	19.4
142840 2002 VV_{16}	16.0	X	120.30083	187.91006	293.14356	3.73905	0.1026452	0.23870674	2.5737099	21	5 21.9	19.6
142841 2002 VY_{17}	15.5	X	86.85430	278.57457	186.23042	1.69413	0.2667691	0.22499190	2.6772656	21	4 14.3	18.9
142842 2002 VG_{18}	16.9	X	6.62410	268.41798	212.33246	2.10009	0.1680703	0.27381908	2.3486966	21	—	—
142843 2002 VW_{18}	16.6	X	171.82914	323.27292	26.39341	5.64915	0.1524425	0.23122193	2.6289563	21	2 8.5	20.7
142844 2002 VQ_{21}	15.3	X	243.29631	267.03854	232.26601	22.11824	0.1132923	0.25996561	2.4314133	21	11 3.0	18.4
142845 2002 VZ_{21}	15.4	X	270.99631	265.76949	267.80502	5.04103	0.0511949	0.21661998	2.7458093	21	—	—
142846 2002 VD_{22}	15.5	X	232.70708	37.01078	239.54079	6.97187	0.0779859	0.22766369	2.6562781	21	1 6.3	19.4
142847 2002 VB_{23}	16.1	X	175.30134	289.52122	37.30681	6.42623	0.2135351	0.22807411	2.6530904	21	1 19.3	20.5
142848 2002 VD_{23}	16.2	X	140.15863	48.80381	33.49644	3.38273	0.1211664	0.23557945	2.5964369	21	4 27.0	19.8
142849 2002 VF_{23}	15.6	X	145.55869	144.31364	243.56419	3.26883	0.1367923	0.23002963	2.6380328	21	2 23.7	19.6
142850 2002 VX_{23}	16.9	X	344.59900	65.23971	20.96379	2.09635	0.2329213	0.26500202	2.4005086	21	—	—
142851 2002 VE_{24}	16.1	X	198.97925	277.56450	55.94154	4.80108	0.2629864	0.23268976	2.6178888	21	2 15.9	20.8
142852 2002 VM_{24}	16.3	X	191.87885	346.15359	89.60098	1.25408	0.1596259	0.24176752	2.5519417	21	6 11.3	20.4
142853 2002 VS_{24}	15.7	X	45.91299	326.34433	58.77741	2.66168	0.1330514	0.21457209	2.7632525	21	—	—
142854 2002 VA_{25}	15.6	X	224.34328	45.88078	274.73087	7.81349	0.0765373	0.23383380	2.6093431	21	2 17.1	19.5
142855 2002 VC_{26}	15.9	X	41.44231	95.65633	284.06963	3.53325	0.0860481	0.21336884	2.7736312	21	—	—
142856 2002 VS_{26}	15.7	X	252.53250	154.53108	211.95674	3.45617	0.1127003	0.24270784	2.5453461	21	5 18.2	19.2
142857 2002 VF_{27}	15.8	X	359.72668	193.76400	248.57410	3.68100	0.0888391	0.21475735	2.7616631	21	—	—
142858 2002 VV_{27}	15.5	X	152.92800	331.62399	51.66068	4.85194	0.1435900	0.23011788	2.6373583	21	3 2.4	19.5
142859 2002 VB_{28}	15.5	X	49.83582	4.30212	86.21898	3.43931	0.0480729	0.22316283	2.6918745	21	—	—
142860 2002 VJ_{28}	16.3	X	234.07680	120.27961	225.63425	0.87802	0.1959207	0.23889302	2.5723718	21	3 27.4	20.3
142861 2002 VU_{28}	16.6	X	47.86262	222.01001	159.18456	1.32337	0.2001103	0.26848337	2.3797123	21	—	—
142862 2002 VW_{28}	16.8	X	209.79975	181.91675	191.10663	1.71347	0.2421335	0.23910117	2.5708787	21	4 8.6	21.2
142863 2002 VC_{29}	16.2	X	347.87314	26.92071	60.18005	4.08172	0.1141599	0.26702230	2.3883851	21	—	—
142864 2002 VR_{29}	15.8	X	230.48674	301.03258	85.73272	14.46724	0.2178798	0.24266380	2.5456540	21	5 16.2	20.1
142865 2002 VY_{29}	15.6	X	99.70714	231.65021	234.53755	13.74887	0.1068568	0.23198716	2.6231719	21	4 3.8	19.3
142866 2002 VV_{30}	15.9	X	91.98497	124.93953	261.09334	3.81633	0.1177834	0.22092646	2.7100100	21	—	—
142867 2002 VW_{31}	15.6	X	287.95917	62.02106	73.09748	4.77455	0.0412733	0.21109579	2.7935064	21	12 29.6	19.3
142868 2002 VB_{32}	15.9	X	222.84085	278.94019	64.05203	4.32238	0.1843962	0.23568394	2.5956695	21	3 17.4	20.1
142869 2002 VG_{32}	16.3	X	130.26072	174.56440	248.18168	0.74745	0.1304675	0.23080697	2.6321064	21	3 23.0	20.0
142870 2002 VQ_{32}	16.4	X	322.58623	4.95063	103.35127	2.35097	0.1348752	0.26450041	2.4035426	21	—	—
142871 2002 VL_{33}	15.6	X	78.85969	332.48680	53.70154	5.53321	0.1201934	0.21846104	2.7303609	21	—	—
142872 2002 VZ_{33}	15.5	X	125.14999	235.91126	222.96357	6.93374	0.1517920	0.23353940	2.6115356	21	5 5.6	19.4
142873 2002 VJ_{34}	16.4	X	238.66905	145.87687	220.91284	4.30208	0.2552985	0.24140190	2.5545178	21	4 22.5	20.8
142874 2002 VU_{34}	15.5	X	71.29303	338.50936	77.20154	2.57689	0.1588578	0.22026893	2.7154005	21	—	—
142875 2002 VW_{34}	15.8	X	198.35516	13.20292	66.49693	13.58554	0.2527950	0.24127573	2.5554083	21	6 19.5	20.3
142876 2002 VO_{35}	15.6	X	136.28171	78.44223	251.48424	3.92936	0.1641468	0.22095037	2.7098145	21	—	—
142877 2002 VH_{36}	15.1	X	243.31099	148.82362	233.49238	4.61779	0.2293156	0.24216283	2.5491637	21	5 17.8	19.1
142878 2002 VQ_{37}	15.8	X	207.67303	238.85946	175.69013	11.55464	0.1345048	0.24248746	2.5468881	21	6 1.5	20.0
142879 2002 VX_{38}	16.1	X	79.68907	313.16479	97.13802	7.43053	0.0954408	0.27603542	2.3361076	21	—	—
142880 2002 VS_{39}	15.8	X	157.38952	184.55432	175.80884	8.48204	0.1881554	0.22904963	2.6455521	21	2 7.1	20.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
142881 2002 VH_{40}	15.7	X	217.67317	234.37724	167.77264	9.25090	0.1229048	0.24188658	2.5511042	21	5 27.4	19.7
142882 2002 VB_{41}	15.1	X	196.18035	357.49886	55.54520	15.23594	0.1599205	0.24399982	2.5363531	21	5 17.1	19.0
142883 2002 VQ_{41}	15.6	X	108.55006	98.59748	220.65074	4.67409	0.0661292	0.21533934	2.7566849	21	—	—
142884 2002 VC_{42}	16.2	X	46.38803	103.69774	104.25700	6.87052	0.0369330	0.29436195	2.2381109	21	5 28.0	18.6
142885 2002 VT_{42}	16.2	X	351.50745	101.06238	89.29365	5.59452	0.0544831	0.28328402	2.2960852	21	2 3.9	18.9
142886 2002 VG_{43}	15.9	X	101.41004	16.36213	84.94249	7.28923	0.1166572	0.23287151	2.6165265	21	4 8.6	19.4
142887 2002 VH_{43}	16.2	X	204.49757	247.04122	159.08396	5.93968	0.0980085	0.24151701	2.5537060	21	5 19.4	20.0
142888 2002 VO_{43}	15.5	X	96.29798	285.27320	78.30285	7.77438	0.0955326	0.22019541	2.7160048	21	—	—
142889 2002 VC_{45}	15.9	X	24.28505	79.35607	26.12003	5.10209	0.1111208	0.22198812	2.7013627	21	—	—
142890 2002 VK_{45}	16.2	X	119.64115	206.76275	174.55902	5.98859	0.1140700	0.22523655	2.6753266	21	1 14.9	19.9
142891 2002 VT_{45}	16.1	X	157.07154	60.62577	57.15563	13.20961	0.0390352	0.24406738	2.5358850	21	6 25.5	19.7
142892 2002 VZ_{45}	17.2	X	352.46964	301.21401	160.66701	1.04605	0.1590876	0.26857500	2.3791710	21	—	—
142893 2002 VA_{46}	16.8	X	86.93287	143.91239	249.47480	0.94469	0.2118471	0.22216892	2.6998969	21	—	—
142894 2002 VN_{46}	16.0	X	233.29329	265.01116	60.49780	13.72328	0.1044764	0.23524694	2.5988830	21	3 14.4	20.2
142895 2002 VQ_{46}	15.7	X	216.81336	217.40835	92.29469	6.70826	0.1817029	0.23169208	2.6253987	21	1 31.3	20.1
142896 2002 VG_{47}	15.7	X	56.72866	73.50275	62.94737	22.24682	0.0501179	0.23072803	2.6327067	21	3 24.5	19.5
142897 2002 VT_{47}	15.7	X	67.01365	189.28769	223.71201	7.63703	0.0683866	0.21973135	2.7198275	21	—	—
142898 2002 VV_{47}	15.4	X	137.18702	348.33562	72.22055	14.69887	0.1641731	0.23127257	2.6285725	21	4 8.8	19.6
142899 2002 VA_{48}	15.7	X	108.39182	3.03574	80.83724	7.86554	0.1985923	0.22920548	2.6443528	21	4 7.4	19.5
142900 2002 VR_{48}	15.5	X	176.11543	300.58944	71.94115	17.54167	0.3228465	0.23308226	2.6149490	21	3 26.6	20.6
142901 2002 VG_{49}	15.6	X	20.90741	266.84692	113.07625	4.64891	0.1046397	0.21014769	2.8019022	21	12 18.7	19.2
142902 2002 VK_{49}	15.9	X	184.81254	286.11354	70.68088	12.56751	0.2727241	0.23324614	2.6137241	21	3 9.4	20.8
142903 2002 VY_{49}	16.6	X	269.11088	256.60363	120.95712	4.49796	0.1974293	0.24756392	2.5119509	21	6 10.6	20.2
142904 2002 VD_{50}	15.7	X	115.04958	333.72072	138.07028	4.45120	0.1355712	0.23523131	2.5989981	21	5 10.2	19.3
142905 2002 VJ_{50}	16.2	X	34.84420	313.84822	120.80778	3.01497	0.1955220	0.27189240	2.3597790	21	—	—
142906 2002 VE_{51}	16.6	X	139.52927	210.72203	190.54231	8.32188	0.1670351	0.23174530	2.6249967	21	3 9.3	20.5
142907 2002 VA_{52}	15.5	X	318.33263	204.83066	64.81449	13.48849	0.0601733	0.23992628	2.5649811	21	4 17.2	18.9
142908 2002 VC_{52}	15.6	X	48.29811	24.92587	109.88054	5.39003	0.1614239	0.22972523	2.6403627	21	3 5.4	18.3
142909 2002 VL_{52}	15.6	X	177.03609	139.27098	192.62312	13.70131	0.1115527	0.22890085	2.6466983	21	1 15.8	19.9
142910 2002 VC_{53}	15.6	X	82.16274	328.20125	66.03085	3.00377	0.0850622	0.22147565	2.7055281	21	—	—
142911 2002 VJ_{53}	15.8	X	275.74670	121.19569	309.37646	6.01791	0.0947387	0.25446489	2.4663279	21	9 15.3	18.8
142912 2002 VL_{54}	15.7	X	50.80275	198.82672	263.46571	12.82535	0.2068932	0.22493599	2.6777093	21	1 20.9	18.3
142913 2002 VN_{55}	16.1	X	205.86991	253.38833	206.17268	3.30078	0.1509395	0.24634256	2.5202468	21	7 25.0	19.9
142914 2002 VW_{55}	14.6	X	275.50672	18.47239	281.02147	11.96098	0.2647802	0.23761996	2.5815514	21	2 24.7	19.1
142915 2002 VD_{56}	15.5	X	277.66108	351.50573	162.64561	5.96779	0.0332295	0.21457615	2.7632176	21	—	—
142916 2002 VH_{56}	16.3	X	156.67370	220.95000	133.30566	5.33297	0.1203847	0.22804229	2.6533373	21	1 25.2	20.3
142917 2002 VP_{56}	15.4	X	3.90468	264.33640	142.44048	5.89448	0.0664207	0.21148815	2.7900503	21	12 24.4	18.9
142918 2002 VT_{56}	16.1	X	137.88330	257.04525	208.51872	4.12640	0.2152886	0.23476191	2.6024614	21	6 2.6	20.3
142919 2002 VA_{57}	15.7	X	118.93960	277.90436	181.67382	3.11572	0.1451846	0.23221445	2.6214599	21	4 29.4	19.3
142920 2002 VG_{57}	15.6	X	86.01559	42.12347	53.52440	13.81723	0.1202114	0.23054304	2.6341148	21	3 15.6	19.1
142921 2002 VQ_{57}	15.9	X	253.36974	155.93194	151.13050	3.44441	0.2603599	0.23910501	2.5708511	21	2 21.6	20.3
142922 2002 VC_{58}	15.6	X	311.32293	2.38413	140.66846	4.85904	0.0432680	0.21837102	2.7311112	21	—	—
142923 2002 VF_{58}	15.4	X	347.14454	0.79028	97.55482	7.99098	0.1759376	0.21352588	2.7722712	21	—	—
142924 2002 VR_{58}	16.1	X	138.27309	5.30954	79.70033	8.51083	0.2431935	0.23384476	2.6092616	21	5 11.7	20.4
142925 2002 VU_{58}	15.6	X	254.00685	211.21500	112.07626	4.25403	0.1692872	0.23665890	2.5885356	21	3 22.0	19.6
142926 2002 VD_{60}	15.7	X	317.88099	78.52798	209.21743	13.69861	0.0825202	0.24146817	2.5540504	21	5 3.2	18.8
142927 2002 VF_{60}	16.7	X	216.61937	176.85189	155.44258	3.76069	0.2069273	0.28801195	2.2708880	21	2 19.2	20.4
142928 2002 VK_{60}	15.2	X	181.22880	309.58342	58.39113	13.78690	0.0521401	0.23242529	2.6198744	21	3 11.7	19.2
142929 2002 VS_{61}	15.8	X	276.59634	350.14730	322.60982	2.30725	0.1123876	0.24022278	2.5628701	21	4 4.6	19.5
142930 2002 VR_{63}	15.7	X	22.65052	90.04313	280.31202	5.59619	0.0678314	0.20931249	2.8093507	21	12 3.3	19.3
142931 2002 VT_{63}	15.5	X	110.02370	131.92292	282.74022	4.36375	0.0713717	0.22775584	2.6555615	21	2 7.0	18.9
142932 2002 VH_{64}	16.1	X	133.34492	217.17479	13.33553	2.20638	0.1028974	0.30966029	2.1637764	21	11 5.9	19.0
142933 2002 VR_{65}	16.2	X	115.74220	294.16226	82.45039	4.52852	0.1102273	0.22532631	2.6746160	21	1 4.6	19.7
142934 2002 VX_{65}	15.9	X	159.88043	2.78100	19.46866	15.31845	0.0839164	0.23077702	2.6323341	21	3 6.7	19.9
142935 2002 VX_{66}	16.3	X	18.56493	140.49399	92.64863	3.14352	0.0611109	0.29396279	2.2401365	21	5 20.6	18.4
142936 2002 VZ_{66}	16.5	X	229.59122	244.48431	134.46322	1.71133	0.1190243	0.24297954	2.5434483	21	5 8.7	20.2
142937 2002 VC_{68}	16.0	X	118.33224	236.92572	261.46702	6.44477	0.1354949	0.23860115	2.5744692	21	6 16.8	19.5
142938 2002 VN_{68}	15.8	X	137.56148	138.60198	341.03400	8.99910	0.1485222	0.24024583	2.5627061	21	6 14.0	19.9
142939 2002 VP_{68}	15.7	X	162.55865	103.09670	262.91407	11.65993	0.1983347	0.23143369	2.6273524	21	2 15.4	20.1
142940 2002 VX_{68}	14.7	X	50.35494	295.92459	93.71349	14.67570	0.1836790	0.21617648	2.7495635	21	—	—
142941 2002 VC_{69}	16.1	X	174.05950	203.74072	270.79180	6.82351	0.0919776	0.24503361	2.5292142	21	7 13.2	19.9
142942 2002 VG_{69}	16.1	X	156.83263	25.45238	8.86471	4.28911	0.1420716	0.23252376	2.6191346	21	3 17.7	19.9
142943 2002 VK_{69}	15.6	X	149.82572	3.92433	10.72564	4.85606	0.1203250	0.22862217	2.6488487	21	2 13.7	19.5
142944 2002 VT_{69}	15.0	X	116.41019	14.67693	23.91012	12.00898	0.2975535	0.28389419	2.2927941	21	2 25.0	18.1
142945 2002 VB_{70}	16.5	X	169.11709	347.55498	90.62647	6.38722	0.0652539	0.29440692	2.2378830	21	5 18.2	19.3
142946 2002 VD_{70}	16.3	X	56.01440	229.14748	84.34722	4.09283	0.1998296	0.26322047	2.4113279	21	12 3.5	19.4
142947 2002 VK_{72}	15.8	X	59.17279	356.53216	96.15569	3.82822	0.0407318	0.22595037	2.6696890	21	1 15.5	19.3
142948 2002 VQ_{72}	16.4	X	172.80247	345.86816	125.00003	3.91380	0.0915247	0.24439209	2.5336383	21	7 7.4	20.0
142949 2002 VB_{73}	15.9	X	96.34578	280.34423	210.60196	10.63277	0.1027083	0.23564019	2.5959907	21	5 6.1	19.2
142950 2002 VS_{73}	15.6	X	145.29880	95.73735	217.31977	10.93336	0.1666790	0.22093064	2.7099758	21	—	—
142951 2002 VU_{73}	15.9	X	139.30129	357.40647	54.86287	15.47382	0.0479393	0.23433071	2.6056530	21	3 18.8	19.8
142952 2002 VF_{75}	16.5	X	172.18342	247.64585	173.79187	3.35154	0.1528883	0.23792466	2.5793469	21	5 6.3	20.5
142953 2002 VQ_{75}	15.3	X	269.43349	74.34832	106.92919	7.50337	0.1452029	0.21504113	2.7592329	21	—	—
142954 2002 VD_{77}	16.3	X	50.82187	131.53136	98.19353	4.08576	0.1099646	0.29731463	2.2232682	21	7 18.6	18.3
142955 2002 VQ_{77}	15.7	X	219.70022	281.44027	96.36628	5.82734	0.1587202	0.23998502	2.5645625	21	4 27.2	19.8
142956 2002 VT_{77}	15.8	X	169.21590	251.45081	132.24631	4.89539	0.1303142	0.23288860	2.6163985	21	3 17.1	19.8
142957 2002 VX_{77}	16.1	X	214.22645	202.05000	128.86436	5.91148	0.2014478	0.23384670	2.6092472	21	2 22.7	20.5
142958 2002 VA_{78}	15.9	X	342.89484	230.83327	179.83484	6.21258	0.1730160	0.20834357	2.8180540	21	12 4.6	18.8
142959 2002 VP_{78}	15.9	X	140.08021	21.41995	87.71131	6.81648	0.1275068	0.23811453	2.5779755	21	6 2.1	19.7
142960 2002 VJ_{79}	16.1	X	181.57640	192.24674	172.78609	4.26024	0.2198866	0.23310403	2.6147863	21	3 8.3	20.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
142961 2002 VQ_{79}	15.0	X	314.00773	112.72492	69.35954	16.83119	0.2133387	0.21951734	2.7215950	21	—	—
142962 2002 VY_{79}	15.9	X	114.67277	167.68118	206.55775	11.16094	0.1897782	0.22374552	2.6871989	21	1 9.9	19.7
142963 2002 VH_{80}	15.5	X	242.83301	275.01899	84.86705	5.74455	0.1569399	0.24067344	2.5596698	21	4 26.7	19.4
142964 2002 VO_{80}	15.4	X	54.54351	278.45788	94.38106	7.57060	0.1965273	0.26767777	2.3844845	21	—	—
142965 2002 VA_{81}	15.1	X	314.56840	55.33217	92.06785	12.86783	0.1095287	0.21544772	2.7557604	21	—	—
142966 2002 VE_{81}	15.7	X	158.03251	306.88499	80.89869	12.79933	0.1623046	0.23112546	2.6296878	21	3 19.1	20.1
142967 2002 VT_{81}	16.5	X	165.13318	203.17482	198.54141	3.92961	0.2600697	0.23410839	2.6073023	21	4 10.1	20.9
142968 2002 VX_{81}	16.4	X	100.82957	276.67640	97.46504	5.78533	0.1953415	0.27399851	2.3476711	21	—	—
142969 2002 VF_{82}	16.3	X	209.80904	232.39288	145.60674	4.84134	0.2295769	0.23780700	2.5801976	21	4 16.7	20.7
142970 2002 VG_{82}	15.5	X	62.80038	290.56556	104.96476	7.96444	0.2216871	0.21752340	2.7382015	21	—	—
142971 2002 VQ_{82}	15.0	X	130.47435	174.63048	226.74292	9.93535	0.1703162	0.22735979	2.6586445	21	2 25.9	19.0
142972 2002 VY_{82}	16.1	X	205.45757	196.68766	167.74217	4.06451	0.1499857	0.23596512	2.5936071	21	3 27.1	20.1
142973 2002 VK_{83}	16.1	X	13.86845	316.97817	87.62259	6.85190	0.1451006	0.26455541	2.4032094	21	—	—
142974 2002 VO_{83}	16.3	X	78.76571	325.84044	99.92157	7.55700	0.0924273	0.27646388	2.3336933	21	—	—
142975 2002 VM_{84}	14.8	X	53.35257	186.99020	239.03565	9.65447	0.2832760	0.21767100	2.7369635	21	—	—
142976 2002 VN_{84}	15.4	X	9.39905	337.85282	116.50136	10.99374	0.2488303	0.21327761	2.7744222	21	—	—
142977 2002 VT_{84}	15.8	X	179.98294	265.04836	191.55202	5.17408	0.2736725	0.23921148	2.5700883	21	6 26.9	20.4
142978 2002 VU_{84}	16.1	X	162.76191	260.74284	152.18079	5.25790	0.2390325	0.23292860	2.6160990	21	4 22.6	20.6
142979 2002 VX_{84}	15.1	X	121.39349	131.74456	254.92593	11.14098	0.2670410	0.22257122	2.6966426	21	2 10.1	19.3
142980 2002 VZ_{84}	16.3	X	175.16836	56.36154	196.99343	6.33203	0.0828426	0.26854371	2.3793558	21	—	—
142981 2002 VK_{85}	15.2	X	69.77455	226.91955	309.77797	12.46903	0.2338553	0.23779494	2.5802848	21	6 22.5	18.5
142982 2002 VD_{87}	15.6	X	74.29908	12.62968	342.36468	5.13814	0.0872129	0.21478650	2.7614132	21	—	—
142983 2002 VO_{87}	16.3	X	149.97728	54.09068	43.22373	15.75353	0.0995241	0.23875499	2.5733632	21	5 23.1	20.2
142984 2002 VA_{88}	16.2	X	99.24378	127.46041	272.33119	3.14885	0.1838708	0.27712572	2.3299762	21	1 8.7	18.3
142985 2002 VF_{88}	16.2	X	324.76526	175.48377	273.11196	3.54735	0.1117402	0.26314227	2.4118056	21	—	—
142986 2002 VP_{89}	15.2	X	181.79231	33.59718	42.99382	31.12015	0.2243184	0.23780491	2.5802127	21	5 26.8	19.9
142987 2002 VZ_{89}	15.6	X	229.08047	92.39811	196.44695	4.28870	0.1262651	0.22915079	2.6447734	21	1 16.3	19.7
142988 2002 VD_{90}	15.7	X	305.62456	248.32964	163.19936	2.22076	0.0583250	0.20348667	2.8627191	21	10 5.6	19.2
142989 2002 VK_{90}	16.2	X	69.45545	249.00176	99.40153	11.85321	0.3260165	0.26916882	2.3756706	21	—	—
142990 2002 VZ_{92}	16.2	X	247.64533	146.23088	178.13149	3.82977	0.2343548	0.23840954	2.5758484	21	3 10.8	20.5
142991 2002 VG_{93}	16.3	X	110.09629	286.59176	200.14189	4.16967	0.1547842	0.23610127	2.5926099	21	5 25.7	20.0
142992 2002 VZ_{93}	16.2	X	136.48319	181.02814	296.67138	2.84961	0.0499918	0.23967399	2.5667808	21	5 31.5	19.7
142993 2002 VA_{94}	15.5	X	148.23890	151.80115	262.86611	7.08980	0.1588787	0.23203461	2.6228143	21	4 1.0	19.7
142994 2002 VB_{94}	15.3	X	102.38980	138.58760	24.30786	5.97424	0.2262264	0.23742356	2.5829748	21	7 13.5	19.3
142995 2002 VL_{94}	15.9	X	178.92157	150.64662	308.23201	2.77602	0.1266205	0.24180571	2.5516730	21	6 28.8	19.8
142996 2002 VZ_{95}	14.9	X	341.00811	270.98491	6.09019	7.99553	0.1739785	0.24373588	2.5381838	21	5 10.4	17.5
142997 2002 VR_{96}	15.9	X	90.96556	262.34733	183.47231	2.51596	0.0832990	0.22821878	2.6519692	21	2 23.9	19.3
142998 2002 VP_{97}	15.8	X	76.88004	319.39384	41.95532	6.69170	0.0741848	0.21583558	2.7524580	21	—	—
142999 2002 VZ_{98}	14.2	X	131.79295	54.11366	13.62653	29.45405	0.1916834	0.23243823	2.6197771	21	4 5.9	18.3
143000 2002 VL_{101}	15.1	X	190.17278	237.24432	77.50719	16.13355	0.1174817	0.22499390	2.6772498	21	1 12.3	19.4
143001 2002 VO_{101}	15.6	X	183.08506	159.38057	239.03505	8.74732	0.0902499	0.23435043	2.6055068	21	4 13.0	19.6
143002 2002 VQ_{101}	15.9	X	151.67870	233.07376	216.67125	3.89800	0.1233187	0.23587511	2.5942668	21	5 19.8	19.7
143003 2002 VC_{102}	15.1	X	260.18184	62.03322	98.30623	14.03944	0.2211494	0.25767079	2.4458281	21	12 9.9	18.0
143004 2002 VD_{103}	15.5	X	221.32219	57.51450	271.51410	4.03345	0.0977375	0.23359110	2.6111502	21	2 25.3	19.4
143005 2002 VG_{103}	16.0	X	134.45415	317.56820	25.38812	4.34364	0.1153026	0.22308415	2.6925074	21	—	—
143006 2002 VK_{103}	16.4	X	84.70010	92.46689	3.30850	3.92718	0.0560712	0.22977546	2.6399779	21	2 25.7	19.6
143007 2002 VO_{103}	15.6	X	215.64242	301.88116	32.00670	13.63546	0.1841729	0.23456861	2.6038909	21	3 4.8	20.1
143008 2002 VQ_{103}	15.5	X	54.15610	43.52798	10.47813	5.43441	0.0686986	0.21956318	2.7212161	21	—	—
143009 2002 VX_{103}	15.4	X	91.82117	85.82412	308.88187	5.22152	0.0372702	0.22206730	2.7007205	21	—	—
143010 2002 VB_{104}	15.5	X	83.20485	345.29968	10.85132	6.38456	0.0563399	0.21564415	2.7540866	21	—	—
143011 2002 VJ_{104}	15.9	X	199.38880	9.17539	345.42586	1.68796	0.1868032	0.23444256	2.6048241	21	3 9.5	20.1
143012 2002 VG_{105}	15.6	X	255.20618	290.31055	19.36986	3.71837	0.1518946	0.23538482	2.5978680	21	3 7.0	19.5
143013 2002 VJ_{106}	15.1	X	39.43227	289.23640	247.88033	15.33984	0.2020248	0.23117261	2.6293302	21	4 16.1	17.7
143014 2002 VT_{106}	16.0	X	60.65877	336.65780	15.26738	5.09961	0.1747099	0.21454987	2.7634432	21	—	—
143015 2002 VN_{108}	15.7	X	138.43151	168.05906	315.42306	3.35922	0.2187478	0.23782012	2.5801027	21	6 25.8	19.8
143016 2002 VQ_{108}	15.4	X	33.66577	70.18834	52.47948	15.03587	0.0810794	0.22381649	2.6866309	21	1 21.5	18.9
143017 2002 VW_{108}	15.6	X	118.11850	312.16440	52.61540	13.72735	0.1676236	0.22219419	2.6996922	21	1 1.8	19.4
143018 2002 VA_{109}	15.7	X	220.18738	59.09044	279.72413	5.73824	0.2020875	0.23411186	2.6072766	21	3 5.1	20.3
143019 2002 VC_{109}	15.3	X	127.33779	97.88747	262.24399	11.15695	0.1989427	0.22293342	2.6937209	21	1 9.7	19.1
143020 2002 VF_{110}	15.2	X	182.06437	356.10933	53.57962	7.88447	0.3041204	0.23577409	2.5950078	21	5 3.7	20.0
143021 2002 VG_{110}	15.4	X	283.32881	296.77474	72.40256	9.61625	0.2840058	0.24592197	2.5231196	21	6 3.6	19.0
143022 2002 VO_{110}	15.1	X	223.10893	326.28603	65.27242	4.95103	0.2949123	0.23828896	2.5767172	21	5 9.9	19.7
143023 2002 VV_{110}	15.9	X	168.10033	148.56834	270.92466	11.10959	0.2754278	0.23847839	2.5753526	21	5 1.5	20.6
143024 2002 VO_{112}	15.6	X	53.54368	57.55052	53.76522	22.59666	0.0093429	0.22748703	2.6576530	21	2 6.9	19.7
143025 2002 VA_{113}	17.1	X	15.40204	156.78132	277.70352	1.65028	0.1502515	0.26878432	2.3779356	21	—	—
143026 2002 VC_{114}	15.4	X	262.40468	278.79819	66.52482	13.95057	0.1422968	0.24160879	2.5530593	21	5 1.6	19.2
143027 2002 VN_{114}	15.2	X	352.03593	231.80623	248.10815	11.57151	0.1309906	0.21721414	2.7407998	21	—	—
143028 2002 VK_{115}	15.9	X	269.50179	195.36327	356.14366	8.13711	0.0388546	0.21842714	2.7306433	21	—	—
143029 2002 VZ_{118}	16.4	X	52.72792	69.81312	0.68607	2.59153	0.1419963	0.27315583	2.3524969	21	—	—
143030 2002 VD_{119}	15.8	X	145.82170	67.50581	19.45960	5.13189	0.2257178	0.23510888	2.5999003	21	5 16.5	20.0
143031 2002 VH_{119}	15.8	X	168.62566	113.37206	19.28460	5.97172	0.1318808	0.24373357	2.5381999	21	8 3.6	19.8
143032 2002 VO_{119}	15.7	X	189.34858	16.38457	2.53283	3.76560	0.2498896	0.23509909	2.5999725	21	3 31.3	20.2
143033 2002 VN_{121}	15.2	X	233.91084	123.02985	279.30474	15.24779	0.2507334	0.24584939	2.5236161	21	6 1.9	19.6
143034 2002 VQ_{121}	15.8	X	359.37936	261.43498	290.55598	5.33910	0.0624070	0.23045578	2.6347797	21	2 24.4	19.2
143035 2002 VS_{121}	15.1	X	210.81679	50.31358	280.78159	12.86171	0.1262964	0.23324431	2.6137377	21	2 14.1	19.5
143036 2002 VT_{121}	15.8	X	140.87948	153.83417	295.87637	9.23759	0.1176008	0.23703752	2.5857785	21	5 3.8	19.8
143037 2002 VU_{121}	15.6	X	245.36163	37.30128	324.46282	8.36520	0.0731294	0.24156242	2.5533860	21	5 3.8	19.4
143038 2002 VE_{122}	15.3	X	241.29809	286.30946	17.05125	15.22945	0.0899612	0.23214237	2.6220025	21	2 23.5	19.4
143039 2002 VF_{122}	15.0	X	218.44665	280.44091	19.38746	13.40331	0.1820842	0.22982013	2.6396358	21	1 24.4	19.6
143040 2002 VX_{123}	16.5	X	173.06632	279.53644	77.59206	0.29118	0.1466396	0.23082454	2.6319728	21	2 16.2	20.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
143041 2002 VB_{127}	15.7	X	179.88684	125.07973	259.60127	4.76895	0.0423558	0.23324883	2.6137040	21	3 20.3	19.4
143042 2002 VW_{127}	14.7	X	214.41785	6.26607	73.74784	15.17295	0.1049472	0.18649742	3.0340367	21	7 12.2	19.5
143043 2002 VH_{128}	16.9	X	41.50178	124.65491	286.29084	1.62858	0.1858135	0.26934764	2.3746189	21	—	—
143044 2002 VO_{128}	16.1	X	223.02585	353.81220	60.87002	2.39497	0.0995829	0.24307804	2.5427611	21	6 18.4	19.7
143045 2002 VJ_{129}	15.3	X	188.12876	246.82683	233.18044	6.90316	0.0791965	0.19302233	2.9652707	21	8 2.0	20.0
143046 2002 VR_{131}	16.3	X	223.21596	100.55512	226.25419	4.47070	0.1195782	0.23439545	2.6051732	21	2 23.8	20.5
143047 2002 VW_{131}	16.1	X	296.36042	194.44929	229.21959	1.19855	0.0487836	0.20301168	2.8671827	21	10 8.4	19.8
143048 Margaretpenston	15.8	X	335.79857	226.18455	58.97063	5.04488	0.1201671	0.24482200	2.5306714	21	5 22.5	18.5
143049 2002 VY_{134}	15.8	X	262.18689	3.73771	311.78774	13.08041	0.2116483	0.24116749	2.5561728	21	3 8.8	20.0
143050 2002 VM_{135}	15.3	X	189.88762	227.47461	63.59930	14.63555	0.1768712	0.22428423	2.6828943	21	—	—
143051 2002 WO_{1}	15.9	X	299.50672	338.52169	182.82854	4.07816	0.0523662	0.21714573	2.7413754	21	—	—
143052 2002 WY_{2}	16.2	X	234.51947	166.41988	88.05404	10.80917	0.0912397	0.27437845	2.3455033	21	—	—
143053 2002 WG_{3}	15.0	X	21.36295	292.64815	15.06675	11.09727	0.1494902	0.20202320	2.8765276	21	9 22.0	18.4
143054 2002 WH_{5}	15.7	X	324.56995	40.82573	20.39617	1.99852	0.0656734	0.20620700	2.8374864	21	11 14.0	19.1
143055 2002 WQ_{5}	15.7	X	319.10104	284.12009	242.00910	10.60881	0.1481267	0.21984281	2.7189081	21	—	—
143056 2002 WB_{6}	15.3	X	305.02907	264.14686	20.82789	13.30130	0.1857870	0.24083559	2.5585207	21	3 27.4	18.6
143057 2002 WO_{8}	15.6	X	332.67537	266.47714	198.38289	4.52408	0.1281700	0.21244535	2.7816634	21	—	—
143058 2002 WT_{8}	16.2	X	183.43794	237.88081	187.68247	14.02884	0.2841539	0.23866168	2.5740339	21	5 24.5	21.1
143059 2002 WQ_{10}	15.8	X	155.26406	42.31832	116.28651	6.23762	0.1729225	0.24504483	2.5291370	21	8 24.0	19.8
143060 2002 WF_{11}	16.4	X	105.27197	21.96860	27.46376	4.89313	0.1190495	0.22691057	2.6621523	21	2 4.4	19.9
143061 2002 WH_{11}	15.7	X	351.84600	38.30364	49.24196	2.99370	0.0358909	0.21470950	2.7620734	21	—	—
143062 2002 WK_{11}	15.8	X	75.99107	102.75753	70.18167	12.32248	0.1547117	0.23587867	2.5942407	21	6 11.6	19.0
143063 2002 WZ_{11}	15.6	X	124.89833	250.49075	191.16383	13.76672	0.1788602	0.23141963	2.6274588	21	4 17.6	19.4
143064 2002 WC_{12}	15.2	X	34.76522	288.72557	195.42127	14.83877	0.0841073	0.22411359	2.6842560	21	1 18.5	18.7
143065 2002 WF_{12}	15.2	X	207.75946	264.79290	136.22741	13.49673	0.2212463	0.24025018	2.5626752	21	5 15.8	19.8
143066 2002 WZ_{13}	15.8	X	79.71948	16.80087	139.15389	5.55342	0.1817888	0.23375852	2.6099033	21	5 30.6	19.1
143067 2002 WM_{14}	15.2	X	31.82664	288.86244	120.89489	10.14782	0.0885825	0.21420270	2.7664283	21	—	—
143068 2002 WC_{15}	15.0	X	156.44347	258.26581	81.92879	28.91804	0.1295317	0.22471092	2.6794969	21	1 8.1	19.2
143069 2002 WM_{15}	15.8	X	238.30839	254.58594	85.52321	14.08774	0.2111063	0.23838275	2.5760413	21	3 31.2	20.3
143070 2002 WB_{16}	15.9	X	76.51313	232.54625	128.44482	5.90638	0.1273096	0.21638678	2.7477817	21	—	—
143071 2002 WE_{16}	15.5	X	19.46711	306.16878	228.07036	9.36761	0.0999377	0.22840325	2.6505410	21	2 28.0	18.7
143072 2002 WJ_{16}	16.0	X	243.66717	132.79269	204.95006	10.06165	0.2161272	0.23778359	2.5803669	21	3 23.5	20.4
143073 2002 WD_{17}	15.6	X	233.44587	233.38671	151.50927	6.66564	0.2716982	0.24259582	2.5461296	21	5 11.9	20.1
143074 2002 WK_{19}	16.8	X	171.91637	183.24359	161.10023	2.12015	0.1230349	0.22768513	2.6561113	21	1 28.9	20.7
143075 2002 WP_{20}	15.4	X	139.36113	217.39519	64.25154	14.98919	0.1609113	0.21348733	2.7726048	21	12 31.4	20.1
143076 2002 WE_{21}	15.7	X	237.74691	41.17216	227.64444	13.51058	0.1527782	0.22552925	2.6730114	21	—	—
143077 2002 XX_{1}	15.9	X	40.17826	8.93829	126.59484	5.93568	0.1725643	0.22562236	2.6722759	21	2 18.4	18.3
143078 2002 XM_{2}	16.1	X	79.75856	293.20984	222.86133	8.75756	0.1454706	0.23410994	2.6072909	21	5 24.1	19.4
143079 2002 XC_{3}	15.5	X	49.93559	24.67021	113.41868	9.93213	0.0621945	0.22855654	2.6493558	21	3 6.9	18.8
143080 2002 XQ_{3}	16.5	X	202.63325	12.10571	345.28182	6.34735	0.2876249	0.23723973	2.5843090	21	3 15.3	21.3
143081 2002 XC_{5}	15.9	X	125.93558	240.47985	117.61367	9.08021	0.3490305	0.27729976	2.3290012	21	1 16.7	18.8
143082 2002 XJ_{6}	16.0	X	175.17795	286.31554	153.36077	5.10477	0.1838813	0.23819746	2.5773771	21	6 2.1	20.3
143083 2002 XV_{6}	15.5	X	134.77009	272.44153	98.25029	16.37699	0.3657570	0.22452699	2.6809601	21	2 22.4	20.2
143084 2002 XX_{6}	15.8	X	103.51316	191.63322	272.04650	5.19466	0.2326632	0.22763338	2.6565138	21	4 26.3	19.5
143085 2002 XQ_{7}	16.3	X	110.08144	210.70858	228.05166	1.06569	0.0660918	0.23078024	2.6323096	21	3 9.6	19.7
143086 2002 XN_{8}	15.7	X	121.54820	301.01056	75.37743	8.81268	0.1707225	0.22482087	2.6786232	21	1 21.7	19.4
143087 2002 XP_{9}	15.7	X	168.27718	188.20377	265.61454	6.72725	0.1530845	0.23941105	2.5686598	21	6 11.9	19.8
143088 2002 XT_{9}	15.2	X	131.35094	154.27838	265.37468	11.15675	0.1406247	0.22845169	2.6501663	21	3 16.2	19.4
143089 2002 XZ_{9}	15.2	X	221.92299	315.18439	61.92939	3.49626	0.2358842	0.23750691	2.5823705	21	4 23.9	19.7
143090 2002 XC_{10}	15.5	X	97.49308	354.18126	67.29076	3.09660	0.1614838	0.22363031	2.6881217	21	2 15.8	18.8
143091 2002 XB_{13}	16.4	X	352.31418	48.52826	80.83020	7.63182	0.0558855	0.27262549	2.3555468	21	—	—
143092 2002 XD_{13}	15.9	X	128.30532	141.91585	190.97373	1.99843	0.1848242	0.22045605	2.7138637	21	—	—
143093 2002 XD_{14}	15.7	X	98.76862	161.35494	262.24865	4.31975	0.0447934	0.22623854	2.6674216	21	1 30.9	19.2
143094 2002 XA_{15}	15.8	X	239.84116	254.66600	85.90299	4.33314	0.2592544	0.23766409	2.5812318	21	3 25.3	20.3
143095 2002 XB_{15}	15.9	X	325.82363	265.46696	246.73128	4.47782	0.1189785	0.21629765	2.7485365	21	—	—
143096 2002 XJ_{15}	15.2	X	87.28932	105.19038	11.23209	14.16687	0.1309071	0.23297333	2.6157641	21	4 6.5	18.3
143097 2002 XN_{17}	15.4	X	281.79376	316.27581	17.56812	10.88152	0.0860257	0.24117149	2.5561445	21	5 11.2	18.9
143098 2002 XF_{18}	15.4	X	8.53334	353.44157	78.66239	4.67021	0.0733521	0.21294461	2.7773137	21	—	—
143099 2002 XW_{18}	15.3	X	282.70924	106.74886	79.57066	10.15319	0.0738972	0.21563304	2.7541812	21	—	—
143100 2002 XQ_{19}	15.5	X	329.48482	127.15826	37.39833	11.08515	0.0616521	0.22171896	2.7035485	21	—	—
143101 2002 XB_{20}	15.4	X	67.03902	242.04675	264.04980	12.98163	0.0831645	0.23310370	2.6147888	21	4 4.6	19.0
143102 2002 XS_{20}	15.7	X	69.41556	101.24158	31.86511	5.36732	0.0943868	0.23111006	2.6298046	21	3 30.6	18.7
143103 2002 XK_{21}	15.5	X	262.13706	45.95474	303.92117	4.29921	0.1357465	0.24172698	2.5522270	21	5 2.5	19.3
143104 2002 XL_{21}	15.5	X	199.61845	50.45813	311.14767	3.96385	0.1963500	0.23476704	2.6024234	21	3 16.7	20.0
143105 2002 XS_{21}	14.8	X	75.59673	104.99143	278.33643	13.53598	0.2532559	0.21718547	2.7410410	21	—	—
143106 2002 XN_{22}	15.7	X	168.27428	317.33887	6.43158	5.15145	0.0486269	0.22162198	2.7043371	21	—	—
143107 2002 XU_{23}	15.5	X	320.49249	189.09598	290.83455	12.85737	0.1362737	0.21040051	2.7996572	21	—	—
143108 2002 XV_{23}	15.6	X	288.09134	145.52515	357.33159	8.21475	0.1069376	0.21147094	2.7902016	21	—	—
143109 2002 XL_{24}	16.2	X	223.84109	344.34783	78.96322	3.72372	0.0912966	0.24353660	2.5395682	21	7 1.8	19.8
143110 2002 XP_{24}	16.0	X	126.06767	350.06347	32.17860	1.50704	0.0811300	0.22364617	2.6879947	21	1 21.2	19.6
143111 2002 XS_{24}	16.3	X	250.79824	307.84063	43.81662	0.73965	0.1759490	0.23951095	2.5679455	21	4 20.6	20.2
143112 2002 XW_{24}	15.6	X	10.49302	223.15733	283.33633	11.51895	0.1242228	0.22220892	2.6995728	21	1 10.0	18.6
143113 2002 XJ_{25}	15.3	X	114.64185	89.03446	83.47644	1.68508	0.0567762	0.18857530	3.0117078	21	7 18.1	19.5
143114 2002 XK_{26}	15.4	X	229.59961	0.15601	311.69205	14.57296	0.2591097	0.23529165	2.5985538	21	2 8.9	20.0
143115 2002 XG_{27}	16.1	X	127.23260	246.10050	235.56899	3.71955	0.1628386	0.23733442	2.5836215	21	6 7.7	19.9
143116 2002 XT_{27}	15.3	X	282.72296	66.96537	251.81992	11.25133	0.1673025	0.24027611	2.5624908	21	4 9.6	19.1
143117 2002 XZ_{27}	16.4	X	166.82822	248.10343	240.16148	4.51512	0.1832551	0.24262144	2.5459504	21	7 24.3	20.7
143118 2002 XJ_{28}	16.2	X	348.72834	244.51704	239.44243	1.58198	0.0244482	0.21752635	2.7381767	21	—	—
143119 2002 XL_{28}	15.4	X	259.51246	156.98269	245.09617	2.62353	0.1050481	0.19324517	2.9629906	21	7 13.9	19.7
143120 2002 XQ_{28}	15.9	X	294.86848	183.50113	262.32195	5.43181	0.0809332	0.25634479	2.4542552	21	11 9.7	18.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
143121 2002 XF_{29}	15.7	X	19.36907	327.96252	117.79498	9.73459	0.1251064	0.21258187	2.7804723	21	—	—
143122 2002 XH_{31}	15.5	X	5.11361	5.73556	359.23843	2.56800	0.0511326	0.20400669	2.8578523	21	10 29.9	19.2
143123 2002 XS_{31}	16.1	X	104.40373	50.39081	349.56081	5.65579	0.0322701	0.22298749	2.6932855	21	1 9.6	19.7
143124 2002 XU_{31}	15.2	X	296.59339	296.33902	5.20373	4.80482	0.2325183	0.24000149	2.5644452	21	3 29.2	18.6
143125 2002 XY_{31}	15.7	X	231.80007	11.74146	3.01977	3.81026	0.0977709	0.23924685	2.5698349	21	5 5.7	19.6
143126 2002 XV_{32}	15.1	X	126.30590	294.80122	57.23401	9.70491	0.1816036	0.22069427	2.7119104	21	—	—
143127 2002 XW_{32}	15.2	X	47.19865	113.71680	65.23866	14.24356	0.1974333	0.23051512	2.6343276	21	5 11.9	17.8
143128 2002 XU_{33}	16.4	X	170.71192	146.04886	247.78912	0.40478	0.0716506	0.23285896	2.6166205	21	3 25.7	20.2
143129 2002 XA_{34}	15.5	X	281.84999	266.74614	35.87216	14.18348	0.0753196	0.23734568	2.5835398	21	4 7.7	19.0
143130 2002 XF_{34}	16.0	X	88.50437	337.34106	59.87745	2.90281	0.0800915	0.22021054	2.7158805	21	—	—
143131 2002 XE_{35}	15.2	X	336.05694	196.16546	120.73702	10.80072	0.0559122	0.18613334	3.0379918	21	7 14.6	19.2
143132 2002 XN_{35}	15.6	X	99.35316	48.44456	286.21387	3.90764	0.2170853	0.26612245	2.3937660	21	—	—
143133 2002 XB_{36}	16.3	X	158.05935	337.63513	112.12882	2.50416	0.1198980	0.23727264	2.5840700	21	5 26.4	20.1
143134 2002 XS_{37}	16.0	X	246.66666	118.39362	229.73549	27.29052	0.1991039	0.23965116	2.5669438	21	4 6.9	20.4
143135 2002 XY_{37}	15.3	X	288.96547	70.27473	315.43632	10.13601	0.1118313	0.19718642	2.9233762	21	7 31.3	19.1
143136 2002 XC_{38}	15.7	X	138.38351	81.60461	10.48611	12.02888	0.0030624	0.23613073	2.5923942	21	4 21.1	19.2
143137 2002 XK_{38}	16.5	X	209.34011	14.01501	28.65518	2.68359	0.1071430	0.23929323	2.5695029	21	5 17.8	20.2
143138 2002 XU_{38}	15.1	X	337.56002	163.33199	60.22572	29.63661	0.0953365	0.22709405	2.6607182	21	3 26.4	19.1
143139 2002 XC_{39}	15.7	X	111.36698	69.69670	269.17165	3.80862	0.0393358	0.21474015	2.7618106	21	—	—
143140 2002 XT_{39}	15.8	X	158.23864	45.21555	259.03572	6.12995	0.1192708	0.27186643	2.3599293	21	—	—
143141 2002 XY_{40}	15.4	X	182.38830	348.05707	23.15553	13.58478	0.1733605	0.23266083	2.6181058	21	3 18.9	19.7
143142 2002 XF_{41}	15.1	X	177.06910	26.87965	326.88196	10.93548	0.1784813	0.22975978	2.6400980	21	2 17.5	19.3
143143 2002 XH_{41}	15.2	X	236.65916	283.81269	27.52721	13.87244	0.1651471	0.23138370	2.6277308	21	2 24.9	19.7
143144 2002 XU_{41}	15.6	X	186.68172	50.06289	296.04323	8.27223	0.0999416	0.22853897	2.6494916	21	2 11.8	19.7
143145 2002 XC_{42}	16.4	X	84.56247	92.60772	294.79636	6.06695	0.1285432	0.27227783	2.3575515	21	—	—
143146 2002 XL_{42}	15.1	X	300.61889	119.75830	56.68056	12.61276	0.1684606	0.21413124	2.7670438	21	—	—
143147 2002 XT_{42}	15.9	X	275.57782	263.75855	79.32899	2.70143	0.1671386	0.24295769	2.5436008	21	5 7.5	19.3
143148 2002 XO_{43}	16.0	X	232.36752	257.42323	74.79040	15.56463	0.1650355	0.23550553	2.5969802	21	3 19.9	20.5
143149 2002 XC_{44}	15.8	X	35.11113	75.53345	356.50213	5.32598	0.0521090	0.21702384	2.7424018	21	—	—
143150 2002 XJ_{45}	15.7	X	110.74375	144.41779	329.19147	14.09068	0.2166333	0.23477705	2.6023495	21	5 11.2	19.8
143151 2002 XC_{46}	15.0	X	69.72933	314.33108	246.34455	29.35601	0.1645369	0.23942318	2.5685731	21	7 5.4	18.7
143152 2002 XE_{48}	16.8	X	27.79331	148.03627	257.62964	2.22925	0.1860288	0.26625001	2.3930014	21	—	—
143153 2002 XV_{48}	15.8	X	272.28260	115.89799	232.87012	1.60414	0.2546078	0.24442430	2.5334157	21	4 29.7	19.6
143154 2002 XA_{50}	16.1	X	81.71776	127.15491	63.39638	5.20737	0.1340405	0.23893357	2.5720807	21	7 12.2	19.5
143155 2002 XS_{50}	16.0	X	312.96386	204.18011	214.98252	1.28194	0.0539265	0.20302113	2.8670937	21	10 25.8	19.6
143156 2002 XC_{51}	15.8	X	241.33958	354.31365	7.55142	0.58171	0.2265667	0.23985073	2.5655197	21	4 20.6	20.0
143157 2002 XN_{51}	15.2	X	87.25692	111.82870	272.21991	7.91953	0.1089333	0.21855097	2.7296118	21	—	—
143158 2002 XO_{54}	16.2	X	178.00794	281.88667	91.39090	8.00454	0.1954633	0.23234223	2.6204987	21	3 18.5	20.6
143159 2002 XR_{54}	15.9	X	71.56017	247.53022	152.00061	4.81503	0.1155304	0.21870662	2.7283166	21	—	—
143160 2002 XP_{55}	15.8	X	146.13791	192.24815	151.49555	4.56756	0.1108812	0.22189553	2.7021141	21	—	—
143161 2002 XA_{56}	15.2	X	185.80611	248.88614	130.05685	8.29613	0.2053495	0.23402092	2.6079520	21	3 31.2	19.6
143162 2002 XQ_{57}	14.3	X	62.73193	244.79996	281.69256	20.79409	0.0302251	0.17551737	3.1592888	21	4 24.4	19.1
143163 2002 XY_{57}	16.5	X	136.57491	253.21062	221.51687	3.92907	0.1548104	0.23658427	2.5890800	21	6 7.8	20.4
143164 2002 XF_{58}	15.8	X	163.57201	203.95574	247.65717	7.21786	0.1903849	0.23726433	2.5841304	21	6 6.2	19.9
143165 2002 XO_{58}	15.7	X	178.07258	353.18262	45.82222	4.29485	0.1301079	0.23330883	2.6132559	21	4 13.2	19.8
143166 2002 XZ_{59}	15.4	X	239.70713	68.78136	69.76159	3.83605	0.0730504	0.20279164	2.8692564	21	10 27.7	19.4
143167 2002 XC_{60}	15.5	X	195.14770	89.52251	249.64270	6.54886	0.1953446	0.23012355	2.6373150	21	2 13.6	20.1
143168 2002 XO_{62}	15.4	X	115.39618	313.75962	91.73099	13.97171	0.2565598	0.22679889	2.6630261	21	3 8.2	19.5
143169 2002 XZ_{62}	15.9	X	9.49417	321.88341	163.27937	3.88149	0.1545508	0.21860654	2.7291492	21	—	—
143170 2002 XJ_{64}	15.9	X	239.81490	326.09969	22.48390	4.96927	0.1003309	0.23636723	2.5906647	21	4 11.8	19.7
143171 2002 XH_{65}	14.6	X	135.15467	304.83900	35.92514	31.95088	0.1429294	0.22052977	2.7132588	21	—	—
143172 2002 XA_{67}	16.0	X	173.61037	282.05612	79.93982	6.58026	0.1326416	0.22909769	2.6451821	21	2 24.8	20.2
143173 2002 XF_{67}	15.5	X	142.17883	299.18126	113.84228	14.44763	0.1587199	0.23131308	2.6282656	21	4 3.1	19.7
143174 2002 XD_{68}	15.6	X	222.35355	192.76016	170.17639	6.17217	0.2897010	0.23858195	2.5746073	21	4 5.8	20.3
143175 2002 XJ_{68}	14.9	X	6.42409	132.08192	359.93346	13.04123	0.2254223	0.21974802	2.7196900	21	—	—
143176 2002 XB_{73}	14.9	X	249.08274	238.30628	61.67174	14.12401	0.1507268	0.23116520	2.6293864	21	2 23.6	19.3
143177 2002 XF_{73}	15.8	X	211.39118	339.81100	29.09089	4.54091	0.1975679	0.23669632	2.5882629	21	4 6.2	20.0
143178 2002 XN_{73}	15.5	X	121.96280	323.81506	57.11472	8.45640	0.1749492	0.22429949	2.6827726	21	1 29.7	19.3
143179 2002 XB_{74}	15.6	X	301.62660	225.58316	331.82852	2.48072	0.1198849	0.21953176	2.7214758	21	—	—
143180 2002 XE_{75}	16.0	X	152.69367	150.28903	304.31484	3.48357	0.1189853	0.23631389	2.5910545	21	5 25.9	20.0
143181 2002 XU_{75}	15.2	X	139.40025	116.23867	281.81191	12.17720	0.1389621	0.22735950	2.6586468	21	2 25.9	19.3
143182 2002 XL_{76}	16.6	X	2.22871	53.01181	17.82914	2.50111	0.1629407	0.26405664	2.4062347	21	—	—
143183 2002 XE_{77}	15.1	X	220.19072	251.48470	62.08558	15.14810	0.2140718	0.22930624	2.6435781	21	2 12.0	19.9
143184 2002 XK_{77}	15.6	X	113.34406	69.50389	305.32877	8.31902	0.0288937	0.21995045	2.7180211	21	—	—
143185 2002 XS_{77}	15.3	X	314.48756	239.89498	274.81260	14.02922	0.1126861	0.21445186	2.7642852	21	—	—
143186 2002 XP_{78}	16.0	X	208.20547	39.48730	350.31350	3.61196	0.2625879	0.23783261	2.5800123	21	4 26.2	20.5
143187 2002 XT_{78}	16.1	X	105.54699	35.02709	54.92124	5.08675	0.1709720	0.22778230	2.6553558	21	4 5.8	19.8
143188 2002 XW_{78}	15.7	X	79.35356	18.55339	33.52804	3.10905	0.1090703	0.21906169	2.7253676	21	—	—
143189 2002 XB_{79}	16.0	X	24.90650	150.02946	292.37217	6.27206	0.0892844	0.26786690	2.3833620	21	—	—
143190 2002 XQ_{80}	15.6	X	54.86660	14.93963	29.30399	5.07314	0.2250476	0.21501535	2.7594534	21	—	—
143191 2002 XO_{81}	15.9	X	252.92760	344.37690	2.97078	2.88244	0.1931200	0.23738098	2.5832837	21	4 15.3	20.1
143192 2002 XB_{83}	15.2	X	27.71360	281.84466	156.98744	8.49217	0.1753162	0.21659685	2.7460048	21	—	—
143193 2002 XV_{83}	15.9	X	220.87989	317.21235	120.48903	11.49684	0.2010580	0.24569374	2.5246819	21	7 8.9	19.9
143194 2002 XT_{84}	14.3	X	94.87482	3.07699	109.36559	13.30222	0.0452730	0.17320021	3.1874040	21	4 13.6	19.0
143195 2002 XW_{84}	15.6	X	127.39951	174.04821	193.30667	11.89355	0.2036321	0.22393397	2.6856911	21	1 18.1	19.6
143196 2002 XE_{85}	15.7	X	49.49467	73.64576	35.80383	7.11318	0.0783389	0.22358285	2.6885021	21	1 27.9	19.0
143197 2002 XL_{86}	15.2	X	146.77451	302.70345	63.88911	13.58393	0.1866054	0.22478764	2.6788872	21	2 11.6	19.5
143198 2002 XH_{87}	15.8	X	179.23092	308.75645	76.62216	6.56004	0.2088967	0.23222280	2.6213971	21	4 2.8	20.3
143199 2002 XJ_{87}	15.4	X	77.56666	153.80978	285.92058	20.63801	0.1182810	0.22244877	2.6976321	21	1 28.5	18.8
143200 2002 XV_{87}	15.2	X	104.79132	64.14132	343.41406	10.58538	0.1168192	0.22547776	2.6734183	21	2 2.1	18.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
143201 2002 XC_{88}	14.8	X	118.98861	158.68394	344.04734	10.44901	0.0731651	0.18308763	3.0715910	21	6 16.7	19.4
143202 2002 XS_{89}	15.3	X	78.50377	221.18051	169.22942	6.41175	0.2327667	0.21964740	2.7205205	21	—	—
143203 2002 XX_{89}	15.1	X	90.78525	242.97890	114.76174	12.65300	0.1597802	0.21688901	2.7435382	21	—	—
143204 2002 XF_{90}	15.6	X	329.87178	324.26850	112.99176	11.60307	0.2239833	0.26083672	2.4259968	21	—	—
143205 2002 XQ_{92}	16.6	X	335.81912	301.75387	286.98139	3.40832	0.0617465	0.28565495	2.2833626	21	3 1.9	19.2
143206 2002 XS_{92}	16.2	X	102.57495	308.11116	47.82292	7.75596	0.1798599	0.21958054	2.7210727	21	—	—
143207 2002 XD_{101}	15.8	X	220.26656	266.35983	105.98554	2.87761	0.0257874	0.23607631	2.5927926	21	4 26.3	19.2
143208 2002 XG_{101}	15.4	X	182.19039	250.61642	76.99486	15.41681	0.1549545	0.22590396	2.6700547	21	1 23.3	19.8
143209 2002 XR_{105}	15.6	X	139.29469	159.08610	267.27719	10.98435	0.1348151	0.22957881	2.6414852	21	4 2.5	19.8
143210 2002 XE_{107}	16.1	X	343.26115	154.46914	262.37990	5.47711	0.1070483	0.25961059	2.4336294	21	12 22.8	18.4
143211 2002 XO_{109}	16.1	X	76.53505	102.58998	328.36088	3.04758	0.0766458	0.22374674	2.6871892	21	1 15.9	19.5
143212 2002 YG	15.7	X	71.55359	59.88040	59.16557	4.81072	0.1240500	0.22501706	2.6770660	21	3 20.9	18.8
143213 2002 YS	14.5	X	251.61846	322.25361	102.47402	15.59004	0.1495694	0.19139995	2.9820036	21	7 29.2	18.9
143214 2002 YY	16.1	X	32.44490	339.41341	104.67677	3.24267	0.1909301	0.26896454	2.3768733	21	—	—
143215 2002 YE_{1}	14.9	X	346.83368	11.22205	94.66804	13.72725	0.1361683	0.21006450	2.8026419	21	—	—
143216 2002 YP_{1}	15.6	X	216.51753	229.99711	231.38662	3.71464	0.2196895	0.24354904	2.5394818	21	8 1.8	19.9
143217 2002 YA_{3}	15.5	X	42.89475	292.38719	115.21642	10.60370	0.1635117	0.21272624	2.7792141	21	—	—
143218 2002 YL_{3}	15.8	X	247.88635	337.89886	65.71677	8.16000	0.2610111	0.24298614	2.5434022	21	6 14.9	20.0
143219 2002 YY_{3}	15.7	X	245.66504	120.52270	324.16457	55.38817	0.0521758	0.35182706	1.9872380	21	8 21.9	18.2
143220 2002 YY_{4}	15.2	X	231.24082	346.50951	78.93614	30.33386	0.1417777	0.24058694	2.5602833	21	7 5.8	19.3
143221 2002 YL_{6}	15.4	X	172.22665	293.45250	70.31673	5.49928	0.3467359	0.22802656	2.6534593	21	3 8.5	20.3
143222 2002 YB_{10}	15.8	X	317.12474	272.10916	291.49500	3.94831	0.0775747	0.22028250	2.7152889	21	1 14.2	19.5
143223 2002 YN_{11}	14.4	X	52.27439	181.35515	25.41074	22.95362	0.0779858	0.17979744	3.1089499	21	6 7.9	18.9
143224 2002 YX_{12}	16.1	X	128.26586	268.08120	233.15574	4.21144	0.1493045	0.23802684	2.5786086	21	7 2.6	20.0
143225 2002 YF_{13}	15.8	X	61.78374	172.89519	254.78765	3.08425	0.0847168	0.21806515	2.7336645	21	—	—
143226 2002 YA_{16}	16.6	X	356.92808	216.18506	281.13371	1.20043	0.1717351	0.27212054	2.3584599	21	—	—
143227 2002 YK_{17}	15.7	X	141.23201	74.27438	100.58463	6.49994	0.1585102	0.24424824	2.5346330	21	9 1.2	19.8
143228 2002 YV_{17}	16.1	X	224.50464	275.08394	96.37718	4.53867	0.2500934	0.23910945	2.5708193	21	4 19.7	20.5
143229 2002 YY_{17}	16.7	X	289.07285	268.32654	195.54884	1.43559	0.1379084	0.25774260	2.4453737	21	11 20.8	19.2
143230 2002 YK_{18}	15.8	X	181.51789	144.12261	275.83416	3.99418	0.0955262	0.23655225	2.5893137	21	5 10.3	19.7
143231 2002 YO_{18}	16.1	X	134.34552	283.50168	78.30827	7.91926	0.2783407	0.22445361	2.6815444	21	1 31.4	20.3
143232 2002 YU_{19}	16.3	X	310.17725	8.46200	87.38536	4.44673	0.1447164	0.25938270	2.4350546	21	12 19.1	18.5
143233 2002 YK_{20}	15.7	X	144.59016	123.85628	273.49654	5.47905	0.0694513	0.22709136	2.6607392	21	2 26.2	19.5
143234 2002 YT_{20}	16.1	X	193.63342	221.09649	241.55073	0.88115	0.1350869	0.24235051	2.5478475	21	7 18.2	19.9
143235 2002 YZ_{20}	16.7	X	357.07798	143.79742	334.18749	0.77562	0.1388122	0.26976996	2.3721401	21	—	—
143236 2002 YA_{21}	15.2	X	291.71686	350.18513	103.76217	6.69693	0.1657420	0.20384339	2.8593784	21	10 29.9	18.7
143237 2002 YB_{21}	15.9	X	154.56931	235.10416	274.47291	7.17090	0.0724481	0.24423300	2.5347385	21	8 4.9	19.5
143238 2002 YF_{21}	16.4	X	321.61074	58.55778	75.21970	3.58949	0.1431850	0.26593198	2.3949089	21	—	—
143239 2002 YC_{22}	15.7	X	43.13519	183.31715	277.45061	12.68258	0.1686338	0.21979416	2.7193093	21	1 5.8	18.5
143240 2002 YC_{24}	14.6	X	1.75091	316.00854	287.87801	8.18802	0.0774162	0.18033166	3.1028068	21	5 14.6	18.7
143241 2002 YV_{24}	15.3	X	167.06619	303.65662	283.29696	12.81798	0.1982566	0.25355467	2.4722268	21	11 24.2	19.5
143242 2002 YM_{25}	15.9	X	65.23651	86.40922	96.22055	4.76111	0.0698001	0.23353907	2.6115380	21	5 27.8	19.0
143243 2002 YA_{26}	13.9	X	111.06149	233.75178	107.05710	19.06070	0.4450539	0.16455609	3.2980716	21	1 11.7	19.1
143244 2002 YJ_{26}	15.5	X	350.51500	9.26821	111.81691	10.35176	0.1052123	0.21362098	2.7714483	21	—	—
143245 2002 YG_{27}	15.8	X	291.67167	12.19355	115.72586	3.59438	0.1332737	0.25898559	2.4375432	21	12 30.9	18.3
143246 2002 YK_{27}	14.6	X	120.07470	215.60952	290.62967	10.35526	0.0490954	0.18264415	3.0765611	21	6 20.1	19.0
143247 2002 YJ_{28}	15.3	X	286.66032	73.32535	281.80051	7.69071	0.3419581	0.24457165	2.5323981	21	5 10.2	19.2
143248 2002 YS_{28}	15.6	X	326.10096	337.71650	91.65945	3.48092	0.1887500	0.20397116	2.8581841	21	11 25.1	18.3
143249 2002 YP_{29}	16.3	X	11.08780	141.67105	339.85676	2.12186	0.1349512	0.26917807	2.3756161	21	—	—
143250 2002 YU_{30}	15.0	X	325.47170	31.65609	292.50343	8.91763	0.0552041	0.18749222	3.0232951	21	7 9.1	18.9
143251 2002 YY_{30}	15.7	X	298.31306	5.82512	86.54152	3.17160	0.0362676	0.20162859	2.8802796	21	11 18.7	19.5
143252 2002 YG_{31}	15.3	X	292.70738	233.02171	304.02876	8.22635	0.1009778	0.21095076	2.7947866	21	—	—
143253 2002 YL_{31}	15.9	X	57.94963	204.34134	182.13549	1.80471	0.2194883	0.26540315	2.3980892	21	—	—
143254 2002 YL_{35}	15.8	X	125.02766	244.81083	198.74758	3.76418	0.1580436	0.23036499	2.6354720	21	4 16.8	19.4
143255 2002 YV_{35}	15.9	X	232.05302	239.48323	123.50099	5.31542	0.3226669	0.23964477	2.5669894	21	4 12.6	20.6
143256 2002 YZ_{35}	15.8	X	27.58246	300.80235	214.02279	2.95770	0.1541972	0.22259708	2.6964337	21	2 18.8	18.5
143257 2003 AE	16.5	X	70.76247	265.66579	113.92025	21.97625	0.3501769	0.27140472	2.3626050	21	—	—
143258 2003 AU_{1}	15.1	X	156.94800	265.07432	111.33058	15.78940	0.0916750	0.23024119	2.6364166	21	2 22.2	19.1
143259 2003 AO_{2}	15.6	X	126.93963	283.04209	92.83127	21.80477	0.2779236	0.28143157	2.3061497	21	2 1.8	18.9
143260 2003 AA_{6}	15.2	X	43.14367	346.54840	132.98884	15.02708	0.1442069	0.21808767	2.7334763	21	2 1.5	18.1
143261 2003 AB_{7}	15.2	X	181.67998	33.18859	0.10004	7.56646	0.1951409	0.23360742	2.6110286	21	4 9.1	19.5
143262 2003 AF_{7}	15.4	X	114.42089	357.45255	68.29489	15.63603	0.0682141	0.22610238	2.6684923	21	3 8.8	19.4
143263 2003 AQ_{7}	14.9	X	117.81727	336.76800	166.47445	17.51423	0.0629828	0.18141523	3.0904393	21	6 16.3	19.7
143264 2003 AW_{9}	14.9	X	96.73691	197.15385	313.19825	4.71199	0.1399120	0.17533039	3.1615344	21	6 8.9	19.4
143265 2003 AN_{10}	14.9	X	211.99936	283.94231	132.81160	11.14977	0.1788403	0.18779078	3.0200900	21	6 8.3	20.0
143266 2003 AF_{11}	15.0	X	150.51395	239.82699	127.38817	12.20271	0.1944439	0.22564623	2.6720874	21	2 12.5	19.2
143267 2003 AJ_{11}	14.7	X	44.81199	278.62539	147.35252	11.54931	0.2487811	0.21656366	2.7462854	21	—	—
143268 2003 AA_{12}	15.7	X	131.56413	297.40585	141.26191	13.76388	0.2441199	0.22925368	2.6439821	21	5 1.4	20.2
143269 2003 AK_{12}	15.5	X	170.37072	257.53953	186.34245	7.53999	0.1680594	0.23668744	2.5883276	21	6 2.7	19.8
143270 2003 AG_{13}	15.0	X	105.18455	302.71778	119.49189	26.77994	0.1105059	0.22339059	2.6900445	21	2 21.3	18.8
143271 2003 AF_{14}	15.3	X	310.48410	309.90742	88.45799	15.54637	0.2353364	0.25759721	2.4462938	21	9 21.3	17.8
143272 2003 AN_{14}	15.1	X	284.17134	235.72053	111.07995	15.31414	0.0830733	0.24493948	2.5298621	21	6 7.4	18.5
143273 2003 AB_{15}	15.6	X	93.66988	67.05669	118.74336	5.65170	0.3078588	0.22948431	2.6422103	21	8 11.8	19.8
143274 2003 AU_{15}	15.5	X	113.77645	32.33288	57.15620	9.25547	0.1657128	0.22889698	2.6467281	21	4 15.5	19.3
143275 2003 AJ_{16}	15.4	X	133.20035	316.45274	102.86975	15.52363	0.1476943	0.23159179	2.6261566	21	4 1.5	19.6
143276 2003 AA_{18}	15.4	X	163.58400	21.70952	78.66206	14.37286	0.1276534	0.23542013	2.5976082	21	6 14.7	19.5
143277 2003 AG_{19}	15.8	X	170.84731	246.03159	142.52521	5.59830	0.2939852	0.23085509	2.6317406	21	4 2.2	20.5
143278 2003 AK_{21}	15.4	X	193.68765	43.61356	80.62281	5.19244	0.1140824	0.18956393	3.0012275	21	8 16.1	20.1
143279 2003 AW_{24}	16.0	X	133.99518	54.72875	28.48352	5.41766	0.2229650	0.23146451	2.6271192	21	5 1.6	20.1
143280 2003 AB_{25}	15.7	X	177.05460	166.75689	269.56243	6.44216	0.1124372	0.23688510	2.5868876	21	5 27.7	19.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
143281 2003 AJ_{25}	16.0	X	336.87290	150.41690	271.14516	4.99765	0.1108182	0.25865090	2.4396455	21	12 18.5	18.5
143282 2003 AL_{25}	16.1	X	276.85594	120.24944	52.70001	2.41639	0.1754574	0.26259869	2.4151328	21	—	—
143283 2003 AX_{25}	14.0	X	241.38092	279.32756	282.79225	17.65498	0.1073879	0.15486560	3.4342566	21	12 31.1	19.0
143284 2003 AA_{26}	16.3	X	316.03679	329.65489	129.09698	1.87197	0.1538113	0.25953097	2.4341271	21	—	—
143285 2003 AS_{26}	15.7	X	198.24797	128.26810	240.63571	2.88189	0.2735271	0.23244654	2.6197147	21	3 25.5	20.5
143286 2003 AT_{29}	15.5	X	10.65017	344.10072	98.82669	3.23038	0.1728002	0.21112261	2.7932698	21	—	—
143287 2003 AL_{30}	15.4	X	326.88846	278.69856	134.34483	9.72732	0.0373333	0.19891571	2.9064085	21	11 10.2	19.4
143288 2003 AK_{33}	14.9	X	264.07616	258.36831	109.84573	11.05287	0.0504151	0.18338635	3.0682544	21	6 14.8	19.4
143289 2003 AL_{33}	16.4	X	243.15611	343.40873	75.66255	2.38278	0.1540453	0.24255503	2.5464151	21	7 11.9	20.1
143290 2003 AW_{33}	14.8	X	337.22068	182.42749	106.03107	10.71946	0.0425604	0.18196320	3.0842317	21	6 10.7	19.0
143291 2003 AZ_{33}	15.9	X	276.37428	255.84038	322.53607	4.90497	0.1915584	0.26479853	2.4017382	21	—	—
143292 2003 AO_{34}	16.2	X	77.03228	310.89596	136.20761	6.36049	0.1177148	0.27728691	2.3290732	21	1 28.8	18.3
143293 2003 AS_{34}	15.7	X	255.00055	167.01731	201.41299	2.98959	0.2656431	0.24309170	2.5426659	21	5 8.0	19.7
143294 2003 AV_{34}	15.6	X	162.53198	257.32567	218.98010	3.09138	0.1320749	0.23979717	2.5659017	21	7 4.4	19.7
143295 2003 AA_{35}	15.4	X	176.34496	251.73548	110.50700	12.29961	0.2713321	0.23011855	2.6373532	21	3 7.7	20.2
143296 2003 AF_{36}	15.8	X	202.90256	286.07982	122.29381	4.14886	0.0721513	0.23752389	2.5822474	21	5 20.9	19.5
143297 2003 AU_{37}	16.4	X	328.95561	271.00383	219.05280	1.88641	0.1363481	0.26436199	2.4043815	21	—	—
143298 2003 AW_{38}	15.8	X	40.25988	215.34433	228.56030	4.46902	0.0839969	0.21482643	2.7610710	21	—	—
143299 2003 AC_{39}	16.5	X	321.31212	322.23645	159.21701	7.27949	0.1470493	0.26148269	2.4219997	21	—	—
143300 2003 AD_{39}	14.9	X	119.22588	184.30561	212.53123	12.75107	0.1850347	0.22275643	2.6951476	21	2 10.0	18.9
143301 2003 AO_{39}	16.4	X	13.84021	211.44221	249.17201	4.26596	0.1360351	0.21341498	2.7732314	21	—	—
143302 2003 AZ_{39}	14.3	X	42.10892	22.46937	144.17004	13.36924	0.0712991	0.17179464	3.2047658	21	4 12.1	18.7
143303 2003 AF_{40}	14.9	X	237.89752	80.20283	285.71490	14.44387	0.3590301	0.23735503	2.5834720	21	4 9.5	20.0
143304 2003 AU_{40}	14.9	X	122.03877	233.60685	274.43379	9.73689	0.1264144	0.18030537	3.1031084	21	7 2.8	19.6
143305 2003 AD_{41}	15.9	X	197.72175	207.93714	197.70391	4.91258	0.2346290	0.23445620	2.6047231	21	5 9.9	20.4
143306 2003 AE_{41}	15.3	X	195.22975	217.25713	276.79460	8.93077	0.1188075	0.18865629	3.0108459	21	8 23.7	20.2
143307 2003 AK_{41}	16.0	X	220.35236	231.12634	170.75392	4.49839	0.3411941	0.23904605	2.5712739	21	5 19.2	20.8
143308 2003 AQ_{41}	16.3	X	82.65019	310.81053	151.24430	6.46752	0.0880526	0.27558281	2.3386648	21	2 26.0	18.6
143309 2003 AM_{42}	16.5	X	97.45841	161.93066	271.68147	4.29669	0.1711791	0.27536475	2.3398992	21	2 19.8	19.0
143310 2003 AV_{42}	14.8	X	63.05098	62.57744	300.95779	11.70381	0.2234001	0.21272110	2.7792589	21	—	—
143311 2003 AW_{45}	15.6	X	199.19446	299.11841	70.07977	6.35073	0.2762725	0.23339564	2.6126078	21	3 30.6	20.3
143312 2003 AB_{47}	15.2	X	202.56231	311.28394	74.49249	5.23814	0.2135896	0.23486321	2.6017130	21	4 20.7	19.6
143313 2003 AC_{47}	14.6	X	74.07600	246.57670	308.01394	8.59578	0.0267231	0.18337192	3.0684155	21	6 20.7	18.9
143314 2003 AL_{47}	16.1	X	188.31460	13.86158	26.32836	3.53680	0.1938731	0.23428305	2.6060063	21	4 24.4	20.5
143315 2003 AQ_{48}	14.9	X	297.66612	278.28883	87.06688	11.49717	0.1187131	0.19061089	2.9902275	21	7 15.3	18.8
143316 2003 AY_{48}	15.8	X	124.88294	1.76368	29.46740	5.61510	0.1968580	0.22342015	2.6898072	21	2 17.7	19.7
143317 2003 AS_{51}	15.8	X	334.71561	72.06598	45.08906	4.18820	0.0456464	0.21000628	2.8031598	21	—	—
143318 2003 AQ_{53}	15.8	X	79.93287	12.82266	62.75004	4.20163	0.0498970	0.21955673	2.7212695	21	1 25.4	19.4
143319 2003 AV_{54}	15.8	X	341.76311	66.19690	58.30853	5.29763	0.0216306	0.21157355	2.7892994	21	—	—
143320 2003 AY_{56}	14.5	X	155.77529	143.26803	312.12410	15.16807	0.0496016	0.17934746	3.1141479	21	5 26.4	19.3
143321 2003 AP_{57}	16.0	X	68.92991	320.05953	85.95185	4.60263	0.2157134	0.21549306	2.7553738	21	—	—
143322 2003 AV_{57}	15.5	X	220.15098	16.07781	84.52715	7.92946	0.1177733	0.18894473	3.0077808	21	8 14.1	20.2
143323 2003 AE_{58}	15.5	X	240.89418	330.21549	80.97142	5.99943	0.2503999	0.24204552	2.5499873	21	6 19.5	19.6
143324 2003 AO_{60}	16.2	X	162.63467	247.25675	177.94499	2.86062	0.1609008	0.23479120	2.6022449	21	5 2.4	20.3
143325 2003 AX_{61}	15.2	X	207.37905	236.54140	252.55280	9.90406	0.0373277	0.19235438	2.9721314	21	9 4.2	19.7
143326 2003 AL_{62}	15.2	X	86.61099	160.06810	102.43077	17.70061	0.0377034	0.19444794	2.9507596	21	10 13.7	19.8
143327 2003 AV_{63}	14.7	X	17.40550	195.68114	116.20903	11.28912	0.0854339	0.19242245	2.9714303	21	9 14.9	18.6
143328 2003 AD_{64}	15.8	X	170.42018	350.10467	131.82430	5.17935	0.1803335	0.24151620	2.5537117	21	7 20.4	20.0
143329 2003 AP_{64}	15.8	X	345.34464	112.10040	55.22804	14.18001	0.1434138	0.21876703	2.7278143	21	—	—
143330 2003 AL_{65}	15.2	X	110.21111	114.52361	45.34825	9.43001	0.2605420	0.23407920	2.6075191	21	7 21.9	19.5
143331 2003 AN_{65}	15.1	X	326.91515	10.43358	13.45663	10.29382	0.3087286	0.20023524	2.8936258	21	9 11.9	17.4
143332 2003 AD_{66}	15.9	X	198.46834	213.40898	165.49699	6.71084	0.2967873	0.23396139	2.6083944	21	4 9.1	20.6
143333 2003 AJ_{66}	15.4	X	276.82677	99.01563	47.79080	14.24860	0.0209852	0.20719128	2.8284927	21	12 30.5	19.5
143334 2003 AK_{70}	15.0	X	124.19641	142.08162	316.06338	16.15895	0.1899895	0.17715916	3.1397397	21	5 5.1	20.3
143335 2003 AA_{72}	15.2	X	278.68008	296.63631	50.66230	15.19259	0.2027955	0.23968435	2.5667068	21	5 11.5	18.8
143336 2003 AV_{73}	15.7	X	22.59473	76.53995	45.26018	9.73722	0.0808386	0.21903300	2.7256056	21	1 1.7	19.1
143337 2003 AW_{73}	15.1	X	174.85506	55.20762	325.56854	10.21332	0.2564955	0.23121608	2.6290007	21	3 19.8	19.8
143338 2003 AX_{73}	15.7	X	25.71129	34.30053	48.83980	9.28853	0.1181948	0.21477023	2.7615526	21	—	—
143339 2003 AZ_{73}	15.5	X	23.35630	139.44132	56.58104	14.50451	0.1101490	0.22886336	2.6469874	21	4 16.6	18.5
143340 2003 AC_{74}	14.9	X	23.10544	42.18052	6.60997	7.67826	0.2293913	0.21117420	2.7928148	21	—	—
143341 2003 AV_{75}	14.8	X	206.64697	290.23043	53.79978	11.41850	0.1677717	0.22962519	2.6411295	21	3 9.4	19.3
143342 2003 AW_{75}	15.1	X	155.11867	350.71402	358.03581	8.11351	0.2263699	0.22367195	2.6877881	21	1 30.3	19.5
143343 2003 AH_{76}	15.4	X	30.91519	359.33952	35.38225	8.72373	0.2227778	0.21108002	2.7936455	21	—	—
143344 2003 AT_{77}	14.9	X	265.80871	349.44022	72.35593	16.06276	0.1457067	0.19184348	2.9774058	21	8 16.5	19.4
143345 2003 AF_{78}	15.8	X	229.81525	352.97563	53.70608	7.49301	0.2042713	0.24001374	2.5643580	21	6 6.7	19.9
143346 2003 AS_{78}	15.8	X	307.33381	309.39313	236.18485	2.46357	0.1198331	0.21317488	2.7753134	21	—	—
143347 2003 AR_{80}	15.4	X	188.88612	308.25483	93.90247	29.13842	0.2356422	0.22947601	2.6422740	21	5 11.1	20.5
143348 2003 AE_{81}	15.0	X	211.35195	85.77422	19.13252	16.46100	0.1812997	0.24432363	2.5341116	21	8 13.1	19.3
143349 2003 AG_{81}	15.0	X	125.11974	13.70533	40.56679	12.61816	0.1821147	0.22684212	2.6626878	21	3 19.7	19.0
143350 2003 AW_{81}	15.3	X	44.87780	66.15527	37.77497	13.96661	0.1323041	0.21901320	2.7257699	21	1 16.6	18.6
143351 2003 AD_{84}	16.8	X	233.10893	305.78835	119.06048	4.27177	0.2257428	0.24274567	2.5450817	21	7 1.9	20.9
143352 2003 AB_{85}	15.4	X	82.43595	184.20750	12.12412	10.27963	0.1148348	0.18051469	3.1007091	21	7 19.5	19.9
143353 2003 AP_{86}	15.8	X	239.62331	225.29333	140.75390	6.78192	0.3086248	0.24110672	2.5566023	21	4 22.3	20.4
143354 2003 AS_{87}	14.7	X	109.97592	27.13425	138.18922	11.47593	0.0739507	0.18326794	3.0695760	21	7 4.9	19.3
143355 2003 AD_{88}	14.7	X	244.25674	89.83143	49.75085	12.29002	0.1550745	0.20081726	2.8880322	21	10 24.5	18.8
143356 2003 AK_{92}	15.0	X	96.84038	210.19849	289.80819	14.20905	0.0606620	0.17579228	3.1559941	21	5 13.0	19.7
143357 2003 AS_{92}	15.0	X	71.54171	182.15385	202.92687	13.56904	0.1841891	0.21615890	2.7497126	21	—	—
143358 2003 BF	16.3	X	10.87104	83.00234	60.92007	7.81310	0.1787609	0.26910237	2.3760616	21	—	—
143359 2003 BV	15.2	X	208.43700	27.55627	39.77124	12.87050	0.2139630	0.23826456	2.5768932	21	6 12.5	19.7
143360 2003 BB_{2}	16.1	X	330.35295	296.80196	97.72479	3.14768	0.1714724	0.25261782	2.4783353	21	10 28.4	18.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
143361 2003 BP_2	15.7	X	143.34606	231.42902	315.80986	3.52752	0.1036910	0.24080391	2.5587451	21	9 12.9	19.7
143362 2003 BC_6	14.7	X	103.52168	4.62644	133.77417	11.32798	0.0176803	0.17649866	3.1475679	21	5 19.6	19.3
143363 2003 BK_6	15.2	X	81.56404	341.30468	214.13811	3.19672	0.1785884	0.18064162	3.0992563	21	7 22.8	19.7
143364 2003 BL_6	15.4	X	77.51686	145.92145	277.60921	11.05763	0.1608956	0.21946085	2.7220620	21	1 17.0	18.4
143365 2003 BH_7	15.7	X	10.88811	338.85381	116.46747	14.19723	0.1703594	0.21228965	2.7830232	21	—	—
143366 2003 BL_7	15.7	X	123.25617	198.11904	239.81960	11.86912	0.2587427	0.22764127	2.6564524	21	4 16.9	19.9
143367 2003 BA_8	15.7	X	187.39265	237.53896	186.75495	13.05407	0.1511652	0.23833009	2.5764208	21	5 25.2	20.0
143368 2003 BT_8	15.3	X	69.60262	310.95464	186.06933	5.33987	0.1384834	0.17194536	3.2028928	21	4 18.5	19.4
143369 2003 BB_9	15.0	X	157.86044	289.76252	166.00715	9.06809	0.0874429	0.17946811	3.1127520	21	6 4.1	19.9
143370 2003 BJ_9	16.6	X	257.72259	137.28197	57.71571	3.35949	0.1383037	0.26103149	2.4247899	21	—	—
143371 2003 BN_{10}	14.9	X	252.48614	314.53388	110.38473	11.24503	0.0808781	0.18805819	3.0172263	21	8 8.7	19.2
143372 2003 BB_{11}	14.9	X	122.87398	200.27671	328.81293	8.96710	0.0585207	0.18251949	3.0779618	21	7 25.0	19.4
143373 2003 BK_{12}	15.2	X	320.21539	303.16394	340.14840	13.07924	0.0771031	0.22812750	2.6526765	21	4 25.2	18.9
143374 2003 BE_{13}	15.7	X	230.79464	98.51461	89.28529	3.07613	0.1582764	0.25582554	2.4575750	21	12 14.3	18.8
143375 2003 BG_{13}	14.8	X	58.19629	94.83877	129.74899	11.10233	0.0812528	0.18275471	3.0753201	21	7 15.5	18.8
143376 2003 BB_{15}	14.9	X	47.25034	187.71106	343.04606	8.00498	0.0478208	0.17145579	3.2089869	21	4 14.8	19.4
143377 2003 BD_{15}	14.9	X	175.52034	154.84961	330.93273	16.17114	0.1003988	0.18433983	3.0576652	21	8 1.3	19.7
143378 2003 BU_{16}	15.7	X	40.14269	324.29191	119.29030	8.54771	0.2082342	0.21383948	2.7695601	21	—	—
143379 2003 BA_{18}	16.2	X	189.80719	159.79783	305.62637	3.07737	0.1564185	0.23877004	2.5732550	21	7 17.7	20.2
143380 2003 BH_{19}	14.8	X	258.11584	230.18105	108.26095	12.45879	0.0635472	0.17550954	3.1593827	21	5 3.9	19.6
143381 2003 BC_{21}	16.0	X	189.30440	114.02576	292.15108	5.47423	0.5107150	0.23578999	2.5948911	21	5 3.1	21.6
143382 2003 BT_{21}	16.4	X	182.57940	95.79212	298.93326	6.70624	0.2077252	0.28350767	2.2948775	21	4 6.4	20.2
143383 2003 BR_{24}	15.0	X	280.22166	185.87988	268.57255	12.44802	0.0510836	0.19590111	2.9361492	21	10 20.6	19.2
143384 2003 BZ_{24}	15.3	X	232.04435	196.09671	258.81268	9.87943	0.0742274	0.18794285	3.0184606	21	8 17.5	19.9
143385 2003 BR_{25}	14.9	X	126.65355	168.27027	212.31118	12.62660	0.1656901	0.22434023	2.6824478	21	1 27.1	18.9
143386 2003 BY_{25}	14.7	X	173.36092	6.49405	135.03729	16.39452	0.1795542	0.19008214	2.9957703	21	8 15.8	19.6
143387 2003 BG_{26}	15.9	X	93.75199	299.37354	194.56208	12.59259	0.2050764	0.23114437	2.6295444	21	5 23.6	19.6
143388 2003 BN_{26}	14.8	X	263.27081	229.02922	159.77045	13.69783	0.0583101	0.18588973	3.0406455	21	7 7.7	19.3
143389 2003 BK_{27}	14.8	X	184.71161	273.00040	157.44208	20.15903	0.1101688	0.17859016	3.1229453	21	6 3.2	20.1
143390 2003 BN_{27}	16.1	X	219.35236	165.59764	279.28297	3.54601	0.2254358	0.24035291	2.5619450	21	7 14.9	20.4
143391 2003 BM_{28}	15.6	X	6.49778	190.30843	310.70046	7.06954	0.1592613	0.21410230	2.7672931	21	—	—
143392 2003 BT_{28}	15.7	X	141.42074	237.59539	175.92625	11.66765	0.1873801	0.23062545	2.6334873	21	3 31.1	19.7
143393 2003 BX_{28}	15.8	X	108.54911	15.98091	129.87333	8.46814	0.1076955	0.23644349	2.5901076	21	6 12.4	19.5
143394 2003 BG_{29}	14.9	X	340.72575	298.97854	305.04136	10.12062	0.0599335	0.17404750	3.1770511	21	4 11.8	19.4
143395 2003 BU_{29}	14.8	X	313.06250	212.06305	125.38490	24.21042	0.2486625	0.18824881	3.0151891	21	6 14.9	18.9
143396 2003 BP_{30}	15.7	X	190.66134	208.70120	231.57888	1.05589	0.0397604	0.18215153	3.0821055	21	6 18.7	20.1
143397 2003 BC_{32}	16.9	X	233.95970	252.83554	158.45084	3.71888	0.1423354	0.29347913	2.2425970	21	6 21.7	20.1
143398 2003 BE_{34}	15.2	X	183.48388	224.98216	284.50197	9.64664	0.0610722	0.18940352	3.0029218	21	9 1.2	19.9
143399 2003 BU_{34}	15.4	X	281.13852	12.74388	113.90506	7.29464	0.0273788	0.20287359	2.8684836	21	12 10.3	19.4
143400 2003 BX_{34}	15.6	X	145.04814	325.53251	223.96624	0.85844	0.1474848	0.18961687	3.0006688	21	9 16.3	20.4
143401 2003 BF_{37}	14.8	X	45.66397	184.79810	343.86024	5.75890	0.0331434	0.16810923	3.2514345	21	4 10.3	19.3
143402 2003 BL_{42}	14.6	X	73.55172	237.00921	284.45311	20.36541	0.0596152	0.17461419	3.1701734	21	5 9.1	19.3
143403 2003 BT_{42}	15.5	X	278.96226	175.70115	271.85165	10.63774	0.0155942	0.19513611	2.9438180	21	10 14.5	19.7
143404 2003 BD_{44}	16.9	X	174.07834	89.28675	181.27647	2.66256	0.6062815	0.35696418	1.9681262	21	—	—
143405 2003 BE_{44}	15.3	X	140.13995	326.64441	127.20144	14.71925	0.1153927	0.23640338	2.5904006	21	5 16.8	19.4
143406 2003 BV_{44}	16.9	X	9.95487	119.12218	87.79622	3.53870	0.1136795	0.27797510	2.3252275	21	3 26.6	19.1
143407 2003 BJ_{45}	15.9	X	164.73784	296.84630	172.25741	9.10112	0.1882500	0.18222356	3.0812933	21	6 29.2	21.2
143408 2003 BS_{45}	15.8	X	323.36483	109.05251	154.69048	3.79939	0.0527336	0.22290230	2.6939716	21	4 15.1	19.3
143409 2003 BQ_{46}	17.8	X	235.35636	44.15727	163.80851	8.16800	0.3513656	0.36221393	1.9490633	21	—	—
143410 2003 BJ_{47}	14.8	X	151.62444	227.00304	292.24240	28.63331	0.1339315	0.23720233	2.5845806	21	8 8.4	19.2
143411 2003 BS_{48}	15.1	X	4.10299	327.53891	220.60959	0.75812	0.2045345	0.16483009	3.2944156	21	3 3.7	18.7
143412 2003 BV_{48}	15.6	X	166.57404	188.64384	324.26228	3.40403	0.1677605	0.18515362	3.0486992	21	8 22.8	20.7
143413 2003 BF_{49}	14.6	X	27.42059	114.84554	333.83787	14.65846	0.0938721	0.15726552	3.3992285	21	—	—
143414 2003 BQ_{50}	15.7	X	61.86731	317.75884	124.94822	10.00019	0.1147109	0.21750551	2.7383516	21	1 13.3	18.9
143415 2003 BF_{51}	15.4	X	150.95913	57.37782	104.74458	3.00335	0.1554455	0.18478718	3.0527283	21	8 20.8	20.4
143416 2003 BG_{51}	16.4	X	179.82649	34.03845	99.06712	2.70896	0.0554493	0.24023667	2.5627713	21	8 15.4	19.9
143417 2003 BN_{52}	14.9	X	187.02247	118.37294	342.19420	13.14139	0.1086521	0.18252705	3.0778768	21	7 11.9	19.9
143418 2003 BA_{53}	15.2	X	285.82642	122.12023	108.47306	8.82400	0.1674485	0.21465779	2.7625169	21	1 1.3	19.4
143419 2003 BQ_{53}	15.8	X	18.17942	217.33562	249.30156	3.29105	0.0274130	0.21278540	2.7786989	21	—	—
143420 2003 BQ_{55}	15.2	X	263.00781	271.36793	152.66302	12.22921	0.0896958	0.18847380	3.0127890	21	8 17.6	19.4
143421 2003 BG_{56}	15.8	X	70.11452	348.04871	104.97502	6.06564	0.1289394	0.21975212	2.7196561	21	2 12.2	18.9
143422 2003 BJ_{56}	14.9	X	152.36676	85.77660	338.64210	8.36959	0.0954224	0.17436637	3.1731765	21	4 16.9	19.8
143423 2003 BL_{56}	15.4	X	340.07059	319.52810	123.09654	16.16658	0.1110980	0.20486867	2.8498304	21	—	—
143424 2003 BB_{57}	15.0	X	313.06455	256.02532	126.80438	11.31438	0.0261464	0.19245954	2.9710485	21	9 13.2	19.1
143425 2003 BG_{57}	15.4	X	257.08618	290.13700	131.39575	11.32474	0.0528144	0.18949022	3.0020057	21	8 13.3	19.7
143426 2003 BR_{57}	15.3	X	52.12024	241.09798	291.83715	5.11125	0.0621402	0.17368767	3.1814375	21	4 26.5	19.5
143427 2003 BF_{58}	16.2	X	276.39410	24.65912	154.13391	1.80202	0.1327966	0.26025236	2.4296270	21	—	—
143428 2003 BV_{58}	15.5	X	170.73616	358.78215	141.07554	10.35930	0.0882527	0.18502315	3.0501323	21	8 10.3	20.2
143429 2003 BW_{58}	15.3	X	1.42113	54.82698	183.75179	0.84042	0.1264535	0.17481607	3.1677324	21	5 8.1	18.9
143430 2003 BF_{60}	15.1	X	186.78935	18.16330	83.80539	6.82747	0.2700500	0.23720476	2.5845629	21	7 9.1	19.7
143431 2003 BC_{62}	15.3	X	327.11561	113.73977	95.26561	11.10902	0.0835779	0.21918494	2.7243458	21	2 4.6	19.0
143432 2003 BU_{62}	15.2	X	101.26591	60.20966	43.69358	5.79586	0.2126499	0.22618010	2.6678810	21	4 23.6	18.9
143433 2003 BX_{62}	15.9	X	198.93716	335.79458	62.48907	5.84696	0.2919269	0.23424043	2.6063224	21	5 1.8	20.6
143434 2003 BY_{62}	15.0	X	126.84821	151.82435	7.47037	9.86042	0.0342794	0.18096879	3.0955199	21	7 15.4	19.6
143435 2003 BD_{64}	15.3	X	135.98247	153.87386	303.61580	10.70236	0.1431194	0.23539377	2.5978022	21	5 11.3	19.4
143436 2003 BX_{66}	15.3	X	163.37585	77.36811	145.16849	9.96838	0.0422805	0.19680854	2.9271170	21	11 16.6	19.7
143437 2003 BY_{66}	15.0	X	109.91810	184.56372	314.09746	10.72345	0.0233513	0.17660308	3.1463271	21	5 23.0	19.7
143438 2003 BB_{67}	15.1	X	159.44394	16.11308	122.67654	8.67266	0.0200902	0.18658370	3.0331013	21	7 25.8	19.2
143439 2003 BM_{67}	15.4	X	162.93551	270.96227	105.71883	10.63225	0.1065664	0.22315723	2.6919195	21	3 3.7	19.5
143440 2003 BV_{70}	16.0	X	92.26937	85.17649	126.80753	2.12567	0.1127844	0.18202974	3.0834801	21	8 17.7	20.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
143441 2003 BM_{72}	14.8	X	211.80471	263.87714	108.51527	9.85950	0.0909908	0.17503081	3.1651409	21	4 22.2	19.8
143442 2003 BK_{73}	15.4	X	183.52464	199.62430	263.81418	14.36602	0.1263440	0.23684844	2.5871545	21	7 7.6	19.4
143443 2003 BV_{73}	15.0	X	261.00202	322.49276	74.24502	10.23034	0.0380411	0.18554217	3.0444414	21	7 19.9	19.3
143444 2003 BO_{74}	15.5	X	14.83424	38.21713	77.67168	8.89773	0.1760803	0.21431588	2.7654542	21	—	—
143445 2003 BV_{74}	15.3	X	69.78030	187.88845	8.53925	12.46051	0.0853427	0.17883391	3.1201069	21	6 25.9	19.8
143446 2003 BY_{75}	15.0	X	177.73616	178.58361	354.70883	14.37436	0.1222873	0.19151298	2.9808303	21	9 25.9	19.7
143447 2003 BO_{78}	15.3	X	200.57037	43.11867	85.50953	10.01813	0.0430302	0.19085487	2.9876787	21	9 4.9	19.8
143448 2003 BY_{78}	16.4	X	182.94262	115.17690	32.44745	3.21036	0.0642739	0.24311551	2.5424998	21	9 7.9	20.0
143449 2003 BG_{79}	14.8	X	136.22530	44.50194	101.35457	10.64056	0.0269990	0.18294181	3.0732229	21	7 6.6	19.0
143450 2003 BU_{79}	15.1	X	283.51339	241.31930	350.05252	8.48100	0.0864504	0.21630555	2.7484696	21	1 9.9	19.1
143451 2003 BR_{80}	15.9	X	345.16890	66.22728	64.78728	6.07005	0.2048087	0.20996444	2.8035322	21	—	—
143452 2003 BX_{81}	15.5	X	16.64625	302.73115	151.89055	9.08933	0.2950892	0.21121508	2.7924545	21	—	—
143453 2003 BO_{82}	15.4	X	5.62248	15.42422	96.54923	13.35770	0.0519279	0.21266048	2.7797871	21	—	—
143454 2003 BB_{83}	15.6	X	142.72586	222.17425	302.31681	1.23276	0.0381908	0.18600811	3.0393552	21	8 8.3	19.9
143455 2003 BL_{83}	14.9	X	176.94669	9.69918	107.62381	13.31525	0.0986711	0.18332228	3.0689693	21	7 20.0	19.6
143456 2003 BU_{83}	14.8	X	193.98823	156.94199	4.61350	10.64390	0.0432125	0.19173071	2.9785731	21	10 3.1	19.0
143457 2003 BM_{85}	15.2	X	251.34347	285.79988	178.16262	10.99595	0.0637203	0.19309856	2.9644903	21	9 28.1	19.3
143458 2003 BF_{86}	15.2	X	32.96361	335.48096	283.05625	11.92985	0.0633620	0.18265516	3.0764374	21	7 20.7	19.2
143459 2003 BG_{88}	15.2	X	51.43388	260.97351	306.01607	14.34219	0.1245319	0.23039755	2.6352237	21	6 18.2	18.4
143460 2003 BQ_{88}	15.5	X	108.10723	73.18821	106.39561	13.42524	0.1093013	0.23309703	2.6148386	21	7 27.4	19.2
143461 2003 BK_{89}	15.0	X	117.62929	281.76936	151.24439	19.22628	0.1625419	0.17160128	3.2071729	21	4 5.9	20.0
143462 2003 BN_{89}	14.8	X	122.69974	142.50113	290.13432	11.92879	0.1370261	0.17067309	3.2187903	21	3 28.2	19.8
143463 2003 BG_{90}	16.2	X	161.89558	24.67108	115.84291	2.85264	0.2900852	0.23636952	2.5906479	21	8 7.5	20.8
143464 2003 BB_{91}	14.6	X	94.09610	48.00019	140.13627	17.52800	0.1605256	0.17664568	3.1458212	21	7 26.0	19.2
143465 2003 CT	15.4	X	228.43365	5.37229	96.72086	14.51573	0.1307850	0.24379989	2.5377396	21	8 29.1	19.3
143466 2003 CW_{2}	15.2	X	332.91555	307.06636	150.83875	15.67884	0.1028446	0.20535466	2.8453324	21	—	—
143467 2003 CH_{3}	15.5	X	205.02894	54.83438	94.43668	8.26515	0.2082538	0.24447057	2.5330960	21	9 27.4	19.7
143468 2003 CP_{3}	14.4	X	199.20039	44.73310	13.40354	22.43211	0.1455019	0.17820089	3.1274915	21	5 21.7	19.8
143469 2003 CZ_{3}	15.2	X	54.45328	266.48755	252.18613	20.55678	0.1278257	0.22984688	2.6394310	21	4 7.2	18.6
143470 2003 CZ_{4}	15.1	X	272.87859	120.00699	322.21874	11.15857	0.0158322	0.19488194	2.9463770	21	9 29.3	19.4
143471 2003 CT_{5}	14.9	X	228.20119	128.55813	347.91637	9.30781	0.0407995	0.19245020	2.9711447	21	9 17.3	19.1
143472 2003 CJ_{6}	14.9	X	80.62159	67.80437	114.18022	6.55052	0.0738753	0.17802532	3.1295474	21	6 19.9	19.2
143473 2003 CR_{6}	16.1	X	233.11332	301.05894	106.89184	4.51719	0.2206573	0.23896036	2.5718885	21	6 11.1	20.3
143474 2003 CX_{6}	14.9	X	51.59792	214.06039	7.94340	4.76311	0.0907725	0.17791937	3.1307897	21	7 4.9	19.1
143475 2003 CB_{8}	15.9	X	136.30173	96.19714	80.90797	4.91461	0.1138015	0.23696060	2.5863380	21	8 27.1	19.8
143476 2003 CB_{9}	15.2	X	177.99093	197.78876	291.63062	9.56553	0.0582271	0.18431264	3.0579659	21	8 3.7	19.9
143477 2003 CC_{10}	16.4	X	64.43134	193.95579	229.55978	2.45943	0.1107375	0.26848017	2.3797312	21	—	—
143478 2003 CJ_{10}	15.9	X	188.99318	209.92405	270.86674	3.88290	0.2395705	0.23943442	2.5684926	21	8 2.4	20.4
143479 2003 CP_{10}	14.9	X	356.98198	313.73350	325.97548	13.00854	0.0807430	0.18020108	3.1043055	21	6 27.4	19.0
143480 2003 CU_{10}	14.9	X	187.69387	245.94116	179.39105	9.69979	0.0985552	0.17888562	3.1195055	21	5 28.8	19.9
143481 2003 CB_{11}	14.4	X	58.68061	127.62387	66.49617	18.24450	0.1131658	0.17219180	3.1998362	21	6 9.8	18.6
143482 2003 CU_{12}	15.2	X	89.93932	129.45116	84.07297	4.80001	0.1921974	0.18212206	3.0824380	21	8 28.9	19.8
143483 2003 CF_{13}	15.0	X	197.20942	72.38973	84.64808	10.03928	0.1100846	0.19096955	2.9864825	21	10 2.7	19.8
143484 2003 CY_{13}	16.1	X	6.98095	325.60827	137.46799	4.65896	0.0605677	0.21004717	2.8027960	21	—	—
143485 2003 CV_{14}	16.4	X	53.22389	355.52746	213.45293	2.17509	0.1394599	0.23038914	2.6352878	21	6 25.3	19.3
143486 2003 CJ_{15}	14.2	X	74.40338	119.40527	39.83313	19.25889	0.0952479	0.17097827	3.2149590	21	5 13.8	18.7
143487 2003 CR_{20}	18.7	X	307.86440	88.83729	177.08558	4.98915	0.7296062	0.31812866	2.1252051	21	1 3.2	23.5
143488 2003 CX_{21}	16.1	X	167.78602	153.58643	40.97100	1.56753	0.2190442	0.19147660	2.9812078	21	10 12.7	21.3
143489 2003 DS	15.2	X	99.47678	316.52808	303.67997	9.62413	0.0673268	0.19301031	2.9653938	21	10 15.3	19.7
143490 2003 DL_{3}	15.4	X	352.47175	153.44621	137.93700	3.12859	0.0598642	0.17978538	3.1090889	21	7 4.8	19.5
143491 2003 DO_{3}	15.5	X	179.14272	337.00319	152.41824	6.39641	0.0667458	0.18344455	3.0676055	21	8 5.8	20.0
143492 2003 DP_{4}	15.0	X	76.17990	199.15451	34.02590	12.08668	0.0715488	0.18323776	3.0699130	21	8 24.9	19.5
143493 2003 DF_{5}	15.6	X	16.21763	149.62489	299.76464	8.63170	0.1529336	0.21115337	2.7929985	21	—	—
143494 2003 DB_{8}	15.6	X	275.47487	269.45900	161.10465	13.34264	0.1606839	0.19110006	2.9851226	21	9 1.1	19.7
143495 2003 DW_{9}	14.9	X	47.41355	71.01317	80.66294	10.14169	0.0539994	0.16933078	3.2357784	21	3 31.6	19.4
143496 2003 DU_{10}	15.5	X	101.30291	125.63415	94.02888	2.30619	0.1953293	0.18213920	3.0822446	21	9 16.4	20.2
143497 2003 DB_{11}	14.6	X	264.97747	325.35359	335.83332	10.93351	0.0546332	0.16900854	3.2398902	21	3 20.7	19.4
143498 2003 DJ_{12}	15.2	X	331.69417	186.96592	98.34235	2.51298	0.1132690	0.17483104	3.1675516	21	5 22.3	19.2
143499 2003 DQ_{12}	14.8	X	89.70693	308.27783	176.16268	7.33272	0.0161178	0.16872990	3.2434561	21	4 13.0	19.4
143500 2003 DU_{13}	15.2	X	236.69935	110.74201	351.33593	9.94974	0.0679601	0.18949943	3.0019085	21	9 7.3	19.4
143501 2003 DY_{13}	15.0	X	193.11390	310.89893	136.58081	10.06492	0.1352318	0.18216431	3.0819613	21	6 28.6	20.0
143502 2003 DS_{14}	15.9	X	348.57503	125.54486	98.89216	1.86381	0.0711573	0.22272983	2.6953621	21	3 27.5	19.0
143503 2003 DC_{15}	15.4	X	329.67303	186.25270	348.39130	10.96959	0.0661430	0.21586601	2.7521992	21	—	—
143504 2003 DL_{17}	14.9	X	32.76049	301.92481	257.89271	4.39635	0.1038988	0.17110619	3.2133564	21	5 7.9	18.8
143505 2003 DM_{17}	15.7	X	44.43141	151.00126	311.75389	6.45633	0.0749920	0.21407552	2.7675239	21	1 11.9	19.0
143506 2003 DO_{17}	14.8	X	41.40257	240.20523	330.81440	8.52681	0.0249119	0.17426032	3.1744637	21	5 27.3	19.3
143507 2003 DL_{20}	15.7	X	256.67166	289.65341	324.63352	2.14274	0.1467697	0.21119539	2.7926280	21	1 4.1	20.2
143508 2003 DJ_{22}	15.7	X	7.20130	76.05565	308.58915	6.95400	0.0274064	0.19836632	2.9117724	21	11 22.8	19.7
143509 2003 EG_{1}	15.1	X	105.49906	5.37982	150.70511	9.96976	0.0454227	0.17853210	3.1236223	21	6 14.9	19.7
143510 2003 EN_{4}	15.8	X	147.45600	179.09404	307.24353	5.01549	0.2652085	0.23286958	2.6165410	21	7 9.7	20.3
143511 2003 EZ_{5}	15.3	X	55.28911	101.35914	137.73948	12.46923	0.0251515	0.18177067	3.0864092	21	7 22.6	19.6
143512 2003 ED_{7}	15.0	X	137.18890	108.06063	317.18350	8.38217	0.1002567	0.16962027	3.2320957	21	4 2.2	20.0
143513 2003 EH_{7}	14.8	X	320.44807	344.88156	279.64022	5.25494	0.1250337	0.16907317	3.2390645	21	4 4.4	19.2
143514 2003 EN_{8}	14.6	X	182.75730	111.70213	307.27530	12.49490	0.1366604	0.17631322	3.1497745	21	5 11.5	19.9
143515 2003 EX_{8}	14.7	X	332.85480	283.11491	321.16222	11.39743	0.0604240	0.16925376	3.2367600	21	4 1.4	19.3
143516 2003 EP_{9}	15.2	X	55.93945	14.53347	235.72490	2.63040	0.1544582	0.17915540	3.1163730	21	8 24.8	19.2
143517 2003 ES_{9}	15.8	X	279.38699	205.02728	186.85308	6.91513	0.0687096	0.23709954	2.5853276	21	7 31.8	19.3
143518 2003 ED_{10}	15.2	X	219.30924	159.87271	319.21812	11.85857	0.0819187	0.18747765	3.0234518	21	9 3.1	19.7
143519 2003 EV_{11}	15.2	X	129.88614	185.96125	331.91347	10.17130	0.1154807	0.17854152	3.1235123	21	7 24.6	20.1
143520 2003 EJ_{12}	15.0	X	170.90891	63.24233	346.47002	14.54543	0.1390227	0.22316803	2.6918327	21	4 13.8	19.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
143521 2003 EY_{12}	15.2	X	354.42142	22.87563	175.55981	13.65699	0.0991584	0.21505667	2.7591000	21	2 25.6	18.5
143522 2003 EG_{13}	15.0	X	15.10677	13.48413	186.53394	4.65078	0.0792499	0.16944987	3.2342621	21	4 11.3	19.1
143523 2003 EH_{13}	14.7	X	254.43553	197.17138	167.64727	11.23280	0.0959540	0.17853793	3.1235543	21	5 25.4	19.5
143524 2003 ET_{13}	15.0	X	65.01278	204.52716	312.97369	5.25440	0.0796708	0.17086905	3.2163288	21	4 26.9	19.3
143525 2003 EZ_{14}	15.4	X	129.76457	7.76550	190.42764	8.60368	0.0859468	0.18592368	3.0402753	21	9 6.9	20.0
143526 2003 EG_{15}	15.2	X	195.57341	195.76960	318.51372	8.18193	0.1098985	0.18843665	3.0131850	21	9 19.0	20.0
143527 2003 EN_{16}	18.6	X	276.93164	242.17790	181.71449	17.30764	0.3520250	0.46024911	1.6613995	21	8 3.7	20.3
143528 2003 ET_{18}	15.2	X	243.26054	227.37991	160.09071	11.18850	0.0474810	0.17826131	3.1267847	21	6 14.4	19.9
143529 2003 EU_{18}	14.9	X	283.12409	346.69021	342.33064	8.79574	0.0742804	0.17479408	3.1679981	21	5 12.7	19.5
143530 2003 EE_{19}	15.3	X	166.60617	335.66477	171.39761	11.02103	0.0456013	0.18347184	3.0673013	21	8 12.8	20.0
143531 2003 EC_{20}	15.5	X	157.58660	47.99895	173.28114	11.77473	0.0547937	0.19275695	2.9679917	21	11 7.5	20.0
143532 2003 EK_{20}	15.2	X	22.25642	85.73161	164.40529	5.19787	0.1919757	0.17431187	3.1738378	21	7 4.7	18.8
143533 2003 ER_{20}	15.5	X	218.67141	70.02103	357.40312	14.61573	0.3135652	0.23767729	2.5811362	21	6 17.6	20.4
143534 2003 EC_{21}	14.6	X	145.57094	302.23079	176.34910	22.52088	0.2021201	0.17741202	3.1367556	21	6 25.3	20.2
143535 2003 EZ_{22}	14.6	X	8.48649	150.33116	99.18544	2.82261	0.1092199	0.17264126	3.1942801	21	6 4.4	18.6
143536 2003 EZ_{23}	15.3	X	75.70155	146.00502	47.01115	2.09143	0.1243084	0.17512097	3.1640544	21	7 5.2	19.5
143537 2003 EV_{24}	15.6	X	289.49486	126.67221	160.39080	12.65407	0.0255049	0.22151047	2.7052446	21	4 5.8	19.4
143538 2003 EG_{25}	14.9	X	133.53883	49.89956	133.62496	10.39245	0.0328485	0.18236128	3.0797417	21	8 21.9	19.4
143539 2003 EN_{25}	15.2	X	169.28110	80.31226	18.75240	10.09132	0.0485318	0.17639105	3.1488479	21	6 17.1	20.0
143540 2003 ED_{27}	15.3	X	321.65126	229.81873	166.95821	9.72254	0.0250700	0.19070895	2.9892025	21	10 11.2	19.4
143541 2003 EL_{27}	14.4	X	140.62832	121.68514	7.10718	22.45654	0.0389577	0.17572363	3.1568160	21	6 20.3	19.4
143542 2003 EC_{30}	15.3	X	42.97460	158.81032	40.87403	1.42476	0.1220068	0.17289941	3.1910997	21	5 26.4	19.1
143543 2003 EW_{30}	15.5	X	109.81554	93.61303	132.11652	2.30563	0.1451453	0.18513145	3.0489426	21	9 27.3	20.2
143544 2003 EX_{30}	15.1	X	232.34926	269.27803	160.02415	9.79446	0.0789355	0.18246863	3.0785336	21	7 19.1	19.7
143545 2003 EA_{31}	15.1	X	206.81431	298.72394	168.52708	17.64676	0.1831358	0.18490997	3.0513767	21	7 31.4	20.4
143546 2003 EG_{31}	15.4	X	93.14269	293.01521	232.65056	1.26408	0.1739362	0.17446216	3.1720149	21	6 28.9	19.9
143547 2003 ES_{31}	15.4	X	143.15470	278.75695	284.98613	6.50031	0.1435825	0.18844566	3.0130889	21	9 28.3	20.4
143548 2003 ER_{35}	16.1	X	114.97203	255.38652	257.11314	2.28289	0.1637414	0.22931571	2.6435053	21	7 4.9	20.1
143549 2003 EU_{36}	15.4	X	352.22236	66.66294	81.32930	14.23432	0.1234081	0.21325592	2.7746103	21	—	—
143550 2003 EC_{37}	14.8	X	149.20772	9.45351	96.49054	14.58110	0.1492641	0.23145983	2.6271546	21	6 10.1	18.9
143551 2003 EH_{37}	14.7	X	357.99645	220.29715	56.72599	17.94035	0.1841662	0.17590435	3.1546535	21	6 20.2	18.3
143552 2003 ET_{37}	15.3	X	248.89275	271.89608	167.59590	8.04432	0.1900914	0.18802224	3.0176109	21	8 6.6	19.9
143553 2003 EG_{38}	14.3	X	187.82366	152.43761	303.19282	14.25571	0.1442278	0.18125019	3.0923151	21	7 4.7	19.4
143554 2003 ED_{39}	15.6	X	222.02014	359.91011	132.68061	13.28152	0.1071824	0.24404206	2.5360604	21	10 3.5	19.4
143555 2003 EH_{39}	15.6	X	112.03100	19.78194	79.97963	12.84477	0.1555300	0.22436842	2.6822231	21	4 27.8	19.5
143556 2003 ED_{40}	15.6	X	165.25684	288.17070	162.33234	5.66953	0.1185733	0.17638755	3.1488896	21	6 6.1	20.6
143557 2003 ER_{40}	14.6	X	182.55204	339.83027	163.04189	17.97350	0.1407327	0.18031562	3.1029908	21	8 24.2	19.6
143558 2003 ET_{42}	14.7	X	202.84452	80.02063	34.46937	17.25812	0.0909724	0.18139908	3.0906228	21	8 21.0	19.7
143559 2003 ET_{43}	16.8	X	32.54493	277.36140	207.91451	3.45484	0.1501242	0.26794225	2.3829152	21	1 2.9	19.0
143560 2003 EV_{44}	15.1	X	253.80903	217.88126	191.75480	8.97502	0.1414440	0.18406540	3.0607036	21	7 10.9	19.8
143561 2003 EP_{45}	16.3	X	15.99070	295.79912	236.64169	2.40076	0.1309920	0.21720733	2.7408571	21	2 23.9	19.4
143562 2003 EZ_{45}	15.4	X	171.27048	154.94016	303.05381	5.74115	0.3582867	0.23363100	2.6108529	21	6 24.0	20.5
143563 2003 EQ_{46}	15.1	X	19.03413	289.48039	283.64311	12.39459	0.1554036	0.22320771	2.6915137	21	4 23.7	18.2
143564 2003 ER_{47}	15.0	X	115.49399	345.87693	227.58255	10.62540	0.1725873	0.18318178	3.0705384	21	9 15.5	20.0
143565 2003 EW_{48}	15.6	X	55.49246	170.53075	54.84585	2.01762	0.1623210	0.17600416	3.1534607	21	7 25.4	19.5
143566 2003 EP_{51}	14.9	X	14.20579	203.21614	60.76732	2.44192	0.1457079	0.17500040	3.1655075	21	7 5.5	18.4
143567 2003 ET_{51}	14.8	X	59.69025	203.17818	357.95096	3.18905	0.1106492	0.17295609	3.1904026	21	6 21.4	19.0
143568 2003 EX_{52}	14.9	X	70.54319	189.62645	80.05832	11.37470	0.0266454	0.18619346	3.0373379	21	9 27.3	19.3
143569 2003 EB_{53}	15.0	X	75.43301	234.51181	283.07043	11.85536	0.2029317	0.22390904	2.6858905	21	5 28.6	18.4
143570 2003 ER_{53}	15.4	X	138.13463	59.57759	146.80286	14.04915	0.2334641	0.23632678	2.5909603	21	10 11.3	20.0
143571 2003 EX_{57}	15.2	X	329.53502	98.54280	111.24241	13.85723	0.1597130	0.21188242	2.7865880	21	1 28.9	18.7
143572 2003 ET_{58}	14.7	X	163.89083	125.34307	21.93022	18.15638	0.1434878	0.17962591	3.1109287	21	8 22.0	20.0
143573 2003 EU_{58}	15.0	X	193.83885	259.39971	159.81225	24.77444	0.1082753	0.17542371	3.1604132	21	5 30.5	20.4
143574 2003 EC_{59}	14.9	X	151.58435	233.11334	267.61463	20.91862	0.0834657	0.23585752	2.5943958	21	7 18.1	18.9
143575 2003 EB_{60}	15.3	X	228.04536	118.77630	309.54884	9.74167	0.0554530	0.18050122	3.1008633	21	7 17.2	19.7
143576 2003 FS_{1}	15.3	X	79.40332	107.53225	110.75504	28.81452	0.1811182	0.23208012	2.6224713	21	8 27.0	19.4
143577 2003 FG_{2}	15.3	X	76.27033	37.97205	174.27692	6.67003	0.0526524	0.17807657	3.1289469	21	7 18.8	19.7
143578 2003 FA_{5}	14.4	X	30.60975	30.64069	198.22171	15.72571	0.1621200	0.17198490	3.2024019	21	6 17.9	18.5
143579 Dérimiksa	15.8	X	299.59671	340.30725	290.52804	4.19951	0.0778415	0.21753654	2.7380912	21	3 16.4	19.7
143580 2003 FO_{9}	15.2	X	21.74226	307.31459	311.46654	12.09729	0.2244775	0.22817023	2.6523453	21	7 23.2	17.5
143581 2003 FV_{12}	15.0	X	170.75134	3.45909	181.06850	7.57339	0.0434197	0.18739786	3.0243100	21	10 5.9	19.3
143582 2003 FQ_{13}	15.1	X	180.65241	282.41065	186.03682	8.89548	0.1362814	0.17996190	3.1070555	21	7 11.1	20.2
143583 2003 FY_{13}	14.7	X	348.96644	96.61200	192.19940	10.83969	0.0460860	0.17614208	3.1518144	21	6 26.2	19.1
143584 2003 FS_{23}	14.7	X	350.87927	127.78485	166.29068	5.48501	0.1087585	0.17658091	3.1465905	21	7 4.2	18.7
143585 2003 FF_{24}	15.0	X	253.92234	70.59600	357.96094	11.13543	0.0720380	0.18383706	3.0632375	21	8 18.4	19.4
143586 2003 FD_{26}	15.5	X	103.14584	73.21443	152.41258	1.79453	0.1341284	0.18334340	3.0687337	21	9 18.5	20.1
143587 2003 FY_{28}	15.5	X	41.62040	14.90418	149.60951	13.01744	0.0910394	0.21788987	2.7351303	21	4 2.7	18.8
143588 2003 FN_{45}	15.3	X	71.72694	88.69176	156.04581	1.68504	0.1283028	0.18025374	3.1037008	21	9 5.1	19.5
143589 2003 FJ_{46}	16.4	X	171.90231	126.62696	14.05219	4.45657	0.1791988	0.23612950	2.5924032	21	8 16.3	20.6
143590 2003 FU_{50}	15.0	X	214.69338	234.90849	193.59673	18.49639	0.0799405	0.17845156	3.1245620	21	6 27.8	20.1
143591 2003 FF_{51}	15.0	X	41.06939	105.97048	97.80636	2.95278	0.0786076	0.17248534	3.1962047	21	5 24.8	19.2
143592 2003 FS_{52}	15.3	X	119.57901	98.34386	31.46908	4.93848	0.1827414	0.17283068	3.1919456	21	6 13.3	20.3
143593 2003 FG_{61}	15.0	X	146.40637	331.47461	130.40124	5.87080	0.0489647	0.17237984	3.1975087	21	5 27.5	19.7
143594 2003 FD_{62}	14.9	X	258.27772	7.46172	17.53023	14.14684	0.1045869	0.23075611	2.6324931	21	6 19.0	18.9
143595 2003 FL_{62}	14.8	X	237.59552	276.72205	146.09594	10.92909	0.0646381	0.17989132	3.1078680	21	7 18.9	19.4
143596 2003 FN_{62}	15.3	X	142.52140	82.31026	127.54389	2.57805	0.0682564	0.18664269	3.0324621	21	10 6.6	19.8
143597 2003 FZ_{65}	16.7	X	208.29164	176.48336	317.50495	3.01800	0.1863439	0.24108744	2.5567386	21	9 7.3	20.7
143598 2003 FV_{75}	14.4	X	336.49748	26.71004	323.42020	14.65667	0.1085509	0.23795210	2.5791485	21	8 28.6	17.2
143599 2003 FM_{78}	16.6	X	133.16768	89.71748	177.16069	6.52073	0.1340985	0.29896541	2.2150766	21	12 21.9	20.0
143600 2003 FW_{78}	16.0	X	51.24384	149.79287	71.48426	3.13331	0.1339954	0.22815576	2.6524575	21	7 9.4	19.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
143601 2003 FZ_{78}	15.3	X	78.78466	118.02763	103.43243	6.39809	0.0896674	0.17856028	3.1232937	21	8 10.8	19.7
143602 2003 FW_{81}	14.8	X	112.61071	148.77088	136.42768	11.18022	0.1264117	0.19234467	2.9722314	21	12 9.4	19.6
143603 2003 FM_{89}	15.1	X	91.05759	205.22152	307.51284	3.59291	0.0985543	0.17032295	3.2232000	21	5 29.9	19.6
143604 2003 FK_{91}	16.2	X	166.82453	197.77956	304.69348	3.82891	0.1483935	0.23453515	2.6041386	21	8 11.6	20.4
143605 2003 FP_{91}	14.4	X	86.52656	347.78017	174.76563	18.90572	0.0703930	0.16996249	3.2277557	21	6 4.2	19.3
143606 2003 FZ_{92}	14.8	X	230.51368	33.67142	42.01695	17.32025	0.0868034	0.17920975	3.1157430	21	7 30.6	19.8
143607 2003 FD_{94}	14.5	X	116.43941	97.09873	41.29325	22.79298	0.0252659	0.17023864	3.2242642	21	5 28.7	19.3
143608 2003 FD_{112}	15.2	X	160.31119	291.16569	209.00964	5.50318	0.0078677	0.17898849	3.1183102	21	7 26.3	19.6
143609 2003 FL_{114}	14.4	X	95.27704	315.24859	218.43787	13.38521	0.2164633	0.17222427	3.1994339	21	7 13.7	19.5
143610 2003 FA_{117}	15.7	X	126.20666	348.86849	188.61498	2.84516	0.1657015	0.17776626	3.1325871	21	8 15.2	20.6
143611 2003 FP_{117}	15.3	X	12.17421	38.09216	101.50058	6.16355	0.1153711	0.21308492	2.7760944	21	1 7.6	18.3
143612 2003 FQ_{120}	16.2	X	341.93933	74.75333	213.24613	1.45990	0.2185011	0.27979159	2.3151526	21	5 23.1	17.8
143613 2003 FD_{121}	15.3	X	156.29268	95.52204	97.40592	2.61372	0.0614165	0.18703845	3.0281830	21	9 30.9	19.8
143614 2003 GO_{2}	15.2	X	12.47660	245.51555	349.25055	4.44859	0.0898304	0.16929787	3.2361978	21	5 20.7	19.3
143615 2003 GK_{4}	16.8	X	335.71756	144.52364	354.74514	0.19805	0.1551857	0.26018033	2.4300754	21	—	—
143616 2003 GA_{11}	15.5	X	139.94291	186.36256	8.42229	5.06312	0.1118258	0.18503565	3.0499949	21	9 17.1	20.2
143617 2003 GH_{12}	15.0	X	243.03703	231.87525	192.39601	9.03580	0.1160174	0.18227234	3.0807434	21	7 19.9	19.7
143618 2003 GQ_{28}	15.0	X	229.19070	250.23058	179.89076	10.16606	0.0320722	0.17794633	3.1304734	21	7 20.7	19.7
143619 2003 GC_{49}	15.9	X	171.11304	38.57016	140.99833	6.65991	0.2088414	0.23786775	2.5797583	21	10 3.2	20.3
143620 2003 GM_{50}	14.6	X	86.10596	122.28018	72.82369	16.92260	0.0597134	0.17410049	3.1764063	21	7 11.9	19.2
143621 2003 GE_{55}	14.5	X	58.46582	145.54562	135.96322	3.70507	0.1992239	0.12498869	3.9617668	21	10 9.5	19.9
143622 Robertbloch	16.7	X	63.57904	153.60734	55.26615	7.14416	0.0575039	0.27958943	2.3162684	21	6 28.4	19.3
143623 2003 HJ_{3}	15.7	X	69.59876	350.99890	164.49075	1.99119	0.0496834	0.21996455	2.7179048	21	4 25.1	19.2
143624 2003 HM_{16}	15.9	X	194.10380	47.03711	195.94904	35.59453	0.5762264	0.35734062	1.9667438	21	12 18.9	20.5
143625 2003 HJ_{26}	14.5	X	141.16720	330.44148	173.89696	19.48753	0.1922156	0.17295859	3.1903717	21	7 20.1	20.0
143626 2003 HU_{27}	15.6	X	148.39549	307.97987	234.58227	4.92714	0.1074948	0.18151124	3.0893495	21	9 7.2	20.5
143627 2003 HJ_{28}	14.9	X	168.83137	267.40659	225.91642	14.74502	0.2214661	0.17825629	3.1268435	21	7 27.9	20.5
143628 2003 HG_{31}	17.3	X	222.65489	218.21291	44.65007	1.89679	0.1516973	0.25542785	2.4601252	21	—	—
143629 2003 HS_{32}	14.7	X	75.98663	167.97056	86.58933	25.85686	0.1722364	0.18215177	3.0821028	21	10 13.6	19.8
143630 2003 HA_{33}	16.6	X	113.77208	161.68676	153.77593	1.81554	0.2142777	0.29989087	2.2105171	21	—	—
143631 2003 HS_{35}	14.4	X	302.89698	180.95293	51.48713	18.09454	0.0475313	0.15691864	3.4042362	21	2 26.3	19.5
143632 2003 HA_{37}	15.2	X	225.47206	298.90029	234.23073	13.23405	0.2063012	0.19310700	2.9644039	21	11 4.4	19.8
143633 2003 HX_{53}	15.8	X	70.92770	40.15079	180.34334	0.77275	0.1100879	0.17497966	3.1657577	21	7 31.8	20.2
143634 2003 HR_{54}	15.2	X	161.29297	305.18647	238.84211	5.64396	0.0925511	0.18409850	3.0603368	21	9 21.6	20.1
143635 2003 HU_{54}	15.0	X	209.17197	274.48561	198.63252	9.03331	0.1450871	0.18152760	3.0891639	21	8 11.1	20.1
143636 2003 KO_{19}	14.3	X	122.72577	16.80106	117.90535	18.61463	0.1996615	0.17248399	3.1962214	21	6 25.5	19.5
143637 2003 LP_{6}	16.4	X	275.05158	260.64640	144.54326	43.57499	0.8836583	0.42711614	1.7462459	21	5 28.1	21.4
143638 2003 MU_{8}	15.2	X	113.60744	41.86417	279.53006	6.09566	0.2768901	0.18309121	3.0715509	21	—	—
143639 2003 MK_{9}	16.5	X	232.76663	149.31451	211.92911	23.00063	0.1221670	0.37543369	1.9030370	21	4 4.1	19.1
143640 2003 NR_{4}	16.9	X	263.92655	129.20874	207.32419	20.15863	0.1177387	0.37638164	1.8998403	21	4 6.3	18.9
143641 Sapello	17.2	X	269.67960	153.03760	152.47108	4.01851	0.2006731	0.31003097	2.1620513	21	3 2.1	20.3
143642 2003 NV_{6}	16.1	X	327.68815	276.89354	59.46038	3.46147	0.1757398	0.27355859	2.3501873	21	7 19.6	18.0
143643 2003 NP_{7}	18.2	X	220.71578	323.50457	285.24161	11.11081	0.4169319	0.30602208	2.1808922	21	—	—
143644 2003 OE_{3}	16.5	X	1.38910	4.36964	275.53368	1.68562	0.1946132	0.26921174	2.3754180	21	7 3.3	18.1
143645 2003 OP_{4}	14.2	X	145.00412	286.36394	293.64788	24.70535	0.2221564	0.17869358	3.1217402	21	10 11.7	20.1
143646 2003 OO_{7}	16.4	X	333.31394	65.39333	220.20167	6.01092	0.1124973	0.26854938	2.3793223	21	5 18.3	18.7
143647 2003 OZ_{13}	16.6	X	195.45150	159.36214	157.18606	23.05344	0.0762899	0.36065992	1.9546580	21	—	—
143648 2003 QP_{17}	14.4	X	127.96954	265.40744	342.75920	15.09089	0.1364312	0.17501112	3.1653783	21	11 1.1	19.7
143649 2003 QQ_{47}	17.4	X	208.08260	104.96987	0.99059	62.10058	0.1869624	0.87160856	1.0853964	21	9 24.3	13.7
143650 2003 QZ_{61}	15.9	X	95.19124	308.38381	24.21552	6.18258	0.3029926	0.23314652	2.6144686	21	—	—
143651 2003 QO_{104}	16.0	X	316.32477	183.55556	58.21657	11.60201	0.5240708	0.31578729	2.1356969	21	—	—
143652 2003 RW_{12}	16.5	X	131.22478	188.64381	163.72483	3.59439	0.1817541	0.24169003	2.5524871	21	—	—
143653 2003 RT_{13}	16.9	X	59.83903	333.99826	196.21184	21.30896	0.0477637	0.36898020	1.9251623	21	4 12.5	18.2
143654 2003 SH_{11}	15.9	X	72.05853	227.44764	153.75445	24.67242	0.2156940	0.28785978	2.2716882	21	—	—
143655 2003 SE_{18}	17.0	X	233.32291	163.93657	179.62414	22.12067	0.0891652	0.36819293	1.9279056	21	3 13.3	19.3
143656 2003 SJ_{39}	16.4	X	219.32065	303.68117	337.55576	3.13126	0.0564939	0.24331499	2.5411100	21	—	—
143657 2003 SA_{45}	17.1	X	199.63253	331.85672	341.10181	2.49088	0.1458834	0.30187743	2.2008087	21	1 7.5	20.1
143658 2003 SB_{45}	14.8	X	67.22760	138.85674	279.14222	0.29543	0.2535701	0.12551274	3.9507315	21	2 1.1	19.7
143659 2003 SR_{55}	17.3	X	216.91723	96.62837	232.43723	2.45221	0.1670054	0.30720126	2.1753078	21	2 11.9	20.7
143660 2003 SJ_{70}	17.7	X	221.78123	330.36550	41.30443	1.62753	0.1905983	0.31228382	2.1516406	21	4 12.9	21.0
143661 2003 SM_{73}	17.7	X	230.58519	26.10362	359.00110	2.30782	0.1181861	0.31582589	2.1355229	21	5 12.4	20.6
143662 2003 SP_{84}	16.7	X	136.00110	215.33178	195.94358	22.42250	0.0876195	0.36010412	1.9566688	21	2 10.2	19.2
143663 2003 SW_{88}	16.9	X	32.47476	139.44970	9.76168	19.53195	0.0656185	0.36086119	1.9539312	21	1 26.9	19.1
143664 2003 SM_{93}	15.4	X	221.82303	7.63515	292.57312	1.09484	0.0580512	0.18889737	3.0082836	21	1 31.3	19.9
143665 2003 SP_{98}	16.0	X	339.54443	345.43944	297.13166	5.87871	0.0943036	0.26298469	2.4127690	21	5 26.0	18.5
143666 2003 SR_{109}	16.3	X	99.41981	73.29360	332.61649	6.19432	0.0897090	0.29696797	2.2249981	21	—	—
143667 2003 SQ_{125}	15.6	X	317.90359	243.35067	171.80160	8.19932	0.0676653	0.22150967	2.7052512	21	11 1.4	19.0
143668 2003 SF_{128}	16.9	X	145.28990	231.42452	178.24206	1.86879	0.1343686	0.30377593	2.1916296	21	3 14.9	19.7
143669 2003 SO_{140}	16.6	X	16.14566	345.97942	219.78240	20.23007	0.0443314	0.36514242	1.9386282	21	3 15.8	18.8
143670 2003 SJ_{145}	16.6	X	115.52471	75.11699	351.77049	6.24315	0.0665635	0.30095113	2.2053223	21	2 18.6	18.9
143671 2003 SW_{151}	14.7	X	255.21480	109.41873	36.00019	14.84192	0.0917217	0.17228737	3.1986526	21	11 13.6	19.2
143672 2003 SN_{155}	16.9	X	190.89420	298.67622	3.02423	6.41204	0.1534687	0.29821388	2.2187965	21	—	—
143673 2003 SO_{195}	16.0	X	183.12155	182.34063	341.10731	9.26000	0.0789584	0.27134945	2.3629258	21	9 26.9	19.3
143674 2003 SB_{210}	16.5	X	92.42181	41.21190	320.66688	3.57724	0.0862322	0.28885275	2.2664791	21	—	—
143675 2003 SJ_{214}	15.9	X	273.92245	217.37002	139.71194	2.84665	0.0808864	0.20370699	2.8606547	21	6 7.3	19.8
143676 2003 SK_{214}	16.9	X	99.70873	247.66941	170.72800	3.89810	0.1608689	0.29592933	2.2302012	21	1 26.8	18.9
143677 2003 SW_{220}	16.6	X	145.96056	10.59501	50.96725	5.81368	0.0906937	0.30333975	2.1937300	21	3 29.4	19.3
143678 2003 SA_{224}	16.3	X	98.73461	141.91682	2.80029	13.86181	0.3289373	0.46530040	1.6493536	21	6 25.3	18.3
143679 2003 SK_{236}	15.9	X	129.29233	148.83089	323.63119	1.08572	0.0086088	0.20363403	2.8613379	21	5 12.2	19.8
143680 2003 SU_{242}	16.6	X	79.84934	67.72683	157.28348	0.89006	0.1638855	0.26643579	2.3918889	21	8 31.8	19.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
143681 2003 SX_{255}	17.2	X	233.20753	121.29460	188.02131	5.11502	0.1729076	0.30508467	2.1853573	21	2 1.8	20.7
143682 2003 SQ_{266}	16.7	X	294.75347	162.81799	139.45823	1.87106	0.1949986	0.25966992	2.4332587	21	3 31.9	19.9
143683 2003 SV_{280}	16.5	X	343.95653	183.12264	350.04441	6.32847	0.1072018	0.29960096	2.2119429	21	—	—
143684 2003 SS_{293}	17.1	X	227.53316	298.43106	348.28250	4.67707	0.1712423	0.30262212	2.1971967	21	1 1.7	20.5
143685 2003 SS_{317}	7.8	X	16.74127	197.45084	177.56300	5.89746	0.2394351	0.00444860	36.6145325	21	11 7.2	22.3
143686 2003 TW_{11}	16.5	X	337.47363	234.71576	194.10540	6.04205	0.0940518	0.28031278	2.3122819	21	—	—
143687 2003 TP_{18}	16.6	X	58.69410	193.26612	208.57422	4.70774	0.1108811	0.28838448	2.2689319	21	—	—
143688 2003 TH_{30}	18.0	X	217.45836	208.97364	157.95252	1.81244	0.1076777	0.31010018	2.1617296	21	4 4.6	21.0
143689 2003 UQ_{9}	16.6	X	45.93812	63.45787	41.38759	6.41521	0.1044093	0.29535571	2.2330878	21	—	—
143690 2003 UK_{13}	17.6	X	151.48999	244.68389	217.58115	4.30311	0.0669699	0.31272639	2.1496101	21	5 28.3	20.1
143691 2003 UQ_{15}	16.6	X	321.92572	256.57027	203.18482	5.07423	0.1043933	0.28010508	2.3134248	21	—	—
143692 2003 UF_{20}	16.4	X	213.52305	238.07281	96.56781	6.21378	0.2028598	0.30413821	2.1898888	21	2 19.9	19.9
143693 2003 UM_{21}	16.8	X	84.01376	266.14335	121.34293	7.36888	0.0993821	0.28847675	2.2684480	21	—	—
143694 2003 UK_{24}	17.2	X	15.53169	90.15259	166.09076	1.54085	0.0712459	0.31594166	2.1350012	21	6 20.2	19.0
143695 2003 UQ_{40}	16.6	X	51.21876	207.61791	304.51500	1.10792	0.1229629	0.30166510	2.2018413	21	3 14.7	18.4
143696 2003 UU_{40}	16.9	X	147.14308	3.35056	13.24196	4.05808	0.1589539	0.29866791	2.2165473	21	2 6.1	19.7
143697 2003 UP_{44}	17.5	X	290.35708	245.13494	31.89140	2.90445	0.1700652	0.31015894	2.1614566	21	2 18.2	20.3
143698 2003 UB_{55}	16.4	X	8.36684	128.60898	283.81680	4.67064	0.1730409	0.28087914	2.3091726	21	—	—
143699 2003 UN_{55}	16.6	X	155.84240	133.92512	304.84051	5.18580	0.0430715	0.30752527	2.1737796	21	4 24.4	19.4
143700 2003 UF_{57}	17.0	X	177.27181	105.85959	258.89857	1.27229	0.1408829	0.30205590	2.1999417	21	2 19.1	20.0
143701 2003 UV_{79}	15.3	X	174.50691	88.56650	266.69038	1.60229	0.1623848	0.18907640	3.0063843	21	2 20.6	20.2
143702 2003 UG_{91}	17.3	X	86.81996	307.79671	112.72668	3.64450	0.1138681	0.29551170	2.2323019	21	1 1.0	19.2
143703 2003 UQ_{101}	16.7	X	166.87142	324.46486	53.18982	4.66959	0.1478235	0.30318466	2.1944780	21	2 28.5	19.7
143704 2003 UV_{109}	16.8	X	193.79159	336.60293	331.73375	4.74010	0.1477419	0.29672717	2.2262017	21	—	—
143705 2003 UR_{115}	16.2	X	101.81507	295.86899	344.77661	6.69119	0.1108150	0.27828038	2.3235267	21	12 2.3	19.6
143706 2003 UG_{117}	16.9	X	302.97970	221.52243	95.16224	3.35751	0.1542355	0.31622885	2.1337083	21	5 3.7	19.2
143707 2003 UY_{117}	5.7	X	14.56426	112.18342	265.13748	7.54784	0.4189726	0.00236372	55.8133947	21	11 17.3	21.1
143708 2003 UV_{126}	15.1	X	247.71607	261.43472	30.14258	6.16529	0.0715242	0.19035255	2.9929325	21	2 19.3	19.6
143709 2003 UM_{132}	17.0	X	184.47241	9.63510	8.00665	8.20887	0.1396957	0.30386268	2.1912124	21	3 16.9	20.2
143710 2003 UG_{134}	16.8	X	61.23092	91.88903	297.24990	4.94124	0.1258100	0.28768799	2.2725925	21	—	—
143711 2003 UR_{136}	15.8	X	288.50704	305.07598	23.31664	2.14841	0.0641343	0.20348842	2.8627027	21	5 21.3	19.7
143712 2003 UD_{142}	15.3	X	17.60877	112.07176	60.00946	12.53846	0.0534153	0.19264327	2.9691592	21	3 13.7	19.4
143713 2003 UF_{143}	16.2	X	123.48736	140.66236	254.50277	4.84380	0.0907976	0.29699272	2.2248745	21	1 18.5	18.6
143714 2003 UL_{158}	16.9	X	256.82894	85.20469	229.10971	5.42289	0.1396796	0.30681292	2.1771430	21	3 3.1	20.1
143715 2003 UT_{158}	17.0	X	77.21795	331.67287	217.95529	1.76658	0.0441728	0.31249527	2.1506698	21	6 17.6	19.1
143716 2003 UM_{164}	16.4	X	38.15118	331.95869	66.88097	5.00846	0.0652909	0.28390688	2.2927257	21	—	—
143717 2003 UF_{165}	17.1	X	137.96989	161.02311	232.00383	1.33431	0.1159366	0.29966170	2.2116440	21	2 8.5	19.7
143718 2003 UX_{167}	16.7	X	39.02391	337.51174	276.57656	5.67444	0.0978064	0.31884678	2.1220129	21	8 2.6	18.7
143719 2003 UU_{177}	16.0	X	30.13032	270.36282	33.31884	6.41945	0.0525288	0.21598098	2.7512224	21	9 19.9	19.5
143720 2003 US_{182}	16.7	X	132.23545	230.06872	323.46664	0.42891	0.1313473	0.26750277	2.3855244	21	9 13.8	20.0
143721 2003 UB_{184}	16.9	X	76.51426	59.44416	69.84680	2.56381	0.0905350	0.30317056	2.1945461	21	3 24.5	19.0
143722 2003 UM_{188}	16.7	X	73.53396	205.76030	248.97910	4.36810	0.1197932	0.29721193	2.2237803	21	1 26.9	18.6
143723 2003 UW_{199}	15.2	X	128.93606	219.64753	117.08085	2.38477	0.1390037	0.18071437	3.0984246	21	—	—
143724 2003 UJ_{200}	15.7	X	288.97188	167.38438	147.01343	2.60203	0.0346237	0.20070193	2.8891384	21	5 9.5	19.6
143725 2003 UX_{200}	16.4	X	187.16518	32.21798	181.83233	2.13954	0.1695087	0.28057363	2.3108485	21	12 3.3	19.7
143726 2003 UG_{201}	16.7	X	216.86221	297.33814	173.86698	2.68808	0.0471709	0.26711573	2.3878282	21	9 1.9	19.9
143727 2003 UB_{204}	16.5	X	29.51013	87.32839	46.94364	7.10541	0.0299480	0.29763154	2.2216898	21	1 11.7	19.0
143728 2003 UE_{206}	16.4	X	37.06977	202.02741	251.50168	6.80201	0.0532830	0.29135738	2.2534713	21	—	—
143729 2003 UX_{209}	16.5	X	344.20866	64.19412	21.44537	7.28517	0.0588704	0.28225640	2.3016548	21	—	—
143730 2003 UJ_{211}	16.4	X	190.44594	2.05568	235.28001	4.95163	0.1225840	0.28264554	2.2995417	21	—	—
143731 2003 UH_{213}	16.6	X	282.69372	264.11077	206.31298	6.38408	0.0737120	0.27531161	2.3402003	21	12 1.7	19.3
143732 2003 UD_{217}	17.2	X	141.50965	235.48405	172.98842	4.43735	0.0963655	0.30286121	2.1960401	21	3 3.2	19.9
143733 2003 UB_{220}	15.3	X	71.71379	348.45142	66.04471	26.92669	0.2576989	0.28913729	2.2649919	21	—	—
143734 2003 UK_{222}	16.6	X	232.29504	71.11650	264.69759	4.07206	0.1874751	0.30673547	2.1775094	21	3 5.2	20.1
143735 2003 US_{223}	16.5	X	6.79972	81.06081	19.51501	5.55847	0.1077660	0.28596983	2.2816862	21	—	—
143736 2003 UM_{226}	16.8	X	90.84271	246.02362	273.40313	3.30080	0.0385806	0.31062785	2.1592808	21	5 21.6	19.1
143737 2003 UJ_{236}	15.8	X	202.21260	280.09613	17.73689	19.80545	0.1061352	0.35625426	1.9707400	21	—	—
143738 2003 UK_{239}	16.1	X	125.17525	202.13277	10.93588	4.72155	0.1011970	0.21565503	2.7539940	21	9 25.9	20.1
143739 2003 UB_{246}	16.5	X	70.84276	35.23630	59.41947	6.04142	0.1203753	0.29556271	2.2320451	21	1 25.8	18.5
143740 2003 UF_{247}	17.1	X	339.97978	275.76999	175.71451	1.97124	0.1254006	0.28102727	2.3083611	21	—	—
143741 2003 UX_{248}	17.0	X	149.93107	346.15018	284.33680	3.26457	0.1364279	0.28677241	2.2774270	21	—	—
143742 2003 UZ_{250}	16.9	X	55.08992	36.77862	15.81894	6.71451	0.1053852	0.28797939	2.2710591	21	—	—
143743 2003 UJ_{253}	16.9	X	226.93487	325.62730	60.03460	1.18065	0.0764547	0.31101510	2.1574880	21	5 12.8	19.6
143744 2003 UD_{258}	16.3	X	34.23033	106.50019	98.55893	4.40974	0.1506099	0.30817080	2.1707429	21	5 9.9	17.7
143745 2003 UC_{259}	16.7	X	215.36864	178.54735	306.31000	1.67380	0.1053459	0.26568308	2.3964044	21	9 11.9	20.1
143746 2003 UD_{259}	16.5	X	222.92941	286.19446	247.06293	6.01425	0.0469313	0.27568399	2.3380925	21	12 5.4	19.3
143747 2003 UQ_{259}	16.3	X	339.78016	327.93287	79.66725	8.11766	0.1104698	0.27454362	2.3445625	21	12 8.1	18.5
143748 2003 UA_{262}	16.1	X	70.97106	145.69480	260.79479	4.02106	0.0831223	0.28906387	2.2653753	21	—	—
143749 2003 UR_{266}	17.4	X	236.75162	192.37111	165.00539	1.65858	0.2047939	0.31086653	2.1581754	21	4 7.6	20.5
143750 2003 UJ_{288}	15.7	X	29.67725	237.31814	237.86180	1.81516	0.0889482	0.18303986	3.0721253	21	1 12.8	19.6
143751 2003 US_{292}	8.7	X	22.70123	346.61193	29.15826	7.64163	0.2558156	0.00358260	42.2997110	21	11 16.4	23.9
143752 2003 VJ_{1}	15.7	X	56.92183	347.73212	25.58990	27.55456	0.2394225	0.28209112	2.3025537	21	—	—
143753 2003 VN_{8}	16.0	X	134.68278	348.60474	205.00570	3.32553	0.0643686	0.31976780	2.1179363	21	9 16.7	18.5
143754 2003 VB_{11}	16.4	X	165.01113	256.89667	61.06551	6.59858	0.1339518	0.29237547	2.2482370	21	—	—
143755 2003 VG_{11}	16.6	X	357.93824	304.10840	262.63787	3.64527	0.1125147	0.30179516	2.2012086	21	2 22.4	18.8
143756 2003 WF_{4}	16.7	X	298.49953	256.97993	178.26918	1.85418	0.1775735	0.27165235	2.3611690	21	10 25.3	18.5
143757 2003 WX_{5}	16.4	X	113.67352	261.74923	87.85112	4.01311	0.1724868	0.28899529	2.2657338	21	—	—
143758 2003 WY_{10}	16.8	X	41.63276	121.40247	314.94887	5.30113	0.1092233	0.29011315	2.2599098	21	—	—
143759 2003 WC_{11}	16.6	X	300.34553	164.43385	342.11201	5.31800	0.0936582	0.28494659	2.2871452	21	—	—
143760 2003 WX_{11}	16.8	X	95.18216	61.90963	341.62065	5.76532	0.1503747	0.29233865	2.2484258	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
143761 2003 WS_{22}	16.2	X	282.47221	37.12016	180.49793	3.08527	0.0619990	0.29217107	2.2492855	21	—	—
143762 2003 WJ_{29}	16.5	X	255.61265	303.77485	0.60023	5.17739	0.1011871	0.30374983	2.1917551	21	2 23.7	19.5
143763 2003 WQ_{29}	16.2	X	135.64862	271.51419	20.76955	6.96186	0.1216911	0.28329430	2.2960296	21	—	—
143764 2003 WS_{30}	16.3	X	224.12140	231.90568	262.77877	6.04877	0.0571029	0.26967622	2.3726897	21	10 10.3	19.5
143765 2003 WP_{31}	16.5	X	8.38521	205.58375	336.09277	5.03438	0.0795658	0.30086552	2.2057406	21	2 10.1	18.6
143766 2003 WZ_{33}	16.3	X	90.95095	337.07055	286.67072	3.30574	0.1596448	0.27094711	2.3652645	21	11 2.5	19.7
143767 2003 WZ_{35}	17.2	X	139.84277	344.31454	22.90873	4.11386	0.1260502	0.29543493	2.2326886	21	1 10.5	19.8
143768 2003 WH_{36}	16.7	X	97.25757	35.27260	324.00892	1.88614	0.1152230	0.28677794	2.2773978	21	—	—
143769 2003 WM_{37}	16.4	X	210.00197	200.31521	301.17928	6.16625	0.0615845	0.26810318	2.3819615	21	9 30.1	19.7
143770 2003 WR_{37}	16.6	X	141.86243	14.70280	2.90407	6.83218	0.1648478	0.29687638	2.2254557	21	2 3.1	19.5
143771 2003 WS_{39}	16.8	X	195.88959	278.73388	16.13134	6.56200	0.1230694	0.29373711	2.2412837	21	—	—
143772 2003 WF_{41}	17.2	X	152.81057	106.64832	273.49427	3.21040	0.1748976	0.29856118	2.2170755	21	2 16.3	20.1
143773 2003 WY_{42}	16.9	X	165.81947	191.70442	169.96750	6.06101	0.1935960	0.29942791	2.2127951	21	2 7.9	20.1
143774 2003 WF_{43}	16.5	X	235.64709	352.24179	169.26749	5.72765	0.0465078	0.27698177	2.3307834	21	12 7.8	19.4
143775 2003 WR_{57}	16.5	X	213.81353	194.98384	47.82110	6.46538	0.1060616	0.28600160	2.2815172	21	—	—
143776 2003 WG_{59}	16.8	X	129.74446	345.52620	71.58282	4.36025	0.0835479	0.29996580	2.2101490	21	2 28.9	19.4
143777 2003 WL_{66}	16.8	X	95.51803	344.81663	46.38915	5.04584	0.1818759	0.29142733	2.2531107	21	—	—
143778 2003 WG_{67}	16.4	X	149.85626	87.36501	27.92992	3.17626	0.0591593	0.31003703	2.1620231	21	6 13.1	19.1
143779 2003 WN_{67}	16.5	X	162.83247	294.37775	46.72718	2.93561	0.0487911	0.29278460	2.2461421	21	—	—
143780 2003 WT_{67}	16.7	X	25.61573	336.53412	267.74198	1.66240	0.1079660	0.31168060	2.1544159	21	6 22.9	18.4
143781 2003 WE_{68}	16.6	X	324.85500	265.74075	246.88540	4.48173	0.1049208	0.28607299	2.2811376	21	—	—
143782 2003 WU_{68}	16.9	X	173.53259	346.69126	234.08627	5.75395	0.0620160	0.27473172	2.3434922	21	12 4.8	19.9
143783 2003 WC_{74}	16.8	X	67.66617	31.03488	6.70746	2.75221	0.2100401	0.28752041	2.2734754	21	—	—
143784 2003 WU_{74}	15.1	X	332.99289	127.84656	349.83770	11.33996	0.1362070	0.22493817	2.6776919	21	—	—
143785 2003 WR_{76}	16.3	X	182.34520	141.82631	346.38282	6.12205	0.0573571	0.26258197	2.4152353	21	8 13.5	19.7
143786 2003 WZ_{90}	17.4	X	133.65094	319.06536	88.85973	4.45117	0.0968400	0.29924163	2.2137133	21	2 23.3	20.1
143787 2003 WO_{91}	16.9	X	293.71957	182.05730	136.60272	3.98560	0.1941460	0.31346170	2.1462471	21	4 17.7	19.4
143788 2003 WL_{92}	16.8	X	165.67049	233.74727	122.92854	6.64662	0.1950214	0.29794452	2.2201336	21	2 3.3	20.0
143789 2003 WR_{92}	16.6	X	120.75550	30.64012	24.64525	7.72139	0.0644275	0.29832607	2.2182402	21	2 12.2	19.2
143790 2003 WE_{96}	16.8	X	270.60928	318.77102	225.66061	3.69210	0.0671983	0.28508900	2.2863835	21	—	—
143791 2003 WT_{103}	16.8	X	349.52258	3.27825	254.07596	4.03565	0.0318102	0.30784054	2.1722952	21	5 7.1	18.9
143792 2003 WL_{104}	17.2	X	121.59883	158.07444	193.82164	1.56536	0.1814587	0.28995525	2.2607302	21	—	—
143793 2003 WQ_{104}	16.7	X	4.63666	126.87906	234.85073	5.53800	0.1116128	0.27195878	2.3593950	21	11 13.9	18.9
143794 2003 WY_{104}	16.8	X	17.03797	100.83804	267.80632	1.92734	0.1691347	0.27551491	2.3390490	21	12 23.8	19.2
143795 2003 WO_{105}	16.2	X	159.98327	234.22010	51.90820	6.76192	0.1316114	0.28410835	2.2916417	21	—	—
143796 2003 WP_{107}	16.1	X	343.66500	19.44338	226.42147	5.90457	0.1122091	0.30487620	2.1863534	21	3 28.7	18.1
143797 2003 WA_{112}	16.3	X	268.97938	330.61176	8.03243	5.42797	0.0144181	0.30901699	2.1667783	21	5 7.5	18.7
143798 2003 WC_{113}	16.8	X	251.27365	332.23794	327.26297	4.65277	0.1915612	0.30263015	2.1971578	21	2 7.1	20.0
143799 2003 WJ_{113}	14.5	X	153.26561	321.43615	10.65761	3.96055	0.1487043	0.12645048	3.9311751	21	1 16.1	20.5
143800 2003 WM_{115}	16.4	X	118.01096	37.47093	292.67126	4.79286	0.1551453	0.28606402	2.2811852	21	—	—
143801 2003 WR_{116}	16.1	X	169.43636	13.19105	264.14691	6.01740	0.1106582	0.28396163	2.2924310	21	—	—
143802 2003 WV_{117}	16.4	X	43.21919	322.78859	44.08939	5.27144	0.0722110	0.27797646	2.3252199	21	—	—
143803 2003 WA_{119}	16.7	X	330.73762	105.34762	310.25793	1.77794	0.1673464	0.27375682	2.3490527	21	12 5.9	18.4
143804 2003 WE_{119}	16.9	X	184.53063	3.75300	35.23290	2.70922	0.1185111	0.30476074	2.1869056	21	4 12.6	19.9
143805 2003 WZ_{122}	16.3	X	185.26261	317.90995	315.38595	5.86622	0.0879307	0.28509445	2.2863543	21	—	—
143806 2003 WD_{123}	16.2	X	292.15523	210.34215	34.50321	6.90280	0.1424566	0.29603745	2.2296581	21	1 14.5	19.4
143807 2003 WY_{126}	16.5	X	169.55014	323.01230	51.06525	5.37582	0.1401315	0.29790486	2.2203306	21	2 27.1	19.6
143808 2003 WG_{127}	16.4	X	66.19486	340.30987	38.38227	5.58158	0.1232140	0.28155245	2.3054896	21	—	—
143809 2003 WN_{127}	16.5	X	75.13067	351.16280	55.24907	7.38938	0.1716186	0.28791244	2.2714112	21	—	—
143810 2003 WR_{127}	15.1	X	251.71067	226.11696	75.12089	14.68440	0.1917053	0.24225199	2.5485382	21	2 23.0	19.5
143811 2003 WE_{130}	17.1	X	15.89432	119.93312	349.36986	2.12935	0.0590038	0.28830500	2.2693489	21	—	—
143812 2003 WW_{131}	16.2	X	302.62747	156.61123	71.50569	7.01570	0.0848921	0.29648021	2.2274378	21	1 10.7	19.0
143813 2003 WO_{136}	16.1	X	308.96384	188.90739	74.19148	6.57361	0.0706849	0.30224836	2.1990077	21	3 13.0	18.7
143814 2003 WP_{136}	16.5	X	72.28830	212.83859	235.39713	3.85569	0.1131869	0.29347422	2.2426220	21	1 15.8	18.6
143815 2003 WR_{136}	16.3	X	342.70108	31.94374	72.66623	9.90158	0.1315084	0.28144446	2.3060793	21	—	—
143816 2003 WC_{137}	16.4	X	0.06832	331.44853	66.78653	5.98503	0.1128682	0.27587768	2.3369980	21	12 29.9	18.9
143817 2003 WJ_{137}	16.6	X	82.96856	38.50745	62.64890	5.26215	0.1189737	0.29652835	2.2271967	21	2 28.1	18.7
143818 2003 WF_{138}	16.9	X	106.02957	359.92084	21.16979	0.92625	0.1605207	0.29037924	2.2585290	21	—	—
143819 2003 WJ_{138}	16.8	X	271.53921	354.71902	53.02293	4.94128	0.1277360	0.31904753	2.1211227	21	8 10.6	19.0
143820 2003 WS_{139}	16.7	X	45.45231	348.62970	84.08282	5.05947	0.1397651	0.28655707	2.2785678	21	—	—
143821 2003 WR_{141}	16.3	X	196.97725	122.61488	245.46858	4.63955	0.1791768	0.30164044	2.2019613	21	3 15.0	19.8
143822 2003 WC_{142}	15.1	X	218.17595	108.42654	88.18007	22.70477	0.2677189	0.26948579	2.3738074	21	12 3.1	18.7
143823 2003 WU_{142}	15.9	X	359.30490	179.00879	276.99360	9.58551	0.1649413	0.27934918	2.3175963	21	—	—
143824 2003 WX_{145}	17.1	X	87.79077	298.78429	93.63091	2.20820	0.0671507	0.28965827	2.2622752	21	—	—
143825 2003 WK_{147}	16.6	X	61.23478	172.00496	203.78584	6.11339	0.1093204	0.28309202	2.2971233	21	—	—
143826 2003 WH_{148}	16.3	X	223.01246	187.64809	51.50079	8.80964	0.0840552	0.28616433	2.2806522	21	—	—
143827 2003 WM_{150}	16.2	X	164.92922	109.47808	148.18382	6.77428	0.1545087	0.28051824	2.3111527	21	—	—
143828 2003 WP_{150}	16.1	X	346.10729	108.47481	122.80521	7.17745	0.1205467	0.30363728	2.1922967	21	3 14.8	18.2
143829 2003 WP_{151}	16.7	X	333.18853	108.19443	6.44842	7.17732	0.0367640	0.28310018	2.2970791	21	—	—
143830 2003 WV_{152}	15.7	X	187.88590	309.95562	193.96936	25.30163	0.2448141	0.25677936	2.4514854	21	8 27.8	20.3
143831 2003 WH_{157}	16.6	X	346.10511	354.81620	112.06925	7.88512	0.0333928	0.28448043	2.2896431	21	—	—
143832 2003 WQ_{159}	14.7	X	274.25337	150.28305	319.19759	12.58332	0.1415216	0.20941241	2.8084570	21	10 18.6	18.6
143833 2003 WB_{161}	16.4	X	49.47095	180.58202	79.10103	3.51285	0.1691839	0.26248675	2.4158193	21	9 10.1	19.1
143834 2003 WV_{167}	16.8	X	359.56150	349.04853	168.65276	5.07940	0.0781318	0.29519370	2.2339048	21	—	—
143835 2003 WG_{181}	16.7	X	71.16704	16.74654	3.38864	3.16348	0.1779480	0.28475044	2.2881954	21	—	—
143836 2003 XL_{1}	16.5	X	176.44964	295.06459	323.77478	5.71446	0.1704891	0.28343721	2.2952578	21	—	—
143837 2003 XO_{7}	16.1	X	67.43138	263.38524	107.17093	8.46929	0.0811312	0.28178193	2.3042378	21	—	—
143838 2003 XT_{7}	16.5	X	18.06901	182.89103	230.86345	5.82726	0.0878050	0.28026223	2.3125599	21	—	—
143839 2003 XL_{16}	16.6	X	44.36063	239.52380	190.08220	6.13802	0.1782023	0.28681383	2.2772078	21	—	—
143840 2003 XA_{18}	16.0	X	104.44205	13.95986	50.94248	8.30293	0.0850563	0.29275696	2.2462835	21	2 6.2	18.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
143841 2003 XN_{20}	16.8	X	355.82843	303.63114	264.64317	5.26869	0.0921562	0.29965073	2.2116980	21	2 23.4	19.2
143842 2003 XY_{24}	17.0	X	11.99791	318.94184	206.12268	6.17862	0.0873586	0.29628447	2.2284187	21	1 20.2	19.3
143843 2003 XG_{36}	16.3	X	19.70458	149.08656	291.38496	9.43922	0.1301150	0.28383530	2.2931112	21	—	—
143844 2003 XW_{37}	16.9	X	151.25676	11.86935	28.71135	6.88357	0.1557980	0.30044195	2.2078132	21	3 15.2	19.9
143845 2003 XT_{38}	16.7	X	13.23785	20.62223	50.24082	7.88698	0.0611267	0.28071372	2.3100797	21	—	—
143846 2003 YA_{3}	16.6	X	34.08886	133.62769	286.80807	2.29044	0.2218535	0.28211007	2.3024506	21	—	—
143847 2003 YO_{4}	16.6	X	347.07227	146.78096	60.61050	6.47772	0.1333541	0.29696803	2.2249978	21	2 7.6	18.9
143848 2003 YZ_{5}	15.7	X	75.46073	69.59227	295.85154	10.19189	0.1875190	0.27868836	2.3212585	21	—	—
143849 2003 YG_{6}	16.6	X	305.98401	344.64296	348.28399	5.99108	0.1009582	0.31477899	2.1402552	21	6 11.2	18.8
143850 2003 YV_{6}	16.6	X	14.25277	32.48519	47.50393	6.16228	0.1279033	0.28113968	2.3077457	21	—	—
143851 2003 YK_{7}	16.2	X	45.29666	62.72292	40.88435	7.73725	0.1557875	0.28671841	2.2777130	21	—	—
143852 2003 YR_{7}	16.9	X	177.48058	93.66955	109.05145	4.45810	0.1187368	0.26692468	2.3889674	21	11 12.2	20.4
143853 2003 YX_{7}	16.6	X	274.73985	316.09082	136.43830	10.36851	0.1871661	0.26603462	2.3942929	21	10 8.7	19.4
143854 2003 YT_{8}	16.7	X	204.97295	140.09034	210.25458	3.29360	0.1987688	0.30106495	2.2047664	21	3 1.2	20.2
143855 2003 YC_{9}	16.1	X	160.56128	53.57133	308.37965	4.35963	0.2228648	0.29495557	2.2351070	21	2 7.3	19.3
143856 2003 YN_{10}	16.1	X	237.61771	358.40294	333.87036	7.77773	0.1603683	0.30356902	2.1926253	21	3 7.8	19.2
143857 2003 YU_{11}	16.7	X	196.71848	213.06455	12.83824	8.16655	0.0661409	0.27537140	2.3398615	21	—	—
143858 2003 YH_{12}	15.4	X	21.62712	162.26863	324.22442	11.83779	0.0981172	0.23274607	2.6174666	21	1 2.8	18.5
143859 2003 YD_{13}	16.3	X	207.05164	122.45191	5.60803	2.38963	0.1703497	0.25955830	2.4339563	21	9 2.2	20.1
143860 2003 YL_{13}	16.6	X	134.91185	55.83392	319.44422	5.91054	0.2002945	0.29144810	2.2530036	21	1 26.7	19.2
143861 2003 YP_{13}	15.8	X	201.51992	172.56302	20.26965	5.62304	0.1748634	0.26708873	2.3879891	21	11 16.9	19.4
143862 2003 YW_{13}	16.3	X	202.36949	350.05255	39.25654	6.49315	0.1717236	0.30352954	2.1928154	21	4 19.3	19.5
143863 2003 YC_{15}	16.1	X	243.69944	186.79180	323.54976	6.30145	0.0555607	0.27088916	2.3656017	21	11 28.9	19.1
143864 2003 YN_{15}	16.0	X	171.13976	20.00938	338.62585	6.75174	0.1993019	0.29565196	2.2315958	21	2 12.3	19.3
143865 2003 YG_{16}	16.1	X	212.56355	304.87198	50.21496	5.19119	0.1892380	0.29932139	2.2133200	21	3 17.6	19.6
143866 2003 YH_{16}	16.5	X	210.50531	300.06870	80.51852	8.85586	0.2297871	0.30411217	2.1900138	21	4 18.2	20.2
143867 2003 YZ_{16}	15.2	X	64.67532	74.63654	64.86101	11.41982	0.0453228	0.23733018	2.5836524	21	3 30.4	18.6
143868 2003 YA_{18}	16.4	X	301.49186	329.09270	107.86090	8.89392	0.2280688	0.26906853	2.3762608	21	10 31.5	18.4
143869 2003 YM_{20}	16.6	X	112.26727	239.86369	349.83094	2.78080	0.1970634	0.25801779	2.4436347	21	10 13.3	20.3
143870 2003 YO_{22}	16.4	X	103.59722	38.93801	357.10417	2.38603	0.2457036	0.29009364	2.2600111	21	1 18.6	18.3
143871 2003 YK_{23}	16.6	X	61.90354	68.89349	341.76133	6.80499	0.0862121	0.28676157	2.2774844	21	—	—
143872 2003 YU_{23}	16.8	X	353.64530	220.89692	224.71670	5.96671	0.0767580	0.28126502	2.3070601	21	—	—
143873 2003 YC_{24}	15.2	X	229.91613	206.97337	25.64255	12.06527	0.1387607	0.22347238	2.6893881	21	—	—
143874 2003 YO_{24}	16.3	X	29.01633	267.91682	116.99813	7.39007	0.1165399	0.27569522	2.3380290	21	—	—
143875 2003 YR_{24}	16.8	X	215.15587	305.91760	145.64408	3.48733	0.0981283	0.25681465	2.4512608	21	7 29.0	20.2
143876 2003 YE_{26}	16.5	X	215.26777	133.90880	349.26185	3.63614	0.1605792	0.26008317	2.4306805	21	9 4.7	19.9
143877 2003 YF_{26}	16.5	X	341.77169	99.21375	74.32951	6.74804	0.0469647	0.28779736	2.2720167	21	—	—
143878 2003 YG_{27}	16.2	X	26.45325	313.37277	94.13036	6.86525	0.1063423	0.28050371	2.3112325	21	—	—
143879 2003 YV_{27}	15.6	X	103.73055	128.98854	338.91951	9.62303	0.1349735	0.24270916	2.5453369	21	4 13.9	19.1
143880 2003 YZ_{28}	16.5	X	159.35608	111.38630	312.42191	3.27914	0.1067772	0.29996432	2.2101563	21	4 15.7	19.6
143881 2003 YO_{29}	16.7	X	225.87897	54.76445	112.31573	3.32156	0.1236682	0.26846783	2.3798041	21	11 19.3	19.9
143882 2003 YP_{29}	16.8	X	353.23626	357.55295	151.81632	0.78178	0.0828521	0.28621638	2.2803757	21	—	—
143883 2003 YB_{32}	16.8	X	229.61832	130.62473	326.15898	0.82273	0.1363116	0.25941580	2.4348475	21	8 18.4	20.2
143884 2003 YD_{34}	16.7	X	185.71631	208.92584	150.79217	6.46017	0.1959443	0.30100411	2.2050635	21	2 25.5	19.9
143885 2003 YW_{34}	16.2	X	100.96337	336.93578	78.19287	5.54758	0.1285271	0.29220035	2.2491352	21	1 21.9	18.4
143886 2003 YE_{35}	16.3	X	298.84033	308.27628	162.93773	6.27710	0.1977578	0.27450179	2.3448007	21	12 21.0	18.2
143887 2003 YJ_{36}	16.8	X	187.67977	305.90189	74.67063	2.83957	0.2147972	0.30194663	2.2004724	21	3 27.6	20.2
143888 2003 YL_{40}	16.3	X	118.06598	245.18127	105.87487	10.71509	0.2011482	0.28469389	2.2884984	21	—	—
143889 2003 YR_{40}	16.2	X	202.31116	190.89989	101.39180	3.97981	0.0762219	0.22883173	2.6472312	21	—	—
143890 2003 YE_{43}	16.0	X	330.65099	356.95756	277.59974	3.43588	0.1598865	0.24509569	2.5287871	21	4 20.1	18.8
143891 2003 YP_{43}	16.6	X	210.17158	6.76784	188.39076	1.81569	0.1392511	0.26932618	2.3747451	21	12 4.7	19.8
143892 2003 YU_{43}	16.5	X	359.53844	283.85932	112.61218	4.54264	0.1500542	0.27196165	2.3593784	21	12 30.9	18.9
143893 2003 YS_{44}	16.7	X	294.43940	310.81983	103.23344	7.64832	0.1114333	0.26338763	2.4103076	21	9 27.3	19.4
143894 2003 YT_{45}	16.3	X	39.60928	61.38603	3.91619	6.54328	0.0841084	0.28528806	2.2853198	21	—	—
143895 2003 YY_{50}	16.1	X	356.97643	317.20318	88.24556	4.76938	0.1391364	0.27448512	2.3448956	21	—	—
143896 2003 YN_{55}	16.2	X	80.59757	264.73960	236.50107	3.95312	0.1431058	0.24449936	2.5328972	21	5 2.3	19.2
143897 2003 YV_{55}	15.8	X	159.26935	132.84497	203.67705	3.20917	0.3129308	0.23943655	2.5684774	21	1 20.9	20.2
143898 2003 YG_{56}	16.1	X	282.68909	284.26653	250.24728	5.91633	0.0539777	0.28211062	2.3024476	21	—	—
143899 2003 YK_{56}	16.5	X	216.25097	15.17476	128.64075	2.82204	0.1205796	0.26685711	2.3893707	21	10 8.7	19.8
143900 2003 YJ_{58}	16.1	X	261.50070	331.98890	112.40674	5.33072	0.1070145	0.26462930	2.4027620	21	9 18.6	19.0
143901 2003 YR_{60}	17.0	X	234.13237	246.70357	213.51994	1.75985	0.1285922	0.26359122	2.4090663	21	8 28.8	20.3
143902 2003 YR_{61}	16.0	X	35.24037	203.78946	114.73508	7.08897	0.1251844	0.26781771	2.3836538	21	11 5.7	18.8
143903 2003 YZ_{61}	16.3	X	131.24969	286.88931	106.90987	8.61908	0.1744625	0.29398125	2.2400427	21	2 13.3	19.1
143904 2003 YM_{62}	16.4	X	303.96046	193.64813	317.52738	1.18116	0.1791249	0.27797009	2.3252554	21	—	—
143905 2003 YS_{62}	16.2	X	287.04155	202.55196	280.55895	8.07192	0.1023254	0.27222330	2.3578664	21	12 22.8	18.4
143906 2003 YW_{62}	16.2	X	341.71681	329.20468	140.88372	4.29935	0.1366750	0.28008196	2.3135522	21	—	—
143907 2003 YV_{63}	16.2	X	3.50055	343.39942	106.95974	7.08043	0.0791760	0.28070901	2.3101055	21	—	—
143908 2003 YR_{65}	16.3	X	232.59993	242.41492	281.40836	5.94283	0.0529299	0.26870516	2.3784026	21	12 2.9	19.2
143909 2003 YS_{66}	16.6	X	343.85494	153.95705	306.08972	4.71320	0.1891656	0.27566636	2.3381921	21	—	—
143910 2003 YD_{69}	16.5	X	112.40979	195.62067	215.85879	4.62890	0.1554511	0.29164902	2.2519688	21	2 5.3	18.9
143911 2003 YJ_{69}	16.3	X	300.32176	222.55189	277.94570	5.02923	0.1779664	0.27423349	2.3463298	21	—	—
143912 2003 YN_{70}	16.6	X	155.60008	227.88541	129.25591	5.38450	0.2076701	0.29370255	2.2414596	21	1 26.2	19.5
143913 2003 YF_{74}	16.8	X	327.72952	33.79888	359.26300	2.71482	0.1651481	0.27031870	2.3689287	21	10 22.1	18.8
143914 2003 YA_{75}	16.6	X	339.54732	165.31495	343.20875	2.99550	0.1724684	0.28498242	2.2869535	21	—	—
143915 2003 YC_{79}	16.3	X	256.01939	175.13337	328.22867	1.73768	0.1496059	0.27016857	2.3698062	21	11 22.7	18.8
143916 2003 YE_{79}	16.3	X	99.95306	4.78083	55.59881	3.28884	0.1828352	0.29282467	2.2459372	21	2 6.2	18.4
143917 2003 YN_{79}	15.4	X	324.62653	231.34343	2.28911	3.20751	0.1778770	0.23732138	2.5837162	21	2 14.1	18.7
143918 2003 YP_{79}	15.9	X	316.60833	265.45835	93.76327	7.40051	0.1779427	0.26120988	2.4236858	21	8 1.9	18.2
143919 2003 YW_{80}	15.4	X	322.92717	252.24742	310.51068	10.68546	0.1243597	0.23095464	2.6309843	21	1 12.5	18.9
143920 2003 YF_{82}	17.0	X	134.11147	14.25726	16.06820	1.70650	0.1857104	0.29358367	2.2420646	21	2 12.5	19.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
143921 2003 YW_{85}	16.5	X	33.73919	161.44544	226.04575	5.56877	0.1135742	0.27859183	2.3217946	21	—	—
143922 2003 YU_{87}	16.3	X	224.69809	152.29950	318.18632	6.00501	0.0762527	0.25950812	2.4342700	21	9 5.6	19.5
143923 2003 YE_{89}	15.2	X	342.05736	205.40805	304.33548	13.19713	0.0589664	0.22614886	2.6681267	21	—	—
143924 2003 YH_{89}	16.0	X	278.78344	237.42839	39.43618	10.13433	0.0709491	0.23828508	2.5767452	21	3 3.6	19.7
143925 2003 YO_{89}	16.3	X	19.39002	131.77657	319.32921	9.20276	0.1508321	0.28054585	2.3110011	21	—	—
143926 2003 YX_{89}	15.8	X	208.09197	256.66498	305.79906	6.81055	0.0577962	0.27082731	2.3659619	21	12 22.7	18.8
143927 2003 YE_{90}	15.9	X	33.25487	101.53703	84.69611	3.22549	0.0644211	0.24084881	2.5584271	21	4 12.3	18.8
143928 2003 YU_{90}	16.5	X	132.57997	143.16306	220.99097	5.75301	0.2075972	0.29307297	2.2446684	21	1 7.9	19.2
143929 2003 YP_{91}	16.8	X	157.88529	226.52580	195.40848	4.78536	0.1318739	0.30033753	2.2083250	21	4 15.8	19.9
143930 2003 YP_{98}	16.9	X	298.40002	218.71122	222.45226	3.58475	0.1157852	0.27168634	2.3609721	21	11 10.1	19.2
143931 2003 YD_{102}	16.6	X	289.34189	334.38875	173.42027	3.10081	0.1058109	0.27595546	2.3365588	21	—	—
143932 2003 YF_{102}	15.9	X	342.20408	354.29676	220.80540	2.28107	0.0466721	0.23839117	2.5759807	21	3 3.7	19.2
143933 2003 YC_{104}	17.1	X	81.35415	268.45705	143.36096	1.05834	0.1998864	0.29047498	2.2580327	21	—	—
143934 2003 YD_{105}	16.3	X	336.16965	188.87949	283.63689	6.11537	0.1874508	0.27626003	2.3348412	21	—	—
143935 2003 YE_{105}	16.7	X	64.81437	176.78109	219.84167	5.58488	0.0905982	0.28603995	2.2813133	21	—	—
143936 2003 YR_{105}	16.4	X	336.75791	347.90603	112.59427	7.62417	0.1512721	0.27893555	2.3198868	21	—	—
143937 2003 YK_{106}	16.2	X	117.59648	311.59514	276.83690	5.27192	0.0828297	0.26255709	2.4153879	21	10 7.3	19.7
143938 2003 YV_{106}	16.4	X	80.03325	198.30160	274.89425	6.50136	0.1021432	0.29356167	2.2421766	21	3 4.0	18.8
143939 2003 YC_{107}	17.4	X	280.50109	281.34241	166.75443	2.15697	0.1353540	0.26615496	2.3935712	21	10 16.6	19.8
143940 2003 YW_{113}	16.9	X	81.74564	346.60287	65.46780	3.39438	0.0773594	0.28975320	2.2617810	21	—	—
143941 2003 YE_{115}	17.2	X	31.48776	348.39057	63.05943	3.08524	0.1572108	0.28007121	2.3136114	21	—	—
143942 2003 YF_{115}	16.5	X	118.66148	328.53997	33.22297	7.90875	0.1586334	0.28707288	2.2758376	21	—	—
143943 2003 YH_{115}	15.8	X	57.37378	152.71672	22.53917	6.81315	0.2335475	0.24176292	2.5519740	21	5 27.6	18.4
143944 2003 YP_{115}	16.2	X	71.49893	351.70891	59.76553	10.49943	0.0243065	0.28498842	2.2869214	21	—	—
143945 2003 YZ_{115}	16.4	X	243.64068	134.77929	315.76345	4.96713	0.1705337	0.26167614	2.4208059	21	8 21.6	19.8
143946 2003 YB_{117}	16.5	X	34.40571	22.69486	50.56191	6.99431	0.0813383	0.28224424	2.3017209	21	—	—
143947 2003 YQ_{117}	15.3	X	218.75043	135.69082	217.49773	21.03061	0.6547452	0.30590555	2.1814460	21	3 10.4	20.7
143948 2003 YJ_{118}	16.7	X	202.38567	310.07293	66.41158	8.05008	0.2165785	0.30234908	2.1985193	21	4 6.2	20.3
143949 2003 YO_{119}	16.5	X	9.50344	224.34992	293.83573	4.47017	0.0902692	0.29037675	2.2585419	21	1 9.3	18.6
143950 2003 YR_{120}	16.2	X	326.54499	16.85537	25.10668	7.01239	0.1240100	0.26720300	2.3873082	21	11 1.9	18.5
143951 2003 YC_{121}	16.4	X	19.88635	338.20197	28.29090	7.72616	0.1257624	0.27068960	2.3667642	21	12 16.1	19.2
143952 2003 YL_{121}	16.5	X	124.62759	340.58380	15.45300	3.97069	0.1952677	0.28871018	2.2672252	21	—	—
143953 2003 YL_{122}	16.9	X	275.48636	76.91214	252.38031	4.13427	0.0859509	0.30818655	2.1706690	21	4 22.3	19.6
143954 2003 YY_{122}	15.8	X	46.68801	353.84718	68.76426	2.78281	0.0733544	0.22663210	2.6643326	21	—	—
143955 2003 YC_{123}	16.6	X	193.19585	222.56270	358.42057	2.37264	0.1439419	0.26901554	2.3765729	21	12 18.2	20.0
143956 2003 YL_{123}	16.9	X	248.30014	284.68895	202.82051	1.61884	0.1577830	0.26547352	2.3976654	21	10 19.5	19.9
143957 2003 YB_{125}	16.1	X	316.49794	132.71560	303.85030	10.87248	0.0917199	0.27390459	2.3482077	21	12 7.2	18.6
143958 2003 YD_{126}	16.3	X	87.79026	98.86782	2.00142	6.36816	0.0155382	0.29824396	2.2186474	21	2 19.9	18.8
143959 2003 YG_{126}	16.9	X	116.44850	353.56116	26.22044	2.96079	0.2480026	0.29071884	2.2567698	21	1 16.1	19.2
143960 2003 YX_{126}	16.4	X	2.59652	177.22128	326.15660	9.02400	0.1602001	0.28704448	2.2759877	21	—	—
143961 2003 YU_{128}	15.4	X	47.33474	214.62639	355.60569	7.46518	0.1764366	0.24432315	2.5341149	21	6 22.7	18.2
143962 2003 YT_{129}	16.3	X	345.78027	28.47699	4.20811	6.24661	0.1226404	0.26892197	2.3771241	21	11 24.6	18.6
143963 2003 YA_{130}	15.8	X	183.00513	50.84813	73.96868	9.09604	0.0331952	0.25345753	2.4728584	21	8 11.7	19.2
143964 2003 YD_{130}	15.7	X	221.88818	73.71838	54.36949	7.23626	0.0909464	0.25882465	2.4385535	21	9 29.3	19.1
143965 2003 YC_{133}	16.2	X	301.06653	101.18206	65.55220	7.40513	0.0489170	0.28019748	2.3129162	21	—	—
143966 2003 YE_{133}	16.4	X	41.67302	0.98305	82.49547	8.15335	0.0834221	0.28343552	2.2952669	21	—	—
143967 2003 YR_{134}	15.5	X	274.26846	304.87991	335.50979	14.22067	0.0669207	0.23765411	2.5813041	21	2 25.8	18.9
143968 2003 YN_{136}	15.7	X	21.40809	150.13821	283.30991	2.93868	0.0774742	0.22235841	2.6983628	21	—	—
143969 2003 YS_{136}	16.5	X	95.88807	128.98614	286.52365	3.75073	0.1249556	0.28904781	2.2654593	21	1 13.1	18.7
143970 2003 YJ_{138}	15.9	X	198.49034	280.49237	109.53978	10.00631	0.0933945	0.24422904	2.5347659	21	4 24.9	19.8
143971 2003 YV_{138}	16.4	X	279.96718	107.21429	351.48872	10.74556	0.2123118	0.26579325	2.3957422	21	10 13.6	18.9
143972 2003 YK_{142}	15.8	X	163.15965	301.84618	342.40535	12.07868	0.1610133	0.22293203	2.6937321	21	—	—
143973 2003 YP_{142}	16.4	X	187.81172	305.35024	297.88914	5.52542	0.0929500	0.27436125	2.3456014	21	—	—
143974 2003 YA_{143}	15.3	X	329.52074	167.84423	59.43970	13.23265	0.1215458	0.23747417	2.5826078	21	2 27.8	18.8
143975 2003 YP_{143}	15.5	X	314.34738	263.81953	330.46833	12.57682	0.1564570	0.23729431	2.5839127	21	2 5.5	18.8
143976 2003 YG_{144}	16.7	X	58.03753	141.62030	335.55715	5.03396	0.0866687	0.29083276	2.2561805	21	2 3.3	18.9
143977 2003 YM_{145}	16.1	X	265.24197	10.20699	52.28875	8.77148	0.1250236	0.25942955	2.4347615	21	8 22.5	19.3
143978 2003 YS_{145}	15.7	X	23.92455	89.75018	355.52322	12.37581	0.0882895	0.22381977	2.6866046	21	—	—
143979 2003 YF_{146}	15.5	X	238.64321	316.99985	346.55797	14.72317	0.0909582	0.23487955	2.6015923	21	2 16.9	19.4
143980 2003 YT_{148}	15.7	X	287.79373	205.58181	48.95410	14.10651	0.1132643	0.23623920	2.5916006	21	2 9.7	19.7
143981 2003 YH_{150}	16.9	X	13.09054	74.46835	16.74350	6.77980	0.1427546	0.28249683	2.3003486	21	—	—
143982 2003 YK_{150}	17.4	X	267.66282	270.76222	186.75734	0.59699	0.1409668	0.26462639	2.4027797	21	10 7.9	20.1
143983 2003 YE_{152}	15.6	X	196.38230	180.81507	58.97464	14.47195	0.0297420	0.21938916	2.7226549	21	—	—
143984 2003 YZ_{152}	15.3	X	234.46721	218.24866	38.72715	14.25073	0.1589061	0.22475524	2.6791447	21	—	—
143985 2003 YT_{153}	15.1	X	315.35590	143.68811	51.17869	12.84006	0.1371831	0.22871484	2.6481332	21	—	—
143986 2003 YB_{154}	15.7	X	74.47256	153.20241	354.95129	12.89591	0.1011405	0.24129222	2.5552918	21	4 21.3	19.0
143987 2003 YS_{154}	15.2	X	256.92690	125.70801	62.51086	13.07952	0.1243690	0.21600831	2.7509904	21	—	—
143988 2003 YT_{154}	15.2	X	86.53578	346.49433	92.90949	18.69723	0.1515376	0.23229704	2.6208385	21	2 25.7	18.7
143989 2003 YY_{158}	16.2	X	86.05135	298.43388	346.58142	8.36734	0.1226471	0.27141994	2.3625167	21	11 19.5	19.7
143990 2003 YN_{175}	16.4	X	99.88225	34.21178	344.99472	2.39253	0.0509474	0.22670798	2.6637380	21	—	—
143991 2003 YO_{179}	5.8	X	330.08224	64.88679	66.91499	19.40339	0.1320832	0.00333177	44.3969225	21	12 24.6	21.8
143992 2004 AF	16.1	X	137.95466	57.92187	315.64910	27.13741	0.5537722	0.35612904	1.9712020	21	2 20.5	19.5
143993 2004 AG_{2}	16.4	X	246.65706	49.36450	45.24975	1.67160	0.0842044	0.26102559	2.4248264	21	9 13.7	19.3
143994 2004 AU_{2}	16.3	X	187.61691	337.89124	263.33684	3.16706	0.0685837	0.27352452	2.3503824	21	—	—
143995 2004 AJ_{3}	16.3	X	296.94131	59.20424	342.64340	6.41421	0.1556177	0.26267645	2.4146561	21	9 2.1	18.9
143996 2004 AN_{3}	16.8	X	139.59228	24.03103	34.77370	3.80706	0.0547312	0.29542519	2.2327377	21	3 12.3	19.4
143997 2004 AU_{3}	16.7	X	295.93386	301.70110	109.00611	6.75273	0.1140962	0.26336629	2.4104378	21	9 23.8	19.3
143998 2004 AQ_{4}	16.6	X	127.56929	218.22227	165.49429	4.23843	0.1512026	0.29382191	2.2408525	21	1 19.3	19.1
143999 2004 AR_{4}	15.3	X	29.04260	55.26525	123.27150	7.08864	0.1895015	0.24087178	2.5582644	21	3 30.6	17.5
144000 2004 AV_{4}	16.4	X	60.28257	353.56852	135.90047	4.48598	0.0779236	0.29264739	2.2468441	21	2 24.5	18.6