Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
220001 2002 PP_{31}	17.4	X	181.25659	35.60280	292.17692	1.57854	0.1997685	0.28762041	2.2729484	21	1 14.4	20.9
220002 2002 PX_{43}	16.5	X	154.00645	33.59968	343.92484	6.84637	0.1591677	0.28616681	2.2806389	21	2 16.7	19.5
220003 2002 PG_{45}	16.5	X	187.46281	322.87680	37.10972	3.81092	0.2853823	0.28847216	2.2684721	21	3 5.9	20.5
220004 2002 PO_{56}	16.8	X	141.06672	176.32480	174.68496	3.22917	0.2016869	0.28330767	2.2959574	21	1 3.0	19.8
220005 2002 PG_{60}	16.8	X	128.14641	195.98463	145.87527	11.57551	0.2667144	0.27959953	2.3162126	21	—	—
220006 2002 PS_{87}	16.0	X	264.96099	245.76760	326.97565	23.62392	0.2792214	0.28801574	2.2708681	21	—	—
220007 2002 PS_{99}	17.2	X	229.38300	292.24136	21.92507	5.07323	0.2237033	0.29279531	2.2460874	21	2 8.9	20.9
220008 2002 PX_{101}	17.1	X	127.74514	116.31754	203.63544	6.10736	0.2487869	0.27937384	2.3174599	21	—	—
220009 2002 PO_{102}	15.5	X	23.32658	194.34697	298.66935	25.38330	0.1775618	0.28895969	2.2659198	21	—	—
220010 2002 PJ_{111}	16.8	X	131.85106	105.87246	344.61763	6.05153	0.1061192	0.29730710	2.2233058	21	4 18.6	19.6
220011 2002 PJ_{123}	15.2	X	220.64634	358.06287	233.18971	7.02124	0.0207920	0.17450226	3.1715289	21	—	—
220012 2002 PP_{124}	17.0	X	295.79791	301.03328	315.23376	7.03203	0.0960289	0.29485368	2.2356219	21	2 7.1	19.6
220013 2002 PK_{135}	17.4	X	198.08150	150.50143	165.84567	3.18501	0.1819817	0.28872769	2.2671335	21	1 13.7	21.0
220014 2002 PG_{137}	17.4	X	119.55719	206.40006	138.16012	6.18359	0.2172107	0.27980439	2.3150819	21	—	—
220015 2002 PU_{155}	17.0	X	92.74016	295.37409	104.94152	3.33763	0.1768056	0.28311711	2.2969875	21	—	—
220016 2002 PG_{170}	15.0	X	353.21921	240.43645	231.22652	16.06003	0.0752180	0.17795791	3.1303377	21	—	—
220017 2002 PH_{179}	16.5	X	161.39071	160.57123	188.22023	23.20920	0.1531076	0.28588670	2.2821284	21	1 13.6	20.3
220018 2002 QC_{6}	16.5	X	159.09732	186.95629	195.86868	22.67631	0.2538006	0.28853824	2.2681258	21	3 4.8	20.4
220019 2002 QG_{10}	16.3	X	183.50459	254.03920	91.16775	6.27895	0.1967133	0.28682073	2.2771712	21	2 8.6	19.8
220020 2002 QF_{12}	17.1	X	141.22364	158.75387	201.86949	3.26925	0.1228048	0.28529933	2.2852596	21	1 3.9	20.0
220021 2002 QB_{16}	16.3	X	165.82964	116.96668	225.13826	20.79867	0.3059459	0.28589516	2.2820834	21	1 20.6	20.5
220022 2002 QN_{23}	17.0	X	217.61204	185.94931	132.73290	7.15213	0.1548745	0.29331696	2.2434235	21	2 2.3	20.4
220023 2002 QQ_{43}	16.7	X	109.76598	353.75919	31.82861	6.35151	0.2344707	0.28285196	2.2984228	21	1 14.6	19.2
220024 2002 QH_{47}	16.6	X	206.97612	311.87315	41.47737	8.10582	0.2267885	0.29228051	2.2487239	21	3 12.9	20.4
220025 2002 QW_{53}	17.5	X	265.75983	80.14559	183.64588	5.81399	0.0722701	0.29013377	2.2598027	21	1 14.7	20.7
220026 2002 QG_{55}	17.0	X	130.92931	57.92135	331.74878	2.61856	0.1745704	0.28635170	2.2796572	21	2 7.0	19.7
220027 2002 QJ_{57}	17.2	X	204.40689	315.00080	311.28511	2.12178	0.2173170	0.28433851	2.2904049	21	—	—
220028 2002 QT_{89}	17.3	X	115.97656	16.34535	30.58336	4.58346	0.1729970	0.28570577	2.2830918	21	2 12.4	19.9
220029 2002 QC_{100}	17.4	X	108.44530	35.01475	18.02710	2.88097	0.1962424	0.28538064	2.2848255	21	2 12.9	19.9
220030 2002 QZ_{102}	17.0	X	143.02500	66.21676	268.63386	3.87850	0.0422116	0.28117961	2.3075272	21	—	—
220031 2002 QF_{107}	17.5	X	226.81953	346.81852	297.02073	2.70287	0.0927974	0.28876784	2.2669233	21	—	—
220032 2002 QO_{108}	18.0	X	108.86354	77.29955	303.47382	1.74920	0.1745888	0.28288700	2.2982330	21	—	—
220033 2002 QB_{128}	17.8	X	344.43031	103.15630	123.92603	2.30557	0.1397708	0.29826996	2.2185184	21	2 28.9	19.8
220034 2002 RZ_{2}	17.1	X	143.49702	203.77598	145.67577	5.73417	0.1922403	0.28265605	2.2994847	21	1 2.8	20.1
220035 2002 RM_{6}	17.4	X	145.51671	226.50795	145.91935	0.95638	0.2244961	0.28577901	2.2827017	21	2 7.5	20.5
220036 2002 RN_{9}	17.0	X	180.58557	31.99208	335.68554	3.09175	0.0783393	0.29162995	2.2520669	21	2 23.8	20.0
220037 2002 RT_{35}	16.6	X	201.04636	4.71286	296.22812	5.90804	0.1231047	0.28615450	2.2807044	21	—	—
220038 2002 RW_{40}	17.5	X	134.46142	6.07918	13.33969	1.82980	0.2825816	0.28429087	2.2906608	21	2 12.8	20.7
220039 2002 RY_{42}	17.0	X	127.58232	291.23217	72.47357	2.66103	0.1754088	0.28225971	2.3016368	21	—	—
220040 2002 RO_{55}	17.0	X	134.97807	146.93204	220.66803	5.05381	0.2139473	0.28269953	2.2992489	21	1 18.3	20.0
220041 2002 RD_{59}	17.1	X	137.80533	126.31866	203.21621	4.87524	0.2427767	0.28005759	2.3136864	21	—	—
220042 2002 RF_{67}	16.4	X	154.13915	80.79209	276.15419	5.50264	0.1804941	0.28422702	2.2910038	21	1 22.1	19.6
220043 2002 RB_{69}	16.8	X	33.04993	124.65525	343.32079	5.54185	0.1082681	0.28268856	2.2993084	21	—	—
220044 2002 RO_{70}	16.5	X	131.96469	121.81195	275.42913	6.54624	0.1402034	0.28722404	2.2750391	21	2 10.5	19.4
220045 2002 RP_{73}	16.6	X	264.04464	258.29874	330.11538	6.40187	0.0595418	0.28413445	2.2915014	21	—	—
220046 2002 RP_{79}	17.0	X	113.07976	45.23460	348.70778	7.55075	0.1067391	0.28339285	2.2954973	21	1 10.3	19.6
220047 2002 RB_{84}	16.9	X	101.67919	51.14348	326.88832	2.57527	0.1810506	0.27873873	2.3209788	21	—	—
220048 2002 RC_{84}	16.6	X	131.65756	161.98371	187.80269	6.72151	0.1378252	0.28018358	2.3129927	21	—	—
220049 2002 RS_{86}	17.0	X	92.96096	45.60643	343.12472	4.51546	0.2440112	0.27788428	2.3257341	21	—	—
220050 2002 RU_{93}	16.9	X	81.93778	150.60913	259.57094	3.87580	0.1118022	0.28020456	2.3128772	21	—	—
220051 2002 RH_{94}	16.6	X	124.33850	290.70164	11.20868	4.98830	0.2339156	0.27429951	2.3459533	21	—	—
220052 2002 RY_{101}	16.6	X	73.54887	40.44005	3.60088	6.23232	0.2400732	0.27476867	2.3432821	21	—	—
220053 2002 RU_{104}	16.0	X	105.62803	323.11325	7.57399	6.57774	0.1512099	0.27152963	2.3618804	21	—	—
220054 2002 RL_{109}	17.8	X	129.16016	136.32637	215.50206	1.99552	0.2378282	0.28105623	2.3082025	21	—	—
220055 2002 RF_{110}	16.8	X	216.41915	145.82855	205.23309	6.12814	0.1500632	0.29294610	2.2453165	21	3 12.7	20.3
220056 2002 RR_{113}	17.4	X	169.36688	319.26743	337.71897	4.92862	0.1439427	0.28133184	2.3066948	21	—	—
220057 2002 RQ_{114}	16.9	X	143.87306	307.11444	53.98665	4.18687	0.1451378	0.28251830	2.3002321	21	1 12.9	19.9
220058 2002 RM_{121}	16.2	X	181.50054	32.84140	303.39775	5.47525	0.2201688	0.28583878	2.2823835	21	1 26.6	19.6
220059 2002 RO_{122}	16.9	X	134.05634	290.78835	44.81580	7.53706	0.1358844	0.27936963	2.3174832	21	—	—
220060 2002 RT_{136}	16.6	X	103.57590	286.09514	118.37166	8.06235	0.1487341	0.28286841	2.2983337	21	1 15.5	19.0
220061 2002 RA_{141}	16.6	X	98.97058	283.08286	77.62365	6.27854	0.1670796	0.27687529	2.3313810	21	—	—
220062 2002 RY_{143}	17.6	X	152.89040	57.81792	251.25229	2.92323	0.2700334	0.28047396	2.3113960	21	—	—
220063 2002 RF_{144}	17.0	X	85.09590	126.79607	275.94361	3.17348	0.1970583	0.27912145	2.3188567	21	—	—
220064 2002 RX_{145}	16.9	X	58.95212	304.88036	111.46634	2.40379	0.1936100	0.27701028	2.3306235	21	—	—
220065 2002 RX_{151}	17.5	X	169.99915	124.65039	219.17893	7.62420	0.2069612	0.28606373	2.2811868	21	1 22.4	21.1
220066 2002 RD_{153}	16.8	X	159.30935	9.66696	291.97187	6.33096	0.1133437	0.27847495	2.3224442	21	—	—
220067 2002 RP_{153}	16.1	X	122.42853	91.09016	282.36563	5.58081	0.1370315	0.28121585	2.3073290	21	—	—
220068 2002 RX_{154}	16.9	X	19.26760	88.97566	331.73425	6.24991	0.2335361	0.26912640	2.3759202	21	—	—
220069 2002 RJ_{156}	17.0	X	272.59975	310.43449	315.04559	3.47220	0.1102033	0.29079726	2.2563641	21	1 22.8	20.1
220070 2002 RT_{160}	17.2	X	78.48368	256.28587	155.49961	4.34080	0.1124127	0.28100773	2.3084681	21	—	—
220071 2002 RX_{161}	17.3	X	93.75585	30.59102	16.50543	2.77435	0.1489311	0.28216565	2.3021483	21	1 3.1	19.5
220072 2002 RY_{166}	17.6	X	132.86976	159.55010	171.07334	2.24350	0.1333888	0.27893809	2.3198728	21	—	—
220073 2002 RH_{174}	17.3	X	137.13279	51.35119	293.46648	3.66039	0.1683895	0.28148923	2.3058348	21	—	—
220074 2002 RB_{194}	16.9	X	186.55259	302.69968	350.97752	6.21215	0.1339904	0.28263848	2.2995800	21	—	—
220075 2002 RT_{201}	16.0	X	189.62534	357.23591	25.48791	3.88154	0.1570648	0.18926717	3.0043638	21	4 7.6	20.8
220076 2002 RF_{209}	17.0	X	251.84388	260.47537	3.32914	8.02177	0.1212216	0.28677412	2.2774180	21	—	—
220077 2002 RK_{209}	17.2	X	194.80942	273.28158	0.82732	6.54923	0.1131982	0.27959998	2.3162101	21	—	—
220078 2002 RK_{212}	16.5	X	152.25133	225.45423	86.27009	8.26605	0.1683761	0.27869272	2.3212342	21	—	—
220079 2002 RB_{216}	17.1	X	211.18585	157.40346	113.75742	5.74787	0.2106474	0.28443590	2.2898821	21	—	—
220080 2002 RX_{222}	17.2	X	176.85943	219.86380	95.49640	3.54136	0.1863766	0.28400254	2.2922109	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
220081 2002 RC_{230}	17.0	X	89.47795	285.80786	101.59239	7.37364	0.2087473	0.27679446	2.3318348	21	—	—
220082 2002 RY_{243}	17.3	X	295.44095	262.80552	319.13297	5.01154	0.0639390	0.28886902	2.2663940	21	—	—
220083 2002 RN_{273}	17.3	X	334.61239	210.14953	345.28972	4.98273	0.1081308	0.29068326	2.2569540	21	1 6.5	19.9
220084 2002 SQ_{1}	17.4	X	103.32778	195.93953	190.73260	4.88775	0.2517731	0.27944879	2.3170455	21	1 7.2	19.6
220085 2002 SH_{6}	16.4	X	73.56177	29.86842	28.47368	7.85891	0.0847290	0.27945639	2.3170035	21	—	—
220086 2002 ST_{6}	17.0	X	100.64315	264.23069	163.74566	5.55639	0.1431160	0.28390873	2.2927158	21	2 11.5	19.4
220087 2002 SG_{10}	17.4	X	57.45310	219.05145	197.58755	1.88344	0.1862999	0.27546518	2.3393305	21	—	—
220088 2002 SB_{16}	15.3	X	132.45360	138.19079	285.32354	16.23645	0.1361680	0.18271618	3.0757524	21	3 23.6	20.3
220089 2002 SF_{20}	17.3	X	84.12561	24.63100	11.29483	3.55000	0.1263161	0.27826030	2.3236384	21	—	—
220090 2002 SH_{31}	16.6	X	175.90957	124.93481	157.69974	5.62091	0.0738924	0.27695681	2.3309235	21	—	—
220091 2002 ST_{33}	16.9	X	146.70049	87.37617	217.90426	5.93748	0.2952217	0.27813931	2.3243122	21	—	—
220092 2002 SM_{37}	17.4	X	150.33207	142.72970	176.42271	4.78243	0.2568206	0.27939710	2.3173312	21	—	—
220093 2002 SJ_{38}	16.6	X	46.74584	63.65250	11.61742	7.21106	0.0642140	0.27880072	2.3206347	21	—	—
220094 2002 SC_{41}	16.5	X	144.09470	301.19491	52.31401	7.38550	0.1524173	0.28090284	2.3090427	21	1 4.4	19.6
220095 2002 SU_{41}	17.7	X	248.68091	117.42266	357.74386	5.41766	0.0992203	0.41750916	1.7729318	21	11 6.6	18.7
220096 2002 SR_{42}	17.4	X	71.81342	87.43443	341.50618	1.97993	0.1840914	0.27929099	2.3179181	21	—	—
220097 2002 SM_{45}	17.5	X	80.52745	3.06092	14.10709	2.37102	0.2350510	0.27439875	2.3453876	21	—	—
220098 2002 SG_{48}	17.0	X	87.58877	349.58225	48.07157	3.95391	0.1638444	0.27852870	2.3221454	21	—	—
220099 2002 SG_{49}	16.2	X	180.11472	169.35354	156.13853	7.15657	0.1346568	0.28336026	2.2956733	21	1 5.2	19.6
220100 2002 SC_{55}	17.1	X	122.19177	331.86356	43.05855	4.67831	0.2418042	0.28251791	2.3002342	21	1 18.8	19.8
220101 2002 SK_{57}	17.1	X	116.36752	296.17750	76.37656	4.16591	0.2604363	0.28015800	2.3131335	21	1 10.3	19.6
220102 2002 SX_{63}	16.9	X	128.53503	302.07313	100.07384	5.26984	0.1080121	0.28826952	2.2695351	21	2 11.6	19.6
220103 2002 TK_{14}	16.3	X	122.43007	350.83697	21.55687	7.12368	0.1247913	0.28290219	2.2981508	21	—	—
220104 2002 TY_{17}	17.3	X	72.75490	67.14364	19.43813	4.80034	0.1897484	0.28193795	2.3033876	21	1 29.5	19.1
220105 2002 TL_{20}	16.7	X	157.34911	66.93734	203.42438	5.55784	0.2228110	0.27448888	2.3448742	21	—	—
220106 2002 TE_{25}	16.8	X	118.62305	136.18471	180.19414	5.36330	0.1493643	0.27315261	2.3525154	21	—	—
220107 2002 TN_{25}	16.9	X	167.50076	93.42985	221.28537	2.75141	0.2467591	0.28126904	2.3070381	21	—	—
220108 2002 TZ_{25}	16.6	X	214.93601	82.28551	195.21395	5.98697	0.0892415	0.28057486	2.3108418	21	—	—
220109 2002 TJ_{29}	17.2	X	92.79424	307.31687	48.75948	2.82219	0.2303491	0.27413072	2.3469162	21	—	—
220110 2002 TF_{32}	16.6	X	66.35247	210.87171	204.93435	4.82366	0.2302162	0.27536920	2.3398740	21	—	—
220111 2002 TH_{32}	16.5	X	55.93518	54.28738	343.23472	1.79593	0.1165561	0.27240188	2.3568357	21	—	—
220112 2002 TZ_{32}	16.9	X	135.95881	261.39250	50.01745	5.18780	0.1518949	0.27598929	2.3363679	21	—	—
220113 2002 TF_{38}	17.4	X	87.73919	194.94817	182.89918	2.85883	0.2411147	0.27467648	2.3438064	21	—	—
220114 2002 TF_{39}	16.2	X	79.83953	353.02676	24.59801	7.84114	0.1258242	0.27238151	2.3569533	21	—	—
220115 2002 TC_{40}	16.6	X	41.97699	28.97095	18.80780	4.19969	0.2126587	0.26906386	2.3762883	21	—	—
220116 2002 TU_{44}	16.6	X	84.77609	290.78784	45.09136	7.26830	0.1557733	0.26967002	2.3727261	21	—	—
220117 2002 TQ_{46}	16.7	X	42.61003	67.08578	34.50805	12.32316	0.1681040	0.27709255	2.3301622	21	—	—
220118 2002 TO_{47}	16.8	X	53.17006	26.05958	34.06474	6.16660	0.2051260	0.27340607	2.3510613	21	—	—
220119 2002 TV_{47}	16.3	X	57.81846	302.43467	46.83672	7.69407	0.1334342	0.26651221	2.3914316	21	—	—
220120 2002 TU_{52}	16.9	X	92.55825	194.96175	202.99188	4.90632	0.2499518	0.27607033	2.3359106	21	1 4.6	18.9
220121 2002 TL_{57}	16.1	X	20.05298	260.11366	209.96523	10.07759	0.1031619	0.27534976	2.3399841	21	—	—
220122 2002 TJ_{58}	16.9	X	120.81176	74.57061	254.28773	3.61081	0.1637470	0.27550274	2.3391178	21	—	—
220123 2002 TR_{60}	15.5	X	54.67106	334.81461	87.19900	25.67096	0.2657708	0.27306646	2.3530102	21	—	—
220124 2002 TE_{66}	18.5	X	180.98839	290.56266	191.00681	51.34105	0.3779526	0.56046162	1.4569304	21	7 30.2	22.2
220125 2002 TT_{66}	16.2	X	143.56820	13.85085	25.94450	25.55175	0.2040523	0.28651591	2.2787861	21	3 21.8	19.8
220126 2002 TT_{71}	16.8	X	57.89304	155.99813	270.96991	6.50504	0.1699373	0.27643448	2.3338588	21	—	—
220127 2002 TD_{77}	17.2	X	172.21462	167.74899	233.84948	2.90260	0.1576667	0.29053037	2.2577457	21	4 5.3	20.7
220128 2002 TG_{77}	16.1	X	275.54353	147.39923	358.93266	7.09279	0.1516878	0.26685934	2.3893573	21	12 29.2	18.6
220129 2002 TX_{77}	17.0	X	120.63223	96.64383	261.79988	1.27653	0.2555731	0.27881055	2.3205802	21	—	—
220130 2002 TB_{78}	17.3	X	66.07764	180.55351	219.18680	3.20840	0.1290359	0.27502258	2.3418396	21	—	—
220131 2002 TF_{81}	16.3	X	152.78306	173.28994	143.88867	6.64299	0.1997464	0.27819393	2.3240080	21	—	—
220132 2002 TO_{87}	16.7	X	127.84235	142.96911	183.28653	6.40970	0.1029963	0.27538106	2.3398068	21	—	—
220133 2002 TO_{90}	16.4	X	92.32790	116.81874	229.06257	5.29894	0.1379149	0.27228645	2.3575018	21	—	—
220134 2002 TL_{98}	17.4	X	122.10061	247.84413	164.00955	2.91427	0.0571326	0.28629342	2.2799665	21	2 6.4	19.9
220135 2002 TX_{102}	16.4	X	172.43645	25.33387	300.44501	3.20378	0.1585549	0.28272336	2.2991197	21	—	—
220136 2002 TS_{104}	16.5	X	171.12304	269.12580	343.57033	7.55115	0.1699049	0.27288942	2.3540278	21	—	—
220137 2002 TH_{112}	16.8	X	184.37354	267.81603	53.24614	4.52297	0.1350689	0.28518093	2.2858921	21	1 4.6	20.1
220138 2002 TV_{114}	16.1	X	178.67462	2.94588	291.73701	6.65982	0.1136280	0.27920472	2.3183956	21	—	—
220139 2002 TW_{119}	16.8	X	87.45804	58.17983	312.48518	6.19467	0.1188670	0.27460903	2.3441902	21	—	—
220140 2002 TG_{128}	16.5	X	76.48527	169.29416	257.85453	5.42298	0.0876039	0.28131296	2.3067980	21	—	—
220141 2002 TA_{130}	16.4	X	156.20996	49.22533	320.34927	6.51675	0.1256528	0.28536592	2.2849041	21	2 4.3	19.5
220142 2002 TC_{133}	17.2	X	61.37129	127.38048	304.96544	3.45298	0.2230410	0.27756930	2.3274932	21	—	—
220143 2002 TO_{134}	16.5	X	137.70901	70.31783	261.02432	5.51436	0.1315757	0.27820104	2.3239684	21	—	—
220144 2002 TP_{134}	16.5	X	107.58245	66.19520	311.21215	6.04288	0.1190882	0.27901194	2.3194634	21	—	—
220145 2002 TU_{147}	17.4	X	121.60947	44.45187	281.01290	2.25753	0.1436432	0.27510252	2.3413859	21	—	—
220146 2002 TW_{156}	17.3	X	151.14865	85.25551	239.68408	5.85775	0.1364642	0.28081640	2.3095165	21	—	—
220147 2002 TQ_{162}	16.2	X	155.85751	207.26457	135.71374	11.21399	0.2419981	0.28177856	2.3042561	21	1 13.8	19.7
220148 2002 TK_{170}	16.0	X	186.76286	78.55665	244.68001	9.98253	0.2184915	0.28538805	2.2847860	21	1 13.2	19.8
220149 2002 TQ_{170}	14.4	X	335.40175	131.89076	260.52347	13.43156	0.0557980	0.15677989	3.4062445	21	10 11.5	19.2
220150 2002 TQ_{197}	17.2	X	109.63039	34.27298	290.76099	1.49615	0.2015011	0.27366722	2.3495653	21	—	—
220151 2002 TY_{197}	16.0	X	129.73614	120.42933	214.26267	6.00770	0.1623254	0.27662736	2.3327738	21	—	—
220152 2002 TR_{200}	16.8	X	156.67413	87.47102	236.95105	4.77876	0.2136341	0.28098017	2.3086190	21	—	—
220153 2002 TF_{206}	16.5	X	107.76244	346.87181	9.38103	7.30355	0.1234789	0.27533340	2.3400768	21	—	—
220154 2002 TZ_{214}	16.8	X	64.41623	301.06965	115.49582	5.63478	0.2147081	0.27558465	2.3386544	21	—	—
220155 2002 TZ_{219}	16.7	X	69.07196	280.25207	114.62862	9.59318	0.1732496	0.27491930	2.3424261	21	—	—
220156 2002 TN_{221}	16.8	X	42.03003	127.25260	227.66299	4.89965	0.1952403	0.26677319	2.3898717	21	—	—
220157 2002 TK_{228}	16.8	X	166.33977	238.04074	111.62444	6.07252	0.1827776	0.28321043	2.2964829	21	1 27.2	20.0
220158 2002 TJ_{243}	16.9	X	104.87411	273.36046	25.88021	4.20318	0.1514365	0.26865378	2.3787059	21	12 30.9	20.7
220159 2002 TV_{247}	17.3	X	163.89718	102.92796	203.02052	11.12185	0.2931799	0.27984489	2.3148586	21	—	—
220160 2002 TA_{251}	16.4	X	71.31835	120.01477	224.20820	5.77929	0.1458294	0.26732706	2.3865696	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
220161 2002 TD_{252}	16.8	X	158.68861	251.33021	60.35390	4.66544	0.0992672	0.27832732	2.3232654	21	—	—
220162 2002 TW_{254}	17.1	X	135.34568	193.05909	157.40092	4.73389	0.2591343	0.27952535	2.3166224	21	1 4.3	20.2
220163 2002 TF_{258}	17.4	X	50.52516	218.69874	187.82974	2.09833	0.2227980	0.27169749	2.3609074	21	—	—
220164 2002 TQ_{270}	17.8	X	84.03514	37.33133	351.42246	5.05342	0.2056513	0.27620126	2.3351724	21	—	—
220165 2002 TF_{271}	16.1	X	111.99075	93.61177	261.95622	3.92581	0.1159742	0.27653507	2.3332928	21	—	—
220166 2002 TF_{274}	16.4	X	146.30602	112.09068	234.36076	5.15366	0.1435904	0.28007901	2.3135684	21	—	—
220167 2002 TV_{280}	16.6	X	153.00249	71.99853	271.66817	4.47799	0.1505426	0.28042599	2.3116595	21	1 1.4	19.6
220168 2002 TL_{282}	16.6	X	8.82941	192.63944	246.95818	6.38923	0.1026182	0.27009281	2.3702493	21	—	—
220169 2002 TY_{283}	17.4	X	132.09534	7.32705	359.95793	5.45674	0.2962317	0.28057326	2.3108506	21	1 29.2	20.5
220170 2002 TW_{284}	16.2	X	120.77525	330.40994	19.37380	9.28688	0.1401102	0.27569614	2.3380238	21	—	—
220171 2002 TB_{285}	16.7	X	351.40194	130.68120	294.15156	3.63052	0.0851605	0.26542480	2.3979588	21	—	—
220172 2002 TA_{298}	16.6	X	112.19159	118.99036	238.79805	4.04254	0.1752647	0.27803658	2.3248847	21	—	—
220173 2002 TE_{302}	16.1	X	6.16885	186.46938	260.18720	5.90021	0.0737643	0.27178987	2.3603724	21	—	—
220174 2002 TH_{323}	17.3	X	249.62296	79.69163	191.83349	3.30762	0.0960721	0.28715133	2.2754231	21	1 6.6	20.4
220175 2002 TK_{335}	17.5	X	324.34624	294.84110	166.96102	6.88696	0.0963048	0.26914271	2.3758242	21	—	—
220176 2002 TY_{376}	16.8	X	55.30751	59.37131	29.97789	7.20549	0.0940193	0.27844465	2.3226127	21	—	—
220177 2002 UT_{5}	15.9	X	43.87788	252.12333	164.54107	13.59581	0.0902846	0.22109216	2.7086558	21	—	—
220178 2002 UJ_{7}	16.5	X	131.10871	202.76518	124.93400	7.56067	0.1554067	0.27551496	2.3390487	21	—	—
220179 2002 UM_{10}	16.7	X	30.93214	321.74919	106.83889	3.15060	0.1825535	0.27100125	2.3649494	21	—	—
220180 2002 UC_{17}	15.8	X	143.90591	181.55318	227.51248	24.68229	0.2311121	0.28577594	2.2827181	21	3 19.5	19.7
220181 2002 UY_{27}	16.0	X	74.74495	293.71767	70.34954	11.96610	0.1961461	0.27095949	2.3651924	21	—	—
220182 2002 UD_{34}	16.9	X	87.35178	133.59144	217.41041	13.03882	0.2494109	0.27224173	2.3577600	21	—	—
220183 2002 UO_{39}	15.0	X	85.92670	304.32731	74.50665	5.65096	0.1029584	0.16807152	3.2519208	21	—	—
220184 2002 UR_{52}	17.0	X	135.53539	310.96481	73.77672	6.43860	0.0340374	0.28330529	2.2959702	21	1 17.2	19.7
220185 2002 UA_{57}	15.8	X	349.13124	35.39222	167.96393	10.33650	0.0773851	0.23452413	2.6042202	21	2 23.2	19.1
220186 2002 UH_{71}	17.3	X	107.34328	29.73950	309.60267	1.83585	0.2489010	0.27433489	2.3457516	21	—	—
220187 2002 UZ_{72}	16.7	X	109.82696	307.04226	32.62378	4.78144	0.1467399	0.27429689	2.3459682	21	—	—
220188 2002 VF_{3}	16.5	X	286.86378	201.60919	279.39200	1.77508	0.1683755	0.26199446	2.4188446	21	12 8.7	18.7
220189 2002 VR_{4}	17.3	X	125.88899	134.00511	227.28211	3.39474	0.2514169	0.27850070	2.3223011	21	1 6.0	20.0
220190 2002 VM_{8}	16.7	X	92.71555	137.04943	267.46508	6.58190	0.1252855	0.27805434	2.3247857	21	—	—
220191 2002 VS_{8}	15.4	X	284.49195	66.08241	265.86599	8.67748	0.0928944	0.19174023	2.9784745	21	5 16.5	19.5
220192 2002 VL_{11}	16.9	X	61.29787	297.06248	49.81824	3.24045	0.2398523	0.26721345	2.3872460	21	—	—
220193 2002 VZ_{16}	17.0	X	103.93945	114.37836	271.56900	3.99595	0.2029119	0.27768994	2.3268191	21	—	—
220194 2002 VK_{17}	16.3	X	353.36853	5.53950	77.16093	5.60318	0.1876390	0.26554472	2.3972368	21	—	—
220195 2002 VF_{20}	16.5	X	39.79073	241.53329	216.76569	5.87277	0.0843154	0.27605394	2.3360031	21	—	—
220196 2002 VH_{20}	16.5	X	118.47482	284.10321	51.99733	6.75041	0.2568214	0.27458757	2.3443123	21	—	—
220197 2002 VO_{21}	16.5	X	357.34963	117.45008	322.14262	2.86053	0.2273149	0.26745273	2.3858219	21	—	—
220198 2002 VG_{23}	17.6	X	70.61735	63.59659	333.24168	1.88228	0.2154565	0.27312095	2.3526972	21	—	—
220199 2002 VK_{23}	16.8	X	7.05734	192.85863	276.74377	1.76901	0.1473807	0.27171399	2.3608119	21	—	—
220200 2002 VU_{23}	16.8	X	79.37026	104.95145	267.91121	2.27833	0.1677865	0.27147765	2.3621819	21	—	—
220201 2002 VK_{24}	17.2	X	20.93492	354.30970	94.12688	1.55439	0.1798315	0.27087718	2.3656715	21	—	—
220202 2002 VZ_{25}	17.1	X	89.99615	137.49975	230.83240	1.73820	0.2055099	0.27316529	2.3524426	21	—	—
220203 2002 VA_{26}	17.7	X	43.25789	143.94475	275.82685	1.23111	0.1774234	0.27137605	2.3627714	21	—	—
220204 2002 VP_{26}	17.5	X	69.14101	141.64922	258.52363	2.12454	0.2231766	0.27300409	2.3533686	21	—	—
220205 2002 VH_{30}	16.7	X	350.63786	199.55397	230.62597	5.58951	0.0833585	0.26450169	2.4035348	21	—	—
220206 2002 VY_{37}	16.4	X	105.57001	244.75307	90.56435	7.00910	0.1715612	0.27291551	2.3538778	21	—	—
220207 2002 VY_{40}	17.4	X	85.59923	69.23689	291.83386	2.85240	0.2248119	0.27217365	2.3581531	21	—	—
220208 2002 VT_{44}	16.4	X	26.76519	329.04868	69.91945	7.39116	0.2363020	0.26691221	2.3890418	21	—	—
220209 2002 VY_{47}	16.9	X	126.99931	186.56658	204.52546	3.47026	0.2454526	0.28013165	2.3132786	21	2 13.7	20.0
220210 2002 VO_{48}	16.4	X	51.64917	292.11175	70.38376	7.36661	0.1266688	0.26538158	2.3982191	21	—	—
220211 2002 VJ_{54}	16.4	X	13.60056	29.82844	6.60112	9.99093	0.0378388	0.26466141	2.4025677	21	—	—
220212 2002 VD_{64}	16.3	X	323.11148	105.42078	345.25808	4.70598	0.1792878	0.26342637	2.4100713	21	—	—
220213 2002 VY_{76}	16.8	X	342.13667	336.43712	114.19342	4.00319	0.1559569	0.26582234	2.3955674	21	—	—
220214 2002 VW_{78}	17.1	X	62.66724	210.89686	180.31611	4.29105	0.2478347	0.27129719	2.3632293	21	—	—
220215 2002 VF_{87}	17.0	X	79.93419	42.74707	329.92300	3.15621	0.2017500	0.27199390	2.3591919	21	—	—
220216 2002 VG_{88}	17.3	X	73.73096	110.80407	320.69989	1.58993	0.1865446	0.27810677	2.3244935	21	1 6.8	18.8
220217 2002 VS_{89}	16.5	X	123.54080	238.06926	109.99626	6.78977	0.2194249	0.27670136	2.3323579	21	—	—
220218 2002 VL_{97}	16.4	X	7.16635	91.51682	341.90340	4.86630	0.0698083	0.21581454	2.7526368	21	—	—
220219 2002 VM_{99}	15.9	X	338.93657	113.54073	10.35458	22.13752	0.3353148	0.26622128	2.3931736	21	—	—
220220 2002 VV_{99}	16.5	X	194.69009	85.39455	341.58011	24.82163	0.0720192	0.39770930	1.8312974	21	5 15.9	19.4
220221 2002 VA_{100}	16.4	X	341.21610	79.35628	35.99236	7.57485	0.0674899	0.27052577	2.3677197	21	—	—
220222 2002 VQ_{107}	16.4	X	78.78784	138.11428	255.45605	5.73233	0.1048612	0.27297642	2.3535276	21	—	—
220223 2002 VM_{108}	16.8	X	107.19933	32.05863	342.73595	2.76248	0.2550454	0.27603377	2.3361169	21	—	—
220224 2002 VJ_{111}	17.0	X	74.36315	264.18956	115.05830	6.68041	0.1594410	0.27172552	2.3607451	21	—	—
220225 2002 VH_{123}	15.8	X	28.16417	53.63836	327.51547	6.15519	0.1216345	0.21170602	2.7881358	21	—	—
220226 2002 VC_{126}	16.4	X	46.70586	34.59040	28.89919	8.90388	0.2346418	0.27011454	2.3701222	21	—	—
220227 2002 VO_{126}	16.7	X	82.38344	255.21497	96.77567	8.75856	0.2454193	0.27033791	2.3688165	21	—	—
220228 2002 VQ_{134}	17.7	X	67.77362	28.81327	339.44421	2.01703	0.2394904	0.27017462	2.3697708	21	—	—
220229 Hegedüs	16.9	X	60.67186	53.90931	334.63092	5.25843	0.1319506	0.27155685	2.3617225	21	—	—
220230 2002 VT_{143}	16.8	X	106.87273	111.51967	191.51299	2.24919	0.1660948	0.26738961	2.3861974	21	—	—
220231 2002 WC_{2}	16.9	X	337.20729	17.33138	91.08861	3.69349	0.1510493	0.26687130	2.3892860	21	—	—
220232 2002 WA_{10}	17.3	X	80.14530	312.58074	68.57926	2.99849	0.2290391	0.27254000	2.3560394	21	—	—
220233 2002 WU_{14}	17.2	X	30.73480	238.45442	153.64096	5.22882	0.1933043	0.26598666	2.3945807	21	—	—
220234 2002 WY_{23}	17.0	X	89.80403	258.76254	70.19897	5.41655	0.2040433	0.26784571	2.3834877	21	—	—
220235 2002 XK_{3}	17.2	X	40.74149	254.88451	151.08167	2.78921	0.1871187	0.26894418	2.3769933	21	—	—
220236 2002 XS_{8}	17.5	X	47.72025	222.05888	201.43332	2.08251	0.1911799	0.27183292	2.3601233	21	—	—
220237 2002 XC_{13}	17.6	X	115.84459	200.57248	225.80543	1.72654	0.1644818	0.28230304	2.3014013	21	3 7.4	20.2
220238 2002 XS_{13}	17.3	X	336.99711	317.07630	144.14348	2.90915	0.1486134	0.26518859	2.3993825	21	—	—
220239 2002 XG_{15}	15.3	X	138.09813	134.48242	268.18754	15.20844	0.2439976	0.18044250	3.1015360	21	3 15.9	20.7
220240 2002 XF_{23}	16.7	X	123.31961	41.18290	306.86584	7.12848	0.2900482	0.27643498	2.3338560	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
220241 2002 XF_{25}	16.7	X	285.64649	59.93837	91.07409	3.31418	0.1152081	0.26358422	2.4091090	21	—	—
220242 2002 XY_{28}	17.3	X	33.82146	307.36368	97.49379	2.31328	0.1808350	0.26679871	2.3897194	21	—	—
220243 2002 XJ_{31}	17.3	X	8.67642	51.34821	1.03477	2.90914	0.1796035	0.26452541	2.4033911	21	—	—
220244 2002 XV_{42}	17.5	X	19.37640	38.33040	46.36801	2.02310	0.1579445	0.26960739	2.3730935	21	—	—
220245 2002 XR_{45}	17.2	X	22.73978	60.72199	333.02034	1.74748	0.1936286	0.26373688	2.4081792	21	—	—
220246 2002 XZ_{55}	16.1	X	320.68623	252.99976	200.68877	8.82555	0.1825936	0.25892158	2.4379449	21	—	—
220247 2002 XK_{64}	16.4	X	335.10398	317.28315	99.81690	7.96953	0.0975884	0.25886443	2.4383037	21	12 8.9	19.0
220248 2002 XU_{67}	17.1	X	318.12349	276.31347	171.42185	2.95277	0.1596074	0.26035349	2.4289978	21	12 23.5	19.1
220249 2002 XD_{75}	16.8	X	349.59887	39.33518	37.46082	3.00358	0.1603496	0.26341265	2.4101550	21	—	—
220250 2002 XG_{76}	16.7	X	15.36818	29.59913	47.87100	3.99139	0.2037622	0.26689943	2.3891181	21	—	—
220251 2002 XN_{77}	16.8	X	44.43558	139.20376	279.55632	5.89366	0.1154758	0.26961742	2.3730347	21	—	—
220252 2002 XO_{82}	16.7	X	89.13310	209.21057	179.47846	7.61865	0.1933204	0.27366331	2.3495877	21	—	—
220253 2002 XG_{93}	17.2	X	29.93661	38.95598	29.47343	1.91078	0.1596519	0.26901913	2.3765518	21	—	—
220254 2002 XB_{97}	17.2	X	1.91222	135.60228	279.00323	1.58895	0.1582204	0.26383207	2.4075999	21	—	—
220255 2002 XH_{107}	16.0	X	6.95151	276.35129	78.28788	12.32852	0.1285441	0.25472942	2.4646201	21	11 9.9	18.7
220256 2002 XK_{118}	17.1	X	31.69815	215.71953	145.19021	2.97003	0.2309150	0.26370264	2.4083877	21	—	—
220257 2002 XR_{119}	16.9	X	81.71566	253.62544	76.33800	2.60196	0.1919115	0.26679888	2.3897183	21	—	—
220258 2002 YT_{8}	16.7	X	306.72992	307.95465	150.88385	2.52864	0.1733495	0.25896875	2.4376488	21	12 15.3	18.6
220259 2002 YD_{9}	16.8	X	339.93654	13.19860	74.80526	2.33295	0.1647318	0.26230914	2.4169097	21	—	—
220260 2002 YH_{9}	16.4	X	318.23576	176.74787	270.48023	4.50625	0.0749641	0.25866555	2.4395534	21	12 21.7	19.1
220261 2002 YJ_{11}	16.1	X	305.08279	335.40437	106.92034	6.78500	0.1040256	0.25685589	2.4509984	21	11 22.9	18.6
220262 2002 YW_{18}	16.5	X	321.36028	346.73570	132.09379	2.76275	0.1603194	0.26384575	2.4075167	21	—	—
220263 2003 AZ_{11}	16.0	X	175.51388	267.98404	249.70863	8.74038	0.0897211	0.24379402	2.5377803	21	9 5.9	19.9
220264 2003 AZ_{19}	16.8	X	10.42204	349.83707	65.35106	6.08729	0.1809793	0.26328989	2.4109040	21	—	—
220265 2003 AK_{28}	16.3	X	273.64951	125.80738	284.01866	10.17669	0.0645337	0.24475134	2.5311584	21	8 16.7	19.6
220266 2003 AN_{28}	17.0	X	9.97227	306.79487	155.08951	2.51867	0.1661643	0.26688362	2.3892124	21	—	—
220267 2003 AG_{37}	16.4	X	339.48927	193.79405	249.18567	4.78166	0.1442994	0.26085298	2.4258960	21	—	—
220268 2003 AL_{39}	16.4	X	44.68215	100.59307	282.57790	9.58713	0.1947221	0.26286131	2.4135239	21	—	—
220269 2003 AP_{43}	16.8	X	72.00381	14.17084	22.09393	2.80959	0.2052980	0.27091215	2.3654679	21	—	—
220270 2003 AQ_{44}	16.6	X	59.56749	48.81020	344.02688	5.17206	0.2131412	0.26808484	2.3820701	21	—	—
220271 2003 AS_{55}	17.0	X	342.89470	2.28551	82.46725	3.47688	0.1324420	0.26024666	2.4296625	21	—	—
220272 2003 AL_{68}	17.0	X	339.37133	346.40582	121.36139	3.71669	0.1309402	0.26306326	2.4122885	21	—	—
220273 2003 AS_{74}	16.9	X	1.71633	89.10239	350.92114	6.01930	0.1423618	0.26381098	2.4077283	21	—	—
220274 2003 AE_{76}	15.9	X	143.72067	170.48521	349.84660	13.75041	0.1212650	0.24003587	2.5642003	21	8 15.4	19.9
220275 2003 AD_{79}	17.1	X	346.17717	218.08838	201.31235	1.79735	0.1807241	0.25775491	2.4452959	21	—	—
220276 2003 AT_{87}	16.7	X	339.72753	199.18765	251.27329	5.28680	0.1643632	0.26141474	2.4224194	21	—	—
220277 2003 BC_{14}	16.0	X	108.33069	235.66998	282.65524	5.90559	0.0416478	0.23464531	2.6033234	21	6 18.8	19.4
220278 2003 BE_{14}	16.5	X	322.05658	273.19550	128.92046	8.97096	0.1313733	0.25164336	2.4847292	21	10 26.4	19.1
220279 2003 BH_{18}	16.5	X	46.31635	282.34022	122.43196	4.26910	0.2056998	0.26394329	2.4069235	21	—	—
220280 2003 BB_{42}	16.0	X	84.51269	229.65434	330.87584	4.59899	0.1663496	0.23387880	2.6090084	21	8 3.5	19.6
220281 2003 BA_{47}	15.5	X	66.96286	45.44700	101.65921	14.89206	0.0319346	0.22523834	2.6753124	21	4 14.8	19.3
220282 2003 BP_{48}	16.6	X	339.06489	278.57454	151.85980	7.66657	0.2090800	0.25701962	2.4499574	21	—	—
220283 2003 BL_{64}	16.8	X	327.07382	166.17976	270.73001	0.68856	0.1583632	0.25747393	2.4470746	21	12 24.9	18.8
220284 2003 BT_{68}	16.4	X	346.00267	300.02622	156.18308	9.83161	0.2184910	0.25992611	2.4316596	21	—	—
220285 2003 BS_{69}	16.0	X	76.86367	138.41174	89.38636	3.37667	0.1106035	0.23766781	2.5812048	21	8 23.2	19.4
220286 2003 BE_{73}	16.5	X	311.36981	151.51867	267.88405	8.06661	0.1786570	0.25158179	2.4851346	21	10 18.7	18.9
220287 2003 BR_{77}	16.9	X	56.16529	217.82053	224.97523	5.15225	0.1941127	0.27080029	2.3661193	21	—	—
220288 2003 BH_{79}	15.6	X	4.75565	224.57714	340.59003	9.53312	0.1787079	0.22334955	2.6903740	21	3 15.5	18.4
220289 2003 BP_{81}	16.4	X	101.74798	90.63185	126.29026	5.11091	0.0738432	0.24035611	2.5619222	21	9 4.4	19.8
220290 2003 BF_{89}	17.4	X	305.56330	124.55751	323.09132	3.58945	0.1846525	0.25275548	2.4774353	21	11 21.1	19.7
220291 2003 CW_{3}	15.2	X	34.08156	358.75696	142.00807	26.00541	0.1339111	0.21713581	2.7414589	21	2 14.4	18.2
220292 2003 CZ_{8}	16.4	X	340.46204	243.11438	224.50337	4.86945	0.2197265	0.26195604	2.4190811	21	—	—
220293 2003 CA_{10}	16.7	X	303.28448	268.78504	179.52850	6.86472	0.1765947	0.25429549	2.4674230	21	11 21.4	19.0
220294 2003 CV_{15}	15.6	X	105.46874	289.77372	284.46459	12.77634	0.0601706	0.23817991	2.5775037	21	8 26.8	19.4
220295 2003 CU_{18}	16.0	X	153.60646	194.27047	359.37315	12.44848	0.1772315	0.24216726	2.5491326	21	10 2.3	20.3
220296 2003 CX_{20}	16.7	X	160.05135	302.90842	204.74026	4.63272	0.0708889	0.23175643	2.6249126	21	8 8.6	20.6
220297 2003 CA_{21}	16.4	X	31.91923	220.76582	302.92713	3.00651	0.0501506	0.22056129	2.7130004	21	3 10.2	19.7
220298 2003 DB_{18}	16.6	X	154.95134	106.95524	54.12220	3.65969	0.1209900	0.23932947	2.5692435	21	8 25.8	20.5
220299 2003 EE_{1}	17.5	X	113.74584	138.38597	349.54698	17.56827	0.0431538	0.38796631	1.8618301	21	4 21.7	19.5
220300 2003 EP_{2}	16.4	X	171.65271	299.12066	155.39220	15.01896	0.0884113	0.23258486	2.6186760	21	6 16.2	20.6
220301 2003 EQ_{5}	15.6	X	323.14858	46.04568	165.33978	7.94109	0.2277659	0.21340055	2.7733564	21	1 10.4	19.4
220302 2003 EX_{11}	15.6	X	312.45815	255.16184	338.00264	10.37774	0.1582525	0.21467803	2.7623433	21	2 5.9	19.3
220303 2003 EC_{13}	16.9	X	169.92840	235.80059	306.47850	3.89241	0.2105386	0.24138161	2.5546609	21	10 1.6	21.3
220304 2003 EQ_{14}	16.9	X	194.09811	114.82837	37.12443	6.39500	0.1013541	0.24294000	2.5437243	21	9 25.1	20.6
220305 2003 EN_{17}	17.3	X	98.35280	247.16390	179.89901	22.13895	0.0939601	0.37626767	1.9002239	21	1 1.2	19.4
220306 2003 ET_{26}	16.2	X	325.05541	219.01807	357.91881	4.07197	0.1688749	0.21549113	2.7553903	21	1 30.2	19.7
220307 2003 EW_{29}	16.9	X	216.05800	313.16347	158.29425	4.22104	0.1277154	0.24212824	2.5494065	21	8 22.5	20.8
220308 2003 EK_{32}	16.6	X	198.27849	209.67161	299.49009	3.11541	0.1143082	0.24278576	2.5448015	21	9 21.2	20.5
220309 2003 EZ_{36}	16.6	X	297.89159	207.81367	2.96198	21.49960	0.0372359	0.37541179	1.9031109	21	—	—
220310 2003 ER_{38}	15.7	X	24.32717	287.21534	258.76633	11.56601	0.1015367	0.22155860	2.7048528	21	3 24.2	19.1
220311 2003 EU_{42}	15.8	X	144.73732	338.87694	180.65569	7.83076	0.1365770	0.23437628	2.6053152	21	8 10.1	19.9
220312 2003 EX_{42}	13.1	X	350.73556	206.70869	182.96428	13.58990	0.1149537	0.08355564	5.1818582	21	10 24.9	19.4
220313 2003 EH_{45}	15.9	X	284.78797	33.38077	210.15124	7.35898	0.1663328	0.21167798	2.7883820	21	1 14.7	20.3
220314 2003 EC_{47}	16.2	X	159.20318	318.35629	224.88580	11.99903	0.2205335	0.23927565	2.5696288	21	9 22.2	20.9
220315 2003 EZ_{59}	17.0	X	87.16659	80.46081	10.16162	23.75008	0.1109406	0.37893808	1.8912860	21	2 7.4	19.0
220316 2003 EL_{60}	16.2	X	173.18525	48.07301	130.58457	4.07080	0.1457213	0.24234204	2.5479068	21	10 5.1	20.2
220317 2003 EC_{62}	16.1	X	303.46054	356.36500	336.52442	10.15875	0.0748727	0.23165829	2.6256539	21	6 14.7	19.7
220318 2003 EG_{63}	12.7	X	66.83684	302.19472	23.37911	11.14893	0.0249275	0.08485803	5.1287015	21	11 6.6	19.5
220319 2003 FK_{8}	17.1	X	171.12309	4.53295	2.97720	19.35830	0.0853071	0.37652127	1.8993706	21	2 6.7	19.5
220320 2003 FU_{10}	16.5	X	235.13118	268.25020	37.50972	4.16700	0.0806018	0.21309050	2.7760460	21	2 18.3	20.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
220321 2003 FR_{12}	14.9	X	27.23052	223.49087	4.68734	22.49999	0.0214300	0.22855155	2.6493943	21	5 20.3	18.8
220322 2003 FN_{25}	16.0	X	246.58995	293.59602	6.56887	8.69032	0.1103718	0.21558890	2.7545572	21	2 22.1	20.2
220323 2003 FO_{27}	16.5	X	311.82860	151.31846	200.91443	3.65226	0.0250635	0.23333598	2.6130531	21	7 30.4	19.9
220324 2003 FA_{32}	12.8	X	301.34345	66.34395	18.78172	8.01960	0.0686310	0.08485133	5.1289714	21	10 22.3	19.5
220325 2003 FV_{40}	17.3	X	315.78020	70.84859	37.59187	6.81435	0.1799594	0.25644462	2.4536182	21	—	—
220326 2003 FS_{66}	16.3	X	183.48653	307.87740	170.13973	14.41970	0.1361809	0.23447589	2.6045773	21	7 25.9	20.6
220327 2003 FQ_{82}	15.9	X	35.92416	81.43377	131.46148	4.77517	0.1451473	0.22270587	2.6955554	21	6 2.2	18.8
220328 2003 FO_{97}	15.9	X	337.23399	216.77082	9.38788	6.14875	0.0603816	0.21786785	2.7353146	21	3 15.2	19.4
220329 2003 FJ_{110}	15.5	X	187.19003	310.84438	342.38340	6.42043	0.1311158	0.20294047	2.8678534	21	—	—
220330 2003 FZ_{119}	15.6	X	138.26719	299.75893	177.35045	16.41811	0.1980909	0.17665280	3.1457367	21	6 17.4	21.0
220331 2003 FG_{124}	16.3	X	7.35804	39.55795	181.54697	2.90645	0.0424571	0.22364789	2.6879809	21	4 21.7	19.6
220332 2003 FR_{130}	16.2	X	146.36989	341.58762	216.19544	12.56719	0.0972809	0.23700360	2.5860252	21	9 27.7	20.2
220333 2003 FM_{133}	13.8	X	210.19815	335.65888	203.18177	2.86726	0.0658787	0.08308210	5.2015297	21	10 27.7	20.9
220334 2003 GV_{3}	15.9	X	342.94047	220.04760	10.67229	4.06003	0.0635105	0.21855371	2.7295890	21	3 28.1	19.1
220335 2003 GD_{8}	12.8	X	281.75754	87.05375	15.61765	15.01540	0.0665793	0.08406749	5.1608034	21	10 17.9	19.6
220336 2003 GM_{8}	13.6	X	193.12731	291.61593	262.26753	1.11627	0.1110466	0.08288678	5.2096980	21	10 25.2	20.9
220337 2003 GY_{11}	17.2	X	154.25314	351.69550	157.34105	3.63031	0.0983498	0.23610641	2.5925722	21	8 6.2	21.0
220338 2003 GD_{14}	15.4	X	28.18283	227.39258	23.19955	13.49968	0.1152350	0.22909210	2.6452252	21	7 12.2	18.7
220339 2003 GX_{16}	15.6	X	336.76065	56.94225	143.56386	12.66354	0.1023262	0.21368757	2.7708725	21	2 2.9	19.2
220340 2003 GA_{18}	16.7	X	202.71833	45.61205	342.84448	1.27706	0.1018674	0.22254953	2.6968177	21	4 23.8	20.9
220341 2003 GY_{20}	16.0	X	54.42911	191.20008	17.35891	9.07969	0.1527456	0.22444575	2.6816069	21	6 29.6	19.3
220342 2003 GP_{27}	13.4	X	293.86901	93.55801	2.89470	3.36766	0.0637142	0.08488318	5.1276885	21	10 26.4	20.0
220343 2003 GZ_{34}	15.6	X	178.12160	249.43435	184.18874	21.67379	0.0590704	0.22461960	2.6802231	21	5 27.1	19.9
220344 2003 GK_{41}	15.9	X	336.22156	78.54047	187.25122	11.29991	0.0303643	0.22153717	2.7050273	21	5 9.6	19.5
220345 2003 GG_{44}	15.4	X	120.11242	146.86338	113.41673	15.64731	0.2863313	0.18444884	3.0564603	21	11 26.5	21.0
220346 2003 GR_{51}	15.9	X	200.43263	320.48196	28.72437	5.47093	0.0677205	0.21551396	2.7551956	21	3 6.8	20.1
220347 2003 GH_{54}	15.7	X	55.53059	227.41143	286.04513	8.17064	0.1682822	0.22040500	2.7142827	21	4 10.6	18.9
220348 2003 HB_{5}	16.3	X	76.11870	75.24296	105.28640	4.81349	0.1466113	0.22297596	2.6933783	21	6 22.0	19.8
220349 2003 HK_{11}	16.4	X	262.99428	57.70884	248.39487	2.11275	0.0774120	0.21633855	2.7481901	21	3 18.1	20.2
220350 2003 HN_{13}	16.4	X	199.16147	166.39941	122.36225	3.11726	0.0349941	0.20272487	2.8698863	21	—	—
220351 2003 HK_{22}	12.8	X	224.32726	312.43186	208.24923	11.81198	0.0190382	0.08193908	5.2497907	21	10 26.3	19.7
220352 2003 HQ_{23}	16.6	X	263.81147	29.17471	21.04294	9.86368	0.1399096	0.23567093	2.5957650	21	7 30.1	20.3
220353 2003 HH_{55}	15.5	X	338.14400	198.91191	357.50305	11.82487	0.2331317	0.21194664	2.7860251	21	1 15.2	19.2
220354 2003 JP_{1}	15.6	X	13.61874	149.45085	62.60985	10.21348	0.0868935	0.21731424	2.7399581	21	4 21.7	18.9
220355 2003 JG_{11}	13.5	X	252.63338	125.25907	0.57262	1.40615	0.1590227	0.08110434	5.2857503	21	10 1.8	20.7
220356 2003 JJ_{15}	13.0	X	207.60021	333.17204	203.61607	11.43602	0.0370419	0.08186006	5.2531684	21	10 25.0	20.0
220357 2003 MP_{4}	15.3	X	138.48055	152.13038	149.06250	5.10987	0.1392830	0.18667058	3.0321601	21	—	—
220358 2003 MR_{4}	15.0	X	109.18365	21.17947	276.97486	15.15449	0.2842876	0.18133317	3.0913716	21	12 26.9	20.4
220359 2003 NN_{1}	14.8	X	64.93440	68.09047	273.51029	13.16593	0.2055981	0.17742892	3.1365565	21	—	—
220360 2003 NV_{2}	14.8	X	102.70725	343.07003	311.74736	16.28262	0.1872768	0.17885942	3.1198102	21	12 12.3	20.0
220361 2003 NL_{5}	16.8	X	123.86901	210.91375	269.33362	2.42977	0.0640556	0.21890469	2.7266706	21	5 21.8	20.6
220362 2003 NK_{6}	15.0	X	31.98258	106.37777	241.81989	24.70432	0.2567879	0.17226381	3.1989443	21	12 7.4	19.1
220363 2003 NN_{6}	15.6	X	93.21647	172.35822	179.42345	9.42590	0.1714857	0.18362664	3.0655772	21	—	—
220364 2003 NT_{12}	15.4	X	69.50732	192.66236	127.81066	7.68223	0.1783541	0.17613088	3.1519480	21	12 10.1	20.2
220365 2003 NX_{12}	15.7	X	50.24421	180.88247	156.94060	16.34984	0.2683564	0.17447656	3.1718404	21	12 21.1	20.6
220366 2003 OO_{4}	15.1	X	13.66259	222.95269	141.31036	8.10500	0.1556637	0.17386008	3.1793338	21	11 18.8	19.1
220367 2003 OO_{8}	15.2	X	60.86068	190.83248	115.22508	18.46592	0.2493416	0.17404048	3.1771365	21	11 26.8	20.2
220368 2003 OV_{8}	15.3	X	180.89157	59.00342	190.35828	13.47966	0.0641797	0.18469145	3.0537832	21	12 30.2	20.1
220369 2003 OZ_{9}	15.4	X	128.05423	106.38048	155.93195	11.40684	0.0853118	0.17836844	3.1255327	21	11 24.3	20.3
220370 2003 OO_{12}	14.3	X	77.12580	81.21042	265.71695	20.56139	0.3390500	0.17736773	3.1372778	21	—	—
220371 2003 OR_{12}	15.0	X	57.59945	183.48093	227.86991	16.61485	0.3079521	0.18339861	3.0681178	21	—	—
220372 2003 ON_{14}	14.6	X	70.77399	79.98666	240.57929	14.47125	0.2077278	0.17551862	3.1592737	21	12 13.5	19.4
220373 2003 OB_{15}	15.0	X	82.51383	14.67857	292.18191	14.47388	0.2672600	0.17527884	3.1621543	21	12 15.2	20.2
220374 2003 OV_{24}	15.2	X	66.11107	145.28590	260.96888	4.56742	0.0966647	0.18820752	3.0156301	21	—	—
220375 2003 OO_{26}	15.5	X	359.81154	90.10556	299.67078	9.56354	0.0814497	0.17488823	3.1668609	21	11 18.2	19.8
220376 2003 OX_{32}	14.9	X	54.40068	188.75303	191.18608	10.81197	0.1710251	0.17884568	3.1199699	21	—	—
220377 2003 PV	14.6	X	59.82446	11.95257	335.97019	22.36466	0.2266052	0.17461124	3.1702092	21	—	—
220378 2003 QQ	15.0	X	13.28503	30.91136	316.34035	12.53139	0.0298575	0.17008279	3.2262336	21	10 6.1	19.6
220379 2003 QF_{4}	14.8	X	19.42419	96.79962	309.28981	8.99510	0.0838563	0.17884910	3.1199302	21	—	—
220380 2003 QO_{22}	14.8	X	52.81395	61.45024	325.61625	15.76001	0.0600584	0.17960857	3.1111290	21	—	—
220381 2003 QF_{23}	14.4	X	309.25034	137.02265	331.97254	16.25083	0.0644742	0.17564024	3.1578151	21	12 16.4	18.9
220382 2003 QD_{30}	14.8	X	27.07117	4.47455	343.35743	19.38958	0.1382581	0.17254734	3.1954391	21	11 4.7	19.3
220383 2003 QO_{42}	14.8	X	123.64461	274.61572	335.48184	14.64062	0.0716300	0.17193940	3.2029668	21	10 25.6	19.9
220384 2003 QN_{44}	14.9	X	76.73098	38.78870	323.22436	10.86811	0.2739921	0.18036697	3.1024018	21	—	—
220385 2003 QU_{45}	14.7	X	34.13318	357.86148	344.21372	21.05073	0.0350829	0.17115103	3.2127951	21	10 23.4	19.5
220386 2003 QK_{46}	15.1	X	68.49355	320.70527	49.66991	3.79707	0.0818616	0.18034146	3.1026944	21	—	—
220387 2003 QN_{48}	15.8	X	2.17373	12.65415	6.10853	0.41234	0.1459312	0.17006695	3.2264338	21	11 14.1	19.5
220388 2003 QK_{51}	14.9	X	13.97108	312.22501	127.61792	5.76292	0.3049500	0.17711395	3.1402740	21	—	—
220389 2003 QE_{68}	14.8	X	154.69767	283.28169	330.77265	14.30024	0.2002674	0.18041740	3.1018237	21	12 6.9	20.3
220390 2003 QE_{69}	14.6	X	97.25538	324.12521	356.45510	17.86870	0.2502698	0.17848093	3.1242193	21	—	—
220391 2003 QM_{72}	14.5	X	7.28932	136.60724	276.71459	11.23631	0.1896361	0.17542848	3.1603558	21	—	—
220392 2003 QN_{73}	15.0	X	41.26394	53.83315	315.10279	10.68240	0.0681961	0.17706253	3.1408819	21	12 19.9	19.5
220393 2003 QN_{88}	17.2	X	55.54374	355.34080	4.69444	24.22861	0.1219164	0.39470995	1.8405629	21	—	—
220394 2003 QR_{98}	15.5	X	342.83626	120.74305	345.40519	4.66056	0.1293690	0.18157805	3.0885916	21	—	—
220395 2003 QJ_{109}	14.6	X	103.20151	347.25193	308.25782	16.30499	0.1800418	0.17533612	3.1614656	21	12 12.6	19.9
220396 2003 RR_{4}	14.7	X	30.02647	109.14515	273.33045	15.52529	0.1432408	0.17490274	3.1666858	21	12 30.8	19.0
220397 2003 RK_{10}	15.7	X	149.60546	65.05787	182.46480	0.80619	0.1409192	0.17681602	3.1438005	21	11 26.3	20.7
220398 2003 RC_{11}	15.1	X	69.60643	134.61296	259.14652	7.40366	0.2280186	0.18258210	3.0772581	21	—	—
220399 2003 RA_{16}	14.7	X	131.82111	314.36331	342.05027	15.72879	0.1006157	0.17933734	3.1142650	21	—	—
220400 2003 RF_{20}	15.1	X	19.43642	287.18598	166.54055	12.29110	0.2969851	0.18004238	3.1061294	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
220401 2003 SM_{23}	14.4	X	47.94539	35.67342	306.71397	8.18718	0.1979030	0.17151804	3.2082105	21	12 12.7	18.9
220402 2003 SJ_{38}	14.6	X	280.68088	143.77647	260.78659	9.57215	0.1441991	0.15719405	3.4002588	21	8 3.2	19.5
220403 2003 SH_{48}	14.7	X	39.68743	13.88813	355.04728	6.58475	0.1334061	0.17235657	3.1977965	21	12 25.7	19.1
220404 2003 SP_{55}	14.8	X	49.31067	123.01121	206.81230	6.94070	0.1064131	0.17008056	3.2262617	21	11 17.2	19.2
220405 2003 SY_{55}	14.9	X	22.77461	144.62818	246.21976	5.51689	0.0502871	0.17457656	3.1706290	21	12 19.5	19.3
220406 2003 SG_{56}	14.7	X	299.72281	172.74399	283.16921	6.00500	0.0951272	0.17136408	3.2101317	21	11 11.8	19.0
220407 2003 SP_{58}	14.9	X	20.25896	125.24354	264.96763	10.47083	0.1450474	0.17407212	3.1767515	21	12 26.9	18.9
220408 2003 SG_{66}	14.9	X	58.90268	318.32215	92.05028	6.57337	0.1624578	0.18085688	3.0967966	21	—	—
220409 2003 SQ_{76}	14.8	X	23.28118	215.24510	196.63834	18.41843	0.1847397	0.17379305	3.1801513	21	—	—
220410 2003 SM_{89}	14.7	X	184.79465	351.76706	228.82744	13.10696	0.0458120	0.17386925	3.1792221	21	12 1.3	19.5
220411 2003 SN_{122}	15.2	X	41.93128	172.26696	216.89790	12.32825	0.1416106	0.17742002	3.1366614	21	—	—
220412 2003 SL_{128}	14.9	X	257.03359	50.64052	355.57890	7.24220	0.1204604	0.15395300	3.4478149	21	7 15.7	20.0
220413 2003 SD_{193}	15.0	X	71.93420	144.24354	232.72849	9.85774	0.0510955	0.17805222	3.1292322	21	—	—
220414 2003 SK_{193}	15.0	X	50.20692	225.42571	227.10627	11.94880	0.1748732	0.18584501	3.0411332	21	1 17.0	18.6
220415 2003 SW_{195}	15.2	X	62.96848	181.29616	238.88310	7.92578	0.0399456	0.18279081	3.0749152	21	—	—
220416 2003 SM_{196}	15.1	X	22.03766	173.24937	230.32151	3.84772	0.1945140	0.17241554	3.1970673	21	—	—
220417 2003 SS_{197}	14.9	X	142.91542	239.29104	15.53429	18.07688	0.1325247	0.17362450	3.1822091	21	11 23.1	20.2
220418 Golovyno	15.6	X	36.90830	357.48817	11.48771	8.88149	0.0409415	0.17265042	3.1941670	21	12 8.2	20.2
220419 2003 SL_{230}	15.7	X	76.33120	288.71227	93.00971	2.52732	0.1669678	0.18141004	3.0904983	21	—	—
220420 2003 SH_{231}	15.5	X	105.51990	294.99509	52.04261	5.76222	0.1366193	0.18097528	3.0954459	21	—	—
220421 2003 SU_{246}	15.0	X	332.63071	25.33029	27.91987	4.09511	0.1116409	0.16756828	3.2584283	21	11 7.3	19.0
220422 2003 SQ_{257}	15.4	X	320.07573	302.23614	127.54616	2.62381	0.0853192	0.16865989	3.2443536	21	11 11.6	19.6
220423 2003 SM_{284}	14.7	X	3.55927	209.74168	222.39489	10.81295	0.0364878	0.17715866	3.1397456	21	—	—
220424 2003 SE_{295}	15.1	X	7.91270	176.64111	219.90034	8.51759	0.0811195	0.17391167	3.1787051	21	12 10.1	19.3
220425 2003 SL_{304}	14.7	X	345.41550	145.58778	184.40567	10.32804	0.1000069	0.15706231	3.4021599	21	8 9.8	19.1
220426 2003 SD_{329}	15.1	X	211.38318	345.40758	183.12131	22.07710	0.0630992	0.17085070	3.2165592	21	10 30.1	20.0
220427 2003 TN_{46}	15.9	X	41.66859	96.76523	345.90063	7.29035	0.0731031	0.18175648	3.0865699	21	—	—
220428 2003 UJ_{3}	18.2	X	335.33393	150.81301	157.17647	2.30627	0.2249287	0.31922854	2.1203208	21	6 7.4	19.2
220429 2003 UD_{28}	15.1	X	18.27271	210.79896	248.05238	8.61570	0.0194412	0.18029227	3.1032586	21	—	—
220430 2003 UK_{28}	15.4	X	1.17670	38.70130	35.23798	10.40410	0.0869626	0.17427051	3.1743400	21	—	—
220431 2003 UH_{51}	15.3	X	28.78491	78.57662	328.93551	14.29933	0.1204944	0.17431571	3.1737913	21	—	—
220432 2003 UL_{61}	14.9	X	343.64360	65.94453	26.89300	25.69481	0.2242386	0.17369411	3.1813588	21	—	—
220433 2003 UC_{183}	15.1	X	265.01765	27.41513	13.47518	6.83384	0.1123845	0.15307114	3.4610445	21	7 19.6	20.1
220434 2003 UX_{211}	15.9	X	19.75918	124.69010	271.72056	0.75680	0.1415824	0.16946233	3.2341036	21	—	—
220435 2003 UX_{263}	14.4	X	273.80170	280.91397	118.12635	9.24723	0.1637552	0.15354456	3.4539266	21	7 18.9	19.3
220436 2003 UO_{283}	16.9	X	227.33082	72.68799	327.79633	3.96550	0.1270377	0.31256327	2.1503579	21	5 29.8	19.8
220437 2003 UD_{294}	15.0	X	307.31926	326.77788	237.66678	9.20859	0.0501287	0.18819106	3.0158060	21	1 11.9	19.4
220438 2003 WD_{7}	14.8	X	27.82076	268.34794	142.19179	25.86106	0.2622134	0.17452285	3.1712795	21	—	—
220439 2003 WL_{31}	14.8	X	285.30214	302.51432	234.49745	14.41858	0.0309124	0.17669657	3.1452172	21	—	—
220440 2003 WH_{41}	16.8	X	52.44376	243.51949	311.01669	2.66565	0.0987809	0.30648212	2.1787093	21	5 21.9	18.8
220441 2003 WC_{84}	15.2	X	34.40270	80.57655	12.70520	25.47907	0.2340755	0.17771842	3.1331493	21	—	—
220442 2003 WQ_{91}	15.3	X	346.04240	322.17370	121.01802	5.97821	0.1420925	0.16974058	3.2305683	21	—	—
220443 2003 WV_{145}	15.4	X	288.30643	96.41230	61.41915	10.83264	0.1067363	0.17024817	3.2241439	21	—	—
220444 2003 WL_{183}	17.1	X	0.52921	309.95856	335.12832	3.94998	0.0493299	0.31401454	2.1437273	21	7 10.3	19.1
220445 2003 WR_{194}	17.3	X	73.16901	108.47670	65.95902	5.48621	0.0646516	0.30792554	2.1718954	21	5 21.9	19.5
220446 2003 YX_{29}	16.8	X	66.55476	95.35191	29.19185	4.91813	0.1362846	0.29220300	2.2491216	21	3 8.1	18.7
220447 2003 YG_{40}	17.3	X	215.86873	254.92601	105.23558	4.68797	0.1713909	0.30129035	2.2036666	21	3 26.9	20.8
220448 2003 YF_{65}	16.3	X	139.58538	312.91202	105.44011	5.11427	0.1519729	0.29675454	2.2260648	21	3 26.1	19.3
220449 2003 YN_{109}	15.9	X	184.84776	25.01032	135.97393	12.90498	0.2064668	0.25970348	2.4330491	21	9 24.9	20.0
220450 2003 YW_{111}	15.0	X	49.36988	155.65587	315.69931	8.11925	0.0339927	0.18077162	3.0977703	21	2 3.9	19.3
220451 2003 YY_{111}	17.0	X	207.98143	10.39259	39.64064	4.92256	0.0734332	0.30901597	2.1667831	21	5 23.7	19.8
220452 2003 YN_{117}	17.2	X	256.14393	7.63901	4.00796	6.80824	0.2940348	0.31176752	2.1540154	21	5 4.7	20.8
220453 2003 YS_{120}	16.9	X	160.83075	352.73590	51.20047	6.47435	0.1443319	0.29828392	2.2184492	21	3 29.5	20.0
220454 2003 YD_{131}	17.2	X	106.18200	137.66475	325.37467	5.95508	0.1037339	0.29837969	2.2179745	21	3 31.3	19.7
220455 2003 YQ_{163}	17.9	X	258.44043	342.94174	47.58318	3.35640	0.1253948	0.31509482	2.1388248	21	6 23.8	20.6
220456 2004 AJ_{5}	16.9	X	127.89538	109.33055	329.80914	2.62866	0.1398906	0.29669070	2.2263841	21	4 3.8	19.8
220457 2004 BY_{10}	16.9	X	59.56803	137.97620	306.52486	6.15186	0.0997193	0.28515204	2.2860465	21	—	—
220458 2004 BJ_{20}	16.2	X	150.65095	259.05836	319.33374	7.84533	0.1782319	0.26181365	2.4199582	21	10 30.0	20.3
220459 2004 BA_{25}	17.1	X	173.86813	123.96930	281.54938	2.96031	0.1593420	0.30001144	2.2099248	21	4 10.8	20.4
220460 2004 BE_{30}	16.8	X	3.90638	133.54889	344.46017	3.91949	0.0694278	0.28089099	2.3091076	21	—	—
220461 2004 BD_{36}	14.7	X	43.44533	109.65955	59.39858	2.72492	0.0660247	0.12544247	3.9522067	21	4 17.9	19.9
220462 2004 BP_{36}	16.9	X	186.27831	299.36239	319.68520	6.03694	0.1244830	0.27420198	2.3465096	21	—	—
220463 2004 BA_{40}	16.6	X	198.95863	131.12843	279.73519	2.62989	0.1126948	0.30480275	2.1867046	21	5 13.7	19.7
220464 2004 BE_{40}	17.5	X	72.85171	327.22425	142.86554	3.16061	0.0879667	0.29152052	2.2526305	21	2 17.8	19.5
220465 2004 BF_{52}	17.0	X	222.14825	243.52846	331.54790	1.48186	0.1646247	0.27103914	2.3647290	21	—	—
220466 2004 BB_{58}	16.4	X	232.15865	270.70603	328.40863	5.74653	0.0625751	0.27570820	2.3379556	21	—	—
220467 2004 BN_{67}	16.8	X	303.28361	249.23147	294.74508	6.14924	0.0344509	0.28326364	2.2961953	21	—	—
220468 2004 BB_{71}	16.9	X	36.32286	141.10660	331.28365	3.87761	0.0800120	0.28534104	2.2850369	21	—	—
220469 2004 BU_{78}	17.4	X	198.26783	17.80259	21.19621	3.03639	0.1435820	0.30282037	2.1962376	21	4 27.0	20.4
220470 2004 BV_{97}	16.8	X	333.27311	274.63124	159.43820	7.08454	0.0813720	0.26674034	2.3900679	21	12 30.1	19.5
220471 2004 BL_{102}	16.7	X	341.70276	200.21096	300.65821	2.95679	0.1306411	0.27817724	2.3241010	21	—	—
220472 2004 BM_{103}	16.4	X	329.00566	357.88552	138.75745	7.46332	0.0646893	0.27770772	2.3267198	21	—	—
220473 2004 BN_{110}	16.5	X	254.77304	175.95956	31.48550	9.23186	0.1673922	0.27331226	2.3515992	21	—	—
220474 2004 BL_{140}	17.8	X	187.55196	98.01887	288.08617	2.24481	0.1874519	0.29983574	2.2107881	21	3 31.1	21.2
220475 2004 BD_{143}	17.7	X	225.31651	205.67231	41.27138	2.58417	0.1671351	0.27731859	2.3288958	21	—	—
220476 2004 CF_{4}	16.6	X	266.98780	218.52884	345.94833	6.24427	0.0554349	0.27836489	2.3230563	21	—	—
220477 2004 CS_{14}	16.3	X	238.85782	227.34351	328.42010	5.95382	0.0676663	0.27108169	2.3644815	21	—	—
220478 2004 CR_{15}	16.9	X	174.73475	152.18585	142.48400	5.13051	0.1523109	0.27586489	2.3370702	21	—	—
220479 2004 CR_{17}	17.2	X	23.26429	275.31502	152.11213	7.33262	0.0902396	0.27591813	2.3367696	21	—	—
220480 2004 CX_{17}	17.1	X	45.43276	104.67834	356.69254	4.43272	0.0964464	0.28506155	2.2865303	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
220481 2004 CE_{29}	16.9	X	97.38945	148.55124	127.87849	3.01187	0.1963811	0.26287053	2.4134675	21	11 28.3	20.7
220482 2004 CV_{35}	16.6	X	29.01907	190.29853	332.59254	3.11637	0.1166525	0.28930846	2.2640984	21	2 18.3	18.4
220483 2004 CX_{35}	17.0	X	319.41914	154.13113	335.59929	5.08180	0.1743201	0.27465904	2.3439056	21	—	—
220484 2004 CH_{55}	17.1	X	132.74624	321.14186	301.45991	1.42059	0.1424212	0.26236488	2.4165674	21	12 10.4	20.9
220485 2004 CF_{63}	16.7	X	89.43317	64.03904	58.17092	6.95311	0.0476396	0.29431587	2.2383445	21	3 31.8	19.2
220486 2004 CN_{77}	17.4	X	222.59184	245.19316	325.96677	2.04125	0.1394912	0.26976671	2.3721591	21	—	—
220487 2004 CT_{77}	17.6	X	60.16754	126.44226	306.54758	2.29184	0.1474629	0.28377659	2.2934275	21	—	—
220488 2004 CX_{81}	16.6	X	223.42299	301.09618	323.75507	5.76116	0.0842019	0.27926672	2.3180525	21	—	—
220489 2004 CJ_{84}	17.3	X	263.73206	173.39147	6.31469	1.27737	0.1298748	0.27274162	2.3548781	21	—	—
220490 2004 CR_{91}	16.4	X	287.42862	219.24935	280.55909	6.43242	0.0582876	0.27104989	2.3646665	21	—	—
220491 2004 CY_{120}	17.2	X	92.86063	3.60107	326.92422	3.58425	0.1783644	0.26873737	2.3782126	21	—	—
220492 2004 CJ_{123}	17.1	X	154.74582	281.23424	324.13525	2.26995	0.1530542	0.26373973	2.4081619	21	12 9.5	20.9
220493 2004 CD_{129}	16.6	X	78.03554	229.56157	89.50598	2.40060	0.2070393	0.26442490	2.4040001	21	—	—
220494 2004 DK	16.5	X	336.53265	304.57290	221.59431	5.22039	0.1334096	0.28051057	2.3111948	21	—	—
220495 Margarethe	16.0	X	50.97921	61.37604	8.78145	23.60190	0.2363999	0.28113202	2.3077876	21	—	—
220496 2004 DB_{1}	16.6	X	238.20094	227.93926	349.19504	3.94333	0.1851524	0.27171948	2.3607801	21	—	—
220497 2004 DD_{1}	17.3	X	297.40378	199.29710	330.78978	2.05783	0.1242560	0.27774950	2.3264864	21	—	—
220498 2004 DG_{5}	16.5	X	157.78564	137.70651	129.12730	4.55241	0.1496189	0.26648881	2.3915716	21	—	—
220499 2004 DD_{10}	16.5	X	330.27441	169.62035	343.18416	8.15966	0.1512965	0.27812695	2.3243811	21	—	—
220500 2004 DM_{11}	17.3	X	2.11742	344.10857	196.24529	2.41981	0.1005653	0.28705775	2.2759176	21	1 27.8	19.5
220501 2004 DB_{18}	17.4	X	272.80933	64.85650	115.69800	3.48134	0.1510454	0.27264525	2.3554330	21	—	—
220502 2004 DG_{21}	16.9	X	289.31996	217.25647	306.79343	3.25129	0.1094075	0.27284605	2.3542772	21	—	—
220503 2004 DP_{21}	16.5	X	243.69900	18.25757	207.18181	5.78704	0.0902346	0.27376337	2.3490152	21	—	—
220504 2004 DP_{31}	17.1	X	280.74844	20.82528	163.90036	8.99992	0.1013759	0.27651469	2.3334075	21	—	—
220505 2004 DL_{33}	16.4	X	218.06342	239.87465	1.50147	4.86700	0.1212387	0.27132479	2.3630690	21	—	—
220506 2004 DE_{35}	16.9	X	194.07535	326.36062	246.05291	4.63455	0.1597174	0.26496643	2.4007235	21	12 6.3	20.4
220507 2004 DH_{44}	17.3	X	256.46918	282.95137	285.81427	1.81767	0.1784522	0.27275309	2.3548121	21	—	—
220508 2004 DH_{47}	16.7	X	227.43898	10.46120	193.21973	6.19153	0.0769914	0.26873920	2.3782018	21	—	—
220509 2004 DA_{60}	17.2	X	65.20885	145.91568	322.04246	1.69500	0.1720799	0.28943954	2.2634147	21	2 9.5	18.8
220510 2004 EQ_{7}	17.0	X	255.50583	134.06757	30.14467	1.84494	0.1273609	0.26640267	2.3920872	21	12 24.0	19.5
220511 2004 ET_{9}	15.8	X	256.05843	8.95337	200.27845	23.63075	0.1853279	0.27086282	2.3657551	21	—	—
220512 2004 EH_{17}	16.3	X	241.91634	142.89167	60.98801	7.16016	0.0505773	0.26915155	2.3757722	21	—	—
220513 2004 EW_{19}	16.8	X	143.42641	133.70767	88.94664	5.62767	0.1405146	0.25541654	2.4601979	21	11 2.3	20.6
220514 2004 EF_{21}	17.1	X	114.44969	294.81747	2.17723	3.29645	0.1584020	0.26235723	2.4166144	21	—	—
220515 2004 EZ_{21}	16.4	X	323.86161	6.76048	157.42470	5.61352	0.0877074	0.27671362	2.3322890	21	—	—
220516 2004 ES_{29}	17.3	X	131.61382	247.52856	28.29680	1.44289	0.1668611	0.26167629	2.4208050	21	12 25.6	21.1
220517 2004 ER_{34}	16.6	X	278.89836	140.45277	56.16363	3.14503	0.1449741	0.27348815	2.3505908	21	—	—
220518 2004 EP_{43}	16.5	X	25.00025	167.54103	317.42040	7.33203	0.1399962	0.28115490	2.3076624	21	—	—
220519 2004 EG_{54}	16.6	X	91.64097	296.92548	8.41457	6.83672	0.1021190	0.26178102	2.4201593	21	12 20.4	20.2
220520 2004 EW_{62}	16.4	X	51.93114	107.23591	334.15797	8.16181	0.0615140	0.27995843	2.3142326	21	—	—
220521 2004 EF_{70}	16.9	X	178.58642	66.47614	169.66530	2.53694	0.1403178	0.26355784	2.4092697	21	12 21.7	20.6
220522 2004 EQ_{70}	16.9	X	103.45594	274.06927	351.93637	6.11432	0.0974759	0.25670513	2.4519580	21	11 10.3	20.6
220523 2004 EP_{73}	17.2	X	335.06925	111.62154	25.81987	2.47140	0.1670859	0.27590158	2.3368630	21	—	—
220524 2004 EH_{78}	16.6	X	208.42923	157.29051	81.33423	3.01970	0.0986321	0.26831426	2.3807121	21	—	—
220525 2004 ET_{83}	16.9	X	3.93002	61.32762	175.14585	18.55564	0.2105275	0.23399471	2.6081468	21	5 2.6	19.4
220526 2004 EA_{86}	16.7	X	94.99151	33.87527	82.79993	4.48018	0.1631751	0.29216120	2.2493361	21	4 19.6	19.1
220527 2004 EO_{96}	16.9	X	95.56393	176.62971	162.89338	6.59761	0.1435766	0.26926020	2.3751330	21	—	—
220528 2004 EC_{115}	17.2	X	21.89068	131.19275	329.85583	0.51637	0.0499157	0.27896387	2.3197299	21	—	—
220529 2004 FG_{18}	17.1	X	224.65546	273.45544	265.85523	1.25475	0.1549317	0.26360325	2.4089930	21	11 27.7	20.3
220530 2004 FT_{18}	13.4	X	79.19753	90.91123	206.52390	17.21263	0.0665797	0.08311030	5.2003528	21	10 27.7	20.3
220531 2004 FS_{23}	17.2	X	209.94661	63.39659	160.19503	2.49721	0.1295208	0.26665844	2.3905573	21	—	—
220532 2004 FK_{25}	16.9	X	19.38928	255.01893	242.75420	7.40951	0.1325254	0.28243214	2.3006999	21	—	—
220533 2004 FC_{31}	15.4	X	107.24605	26.41058	47.21618	29.13555	0.2074458	0.28745498	2.2738204	21	3 31.8	18.8
220534 2004 FC_{34}	16.3	X	24.65771	274.72039	341.95781	13.09382	0.2446026	0.23961210	2.5672227	21	8 2.7	18.6
220535 2004 FJ_{36}	15.9	X	214.24693	195.92635	41.17853	7.16450	0.0735908	0.26793056	2.3829845	21	—	—
220536 2004 FC_{41}	17.2	X	170.61372	298.54541	302.88325	0.44260	0.1501533	0.26210476	2.4181660	21	12 19.5	20.9
220537 2004 FA_{48}	17.2	X	71.55713	232.04665	246.65386	2.41725	0.0862039	0.28747023	2.2737400	21	2 27.5	19.4
220538 2004 FE_{55}	17.1	X	67.25824	188.22250	113.85984	3.13832	0.2099274	0.25624540	2.4548898	21	12 1.5	20.8
220539 2004 FO_{75}	17.3	X	99.82865	52.44303	322.95200	1.84485	0.1027555	0.27491504	2.3424503	21	—	—
220540 2004 FQ_{80}	16.8	X	205.91030	171.78799	42.10151	2.77188	0.1547078	0.26312835	2.4118907	21	12 20.6	20.3
220541 2004 FX_{110}	17.1	X	303.83718	305.12922	233.05860	1.01126	0.1271267	0.27450483	2.3447833	21	—	—
220542 2004 FL_{118}	16.5	X	350.65092	327.84097	172.60555	4.77928	0.0873257	0.27581913	2.3373287	21	—	—
220543 2004 FF_{124}	17.5	X	344.41223	174.30039	297.01671	0.95727	0.1410092	0.27272777	2.3549578	21	—	—
220544 2004 FB_{135}	17.0	X	97.18610	88.07622	323.85349	1.16103	0.1384797	0.28318132	2.2966403	21	1 14.1	19.3
220545 2004 FE_{142}	16.9	X	258.16691	12.70113	193.17816	2.28005	0.1513228	0.27070942	2.3666487	21	—	—
220546 2004 FE_{148}	16.5	X	150.07135	272.15022	6.65666	6.82751	0.1005511	0.26421795	2.4052553	21	—	—
220547 2004 FP_{158}	16.5	X	123.79084	152.81946	120.57090	3.72749	0.1872910	0.26276363	2.4141220	21	12 16.5	20.4
220548 2004 GW_{5}	16.4	X	273.32787	287.91952	261.72354	6.29191	0.0591786	0.27145573	2.3623090	21	—	—
220549 2004 GH_{8}	16.6	X	97.10210	22.24276	154.93885	3.63615	0.1371657	0.24026481	2.5625712	21	7 13.4	20.2
220550 2004 GP_{14}	16.2	X	249.14546	239.02080	19.76246	10.88587	0.3091630	0.21529859	2.7570327	21	—	—
220551 2004 GX_{20}	16.4	X	280.87871	302.57244	199.88209	5.92039	0.0797685	0.26588707	2.3951786	21	—	—
220552 2004 GD_{38}	16.0	X	343.50645	66.99229	199.39172	12.78121	0.2398190	0.22961753	2.6411883	21	4 25.4	18.5
220553 2004 GM_{39}	16.5	X	220.32778	203.12930	1.30130	2.28809	0.1522851	0.26295049	2.4129781	21	12 25.4	19.6
220554 2004 GW_{59}	16.6	X	298.97426	89.04712	211.70941	11.63799	0.2715163	0.22970087	2.6405493	21	3 24.7	20.6
220555 2004 GG_{82}	13.1	X	210.63831	152.90058	13.55798	8.69493	0.0252962	0.08360117	5.1799769	21	10 16.7	20.0
220556 2004 HN_{3}	16.3	X	6.28778	51.79237	185.80726	7.78886	0.1605012	0.23119477	2.6291622	21	5 10.3	18.8
220557 2004 HZ_{4}	17.1	X	141.04891	157.19748	61.93545	3.15460	0.1328790	0.25322224	2.4743900	21	10 25.1	20.8
220558 2004 HE_{5}	16.9	X	222.68563	71.92664	109.24822	2.32155	0.1092113	0.26087727	2.4257454	21	12 3.9	19.9
220559 2004 HB_{10}	16.3	X	54.76207	16.77199	204.36036	11.84355	0.0671963	0.23764798	2.5813484	21	7 2.7	19.8
220560 2004 HV_{10}	15.8	X	231.32692	251.65836	55.16263	10.05642	0.2614157	0.21883904	2.7272159	21	2 11.1	20.8

Planet		H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
		m		°	°	°	°		°				
220561	2004 HN_{17}	17.0	X	308.91390	297.60515	214.98284	1.64009	0.1055513	0.27102615	2.3648045	21	—	—
220562	2004 HM_{18}	16.3	X	308.03305	292.12127	349.56179	5.31159	0.2000706	0.22890690	2.6466517	21	3 22.9	19.8
220563	2004 HT_{19}	16.1	X	63.63342	324.53164	38.19630	9.86198	0.0689131	0.26224162	2.4173246	21	—	—
220564	2004 HX_{19}	16.7	X	8.33820	86.53828	174.87130	1.87141	0.1319422	0.23728732	2.5839634	21	6 18.6	19.2
220565	2004 HD_{22}	17.5	X	336.03237	317.32895	174.72808	2.04753	0.1417162	0.27280484	2.3545143	21	—	—
220566	2004 HQ_{26}	17.2	X	24.02224	124.64663	145.18673	4.84802	0.1528543	0.29811051	2.2193094	21	8 7.9	18.8
220567	2004 HJ_{37}	16.4	X	250.13400	192.95072	91.38927	10.76820	0.3360027	0.21733471	2.7397861	21	1 24.1	21.6
220568	2004 HT_{42}	15.8	X	286.69409	278.15838	17.40369	7.82781	0.2903353	0.22496597	2.6774714	21	3 8.8	20.0
220569	2004 HP_{47}	15.8	X	314.27602	191.67209	109.81477	15.73725	0.1023403	0.23386767	2.6090912	21	5 19.5	19.3
220570	2004 HB_{52}	13.0	X	351.72469	8.90426	31.83255	6.86135	0.0597755	0.08508247	5.1196783	21	11 5.2	19.5
220571	2004 HE_{53}	16.1	X	307.44976	285.45360	17.16660	12.68239	0.2721102	0.22926723	2.6438779	21	4 8.3	19.4
220572	2004 HZ_{54}	16.6	X	331.70106	120.59485	174.37015	12.63910	0.2433317	0.23312537	2.6146267	21	5 15.1	19.4
220573	2004 HF_{57}	17.0	X	341.46908	143.11783	161.04679	2.18340	0.0221290	0.23839585	2.5759470	21	7 7.4	20.1
220574	2004 HR_{57}	13.3	X	8.31568	334.27704	49.36133	2.94179	0.1072954	0.08168997	5.2604582	21	11 9.4	19.8
220575	2004 HF_{62}	15.8	X	341.07621	43.47547	243.49940	14.13985	0.1196995	0.23455052	2.6040248	21	6 4.7	18.7
220576	2004 HK_{62}	15.7	X	271.00092	185.09313	100.02089	11.46193	0.1893514	0.22264052	2.6960829	21	2 20.9	20.0
220577	2004 HS_{67}	17.1	X	314.58136	341.94120	158.62127	2.22696	0.1052552	0.27090190	2.3655276	21	—	—
220578	2004 JG	16.2	X	78.57017	190.77444	221.97408	23.45238	0.2153721	0.27315039	2.3525281	21	—	—
220579	2004 JX_{5}	16.0	X	310.08647	113.86436	169.37934	27.78020	0.2357484	0.22787848	2.6546086	21	3 24.8	19.6
220580	2004 JU_{7}	17.0	X	24.67015	260.38004	197.73515	3.91680	0.0938433	0.27309005	2.3528747	21	—	—
220581	2004 JV_{10}	16.7	X	358.19571	72.17917	180.58207	7.77281	0.1724249	0.23178988	2.6246601	21	5 15.7	19.3
220582	2004 JU_{22}	16.8	X	68.08039	340.97033	235.82349	3.80490	0.2113142	0.23826079	2.5769204	21	8 8.9	20.1
220583	2004 JF_{23}	16.6	X	146.21737	253.57909	53.91321	7.20086	0.1053456	0.26374136	2.4081520	21	—	—
220584	2004 JF_{28}	15.4	X	267.39881	278.52116	49.30998	12.69697	0.1960142	0.22604766	2.6689229	21	4 10.5	19.5
220585	2004 JG_{28}	16.7	X	57.94678	17.49764	255.32064	4.52507	0.1840444	0.24311583	2.5424976	21	10 6.3	20.0
220586	2004 JL_{36}	16.4	X	309.30889	162.00402	153.37533	5.34792	0.2054790	0.23104216	2.6303198	21	5 10.9	19.6
220587	2004 JB_{39}	16.0	X	23.81047	94.50607	169.11436	9.08078	0.2203020	0.23555660	2.5966049	21	8 1.4	18.5
220588	2004 KM_{10}	17.0	X	229.84326	331.25477	232.55687	1.66408	0.1583605	0.26244854	2.4160538	21	—	—
220589	2004 KZ_{12}	16.2	X	331.52213	81.47921	200.14730	11.78702	0.1048527	0.22992599	2.6388255	21	5 14.7	19.4
220590	2004 KE_{15}	16.0	X	318.01420	145.31381	157.26251	12.40716	0.1952244	0.23153080	2.6266177	21	5 10.6	19.3
220591	2004 LB_{4}	16.1	X	318.70515	96.96708	168.78629	11.29165	0.1911363	0.22580123	2.6708644	21	3 20.1	19.3
220592	2004 LY_{14}	16.5	X	345.23014	182.26986	141.89391	5.26269	0.1571701	0.23770165	2.5809599	21	8 6.9	18.8
220593	2004 LG_{23}	16.4	X	303.98427	293.62159	5.40719	3.46834	0.2058277	0.22432182	2.6825946	21	4 9.4	19.9
220594	2004 NQ_{4}	16.6	X	258.22658	228.21321	71.11490	4.39907	0.1783544	0.21655130	2.7463898	21	2 26.5	20.9
220595	2004 NR_{4}	15.7	X	249.37313	9.35726	268.88508	8.22224	0.2068297	0.21105282	2.7938856	21	1 20.6	20.4
220596	2004 NK_{6}	16.5	X	281.14347	91.15391	236.17756	3.91702	0.1259024	0.22375845	2.6870954	21	4 29.6	20.1
220597	2004 NP_{15}	15.6	X	259.92947	191.98508	133.98672	13.49722	0.1129855	0.21920993	2.7241388	21	4 10.9	19.8
220598	2004 NG_{17}	16.1	X	219.23856	178.09735	143.64415	9.62844	0.1375674	0.21124703	2.7921729	21	2 18.8	20.5
220599	2004 NY_{18}	17.0	X	220.57955	129.12735	179.11823	3.78482	0.2053206	0.21102255	2.7941527	21	2 2.0	21.8
220600	2004 NB_{23}	16.4	X	244.74097	132.76972	165.72070	8.89159	0.2735387	0.21277836	2.7787602	21	2 6.3	21.3
220601	2004 OP_{1}	16.0	X	242.27618	140.17014	145.18534	8.46195	0.2005013	0.21151628	2.7898029	21	1 24.2	20.8
220602	2004 OE_{8}	16.1	X	227.46226	353.50512	298.56756	7.07049	0.1998710	0.21005961	2.8026853	21	1 20.8	20.8
220603	2004 OX_{9}	16.4	X	216.54684	300.11847	24.41925	4.48088	0.1990699	0.21162517	2.7888458	21	2 20.2	21.1
220604	2004 PA_{1}	16.0	X	237.10586	22.72562	312.41754	3.90381	0.1644623	0.21473677	2.7618395	21	3 19.6	20.4
220605	2004 PB_{6}	16.0	X	225.47871	154.82624	170.60243	9.33978	0.1524938	0.21220400	2.7837720	21	2 27.2	20.4
220606	2004 PH_{6}	16.1	X	193.40201	188.54543	187.95120	5.06000	0.1723039	0.21294804	2.7772839	21	4 1.6	20.7
220607	2004 PY_{6}	15.7	X	229.91835	344.22643	317.08748	8.22514	0.1303069	0.20910235	2.8112326	21	2 4.7	20.3
220608	2004 PQ_{12}	16.3	X	191.47612	227.47190	148.60110	2.96398	0.2406590	0.21162925	2.7888099	21	4 1.3	21.2
220609	2004 PS_{14}	15.7	X	143.02359	9.94632	348.82594	13.29761	0.1862161	0.20112639	2.8850721	21	1 31.9	20.3
220610	2004 PY_{16}	15.8	X	134.49976	210.01000	163.14259	12.86314	0.1708866	0.20185186	2.8781552	21	2 2.4	20.2
220611	2004 PT_{20}	15.9	X	115.38334	223.48121	176.09442	8.29300	0.3253923	0.20013431	2.8945987	21	3 5.5	20.5
220612	2004 PQ_{21}	16.1	X	183.33675	252.82007	134.76891	5.76810	0.1674408	0.21371194	2.7706618	21	4 8.3	20.6
220613	2004 PC_{37}	16.3	X	331.15490	127.34265	158.30389	2.74048	0.1260680	0.22362829	2.6881380	21	5 16.9	19.3
220614	2004 PH_{54}	15.6	X	309.42753	320.77035	316.10356	11.38744	0.0568050	0.21766298	2.7370307	21	4 5.4	19.6
220615	2004 PL_{54}	16.2	X	211.91621	97.24116	231.17925	2.44681	0.1857036	0.20918693	2.8104747	21	2 18.6	20.9
220616	2004 PC_{57}	16.0	X	187.65438	179.02903	183.82038	4.32680	0.0876130	0.21126213	2.7920399	21	3 8.4	20.1
220617	2004 PT_{67}	16.7	X	315.88082	68.29501	199.71593	4.96151	0.1552611	0.22003071	2.7173600	21	3 23.9	20.2
220618	2004 PP_{77}	16.3	X	303.13786	88.73388	159.49886	13.64045	0.1093049	0.21422744	2.7662153	21	2 17.6	20.0
220619	2004 PJ_{78}	15.8	X	209.55770	178.58726	163.80771	10.35580	0.1868575	0.21187907	2.7866174	21	3 5.8	20.6
220620	2004 PA_{79}	15.2	X	132.60980	115.56121	242.64306	5.75606	0.1246130	0.19989294	2.8969283	21	1 8.8	19.4
220621	2004 PH_{83}	15.8	X	241.00660	306.03457	357.59951	9.05109	0.2022262	0.20988499	2.8042397	21	2 16.3	20.5
220622	2004 PH_{91}	14.4	X	44.70301	330.52299	39.98895	24.53294	0.1818914	0.18057295	3.1000421	21	—	—
220623	2004 PT_{93}	15.6	X	242.65785	132.83290	155.29953	14.00614	0.1479029	0.21115348	2.7929975	21	1 29.6	20.1
220624	2004 PY_{96}	15.5	X	218.31313	9.66048	336.71397	8.90471	0.1641645	0.21067744	2.7972033	21	3 16.4	20.2
220625	2004 PS_{97}	15.7	X	267.62336	77.98131	186.66601	8.43821	0.2358374	0.21216783	2.7840885	21	1 17.9	20.4
220626	2004 PT_{100}	16.3	X	169.26546	164.65095	176.66066	5.81002	0.0797055	0.20296435	2.8676284	21	1 22.4	20.6
220627	2004 PK_{102}	15.4	X	163.76226	138.71680	213.50937	5.56180	0.0746717	0.20333638	2.8641295	21	1 28.5	19.7
220628	2004 PK_{104}	16.0	X	16.99505	233.63229	24.51846	12.10287	0.1589974	0.22880975	2.6474008	21	7 4.4	18.9
220629	2004 PE_{105}	16.5	X	284.06510	311.16074	291.07130	3.06211	0.0531889	0.20887548	2.8132678	21	1 27.3	20.3
220630	2004 PQ_{105}	15.5	X	201.43850	72.84041	244.36235	12.09680	0.0759205	0.20549346	2.8440510	21	1 23.9	20.0
220631	2004 QH_{5}	15.5	X	163.20922	272.01657	114.95713	13.07041	0.1424622	0.20875591	2.8143419	21	3 22.4	20.1
220632	2004 QT_{14}	15.5	X	143.93733	159.91390	297.08522	11.35791	0.1672708	0.21558008	2.7546322	21	5 23.4	20.1
220633	2004 QV_{19}	15.5	X	192.61806	134.45111	241.80437	7.64757	0.1672971	0.21185374	2.7868395	21	3 28.8	20.1
220634	2004 QC_{25}	15.9	X	147.44256	27.26501	352.93508	1.48269	0.0846865	0.20347740	2.8628061	21	2 16.5	19.9
220635	2004 QQ_{25}	17.1	X	60.56352	140.86198	1.30877	20.74332	0.0505155	0.38594208	1.8683345	21	3 1.3	18.6
220636	2004 RL_{19}	16.0	X	37.55011	30.19462	8.38906	2.08658	0.0426567	0.19003962	2.9962171	21	—	—
220637	2004 RQ_{21}	16.6	X	298.49794	106.58334	172.30206	5.37896	0.0501575	0.21415386	2.7668489	21	4 2.0	20.3
220638	2004 RM_{31}	16.2	X	131.57563	252.06267	148.31649	7.86904	0.2679973	0.20333602	2.8641329	21	3 16.8	20.9
220639	2004 RT_{40}	15.1	X	110.17425	321.78241	116.92727	16.20394	0.1176699	0.20496788	2.8489107	21	3 28.3	19.4
220640	2004 RY_{40}	16.6	X	130.54365	171.41159	193.17471	1.72162	0.1061004	0.19913618	2.9042630	21	1 12.4	20.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
220641 2004 RT_{43}	16.3	X	196.91225	9.64439	335.75990	2.88661	0.1022315	0.20811600	2.8201080	21	2 25.9	20.5
220642 2004 RA_{52}	15.3	X	58.82781	228.93488	156.53719	10.49916	0.1029487	0.18974126	2.9993572	21	—	—
220643 2004 RR_{56}	15.6	X	93.84530	161.94730	239.59707	2.25541	0.1123528	0.19843653	2.9110856	21	1 12.8	19.4
220644 2004 RW_{57}	15.9	X	323.57532	59.92538	194.30767	8.85096	0.2491823	0.21795900	2.7345519	21	2 28.9	19.4
220645 2004 RR_{65}	15.7	X	181.44305	191.68846	168.67612	2.06358	0.0928202	0.20596989	2.8396635	21	2 28.3	19.9
220646 2004 RN_{68}	15.7	X	169.51346	323.75435	7.91156	10.00081	0.1204845	0.19968525	2.8989367	21	1 18.8	20.3
220647 2004 RY_{71}	15.7	X	67.06898	267.14152	174.66453	9.68193	0.0726555	0.20043540	2.8916991	21	1 19.3	19.5
220648 2004 RP_{83}	15.4	X	37.71790	28.41244	11.41584	15.44180	0.0766655	0.18570028	3.0427132	21	—	—
220649 2004 RG_{86}	15.9	X	242.51991	157.52951	171.78686	7.62254	0.1702776	0.21467565	2.7623637	21	3 19.1	20.2
220650 2004 RU_{93}	15.5	X	213.68040	99.46091	229.45899	6.17705	0.1273232	0.20877350	2.8141839	21	2 19.7	20.1
220651 2004 RK_{101}	15.1	X	31.72101	44.26870	337.83830	12.33526	0.0967954	0.18475577	3.0530743	21	12 30.4	19.4
220652 2004 RD_{104}	15.4	X	329.01828	204.24807	210.08500	9.39273	0.1808205	0.17704239	3.1411201	21	11 3.4	18.6
220653 2004 RH_{105}	15.5	X	321.96712	120.25085	320.88999	13.51387	0.1281061	0.18054097	3.1004081	21	11 25.5	19.5
220654 2004 RX_{122}	16.0	X	151.14684	51.17385	4.98158	6.72239	0.0947277	0.21075886	2.7964828	21	4 4.8	20.2
220655 2004 RG_{130}	16.3	X	331.48417	328.27166	174.15441	2.06000	0.0572292	0.19609330	2.9342304	21	—	—
220656 2004 RY_{138}	15.3	X	176.01087	82.86571	263.76387	11.33709	0.0887954	0.20429323	2.8551794	21	2 2.5	19.8
220657 2004 RA_{145}	15.9	X	132.68677	328.55246	26.95559	2.08044	0.0510262	0.19904659	2.9051344	21	—	—
220658 2004 RO_{148}	15.7	X	123.52447	244.99716	113.70626	3.45987	0.1057691	0.19563307	2.9388305	21	—	—
220659 2004 RN_{154}	15.4	X	55.92439	58.93805	326.94567	12.31900	0.0960006	0.18922720	3.0047869	21	—	—
220660 2004 RL_{163}	15.0	X	295.58201	107.89525	338.97728	21.23221	0.0995849	0.17444781	3.1721889	21	10 16.0	19.5
220661 2004 RJ_{164}	14.9	X	32.91811	77.49487	300.46463	11.47926	0.0502512	0.18246825	3.0785379	21	12 19.1	19.2
220662 2004 RW_{167}	15.4	X	45.58518	7.61021	8.45966	10.90047	0.1427516	0.18295533	3.0730716	21	—	—
220663 2004 RG_{179}	15.3	X	191.20244	302.06833	265.31536	8.46394	0.0871663	0.18377024	3.0639800	21	11 20.3	20.1
220664 2004 RU_{180}	15.3	X	30.21257	190.99489	233.66400	8.46699	0.0533472	0.19067744	2.9895317	21	—	—
220665 2004 RA_{187}	15.8	X	52.87580	82.82728	302.62195	10.03189	0.1317038	0.18745479	3.0236976	21	—	—
220666 2004 RN_{187}	15.2	X	61.15530	43.31287	322.70873	10.04835	0.2092294	0.18593229	3.0401815	21	—	—
220667 2004 RQ_{192}	14.9	X	123.82344	317.52010	326.81463	10.74581	0.0308138	0.18185957	3.0854033	21	12 10.1	19.6
220668 2004 RY_{197}	15.4	X	121.76622	123.93902	200.14333	9.82726	0.1013949	0.18987092	2.9979916	21	—	—
220669 2004 RT_{198}	15.3	X	79.61675	322.43618	351.45463	9.82695	0.1104861	0.18136096	3.0910558	21	12 3.2	20.0
220670 2004 RF_{200}	15.7	X	62.87766	165.11890	212.77331	18.93383	0.2599230	0.18516327	3.0485932	21	—	—
220671 2004 RK_{201}	15.1	X	351.19035	65.96380	335.72810	13.07013	0.1906825	0.17438833	3.1729101	21	11 25.5	18.9
220672 2004 RR_{201}	15.0	X	13.51771	1.63553	358.76749	8.51543	0.1842842	0.17640539	3.1486773	21	11 12.4	18.8
220673 2004 RQ_{208}	15.2	X	274.14641	348.12779	282.50004	13.71059	0.1384820	0.20915231	2.8107849	21	2 5.9	19.6
220674 2004 RC_{214}	15.4	X	107.66006	71.88734	297.89869	13.60884	0.0942995	0.19251161	2.9705129	21	—	—
220675 2004 RR_{216}	15.1	X	1.42420	50.86890	333.11499	22.22769	0.0316433	0.17834318	3.1258278	21	11 2.1	19.8
220676 2004 RL_{217}	14.8	X	1.87452	183.22359	245.36896	12.60900	0.0415136	0.18498370	3.0505659	21	—	—
220677 2004 RY_{218}	15.0	X	357.35577	42.02813	319.24254	11.66900	0.1420008	0.17308753	3.1887871	21	10 8.4	19.0
220678 2004 RB_{219}	15.0	X	101.20956	9.06053	335.52451	14.38885	0.2269859	0.18845098	3.0130323	21	—	—
220679 2004 RR_{220}	14.9	X	55.55722	335.17455	350.36460	18.05339	0.2165178	0.17833837	3.1258840	21	12 1.5	19.8
220680 2004 RV_{220}	15.1	X	3.33240	86.86005	309.08808	11.45596	0.1742405	0.17731254	3.1379287	21	12 12.6	18.9
220681 2004 RX_{220}	15.8	X	358.38781	66.54726	326.60889	14.12837	0.1790260	0.23497672	2.6008751	21	12 17.8	18.8
220682 2004 RY_{220}	15.4	X	31.44900	44.08900	325.01168	15.52501	0.1237662	0.17753213	3.1353406	21	12 14.9	19.8
220683 2004 RJ_{227}	15.3	X	128.54781	274.34246	334.78321	4.93665	0.1096559	0.17762999	3.1341890	21	11 6.2	20.2
220684 2004 RR_{229}	15.3	X	284.43889	132.16500	5.03614	8.36756	0.0549047	0.18227369	3.0807283	21	12 19.2	19.6
220685 2004 RG_{233}	15.8	X	46.00122	222.54687	141.27837	1.40058	0.0787791	0.18162500	3.0880593	21	12 21.6	20.2
220686 2004 RQ_{246}	15.5	X	30.20316	179.17019	194.11845	12.80609	0.1208313	0.18064142	3.0992586	21	12 18.4	19.8
220687 2004 RZ_{265}	16.1	X	62.18925	349.04047	48.52232	2.71273	0.1068639	0.19196994	2.9760980	21	—	—
220688 2004 RQ_{287}	15.3	X	97.68841	284.37906	19.15417	10.64199	0.1316833	0.18180413	3.0860306	21	12 12.3	20.2
220689 2004 RR_{287}	15.2	X	131.14185	277.65593	22.75238	9.94185	0.0834051	0.18571833	3.0425160	21	—	—
220690 2004 RQ_{290}	15.7	X	146.84871	351.89215	41.17074	13.05561	0.1939827	0.20348159	2.8627667	21	3 19.4	20.4
220691 2004 RY_{290}	16.0	X	59.19542	87.91279	326.07198	4.16171	0.2331132	0.19004014	2.9962116	21	—	—
220692 2004 RK_{292}	16.0	X	117.79601	157.47709	190.37506	11.06371	0.1584762	0.19284538	2.9670843	21	—	—
220693 2004 RN_{309}	15.2	X	345.20263	148.37935	267.86377	7.95878	0.0576272	0.18061224	3.0995925	21	12 2.2	19.1
220694 2004 RS_{309}	15.4	X	206.54619	327.84064	282.27261	7.98446	0.0109612	0.19156338	2.9803074	21	—	—
220695 2004 RY_{313}	15.5	X	28.00524	229.83519	183.68606	9.11599	0.0577555	0.18850024	3.0125073	21	—	—
220696 2004 RA_{316}	15.4	X	96.59087	222.94957	157.67024	9.88283	0.1335876	0.19263944	2.9691986	21	—	—
220697 2004 RC_{320}	14.7	X	106.63750	253.70455	340.41417	12.15330	0.0894147	0.17345829	3.1842416	21	9 23.7	19.4
220698 2004 RF_{322}	15.0	X	122.92206	264.93694	346.82929	25.05287	0.2280081	0.18199126	3.0839148	21	10 31.7	20.7
220699 2004 RL_{322}	15.3	X	339.72427	243.39053	231.19081	7.85620	0.0465067	0.18989274	2.9977619	21	—	—
220700 2004 RH_{323}	15.7	X	52.86530	48.24433	284.16698	7.10314	0.0826465	0.17921584	3.1156724	21	11 21.1	20.2
220701 2004 RX_{324}	15.2	X	102.10525	119.18503	234.61383	10.53117	0.1025936	0.18979530	2.9987879	21	—	—
220702 2004 RH_{325}	15.0	X	81.58699	350.83172	15.53923	10.18887	0.1402908	0.18518786	3.0483234	21	—	—
220703 2004 RJ_{325}	17.5	X	191.25627	19.74343	17.53372	20.45290	0.0970988	0.38459627	1.8726905	21	4 8.3	19.4
220704 2004 RK_{325}	14.9	X	36.68774	318.63541	30.05059	15.60223	0.2705015	0.17668927	3.1453038	21	12 15.9	19.3
220705 2004 RU_{325}	15.1	X	67.03297	318.35416	3.25792	13.68752	0.1788224	0.17834584	3.1257967	21	12 5.9	20.0
220706 2004 RM_{337}	15.5	X	20.38507	174.10917	196.87924	9.96892	0.0861721	0.17840324	3.1251261	21	11 28.4	19.7
220707 2004 RC_{345}	16.3	X	205.32189	94.33589	199.04845	1.56096	0.0362158	0.20088383	2.8873941	21	1 3.1	20.5
220708 2004 RL_{345}	15.3	X	265.56680	195.08851	338.50690	8.12166	0.0195032	0.18782179	3.0197575	21	—	—
220709 2004 SB_{3}	16.1	X	114.94765	92.65500	278.72603	0.96048	0.0946057	0.19869677	2.9085431	21	—	—
220710 2004 SK_{8}	15.8	X	66.90257	263.04104	137.91732	3.91581	0.1101409	0.19254954	2.9701227	21	—	—
220711 2004 SJ_{12}	15.7	X	278.35724	301.00487	78.12758	14.29086	0.2083847	0.22384102	2.6864345	21	6 22.0	19.5
220712 2004 SL_{14}	15.2	X	78.72254	253.34300	138.75108	11.17930	0.1289126	0.19216252	2.9741093	21	—	—
220713 2004 SS_{17}	15.7	X	74.38755	262.05156	85.18609	10.36477	0.1565439	0.18615283	3.0377797	21	—	—
220714 2004 SR_{19}	15.8	X	67.97059	76.00893	319.10866	5.46721	0.1000317	0.19059459	2.9903981	21	—	—
220715 2004 ST_{19}	14.6	X	155.18895	220.72516	4.60756	26.80393	0.0460551	0.17664366	3.1458452	21	10 25.4	19.6
220716 2004 SX_{25}	15.4	X	31.60202	241.29023	204.14034	11.63567	0.1062932	0.18950297	3.0018710	21	—	—
220717 2004 SX_{26}	16.9	X	145.97428	254.07440	84.68840	22.42564	0.1621168	0.37037242	1.9203348	21	—	—
220718 2004 SX_{30}	15.4	X	74.12377	7.42960	8.72131	10.13265	0.1018867	0.18896521	3.0075636	21	—	—
220719 2004 SV_{38}	15.2	X	10.77738	351.91919	20.52310	5.04870	0.1211943	0.17756083	3.1350029	21	11 18.0	19.1
220720 2004 SA_{39}	15.4	X	71.53479	332.14085	22.17422	5.97138	0.1102351	0.18502820	3.0500768	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
220721 2004 SL_{39}	15.6	X	81.78519	221.80982	181.29356	11.39849	0.1287554	0.19266379	2.9689484	21	—	—
220722 2004 SZ_{39}	15.2	X	39.75064	181.27258	198.94083	13.54238	0.1977999	0.18181947	3.0858570	21	—	—
220723 2004 SP_{45}	15.2	X	135.07375	37.67989	334.16016	11.40995	0.0688181	0.19684536	2.9267521	21	1 24.7	19.5
220724 2004 SL_{47}	15.3	X	126.37038	340.06470	333.65359	9.64879	0.1012338	0.18788335	3.0190979	21	—	—
220725 2004 SQ_{49}	15.2	X	16.42147	71.35465	318.50707	10.36283	0.0903812	0.17907285	3.1173308	21	12 15.7	19.4
220726 2004 SV_{50}	16.1	X	113.49103	126.10024	191.46787	10.12660	0.1583652	0.18724675	3.0259369	21	—	—
220727 2004 SN_{51}	15.4	X	47.47270	346.09883	1.83672	9.77517	0.1085349	0.18101627	3.0949785	21	12 6.7	19.8
220728 2004 SA_{52}	15.1	X	345.30673	257.49610	195.18181	10.45180	0.2053877	0.18096923	3.0955148	21	—	—
220729 2004 SM_{54}	15.0	X	62.13200	277.60538	48.42304	16.14679	0.2576636	0.18002825	3.1062920	21	12 16.3	19.8
220730 2004 SO_{58}	15.2	X	38.58920	10.75115	6.77194	9.73192	0.1793926	0.18171531	3.0870360	21	—	—
220731 2004 SM_{59}	14.9	X	15.03802	78.19323	322.54811	8.57068	0.0702413	0.18082883	3.0971169	21	12 25.8	19.1
220732 2004 TV	14.9	X	43.53791	278.99396	14.97785	7.33156	0.1473676	0.17269768	3.1935843	21	10 2.4	19.1
220733 2004 TS_{11}	15.9	X	30.74054	61.01982	12.36956	2.03000	0.0779283	0.18992191	2.9974550	21	—	—
220734 2004 TM_{15}	15.2	X	4.79026	327.74223	42.20972	15.88054	0.2773855	0.17450913	3.1714457	21	11 21.1	18.5
220735 2004 TO_{15}	15.6	X	334.17825	66.28771	16.16992	6.48630	0.0906908	0.17864034	3.1223603	21	12 19.1	19.6
220736 Niihama	15.0	X	47.32126	236.38072	84.56893	25.28673	0.2412480	0.17537690	3.1609754	21	11 27.7	19.5
220737 2004 TJ_{17}	15.9	X	293.74731	116.44138	38.11610	2.61339	0.0348000	0.18927915	3.0042371	21	—	—
220738 2004 TH_{19}	15.1	X	326.50795	259.61590	151.00141	26.63289	0.1917548	0.17204264	3.2016853	21	10 29.7	19.1
220739 2004 TU_{19}	15.8	X	4.96412	281.52551	121.76414	4.66297	0.2111386	0.17952894	3.1120489	21	12 30.0	19.4
220740 2004 TJ_{21}	15.9	X	168.32581	280.56470	50.56252	8.53040	0.2178698	0.19982714	2.8975642	21	1 23.1	20.8
220741 2004 TD_{24}	15.9	X	243.36467	12.10962	253.12388	1.83974	0.1064890	0.20080701	2.8881304	21	1 8.0	20.3
220742 2004 TO_{28}	16.0	X	204.68365	134.22980	171.23344	2.69934	0.1172243	0.20081172	2.8880852	21	1 18.0	20.5
220743 2004 TO_{33}	16.0	X	297.98660	196.13772	281.70710	1.88342	0.0407026	0.18152742	3.0891658	21	12 14.8	20.1
220744 2004 TW_{41}	15.4	X	305.50849	91.32165	17.05418	10.92688	0.0256796	0.18009630	3.1055095	21	12 12.5	19.8
220745 2004 TO_{60}	15.2	X	117.06559	317.86543	10.29397	11.61608	0.0425575	0.18930741	3.0039381	21	—	—
220746 2004 TY_{60}	16.2	X	60.64235	275.39615	118.79820	2.46198	0.1349751	0.18875313	3.0098159	21	—	—
220747 2004 TL_{65}	15.4	X	352.62899	331.76070	71.47038	11.79880	0.2212206	0.17715881	3.1397438	21	12 6.9	18.6
220748 2004 TG_{68}	14.9	X	73.24189	270.69511	52.50586	16.47607	0.2045590	0.18182023	3.0858483	21	12 18.4	19.8
220749 2004 TO_{69}	15.5	X	14.31622	244.41646	168.79980	10.61875	0.1057797	0.18432522	3.0578268	21	—	—
220750 2004 TT_{69}	15.3	X	335.45901	178.44993	186.78796	11.72359	0.0663001	0.17079558	3.2172511	21	9 12.6	19.6
220751 2004 TH_{72}	16.6	X	66.88607	172.28348	184.90370	2.29758	0.1918296	0.18490029	3.0514832	21	—	—
220752 2004 TG_{76}	16.4	X	354.38020	238.03978	259.72459	1.41076	0.1117004	0.19290561	2.9664667	21	—	—
220753 2004 TQ_{79}	15.0	X	2.20396	132.74441	299.83457	7.93157	0.1436039	0.18226188	3.0808614	21	—	—
220754 2004 TV_{85}	16.0	X	107.63069	130.94687	191.51766	6.76621	0.1066178	0.18720069	3.0264331	21	—	—
220755 2004 TZ_{88}	15.5	X	201.77310	46.62621	179.27029	6.93473	0.0173087	0.18551453	3.0447438	21	12 30.6	20.0
220756 2004 TQ_{94}	15.9	X	350.33887	207.75924	216.33273	1.27031	0.1235899	0.18046849	3.1012382	21	12 23.2	19.5
220757 2004 TH_{101}	16.3	X	143.98836	192.51061	77.46880	2.20882	0.0635247	0.18273027	3.0755943	21	12 16.8	20.9
220758 2004 TV_{101}	16.1	X	69.47352	303.66803	78.73366	1.01266	0.0814126	0.18681460	3.0306016	21	—	—
220759 2004 TG_{105}	15.8	X	21.89388	83.45806	9.10573	11.14408	0.0765471	0.19140847	2.9819152	21	—	—
220760 2004 TO_{105}	16.1	X	34.84708	261.41390	207.03366	1.43398	0.0469266	0.19666403	2.9285508	21	1 8.6	19.8
220761 2004 TR_{109}	15.7	X	77.53451	262.12058	93.93487	3.86269	0.1785866	0.18562095	3.0435800	21	—	—
220762 2004 TN_{116}	15.1	X	73.94326	359.51168	337.48582	9.14893	0.0848163	0.18209012	3.0827984	21	12 23.6	19.7
220763 2004 TQ_{117}	15.8	X	177.98804	358.70570	74.36339	2.95692	0.0499881	0.21439459	2.7647774	21	5 24.6	19.8
220764 2004 TK_{118}	15.1	X	269.16315	193.26709	280.27383	9.18451	0.0686516	0.17866412	3.1220833	21	10 26.0	19.5
220765 2004 TA_{120}	15.6	X	48.56945	141.48616	333.78578	8.17595	0.1481674	0.19820198	2.9133817	21	2 12.0	18.9
220766 2004 TN_{121}	15.7	X	6.58228	154.44799	253.31838	2.79280	0.0079246	0.18262670	3.0767571	21	12 17.1	20.0
220767 2004 TW_{122}	15.9	X	61.05892	262.14140	123.94167	3.35354	0.1003927	0.18799799	3.0178703	21	—	—
220768 2004 TK_{126}	15.5	X	60.02909	184.56519	163.36763	9.90912	0.0965458	0.18289567	3.0737398	21	12 22.2	20.0
220769 2004 TP_{128}	15.7	X	186.68728	5.41230	53.88712	3.44336	0.0345246	0.21379918	2.7699081	21	5 16.6	19.4
220770 2004 TU_{129}	16.1	X	93.46778	134.51098	177.72919	12.02113	0.2100293	0.18546296	3.0453082	21	12 26.3	21.2
220771 2004 TK_{130}	15.7	X	92.80600	139.98280	180.78883	9.94251	0.0579570	0.18380553	3.0635878	21	12 22.1	20.3
220772 2004 TJ_{131}	15.3	X	359.68965	16.91531	82.34333	4.47490	0.1711473	0.18463722	3.0543810	21	—	—
220773 2004 TZ_{132}	17.1	X	136.11080	202.29759	218.44233	20.97938	0.0993647	0.37888893	1.8914496	21	2 20.4	19.6
220774 2004 TB_{135}	15.9	X	26.80277	280.81996	157.28300	3.79462	0.1482636	0.19011028	2.9954747	21	—	—
220775 2004 TA_{137}	15.3	X	51.59695	9.98820	354.33020	11.94936	0.0737507	0.18110283	3.0939922	21	12 29.2	19.9
220776 2004 TB_{137}	14.9	X	94.01351	64.68544	265.33903	9.95476	0.0767577	0.18301105	3.0724478	21	—	—
220777 2004 TU_{137}	14.7	X	318.81133	189.57186	235.04235	8.35282	0.0577447	0.17495467	3.1660591	21	11 4.5	18.8
220778 2004 TY_{138}	15.5	X	310.99329	167.05881	295.21114	8.88786	0.0283598	0.18350320	3.0669519	21	12 13.9	19.7
220779 2004 TL_{139}	15.1	X	266.24920	195.38247	270.85427	6.02028	0.1123163	0.17440474	3.1727110	21	10 7.0	19.6
220780 2004 TR_{139}	17.2	X	42.11270	240.86306	225.37323	20.26023	0.0723166	0.37015522	1.9210860	21	—	—
220781 2004 TD_{144}	15.9	X	54.28273	139.73566	202.41761	18.71885	0.2693018	0.18084940	3.0968821	21	12 28.6	20.9
220782 2004 TB_{149}	15.7	X	137.65568	27.49105	252.12640	2.33672	0.0236975	0.18320465	3.0702828	21	12 20.7	20.2
220783 2004 TT_{167}	16.2	X	235.48100	327.05898	242.34899	1.04670	0.0147155	0.18925652	3.0044765	21	—	—
220784 2004 TC_{168}	15.6	X	62.14007	237.26683	160.08474	7.24943	0.1228168	0.18918264	3.0052587	21	—	—
220785 2004 TV_{168}	15.8	X	115.44556	223.88933	137.80578	2.89289	0.1173325	0.19260328	2.9695702	21	—	—
220786 2004 TM_{172}	15.3	X	28.80552	69.03365	307.78182	9.24256	0.0892992	0.17908096	3.1172366	21	12 16.4	19.5
220787 2004 TU_{173}	14.6	X	23.36661	30.74791	28.62072	21.83131	0.1619732	0.18117990	3.0931148	21	—	—
220788 2004 TA_{174}	16.2	X	62.46658	122.06353	288.30143	1.20347	0.1356086	0.19276582	2.9679007	21	—	—
220789 2004 TD_{175}	15.6	X	94.04134	297.23923	2.98784	4.62238	0.1450561	0.18139513	3.0906676	21	12 6.7	20.4
220790 2004 TJ_{175}	15.5	X	59.56010	19.28578	36.45067	10.51676	0.0975693	0.19034625	2.9929985	21	—	—
220791 2004 TE_{179}	16.1	X	59.06521	171.67960	184.93274	10.37915	0.1127594	0.18454089	3.0554439	21	—	—
220792 2004 TY_{179}	16.0	X	86.56385	277.97587	167.27735	2.19414	0.0376016	0.20291347	2.8681077	21	2 15.8	19.7
220793 2004 TN_{196}	16.0	X	101.04401	114.01882	240.98067	1.79019	0.1993204	0.18939123	3.0030517	21	—	—
220794 2004 TE_{197}	15.9	X	20.76559	224.18142	207.68612	3.60766	0.0642683	0.18655930	3.0333658	21	—	—
220795 2004 TV_{198}	16.0	X	349.92326	347.73577	179.10833	1.97315	0.0541072	0.19701239	2.9250976	21	1 19.3	19.8
220796 2004 TC_{213}	15.3	X	46.71802	155.63023	214.35610	17.24219	0.1604236	0.18075977	3.0979057	21	—	—
220797 2004 TD_{216}	15.9	X	40.99950	276.22055	124.43838	5.42822	0.1836103	0.18533957	3.0466597	21	—	—
220798 2004 TF_{220}	15.1	X	171.97939	331.32554	98.19950	9.30720	0.2071311	0.21103356	2.7940556	21	5 20.4	19.9
220799 2004 TF_{222}	15.6	X	64.81821	252.31086	120.08367	12.01007	0.2225441	0.18525532	3.0475833	21	—	—
220800 2004 TU_{222}	15.6	X	275.97936	263.56925	193.91710	4.61143	0.0902919	0.17320768	3.1873123	21	10 14.9	19.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
220801 2004 TD_{223}	14.9	X	50.11727	251.35490	117.66697	14.27406	0.1361343	0.18056803	3.1000984	21	—	—
220802 2004 TL_{230}	16.1	X	97.88131	226.66528	172.14417	1.92794	0.0937400	0.19495022	2.9456890	21	1 13.1	20.0
220803 2004 TR_{231}	15.7	X	98.26637	49.14125	239.71052	4.54408	0.1256087	0.17841161	3.1250284	21	11 26.1	20.4
220804 2004 TO_{241}	15.1	X	346.14766	114.81396	313.32510	7.55269	0.0656748	0.18076167	3.0978840	21	12 18.9	19.2
220805 2004 TY_{241}	15.2	X	30.24346	146.89374	259.84590	8.90370	0.1036223	0.18370047	3.0647557	21	—	—
220806 2004 TA_{242}	15.6	X	97.28563	5.88266	346.70455	7.81827	0.2348240	0.18686936	3.0300094	21	—	—
220807 2004 TM_{243}	15.7	X	67.52220	18.61913	9.47765	1.91310	0.1673750	0.18711681	3.0273375	21	—	—
220808 2004 TC_{247}	15.3	X	35.86492	287.38940	96.93126	10.03225	0.1230588	0.18222535	3.0812730	21	—	—
220809 2004 TE_{247}	15.1	X	21.61152	255.30704	128.17541	10.54871	0.0936841	0.17960268	3.1111969	21	12 16.5	19.3
220810 2004 TU_{247}	15.0	X	47.03746	181.33183	178.93590	24.00106	0.1615197	0.17989841	3.1077865	21	12 28.9	19.9
220811 2004 TZ_{249}	14.8	X	138.46232	192.27059	28.36794	4.55930	0.0891750	0.17144968	3.2090632	21	10 13.9	19.6
220812 2004 TQ_{250}	15.7	X	56.67317	64.57286	343.06809	9.65101	0.2043526	0.18714132	3.0270732	21	—	—
220813 2004 TR_{251}	15.9	X	80.49353	69.13109	301.90542	1.89651	0.0933671	0.18894719	3.0077547	21	—	—
220814 2004 TL_{261}	16.0	X	168.53853	130.22133	168.98673	2.71535	0.0558401	0.19123803	2.9836866	21	—	—
220815 2004 TZ_{273}	15.1	X	317.42036	153.19358	331.02571	1.69314	0.1472271	0.18115931	3.0933491	21	—	—
220816 2004 TW_{280}	16.1	X	342.77057	277.82952	223.20965	1.48550	0.0358974	0.18927895	3.0042392	21	—	—
220817 2004 TX_{294}	15.8	X	128.91004	352.84460	352.86347	2.53042	0.2089256	0.19115382	2.9845628	21	1 3.2	20.3
220818 2004 TB_{302}	14.9	X	224.27309	6.48176	239.23052	13.54385	0.1697535	0.19549754	2.9401886	21	—	—
220819 2004 TD_{303}	15.0	X	15.45262	15.58835	24.45813	11.00660	0.0630658	0.18031884	3.1029538	21	12 23.7	19.3
220820 2004 TH_{303}	15.8	X	41.23793	282.38355	130.46773	1.55819	0.0549467	0.18531576	3.0469206	21	—	—
220821 2004 TE_{310}	15.2	X	115.77792	300.36279	345.11990	11.89165	0.0104060	0.17934333	3.1141957	21	11 28.3	19.9
220822 2004 TU_{310}	15.0	X	36.33819	321.05786	33.23549	29.15015	0.1935228	0.17560829	3.1581982	21	12 4.7	19.6
220823 2004 TY_{310}	15.3	X	86.86505	36.00079	327.71031	9.32807	0.1223625	0.18578015	3.0418410	21	—	—
220824 2004 TE_{311}	15.3	X	38.78171	49.27635	331.73509	9.20581	0.0735507	0.18217873	3.0817987	21	—	—
220825 2004 TX_{312}	15.8	X	189.04176	210.98750	35.54767	3.02899	0.1252828	0.18988979	2.9977930	21	—	—
220826 2004 TO_{325}	15.2	X	10.31048	261.24007	139.69152	18.10273	0.2496917	0.17896070	3.1186330	21	—	—
220827 2004 TS_{336}	15.6	X	109.30530	232.39058	91.44039	1.78246	0.2006819	0.18473154	3.0533413	21	—	—
220828 2004 TG_{339}	15.8	X	90.78095	329.59834	10.26594	3.14517	0.1206610	0.18516594	3.0485640	21	—	—
220829 2004 TS_{346}	15.4	X	139.03672	347.71883	5.81134	9.05273	0.0797185	0.19410651	2.9542188	21	1 8.4	19.8
220830 2004 TY_{347}	16.7	X	302.07936	49.35776	202.00339	0.55904	0.0237090	0.21104338	2.7939689	21	3 5.6	20.6
220831 2004 TE_{360}	15.1	X	274.39138	147.07854	336.24045	13.67774	0.0956859	0.17926447	3.1151089	21	11 8.0	19.6
220832 2004 TJ_{360}	15.1	X	57.26366	107.20501	241.73386	8.43172	0.0099675	0.18034065	3.1027037	21	12 7.7	19.4
220833 2004 TX_{361}	14.8	X	10.46237	281.83996	113.19158	16.99932	0.0821622	0.17803383	3.1294476	21	12 14.7	19.0
220834 2004 TQ_{366}	15.4	X	31.85387	184.82815	188.11093	10.97331	0.2083497	0.17658043	3.1465961	21	12 30.9	19.8
220835 2004 UP_{4}	15.2	X	312.49885	111.62566	1.98671	26.00525	0.2614817	0.17732322	3.1378028	21	12 6.6	19.0
220836 2004 UE_{7}	16.1	X	80.94931	40.43578	311.84365	3.44185	0.2761262	0.18626068	3.0366071	21	—	—
220837 2004 UA_{9}	15.2	X	356.41715	84.53707	312.70280	16.66109	0.1814179	0.17599959	3.1535154	21	11 30.8	19.1
220838 2004 UD_{9}	14.6	X	1.60427	161.87559	289.25147	16.09137	0.1642407	0.18407464	3.0606012	21	—	—
220839 2004 VA	17.3	X	89.97122	43.16156	109.63898	3.69833	0.5960702	0.37617216	1.9005455	21	7 27.4	20.5
220840 2004 VQ	15.4	X	5.15349	81.84437	326.91481	4.33801	0.1544091	0.18041920	3.1018030	21	12 30.9	19.2
220841 2004 VB_{2}	15.5	X	75.69789	43.84465	328.96901	5.80429	0.2117812	0.18633865	3.0357599	21	—	—
220842 2004 VD_{2}	15.1	X	8.72322	279.00850	130.67016	2.00002	0.1799756	0.17873809	3.1212219	21	—	—
220843 2004 VE_{3}	15.7	X	87.53437	107.64126	216.12677	9.39959	0.2825942	0.18307890	3.0716886	21	—	—
220844 2004 VY_{5}	15.3	X	14.14205	314.61670	144.95321	2.20122	0.1958974	0.18629519	3.0362320	21	—	—
220845 2004 VP_{6}	15.7	X	315.33049	322.16460	108.88984	2.56090	0.1436812	0.17303988	3.1893726	21	11 2.7	19.4
220846 2004 VD_{8}	15.7	X	297.74646	7.63340	94.97329	4.13623	0.1832661	0.17527176	3.1622394	21	11 10.2	19.5
220847 2004 VE_{14}	15.1	X	37.30983	148.62349	264.52820	3.75099	0.1449033	0.18354534	3.0664823	21	—	—
220848 2004 VK_{26}	15.1	X	14.31596	130.54423	251.74216	9.26058	0.0888840	0.17649864	3.1475681	21	12 2.7	19.0
220849 2004 VZ_{28}	15.9	X	126.29575	280.19698	74.71716	2.52980	0.1080186	0.19100847	2.9860767	21	—	—
220850 2004 VB_{47}	15.1	X	98.04348	141.64559	211.12227	8.42040	0.1377125	0.18506049	3.0497220	21	—	—
220851 2004 VC_{61}	15.7	X	32.47635	259.14196	173.08992	15.10290	0.2219837	0.18603795	3.0390303	21	—	—
220852 2004 VK_{61}	15.1	X	37.41229	293.65658	116.09753	11.98966	0.1055577	0.18487179	3.0517969	21	—	—
220853 2004 VN_{61}	15.3	X	42.00872	235.37806	121.00941	13.39235	0.1580681	0.17789299	3.1310992	21	12 19.1	19.7
220854 2004 VP_{61}	15.1	X	41.22399	196.66324	182.34792	16.52259	0.0765362	0.18011073	3.1053436	21	—	—
220855 2004 VS_{61}	15.1	X	74.68123	228.35077	149.71421	14.18692	0.1316133	0.18536812	3.0463468	21	—	—
220856 2004 VK_{62}	15.0	X	89.20657	256.41317	111.96401	13.93888	0.1847792	0.18706313	3.0279166	21	—	—
220857 2004 VY_{70}	16.3	X	26.98332	34.08474	0.08064	1.14597	0.2435479	0.17968061	3.1102973	21	—	—
220858 2004 VT_{72}	15.8	X	353.47406	341.39991	102.54493	0.38907	0.1379029	0.18055177	3.1002844	21	—	—
220859 2004 VQ_{76}	14.6	X	56.45151	256.66958	55.59832	26.74193	0.2399172	0.17581831	3.1556826	21	11 22.1	19.0
220860 2004 VP_{78}	16.9	X	250.10909	197.49721	106.49699	24.84010	0.0823605	0.37932894	1.8899866	21	2 5.9	19.3
220861 2004 VV_{86}	15.4	X	305.38281	94.53561	9.04667	7.12489	0.1354387	0.17632796	3.1495990	21	11 26.7	19.3
220862 2004 VQ_{90}	15.8	X	7.72804	300.46385	110.16591	3.24715	0.1570018	0.17810248	3.1286435	21	—	—
220863 2004 VX_{90}	15.1	X	94.09375	52.45038	218.13015	9.75033	0.0272325	0.17118015	3.2124308	21	10 18.4	19.7
220864 2004 VV_{95}	15.3	X	320.20171	58.57812	20.60172	9.37164	0.0892675	0.17552365	3.1592133	21	11 21.5	19.5
220865 2004 VR_{96}	16.3	X	63.09831	39.23964	330.71933	0.64319	0.0469075	0.18171470	3.0870429	21	—	—
220866 2004 WB_{6}	15.3	X	341.85050	15.76148	26.69343	9.39364	0.0739859	0.17355091	3.1831086	21	11 8.1	19.4
220867 2004 WF_{10}	15.8	X	293.58494	160.82543	303.18268	3.95182	0.1234010	0.17243391	3.1968402	21	11 10.1	20.0
220868 2004 WH_{11}	14.7	X	12.33439	260.66821	96.76536	17.21488	0.1625445	0.17182486	3.2043901	21	11 12.4	18.8
220869 2004 WR_{11}	15.7	X	132.64933	294.03894	16.00016	1.75086	0.0508266	0.18255420	3.0775716	21	—	—
220870 2004 XY_{5}	15.1	X	334.06787	294.71588	169.94801	12.59462	0.1673916	0.17932742	3.1143798	21	—	—
220871 2004 XX_{14}	15.6	X	42.74719	328.09908	49.35610	2.30837	0.1800465	0.17813391	3.1282755	21	—	—
220872 2004 XE_{15}	15.2	X	30.51333	287.06518	100.12234	4.36409	0.1262868	0.17700074	3.1416128	21	—	—
220873 2004 XK_{16}	17.1	X	105.87859	58.23661	31.03123	20.30064	0.0840646	0.37705976	1.8975618	21	3 8.8	19.2
220874 2004 XT_{21}	15.7	X	31.14616	284.96443	146.85374	1.85924	0.0989247	0.18323771	3.0699136	21	—	—
220875 2004 XZ_{22}	15.6	X	115.55246	11.19501	53.18507	2.72302	0.0697164	0.19527192	2.9424528	21	3 5.9	19.8
220876 2004 XE_{23}	15.0	X	346.88899	171.92288	274.22890	16.46279	0.1828177	0.17691045	3.1426816	21	—	—
220877 2004 XL_{28}	15.3	X	14.39721	302.78628	72.49627	14.96369	0.2917186	0.17325267	3.1867605	21	12 19.9	19.0
220878 2004 XJ_{40}	17.1	X	33.53055	206.66799	294.63744	17.50373	0.0734315	0.37269179	1.9123593	21	1 2.8	18.5
220879 2004 XJ_{64}	15.1	X	341.71496	28.81389	35.49250	17.75666	0.1996098	0.17611311	3.1521601	21	12 7.7	18.7
220880 2004 XQ_{64}	15.5	X	328.61816	145.50467	314.96288	3.94890	0.1166851	0.17616155	3.1515821	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
220881 2004 XZ_{64}	15.3	X	107.95761	346.31915	66.36282	5.28742	0.1190972	0.19329869	2.9624437	21	2 18.6	19.4
220882 2004 XW_{65}	15.3	X	260.87864	211.57441	271.40952	6.04050	0.0547061	0.17076153	3.2176788	21	10 29.5	19.9
220883 2004 XY_{71}	17.1	X	343.47092	167.58155	294.70035	17.53099	0.0792665	0.35444981	1.9774229	21	—	—
220884 2004 XM_{84}	15.6	X	310.81246	318.88570	128.48966	1.58112	0.1501064	0.17272680	3.1932253	21	11 14.9	19.3
220885 2004 XP_{89}	15.2	X	330.55046	11.58742	37.56255	11.70971	0.1225727	0.17087689	3.2162305	21	10 30.7	19.1
220886 2004 XE_{103}	14.5	X	76.40863	301.21394	72.94530	17.74611	0.2043811	0.18001438	3.1064515	21	—	—
220887 2004 XR_{107}	16.2	X	347.37318	101.07756	328.79489	6.21087	0.2716403	0.17621505	3.1509442	21	—	—
220888 2004 XD_{112}	15.8	X	14.62595	72.84946	284.40964	3.68688	0.1773583	0.17095302	3.2152755	21	11 9.9	19.7
220889 2004 XG_{124}	14.7	X	29.18536	25.80377	44.89945	24.57549	0.1652507	0.18122856	3.0925611	21	—	—
220890 2004 XL_{129}	15.4	X	319.13655	292.18724	144.31999	9.47474	0.1840472	0.17278289	3.1925342	21	11 15.4	19.1
220891 2004 XF_{134}	15.0	X	330.31767	98.21076	38.09155	6.56399	0.1007192	0.18311995	3.0712295	21	—	—
220892 2004 XR_{145}	15.1	X	351.51831	350.95189	96.02212	11.73331	0.1767409	0.17993332	3.1073845	21	—	—
220893 2004 XX_{165}	15.1	X	287.92787	54.73787	33.51805	11.16609	0.0522729	0.17056928	3.2200961	21	10 23.9	19.3
220894 2004 XM_{182}	14.7	X	6.91058	256.38408	112.72083	18.97185	0.2028110	0.17182707	3.2043626	21	11 22.7	18.7
220895 2004 YB_{1}	15.3	X	27.40379	51.53572	32.36089	22.50220	0.2749489	0.18107196	3.0943440	21	—	—
220896 2004 YS_{1}	17.1	X	201.03850	260.46544	101.69462	24.08163	0.1610005	0.37955989	1.8892199	21	3 14.7	20.2
220897 2004 YL_{3}	15.1	X	40.14548	124.18503	233.50269	25.64393	0.2366504	0.17637702	3.1490148	21	12 24.2	19.7
220898 2004 YT_{5}	14.9	X	332.91916	78.25694	8.26530	24.42720	0.3206678	0.17329858	3.1861977	21	12 23.6	18.1
220899 2004 YU_{9}	15.7	X	333.34830	350.63829	134.38826	2.02861	0.1337159	0.18211598	3.0825066	21	—	—
220900 2004 YN_{10}	15.8	X	127.66207	358.95373	71.39547	2.77921	0.0155437	0.20047234	2.8913438	21	3 20.1	19.7
220901 2004 YX_{12}	15.7	X	299.67843	2.58872	102.89805	4.91679	0.1373782	0.16958051	3.2326009	21	11 21.2	19.8
220902 2004 YH_{33}	15.8	X	41.54222	244.22684	154.66368	6.13788	0.2891956	0.18291594	3.0735127	21	—	—
220903 2005 AD_{2}	15.0	X	44.69587	47.12182	1.53291	9.04585	0.1849558	0.18056889	3.1000885	21	—	—
220904 2005 AJ_{22}	15.5	X	0.49958	84.17711	315.19855	8.83633	0.2556514	0.17355185	3.1830971	21	12 21.2	19.0
220905 2005 AZ_{30}	14.3	X	356.49679	313.39153	106.55635	26.55729	0.1374452	0.17402133	3.1773695	21	12 28.3	18.2
220906 2005 BC_{7}	17.8	X	241.54056	71.87098	130.86421	3.44156	0.1658930	0.34990801	1.9944973	21	—	—
220907 2005 CB_{59}	15.1	X	20.08285	196.04247	272.80312	6.83636	0.0337006	0.17790700	3.1309348	21	—	—
220908 2005 CL_{59}	14.3	X	259.50705	137.77661	301.23277	14.69850	0.1966588	0.15475934	3.4358284	21	8 13.4	19.6
220909 2005 EO_{1}	18.2	X	350.87376	40.91443	231.15755	13.87083	0.7050050	0.24406419	2.5359071	21	2 4.5	21.9
220910 2005 EK_{131}	14.3	X	334.64380	170.82611	42.42282	11.70167	0.1552250	0.12435416	3.9752322	21	3 4.8	19.5
220911 2005 EY_{139}	16.4	X	183.30832	197.00165	84.75323	8.93218	0.2946882	0.28397294	2.2923702	21	—	—
220912 2005 EN_{142}	17.7	X	21.61132	127.41521	114.09653	3.30162	0.1496410	0.31285319	2.1490292	21	6 12.6	19.1
220913 2005 EJ_{145}	17.6	X	268.41779	114.16211	165.52228	7.35071	0.2072716	0.29960848	2.2119059	21	1 26.6	21.0
220914 2005 ER_{263}	17.6	X	305.76213	57.84663	207.33653	3.69757	0.1593081	0.30823664	2.1704338	21	2 19.2	20.3
220915 2005 ER_{323}	17.7	X	256.00092	236.38185	332.62034	2.23353	0.1843092	0.28508325	2.2864142	21	—	—
220916 2005 EB_{327}	17.0	X	290.98883	300.34410	328.09041	4.87576	0.1576277	0.30088031	2.2056683	21	2 9.4	19.9
220917 2005 GQ_{4}	17.0	X	267.66613	124.49986	150.68419	5.20513	0.1718783	0.29676518	2.2260116	21	1 23.6	20.4
220918 2005 GX_{5}	17.2	X	229.08245	234.79880	71.31870	4.34734	0.1888466	0.29465943	2.2366043	21	1 28.9	20.7
220919 2005 GC_{7}	17.2	X	286.94739	161.56922	80.71269	3.70147	0.1093971	0.29627872	2.2284475	21	1 7.5	20.0
220920 2005 GS_{10}	17.2	X	347.07002	191.67508	43.08575	5.65044	0.0997039	0.24612940	2.5217018	21	4 2.6	20.0
220921 2005 GS_{21}	17.3	X	315.07965	113.50404	157.75226	5.15980	0.2384769	0.30474422	2.1869846	21	3 1.9	19.9
220922 2005 GH_{31}	16.8	X	184.89380	139.49407	161.81366	9.91218	0.2380823	0.28730519	2.2746106	21	—	—
220923 2005 GQ_{49}	17.2	X	217.05668	157.83750	184.92363	4.32637	0.1916576	0.30008648	2.2095564	21	3 2.6	20.7
220924 2005 GO_{50}	17.7	X	229.90552	66.57540	198.60111	6.88298	0.2461799	0.28717869	2.2752786	21	—	—
220925 2005 GL_{93}	17.9	X	238.87344	48.36866	244.97203	4.62776	0.2120603	0.29426330	2.2386111	21	1 19.1	21.6
220926 2005 GN_{94}	17.9	X	48.24401	121.36638	127.50287	1.84704	0.0538774	0.31833901	2.1242688	21	8 4.9	19.7
220927 2005 GL_{148}	17.7	X	303.43742	261.39666	5.02734	6.21561	0.1458954	0.30237495	2.1983939	21	2 24.4	20.5
220928 2005 GY_{163}	16.9	X	200.33855	281.22055	26.36247	9.82957	0.1241575	0.29069895	2.2568727	21	1 2.6	20.3
220929 2005 GE_{220}	17.6	X	226.32296	108.47566	152.10397	5.33921	0.2111098	0.28767699	2.2726504	21	—	—
220930 2005 GW_{223}	18.3	X	37.39169	79.96370	158.02291	3.23334	0.0650825	0.31621118	2.1337878	21	6 30.3	20.2
220931 2005 HM	17.5	X	216.95884	53.18381	226.52670	6.20401	0.1836718	0.28832514	2.2692432	21	—	—
220932 2005 HN_{4}	15.2	X	9.34703	27.07358	147.69656	5.54273	0.0826030	0.17858815	3.1229687	21	2 28.1	19.0
220933 2005 HJ_{6}	16.8	X	182.53423	213.71481	92.76060	8.34126	0.1279276	0.28442742	2.2899275	21	—	—
220934 2005 JO_{17}	17.4	X	122.47217	193.92532	124.78855	6.06127	0.2449892	0.27536329	2.3399075	21	—	—
220935 2005 JM_{68}	17.3	X	209.92724	120.36485	133.66613	6.37986	0.2379994	0.28207737	2.3026285	21	—	—
220936 2005 JQ_{69}	17.4	X	272.10629	234.11274	50.66282	6.28172	0.1996308	0.29890960	2.2153523	21	2 9.8	20.8
220937 2005 JA_{76}	17.4	X	111.22403	18.02360	275.12600	0.70328	0.1815735	0.27084847	2.3658387	21	12 30.5	21.2
220938 2005 JA_{88}	17.3	X	268.54259	302.71326	11.29979	4.88848	0.1722488	0.30509217	2.1853215	21	3 15.8	20.5
220939 2005 JO_{92}	16.7	X	271.57720	51.97108	287.11345	6.78494	0.1743041	0.30550059	2.1833734	21	4 17.5	19.7
220940 2005 JG_{99}	17.1	X	150.73290	200.69142	84.38659	1.79449	0.2099399	0.27668952	2.3324244	21	—	—
220941 2005 JZ_{105}	17.2	X	338.58719	30.16472	162.12729	2.36804	0.0403137	0.29570442	2.2313319	21	1 16.1	19.5
220942 2005 JB_{112}	17.8	X	270.23257	286.96425	320.25513	0.37837	0.0758630	0.29208643	2.2497200	21	—	—
220943 2005 JE_{135}	17.0	X	124.00225	188.24310	95.82769	3.08356	0.2289792	0.27044012	2.3682196	21	12 30.9	21.1
220944 2005 JG_{149}	16.9	X	110.86906	274.80580	58.24618	7.45526	0.1750788	0.27771244	2.3266934	21	—	—
220945 2005 JP_{151}	17.8	X	264.11747	117.94640	168.89462	2.79510	0.1319172	0.29981038	2.2109127	21	2 6.3	20.8
220946 2005 JY_{153}	17.2	X	242.23873	94.67663	173.01528	6.88410	0.0841126	0.29024831	2.2592082	21	—	—
220947 2005 JA_{161}	17.1	X	190.41673	239.70804	126.34304	5.46681	0.1777429	0.29649351	2.2273711	21	3 11.0	20.5
220948 2005 KU_{2}	17.2	X	208.78097	71.72131	204.44357	6.25389	0.1156118	0.28506400	2.2865172	21	—	—
220949 2005 KD_{10}	17.0	X	175.18514	157.07114	152.02346	7.25241	0.1570116	0.28264864	2.2995249	21	—	—
220950 2005 KU_{10}	17.0	X	327.68763	40.68777	196.59050	5.44849	0.1208736	0.30100877	2.2050407	21	2 17.1	19.4
220951 2005 LT_{17}	13.2	X	334.86512	319.47886	91.37705	2.40113	0.0518511	0.08567900	5.0958871	21	10 28.2	19.7
220952 2005 LJ_{19}	17.0	X	121.84492	243.16597	137.28807	6.48084	0.2118455	0.28355212	2.2946376	21	1 19.3	19.6
220953 2005 LH_{26}	17.5	X	302.70120	99.03424	163.74361	5.70392	0.1406393	0.29840631	2.2178426	21	2 17.3	20.2
220954 2005 LD_{30}	17.1	X	74.60964	55.03189	266.13915	1.55175	0.1928864	0.26289458	2.4133202	21	12 31.1	20.8
220955 2005 LO_{48}	17.0	X	148.82456	156.32884	129.59191	1.88267	0.1787356	0.27029983	2.3690389	21	—	—
220956 2005 LR_{48}	16.6	X	98.11775	35.97325	275.83857	4.30377	0.2289703	0.26463636	2.4027193	21	—	—
220957 2005 MD_{2}	16.7	X	154.27715	223.63713	94.36840	5.02086	0.2416488	0.28018380	2.3129915	21	—	—
220958 2005 MF_{8}	17.4	X	110.13473	107.46403	159.35419	1.56448	0.1639932	0.26129775	2.4231424	21	11 25.7	21.1
220959 2005 ME_{12}	17.1	X	30.16650	239.50225	117.93581	3.45759	0.2169167	0.25852683	2.4404259	21	12 30.5	20.2
220960 2005 MC_{15}	16.3	X	154.71610	354.57600	290.72241	11.26061	0.1129195	0.27030884	2.3689863	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
220961 2005 MN_{18}	16.9	X	79.11459	83.97507	246.70597	1.46421	0.2343833	0.26342982	2.4100502	21	—	—
220962 2005 ML_{25}	16.9	X	70.31568	7.17390	290.15921	1.49332	0.2131520	0.25895513	2.4377343	21	11 28.7	20.5
220963 2005 MR_{25}	17.1	X	12.48821	153.42719	208.57273	1.78589	0.2013943	0.25615788	2.4554489	21	12 7.8	19.6
220964 2005 MY_{27}	16.5	X	77.82247	143.29636	221.23163	5.73882	0.1612495	0.26804102	2.3823298	21	—	—
220965 2005 MX_{28}	17.2	X	354.48394	319.15132	201.29099	5.85723	0.0570381	0.28406520	2.2918737	21	—	—
220966 2005 MG_{32}	17.0	X	44.38614	203.91550	133.60549	5.07675	0.2288070	0.25810367	2.4430926	21	12 23.7	20.3
220967 2005 ME_{33}	16.9	X	34.13022	123.26623	217.24887	2.45371	0.1314115	0.25821807	2.4423710	21	11 30.4	19.9
220968 2005 MT_{39}	16.9	X	42.32669	201.10103	136.19059	5.50669	0.2028614	0.25761889	2.4461566	21	12 17.6	20.1
220969 2005 MG_{43}	16.4	X	88.16439	135.13893	209.78744	5.56468	0.2669577	0.26652300	2.3913671	21	—	—
220970 2005 MS_{45}	17.1	X	39.10112	240.35292	124.09294	5.58473	0.1520475	0.26164484	2.4209990	21	—	—
220971 2005 MX_{45}	16.9	X	98.21691	122.09422	173.41337	4.50751	0.1922921	0.26309027	2.4121234	21	12 21.4	20.9
220972 2005 MJ_{53}	16.7	X	6.96828	111.81867	333.04428	0.87643	0.0845988	0.26668415	2.3904036	21	—	—
220973 2005 MN_{53}	17.3	X	45.03035	189.25747	128.86596	3.86094	0.2046363	0.25540927	2.4602446	21	11 26.5	20.5
220974 2005 MR_{53}	17.2	X	24.99719	48.69686	299.05554	1.33928	0.2036581	0.25474278	2.4645339	21	12 7.5	20.0
220975 2005 NA_{2}	17.5	X	58.69577	80.83189	219.19493	1.12183	0.1670101	0.25659888	2.4526348	21	11 13.7	20.6
220976 2005 ND_{2}	17.2	X	112.17068	150.52075	136.12981	2.62813	0.1687069	0.26428425	2.4048530	21	12 22.0	20.9
220977 2005 NC_{6}	17.0	X	17.08155	218.23296	210.87893	5.69245	0.1930573	0.26801933	2.3824583	21	—	—
220978 2005 NL_{9}	17.2	X	107.01548	153.06778	213.16934	1.49877	0.1193651	0.27348011	2.3506369	21	—	—
220979 2005 NS_{9}	17.1	X	345.43902	193.64724	192.30886	2.01269	0.2213590	0.25374156	2.4710127	21	11 21.5	19.0
220980 2005 NY_{9}	16.8	X	107.41873	94.18303	202.84870	9.84154	0.2464133	0.26751739	2.3854375	21	—	—
220981 2005 NE_{11}	17.0	X	80.50575	152.34474	151.06736	1.76377	0.1859771	0.26167156	2.4208341	21	12 14.2	20.5
220982 2005 NR_{11}	16.9	X	90.29159	73.71461	252.80667	4.74366	0.2437768	0.26834335	2.3805400	21	—	—
220983 2005 NZ_{14}	17.3	X	90.51560	107.82603	137.86765	1.06894	0.1771767	0.25578777	2.4578169	21	10 11.7	21.0
220984 2005 NT_{15}	16.5	X	46.80028	245.54270	90.01698	2.32084	0.2005526	0.25926281	2.4358053	21	12 20.4	19.8
220985 2005 NU_{28}	17.2	X	176.34135	106.96256	171.27496	6.88358	0.1005030	0.27318806	2.3523119	21	—	—
220986 2005 ND_{29}	16.7	X	49.98808	167.55828	202.38970	2.60514	0.2393026	0.26231007	2.4169040	21	—	—
220987 2005 NZ_{29}	17.0	X	55.98321	199.63638	181.17756	0.89065	0.1910205	0.26682711	2.3895498	21	—	—
220988 2005 NE_{32}	16.8	X	24.63821	164.69090	178.36881	6.50325	0.2274301	0.25575357	2.4580360	21	12 5.7	19.7
220989 2005 NF_{34}	17.2	X	245.57613	276.91190	311.65020	5.02362	0.1398376	0.27862240	2.3216248	21	—	—
220990 2005 NQ_{34}	17.2	X	213.33930	284.01303	334.59043	1.96247	0.0775524	0.27673334	2.3321782	21	—	—
220991 2005 NL_{42}	17.3	X	350.99659	47.20315	145.83899	5.83294	0.0916536	0.29016593	2.2596357	21	1 28.9	19.6
220992 2005 NZ_{48}	16.4	X	51.52159	241.76856	76.57020	7.20749	0.1511082	0.25789352	2.4444196	21	11 27.1	19.5
220993 2005 ND_{49}	16.3	X	74.22980	322.12517	31.70487	6.36217	0.1537113	0.26540354	2.3980868	21	—	—
220994 2005 NK_{51}	17.0	X	94.71427	73.76168	204.92629	3.80532	0.1148893	0.26082345	2.4260791	21	11 21.7	20.6
220995 2005 NP_{53}	17.3	X	102.76638	73.31471	207.03071	1.73743	0.1696108	0.26224673	2.4172932	21	12 5.7	21.0
220996 2005 NN_{61}	17.5	X	18.42829	82.54010	291.09898	0.95421	0.1997525	0.25803631	2.4435178	21	—	—
220997 2005 NS_{65}	17.0	X	138.69855	331.90856	264.98752	1.29130	0.1695391	0.26146312	2.4221206	21	11 14.4	20.8
220998 2005 ND_{70}	17.1	X	121.96940	298.25263	333.97189	2.01201	0.1736416	0.26394385	2.4069202	21	12 13.1	20.8
220999 2005 NE_{73}	16.6	X	115.35047	328.83746	318.57788	8.20179	0.2397754	0.26290601	2.4132503	21	12 28.2	20.8
221000 2005 NH_{75}	17.3	X	342.77179	283.78526	125.05161	2.89840	0.2072598	0.25894549	2.4377948	21	12 21.0	19.3
221001 2005 NE_{83}	16.8	X	33.53209	153.46355	211.71868	5.09623	0.1556360	0.26075288	2.4265168	21	—	—
221002 2005 NV_{90}	16.8	X	95.05129	143.86877	191.58811	2.29286	0.2433129	0.26751349	2.3854607	21	—	—
221003 2005 NH_{93}	16.7	X	19.45845	108.19817	223.66884	5.21116	0.1380066	0.25331020	2.4738171	21	10 26.5	19.3
221004 2005 NP_{95}	17.2	X	136.07013	193.20124	113.22939	3.68178	0.1965856	0.27144757	2.3623564	21	—	—
221005 2005 NH_{122}	17.2	X	167.55579	98.28368	171.89110	1.28048	0.1631730	0.27122035	2.3636756	21	—	—
221006 2005 OH_{2}	16.2	X	9.52093	269.77739	95.50192	8.10901	0.2589085	0.25539290	2.4603497	21	12 17.0	18.6
221007 2005 OD_{4}	17.4	X	202.94110	74.29245	184.91195	3.18628	0.2252404	0.27686439	2.3314422	21	—	—
221008 2005 OX_{5}	17.0	X	42.24484	175.19016	137.91070	2.78620	0.1848362	0.25388305	2.4700945	21	11 13.1	20.0
221009 2005 OM_{9}	16.6	X	154.22749	291.84967	343.69425	4.15417	0.2111296	0.26937649	2.3744494	21	—	—
221010 2005 OW_{11}	17.0	X	54.74673	144.64672	213.98531	1.24983	0.1980707	0.26141800	2.4223993	21	—	—
221011 2005 OJ_{13}	16.2	X	1.28029	53.89493	355.71381	12.48036	0.2176011	0.25708197	2.4495612	21	—	—
221012 2005 OH_{18}	16.7	X	97.07907	4.53058	298.74306	5.68346	0.1151755	0.26083092	2.4260328	21	12 24.7	20.2
221013 2005 OA_{27}	17.2	X	320.61817	355.80746	24.48974	2.10031	0.1612309	0.24685652	2.5167475	21	9 13.1	19.3
221014 2005 OB_{29}	16.7	X	68.64899	186.92155	186.36388	3.11642	0.0946214	0.26608116	2.3940137	21	—	—
221015 2005 PJ_{1}	16.7	X	115.92243	325.52390	0.53517	4.23365	0.1629560	0.26840652	2.3801665	21	—	—
221016 2005 PW_{1}	16.0	X	41.57387	248.29559	125.51289	7.23622	0.1334135	0.26196710	2.4190131	21	—	—
221017 2005 PB_{14}	16.9	X	104.33787	280.27624	337.75503	10.58163	0.2253566	0.25804361	2.4434717	21	11 8.6	21.1
221018 2005 PV_{14}	16.8	X	80.46001	350.48470	17.41981	2.29921	0.2232673	0.26612446	2.3937540	21	—	—
221019 Raine	17.4	X	20.91212	212.37243	141.97115	1.94942	0.2061695	0.25571499	2.4582833	21	12 11.3	20.2
221020 2005 PS_{20}	16.5	X	64.99597	55.21546	326.03969	3.35992	0.1760316	0.26634238	2.3924481	21	—	—
221021 2005 QY_{3}	16.6	X	160.02529	132.87678	136.59451	1.90385	0.1542001	0.26653554	2.3912921	21	—	—
221022 2005 QE_{5}	17.1	X	349.27112	62.24256	331.73403	3.81822	0.1955016	0.25531709	2.4608367	21	12 8.9	19.3
221023 2005 QK_{19}	16.5	X	293.17043	139.74351	328.98835	5.86888	0.0930621	0.25843916	2.4409778	21	12 8.9	19.3
221024 2005 QP_{19}	16.6	X	166.21263	105.21458	159.64654	6.53190	0.1512025	0.26768764	2.3844259	21	—	—
221025 2005 QA_{21}	16.3	X	92.92043	12.02691	357.31299	7.11164	0.1409033	0.26850001	2.3796140	21	—	—
221026 Jeancoester	16.5	X	305.34464	106.24378	342.73503	4.99646	0.1308877	0.25653060	2.4530700	21	11 27.9	19.0
221027 2005 QU_{31}	16.6	X	45.41802	149.98925	184.13680	6.27932	0.1557621	0.25713121	2.4492485	21	12 10.7	19.9
221028 2005 QS_{32}	16.9	X	30.27994	15.55134	353.98223	1.68786	0.1853720	0.25961265	2.4336165	21	—	—
221029 2005 QM_{33}	17.2	X	118.71685	141.40604	162.84114	5.30331	0.1206824	0.26495185	2.4008116	21	—	—
221030 2005 QO_{42}	16.9	X	83.93978	168.24993	160.38767	7.25791	0.1404021	0.26154006	2.4216455	21	—	—
221031 2005 QV_{42}	17.0	X	26.22178	227.04607	129.63871	3.36828	0.1847817	0.25475059	2.4644835	21	12 18.5	19.9
221032 2005 QT_{43}	16.9	X	293.17796	196.46175	122.79572	1.24172	0.1114301	0.23452204	2.6042356	21	5 6.7	20.1
221033 2005 QU_{52}	16.8	X	37.29710	283.19861	56.53553	2.36959	0.1930949	0.25689085	2.4507760	21	12 12.5	19.7
221034 2005 QX_{65}	16.5	X	122.62070	104.40531	216.34486	5.13542	0.1753244	0.26839922	2.3802097	21	—	—
221035 2005 QZ_{65}	16.3	X	105.97617	154.37719	175.09766	7.49770	0.1224198	0.26665947	2.3905512	21	—	—
221036 2005 QK_{66}	17.0	X	122.17072	92.52949	181.39305	8.92597	0.1991724	0.26174050	2.4204090	21	12 16.1	21.1
221037 2005 QL_{66}	16.5	X	52.72239	201.83054	169.84061	11.77132	0.2602144	0.26132364	2.4229823	21	—	—
221038 2005 QZ_{67}	16.6	X	36.45501	278.62181	85.99494	7.16622	0.1544093	0.25950497	2.4342897	21	—	—
221039 2005 QP_{68}	16.5	X	27.79726	353.06277	38.23092	6.98020	0.1334188	0.26166726	2.4208607	21	—	—
221040 2005 QE_{71}	16.1	X	299.98310	329.88498	5.61914	16.31476	0.2639682	0.23627389	2.5913469	21	5 7.0	19.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
221041 2005 QF_{74}	16.3	X	105.23398	166.54709	201.81895	3.95828	0.1573667	0.26872381	2.3782926	21	—	—
221042 2005 QF_{77}	16.1	X	97.88690	113.20832	237.86145	5.44634	0.1349307	0.26879683	2.3778619	21	—	—
221043 2005 QC_{82}	16.7	X	1.44657	298.01956	115.45198	3.20474	0.1623974	0.25921958	2.4360761	21	—	—
221044 2005 QT_{88}	16.8	X	146.53268	235.23095	40.85524	1.85279	0.1599294	0.26647052	2.3916811	21	—	—
221045 2005 QT_{94}	16.9	X	82.99427	149.19482	142.26217	1.87584	0.1547040	0.25776734	2.4452173	21	11 28.6	20.5
221046 2005 QV_{94}	16.1	X	317.07958	106.30559	342.14629	6.70956	0.0641544	0.26003446	2.4309841	21	12 21.9	19.0
221047 2005 QZ_{97}	16.9	X	4.69613	206.62350	142.85388	7.12650	0.1224791	0.25113137	2.4881052	21	10 27.5	19.6
221048 2005 QL_{100}	17.1	X	191.98240	8.85852	222.92375	4.51172	0.0585944	0.26383410	2.4075876	21	—	—
221049 2005 QA_{110}	17.2	X	23.78106	210.69873	170.72286	1.40572	0.1919480	0.25703393	2.4498665	21	—	—
221050 2005 QT_{111}	16.5	X	357.06320	92.19777	168.66661	6.14560	0.0454858	0.23397803	2.6082707	21	5 31.1	19.7
221051 2005 QK_{113}	17.0	X	265.50134	203.23425	154.94472	3.99317	0.1906834	0.23310198	2.6148016	21	5 14.2	21.0
221052 2005 QK_{115}	15.6	X	151.62248	118.14515	356.72109	22.11112	0.0261606	0.23224509	2.6212294	21	6 11.8	19.8
221053 2005 QJ_{118}	16.9	X	12.91713	16.70688	34.39448	1.30332	0.1169135	0.26124041	2.4234969	21	—	—
221054 2005 QC_{127}	16.8	X	312.66706	92.42714	351.22577	2.08916	0.1793220	0.25458411	2.4655578	21	12 2.5	18.7
221055 2005 QM_{130}	16.6	X	354.27029	246.68029	48.59771	4.45081	0.1637884	0.24111653	2.5565330	21	7 12.8	18.9
221056 2005 QG_{133}	15.9	X	77.43554	6.22997	1.15940	8.58960	0.1974189	0.26486775	2.4013197	21	—	—
221057 2005 QV_{135}	17.1	X	214.04634	310.14560	158.44910	6.80969	0.1622351	0.23980849	2.5658210	21	8 13.2	21.2
221058 2005 QU_{142}	16.4	X	69.24516	318.65256	33.38580	7.62912	0.2139800	0.26369601	2.4084281	21	—	—
221059 2005 QD_{143}	16.0	X	321.14636	355.62131	317.26929	14.02202	0.0719059	0.23609323	2.5926687	21	6 14.5	19.5
221060 2005 QJ_{152}	16.8	X	260.36875	260.07655	212.70361	2.75850	0.0302087	0.25347729	2.4727299	21	11 3.2	19.7
221061 2005 QW_{154}	16.8	X	3.86558	95.11812	343.60748	9.64363	0.1070209	0.26609204	2.3939484	21	—	—
221062 2005 QX_{160}	16.2	X	189.98943	274.75614	162.24356	14.26709	0.1156433	0.23126340	2.6286420	21	6 13.2	20.6
221063 2005 QY_{161}	16.3	X	21.18181	34.07266	15.18602	7.62092	0.1132340	0.26279966	2.4139013	21	—	—
221064 2005 QL_{179}	16.3	X	317.18487	268.03723	82.66195	14.77892	0.1769394	0.24077645	2.5589397	21	7 19.6	19.1
221065 2005 QP_{187}	16.9	X	302.50855	238.70425	96.67170	5.61139	0.1716357	0.23587173	2.5942916	21	6 1.9	20.1
221066 2005 RK_{17}	17.2	X	178.16566	130.50022	113.35318	3.42330	0.1551914	0.26489247	2.4011704	21	12 29.9	20.9
221067 2005 RJ_{20}	15.9	X	293.41667	90.04721	250.55938	13.03215	0.1310421	0.23538416	2.5978729	21	6 1.9	19.2
221068 2005 RK_{24}	15.8	X	306.87314	343.41498	354.79133	14.11570	0.1856883	0.23522221	2.5990651	21	6 7.4	19.2
221069 2005 RF_{30}	16.1	X	212.37717	319.38706	207.34091	5.47965	0.0984445	0.25403824	2.4690885	21	11 3.3	19.3
221070 2005 RE_{32}	16.0	X	268.47579	226.09738	127.87586	14.42549	0.2850370	0.23083513	2.6318923	21	5 6.1	20.5
221071 2005 RR_{33}	16.9	X	0.96488	59.29468	348.44495	2.30010	0.0848740	0.25832827	2.4416763	21	—	—
221072 2005 SN	16.0	X	55.96931	271.29852	309.00624	5.02316	0.1165863	0.23563445	2.5960329	21	7 13.1	19.1
221073 Ovruch	16.4	X	73.01336	153.40080	226.44991	5.74074	0.1615187	0.26569436	2.3963366	21	—	—
221074 2005 SQ_{6}	15.9	X	204.45450	119.58623	221.38787	5.26039	0.0380367	0.21625801	2.7488724	21	2 24.4	20.0
221075 2005 SA_{13}	15.7	X	11.97111	94.90498	195.40273	10.33477	0.2568345	0.18091970	3.0960798	21	8 13.6	18.9
221076 2005 SM_{14}	16.4	X	25.93559	353.32365	30.07806	7.41052	0.1461284	0.25848726	2.4406750	21	—	—
221077 2005 SP_{20}	16.6	X	271.21300	179.17769	172.90905	4.26848	0.2730573	0.23185580	2.6241626	21	5 2.9	20.7
221078 2005 SS_{24}	16.2	X	70.81658	335.81763	46.35119	8.24642	0.2055923	0.26418699	2.4054432	21	—	—
221079 2005 SX_{32}	16.8	X	308.30319	139.74404	163.38297	5.99876	0.2506104	0.23247718	2.6194845	21	4 15.1	20.2
221080 2005 SR_{39}	16.8	X	108.41980	0.78745	159.38783	0.76393	0.0954218	0.23085646	2.6317302	21	6 29.0	20.4
221081 2005 SU_{45}	16.4	X	342.92565	315.01513	303.97099	1.34882	0.0504191	0.22737701	2.6585103	21	5 5.1	19.8
221082 2005 SC_{49}	16.2	X	125.87806	248.03038	195.21885	4.74431	0.0357248	0.21945723	2.7220920	21	4 2.2	19.9
221083 2005 SH_{49}	16.1	X	209.18267	219.99460	198.63831	12.86286	0.1535660	0.22881372	2.6473702	21	6 6.9	20.5
221084 2005 SX_{49}	16.8	X	302.17697	91.14618	200.42763	12.41491	0.1138901	0.22681731	2.6628820	21	4 11.6	20.3
221085 2005 SK_{50}	16.2	X	168.48043	262.62249	198.43368	12.40254	0.2284805	0.22654515	2.6650143	21	6 22.8	21.0
221086 2005 SG_{54}	16.7	X	6.47024	293.87072	20.37103	2.60694	0.0995392	0.24163282	2.5528900	21	9 3.2	19.3
221087 2005 SU_{60}	16.1	X	284.14358	117.04738	194.25765	12.47084	0.0946130	0.22725921	2.6594289	21	4 17.9	19.6
221088 2005 SW_{65}	15.5	X	260.75611	281.72246	31.70200	12.98037	0.1273921	0.22213427	2.7001776	21	3 24.4	19.6
221089 2005 SE_{68}	16.5	X	256.03282	51.43138	2.02045	13.37334	0.1587311	0.23720042	2.5845945	21	7 22.8	20.4
221090 2005 SZ_{79}	16.7	X	205.90724	348.75074	125.24097	1.17957	0.0083609	0.24146855	2.5540477	21	8 25.1	19.8
221091 2005 SF_{85}	17.0	X	28.18717	254.49482	13.08049	3.22425	0.1096471	0.23868958	2.5738333	21	8 4.6	19.8
221092 2005 SO_{90}	17.1	X	259.89809	156.46135	193.28365	1.60653	0.2242716	0.22956747	2.6415722	21	4 23.4	21.3
221093 2005 SM_{91}	16.6	X	111.28965	265.62890	221.78057	1.12742	0.0252609	0.22517546	2.6758104	21	5 9.6	20.1
221094 2005 SN_{94}	16.1	X	4.13193	145.94188	239.97534	13.38701	0.1841261	0.25473568	2.4645797	21	12 22.9	18.7
221095 2005 SK_{96}	17.1	X	311.45348	185.90571	152.58154	5.39104	0.2161640	0.23828974	2.5767116	21	6 13.1	20.1
221096 2005 SD_{97}	17.1	X	264.70885	223.29857	166.73723	5.11974	0.1896106	0.23596619	2.5935992	21	6 23.1	20.9
221097 2005 SL_{101}	16.4	X	351.85587	340.98005	345.30580	6.11378	0.1186527	0.24116759	2.5561721	21	8 25.7	18.8
221098 2005 SN_{103}	16.6	X	338.07111	316.75165	18.30268	10.11694	0.2321495	0.24109959	2.5566527	21	8 8.8	18.7
221099 2005 SP_{104}	16.8	X	284.26214	263.65865	82.78798	2.96734	0.1498438	0.23225354	2.6211657	21	5 25.7	20.4
221100 2005 SK_{105}	16.6	X	227.69913	185.88770	184.52252	13.10354	0.1941722	0.22532530	2.6746241	21	4 24.2	21.1
221101 2005 SX_{107}	16.8	X	188.53581	48.37643	3.81547	4.30338	0.1041447	0.22576103	2.6711815	21	5 8.2	20.8
221102 2005 SE_{109}	17.2	X	149.25803	277.96636	226.19782	1.45995	0.0549978	0.23441795	2.6050065	21	7 22.9	20.9
221103 2005 SN_{111}	15.9	X	211.81534	50.64939	4.22754	13.91430	0.1514351	0.22902519	2.6457403	21	5 31.9	20.4
221104 2005 SC_{125}	17.1	X	105.13334	264.44133	84.00433	2.41051	0.1963983	0.26576876	2.3958894	21	—	—
221105 2005 SK_{143}	15.9	X	48.70783	165.68835	21.46117	16.07409	0.1477783	0.22651241	2.6652711	21	5 13.0	19.1
221106 2005 SE_{145}	17.5	X	225.67442	22.19961	80.99546	2.91649	0.0929341	0.24073745	2.5592160	21	8 27.7	21.0
221107 2005 SB_{151}	16.8	X	223.00996	204.51177	168.69178	2.82433	0.1048634	0.22566984	2.6719010	21	4 26.6	20.7
221108 2005 SO_{152}	15.6	X	221.16831	174.08038	213.63614	14.58498	0.1216953	0.22466507	2.6798615	21	5 12.3	19.7
221109 2005 SN_{161}	17.6	X	29.75428	114.77070	313.86852	0.94578	0.1878879	0.26279292	2.4139426	21	—	—
221110 2005 SV_{161}	16.4	X	358.88740	334.16036	43.43285	7.38003	0.1493907	0.25320953	2.4744728	21	11 26.3	18.9
221111 2005 SA_{165}	16.4	X	7.33120	224.82465	188.21684	7.30054	0.1063474	0.25963310	2.4334888	21	—	—
221112 2005 SQ_{169}	16.2	X	192.39673	143.23990	358.97642	13.21958	0.0973524	0.24197266	2.5504992	21	9 10.5	20.0
221113 2005 SW_{172}	16.2	X	95.25595	248.14754	326.10752	4.72312	0.1552856	0.24119069	2.5560089	21	9 1.2	19.9
221114 2005 SQ_{189}	16.9	X	328.46238	256.06782	37.87081	2.15396	0.0218086	0.23002037	2.6381037	21	6 4.3	20.4
221115 2005 SF_{194}	15.9	X	185.27329	212.58921	209.87637	11.61320	0.1923402	0.22456314	2.6806724	21	5 20.9	20.4
221116 2005 SW_{196}	16.7	X	94.91040	97.14348	166.06057	7.03909	0.1881625	0.25633778	2.4542999	21	11 9.7	20.6
221117 2005 SE_{217}	16.8	X	259.22146	73.99189	25.77888	11.90048	0.2387024	0.24048983	2.5609724	21	9 16.0	20.4
221118 2005 SL_{218}	15.8	X	250.24577	255.46644	64.07548	6.39613	0.1314969	0.22131904	2.7068043	21	3 19.6	20.0
221119 2005 SY_{218}	16.0	X	99.99629	283.82414	28.89381	13.16001	0.2207221	0.26404165	2.4063258	21	—	—
221120 2005 SD_{219}	16.2	X	257.25463	348.10481	49.31980	4.66251	0.2244628	0.23108708	2.6299789	21	6 20.2	20.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
221121 2005 SV_{221}	15.7	X	289.81507	226.18217	159.81070	26.20154	0.0616576	0.24118428	2.5560542	21	8 9.7	19.2
221122 2005 SA_{222}	16.3	X	294.99421	235.79505	138.67188	14.13103	0.1936338	0.23976191	2.5661533	21	7 11.5	19.5
221123 2005 SM_{222}	16.0	X	248.68367	307.89711	113.09301	15.33344	0.0905892	0.23719917	2.5846036	21	7 29.4	19.5
221124 2005 SZ_{224}	16.4	X	160.29010	236.11563	192.25557	6.96656	0.1348775	0.22244367	2.6976733	21	5 3.7	20.6
221125 2005 SM_{231}	16.7	X	267.34265	154.53789	209.98241	2.03557	0.0900137	0.23073789	2.6326317	21	6 6.2	20.1
221126 2005 SW_{233}	17.0	X	145.78673	244.92114	202.60805	3.00759	0.0634008	0.22155200	2.7049065	21	5 6.0	20.7
221127 2005 SB_{236}	16.4	X	310.28107	42.78634	221.58900	11.01825	0.1532172	0.22298574	2.6932995	21	3 8.1	20.1
221128 2005 SK_{253}	16.7	X	61.98495	125.34801	188.56650	12.01680	0.2280982	0.25764537	2.4459890	21	12 13.1	20.5
221129 2005 SQ_{259}	16.1	X	203.08851	261.39142	149.97528	14.96978	0.1899938	0.22935611	2.6431948	21	5 25.1	20.8
221130 2005 SX_{263}	16.7	X	321.99795	186.72711	114.15940	3.51831	0.0223732	0.22954897	2.6417141	21	6 5.3	20.0
221131 2005 SA_{270}	15.7	X	302.73440	229.35711	25.63069	9.57285	0.1881482	0.21988116	2.7185920	21	2 18.6	19.6
221132 2005 SG_{275}	15.4	X	299.05325	237.65023	124.24408	18.21823	0.2540419	0.23478180	2.6023144	21	6 21.6	18.8
221133 2005 SU_{278}	16.7	X	261.20513	87.73540	218.64758	4.53831	0.1637778	0.21964619	2.7205305	21	3 6.9	21.1
221134 2005 SB_{280}	16.4	X	51.43975	35.61956	184.92335	3.77939	0.2175962	0.23518570	2.5993341	21	7 21.6	19.3
221135 2005 SX_{280}	16.4	X	200.84483	29.23234	332.85943	9.03791	0.2000022	0.21910298	2.7250252	21	3 18.7	21.0
221136 2005 SU_{281}	16.8	X	201.71651	263.14077	179.36198	7.87447	0.0930871	0.23107326	2.6300838	21	7 1.4	20.9
221137 2005 SP_{283}	16.5	X	315.13373	125.65943	154.33667	13.22590	0.1583089	0.22653479	2.6650955	21	4 11.3	20.0
221138 2005 TX_{1}	15.7	X	36.33290	215.51769	359.24224	12.48295	0.1350473	0.23137803	2.6277737	21	5 30.7	18.8
221139 2005 TH_{3}	16.1	X	261.52538	299.23185	43.85024	13.69561	0.2942341	0.22880623	2.6474279	21	4 13.6	20.6
221140 2005 TU_{5}	16.1	X	93.20474	119.87405	322.72154	7.86483	0.1369005	0.21315153	2.7755160	21	3 4.1	19.7
221141 2005 TO_{11}	16.3	X	85.28116	302.77626	197.71918	8.33874	0.2236784	0.21817910	2.7327125	21	5 24.6	20.0
221142 2005 TP_{12}	17.0	X	232.73924	238.02429	167.26390	2.51710	0.2701632	0.23055329	2.6340368	21	6 4.3	21.6
221143 2005 TP_{19}	17.4	X	253.29389	231.65229	226.52801	2.07338	0.1534424	0.24398491	2.5364564	21	9 13.5	20.7
221144 2005 TU_{19}	16.7	X	324.02152	35.24946	228.88010	1.55353	0.1603557	0.22909436	2.6452077	21	3 28.8	19.7
221145 2005 TN_{21}	16.7	X	263.18889	181.55749	163.89189	4.44338	0.1184299	0.22944986	2.6424748	21	5 4.2	20.5
221146 2005 TE_{26}	17.1	X	307.35087	168.28140	191.65072	1.79172	0.1298265	0.23686748	2.5870159	21	7 21.2	20.1
221147 2005 TY_{35}	16.8	X	249.40439	35.94614	54.02866	2.72809	0.1537639	0.24148815	2.5539095	21	8 30.8	20.3
221148 2005 TH_{41}	16.2	X	246.13277	18.37448	35.36270	2.29080	0.2414540	0.22713423	2.6604044	21	6 28.7	20.4
221149 Cindyfoote	16.6	X	258.74755	37.77031	341.01237	3.87895	0.0367062	0.23343149	2.6123403	21	6 22.0	20.1
221150 Jerryfoote	16.2	X	241.95764	169.63412	201.97701	9.67755	0.1238684	0.22929822	2.6436397	21	5 13.4	20.2
221151 2005 TF_{62}	17.5	X	333.39377	148.69678	165.47210	2.80810	0.1603323	0.23591199	2.5939964	21	6 26.6	20.0
221152 2005 TR_{62}	16.4	X	191.20666	188.08600	191.33805	6.32279	0.0606263	0.21987013	2.7186829	21	3 31.5	20.3
221153 2005 TU_{73}	16.8	X	31.79037	292.52149	38.93892	7.15299	0.1530653	0.25232707	2.4802387	21	11 16.0	19.7
221154 2005 TY_{75}	15.4	X	273.86280	148.15017	226.05680	12.14227	0.2138694	0.23302428	2.6153828	21	6 9.4	19.2
221155 2005 TK_{79}	16.5	X	342.96797	290.65042	345.27893	12.84234	0.2050695	0.23384308	2.6092741	21	5 6.0	19.3
221156 2005 TH_{81}	16.0	X	314.47883	52.90235	213.75950	13.12941	0.1010854	0.22526018	2.6751395	21	3 25.9	19.7
221157 2005 TZ_{91}	16.1	X	309.97795	323.05246	292.77371	5.21157	0.0745686	0.22159067	2.7045919	21	3 10.1	19.7
221158 2005 TD_{101}	15.9	X	109.77365	98.98328	31.36221	11.90275	0.0239893	0.22516423	2.6758994	21	5 9.3	19.5
221159 2005 TD_{105}	16.8	X	242.37306	30.76364	353.99760	7.34537	0.2760069	0.22982027	2.6396347	21	5 14.7	21.5
221160 2005 TM_{106}	16.4	X	342.07659	266.37632	5.40476	7.29018	0.1900683	0.23066345	2.6331981	21	5 4.1	19.2
221161 2005 TP_{106}	15.8	X	206.49091	124.18850	329.91725	11.20750	0.1330445	0.23302679	2.6153640	21	7 22.6	19.9
221162 2005 TZ_{107}	17.2	X	258.09296	65.55734	24.29883	2.93035	0.0979481	0.24294747	2.5436721	21	9 18.8	20.4
221163 2005 TU_{113}	17.1	X	139.39986	174.02781	356.42075	1.45248	0.0785840	0.23797604	2.5789756	21	8 17.7	20.7
221164 2005 TY_{121}	17.6	X	268.49718	263.65759	194.08801	11.95878	0.2352776	0.24367676	2.5385943	21	9 19.7	20.9
221165 2005 TT_{124}	16.7	X	130.58328	162.17807	16.13174	7.62388	0.1359828	0.23578560	2.5949233	21	8 24.8	20.7
221166 2005 TE_{131}	17.1	X	137.73692	233.49802	171.21652	4.11351	0.0716139	0.21415731	2.7668192	21	3 3.9	21.0
221167 2005 TJ_{131}	16.2	X	61.37756	118.68806	44.12588	5.81775	0.0961169	0.22045810	2.7138469	21	4 28.6	19.3
221168 2005 TV_{131}	16.6	X	183.70719	208.22569	154.08770	2.00172	0.1070008	0.21641808	2.7475168	21	3 4.5	20.8
221169 2005 TS_{135}	17.1	X	282.72127	288.36492	158.86193	3.85753	0.1639505	0.24714889	2.5147623	21	10 11.9	20.0
221170 2005 TH_{138}	16.4	X	6.93217	167.66492	149.59213	4.46217	0.0670556	0.24057942	2.5603366	21	9 5.3	19.2
221171 2005 TP_{160}	16.7	X	133.99892	234.13274	295.35710	3.32278	0.0276470	0.23574720	2.5952051	21	8 4.9	20.0
221172 2005 TE_{171}	15.5	X	16.60163	340.34308	276.37484	10.90138	0.0217943	0.23207253	2.6225285	21	6 22.7	18.9
221173 2005 TX_{171}	16.8	X	249.54678	67.60667	345.38575	10.16791	0.2873467	0.23349007	2.6119033	21	6 27.2	21.2
221174 2005 TD_{181}	16.6	X	20.02239	206.88500	53.79699	0.66855	0.1399125	0.23539871	2.5977658	21	7 11.8	19.2
221175 2005 UR_{7}	15.4	X	83.97135	339.90336	238.43223	12.68341	0.1480574	0.23843753	2.5756468	21	8 17.6	19.3
221176 2005 UN_{9}	16.8	X	239.74335	240.02475	171.04297	7.61829	0.1876118	0.23286368	2.6165852	21	6 23.9	21.0
221177 2005 UH_{10}	16.1	X	204.36738	216.75100	158.96402	7.08217	0.1099594	0.22187215	2.7023039	21	4 11.9	20.3
221178 2005 UE_{18}	16.7	X	230.48820	137.85108	264.00215	1.04100	0.0895637	0.23046965	2.6346741	21	6 11.1	20.5
221179 2005 UQ_{18}	16.1	X	284.05481	256.61276	90.19564	2.90309	0.1436169	0.22996301	2.6385423	21	5 27.1	19.4
221180 2005 UR_{20}	15.5	X	157.77380	233.43556	235.38020	12.90734	0.1476226	0.22479153	2.6788563	21	6 20.3	19.8
221181 2005 UA_{23}	16.5	X	64.94466	159.48866	16.74939	5.67273	0.0954194	0.22285470	2.6943552	21	5 20.8	19.9
221182 2005 UG_{25}	16.9	X	349.68157	258.42479	342.24331	1.10684	0.0173370	0.22215544	2.7000061	21	4 23.2	20.5
221183 2005 UY_{28}	16.6	X	269.48703	34.91574	4.82267	2.41397	0.2157046	0.23511798	2.5998332	21	7 8.6	20.2
221184 2005 UA_{29}	16.1	X	198.78776	153.01378	231.90488	6.38027	0.0960574	0.22038326	2.7144613	21	4 14.7	20.3
221185 2005 UN_{29}	15.9	X	103.82207	275.32071	227.72244	4.48333	0.0590480	0.22247063	2.6974553	21	5 26.2	19.4
221186 2005 UD_{30}	15.9	X	173.91403	16.74585	53.90256	10.54224	0.1568744	0.22166676	2.7039729	21	5 19.3	20.2
221187 2005 UV_{31}	16.8	X	209.35352	212.49450	197.27858	1.82588	0.0458008	0.22674376	2.6634578	21	5 31.1	20.5
221188 2005 UJ_{37}	16.5	X	241.58126	197.82936	189.55785	3.85754	0.2287882	0.22854607	2.6494367	21	5 23.8	20.9
221189 2005 UN_{41}	15.5	X	292.51585	228.50349	191.91670	8.43008	0.1506038	0.24005238	2.5640828	21	9 18.6	18.4
221190 2005 UP_{43}	16.4	X	223.56005	15.95793	347.42883	3.23917	0.1095846	0.22213297	2.7001882	21	4 12.9	20.6
221191 2005 UF_{48}	16.7	X	337.73775	243.29416	102.09283	3.97666	0.1851079	0.24107871	2.5568003	21	8 25.0	18.8
221192 2005 UY_{48}	15.9	X	267.53958	8.46589	264.61765	3.79875	0.0455395	0.21503146	2.7593157	21	2 13.5	19.9
221193 2005 UQ_{49}	16.2	X	230.93697	310.17345	37.02139	3.12472	0.0765436	0.21961040	2.7208261	21	4 4.2	20.2
221194 2005 UF_{52}	16.0	X	176.09282	146.68623	274.66584	5.81223	0.0774896	0.22274660	2.6952269	21	5 5.9	20.1
221195 2005 UJ_{53}	16.0	X	115.62359	356.81556	94.98897	3.37190	0.0339610	0.21763811	2.7372392	21	4 2.1	19.7
221196 2005 UR_{54}	16.2	X	292.63335	125.55636	243.21691	11.11450	0.2839101	0.23643322	2.5901826	21	6 14.8	19.7
221197 2005 UV_{54}	16.3	X	306.57690	4.44777	7.86834	4.71954	0.2914535	0.23890055	2.5723177	21	7 11.6	19.1
221198 2005 UH_{55}	16.4	X	280.72845	341.91225	2.92581	3.92140	0.2240330	0.23109880	2.6298900	21	5 7.2	20.1
221199 2005 UU_{55}	16.3	X	172.67854	213.60834	216.96083	7.09651	0.1958230	0.22199615	2.7012975	21	5 20.0	20.8
221200 2005 UA_{56}	16.2	X	263.23520	147.49040	218.70761	1.67441	0.1728459	0.22944853	2.6424850	21	5 23.4	20.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
221201 2005 UY_{56}	16.0	X	252.69186	337.94151	6.31782	7.64142	0.0165370	0.22385154	2.6863504	21	4 29.1	19.7
221202 2005 UR_{61}	16.7	X	177.48096	82.92878	64.76457	3.57340	0.0994682	0.23433702	2.6056062	21	8 31.7	20.6
221203 2005 UT_{65}	16.3	X	158.38622	97.53233	313.44984	6.00388	0.1806135	0.21944067	2.7222289	21	4 9.3	20.8
221204 2005 UH_{67}	16.9	X	228.66870	281.18386	167.82077	3.67985	0.1964033	0.23495283	2.6010513	21	7 30.5	21.0
221205 2005 UE_{70}	16.2	X	147.28913	137.63368	304.97002	11.25524	0.1359984	0.22182090	2.7027201	21	5 3.2	20.6
221206 2005 UO_{72}	16.5	X	254.34091	204.90701	182.35937	1.71630	0.1065911	0.23085872	2.6317130	21	6 18.1	20.1
221207 2005 UD_{74}	16.1	X	167.71649	209.41621	201.17108	4.65875	0.1107769	0.21766131	2.7370447	21	4 16.9	20.1
221208 2005 UX_{76}	16.4	X	292.67357	218.13255	136.54575	12.47465	0.1870350	0.23444861	2.6047793	21	6 13.1	20.0
221209 2005 UZ_{76}	16.1	X	261.60463	264.01102	117.41327	12.74541	0.2071916	0.23238546	2.6201737	21	6 8.1	20.1
221210 2005 UJ_{79}	15.8	X	291.39391	204.22083	208.38919	11.55397	0.0555145	0.23950990	2.5679530	21	9 17.6	19.1
221211 2005 UC_{80}	15.8	X	273.58413	170.24370	207.11300	9.50255	0.2368190	0.23286195	2.6165982	21	6 10.5	19.7
221212 2005 UE_{80}	16.2	X	237.56927	289.71749	72.20429	9.69283	0.2014554	0.22398341	2.6852959	21	4 23.5	20.7
221213 2005 UH_{81}	16.5	X	111.46848	93.00769	291.64614	0.98488	0.0777865	0.20292434	2.8680054	21	1 9.5	20.3
221214 2005 UQ_{85}	16.6	X	134.67731	44.63471	139.88476	2.28974	0.0517679	0.23688895	2.5868595	21	8 28.8	20.1
221215 2005 UA_{88}	17.0	X	13.24851	119.65903	197.64466	3.80637	0.1542323	0.24292478	2.5438305	21	9 24.5	19.4
221216 2005 UM_{91}	15.7	X	326.67500	332.72822	338.70062	4.41739	0.1482358	0.23258077	2.6187066	21	6 10.8	18.6
221217 2005 UJ_{96}	15.9	X	227.33264	310.24863	51.51467	12.28321	0.2031219	0.22361244	2.6882650	21	4 14.7	20.5
221218 2005 UK_{96}	16.0	X	301.47431	165.62395	87.24092	4.29352	0.0461050	0.21520146	2.7578623	21	3 5.2	19.8
221219 2005 UK_{101}	16.5	X	151.90469	222.86666	172.29316	5.63650	0.0825944	0.21376167	2.7702322	21	3 9.6	20.4
221220 2005 UF_{111}	17.0	X	263.75965	68.11369	348.93738	1.91340	0.1858963	0.23492653	2.6012455	21	7 29.3	20.5
221221 2005 UR_{114}	16.3	X	231.53085	192.15230	181.98646	14.39704	0.1355631	0.22638704	2.6662550	21	5 6.4	20.6
221222 2005 UH_{125}	16.3	X	217.42664	294.66644	9.27498	1.58939	0.0663206	0.20970282	2.8058634	21	1 28.1	20.3
221223 2005 UK_{127}	16.5	X	251.96462	281.65120	37.72885	2.82946	0.1161282	0.21946233	2.7220497	21	3 20.4	20.5
221224 2005 UA_{128}	16.8	X	171.74364	61.31926	263.42013	0.92218	0.0665364	0.20554156	2.8436073	21	1 4.8	21.0
221225 2005 UN_{132}	15.9	X	178.83411	223.82203	185.43334	13.29284	0.1404326	0.21992996	2.7181899	21	4 29.2	20.3
221226 2005 UQ_{138}	16.4	X	151.85029	274.57939	202.77798	2.51575	0.0644263	0.22605318	2.6688795	21	6 21.1	20.2
221227 2005 UA_{148}	16.4	X	109.08136	191.20404	13.55086	4.42929	0.0851152	0.23458090	2.6038000	21	8 29.2	20.0
221228 2005 UL_{156}	15.8	X	292.24609	36.75062	218.15785	9.38004	0.2097148	0.21761945	2.7373957	21	1 28.6	20.1
221229 2005 UA_{158}	17.3	X	293.51616	108.50372	218.68120	0.47119	0.0971396	0.22951424	2.6419806	21	5 20.2	20.6
221230 Sanaloria	16.5	X	121.90712	183.01884	239.38101	2.50027	0.0938122	0.21091330	2.7951175	21	3 9.7	20.4
221231 2005 UP_{160}	16.5	X	222.84161	194.13065	187.59638	11.84382	0.1890168	0.22625747	2.6672728	21	5 3.9	21.0
221232 2005 UZ_{176}	16.2	X	274.48411	278.36608	31.70913	4.14392	0.0727761	0.22015591	2.7163297	21	4 7.6	19.8
221233 2005 UT_{177}	16.1	X	198.07506	335.07236	36.81062	6.57725	0.0428617	0.21698704	2.7427119	21	3 31.7	20.0
221234 2005 UG_{178}	16.6	X	228.47183	1.65110	21.06157	3.20067	0.0942352	0.22489087	2.6780674	21	5 13.9	20.6
221235 2005 UG_{182}	16.7	X	273.21203	326.34567	320.04820	0.03016	0.0372595	0.21457380	2.7632377	21	3 11.6	20.5
221236 2005 US_{190}	16.3	X	222.54018	148.30493	233.39406	2.14759	0.1065914	0.22391807	2.6858182	21	5 6.0	20.1
221237 2005 UT_{190}	16.7	X	295.71290	106.88054	234.39799	1.64422	0.1589501	0.23146515	2.6271144	21	6 1.8	20.0
221238 2005 UQ_{200}	16.8	X	103.90011	266.85966	181.26834	2.14212	0.0279873	0.21359880	2.7716401	21	3 10.9	20.5
221239 2005 UZ_{203}	16.0	X	228.49519	257.70115	54.73816	5.67489	0.1150954	0.21414527	2.7669229	21	2 18.8	20.3
221240 2005 UT_{214}	15.6	X	57.40056	301.71720	176.46198	11.56353	0.1637033	0.21106460	2.7937816	21	2 27.9	18.6
221241 2005 UK_{215}	15.6	X	267.17303	223.50204	90.19940	12.64387	0.1031851	0.22214012	2.7001302	21	4 5.9	19.7
221242 2005 UQ_{216}	16.4	X	238.61143	310.46170	71.29178	3.18738	0.2178799	0.22643751	2.6658587	21	5 14.7	20.8
221243 2005 UF_{221}	16.7	X	241.09545	290.89336	323.44728	3.18993	0.0729469	0.20577800	2.8414286	21	—	—
221244 2005 UB_{227}	16.3	X	272.29183	285.78710	60.87099	3.27588	0.0198730	0.22639370	2.6662026	21	5 29.9	19.8
221245 2005 UC_{238}	15.8	X	269.49102	256.39357	89.99486	6.69164	0.1279506	0.22671473	2.6636852	21	5 12.1	19.6
221246 2005 UK_{240}	16.0	X	239.43086	106.55393	196.30248	8.62651	0.1456086	0.21465487	2.7625420	21	2 11.4	20.6
221247 2005 UT_{245}	15.8	X	188.11036	332.35497	67.24479	14.81740	0.2018899	0.22046832	2.7137630	21	4 28.9	20.5
221248 2005 UN_{251}	16.4	X	309.57773	9.60206	339.39983	4.34253	0.2762897	0.23672516	2.5880527	21	6 13.7	19.4
221249 2005 UE_{252}	16.8	X	255.71823	47.30219	338.69120	2.94225	0.2539760	0.23070269	2.6328995	21	5 31.5	21.0
221250 2005 UY_{253}	16.0	X	211.58124	341.41669	20.78810	7.23097	0.1313926	0.21884193	2.7271918	21	3 31.9	20.3
221251 2005 UJ_{257}	16.9	X	248.02409	128.53216	179.40947	2.27085	0.0476478	0.21668577	2.7452535	21	3 6.9	20.9
221252 2005 UL_{257}	16.3	X	291.00719	207.15250	69.87805	3.76114	0.1501564	0.22043737	2.7140170	21	3 7.3	20.1
221253 2005 UG_{267}	17.0	X	43.42880	75.63927	178.79744	3.26926	0.0201477	0.23214633	2.6219727	21	7 27.3	20.3
221254 2005 UJ_{274}	15.6	X	219.53782	166.63469	296.36026	17.86811	0.1427676	0.23753558	2.5821627	21	8 9.6	19.7
221255 2005 UJ_{275}	16.0	X	241.96386	81.81114	255.91998	4.18280	0.0717569	0.22130600	2.7069107	21	4 2.2	20.0
221256 2005 UG_{282}	17.0	X	294.48675	230.10153	104.27885	2.77391	0.0986742	0.23108328	2.6300078	21	5 31.5	20.3
221257 2005 UY_{284}	16.5	X	265.96246	250.71026	103.15341	4.73351	0.0941260	0.22866798	2.6484950	21	5 21.5	20.2
221258 2005 UJ_{292}	16.5	X	4.52395	302.00543	353.16826	2.87500	0.0571054	0.23381176	2.6095071	21	7 30.9	19.6
221259 2005 UM_{299}	16.6	X	157.33658	283.12366	212.08906	2.27066	0.1067547	0.22877541	2.6476658	21	7 22.4	20.7
221260 2005 UB_{303}	16.3	X	268.00751	204.70255	159.62561	5.51824	0.2109230	0.23011774	2.6373594	21	5 22.8	20.3
221261 2005 UW_{303}	16.0	X	158.48315	178.82478	192.63229	9.33835	0.0997699	0.21002105	2.8030284	21	2 15.6	20.2
221262 2005 UY_{305}	16.9	X	228.14064	3.28979	23.91996	2.41120	0.0365952	0.22639623	2.6661828	21	5 24.3	20.7
221263 2005 UT_{308}	17.2	X	340.25205	30.29604	219.68530	2.31546	0.1391807	0.22549963	2.6732454	21	4 8.5	20.1
221264 2005 UX_{308}	15.7	X	342.15551	88.85778	202.81162	13.88724	0.0307042	0.23052246	2.6342716	21	6 19.9	19.3
221265 2005 UQ_{309}	15.5	X	313.87406	299.67977	234.64179	18.75316	0.0839393	0.20062059	2.8899193	21	—	—
221266 2005 UW_{310}	16.7	X	327.72511	229.71350	85.73511	2.52061	0.0557589	0.23399254	2.6081629	21	6 30.2	19.8
221267 2005 US_{313}	15.8	X	214.08271	263.11502	77.10763	15.99962	0.1587320	0.21842588	2.7306539	21	3 15.1	20.6
221268 2005 UT_{317}	16.3	X	238.68928	81.67537	35.67408	10.04611	0.0466793	0.24222358	2.5487374	21	10 9.3	19.7
221269 2005 UL_{320}	16.5	X	102.28612	15.38897	153.09264	2.96123	0.1285660	0.22508943	2.6764922	21	7 6.9	20.2
221270 2005 UN_{321}	16.4	X	59.39716	136.25218	37.55880	3.92704	0.1299221	0.21721708	2.7407751	21	5 15.1	19.7
221271 2005 UY_{322}	16.3	X	332.35715	338.61261	310.57203	1.02819	0.0305609	0.22703534	2.6611769	21	6 2.6	19.7
221272 2005 UL_{324}	16.3	X	303.77837	179.01056	174.88183	2.56226	0.0710206	0.23373377	2.6100875	21	7 15.4	19.4
221273 2005 UH_{334}	16.4	X	197.55598	304.99249	79.52907	5.99447	0.1335141	0.21884645	2.7271543	21	4 16.8	20.7
221274 2005 UH_{335}	16.0	X	303.24376	342.10072	320.53887	11.75193	0.2527742	0.23156692	2.6263445	21	3 30.7	19.8
221275 2005 UD_{340}	16.5	X	279.88928	256.49881	97.64793	2.87929	0.0924731	0.23012667	2.6372912	21	6 8.3	19.9
221276 2005 UQ_{340}	16.6	X	163.26652	231.58143	140.37396	4.28483	0.1057298	0.21223603	2.7834920	21	2 24.3	20.9
221277 2005 US_{340}	16.5	X	277.37746	195.39293	150.82079	3.96508	0.1752263	0.22947953	2.6422470	21	5 14.3	20.3
221278 2005 UO_{343}	16.4	X	160.87465	229.95218	159.97561	5.49927	0.1757336	0.21480100	2.7612890	21	3 20.9	20.8
221279 2005 UU_{348}	15.0	X	331.44297	278.88620	20.06823	13.08918	0.1985698	0.23034628	2.6356146	21	5 21.1	17.9
221280 2005 UZ_{348}	16.1	X	263.53547	189.56948	197.49586	13.50018	0.2505198	0.23279397	2.6171075	21	6 10.7	20.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
221281 2005 US_{351}	16.4	X	21.55571	343.41275	315.67130	3.60402	0.1471719	0.24119116	2.5560055	21	9 10.9	19.1
221282 2005 UP_{353}	16.1	X	242.03100	355.75618	344.27903	5.30676	0.0611174	0.22075514	2.7114119	21	4 6.4	19.9
221283 2005 UB_{354}	16.0	X	308.92394	321.28623	17.41649	5.93175	0.2125647	0.23280168	2.6170498	21	6 8.5	19.1
221284 2005 UW_{355}	16.2	X	254.84492	254.35616	99.61223	2.93167	0.1051497	0.22396251	2.6854629	21	5 7.1	20.0
221285 2005 UZ_{357}	16.4	X	86.88142	249.92551	331.19968	3.80751	0.0971745	0.24030013	2.5623201	21	8 24.0	19.5
221286 2005 UJ_{374}	16.5	X	143.25815	63.32963	269.38950	0.95949	0.0722768	0.20058898	2.8902229	21	—	—
221287 2005 UM_{379}	16.6	X	299.17603	105.85510	194.41559	5.54381	0.1079452	0.22599673	2.6693240	21	4 20.7	20.0
221288 2005 UF_{383}	16.1	X	325.67123	167.38766	157.04498	13.50609	0.2541396	0.23617643	2.5920598	21	6 13.6	19.0
221289 2005 UO_{386}	15.7	X	291.22987	244.08892	104.66311	14.28760	0.2156787	0.23380963	2.6095229	21	5 30.6	19.3
221290 2005 UQ_{439}	16.2	X	310.12862	121.95497	238.93976	13.88427	0.0850489	0.23955707	2.5676159	21	7 28.6	19.6
221291 2005 UF_{440}	15.9	X	170.89623	183.43268	239.11201	13.44724	0.0493083	0.22368354	2.6876953	21	4 30.4	19.8
221292 2005 UK_{449}	16.0	X	254.73923	24.57303	1.70556	7.79336	0.1947226	0.23021706	2.6366008	21	6 5.3	20.1
221293 2005 UL_{449}	16.1	X	180.93130	38.97521	7.09881	9.28136	0.1155106	0.21929465	2.7234372	21	4 22.2	20.4
221294 2005 UX_{449}	16.1	X	221.98815	9.29835	310.31830	2.77186	0.0876286	0.21147803	2.7901392	21	2 19.1	20.3
221295 2005 UB_{460}	16.3	X	201.68151	283.63931	35.40422	3.60025	0.1363477	0.20893948	2.8126933	21	1 31.9	20.8
221296 2005 UT_{479}	16.6	X	202.74058	297.64921	162.13788	6.26542	0.2314031	0.23043254	2.6349569	21	7 18.6	21.1
221297 2005 UG_{482}	16.8	X	206.12650	121.89260	317.70894	2.44802	0.0954654	0.23206037	2.6226202	21	7 3.2	20.7
221298 2005 UA_{487}	16.0	X	304.66040	3.14128	324.74719	14.89073	0.1483251	0.23401456	2.6079993	21	5 25.5	19.7
221299 2005 UD_{491}	15.9	X	241.55265	337.93274	352.22266	6.69953	0.1141274	0.21989219	2.7185011	21	3 21.4	20.0
221300 2005 UJ_{493}	16.0	X	201.75906	44.22014	334.89052	11.42258	0.1914475	0.22133440	2.7066791	21	4 6.3	20.7
221301 2005 UZ_{494}	16.2	X	168.96463	280.84878	154.59915	13.75265	0.1657944	0.22086672	2.7104986	21	5 24.6	20.9
221302 2005 UK_{500}	16.0	X	320.04316	146.60977	182.59813	14.14873	0.1913659	0.23463395	2.6034075	21	6 18.9	19.1
221303 2005 UQ_{501}	16.5	X	292.45191	182.53649	171.29135	14.72290	0.2691039	0.23372315	2.6101666	21	5 30.3	20.3
221304 2005 UJ_{509}	16.2	X	221.78796	41.86701	272.45075	3.18109	0.0600882	0.21166865	2.7884639	21	2 12.5	20.4
221305 2005 UF_{516}	16.5	X	218.77740	79.17755	231.03767	5.47987	0.0287342	0.20888189	2.8132102	21	2 4.3	20.7
221306 2005 US_{521}	16.5	X	138.18572	268.52754	155.84567	5.56361	0.0307843	0.21959872	2.7209226	21	3 25.0	20.3
221307 2005 UA_{527}	16.7	X	109.55739	226.43869	206.02375	3.56636	0.0848327	0.20974618	2.8054767	21	3 6.2	20.6
221308 2005 VX	16.5	X	212.47970	183.99061	181.03171	5.31441	0.0789495	0.22082724	2.7108217	21	4 6.3	20.4
221309 2005 VK_{5}	15.9	X	357.52039	48.03859	288.81592	7.10275	0.2061310	0.24254873	2.5464591	21	9 22.7	18.3
221310 2005 VZ_{15}	16.1	X	17.60288	0.83752	313.13895	12.75064	0.1443280	0.24275394	2.5450239	21	9 19.7	19.1
221311 2005 VW_{16}	15.7	X	221.19654	206.25019	193.53758	14.08713	0.1091502	0.22584279	2.6705368	21	5 29.0	19.9
221312 2005 VE_{17}	16.1	X	151.00080	223.00007	207.81478	8.97435	0.1520892	0.21619038	2.7494457	21	4 28.5	20.3
221313 2005 VN_{26}	16.7	X	324.90886	75.08563	259.02887	3.90311	0.2629757	0.23823750	2.5770883	21	6 23.8	19.1
221314 2005 VB_{42}	15.7	X	253.05282	226.72819	90.31248	10.22556	0.1329423	0.22049000	2.7135851	21	3 21.5	20.0
221315 2005 VM_{42}	16.1	X	314.30324	166.94910	186.08923	10.17256	0.2553299	0.23701054	2.5859747	21	7 1.6	19.0
221316 2005 VW_{50}	16.8	X	224.79079	227.02142	164.75014	7.28431	0.1358218	0.22740198	2.6583157	21	5 21.2	21.0
221317 2005 VT_{51}	16.0	X	292.19160	129.25733	166.39601	9.92462	0.0842630	0.22324686	2.6911990	21	4 10.9	19.6
221318 2005 VF_{53}	15.7	X	278.75393	235.02175	174.71598	4.37684	0.1172442	0.23528264	2.5986201	21	8 17.9	18.9
221319 2005 VG_{61}	15.5	X	310.52005	126.27748	197.23775	11.93819	0.1461987	0.23108704	2.6299792	21	6 2.4	18.8
221320 2005 VG_{77}	16.4	X	327.07796	257.34401	327.47774	1.59272	0.0487482	0.21594211	2.7515526	21	2 28.0	19.9
221321 2005 VD_{86}	16.5	X	300.00153	185.80883	186.80734	4.89597	0.1516479	0.23475555	2.6025084	21	7 22.9	19.7
221322 2005 VG_{98}	16.5	X	343.65091	84.83149	241.87552	6.91641	0.2188268	0.23848797	2.5752836	21	8 1.6	18.7
221323 2005 VO_{98}	15.2	X	273.23554	58.43182	321.62210	14.36792	0.0815158	0.23276263	2.6173424	21	7 9.1	18.8
221324 2005 VC_{102}	15.1	X	208.52108	135.41752	11.55568	12.87794	0.2272324	0.23745758	2.5827281	21	9 23.3	19.3
221325 2005 VK_{102}	16.3	X	253.29785	358.06620	53.87586	15.55066	0.2465896	0.23285813	2.6166267	21	7 2.4	20.6
221326 2005 VK_{106}	16.5	X	234.69064	349.71673	52.28764	4.54634	0.1887015	0.22815414	2.6524700	21	6 7.1	20.6
221327 2005 VY_{109}	16.4	X	105.07967	146.26141	52.90117	7.12011	0.1036835	0.23265517	2.6181483	21	8 20.9	20.2
221328 2005 VV_{117}	16.0	X	295.44373	221.30839	151.18188	14.78060	0.1350931	0.23512341	2.5997932	21	7 18.5	19.3
221329 2005 VM_{120}	15.8	X	339.29664	79.90243	320.25137	3.65862	0.1837032	0.17451475	3.1713776	21	11 1.7	19.4
221330 2005 VO_{124}	16.7	X	22.49241	277.33866	298.82564	0.72698	0.0091673	0.22036635	2.7146001	21	5 5.9	20.4
221331 2005 VG_{131}	16.3	X	250.88300	142.30124	153.04774	6.99373	0.0184224	0.21639245	2.7477338	21	2 25.7	19.9
221332 2005 WB_{2}	16.3	X	150.67403	263.84405	74.44599	3.03594	0.0815645	0.20196930	2.8770394	21	—	—
221333 2005 WL_{2}	15.5	X	196.44437	129.79817	358.10166	32.07161	0.1950314	0.23336355	2.6128473	21	9 1.4	20.1
221334 2005 WX_{2}	15.5	X	333.88146	317.56666	337.51144	11.21715	0.1764929	0.23300194	2.6155500	21	5 23.7	18.6
221335 2005 WK_{7}	16.2	X	203.68175	34.90655	8.11049	5.25006	0.0665003	0.22320858	2.6915067	21	5 13.2	20.2
221336 2005 WE_{8}	15.7	X	264.91005	352.81188	25.20686	13.70224	0.2932275	0.22963025	2.6410907	21	5 23.3	20.1
221337 2005 WG_{13}	16.2	X	163.10538	24.01383	211.13664	1.23392	0.0175927	0.18488680	3.0516316	21	11 27.2	20.5
221338 2005 WP_{15}	16.1	X	231.90852	115.76262	250.99441	5.62578	0.0654141	0.22079925	2.7110508	21	4 29.2	20.0
221339 2005 WO_{25}	16.7	X	195.51590	31.62161	315.05000	2.98357	0.1070915	0.21143615	2.7905077	21	2 25.2	20.9
221340 2005 WU_{33}	16.2	X	305.95488	322.24840	62.34789	6.13554	0.2750785	0.23788785	2.5796129	21	8 2.3	18.9
221341 2005 WQ_{37}	16.1	X	169.68948	125.96535	199.35945	1.25188	0.0652103	0.20077995	2.8883900	21	1 3.9	20.4
221342 2005 WS_{58}	15.5	X	237.30437	293.45852	236.03912	6.61954	0.0911203	0.18015723	3.1048092	21	11 24.8	19.9
221343 2005 WT_{58}	16.0	X	128.07602	333.23046	119.57565	7.20143	0.1341084	0.21259196	2.7803843	21	5 3.3	20.2
221344 2005 WS_{70}	16.1	X	110.71686	205.41756	241.62609	3.18001	0.0341199	0.21302617	2.7766049	21	3 17.9	19.8
221345 2005 WE_{81}	15.8	X	197.10069	160.18052	56.98423	1.96692	0.1283956	0.18407673	3.0605780	21	12 5.3	20.5
221346 2005 WG_{85}	16.3	X	129.90209	269.58035	210.27089	6.50696	0.1336572	0.22401787	2.6850205	21	6 5.9	20.3
221347 2005 WZ_{85}	16.4	X	243.80100	128.43269	217.65662	2.11996	0.1084760	0.22074105	2.7115273	21	4 13.4	20.5
221348 2005 WN_{89}	16.3	X	302.81448	122.40304	237.53769	3.61247	0.3480341	0.23624098	2.5915876	21	6 6.4	19.3
221349 2005 WJ_{96}	15.2	X	187.11554	172.02619	83.10973	11.71359	0.1222015	0.18981694	2.9985599	21	—	—
221350 2005 WQ_{103}	15.1	X	234.72433	239.75146	234.49985	33.56610	0.0618164	0.23675349	2.5878462	21	9 14.7	19.4
221351 2005 WN_{108}	16.3	X	252.25748	168.48562	186.62611	1.69220	0.1010563	0.22426555	2.6830433	21	5 5.4	20.3
221352 2005 WU_{110}	16.1	X	298.95601	218.91177	85.37851	2.58537	0.0608421	0.22116777	2.7080384	21	5 3.7	19.7
221353 2005 WL_{114}	16.5	X	215.54255	50.96258	334.01901	3.28849	0.1565600	0.22167661	2.7038928	21	4 29.8	20.8
221354 2005 WR_{118}	16.6	X	224.96127	344.68485	10.45746	3.49996	0.1728991	0.21970088	2.7200790	21	4 2.5	21.1
221355 2005 WS_{119}	16.2	X	105.51896	248.20671	234.64084	7.52367	0.2407512	0.21496660	2.7598707	21	5 27.0	20.2
221356 2005 WM_{129}	16.1	X	174.95870	75.50445	246.08567	6.00802	0.1215676	0.20432138	2.8549171	21	1 8.1	20.5
221357 2005 WL_{133}	16.7	X	206.74415	10.68375	287.48217	1.02037	0.0418395	0.20266349	2.8704657	21	1 10.3	20.8
221358 2005 WN_{140}	15.5	X	5.60807	126.64109	279.65622	8.32879	0.0465881	0.18245136	3.0787279	21	12 17.5	19.6
221359 2005 WM_{148}	15.6	X	267.85351	249.73500	78.78011	15.74481	0.1267220	0.22439928	2.6819772	21	4 22.8	19.7
221360 2005 WZ_{151}	15.9	X	322.54253	330.17193	15.14356	3.35204	0.1601540	0.23527501	2.5986763	21	7 24.2	18.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
221361 2005 WQ_{154}	15.8	*X*	263.30020	247.11541	74.87964	4.60377	0.0341287	0.21578250	2.7529093	21	4 16.1	19.5
221362 2005 WC_{158}	15.3	*X*	94.19821	188.30289	99.82274	5.29174	0.1772897	0.17543154	3.1603190	21	11 26.5	20.2
221363 2005 WC_{159}	15.7	*X*	332.30316	194.52627	128.08122	15.15869	0.1693661	0.23316138	2.6143575	21	7 6.7	18.4
221364 2005 WR_{159}	16.9	*X*	135.83896	280.70933	213.84967	1.71535	0.0260635	0.22413690	2.6840698	21	6 20.8	20.5
221365 2005 WD_{161}	16.3	*X*	191.98706	122.85430	271.46007	6.80000	0.2975757	0.21981741	2.7191176	21	4 19.7	21.4
221366 2005 WH_{164}	15.6	*X*	78.64748	313.20840	230.13621	8.22847	0.1992644	0.22219765	2.6996641	21	7 6.3	19.3
221367 2005 WF_{167}	16.9	*X*	193.78659	28.94819	294.56790	1.01498	0.0597796	0.20601010	2.8392941	21	1 26.5	20.9
221368 2005 WO_{182}	15.7	*X*	197.32334	123.39698	322.67526	15.02102	0.1375378	0.22918571	2.6445048	21	7 2.8	20.1
221369 2005 WB_{183}	15.9	*X*	205.21657	283.89694	117.03891	12.12226	0.0692042	0.22366333	2.6878572	21	5 17.6	20.0
221370 2005 WK_{195}	15.1	*X*	97.91758	304.02040	70.00063	11.27289	0.1113301	0.19666512	2.9285400	21	—	—
221371 2005 XU	16.1	*X*	293.98703	227.40975	169.45927	7.87122	0.1965542	0.23722231	2.5844355	21	8 9.5	19.2
221372 2005 XN_{6}	15.9	*X*	350.28485	307.12926	36.09495	5.53606	0.3060566	0.24149559	2.5538571	21	9 29.8	17.1
221373 2005 XV_{6}	16.4	*X*	247.34783	157.10635	241.89025	1.63826	0.1121305	0.22829570	2.6513734	21	6 24.6	20.3
221374 2005 XH_{54}	16.9	*X*	221.96526	98.12316	294.76330	1.69447	0.0921924	0.22323576	2.6912882	21	5 20.4	20.9
221375 2005 XF_{55}	16.2	*X*	167.02850	1.11463	43.92926	5.05850	0.1123467	0.21468748	2.7622622	21	4 10.6	20.4
221376 2005 XL_{56}	16.9	*X*	202.89510	142.95567	293.57623	6.95369	0.1845811	0.28767857	2.2726421	21	6 21.5	20.5
221377 2005 XD_{62}	16.6	*X*	190.97586	225.64866	195.66003	2.86417	0.1013408	0.22081118	2.7109532	21	5 24.4	20.8
221378 2005 XZ_{66}	16.9	*X*	201.69542	42.43622	41.65621	7.93003	0.2919728	0.22407005	2.6846037	21	6 27.3	21.8
221379 2005 XY_{81}	16.1	*X*	266.21833	317.50088	177.37001	1.58828	0.0449208	0.18299951	3.0725769	21	11 25.1	20.2
221380 2005 XV_{84}	14.4	*X*	200.11444	227.53248	301.05085	14.99526	0.0685929	0.17152940	3.2080688	21	10 7.1	19.5
221381 2005 XD_{88}	15.1	*X*	160.00573	312.15184	269.79692	4.28875	0.1203876	0.17491123	3.1665833	21	11 4.7	20.1
221382 2005 YE_{2}	16.6	*X*	220.48515	29.39109	308.62107	3.97598	0.0805636	0.21390566	2.7689888	21	3 10.8	20.8
221383 2005 YP_{10}	17.1	*X*	160.72016	292.76663	119.87733	1.70107	0.0650829	0.21411600	2.7671751	21	4 9.8	21.0
221384 2005 YA_{16}	16.4	*X*	17.12589	204.13115	272.36187	1.33998	0.0372377	0.19367244	2.9586312	21	—	—
221385 2005 YS_{17}	16.5	*X*	178.93293	190.93750	140.70406	2.84788	0.1058529	0.20615247	2.8379867	21	1 23.1	20.9
221386 2005 YE_{23}	15.4	*X*	224.34814	72.72419	107.18923	6.04340	0.1218794	0.17752185	3.1354617	21	11 20.2	20.2
221387 2005 YO_{27}	15.1	*X*	49.03860	270.92341	102.54693	12.30500	0.0377682	0.18273763	3.0755118	21	12 31.4	19.5
221388 2005 YB_{34}	16.6	*X*	264.16723	154.13678	219.83706	0.28132	0.1826865	0.22395205	2.6855466	21	6 2.5	20.6
221389 2005 YF_{34}	15.4	*X*	309.85236	226.02235	293.93671	6.20985	0.0678553	0.18906885	3.0064643	21	—	—
221390 2005 YS_{34}	16.2	*X*	353.41031	299.63238	170.05789	2.65924	0.1184538	0.18900537	3.0071375	21	—	—
221391 2005 YX_{35}	15.7	*X*	155.70862	99.00529	138.37666	1.92426	0.1198021	0.17536828	3.1610790	21	11 20.2	20.8
221392 2005 YF_{39}	15.6	*X*	161.69568	118.31395	320.68604	11.70670	0.1768248	0.21545116	2.7557310	21	5 16.4	20.3
221393 2005 YZ_{42}	15.2	*X*	58.79172	225.50505	116.24476	17.38358	0.0895747	0.17945375	3.1129181	21	12 13.8	19.8
221394 2005 YS_{51}	16.8	*X*	75.51895	266.34752	189.77785	1.74309	0.0289007	0.20277820	2.8693831	21	2 13.9	20.7
221395 2005 YK_{55}	16.6	*X*	44.20611	131.09459	279.31082	1.78784	0.0862444	0.18912144	3.0059070	21	—	—
221396 2005 YJ_{56}	15.4	*X*	276.25865	16.96980	141.47374	3.30811	0.1253976	0.18274490	3.0754301	21	12 25.9	19.3
221397 2005 YQ_{56}	17.0	*X*	84.74518	251.38135	298.49503	0.99549	0.0169592	0.22568710	2.6717648	21	6 26.3	20.3
221398 2005 YL_{58}	15.7	*X*	151.32150	116.80465	172.88098	1.99658	0.0749526	0.18454537	3.0553944	21	—	—
221399 2005 YN_{63}	15.9	*X*	114.74312	221.96118	81.53052	3.49023	0.2063768	0.18452064	3.0556674	21	—	—
221400 2005 YX_{67}	15.7	*X*	91.47529	263.78721	82.75112	5.30693	0.0754560	0.18665250	3.0323559	21	—	—
221401 2005 YO_{68}	15.9	*X*	206.29279	202.80085	16.01604	1.64305	0.1041255	0.18160594	3.0882753	21	12 17.9	20.6
221402 2005 YW_{71}	15.2	*X*	174.82963	212.56381	342.03031	4.76998	0.0797788	0.17381725	3.1798561	21	10 17.8	20.1
221403 2005 YV_{79}	16.5	*X*	333.88498	150.90199	348.26015	1.38061	0.0914283	0.19074572	2.9888183	21	—	—
221404 2005 YE_{82}	15.7	*X*	96.32193	108.91298	208.50637	1.27359	0.0387796	0.18090977	3.0961930	21	12 19.5	20.2
221405 2005 YW_{91}	15.3	*X*	102.65851	209.36782	111.85649	12.56014	0.2160618	0.18472477	3.0534159	21	—	—
221406 2005 YK_{97}	16.3	*X*	138.70363	347.87011	28.44855	2.33568	0.0809227	0.20141249	2.8823394	21	2 2.4	20.5
221407 2005 YK_{106}	15.7	*X*	183.15879	119.04098	196.24637	1.50981	0.0772144	0.19768849	2.9184245	21	1 7.7	20.0
221408 2005 YZ_{120}	14.9	*X*	209.62151	279.02251	304.57549	8.54686	0.0473379	0.18252553	3.0778939	21	—	—
221409 2005 YF_{122}	16.0	*X*	321.51511	108.96972	1.47412	2.58025	0.1381416	0.18418313	3.0593992	21	—	—
221410 2005 YL_{122}	15.2	*X*	84.40687	288.45985	76.87883	10.78740	0.0841204	0.19127477	2.9833045	21	—	—
221411 2005 YB_{124}	15.5	*X*	300.53436	149.20312	335.13785	4.04539	0.1584123	0.18266304	3.0763490	21	12 16.1	19.1
221412 2005 YG_{124}	15.9	*X*	134.19033	24.97728	72.11933	5.81056	0.0739447	0.21378236	2.7700534	21	5 7.1	19.8
221413 2005 YZ_{130}	15.4	*X*	64.24998	47.15509	307.27346	9.51803	0.1192170	0.18101170	3.0950306	21	—	—
221414 2005 YN_{134}	14.9	*X*	219.18607	194.90853	323.29333	9.13811	0.0809426	0.17433472	3.1735606	21	10 18.2	19.8
221415 2005 YA_{138}	15.3	*X*	121.61008	229.29139	84.74724	5.65003	0.0956167	0.18590821	3.0404440	21	—	—
221416 2005 YJ_{143}	15.8	*X*	71.06229	350.99889	98.25367	3.35898	0.0686405	0.19808570	2.9145218	21	2 5.8	19.4
221417 2005 YA_{144}	15.4	*X*	105.22352	241.43310	65.78091	2.02841	0.1013378	0.17817439	3.1278016	21	12 22.1	20.0
221418 2005 YJ_{164}	16.5	*X*	312.30434	214.59043	304.84195	0.70518	0.0814652	0.19324215	2.9630216	21	—	—
221419 2005 YC_{172}	14.9	*X*	265.02083	165.63259	349.02047	16.89448	0.1399179	0.17988848	3.1079008	21	11 29.5	19.5
221420 2005 YE_{172}	14.8	*X*	277.51216	123.98103	330.27850	26.35769	0.1121078	0.17377826	3.1803317	21	9 25.7	19.5
221421 2005 YS_{173}	14.7	*X*	346.50293	156.94182	296.18503	15.60650	0.0830952	0.18310504	3.0713963	21	—	—
221422 2005 YT_{173}	15.1	*X*	31.63282	167.42312	285.95755	10.93494	0.0762909	0.19078468	2.9884114	21	—	—
221423 2005 YF_{177}	15.7	*X*	111.09079	231.58305	105.85754	2.64531	0.0822815	0.18787440	3.0191937	21	—	—
221424 2005 YV_{195}	16.9	*X*	204.03612	159.99193	257.71461	0.82158	0.2069985	0.22118084	2.7079318	21	5 29.9	21.4
221425 2005 YA_{196}	16.2	*X*	169.54515	38.94328	8.60538	8.35694	0.1359380	0.21652622	2.7466019	21	4 14.7	20.6
221426 2005 YZ_{207}	16.3	*X*	130.18637	81.05603	318.67214	1.17951	0.0764967	0.20098827	2.8863938	21	2 19.7	20.3
221427 2005 YD_{216}	16.4	*X*	129.36723	338.99360	342.09643	3.33273	0.0518706	0.18916008	3.0054976	21	—	—
221428 2005 YD_{221}	14.4	*X*	291.99379	201.77910	276.35125	26.26382	0.1088264	0.17611543	3.1521324	21	11 29.7	18.8
221429 2005 YD_{223}	16.0	*X*	116.58212	330.44942	62.25799	2.89159	0.0769151	0.20113013	2.8850364	21	1 26.8	19.9
221430 2005 YF_{230}	16.2	*X*	88.84189	71.13825	345.51650	1.34909	0.0604531	0.20219584	2.8748901	21	1 17.8	19.8
221431 2005 YZ_{234}	16.0	*X*	105.15619	269.38269	71.77360	2.49683	0.0952339	0.18825879	3.0150826	21	—	—
221432 2005 YV_{237}	16.1	*X*	193.64589	326.31334	238.82840	3.38475	0.1180911	0.17468023	3.1693744	21	11 17.5	21.0
221433 2005 YY_{271}	16.6	*X*	199.15258	111.39436	204.02981	3.06446	0.0293014	0.19788076	2.9165337	21	1 22.4	20.8
221434 2005 YL_{273}	15.4	*X*	157.72362	348.69451	245.98828	3.90057	0.1069360	0.17309823	3.1886558	21	11 18.0	20.4
221435 2006 AL_{6}	15.7	*X*	296.00099	184.45114	339.96946	5.01025	0.1821625	0.18510073	3.0492799	21	—	—
221436 2006 AH_{7}	14.9	*X*	28.38697	11.90226	356.20932	9.54513	0.0695725	0.17665116	3.1457561	21	11 30.1	19.3
221437 2006 AQ_{15}	15.6	*X*	216.28065	354.95448	159.23438	1.11614	0.1140231	0.17097967	3.2149414	21	10 11.4	20.6
221438 2006 AK_{18}	16.2	*X*	28.45745	237.02774	200.94582	0.85258	0.1608496	0.18945507	3.0023770	21	—	—
221439 2006 AC_{21}	15.7	*X*	44.51207	60.84567	8.59210	10.95997	0.1799889	0.19191557	2.9766601	21	—	—
221440 2006 AE_{21}	15.5	*X*	193.07014	343.10259	72.30213	10.57856	0.1593585	0.21590960	2.7518288	21	5 19.5	19.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
221441 2006 AC_{22}	14.7	X	77.32882	256.65860	84.88581	17.59241	0.1205146	0.17901121	3.1180463	21	—	—
221442 2006 AH_{34}	16.5	X	153.17725	319.70455	15.45120	2.32640	0.0911982	0.19358721	2.9594995	21	1 2.2	20.9
221443 2006 AJ_{38}	15.0	X	184.83815	142.13692	75.71005	9.29379	0.0900238	0.17774636	3.1328210	21	11 26.5	19.8
221444 2006 AT_{38}	16.7	X	65.21059	239.55011	164.60491	0.09833	0.0951879	0.19115987	2.9844999	21	—	—
221445 2006 AM_{63}	16.2	X	86.92480	156.64653	239.42234	0.90619	0.0964666	0.19442028	2.9510394	21	—	—
221446 2006 AJ_{72}	16.1	X	12.80244	203.86006	268.38521	2.45459	0.1708470	0.19251135	2.9705155	21	—	—
221447 2006 AJ_{75}	15.1	X	224.55592	17.23397	144.01035	9.59792	0.1232222	0.17222804	3.1993872	21	10 30.5	20.1
221448 2006 AP_{81}	14.5	X	299.31150	131.94656	16.72405	18.86876	0.1061911	0.17947389	3.1126852	21	—	—
221449 2006 AB_{87}	15.1	X	298.62513	288.53299	169.31478	10.15071	0.0641867	0.17636752	3.1491280	21	11 20.4	19.4
221450 2006 AG_{100}	15.6	X	214.57788	36.82978	153.47954	5.48372	0.0826160	0.17448024	3.1717958	21	11 25.6	20.3
221451 2006 BC_{1}	16.0	X	284.55782	52.24295	9.60950	12.17972	0.2919955	0.23850019	2.5751957	21	8 20.9	19.3
221452 2006 BN_{1}	15.6	X	81.38873	291.01153	114.56787	2.99536	0.0621595	0.19188445	2.9769819	21	—	—
221453 2006 BP_{2}	14.6	X	270.86344	200.87430	281.75062	14.93097	0.0305885	0.17460075	3.1703362	21	11 13.6	19.2
221454 2006 BW_{8}	15.3	X	146.93218	348.25173	247.19593	8.35966	0.0264335	0.17662343	3.1460854	21	11 6.7	19.9
221455 2006 BC_{10}	19.4	X	89.18231	234.03384	21.23803	0.92772	0.6581979	0.34473868	2.0143860	21	11 25.9	23.9
221456 2006 BA_{13}	15.7	X	289.89735	317.71480	161.72667	1.73321	0.1548466	0.17765057	3.1339470	21	11 22.7	19.4
221457 2006 BD_{46}	15.7	X	31.27950	47.24216	337.27796	0.76535	0.1333015	0.17701695	3.1414210	21	—	—
221458 2006 BD_{57}	15.2	X	259.83793	356.41050	140.27709	10.36478	0.0419056	0.17470992	3.1690153	21	11 20.9	19.8
221459 2006 BD_{66}	15.9	X	158.22974	19.04349	83.96558	2.99505	0.0273152	0.21460916	2.7629343	21	6 7.7	19.6
221460 2006 BN_{66}	15.2	X	148.93905	280.14226	327.72290	6.68276	0.0939851	0.17326090	3.1866596	21	11 23.4	20.2
221461 2006 BG_{78}	15.9	X	53.75777	201.66578	120.21658	2.13035	0.1864621	0.17211481	3.2007903	21	11 24.4	20.3
221462 2006 BZ_{82}	15.8	X	68.76344	301.37960	161.59414	2.46037	0.0412487	0.19970689	2.8987272	21	2 15.7	19.5
221463 2006 BL_{86}	16.0	X	14.41839	61.50348	336.37355	7.32266	0.1638227	0.18033127	3.1028112	21	—	—
221464 2006 BP_{87}	15.6	X	47.12549	261.75625	120.34066	6.50707	0.1756579	0.18269264	3.0760167	21	—	—
221465 Rapa Nui	15.1	X	18.03757	60.67831	330.47052	16.59574	0.1674328	0.17680881	3.1438860	21	12 31.6	19.3
221466 2006 BG_{118}	16.1	X	319.38907	290.44563	157.56173	11.54662	0.2374831	0.17878109	3.1207214	21	11 28.5	19.4
221467 2006 BX_{124}	15.7	X	243.71323	58.83212	124.71945	2.92900	0.0722873	0.17595782	3.1540144	21	12 20.7	20.2
221468 2006 BJ_{135}	16.2	X	296.27186	114.55548	40.58644	1.08833	0.1210852	0.18333724	3.0688024	21	—	—
221469 2006 BW_{141}	15.0	X	6.84778	135.10669	155.50237	15.00433	0.0308483	0.15402929	3.4466764	21	7 22.8	19.9
221470 2006 BS_{143}	15.6	X	45.75043	255.56255	140.58350	13.77401	0.1413111	0.18701064	3.0284832	21	—	—
221471 2006 BH_{147}	15.5	X	265.73644	333.04199	156.47988	12.91871	0.1272922	0.17440800	3.1726715	21	11 8.4	20.1
221472 2006 BX_{148}	15.1	X	35.95995	286.64469	116.03269	13.78909	0.0507553	0.18335244	3.0686328	21	—	—
221473 2006 BY_{152}	14.9	X	2.80876	267.80501	132.12174	21.97542	0.1214317	0.17637477	3.1490417	21	12 14.9	19.2
221474 2006 BP_{157}	15.4	X	313.97060	38.30873	107.03214	1.70800	0.1272636	0.18207455	3.0829742	21	—	—
221475 2006 BK_{183}	15.4	X	102.53255	240.32559	144.16976	11.81711	0.0570711	0.19195326	2.9762705	21	—	—
221476 2006 BO_{191}	16.2	X	228.63418	185.26413	31.18035	1.88636	0.0785348	0.18488096	3.0516959	21	—	—
221477 2006 BD_{220}	15.1	X	110.08149	359.41546	337.81743	4.18522	0.1488453	0.18445397	3.0564037	21	—	—
221478 2006 BC_{234}	16.3	X	28.38732	44.57976	10.56566	1.97914	0.0742511	0.18480636	3.0525171	21	—	—
221479 2006 BW_{247}	16.0	X	347.09572	275.05990	121.79460	2.33051	0.1525006	0.17274098	3.1930506	21	11 13.4	19.5
221480 2006 BN_{250}	16.1	X	328.10465	80.22792	26.38550	1.04838	0.1457227	0.18127729	3.0920069	21	—	—
221481 2006 BN_{252}	16.4	X	65.00418	248.14430	152.72205	2.67776	0.0542367	0.18848141	3.0127079	21	—	—
221482 2006 BT_{253}	15.8	X	309.76068	117.89255	328.25544	0.86182	0.0699655	0.17399654	3.1776713	21	11 17.9	20.0
221483 2006 BD_{264}	15.7	X	336.62431	310.64117	87.00429	2.83810	0.1581010	0.16900495	3.2399360	21	10 26.1	19.3
221484 2006 BB_{265}	15.6	X	355.55487	10.50985	16.51330	2.71756	0.1748509	0.17035699	3.2227707	21	11 15.1	19.1
221485 2006 BX_{268}	14.9	X	67.79764	62.05013	347.33381	8.71229	0.1208326	0.19005550	2.9960502	21	—	—
221486 2006 BB_{271}	15.3	X	3.99882	249.84227	143.05371	10.74349	0.1163420	0.17719020	3.1393729	21	12 5.8	19.4
221487 2006 BT_{279}	15.8	X	161.62629	214.37803	180.97121	1.86875	0.0737484	0.20365016	2.8611868	21	3 21.2	20.0
221488 2006 CB	15.5	X	316.87756	132.65463	334.17331	7.91669	0.1933391	0.18061159	3.0995998	21	12 19.7	19.0
221489 2006 CP_{9}	16.4	X	320.02659	309.59268	154.48469	2.05185	0.1297482	0.17969850	3.1100909	21	12 24.2	20.0
221490 2006 CO_{13}	15.9	X	300.56552	75.20597	3.21625	0.11202	0.0163769	0.17111648	3.2132277	21	10 31.6	20.4
221491 2006 CX_{21}	15.5	X	306.37720	139.97903	350.84282	16.80841	0.1901467	0.18035825	3.1025018	21	—	—
221492 2006 CQ_{22}	15.8	X	109.08695	45.82012	36.05881	2.18530	0.0591805	0.19825298	2.9128821	21	3 17.3	19.7
221493 2006 CC_{41}	15.1	X	253.56833	275.13584	222.18327	4.13152	0.1223229	0.17088381	3.2161437	21	10 30.4	19.7
221494 2006 CJ_{48}	15.8	X	199.75418	46.71682	166.55163	2.58620	0.0929135	0.17425685	3.1745059	21	12 5.1	20.6
221495 2006 CK_{56}	15.9	X	285.19075	317.34744	168.52764	0.68590	0.1327662	0.17670561	3.1451099	21	11 26.2	19.9
221496 2006 CV_{61}	15.1	X	324.82217	98.74499	350.38302	16.75734	0.1378460	0.17753415	3.1353169	21	12 10.3	19.2
221497 2006 DW_{3}	15.4	X	295.01469	170.11436	324.96348	2.35086	0.1184870	0.17770042	3.1333609	21	12 23.9	19.2
221498 2006 DH_{4}	15.4	X	48.41627	256.74705	161.41566	9.47987	0.1434232	0.18486837	3.0518345	21	—	—
221499 2006 DL_{21}	15.3	X	342.75139	59.91297	10.89020	13.50163	0.1032473	0.17794862	3.1304466	21	12 16.8	19.4
221500 2006 DU_{23}	15.8	X	278.69990	85.57350	42.60899	1.77281	0.1413193	0.17408712	3.1765689	21	11 17.9	20.0
221501 2006 DV_{42}	15.6	X	359.27015	228.43271	153.04792	7.64661	0.1504842	0.17055801	3.2202380	21	11 15.7	19.5
221502 2006 DS_{49}	14.6	X	3.79887	54.26603	7.61036	10.11138	0.0728768	0.17759015	3.1346578	21	—	—
221503 2006 DE_{60}	16.2	X	87.50928	184.12728	236.20379	0.63101	0.2187767	0.19053400	2.9910320	21	2 13.9	20.1
221504 2006 DE_{64}	14.6	X	78.90117	344.09546	28.14581	11.97460	0.1495103	0.18366029	3.0652028	21	—	—
221505 2006 DR_{66}	15.0	X	273.84017	325.26583	189.30647	11.28091	0.1509934	0.17695891	3.1421078	21	12 13.4	19.3
221506 2006 DX_{66}	15.1	X	313.34141	157.82551	321.23837	16.09393	0.1545141	0.17822673	3.1271891	21	—	—
221507 2006 DE_{102}	14.5	X	198.27587	275.80688	46.96984	3.13657	0.1281680	0.12613757	3.9376739	21	2 12.9	20.7
221508 2006 DB_{134}	15.7	X	28.92755	312.14459	83.54961	3.54103	0.0770527	0.17683644	3.1435584	21	—	—
221509 2006 DE_{207}	15.9	X	245.77856	61.94595	353.13498	5.98994	0.0601220	0.21497789	2.7597740	21	7 22.4	19.8
221510 2006 EV_{8}	16.4	X	0.99446	62.22937	6.00345	6.08858	0.2027014	0.17908307	3.1172121	21	—	—
221511 2006 EG_{14}	15.9	X	6.92475	253.49559	176.71031	3.77751	0.1766977	0.17927500	3.1149869	21	—	—
221512 2006 EY_{36}	16.0	X	4.57022	47.19167	43.98603	1.63178	0.2416314	0.18463346	3.0544225	21	—	—
221513 2006 GY_{49}	14.5	X	217.59664	356.84594	276.12034	14.08874	0.2394115	0.17677238	3.1443179	21	—	—
221514 2006 HO_{4}	15.4	X	282.46422	288.91647	204.88872	4.64201	0.1439166	0.17281491	3.1921399	21	11 30.2	19.6
221515 2006 HX_{150}	16.1	X	200.08546	320.54580	48.40730	2.65280	0.2049317	0.19183760	2.9774666	21	3 31.7	21.1
221516 Bergen–Enkheim	17.2	X	78.07878	208.53840	259.16550	17.91659	0.1149406	0.36965738	1.9228104	21	1 26.8	18.8
221517 2006 RB_{46}	17.5	X	352.40982	339.47083	166.78261	5.32831	0.0903033	0.28891357	2.2661610	21	—	—
221518 2006 RT_{53}	18.1	X	294.32702	233.27869	121.66400	1.37681	0.0838439	0.31836153	2.1241686	21	6 30.5	20.1
221519 2006 RO_{90}	18.0	X	211.30308	218.94566	185.94700	5.11227	0.0863684	0.31129468	2.1561960	21	5 21.6	20.8
221520 2006 SS_{24}	17.2	X	229.71127	335.88296	319.40816	6.48786	0.1447197	0.29857117	2.2170261	21	1 15.2	20.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
221521 2006 SB_{140}	17.8	X	223.94272	101.03705	244.95405	5.90917	0.1777045	0.30539987	2.1838534	21	3 10.2	21.3
221522 2006 SK_{154}	17.0	X	254.91364	13.85133	23.74739	4.56163	0.1406980	0.31517098	2.1384802	21	6 27.6	19.6
221523 2006 SA_{161}	17.5	X	326.96975	192.29490	87.97164	2.42910	0.1705481	0.31305972	2.1480840	21	4 14.1	19.5
221524 2006 SJ_{224}	17.3	X	201.06493	209.18184	197.75467	5.75855	0.1338736	0.30740585	2.1743425	21	5 11.8	20.4
221525 2006 SO_{312}	17.7	X	281.12318	243.20100	25.84328	4.37381	0.1346089	0.29847185	2.2175179	21	2 3.6	20.8
221526 2006 SN_{362}	17.3	X	272.23718	20.44308	179.45062	3.25539	0.1532202	0.28023463	2.3127118	21	—	—
221527 2006 SD_{411}	15.6	X	278.89591	216.83179	99.14473	22.78841	0.0360065	0.22631603	2.6668126	21	5 6.1	19.7
221528 2006 TG_{10}	17.9	X	290.81954	225.60445	74.10782	5.41878	0.1786410	0.31081945	2.1583933	21	3 22.2	20.7
221529 2006 TS_{10}	16.8	X	124.03437	289.22162	84.64023	5.93060	0.0574870	0.28530742	2.2852164	21	—	—
221530 2006 TX_{44}	17.6	X	263.86739	225.50413	55.11272	5.98569	0.1634176	0.29760132	2.2218402	21	1 29.7	20.9
221531 2006 TR_{51}	17.1	X	132.21573	300.01908	76.71067	4.42202	0.1325256	0.28858252	2.2678937	21	1 15.6	19.9
221532 2006 TH_{60}	17.3	X	247.78678	259.18797	19.81531	6.08701	0.1632706	0.29395522	2.2401749	21	1 12.6	20.8
221533 2006 TX_{72}	17.3	X	183.57987	33.95469	3.94819	4.83948	0.1332465	0.30326208	2.1941045	21	4 9.7	20.4
221534 2006 TQ_{80}	16.8	X	293.75099	252.95141	305.31282	4.52978	0.0826213	0.28527506	2.2853893	21	—	—
221535 2006 TU_{80}	17.2	X	227.95861	321.23166	329.45646	4.23800	0.1617617	0.29425137	2.2386716	21	1 8.4	20.6
221536 2006 TS_{81}	17.8	X	284.03412	332.67061	331.38114	3.41496	0.1310176	0.30668799	2.1777342	21	3 22.5	20.6
221537 2006 TZ_{83}	17.6	X	294.69991	349.16135	316.91541	3.21939	0.1722141	0.31056548	2.1595699	21	3 31.9	20.3
221538 2006 TC_{86}	16.7	X	209.47561	352.13975	355.09410	3.59314	0.1417490	0.29984130	2.2107608	21	3 2.3	19.9
221539 2006 TP_{90}	17.4	X	250.01961	115.05191	239.23981	5.07333	0.0469510	0.30641849	2.1790109	21	4 30.1	19.9
221540 2006 TG_{128}	16.5	X	50.80269	242.19258	98.51800	3.46517	0.1968260	0.26195010	2.4191177	21	12 31.4	19.9
221541 2006 UZ_{61}	16.8	X	176.60097	46.92689	231.17938	6.56543	0.1064469	0.28314670	2.2968275	21	—	—
221542 2006 UB_{63}	12.4	X	329.05862	302.06436	140.86692	26.25561	0.0676015	0.08362086	5.1791634	21	11 29.8	19.3
221543 2006 UF_{69}	17.1	X	239.46227	253.58858	82.74765	5.12938	0.1917111	0.30491306	2.1861772	21	3 17.4	20.5
221544 2006 US_{84}	17.8	X	220.41225	27.46876	335.79897	2.80512	0.2016721	0.30503706	2.1855847	21	3 30.9	21.2
221545 2006 UF_{89}	16.9	X	225.72518	5.91145	237.41155	6.21639	0.1458767	0.28169750	2.3046982	21	—	—
221546 2006 UN_{89}	16.9	X	234.11752	243.52710	11.06915	2.69196	0.1206396	0.28466795	2.2886375	21	—	—
221547 2006 UL_{98}	17.7	X	257.95119	207.96979	125.26727	2.78413	0.1832705	0.30768380	2.1730329	21	3 29.6	20.7
221548 2006 UX_{116}	17.6	X	1.88470	4.32576	201.33404	4.78731	0.1083157	0.30126573	2.2037867	21	2 28.9	19.6
221549 2006 US_{126}	17.7	X	248.60782	293.52228	349.18846	3.36211	0.1340927	0.29628670	2.2284075	21	1 18.0	20.9
221550 2006 UJ_{134}	17.0	X	156.05200	0.93430	60.55960	5.40919	0.0984221	0.30091840	2.2054822	21	4 11.5	19.8
221551 2006 UW_{137}	16.3	X	186.31432	135.17530	243.76085	6.91960	0.1290653	0.30005447	2.2097136	21	3 15.8	19.7
221552 2006 UZ_{151}	17.3	X	226.32885	209.74961	155.04592	3.32394	0.1479512	0.30471374	2.1871305	21	4 11.1	20.4
221553 2006 UP_{171}	17.3	X	146.90940	352.95438	91.71282	4.85160	0.0856260	0.30312947	2.1947444	21	5 1.0	20.0
221554 2006 UO_{174}	17.3	X	234.98099	350.80641	335.31787	3.51043	0.1946895	0.30169368	2.2017022	21	2 25.8	20.5
221555 2006 UZ_{175}	17.3	X	319.45846	205.01231	78.72669	3.96675	0.1446998	0.31244510	2.1509001	21	4 12.2	19.4
221556 2006 UG_{180}	16.9	X	113.59661	259.29167	173.68972	6.20564	0.0685970	0.29436157	2.2381128	21	2 23.7	19.5
221557 2006 UY_{181}	17.7	X	272.77134	181.02750	147.87088	5.65419	0.2228109	0.31017836	2.1613663	21	4 4.6	20.9
221558 2006 UV_{198}	17.6	X	147.03286	78.64043	12.57076	3.64770	0.0879178	0.30223969	2.1990497	21	5 7.9	20.3
221559 2006 UD_{237}	17.5	X	351.12550	23.98106	132.73986	1.93662	0.1782919	0.28647919	2.2789808	21	—	—
221560 2006 UF_{267}	16.9	X	65.05206	172.46424	18.58438	5.05143	0.0751378	0.30725330	2.1750622	21	6 4.2	19.2
221561 2006 UL_{275}	17.5	X	302.53687	359.20582	236.69555	3.71085	0.1754245	0.29815938	2.2190669	21	1 8.1	20.5
221562 2006 UF_{281}	17.5	X	145.30980	229.91991	197.59814	2.20438	0.1107102	0.29907188	2.2145509	21	4 6.2	20.1
221563 2006 UC_{287}	17.3	X	227.72594	178.53475	188.99152	2.94007	0.1429295	0.30552783	2.1832436	21	4 15.5	20.5
221564 2006 UU_{287}	17.7	X	269.75149	55.59118	197.84754	4.24427	0.0902347	0.29314933	2.2442786	21	1 4.3	20.9
221565 2006 UK_{288}	16.7	X	195.16180	9.51236	318.21910	6.45424	0.1513409	0.29291750	2.2454627	21	1 23.9	20.1
221566 2006 UZ_{325}	16.6	X	346.19948	285.67776	108.20169	2.22336	0.1812337	0.25541706	2.4601945	21	12 1.5	18.8
221567 2006 UW_{335}	16.8	X	174.48015	34.12663	278.38825	7.20820	0.1476659	0.28731003	2.2745851	21	—	—
221568 2006 VQ_{8}	17.1	X	261.84956	185.07475	113.66004	1.89987	0.0984611	0.29746001	2.2225438	21	2 23.7	20.1
221569 2006 VD_{20}	17.6	X	292.02284	287.70176	250.27747	2.93097	0.0811507	0.27837790	2.3229840	21	—	—
221570 2006 VG_{28}	17.0	X	204.95658	238.21847	37.97459	7.06878	0.1235933	0.28199703	2.3030659	21	—	—
221571 2006 VZ_{42}	17.1	X	118.83023	326.35241	300.14210	2.96072	0.1233751	0.26588229	2.3952073	21	12 1.6	20.8
221572 2006 VR_{50}	17.0	X	168.93043	321.26512	51.73013	8.15313	0.2553526	0.29498847	2.2349408	21	3 7.9	20.7
221573 2006 VN_{58}	17.6	X	194.67605	220.05284	109.59254	2.55126	0.1752228	0.29276523	2.2462412	21	1 26.8	20.8
221574 2006 VX_{61}	18.0	X	166.71106	64.38544	310.51125	0.76471	0.1734558	0.29449265	2.2374487	21	2 25.6	21.0
221575 2006 VX_{64}	17.5	X	251.37815	229.37480	69.61773	5.30269	0.1683456	0.29648961	2.2273907	21	2 10.1	20.9
221576 2006 VA_{73}	17.2	X	109.48449	88.40139	327.45922	4.53122	0.1468775	0.29028570	2.2590142	21	2 8.3	19.5
221577 2006 VP_{73}	17.0	X	196.10670	156.74196	70.47661	3.60291	0.1322250	0.26829517	2.3808250	21	12 30.5	20.4
221578 2006 VQ_{84}	17.5	X	179.27174	139.64235	264.61217	3.50013	0.1463479	0.30134495	2.2034004	21	4 13.8	20.8
221579 2006 VC_{92}	17.0	X	55.95086	155.00929	271.01155	5.68105	0.0877940	0.28150060	2.3057728	21	—	—
221580 2006 VX_{95}	17.7	X	195.50972	323.79978	44.08391	7.62699	0.2552977	0.29958956	2.2119990	21	3 21.3	21.5
221581 2006 VR_{102}	16.7	X	193.73092	263.82465	77.07776	7.38853	0.1554441	0.29382907	2.2408161	21	2 10.3	20.1
221582 2006 VL_{104}	17.5	X	234.37779	34.42501	217.92593	5.73459	0.0746097	0.28686384	2.2769431	21	—	—
221583 2006 VN_{112}	17.4	X	157.82266	51.00472	11.77554	8.23999	0.1609199	0.29975838	2.2111684	21	4 17.6	20.5
221584 2006 VK_{130}	16.8	X	129.64421	204.23146	72.64895	3.87038	0.1706561	0.26971408	2.3724677	21	12 26.4	20.5
221585 2006 VW_{130}	17.0	X	191.01500	256.84727	87.66651	7.97403	0.1628570	0.29455033	2.2371565	21	2 12.5	20.4
221586 2006 VB_{143}	16.7	X	289.02584	268.06439	269.96860	6.15487	0.0499489	0.27689440	2.3312737	21	—	—
221587 2006 VT_{146}	17.3	X	335.96158	348.67685	177.84768	4.63823	0.1148602	0.28294270	2.2979314	21	—	—
221588 2006 VT_{148}	17.3	X	264.59508	356.53295	347.24486	5.33651	0.1745595	0.30909650	2.1664067	21	4 17.1	20.2
221589 2006 VT_{150}	17.9	X	339.51452	307.96891	16.04603	4.19095	0.1417962	0.31997985	2.1170005	21	8 2.1	19.3
221590 2006 VK_{152}	16.7	X	358.03419	268.97245	293.58517	4.69633	0.0911003	0.29564657	2.2316230	21	2 20.8	19.0
221591 2006 VD_{155}	17.7	X	200.97559	120.66863	222.90427	3.33264	0.1913890	0.29640541	2.2278125	21	2 17.4	21.2
221592 2006 VJ_{168}	16.8	X	217.83325	328.42459	50.92981	5.34810	0.2094062	0.30139631	2.2031502	21	4 20.4	20.3
221593 2006 WG_{17}	17.1	X	158.80293	25.78597	1.90174	2.33215	0.0403311	0.29590750	2.2303109	21	2 19.6	19.7
221594 2006 WN_{30}	16.8	X	190.42396	204.93408	199.24521	7.20678	0.1871747	0.30160096	2.2021534	21	4 28.2	20.1
221595 2006 WE_{34}	16.7	X	153.03061	55.84060	203.21318	5.52072	0.1294837	0.26914820	2.3757919	21	12 26.2	20.3
221596 2006 WD_{36}	16.4	X	48.27133	45.49256	149.62918	5.30619	0.1720395	0.23363011	2.6108595	21	6 2.2	19.2
221597 2006 WP_{51}	17.3	X	264.89284	165.89179	58.28429	4.67721	0.1188511	0.28001297	2.3139321	21	—	—
221598 2006 WB_{89}	16.8	X	109.88560	229.35767	330.07360	3.26338	0.1225044	0.24228263	2.5483234	21	8 26.0	20.3
221599 2006 WK_{96}	17.4	X	187.38223	234.94355	55.12206	3.58929	0.1582242	0.28278587	2.2987809	21	—	—
221600 2006 WF_{101}	17.6	X	138.88486	230.22703	148.14053	4.50447	0.1802912	0.28994917	2.2607618	21	2 1.1	20.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
221601 2006 WG_{108}	16.7	X	110.83527	345.22008	43.30869	4.16433	0.2199988	0.28456268	2.2892019	21	1 17.0	19.0
221602 2006 WE_{113}	16.7	X	106.00101	320.18416	287.73533	6.89960	0.0795872	0.25266591	2.4780208	21	10 17.4	20.3
221603 2006 WS_{118}	17.7	X	106.92203	287.07341	135.74903	2.75104	0.0195725	0.28692568	2.2766159	21	1 25.7	20.5
221604 2006 WP_{123}	16.9	X	317.47884	173.64849	245.94472	2.49952	0.1602756	0.25389838	2.4699952	21	11 6.7	19.0
221605 2006 WJ_{149}	16.5	X	132.02272	53.34569	255.13990	4.95137	0.1001547	0.27282206	2.3544152	21	—	—
221606 2006 WA_{160}	16.9	X	199.79714	107.54427	13.90610	1.92903	0.0829186	0.24122106	2.5557943	21	8 21.9	20.6
221607 2006 WJ_{169}	17.0	X	193.31219	317.12155	274.57437	0.60157	0.1413857	0.26844682	2.3799283	21	—	—
221608 2006 WT_{185}	17.0	X	66.92953	319.79990	173.01013	5.22740	0.0537373	0.29784913	2.2206076	21	3 8.3	19.1
221609 2006 WH_{198}	17.2	X	296.59376	219.94116	168.72503	0.60726	0.1482888	0.24606636	2.5221324	21	8 12.1	20.1
221610 2006 WB_{201}	17.2	X	91.31345	299.92161	26.86515	3.20105	0.1968647	0.26684689	2.3894317	21	—	—
221611 2006 XB_{8}	16.6	X	93.95334	293.24929	102.23437	8.03967	0.1121388	0.28190851	2.3035480	21	—	—
221612 2006 XZ_{8}	17.0	X	79.74760	356.13985	69.62091	3.75181	0.1339343	0.28251223	2.3002650	21	1 2.7	19.0
221613 2006 XQ_{34}	16.5	X	74.61571	71.92954	289.98230	7.63708	0.1623192	0.27154263	2.3618050	21	—	—
221614 2006 XQ_{37}	17.3	X	56.82069	337.50701	104.82145	4.39273	0.1307051	0.27936504	2.3175086	21	—	—
221615 2006 XJ_{38}	16.7	X	123.43869	240.62915	99.62727	11.17440	0.2659252	0.27586582	2.3370650	21	—	—
221616 2006 XX_{38}	16.6	X	44.91516	245.61188	100.63009	5.24728	0.2588866	0.26231757	2.4168580	21	—	—
221617 2006 XO_{43}	15.5	X	303.14339	297.98136	288.20025	10.61190	0.1038792	0.21175236	2.7877289	21	1 22.1	19.4
221618 2006 XT_{46}	16.3	X	58.86005	283.19169	94.99910	12.22286	0.2259987	0.27376776	2.3489901	21	—	—
221619 2006 XH_{48}	17.3	X	106.84524	46.62733	3.66760	3.29430	0.1525814	0.28472403	2.2883369	21	1 30.3	19.7
221620 2006 XZ_{51}	16.5	X	135.72198	258.41514	84.51760	9.54617	0.1613880	0.28155523	2.3054745	21	—	—
221621 2006 XL_{54}	15.5	X	118.70899	18.98277	265.49825	24.09206	0.1913305	0.26611756	2.3937954	21	12 25.0	19.4
221622 2006 XM_{60}	15.7	X	248.22043	325.97151	310.61796	7.42736	0.1112713	0.21369926	2.7707714	21	1 24.3	20.0
221623 2006 XH_{61}	16.6	X	59.83698	243.84017	92.58056	8.25684	0.0853428	0.26137574	2.4226604	21	12 21.8	19.9
221624 2006 XK_{66}	16.8	X	105.59617	281.34210	131.96541	5.97569	0.2024474	0.28550987	2.2841360	21	2 9.1	19.1
221625 2006 XW_{70}	17.3	X	60.26456	218.72646	138.88683	2.88042	0.2223562	0.26651995	2.3913854	21	—	—
221626 2006 YS_{1}	17.0	X	257.04112	76.00206	104.83378	3.51422	0.1766940	0.26237344	2.4165149	21	—	—
221627 2006 YX_{6}	17.2	X	359.91436	301.28074	172.18163	2.27429	0.1600737	0.27620738	2.3351379	21	—	—
221628 Hyatt	14.4	X	210.38331	176.29685	357.74517	32.50139	0.2506836	0.17807520	3.1289630	21	10 7.9	20.0
221629 2006 YP_{17}	17.3	X	48.68937	304.51937	150.72333	2.15406	0.1583184	0.27636358	2.3342579	21	—	—
221630 2006 YA_{35}	16.7	X	26.43265	46.75935	323.71957	5.89000	0.1446312	0.26054479	2.4278086	21	—	—
221631 2006 YV_{47}	17.3	X	13.43604	259.10984	189.10497	2.14602	0.1699554	0.27203676	2.3589441	21	—	—
221632 2006 YX_{51}	17.2	X	80.12240	153.37918	194.38564	1.79837	0.2197335	0.26795188	2.3828581	21	—	—
221633 2007 AJ_{3}	17.0	X	105.85608	325.11080	81.36914	6.47824	0.1468187	0.28337283	2.2956054	21	1 22.8	19.4
221634 2007 AV_{8}	16.7	X	5.36652	189.13378	259.27398	3.39051	0.1024783	0.26719924	2.3873306	21	—	—
221635 2007 AO_{22}	16.9	X	104.91134	4.34623	54.08125	6.26194	0.1471079	0.28251887	2.3002290	21	2 9.3	19.4
221636 2007 AJ_{25}	16.6	X	230.58366	322.92780	191.02564	2.11673	0.0442393	0.25357239	2.4721116	21	11 16.4	19.7
221637 2007 AC_{29}	16.0	X	249.76976	153.12654	146.60979	5.51811	0.0969702	0.21531858	2.7568621	21	2 23.4	20.2
221638 2007 BO_{4}	15.7	X	36.83598	219.46552	329.08556	8.72219	0.0866018	0.21936694	2.7228388	21	4 19.2	19.1
221639 2007 BA_{13}	16.9	X	23.04591	329.94855	49.95790	1.88057	0.1890294	0.26059537	2.4274945	21	—	—
221640 2007 BT_{25}	17.4	X	71.63028	29.59061	344.63165	0.91474	0.1932260	0.26962451	2.3729931	21	—	—
221641 2007 BC_{26}	17.5	X	348.82678	280.72716	114.11029	3.45739	0.1813393	0.25764260	2.4460065	21	12 9.1	19.7
221642 2007 BH_{47}	16.1	X	318.68714	161.23721	50.65740	2.94854	0.0360539	0.20918487	2.8104932	21	2 5.0	19.8
221643 2007 BZ_{47}	16.2	X	257.57776	295.72288	63.99372	3.98524	0.0419001	0.22685929	2.6625535	21	5 24.9	19.9
221644 2007 BQ_{57}	16.3	X	17.29824	103.33372	327.32525	9.44894	0.1133985	0.26560356	2.3968827	21	—	—
221645 2007 BK_{58}	16.9	X	316.17882	101.73601	14.70651	1.34956	0.1422989	0.26160142	2.4212668	21	—	—
221646 2007 BX_{58}	17.3	X	314.32726	291.48213	185.77863	1.63948	0.1683067	0.26116883	2.4239398	21	—	—
221647 2007 BB_{60}	15.6	X	216.03161	164.23770	272.50938	13.99685	0.0794495	0.23522576	2.5990390	21	7 10.3	19.4
221648 2007 BZ_{68}	17.1	X	207.52238	178.34889	300.76821	1.88917	0.1656461	0.24071648	2.5593646	21	8 20.4	21.1
221649 2007 BJ_{74}	16.4	X	259.69620	355.22347	341.06028	6.25968	0.0333001	0.22447524	2.6813721	21	4 24.9	20.2
221650 2007 BD_{75}	16.5	X	302.08592	286.42250	172.33001	13.94153	0.1803507	0.25750589	2.4468721	21	12 5.9	19.0
221651 2007 BE_{75}	16.0	X	253.77483	320.96042	326.61062	3.56753	0.0413812	0.21235015	2.7824946	21	2 17.7	19.8
221652 2007 BM_{78}	17.7	X	27.36131	22.78711	6.44732	0.95228	0.1848856	0.26284531	2.4136218	21	—	—
221653 2007 BJ_{101}	16.8	X	150.60276	259.48955	146.42694	3.72974	0.0815491	0.21694826	2.7430387	21	3 22.3	20.7
221654 2007 CZ	16.5	X	167.67130	316.32832	143.24803	4.15704	0.0569676	0.23023912	2.6364324	21	6 16.1	20.2
221655 2007 CP_{1}	15.4	X	172.10988	109.06419	138.76961	11.19546	0.0633138	0.18842396	3.0133203	21	12 21.7	20.1
221656 2007 CH_{4}	16.8	X	25.01659	3.93451	43.49276	5.97575	0.2195918	0.26514084	2.3996706	21	—	—
221657 2007 CS_{9}	16.5	X	225.93575	258.69550	228.57870	4.74131	0.0702711	0.24735503	2.5133649	21	9 29.4	20.0
221658 2007 CR_{15}	16.3	X	222.35578	79.42738	340.30363	13.70371	0.0821921	0.23571404	2.5954485	21	6 27.6	20.3
221659 2007 CG_{16}	16.2	X	14.62282	223.30673	331.13474	5.27469	0.0456113	0.21818143	2.7326931	21	3 25.5	19.8
221660 2007 CC_{18}	15.4	X	157.89705	168.09463	98.70548	3.37106	0.1562052	0.18692178	3.0294430	21	12 26.4	20.3
221661 2007 CW_{22}	16.3	X	340.78758	74.69201	153.24318	4.05622	0.0335163	0.21817911	2.7327124	21	3 25.5	19.9
221662 2007 CC_{24}	16.0	X	1.58706	41.13106	152.28215	12.26657	0.0563601	0.21427752	2.7657843	21	3 8.4	19.4
221663 2007 CJ_{40}	16.9	X	319.00304	308.18626	138.24389	2.89167	0.1494881	0.25837600	2.4413756	21	12 22.6	18.9
221664 2007 CK_{40}	15.3	X	181.92936	290.64701	320.36286	9.73656	0.1564680	0.18918258	3.0052593	21	12 30.3	20.3
221665 2007 CE_{42}	16.3	X	71.35311	45.57849	224.11796	0.37618	0.1421018	0.17210509	3.2009108	21	10 6.6	20.8
221666 2007 CG_{42}	16.5	X	206.59565	175.35457	142.70826	2.27691	0.0740269	0.20906272	2.8115878	21	2 2.3	20.8
221667 2007 CP_{47}	17.0	X	301.39108	152.52154	335.92995	1.68840	0.1415813	0.25916364	2.4364266	21	—	—
221668 2007 CU_{51}	16.5	X	244.64837	22.68840	123.85755	5.01880	0.0708929	0.25151040	2.4856048	21	11 21.7	19.8
221669 2007 CP_{52}	15.3	X	156.28404	153.81733	331.11682	17.12251	0.1017929	0.23014036	2.6371866	21	7 12.3	19.5
221670 2007 CB_{56}	16.7	X	39.93880	259.37745	168.99670	3.36254	0.1569943	0.26918553	2.3755723	21	—	—
221671 2007 CW_{56}	15.0	X	220.85643	173.53369	355.27271	9.73844	0.1314133	0.18106125	3.0944659	21	10 29.2	19.9
221672 2007 CW_{63}	16.1	X	287.00184	112.64357	150.90554	4.56014	0.0115665	0.21331378	2.7741085	21	3 4.0	19.9
221673 2007 DP	16.6	X	213.59692	156.66158	184.01873	5.81172	0.0690856	0.21355072	2.7720562	21	3 7.8	20.6
221674 2007 DY_{1}	16.6	X	93.49223	30.00408	44.72474	8.23856	0.3246965	0.28438556	2.2901523	21	3 18.7	19.1
221675 2007 DU_{3}	16.5	X	257.74620	246.62470	166.31716	13.58546	0.1135885	0.23800022	2.5788009	21	7 24.4	20.3
221676 2007 DP_{4}	15.5	X	213.87252	85.81696	348.85215	21.93282	0.0434884	0.22921574	2.6442738	21	7 16.2	19.6
221677 2007 DG_{9}	16.4	X	301.95894	37.68300	338.47936	5.47223	0.0737863	0.23674629	2.5878987	21	8 14.5	19.4
221678 2007 DL_{10}	15.8	X	336.06428	313.81314	156.18055	9.30432	0.0515777	0.19174289	2.9784470	21	—	—
221679 2007 DH_{11}	15.8	X	239.94315	221.54173	342.77009	6.22376	0.1458236	0.18791186	3.0187924	21	—	—
221680 2007 DZ_{18}	16.0	X	122.67509	133.81890	145.18151	1.04830	0.1965186	0.17963392	3.1108362	21	12 11.4	21.3

Planet		H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
		m		°	°	°	°		°				
221681	2007 DY_{19}	15.9	X	26.27219	207.02342	341.81992	10.40903	0.0433822	0.21623107	2.7491007	21	4 2.4	19.5
221682	2007 DK_{22}	16.9	X	252.88711	220.54357	164.87017	2.81880	0.1200148	0.23046235	2.6347297	21	6 12.4	20.7
221683	2007 DB_{23}	16.6	X	209.21479	18.10122	286.09496	0.94605	0.0491510	0.20411018	2.8568862	21	1 20.1	20.7
221684	2007 DS_{25}	16.2	X	133.03804	343.31337	18.92637	2.67140	0.1642707	0.20181963	2.8784616	21	1 20.2	20.4
221685	2007 DL_{26}	16.2	X	173.53137	298.42054	352.84098	11.56142	0.0206100	0.19451573	2.9500739	21	—	—
221686	2007 DA_{35}	15.4	X	79.30897	317.49919	348.76248	6.08472	0.1152136	0.17703437	3.1412150	21	11 24.1	20.1
221687	2007 DW_{35}	17.4	X	340.05469	256.39604	165.88973	12.05947	0.2120238	0.25581397	2.4576491	21	—	—
221688	2007 DV_{36}	15.5	X	186.89630	46.18254	163.31945	9.89357	0.2002876	0.17786267	3.1314550	21	11 15.1	20.8
221689	2007 DW_{42}	16.8	X	49.34819	259.71704	211.00363	5.34116	0.0461033	0.27708181	2.3302224	21	1 11.2	19.5
221690	2007 DZ_{47}	16.2	X	218.37081	54.58963	342.19965	4.34609	0.0197970	0.22358409	2.6884923	21	5 25.5	20.0
221691	2007 DE_{50}	16.6	X	24.12419	64.47013	99.88451	2.48088	0.1349616	0.21261743	2.7801622	21	3 2.9	19.6
221692	2007 DJ_{50}	16.2	X	86.88042	304.42766	178.55985	4.78859	0.0491242	0.21688699	2.7435553	21	4 6.1	19.6
221693	2007 DM_{53}	15.6	X	147.55977	97.58993	185.44794	9.25205	0.0491571	0.18521575	3.0480174	21	—	—
221694	2007 DY_{53}	16.0	X	103.81212	273.86655	180.09580	9.63500	0.1107598	0.21266527	2.7797453	21	3 31.6	19.7
221695	2007 DV_{54}	17.1	X	108.60494	297.66679	225.59047	0.41507	0.1119657	0.23098558	2.6307494	21	7 5.6	20.6
221696	2007 DE_{59}	15.9	X	277.09161	158.22481	157.13723	7.06407	0.0453829	0.22124169	2.7074352	21	4 23.4	19.6
221697	2007 DE_{60}	14.9	X	190.56176	17.65125	167.93602	28.25696	0.1103997	0.17623602	3.1506943	21	10 27.5	20.1
221698	Juliusolsen	16.1	X	51.67716	133.37168	358.61273	4.09912	0.0133617	0.21146670	2.7902389	21	2 26.5	19.7
221699	2007 DT_{69}	16.8	X	216.09935	38.94674	111.42160	2.35471	0.1130045	0.24532097	2.5272387	21	10 15.4	20.3
221700	2007 DH_{71}	15.4	X	117.25274	123.01784	161.29964	13.00932	0.0528576	0.18089395	3.0963736	21	12 6.6	20.2
221701	2007 DZ_{75}	15.1	X	65.81000	314.63297	8.55680	10.41066	0.1082195	0.17663198	3.1459839	21	11 27.2	19.8
221702	2007 DR_{95}	16.5	X	97.00422	138.62350	1.20356	12.11882	0.1335419	0.22116633	2.7080502	21	5 20.0	20.4
221703	2007 DT_{96}	16.3	X	283.19791	138.04000	192.17016	4.63547	0.0221706	0.22229636	2.6988649	21	5 23.2	19.9
221704	2007 DH_{97}	16.7	X	84.96802	59.58426	138.60637	2.49012	0.1234012	0.22846826	2.6500382	21	7 24.5	20.3
221705	2007 DT_{100}	16.5	X	61.60005	102.31113	32.84183	4.79364	0.0069062	0.21226030	2.7832798	21	3 15.7	20.3
221706	2007 DH_{106}	15.6	X	270.74050	56.24112	113.63848	2.72018	0.0963525	0.18653968	3.0335785	21	—	—
221707	2007 DE_{111}	16.3	X	89.14628	161.02852	190.99504	3.50608	0.1392524	0.18912351	3.0058851	21	—	—
221708	2007 DB_{113}	15.9	X	207.49762	183.39225	191.74276	5.37549	0.0134768	0.21693271	2.7431698	21	4 15.3	19.7
221709	2007 DK_{115}	15.7	X	101.17046	97.13353	157.11948	4.96269	0.1312563	0.17175578	3.2052493	21	10 20.7	20.6
221710	2007 EP_{3}	16.4	X	184.78187	100.36430	323.41733	1.26751	0.0713690	0.22394237	2.6856240	21	5 19.7	20.3
221711	2007 EC_{6}	16.7	X	176.01092	247.43868	158.20941	5.51270	0.1673954	0.22143910	2.7058258	21	4 22.6	21.1
221712	Moleson	17.0	X	183.42045	314.48975	151.38624	5.48615	0.1965148	0.23062123	2.6335194	21	7 11.2	21.5
221713	2007 EM_{10}	16.7	X	135.02102	254.38152	173.39160	2.23792	0.0480372	0.21646704	2.7471025	21	3 27.0	20.3
221714	2007 EH_{13}	17.7	X	26.74109	54.81313	326.04223	0.67738	0.1959817	0.26004621	2.4309109	21	—	—
221715	2007 EN_{13}	15.3	X	87.88809	3.44699	323.72166	8.50198	0.0678471	0.18850829	3.0124216	21	12 26.8	19.8
221716	2007 EY_{22}	16.6	X	274.90661	220.00529	6.73001	1.69589	0.0164195	0.20007734	2.8951481	21	1 4.3	20.7
221717	2007 EH_{24}	14.9	X	76.98493	309.80503	19.31255	18.89637	0.1396067	0.17713301	3.1400487	21	12 21.4	20.0
221718	2007 EY_{33}	15.8	X	57.99007	75.94303	212.99323	1.91947	0.0794801	0.17088816	3.2160890	21	10 4.5	20.1
221719	2007 EB_{34}	15.4	X	115.42890	121.35772	173.96531	13.06533	0.1427021	0.18172408	3.0869368	21	12 21.6	20.6
221720	2007 EF_{35}	15.2	X	115.43256	148.15594	144.71322	10.62070	0.0511694	0.18066335	3.0990078	21	12 13.9	19.9
221721	2007 EV_{37}	16.1	X	296.65067	31.25931	241.94842	1.45120	0.0461155	0.21125927	2.7920650	21	3 22.7	19.9
221722	2007 EC_{43}	16.8	X	186.80553	292.99369	170.99212	7.05849	0.1627462	0.23041920	2.6350586	21	7 11.8	21.2
221723	2007 EH_{43}	15.3	X	235.42656	359.60339	176.66218	12.59610	0.0915688	0.18168741	3.0873521	21	12 2.5	19.9
221724	2007 ES_{46}	16.5	X	236.29488	354.07470	4.11092	10.63396	0.2583436	0.28475130	2.2881908	21	4 5.8	20.5
221725	2007 EV_{48}	15.4	X	223.40746	194.97595	39.28044	9.12794	0.1420338	0.18587196	3.0408393	21	—	—
221726	2007 EY_{51}	15.4	X	205.74457	233.68908	315.72870	4.29382	0.1028874	0.18049510	3.1009334	21	11 11.6	20.3
221727	2007 ED_{52}	16.0	X	68.95287	347.44007	201.61739	4.83076	0.0747431	0.22258977	2.6964927	21	6 12.1	19.5
221728	2007 EO_{52}	16.5	X	79.91822	316.34323	186.14383	14.36045	0.1505909	0.21720618	2.7408668	21	5 9.6	20.1
221729	2007 EM_{53}	16.4	X	147.07811	65.68504	342.31158	2.83417	0.0927053	0.21075465	2.7965200	21	3 21.2	20.5
221730	2007 EJ_{64}	16.9	X	247.08893	330.11236	315.49129	3.02335	0.0707779	0.20928762	2.8095733	21	2 5.9	20.8
221731	2007 EE_{67}	16.6	X	198.44096	234.15427	36.24470	3.74598	0.0823774	0.19107931	2.9853386	21	—	—
221732	2007 EG_{75}	15.2	X	357.06681	177.15386	189.91982	14.34496	0.0988519	0.17138274	3.2098987	21	10 20.5	19.2
221733	2007 EQ_{75}	17.2	X	349.41666	129.87090	195.70084	4.63343	0.1665751	0.29738155	2.2229347	21	8 23.6	18.8
221734	2007 ES_{85}	15.8	X	178.88571	320.34153	269.31593	4.21387	0.2066336	0.17760628	3.1344680	21	11 28.6	21.1
221735	2007 EQ_{101}	15.9	X	354.99919	105.16855	97.08089	5.35990	0.0453076	0.20890259	2.8130244	21	3 13.8	19.6
221736	2007 EH_{109}	15.1	X	201.46823	63.43788	159.58654	7.14434	0.0902508	0.18155849	3.0888134	21	12 19.6	19.9
221737	2007 ED_{112}	15.0	X	60.23402	74.49639	173.51003	8.21084	0.0831467	0.15825462	3.3850502	21	8 15.7	19.6
221738	2007 EN_{113}	15.5	X	125.53825	89.61024	189.94205	11.44522	0.0309772	0.18063770	3.0993012	21	12 7.6	20.2
221739	2007 EE_{123}	15.3	X	185.99432	60.95565	156.58509	16.78316	0.0659468	0.18119633	3.0929278	21	12 1.7	20.3
221740	2007 EX_{129}	15.3	X	262.16981	1.39769	171.27637	8.24192	0.0191493	0.18800071	3.0178413	21	—	—
221741	2007 EW_{133}	15.6	X	87.59295	266.33613	38.48748	1.63938	0.1327603	0.17580402	3.1558536	21	12 4.1	20.3
221742	2007 EJ_{137}	16.4	X	188.83823	35.47483	303.93513	4.49881	0.0796393	0.20917727	2.8105613	21	2 9.2	20.6
221743	2007 EU_{139}	15.9	X	308.18901	73.69328	115.67323	3.16006	0.0115021	0.19945074	2.9012085	21	—	—
221744	2007 EQ_{141}	16.3	X	254.21878	298.36061	283.20038	1.95529	0.0630206	0.19269748	2.9686024	21	—	—
221745	2007 EK_{153}	15.1	X	2.72352	216.07191	150.63107	11.02393	0.0856053	0.17513271	3.1639130	21	10 30.9	19.3
221746	2007 ER_{166}	16.4	X	22.54629	310.71622	193.51081	4.45672	0.0632622	0.20568784	2.8422589	21	2 1.9	20.1
221747	2007 EU_{187}	15.1	X	39.40962	316.49243	10.37198	14.41277	0.2117585	0.17338723	3.1851115	21	11 11.2	19.5
221748	2007 ES_{191}	15.9	X	71.86870	113.33686	188.30638	3.23787	0.1006524	0.17042878	3.2218657	21	11 9.7	20.5
221749	2007 EQ_{196}	15.8	X	75.42816	132.37581	21.83423	9.12949	0.0920012	0.21449106	2.7639483	21	5 5.7	19.5
221750	2007 ES_{198}	16.0	X	168.31090	267.73861	186.41957	13.83247	0.0500175	0.22585244	2.6704607	21	6 9.9	20.1
221751	2007 EO_{202}	15.8	X	268.03874	300.62208	161.65097	1.86021	0.0429729	0.17538840	3.1608373	21	10 17.9	20.1
221752	2007 EA_{209}	15.1	X	75.16696	5.62093	359.97696	9.47352	0.0950018	0.18350726	3.0669066	21	—	—
221753	2007 EE_{210}	16.0	X	91.09151	152.27642	359.22124	13.94274	0.0484831	0.22307805	2.6925565	21	5 13.2	19.9
221754	2007 EX_{211}	16.1	X	45.36350	311.35754	148.75117	2.64187	0.0272926	0.20286589	2.8685562	21	1 10.5	19.9
221755	2007 EC_{220}	15.2	X	14.78502	182.28120	185.95600	5.63375	0.1378353	0.17330250	3.1861496	21	11 21.9	19.2
221756	2007 EM_{221}	16.6	X	172.66736	142.32144	176.26019	2.01905	0.0547574	0.20073409	2.8888298	21	—	—
221757	2007 FF_{7}	15.7	X	10.17362	33.95131	86.92838	3.11566	0.0462635	0.19651535	2.9300278	21	—	—
221758	2007 FS_{12}	15.0	X	128.68633	271.97238	315.33834	10.85179	0.0940095	0.17050519	3.2209030	21	10 6.4	20.1
221759	2007 FZ_{12}	14.9	X	207.84744	224.62376	327.52825	18.93299	0.1681352	0.17956077	3.1116811	21	11 5.0	20.2
221760	2007 FH_{23}	15.7	X	262.41145	34.56852	139.57724	3.16251	0.1300474	0.18619108	3.0373638	21	12 26.5	19.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
221761 2007 FX_{25}	16.4	X	146.35788	215.31284	172.81312	2.08426	0.0832156	0.20880575	2.8138941	21	2 23.4	20.5
221762 2007 FK_{26}	16.4	X	2.68243	244.95291	227.17332	0.70374	0.0146085	0.19339743	2.9614353	21	—	—
221763 2007 FH_{40}	15.9	X	87.71406	127.65565	159.96120	9.25215	0.1475686	0.17675401	3.1445358	21	11 18.4	20.8
221764 2007 FE_{43}	14.7	X	152.37281	299.91291	266.37264	15.38942	0.1045749	0.17164442	3.2066355	21	10 4.2	20.0
221765 2007 GC_{26}	15.5	X	350.23334	307.91463	180.54445	2.26734	0.0279068	0.19411948	2.9540871	21	—	—
221766 2007 GG_{30}	15.4	X	158.14972	54.81894	209.10846	9.19637	0.0891422	0.17826437	3.1267489	21	12 22.7	20.3
221767 2007 GT_{32}	15.9	X	238.00128	49.79779	148.19747	3.44257	0.0925659	0.18605463	3.0388486	21	12 30.3	20.3
221768 2007 GD_{34}	15.4	X	235.00314	238.62653	346.24599	5.02123	0.1739325	0.18646156	3.0344257	21	—	—
221769 Cima Rest	15.5	X	137.33675	255.79412	39.98953	16.96838	0.0957382	0.18218848	3.0816888	21	—	—
221770 2007 GG_{60}	15.5	X	263.94158	307.00833	251.16642	3.89262	0.0297191	0.18611392	3.0382032	21	—	—
221771 2007 GM_{62}	15.2	X	225.87499	319.77694	189.10134	9.96371	0.0852445	0.16935775	3.2354349	21	10 18.6	20.0
221772 2007 GY_{64}	15.3	X	231.11207	191.63080	30.43607	8.76669	0.0737808	0.18360249	3.0658460	21	—	—
221773 2007 GZ_{69}	15.8	X	39.54208	182.34243	187.81691	10.78260	0.0416466	0.18057171	3.1000563	21	12 16.2	20.3
221774 2007 GB_{76}	16.3	X	177.59573	244.85473	336.05439	1.58715	0.0575497	0.17379065	3.1801805	21	11 22.7	20.9
221775 2007 HA_{5}	15.7	X	59.68485	201.39488	174.44546	10.18227	0.0977874	0.18119309	3.0929647	21	—	—
221776 2007 HL_{41}	15.6	X	281.00921	320.02513	193.51863	7.22007	0.1333120	0.18227322	3.0807335	21	12 25.2	19.6
221777 2007 HY_{53}	16.8	X	211.35056	293.16410	167.72651	7.44454	0.1661011	0.23228493	2.6209296	21	7 30.6	21.0
221778 2007 KC	14.5	X	276.81670	147.40425	112.36801	4.08142	0.1610597	0.12508428	3.9597480	21	2 10.8	20.3
221779 2007 LG_{8}	15.1	X	334.10237	6.02979	99.75277	14.65192	0.1400447	0.17995219	3.1071672	21	—	—
221780 2007 MD_{11}	13.3	X	333.36752	134.05057	259.51390	1.61745	0.0272871	0.08291083	5.2086902	21	10 6.3	20.0
221781 2007 RD_{62}	15.9	X	286.98140	2.80515	0.79091	1.67148	0.0839265	0.20314776	2.8659022	21	7 2.8	19.8
221782 2007 RQ_{137}	17.0	X	219.40371	105.17261	306.49031	1.66091	0.1840333	0.26581100	2.3956356	21	6 4.4	20.9
221783 2007 TL_{159}	16.5	X	68.70652	38.74826	17.59479	13.43594	0.1715528	0.23234467	2.6204804	21	—	—
221784 2007 TW_{408}	15.3	X	311.44792	336.03100	301.47247	8.95059	0.0603160	0.18408756	3.0604579	21	4 13.8	19.7
221785 2007 VJ_{6}	13.7	X	340.87988	215.96042	191.82203	8.28115	0.0944171	0.08258233	5.2224940	21	10 30.9	20.2
221786 2007 VA_{8}	13.3	X	242.76917	332.90079	161.93674	7.94995	0.0245974	0.08411086	5.1590292	21	10 19.2	20.2
221787 2007 VZ_{30}	21.3	X	231.09332	99.26830	344.65203	2.45343	0.1947452	0.48470979	1.6050240	21	8 4.4	22.2
221788 2007 YC_{30}	17.1	X	275.73851	279.06956	309.11892	19.39913	0.0868312	0.37219995	1.9140437	21	—	—
221789 2008 AP_{21}	17.2	X	126.63417	226.96465	23.98756	2.44153	0.1667333	0.26517199	2.3994827	21	11 21.0	21.1
221790 2008 AE_{66}	17.2	X	239.28691	280.02666	324.16312	4.86923	0.1513033	0.28825263	2.2696237	21	—	—
221791 2008 AN_{114}	15.7	X	307.44505	179.16587	160.94164	14.90344	0.1504636	0.23338005	2.6127242	21	6 20.5	19.2
221792 2008 BY_{9}	17.2	X	280.89822	266.58225	346.91565	6.08321	0.1533397	0.29742238	2.2227312	21	1 12.2	20.4
221793 2008 BW_{31}	17.3	X	117.45644	314.83413	323.36292	1.77956	0.1693143	0.26822878	2.3812179	21	12 16.9	21.0
221794 2008 BC_{34}	17.0	X	120.30270	5.18059	223.78929	1.67353	0.1791025	0.25671198	2.4519144	21	10 18.9	20.9
221795 2008 BM_{36}	16.4	X	176.19099	111.59273	153.40528	8.48248	0.1437962	0.27500327	2.3419492	21	—	—
221796 2008 BB_{38}	17.3	X	257.91185	118.16249	152.80988	3.89257	0.1685258	0.29531952	2.2332702	21	1 9.8	20.7
221797 2008 BO_{47}	17.1	X	177.70263	278.37067	1.10250	2.24572	0.1599492	0.27488789	2.3426045	21	—	—
221798 2008 CC_{7}	16.3	X	40.43458	328.48346	338.51563	6.33614	0.2342098	0.25667404	2.4521560	21	11 7.1	19.4
221799 2008 CM_{23}	16.8	X	166.48455	34.73453	201.13990	2.19855	0.1468012	0.26947408	2.3738761	21	12 10.3	20.5
221800 2008 CJ_{44}	16.9	X	119.48790	228.11037	70.58708	2.31156	0.1856270	0.27034989	2.3687465	21	—	—
221801 2008 CX_{65}	17.9	X	268.43795	52.80699	175.64875	3.17628	0.1836400	0.28886365	2.2664221	21	—	—
221802 2008 CD_{86}	17.5	X	244.30237	286.84586	12.32459	5.57316	0.1882592	0.29689452	2.2253650	21	2 3.1	21.1
221803 2008 CK_{89}	16.7	X	56.92986	327.10283	351.80643	5.43917	0.1124495	0.26389029	2.4072458	21	11 28.4	19.9
221804 2008 CF_{124}	17.4	X	89.08489	109.05314	176.01015	3.76637	0.2336007	0.26352717	2.4094566	21	12 4.2	21.2
221805 2008 CE_{126}	16.8	X	162.61933	308.32719	303.27839	5.77653	0.1580574	0.27246579	2.3564672	21	12 26.0	20.4
221806 2008 CB_{145}	17.4	X	92.52493	102.76352	177.94277	5.06440	0.2144175	0.26186574	2.4196372	21	11 30.6	21.3
221807 2008 CM_{156}	17.3	X	235.78361	245.39564	8.70902	4.05029	0.1369236	0.28535246	2.2849760	21	—	—
221808 2008 CY_{194}	17.2	X	215.46956	263.79874	355.69573	2.40781	0.1619632	0.27973910	2.3154422	21	—	—
221809 2008 CD_{196}	16.9	X	50.47109	328.15823	355.89499	6.27250	0.1511388	0.25955470	2.4339788	21	12 1.8	20.3
221810 2008 CJ_{199}	17.2	X	65.88036	164.52751	140.34422	1.77363	0.1886469	0.25780580	2.4449741	21	12 1.2	20.8
221811 2008 CW_{200}	17.4	X	197.53309	156.46005	177.20738	7.76294	0.1829865	0.29181503	2.2511146	21	2 2.1	21.0
221812 2008 DN_{4}	17.3	X	68.44632	263.24256	186.61653	21.49874	0.1032858	0.37109531	1.9178401	21	—	—
221813 2008 DN_{16}	17.2	X	115.36463	290.71150	172.12659	21.52358	0.0776131	0.38163708	1.8823585	21	4 3.2	18.8
221814 2008 DK_{39}	17.4	X	204.04483	227.91155	342.80363	3.51638	0.1562065	0.26885554	2.3775157	21	12 15.3	20.7
221815 2008 EY_{4}	15.6	X	36.37172	320.19493	272.38273	10.78051	0.2487849	0.23624705	2.5915432	21	7 15.9	18.0
221816 2008 EL_{7}	17.4	X	112.23054	225.35695	185.81297	21.76470	0.0973346	0.37267818	1.9124059	21	1 2.4	19.6
221817 2008 EB_{15}	17.0	X	346.35945	72.95511	177.20414	7.63195	0.1845708	0.22911085	2.6450808	21	4 15.5	19.7
221818 2008 ES_{15}	17.0	X	114.98374	157.65473	161.64364	2.72697	0.1784052	0.26963943	2.3729055	21	—	—
221819 2008 EV_{15}	17.8	X	22.44709	23.14352	171.74467	6.10213	0.1212252	0.30252653	2.1976595	21	3 25.5	19.5
221820 2008 EX_{21}	17.3	X	250.65133	250.34918	322.69643	1.60343	0.1337082	0.27783598	2.3260037	21	—	—
221821 2008 EU_{28}	16.2	X	4.61492	69.63836	180.42882	13.45166	0.2252661	0.23064290	2.6333545	21	5 25.2	18.6
221822 2008 EP_{36}	17.2	X	173.09310	169.21916	64.07944	2.19679	0.1621584	0.26518254	2.3994190	21	12 11.6	21.0
221823 2008 EB_{41}	16.1	X	167.74663	199.33734	47.89901	12.96876	0.1299193	0.26702373	2.3883766	21	12 25.4	19.8
221824 2008 EL_{46}	17.2	X	245.70260	26.01927	210.87230	4.84509	0.1502524	0.28350517	2.2948910	21	—	—
221825 2008 EG_{58}	15.9	X	295.53348	225.69634	36.13360	14.00085	0.1621486	0.21961169	2.7208155	21	2 25.3	20.0
221826 2008 EE_{73}	16.7	X	89.47629	189.02235	63.33105	2.77942	0.1646667	0.25247368	2.4792785	21	10 17.9	20.3
221827 2008 EO_{78}	17.3	X	341.89779	16.27555	209.64022	6.50907	0.0886669	0.29897171	2.2150455	21	2 27.7	19.7
221828 2008 ER_{79}	16.4	X	312.73122	28.32388	205.07857	9.76746	0.1478208	0.21959821	2.7209267	21	2 2.0	20.3
221829 2008 EG_{109}	16.9	X	176.46488	165.40760	128.92847	6.46233	0.1458088	0.28015972	2.3131240	21	—	—
221830 2008 EX_{113}	17.1	X	92.22362	56.78298	245.79435	1.44360	0.2223867	0.26367965	2.4085277	21	12 26.6	21.0
221831 2008 EZ_{121}	17.3	X	216.58200	161.84808	189.50668	4.58578	0.1754248	0.30014489	2.2092697	21	3 13.2	20.7
221832 2008 EC_{142}	16.5	X	95.92922	335.56823	331.16110	6.42901	0.1472055	0.26378284	2.4078995	21	12 30.9	20.3
221833 2008 ER_{151}	17.2	X	95.56925	307.80476	16.09612	1.47057	0.1927239	0.26806446	2.3821909	21	—	—
221834 2008 EY_{151}	17.1	X	115.03499	331.43109	0.47687	2.11504	0.2284974	0.27270874	2.3550674	21	—	—
221835 2008 EJ_{158}	16.6	X	277.45241	63.80877	276.03788	4.71457	0.2005109	0.30698927	2.1763091	21	4 23.4	19.7
221836 2008 EC_{160}	17.2	X	154.39896	80.46611	143.18221	1.95009	0.1496477	0.26048734	2.4281656	21	11 13.0	20.9
221837 2008 FO_{1}	16.8	X	193.91682	166.54522	159.85989	7.29652	0.1695315	0.29232017	2.2485205	21	1 20.6	20.2
221838 2008 FE_{25}	17.0	X	70.22259	174.99940	176.75197	2.16592	0.2482025	0.26810144	2.3819718	21	—	—
221839 2008 FX_{26}	17.3	X	334.22205	351.29437	199.58182	3.47562	0.1618836	0.28971213	2.2619948	21	—	—
221840 2008 FH_{30}	17.3	X	175.42988	182.12274	77.37018	3.46424	0.1581307	0.27377860	2.3489281	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
221841 2008 FZ_{46}	17.8	X	94.94894	163.94222	130.19709	2.03191	0.1848310	0.26193888	2.4191868	21	12 16.3	21.5
221842 2008 FD_{62}	16.7	X	144.63313	125.81094	178.18691	7.98756	0.1352407	0.27466682	2.3438614	21	—	—
221843 2008 FZ_{65}	17.5	X	321.74112	353.67757	187.83836	2.37934	0.0937558	0.28454056	2.2893205	21	—	—
221844 2008 FT_{67}	16.8	X	232.31058	219.85115	55.65122	3.16059	0.0689924	0.28247222	2.3004823	21	—	—
221845 2008 FK_{71}	16.4	X	294.17119	325.06659	41.62334	15.77331	0.1480159	0.24059828	2.5602028	21	7 8.3	19.8
221846 2008 FR_{80}	17.1	X	183.77124	89.01126	198.08510	3.77720	0.0818934	0.27835979	2.3230847	21	—	—
221847 2008 FF_{83}	16.3	X	29.37255	115.66304	106.72009	3.51866	0.1382024	0.23287377	2.6165096	21	6 1.9	19.0
221848 2008 FB_{105}	15.4	X	67.01349	175.51394	127.22457	2.98641	0.1393658	0.17592005	3.1544658	21	11 11.7	20.0
221849 2008 FQ_{109}	16.2	X	102.51913	95.39298	175.85634	12.74168	0.1544040	0.18306420	3.0718530	21	11 15.3	21.2
221850 2008 FL_{115}	17.2	X	184.46075	193.06632	174.51785	8.24062	0.1388855	0.29686847	2.2254952	21	3 2.6	20.4
221851 2008 FG_{125}	15.1	X	65.02352	268.37963	52.40968	10.55550	0.2365111	0.17673353	3.1447786	21	12 11.0	19.9
221852 2008 FC_{128}	17.1	X	88.79488	272.87085	165.24852	6.90941	0.0570226	0.29099643	2.2553344	21	1 23.4	19.6
221853 2008 GB	16.2	X	302.17139	141.86791	144.28989	10.83073	0.1307638	0.22422463	2.6833696	21	4 5.9	19.9
221854 2008 GW	16.9	X	356.13316	194.60924	89.93223	2.66948	0.1549583	0.23814003	2.5777915	21	6 29.1	19.2
221855 2008 GJ_{6}	16.7	X	340.54927	161.71746	138.98230	5.76495	0.1194194	0.23733299	2.5836319	21	6 24.5	19.6
221856 2008 GA_{8}	16.8	X	35.12574	308.72603	54.95926	2.18095	0.1999606	0.26024843	2.4296514	21	—	—
221857 2008 GF_{10}	16.9	X	355.25220	146.82473	120.14925	2.83864	0.0918008	0.23139419	2.6276514	21	6 3.4	19.9
221858 2008 GS_{11}	15.5	X	38.54673	295.76572	60.67458	6.07719	0.2136202	0.17908021	3.1172454	21	12 21.7	19.8
221859 2008 GT_{20}	16.1	X	304.24046	353.71849	207.95325	21.85316	0.1624609	0.28628711	2.2800001	21	—	—
221860 2008 GM_{25}	16.6	X	281.98327	134.45011	134.40210	4.54169	0.0793666	0.22009997	2.7167900	21	2 22.5	20.4
221861 2008 GR_{59}	16.9	X	79.62713	60.03447	165.13772	2.89281	0.0940321	0.24131630	2.5551218	21	8 19.1	20.2
221862 2008 GD_{65}	17.2	X	148.58490	166.94954	96.74419	2.28301	0.1688175	0.26447521	2.4036952	21	12 26.2	21.0
221863 2008 GD_{70}	16.9	X	345.18809	191.16616	152.52619	9.55691	0.0875924	0.24345981	2.5401022	21	9 8.5	19.6
221864 2008 GS_{76}	16.3	X	274.31598	142.03539	192.01662	15.07854	0.1411438	0.22773726	2.6557060	21	4 29.9	20.1
221865 2008 GV_{78}	17.4	X	237.23662	100.18164	102.45927	2.20485	0.1245611	0.27054599	2.3676017	21	—	—
221866 2008 GB_{81}	16.9	X	114.05475	124.08481	158.63289	3.80516	0.0665051	0.25851706	2.4404874	21	12 13.9	20.3
221867 2008 GR_{90}	17.1	X	143.36978	245.30993	96.70967	1.77473	0.2343535	0.27766708	2.3269468	21	—	—
221868 2008 GE_{94}	16.7	X	141.13658	225.55043	71.98989	1.99796	0.1987312	0.27293036	2.3537924	21	—	—
221869 2008 GM_{115}	17.5	X	118.05339	274.48986	121.92816	6.11064	0.1357206	0.28670295	2.2777949	21	1 23.3	20.0
221870 2008 GB_{122}	16.8	X	162.83814	97.69414	148.99562	4.48488	0.0693543	0.26453429	2.4033373	21	12 23.3	20.1
221871 2008 GK_{127}	15.2	X	11.47780	223.62581	129.43609	12.20875	0.0848449	0.17560082	3.1582877	21	10 28.0	19.5
221872 2008 GO_{130}	17.1	X	57.18726	157.68189	211.03196	3.57670	0.1819022	0.26576015	2.3959411	21	—	—
221873 2008 GA_{132}	16.1	X	89.42517	133.76206	171.42292	9.75051	0.1060795	0.18041839	3.1018123	21	12 5.8	20.9
221874 2008 GD_{132}	17.1	X	334.15899	183.01649	167.64654	5.56699	0.0790873	0.24243752	2.5472378	21	8 29.0	19.9
221875 2008 HS_{1}	17.1	X	296.78623	69.11364	154.82831	6.95423	0.0654886	0.28559833	2.2836643	21	1 1.8	20.1
221876 2008 HG_{12}	16.8	X	234.83352	52.25816	179.21983	6.29376	0.0533521	0.27659636	2.3329481	21	—	—
221877 2008 HG_{16}	15.9	X	275.16411	51.27433	181.34079	8.91075	0.0481153	0.20651335	2.8346795	21	1 5.6	20.2
221878 2008 HY_{16}	16.7	X	325.99719	163.05581	114.08574	4.06239	0.0745352	0.22757864	2.6569398	21	5 4.1	20.0
221879 2008 HJ_{18}	15.8	X	63.17624	118.22586	189.40779	15.89488	0.2099315	0.17545970	3.1599809	21	11 23.0	20.6
221880 2008 HW_{32}	15.3	X	66.67197	245.94729	62.24338	10.09681	0.1324733	0.17865014	3.1222462	21	11 16.9	19.7
221881 2008 HP_{37}	15.4	X	295.94898	310.77865	33.11433	5.89789	0.2731479	0.23002905	2.6380372	21	5 17.5	18.8
221882 2008 HY_{39}	17.1	X	334.49087	80.43747	205.17703	6.79069	0.1830211	0.23212026	2.6221690	21	5 14.2	19.8
221883 2008 HV_{44}	17.3	X	242.83501	249.47420	92.92602	3.15739	0.1076586	0.30091361	2.2055056	21	4 1.8	20.3
221884 2008 HH_{45}	17.0	X	20.36667	316.98043	175.82348	5.23864	0.0884281	0.28564446	2.2834185	21	—	—
221885 2008 HA_{55}	16.0	X	83.90286	181.29940	105.79665	2.27513	0.1531444	0.17598941	3.1536369	21	11 12.7	20.6
221886 2008 HJ_{61}	16.2	X	283.25359	293.79659	42.47891	6.41798	0.1103139	0.22845134	2.6501690	21	5 16.0	19.6
221887 2008 HW_{67}	16.1	X	316.22540	330.79832	263.81515	6.61285	0.1672054	0.21616235	2.7496833	21	2 6.5	19.8
221888 2008 HM_{69}	16.2	X	255.42517	239.33335	233.04067	4.19961	0.0569422	0.25327123	2.4740709	21	10 21.8	19.4
221889 2008 JR_{10}	16.2	X	50.34804	174.85877	188.79957	13.42699	0.2729898	0.26218715	2.4176594	21	—	—
221890 2008 JX_{11}	17.4	X	135.97088	176.69695	169.21682	3.83999	0.0516121	0.27490756	2.3424927	21	—	—
221891 2008 JD_{15}	17.5	X	231.05652	279.74490	287.95508	1.33575	0.1316106	0.27190141	2.3597269	21	—	—
221892 2008 JY_{17}	15.6	X	102.06498	83.19525	186.96284	15.48241	0.0771962	0.17754564	3.1351816	21	11 5.4	20.3
221893 2008 JU_{19}	14.5	X	327.26068	224.04046	81.01031	18.04026	0.1102024	0.15563212	3.4229710	21	6 11.3	18.9
221894 2008 JK_{35}	16.2	X	33.40446	121.00562	163.28265	4.76174	0.1246585	0.23900729	2.5715519	21	9 7.9	19.0
221895 2008 JA_{36}	17.0	X	216.83389	308.45525	118.43173	3.14792	0.0458093	0.23449603	2.6044282	21	7 1.9	20.6
221896 2008 KO_{9}	16.7	X	301.24390	245.10053	103.53280	3.61615	0.0146253	0.23590593	2.5940409	21	7 12.8	20.1
221897 2008 KQ_{10}	15.7	X	59.56922	220.39176	119.41810	5.22855	0.2838858	0.17852393	3.1237176	21	—	—
221898 2008 KN_{13}	16.1	X	70.76623	185.55490	133.34929	1.69017	0.1752521	0.17864234	3.1223370	21	12 8.9	20.8
221899 2008 KC_{17}	16.1	X	90.40199	173.80257	165.73344	9.81192	0.1411412	0.18505814	3.0497477	21	—	—
221900 2008 KD_{31}	16.5	X	221.37964	199.81676	170.97293	9.21073	0.1136463	0.22140942	2.7060677	21	4 23.1	20.7
221901 2008 KZ_{32}	16.6	X	334.66223	256.02539	176.15388	6.60477	0.0873708	0.26158378	2.4213757	21	12 28.6	19.3
221902 2008 KL_{38}	17.2	X	271.22895	210.18631	152.96193	3.35956	0.0924897	0.23118667	2.6292236	21	6 9.2	20.7
221903 2008 KY_{38}	15.8	X	300.13150	195.84905	187.16957	13.89707	0.3349838	0.23546758	2.5972593	21	7 5.5	19.2
221904 2008 KN_{42}	15.3	X	105.60126	66.58187	179.94913	10.04664	0.1420557	0.17311739	3.1884204	21	10 17.1	20.2
221905 2008 LA_{8}	17.3	X	158.85421	244.25621	186.92650	5.27276	0.1187930	0.29935258	2.2131663	21	4 29.3	20.2
221906 2008 LN_{9}	15.2	X	49.04068	256.32157	78.95714	10.80191	0.2341049	0.17745922	3.1361994	21	12 11.7	19.7
221907 2008 LP_{10}	16.6	X	186.82542	193.87740	129.68078	2.90146	0.0604844	0.20481946	2.8502869	21	1 19.3	20.7
221908 Agastrophus	12.8	X	337.49145	142.24891	271.82334	7.34662	0.0659046	0.08543510	5.1055808	21	10 31.7	19.4
221909 2008 QY_{14}	13.2	X	317.73866	239.39641	174.96852	6.28579	0.0657249	0.08208924	5.2433866	21	10 9.7	19.9
221910 2008 QT_{23}	12.5	X	315.61348	8.24098	58.98378	19.72241	0.1116180	0.08363469	5.1785927	21	10 23.2	19.1
221911 2008 QX_{41}	12.8	X	302.74180	256.45132	176.98130	5.61650	0.0324775	0.08122718	5.2804200	21	10 15.9	19.6
221912 2008 RU_{25}	12.8	X	329.91301	281.96764	125.11273	5.30598	0.0943712	0.08187040	5.2527262	21	10 16.4	19.3
221913 2008 RS_{28}	13.4	X	330.32369	127.98954	302.13664	2.34404	0.0545304	0.08467450	5.1361097	21	11 11.1	20.1
221914 2008 RW_{33}	13.6	X	65.42097	91.01675	229.10803	3.14881	0.0256745	0.08258363	5.2224395	21	10 31.5	20.5
221915 2008 SH_{8}	12.9	X	336.99225	189.34116	220.35549	4.07760	0.0608209	0.08446462	5.1446143	21	10 28.1	19.4
221916 2008 SQ_{81}	13.2	X	4.93393	286.52532	107.02576	5.39198	0.0430599	0.08543483	5.1055918	21	11 15.1	19.8
221917 Opites	12.6	X	314.66480	86.95798	328.54698	23.91772	0.0783324	0.08167650	5.2610365	21	9 24.3	19.5
221918 2008 UU_{34}	16.0	X	181.76946	275.26460	87.38062	4.34112	0.0537790	0.18644453	3.0346105	21	3 6.4	20.6
221919 2008 WZ_{92}	16.2	X	334.91596	39.77546	28.89646	2.77688	0.0901957	0.23109137	2.6299464	21	12 15.9	19.1
221920 2009 KF_{5}	16.2	X	260.49021	154.59989	165.17806	12.90184	0.1360007	0.23724990	2.5842351	21	3 26.8	20.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
221921 2009 MD_3	15.7	X	128.93767	130.96935	122.70560	10.22839	0.0498980	0.18392902	3.0622164	21	11 14.8	20.4
221922 2009 OJ	16.2	X	44.71638	341.61599	313.23171	6.67700	0.2347164	0.25506651	2.4624481	21	10 26.7	19.4
221923 Jayeff	16.9	X	34.18282	173.26121	187.82057	2.97476	0.2293341	0.26237518	2.4165042	21	—	—
221924 2009 OE_5	17.3	X	181.38802	293.19604	351.61856	1.53294	0.1186622	0.28240046	2.3008719	21	—	—
221925 2009 ON_6	16.9	X	198.62385	25.43005	268.46769	3.51856	0.1328085	0.28967541	2.2621859	21	—	—
221926 2009 OA_9	17.6	X	189.94702	114.53859	197.85773	6.14833	0.1554786	0.28978181	2.2616322	21	—	—
221927 2009 OQ_9	16.5	X	353.02493	185.48282	189.01918	5.65583	0.2924697	0.25354563	2.4722855	21	12 3.0	18.3
221928 2009 OD_{13}	15.6	X	349.52683	121.44035	246.06799	6.90080	0.1141318	0.17009583	3.2260686	21	10 5.4	19.6
221929 2009 OM_{13}	16.5	X	250.01973	33.50260	270.94757	0.91671	0.0567828	0.21947905	2.7219115	21	3 3.4	20.4
221930 2009 OH_{15}	17.2	X	47.10211	29.95848	337.05276	3.02376	0.1460577	0.26637707	2.3922404	21	—	—
221931 2009 OD_{18}	17.6	X	177.45558	218.58500	153.77518	7.10813	0.2063888	0.29678071	2.2259340	21	3 7.6	20.9
221932 2009 OL_{18}	17.1	X	131.63186	46.88724	223.94995	1.75338	0.1766948	0.26969197	2.3725973	21	12 20.8	21.0
221933 2009 PE	17.8	X	149.23307	258.58830	87.43580	0.82671	0.2472592	0.28550494	2.2841623	21	1 11.5	21.0
221934 2009 PK_1	16.7	X	105.75168	137.47709	145.44789	4.98885	0.1767360	0.26546887	2.3976934	21	12 12.8	20.5
221935 2009 QF_2	15.7	X	44.01395	110.23930	223.65277	12.77739	0.2962047	0.17579332	3.1559817	21	12 12.3	20.2
221936 2009 QP_{35}	17.3	X	205.53405	228.49139	136.44170	6.47025	0.2266508	0.29956540	2.2121180	21	3 24.0	21.0
221937 2066 $P\text{–}L$	15.7	X	328.30290	351.94810	4.03670	11.29555	0.1833696	0.24150600	2.5537837	21	8 23.6	18.2
221938 3019 $P\text{–}L$	15.8	X	256.14495	28.48503	327.28486	11.95310	0.2555626	0.22237704	2.6982121	21	4 19.2	20.5
221939 6017 $P\text{–}L$	16.8	X	321.56191	352.97845	351.66294	12.29937	0.1819401	0.24109195	2.5567067	21	7 21.4	19.6
221940 6508 $P\text{–}L$	17.3	X	239.31540	306.06313	29.75944	5.91545	0.1083749	0.30181566	2.2011089	21	3 19.9	20.3
221941 1146 $T\text{–}2$	17.1	X	193.88368	359.03823	4.78776	7.71277	0.1654078	0.30002042	2.2098808	21	3 10.1	20.3
221942 1543 $T\text{–}2$	17.0	X	131.17531	302.51877	358.16759	2.55801	0.1781285	0.27308590	2.3528985	21	—	—
221943 1190 $T\text{–}3$	16.7	X	127.62596	120.62328	253.88590	5.78373	0.2214107	0.27816482	2.3241701	21	1 20.4	19.6
221944 2339 $T\text{–}3$	15.6	X	8.04195	149.69641	284.00043	4.02622	0.1564740	0.18320356	3.0702951	21	—	—
221945 3227 $T\text{–}3$	15.8	X	274.41827	277.87913	33.90764	9.51876	0.1382966	0.21672191	2.7449483	21	4 3.3	19.8
221946 1990 KL_1	16.8	X	180.34301	270.13392	65.64558	24.24209	0.0871148	0.37176755	1.9155275	21	—	—
221947 1992 DW_9	16.7	X	269.35369	300.96199	240.53664	2.62765	0.1815275	0.26185326	2.4197142	21	—	—
221948 1993 FO_{59}	16.0	X	114.22834	313.38932	171.00449	4.47164	0.0214450	0.21476336	2.7616116	21	5 10.9	19.7
221949 1993 SJ_9	15.1	X	107.20936	174.81335	191.57047	15.01386	0.1576125	0.18760436	3.0220903	21	—	—
221950 1993 TF_{15}	15.0	X	52.54003	25.38131	23.04410	9.34416	0.1323353	0.18518519	3.0483527	21	—	—
221951 1993 TZ_{33}	15.6	X	66.38849	315.00276	52.83618	9.29455	0.0823476	0.18264778	3.0765202	21	—	—
221952 1994 PU_{15}	17.0	X	170.32523	310.13013	323.80805	1.84383	0.2444391	0.27004373	2.3705365	21	—	—
221953 1994 TC_{13}	16.5	X	308.68926	149.68000	351.66494	4.80775	0.1321259	0.26506342	2.4001378	21	—	—
221954 1994 VA_5	17.2	X	288.06258	157.32354	356.08436	3.21124	0.1424557	0.26206018	2.4184403	21	—	—
221955 1995 CD_8	17.7	X	347.61056	213.75588	190.76047	1.30334	0.2391593	0.25299491	2.4758720	21	12 27.3	19.6
221956 1995 FW_5	14.8	X	26.14313	68.72764	359.32769	10.09964	0.1002009	0.18096955	3.0955112	21	—	—
221957 1995 FZ_{19}	15.9	X	186.62948	177.15466	11.39002	6.22729	0.1204059	0.17173357	3.2055256	21	10 21.3	21.0
221958 1995 MQ_6	17.2	X	145.67317	117.79656	258.83988	9.64799	0.1378857	0.28647048	2.2790270	21	1 29.9	20.3
221959 1995 OP_{15}	16.7	X	211.10930	239.84762	164.19850	9.54290	0.1457183	0.22055375	2.7130622	21	5 23.4	21.2
221960 1995 SZ_9	16.5	X	235.00930	355.90780	14.18820	1.58545	0.0944964	0.21756571	2.7378464	21	5 5.7	20.7
221961 1995 SY_{26}	17.0	X	82.62890	78.96828	12.31136	4.60566	0.0567745	0.28398634	2.2922980	21	2 6.3	19.4
221962 1995 SQ_{32}	17.2	X	119.35801	26.49613	348.50459	5.25643	0.2346178	0.28185295	2.3038507	21	1 14.1	19.9
221963 1995 SY_{35}	18.0	X	164.70624	155.35365	176.04725	6.28759	0.2752337	0.28356335	2.2945771	21	1 10.1	21.7
221964 1995 SF_{37}	17.5	X	22.52297	125.56297	341.46230	2.70223	0.1470639	0.28014727	2.3131926	21	—	—
221965 1995 SA_{39}	16.3	X	113.10253	96.75181	12.14762	6.32610	0.0133628	0.21312058	2.7757848	21	4 15.8	20.2
221966 1995 SW_{40}	17.7	X	78.45988	33.18577	40.16845	3.00760	0.1261735	0.28178920	2.3041981	21	1 11.5	19.8
221967 1995 SU_{62}	16.9	X	216.87999	168.96297	174.11773	8.48403	0.2257214	0.21260416	2.7802779	21	3 11.6	21.7
221968 1995 SF_{75}	16.0	X	187.92439	0.29290	55.31469	0.48929	0.1031811	0.21474577	2.7617623	21	5 13.8	20.3
221969 1995 US_{20}	16.4	X	198.67016	350.40939	16.99706	5.72900	0.0562824	0.21131601	2.7915652	21	3 26.4	20.6
221970 1995 UH_{22}	16.6	X	94.04825	109.82915	20.68096	4.14757	0.0488696	0.21245226	2.7816030	21	4 24.9	20.4
221971 1995 UN_{22}	17.4	X	72.60002	235.56362	206.64808	2.75491	0.1377957	0.28081402	2.3095295	21	1 13.9	19.5
221972 1995 UT_{22}	16.8	X	213.30524	193.29794	204.90386	1.88168	0.0958258	0.21566872	2.7538774	21	5 18.7	20.8
221973 1995 UQ_{55}	17.5	X	99.70021	158.80900	253.76037	2.19761	0.1578529	0.28045886	2.3114789	21	1 22.4	19.8
221974 1995 VV_4	16.1	X	326.25655	147.92892	81.98530	5.58110	0.0185711	0.20922237	2.8101574	21	3 13.7	19.9
221975 1995 VK_9	17.4	X	117.74279	178.03094	228.25826	2.98854	0.1363065	0.28103728	2.3083063	21	2 5.6	20.0
221976 1995 VL_{11}	16.5	X	277.81955	296.18915	80.54760	5.88241	0.1279546	0.21997171	2.7178459	21	6 30.9	20.1
221977 1995 WG_1	15.6	X	179.36981	141.91253	248.54271	4.57727	0.1387899	0.20872372	2.8146313	21	4 3.6	20.2
221978 1995 WJ_{16}	17.1	X	292.39396	163.82473	24.78325	5.77962	0.1200065	0.27670580	2.3323329	21	—	—
221979 1995 WA_{27}	17.6	X	109.88751	60.19012	332.06392	2.81196	0.2017233	0.27946399	2.3169615	21	1 18.5	19.9
221980 1996 EO	19.0	X	172.31063	64.69695	356.47808	21.59281	0.4006490	0.63440839	1.3413953	21	4 15.3	20.6
221981 1996 EB_{13}	15.4	X	82.91582	284.29170	354.20225	25.40809	0.2799804	0.17316958	3.1877798	21	11 2.4	20.9
221982 1996 GW_4	14.6	X	126.84532	41.13035	73.42035	3.96631	0.1515589	0.12410239	3.9806069	21	5 31.9	20.6
221983 1996 PJ_2	16.0	X	328.73419	16.77944	320.51814	12.11350	0.1665773	0.23563162	2.5960537	21	7 24.5	18.7
221984 1996 XU_{21}	16.5	X	160.13204	46.96753	62.82630	3.85505	0.0533731	0.21888965	2.7267955	21	6 20.3	20.4
221985 1997 BR_5	16.6	X	32.42943	14.30454	141.21978	6.42484	0.0904147	0.28740553	2.2740812	21	2 15.1	18.5
221986 1997 CR_2	16.4	X	223.64188	261.93254	118.41527	4.91677	0.1923795	0.21759062	2.7376374	21	5 3.4	21.0
221987 1997 CS_{12}	16.1	X	133.51519	328.59175	138.24505	5.70220	0.1206495	0.21332911	2.7739756	21	5 24.3	20.3
221988 1997 EE_{24}	16.9	X	146.12154	24.33908	54.80638	4.74561	0.1412331	0.29276366	2.2462492	21	4 28.0	19.8
221989 1997 GV_1	16.9	X	349.69006	345.26536	210.49547	1.37787	0.1857896	0.28397358	2.2923667	21	1 17.3	19.1
221990 1997 GP_{18}	17.0	X	230.15104	104.49229	165.67144	2.49018	0.1534543	0.27621689	2.3350843	21	—	—
221991 1997 GB_{21}	16.6	X	3.81049	346.16111	182.16535	5.11660	0.0940580	0.28257411	2.2999292	21	1 15.1	19.2
221992 1997 LL_5	15.5	X	87.90733	223.58792	122.44547	11.08125	0.0843465	0.18389063	3.0626425	21	—	—
221993 1997 MM_7	15.2	X	156.54503	67.55192	177.30520	14.18567	0.1052213	0.17633206	3.1495501	21	12 1.0	20.4
221994 1997 PT_4	16.2	X	90.54833	92.57776	285.43237	3.05581	0.2293797	0.26176666	2.4202478	21	—	—
221995 1997 TT_{21}	13.5	X	352.07757	204.83536	211.62721	5.54603	0.0639180	0.08364275	5.1782599	21	11 23.8	20.0
221996 1997 YN_1	15.6	X	237.95531	313.65337	126.80370	13.19963	0.2518265	0.23524116	2.5989256	21	7 23.9	19.9
221997 1998 AD_1	15.6	X	329.73729	257.04217	110.05497	14.57294	0.2012608	0.23884063	2.5727480	21	9 14.2	18.1
221998 1998 DL_{29}	16.5	X	16.70594	40.43476	210.36918	4.98709	0.0801274	0.22490652	2.6779431	21	6 16.9	19.6
221999 1998 EE_{18}	15.7	X	223.67805	158.58937	331.87463	11.73984	0.1714871	0.23531123	2.5984096	21	9 16.5	19.7
222000 1998 FL_{137}	15.9	X	339.65659	18.04973	193.00435	13.55079	0.1363055	0.21159966	2.7890700	21	2 13.6	19.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
222001 1998 *HU*	15.9	X	41.36109	3.33847	182.32994	9.24242	0.2145284	0.21572084	2.7534338	21	5 13.9	18.7
222002 1998 HN_{10}	14.5	X	301.64839	206.51670	30.71916	9.13074	0.1198185	0.12467123	3.9684893	21	2 20.6	20.1
222003 1998 HQ_{83}	15.8	X	165.54458	112.05438	51.55493	12.47728	0.2245879	0.22801137	2.6535771	21	9 12.9	20.6
222004 1998 MF_{17}	17.0	X	135.55390	53.06303	307.12254	6.55850	0.1331744	0.27893605	2.3198841	21	—	—
222005 1998 QA_{59}	16.7	X	76.66588	70.90018	346.35183	3.64785	0.1380991	0.27462089	2.3441227	21	—	—
222006 1998 QJ_{59}	15.5	X	14.26918	85.31991	354.96205	9.24915	0.2841586	0.18202881	3.0834906	21	—	—
222007 1998 QX_{59}	16.0	X	108.58722	252.80345	109.98480	0.72695	0.1613282	0.18620382	3.0372252	21	—	—
222008 1998 QQ_{63}	18.9	X	98.84596	265.42030	104.45966	1.67114	0.5499118	0.27108724	2.3644493	21	2 1.3	21.6
222009 1998 QO_{70}	16.6	X	151.45550	95.87949	222.71794	10.22003	0.2391249	0.27541824	2.3395962	21	—	—
222010 1998 QY_{95}	14.9	X	111.93042	103.11752	274.83489	7.69377	0.1127507	0.18910234	3.0061094	21	1 9.3	19.0
222011 1998 *RP*	16.1	X	230.51039	92.96243	268.52605	4.32968	0.1854694	0.28975298	2.2617822	21	4 7.2	19.6
222012 1998 RY_{2}	16.2	X	194.69158	109.04436	183.52157	1.44342	0.1003187	0.18966662	3.0001441	21	—	—
222013 1998 RF_{45}	15.9	X	54.77097	158.35896	177.90982	5.22802	0.2671157	0.17784087	3.1317109	21	12 23.4	20.5
222014 1998 SL_{5}	17.4	X	84.45497	227.79929	187.27785	2.01330	0.1969402	0.27466005	2.3438999	21	1 6.4	19.2
222015 1998 SB_{7}	17.3	X	202.48990	92.72826	179.17254	6.35286	0.1001081	0.27525262	2.3405347	21	—	—
222016 1998 SO_{7}	17.2	X	97.92008	322.73931	356.39475	5.03295	0.1989798	0.26834260	2.3805445	21	—	—
222017 1998 SN_{39}	15.9	X	143.40819	149.83597	168.50177	2.69579	0.0739794	0.18596572	3.0398171	21	—	—
222018 1998 SU_{41}	17.1	X	52.14240	67.02401	3.65932	6.47562	0.1064736	0.27281657	2.3544468	21	—	—
222019 1998 ST_{44}	16.7	X	346.01684	270.03704	233.86227	3.05352	0.1640031	0.27067890	2.3668266	21	—	—
222020 1998 SK_{46}	16.1	X	41.34358	106.40613	339.00957	0.42796	0.2958687	0.18361924	3.0656596	21	—	—
222021 1998 SS_{48}	17.1	X	82.26372	171.49999	211.11080	7.13071	0.1202442	0.26973508	2.3723445	21	—	—
222022 1998 SV_{50}	15.9	X	92.16794	332.46586	8.41405	3.21307	0.0997976	0.17972843	3.1097457	21	—	—
222023 1998 SV_{63}	16.5	X	138.35250	302.84989	40.62731	7.40724	0.1600192	0.27327024	2.3518403	21	—	—
222024 1998 SZ_{76}	14.9	X	118.47426	31.12147	327.68766	9.67389	0.1021215	0.18709680	3.0275533	21	—	—
222025 1998 SF_{77}	15.1	X	341.86981	97.63756	348.63089	25.98393	0.1931319	0.17928059	3.1149222	21	—	—
222026 1998 SX_{106}	15.8	X	43.50552	55.18436	357.49402	1.64728	0.2468159	0.18189498	3.0850029	21	—	—
222027 1998 SK_{113}	15.2	X	84.66696	251.60153	71.88430	5.59409	0.1673189	0.17914801	3.1164588	21	12 26.9	20.0
222028 1998 SW_{148}	17.0	X	102.95824	355.54781	18.82339	2.53222	0.2152139	0.27297587	2.3535308	21	—	—
222029 1998 SA_{154}	17.1	X	130.78190	263.45874	90.04846	3.38295	0.2116200	0.27448832	2.3448774	21	—	—
222030 1998 SF_{156}	16.5	X	119.45648	329.03984	15.98363	3.54767	0.1065690	0.27143230	2.3624449	21	—	—
222031 1998 SP_{158}	17.0	X	12.72531	220.90831	159.35028	2.91052	0.2202257	0.26196488	2.4190268	21	—	—
222032 Lupton	16.4	X	72.42521	159.49678	229.13546	0.92918	0.0880315	0.18472957	3.0533629	21	—	—
222033 1998 TE_{2}	15.2	X	12.04125	198.85550	258.49035	3.69830	0.2214989	0.18150417	3.0894297	21	—	—
222034 1998 TW_{2}	17.1	X	114.48524	186.89347	261.70691	1.94262	0.1659503	0.27946012	2.3169829	21	4 5.7	20.1
222035 1998 TM_{9}	17.2	X	131.15762	287.57920	39.02991	0.81964	0.2188816	0.27097907	2.3650785	21	—	—
222036 1998 TA_{12}	17.3	X	25.47876	86.06015	32.61679	1.76545	0.1342620	0.27221292	2.3579263	21	—	—
222037 1998 TC_{12}	15.3	X	42.94891	199.73867	211.82813	5.10341	0.1495818	0.18076646	3.0978292	21	—	—
222038 1998 TB_{20}	15.1	X	355.98228	95.14350	25.93076	10.95540	0.0806225	0.18306159	3.0718822	21	—	—
222039 1998 TM_{20}	16.9	X	45.41015	45.58927	30.49999	3.79920	0.1706916	0.26979446	2.3719964	21	—	—
222040 1998 TT_{23}	16.0	X	62.74413	54.43358	315.47234	0.84268	0.0933598	0.18023979	3.1038611	21	—	—
222041 1998 UZ_{2}	17.1	X	65.25009	166.06936	222.88464	5.94083	0.1527318	0.26788637	2.3832465	21	—	—
222042 1998 UH_{9}	15.4	X	121.15132	279.32432	9.49562	9.37442	0.0712346	0.17953722	3.1119532	21	12 14.2	20.2
222043 1998 UM_{12}	15.5	X	21.66417	62.47804	35.66305	15.99398	0.2145164	0.18221013	3.0814447	21	—	—
222044 1998 UR_{30}	17.0	X	80.66718	249.25831	149.52421	5.62679	0.2170153	0.27001988	2.3706761	21	—	—
222045 1998 UH_{37}	17.0	X	87.50023	197.60499	200.93909	1.71344	0.2168528	0.27177292	2.3604706	21	—	—
222046 1998 UG_{44}	17.1	X	63.70569	148.10761	264.32452	1.49004	0.2069984	0.26956137	2.3733636	21	—	—
222047 1998 UE_{47}	17.3	X	50.42449	19.14683	67.30910	3.64238	0.1362199	0.27119226	2.3638388	21	—	—
222048 1998 UG_{50}	16.8	X	138.06361	273.25505	39.84039	12.22022	0.2300469	0.26990867	2.3713273	21	—	—
222049 1998 UT_{50}	13.0	X	278.96808	66.14928	43.53918	10.95978	0.1034565	0.08378156	5.1725389	21	10 21.1	19.8
222050 1998 VC_{2}	17.1	X	95.60916	122.75370	241.01899	1.67075	0.2002622	0.26882628	2.3776882	21	—	—
222051 1998 VW_{3}	17.3	X	67.03977	336.90016	55.28281	2.38472	0.1799213	0.26758000	2.3850653	21	—	—
222052 1998 VS_{14}	14.9	X	58.57372	138.51070	230.83675	13.46815	0.2157613	0.17808344	3.1288665	21	—	—
222053 1998 VR_{55}	14.8	X	0.06729	52.75084	40.02275	13.02853	0.1651149	0.17911323	3.1168623	21	—	—
222054 1998 WS_{2}	14.6	X	86.78788	118.40925	232.50087	16.84951	0.0942383	0.17848914	3.1241234	21	—	—
222055 1998 WF_{3}	14.5	X	33.99409	184.86416	240.29057	19.19801	0.1590055	0.17960709	3.1111461	21	—	—
222056 1998 WK_{24}	13.8	X	4.75526	24.24653	355.48360	3.31777	0.0499292	0.08598428	5.0838182	21	10 28.7	20.4
222057 1998 WS_{25}	15.1	X	67.29033	329.95434	46.50655	7.97525	0.1598721	0.17969213	3.1101644	21	—	—
222058 1998 WE_{36}	17.0	X	55.04374	346.65605	56.16445	4.09187	0.0819057	0.26767249	2.3845159	21	—	—
222059 1998 WQ_{37}	15.4	X	271.93528	153.05753	48.87184	10.79310	0.0495429	0.18182583	3.0857850	21	—	—
222060 1998 WA_{39}	15.1	X	304.07634	308.58177	230.29461	16.63355	0.1878473	0.18030452	3.1031181	21	—	—
222061 1998 XN_{5}	16.8	X	77.62365	294.20075	88.36422	2.61401	0.1889629	0.26793558	2.3829547	21	—	—
222062 1998 XC_{6}	16.5	X	19.54652	22.94088	73.27085	12.85317	0.2100045	0.26693025	2.3889342	21	—	—
222063 1998 XK_{6}	13.0	X	325.59859	183.36411	229.20362	13.17993	0.0803092	0.08258721	5.2222883	21	10 13.6	19.6
222064 1998 XO_{8}	15.3	X	4.88965	331.56997	80.69734	11.95757	0.1338316	0.17451739	3.1713457	21	12 30.3	19.3
222065 1998 XZ_{22}	15.6	X	97.64944	283.63754	65.95724	5.69044	0.1349163	0.17904460	3.1176586	21	—	—
222066 1998 XM_{59}	14.0	X	28.22946	155.22319	251.62136	18.00624	0.1711371	0.17522715	3.1627761	21	—	—
222067 1999 AJ_{10}	14.0	X	340.26107	99.39550	46.84253	26.56270	0.2644298	0.17460002	3.1703450	21	—	—
222068 1999 EH_{15}	16.2	X	10.80152	263.52110	327.20491	7.55363	0.0391722	0.23124877	2.6287529	21	5 5.5	19.7
222069 1999 FP_{84}	16.3	X	46.75906	336.65383	245.67805	5.44127	0.1554621	0.23197592	2.6232567	21	7 5.7	19.1
222070 1999 GV_{11}	16.9	X	298.43543	240.94715	199.74745	1.61706	0.1518246	0.24507668	2.5289179	21	10 30.5	19.5
222071 1999 GR_{12}	16.1	X	165.96913	327.95896	202.75056	12.65589	0.0794214	0.23846320	2.5754619	21	9 14.0	19.9
222072 1999 GT_{60}	15.6	X	133.83832	354.09146	210.57863	17.43542	0.2187989	0.23872535	2.5735762	21	9 28.9	20.1
222073 1999 HY_{1}	18.0	X	132.78390	89.86310	216.10772	34.22495	0.1307749	0.60382720	1.3863118	21	—	—
222074 1999 JO_{28}	15.7	X	355.06635	212.80329	39.92761	11.10791	0.1581066	0.22440623	2.6819218	21	5 7.9	18.3
222075 1999 JX_{101}	15.9	X	238.96148	102.91209	189.82900	7.07315	0.3004258	0.21269422	2.7794931	21	1 25.5	21.1
222076 1999 KM_{2}	15.9	X	40.00700	185.95116	59.74457	12.30966	0.0769640	0.22888554	2.6468163	21	7 19.7	19.3
222077 1999 KK_{7}	15.5	X	353.30573	182.25174	82.36505	13.08692	0.1497541	0.22457238	2.6805988	21	5 25.8	18.4
222078 1999 KR_{11}	16.3	X	335.11050	190.49041	58.00953	9.17304	0.2514126	0.22009834	2.7168033	21	3 17.8	19.4
222079 1999 NE_{43}	17.0	X	266.86414	182.07272	120.44254	10.36398	0.3553051	0.30383637	2.1913389	21	2 15.9	20.9
222080 1999 RH_{81}	16.0	X	174.82934	186.09778	168.93182	11.68510	0.1797486	0.20287762	2.8684456	21	2 19.4	20.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
222081 1999 RL_{90}	17.2	X	239.48522	299.21428	40.99393	3.56575	0.1904332	0.30002477	2.2098594	21	3 21.4	20.6
222082 1999 RM_{91}	17.1	X	189.64783	174.95143	165.64784	6.59593	0.1558272	0.29342534	2.2428711	21	2 2.4	20.5
222083 1999 RB_{106}	16.8	X	240.60429	85.51639	254.74808	4.37502	0.2156292	0.30038627	2.2080861	21	3 17.6	20.3
222084 1999 RP_{131}	17.3	X	206.50767	99.36845	254.57856	5.23183	0.2150598	0.29804660	2.2196267	21	3 6.1	21.1
222085 1999 RD_{159}	16.7	X	216.56718	6.95855	355.23742	7.02852	0.1531983	0.29984376	2.2107487	21	3 27.2	19.8
222086 1999 RP_{178}	17.3	X	202.59383	217.04820	141.47317	6.14663	0.1932478	0.29734856	2.2230991	21	3 12.4	20.8
222087 1999 RG_{218}	17.3	X	245.52776	175.30968	153.94590	3.93698	0.2126146	0.30084277	2.2058518	21	3 10.9	20.7
222088 1999 TR_{44}	17.4	X	196.69008	337.05338	4.35540	6.71086	0.1668202	0.29317458	2.2441498	21	2 13.9	20.9
222089 1999 TQ_{46}	16.6	X	99.86822	50.90663	59.08844	2.84362	0.0235551	0.20592768	2.8400516	21	4 4.4	20.5
222090 1999 TM_{50}	16.4	X	140.35393	140.02114	216.18234	1.21283	0.0771758	0.19825891	2.9128240	21	1 10.1	20.5
222091 1999 TG_{51}	15.6	X	58.64394	103.95384	1.19490	8.72603	0.0126638	0.19897322	2.9058485	21	2 6.1	19.6
222092 1999 TT_{112}	17.0	X	177.34707	135.34678	249.63284	4.75927	0.1616893	0.29567295	2.2314902	21	3 17.9	20.3
222093 1999 TU_{129}	16.9	X	176.26465	298.09547	353.44433	5.27650	0.1642037	0.28695105	2.2764818	21	—	—
222094 1999 TP_{133}	15.9	X	204.60754	109.09457	211.09364	4.78792	0.0931036	0.20110966	2.8852322	21	2 2.8	20.5
222095 1999 TG_{141}	16.5	X	248.67743	313.33665	25.03552	6.44436	0.1400699	0.29817612	2.2189838	21	3 30.9	19.6
222096 1999 TX_{154}	15.8	X	125.80031	352.21145	26.90837	10.12856	0.0898002	0.19679970	2.9272047	21	1 26.4	20.1
222097 1999 TU_{157}	17.5	X	180.73814	173.17569	204.67513	19.22213	0.1007780	0.38369684	1.8756159	21	2 19.7	20.1
222098 1999 TG_{167}	17.1	X	172.77690	145.07992	227.20416	5.97254	0.1120096	0.29304254	2.2448239	21	2 20.8	20.3
222099 1999 TK_{170}	16.6	X	85.63511	55.61614	19.69813	7.89027	0.2612340	0.19652722	2.9299097	21	3 10.6	20.3
222100 1999 TH_{177}	17.2	X	199.35588	197.69773	218.37835	3.93023	0.0980819	0.30055113	2.2072785	21	5 22.8	20.2
222101 1999 TR_{204}	17.0	X	255.26868	136.05637	228.77579	5.40672	0.0605062	0.30164784	2.2019252	21	5 22.4	19.6
222102 1999 TA_{206}	17.4	X	202.09991	330.71954	26.97009	6.63372	0.1990564	0.29403436	2.2397730	21	3 12.3	21.0
222103 1999 TC_{208}	17.2	X	213.96954	345.22942	339.42880	19.16790	0.0936998	0.38398147	1.8746889	21	1 26.4	19.6
222104 1999 TU_{253}	16.9	X	137.33744	226.21203	211.48819	7.69768	0.1423239	0.29383125	2.2408050	21	4 14.7	19.9
222105 1999 TC_{254}	15.6	X	352.11626	250.09967	228.37743	6.09859	0.0891878	0.19101469	2.9860119	21	—	—
222106 1999 TO_{257}	17.3	X	238.08678	306.05481	68.80648	3.37170	0.1514191	0.30205902	2.1999265	21	5 6.2	20.2
222107 1999 TG_{269}	17.3	X	229.64095	26.69747	330.63978	7.56426	0.1908206	0.29952802	2.2123020	21	3 30.1	20.8
222108 1999 TU_{285}	16.1	X	132.46862	101.35375	260.43803	4.84795	0.2308995	0.19659674	2.9292190	21	1 25.7	20.7
222109 1999 TT_{299}	16.1	X	246.94710	192.96467	41.08039	3.05507	0.0418683	0.19196363	2.9761632	21	—	—
222110 1999 UW_{11}	15.5	X	86.36739	349.56395	47.49780	11.69598	0.0958689	0.19203893	2.9753852	21	—	—
222111 1999 UG_{12}	15.7	X	161.29917	301.14627	32.88377	10.41035	0.0889149	0.19700535	2.9251673	21	1 9.8	20.2
222112 1999 UZ_{17}	16.5	X	97.59229	248.16084	147.29759	2.50421	0.1237415	0.19557936	2.9393685	21	1 12.8	20.4
222113 1999 US_{19}	18.0	X	208.32853	272.19370	53.05959	3.11368	0.1254364	0.29182739	2.2510510	21	2 2.3	21.3
222114 1999 UY_{21}	16.5	X	218.39291	260.99810	44.49195	2.29721	0.1092971	0.19967574	2.8990287	21	2 1.3	21.0
222115 1999 UL_{28}	17.7	X	227.98264	288.45706	35.99012	4.46456	0.2016406	0.29646691	2.2275044	21	2 20.2	21.3
222116 1999 UF_{29}	16.8	X	153.42299	229.77394	106.00945	2.30080	0.1782948	0.19664903	2.9286997	21	1 11.1	21.3
222117 1999 UQ_{31}	16.4	X	223.11200	301.39873	33.57266	2.28701	0.0503022	0.20333594	2.8641337	21	3 14.7	20.6
222118 1999 UH_{37}	17.4	X	249.65384	168.80001	169.86496	1.53631	0.1964665	0.30061299	2.2069757	21	3 27.3	20.5
222119 1999 US_{37}	16.5	X	53.32557	35.00626	64.25529	2.95626	0.0883362	0.19753351	2.9199508	21	1 25.8	20.2
222120 1999 UF_{47}	15.2	X	143.89229	96.33948	235.95418	9.83977	0.1004116	0.19282326	2.9673113	21	—	—
222121 1999 VC_{51}	17.2	X	205.82874	81.30465	264.29996	4.03007	0.1962021	0.29420333	2.2389153	21	2 24.0	20.9
222122 1999 VZ_{55}	17.5	X	178.98787	305.23938	51.25470	3.21590	0.1801176	0.29176203	2.2513872	21	2 16.6	20.8
222123 1999 VG_{64}	15.7	X	51.80809	344.37504	52.20116	7.63391	0.1507443	0.18768152	3.0212619	21	—	—
222124 1999 VZ_{64}	17.3	X	203.18579	332.41408	52.89351	5.17584	0.1565333	0.29690770	2.2252992	21	4 15.9	20.7
222125 1999 VO_{76}	17.8	X	5.88425	275.04577	219.07907	6.45106	0.0625233	0.28308928	2.2971381	21	—	—
222126 1999 VE_{80}	16.6	X	183.39813	328.80947	38.24255	9.36139	0.1448527	0.29299460	2.2450687	21	3 7.1	20.0
222127 1999 VJ_{80}	15.3	X	136.60552	125.08882	218.03137	10.32250	0.1110709	0.19267747	2.9688078	21	—	—
222128 1999 VD_{86}	17.0	X	195.00088	34.07529	346.86149	1.76049	0.2505632	0.29619614	2.2288617	21	4 2.6	20.8
222129 1999 VM_{93}	15.2	X	196.39919	302.01225	29.77148	11.02073	0.1365015	0.20128913	2.8835169	21	2 15.7	20.0
222130 1999 VX_{93}	17.1	X	242.31009	140.10837	215.20540	4.29765	0.1746080	0.30040757	2.2079817	21	4 11.7	20.4
222131 1999 VT_{104}	17.2	X	79.21777	273.24986	223.45350	5.61362	0.1170636	0.29300519	2.2450146	21	4 12.7	19.5
222132 1999 VV_{104}	15.6	X	193.90954	298.66854	52.23567	10.24962	0.0413807	0.19936755	2.9020155	21	3 6.7	20.0
222133 1999 VV_{105}	17.0	X	129.10801	316.28981	61.61186	4.29068	0.1469309	0.28608040	2.2810982	21	1 16.1	19.6
222134 1999 VK_{112}	12.7	X	283.54666	27.99020	67.30463	6.95096	0.0353061	0.08468162	5.1358217	21	10 19.6	19.5
222135 1999 VH_{123}	16.5	X	153.63523	186.16641	180.79835	1.98897	0.0927372	0.19657196	2.9294652	21	2 8.4	20.8
222136 1999 VG_{126}	17.3	X	165.54089	259.61511	192.26892	2.87933	0.0335447	0.30200215	2.2002027	21	5 29.9	19.9
222137 1999 VP_{145}	17.1	X	152.60438	167.30743	221.63509	4.61551	0.1551040	0.29021539	2.2593790	21	2 25.9	20.2
222138 1999 VH_{150}	17.2	X	241.44401	323.27331	28.62798	2.65670	0.2404940	0.29956500	2.2121199	21	4 3.7	20.8
222139 1999 VQ_{150}	16.0	X	138.96362	89.24888	278.51444	0.92712	0.1006808	0.19593853	2.9357754	21	1 25.8	20.4
222140 1999 VR_{151}	17.1	X	186.45386	6.26254	48.30380	8.02326	0.1080846	0.29682404	2.2257173	21	5 6.1	19.9
222141 1999 VP_{209}	17.6	X	220.81884	238.60775	99.78481	3.04403	0.1671982	0.29384870	2.2407162	21	3 3.4	21.0
222142 1999 VY_{212}	16.5	X	9.61631	288.46554	160.97658	0.39701	0.1124636	0.18809247	3.0168597	21	—	—
222143 1999 WJ_{14}	17.0	X	249.22999	169.64312	71.66008	3.78822	0.1273180	0.28394124	2.2925408	21	—	—
222144 1999 WA_{15}	15.8	X	189.01062	319.79260	31.55740	12.63159	0.1970846	0.20297189	2.8675574	21	3 6.2	20.8
222145 1999 XV_{14}	16.0	X	1.34231	271.44038	242.15971	21.14794	0.2348129	0.28089782	2.3090702	21	—	—
222146 1999 XD_{49}	17.2	X	198.47583	106.35182	257.32021	4.62945	0.1739254	0.29340690	2.2429650	21	3 11.3	20.7
222147 1999 XD_{56}	16.8	X	125.48875	197.14101	249.19580	6.74989	0.0805858	0.29180669	2.2511576	21	3 31.6	19.6
222148 1999 XW_{62}	15.5	X	9.39924	187.40773	242.40121	9.04268	0.0553041	0.18419556	3.0592615	21	—	—
222149 1999 XA_{66}	15.9	X	31.18692	218.55733	243.81840	4.32837	0.2454770	0.18961206	3.0007196	21	—	—
222150 1999 XK_{133}	15.0	X	60.27884	7.02115	47.65041	12.91301	0.1073558	0.18665011	3.0323819	21	—	—
222151 1999 XP_{143}	17.1	X	278.26029	282.22142	64.27086	26.24737	0.1439592	0.39211103	1.8486868	21	5 12.8	19.1
222152 1999 XG_{184}	15.3	X	69.56452	62.33156	357.36133	6.41485	0.3093991	0.19097508	2.9864248	21	1 31.9	18.4
222153 1999 XT_{188}	16.4	X	109.07517	107.62040	308.36026	5.47888	0.1573539	0.28586762	2.2822300	21	2 9.6	18.8
222154 1999 XQ_{211}	15.5	X	39.77377	66.04027	350.08375	10.55513	0.1642780	0.18514268	3.0488193	21	—	—
222155 1999 XL_{226}	16.2	X	11.43954	19.54047	87.43432	3.84093	0.1755134	0.18502830	3.0500756	21	—	—
222156 1999 XD_{261}	15.2	X	55.28873	100.39286	257.79863	7.16877	0.1078620	0.18124183	3.0924101	21	12 29.5	19.6
222157 1999 YC_{4}	16.4	X	58.52835	120.57272	356.13529	22.70574	0.2318163	0.28354007	2.2947027	21	2 26.1	18.1
222158 1999 YL_{10}	17.4	X	352.71214	342.44521	186.59022	2.62707	0.1723171	0.28356903	2.2945464	21	—	—
222159 2000 AD_{9}	17.2	X	154.47604	18.53125	36.10937	4.42994	0.2062176	0.29100618	2.2552840	21	4 10.1	20.5
222160 2000 AT_{10}	15.1	X	50.87306	55.56192	53.64158	14.17937	0.1360662	0.19321873	2.9632610	21	2 14.0	18.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
222161 2000 AP_{23}	14.9	X	343.90123	347.05607	88.76472	10.71187	0.1353156	0.17940130	3.1135248	21	12 28.0	18.5
222162 2000 AD_{30}	15.3	X	297.30631	167.57039	305.78860	5.37785	0.2276846	0.17732801	3.1377462	21	11 14.8	18.9
222163 2000 AB_{55}	15.1	X	338.39126	334.68520	115.06111	19.34805	0.1737669	0.17911249	3.1168708	21	—	—
222164 2000 AM_{65}	15.0	X	9.20248	3.91432	104.94694	9.64779	0.1918924	0.18327242	3.0695260	21	—	—
222165 2000 AX_{93}	17.7	X	180.62794	234.29429	290.97167	23.32460	0.4807499	0.30016813	2.2091557	21	9 4.7	22.7
222166 2000 AU_{107}	15.1	X	14.26906	327.50033	109.50132	13.36813	0.2390077	0.18412656	3.0600258	21	—	—
222167 2000 AB_{111}	15.4	X	309.29393	208.79913	275.83987	7.91632	0.0411094	0.17937815	3.1137926	21	—	—
222168 2000 AH_{116}	15.0	X	325.88563	29.62936	129.73849	13.39386	0.2611695	0.18262936	3.0767272	21	—	—
222169 2000 AR_{152}	17.0	X	127.33755	155.08939	273.97813	18.87553	0.0887476	0.37835882	1.8932159	21	2 14.8	19.3
222170 2000 AC_{177}	15.1	X	339.81981	243.98972	250.32169	14.93922	0.2019357	0.18417653	3.0594823	21	—	—
222171 2000 AH_{208}	14.7	X	140.88765	166.31654	81.18675	11.84947	0.1775559	0.17830059	3.1263255	21	11 21.3	20.0
222172 2000 AM_{215}	15.8	X	51.85000	288.36928	112.37633	6.01389	0.1395882	0.18282547	3.0745265	21	—	—
222173 2000 AX_{236}	15.6	X	300.10323	186.11041	316.57917	4.35139	0.1288209	0.17785431	3.1315532	21	—	—
222174 2000 BN_{16}	16.8	X	10.27952	47.78775	93.59821	3.15657	0.1164548	0.27914047	2.3187513	21	—	—
222175 2000 BB_{24}	15.1	X	52.44903	333.16622	71.54233	11.07284	0.2032325	0.18271627	3.0757514	21	—	—
222176 2000 BR_{24}	15.2	X	350.35135	90.22687	25.47613	10.23464	0.1948072	0.18169972	3.0872126	21	—	—
222177 2000 BL_{29}	16.9	X	90.30372	114.70610	332.17428	6.23472	0.1908824	0.28348377	2.2950065	21	3 2.3	19.1
222178 2000 BA_{33}	16.8	X	258.73898	66.24015	144.68916	1.53593	0.1304913	0.27123867	2.3635691	21	—	—
222179 2000 BY_{34}	14.1	X	323.54621	62.93942	94.37937	27.25786	0.2288076	0.17903199	3.1178051	21	—	—
222180 2000 CM_{24}	15.1	X	354.55905	148.54752	306.13955	11.36478	0.1734895	0.18010002	3.1054667	21	—	—
222181 2000 CK_{28}	15.1	X	316.59381	293.39235	154.16881	17.46294	0.0982344	0.17311413	3.1884605	21	12 1.4	19.5
222182 2000 CW_{59}	16.5	X	223.77564	46.95634	167.76696	5.95947	0.1620866	0.26649316	2.3915457	21	—	—
222183 2000 CO_{61}	15.0	X	12.08785	165.15415	316.56518	14.57196	0.2495581	0.18340838	3.0680088	21	—	—
222184 2000 CO_{68}	17.5	X	278.99090	36.29019	142.90821	1.57562	0.1310407	0.27026391	2.3692488	21	—	—
222185 2000 CR_{72}	17.9	X	124.13678	310.61307	117.19155	2.13585	0.2543654	0.28691160	2.2766904	21	4 2.6	21.0
222186 2000 CX_{74}	16.7	X	130.95619	336.68926	319.55564	6.09898	0.1074353	0.26649821	2.3915154	21	—	—
222187 2000 CD_{88}	14.8	X	324.75066	304.09282	146.84839	18.05572	0.1376472	0.17402726	3.1772973	21	12 15.9	18.9
222188 2000 CQ_{113}	15.5	X	46.16576	119.88234	312.87017	4.29834	0.1490778	0.18539720	3.0460283	21	—	—
222189 2000 CX_{131}	16.1	X	324.66009	309.16161	157.35736	1.42195	0.1477355	0.17615109	3.1517069	21	—	—
222190 2000 DW_{5}	16.5	X	20.46944	125.19466	33.20593	23.64720	0.2565726	0.27949664	2.3167811	21	1 18.8	18.9
222191 2000 DL_{34}	17.3	X	2.58507	319.14558	175.90858	1.97543	0.1379624	0.27537759	2.3398265	21	—	—
222192 2000 DO_{35}	15.5	X	277.12836	329.64574	155.97192	5.77282	0.1343593	0.17218161	3.1999624	21	11 15.1	19.8
222193 2000 DG_{37}	15.1	X	345.57431	109.81827	345.11419	9.24483	0.1692274	0.17785655	3.1315268	21	—	—
222194 2000 DE_{55}	16.9	X	216.33343	60.55832	136.75834	1.97394	0.1661130	0.26219850	2.4175896	21	12 9.8	20.3
222195 2000 DW_{56}	15.5	X	275.48444	333.22511	167.68814	5.89614	0.1428644	0.17257520	3.1950952	21	11 29.9	19.8
222196 2000 DO_{66}	15.1	X	43.32993	63.73432	347.92199	5.28290	0.1612785	0.17876684	3.1208873	21	—	—
222197 2000 DA_{82}	14.7	X	252.59933	353.73807	127.73387	20.41289	0.1287187	0.16966584	3.2315169	21	10 17.2	19.7
222198 2000 DX_{85}	15.1	X	302.26245	123.68903	349.95189	18.35027	0.1977045	0.17509709	3.1643422	21	11 22.9	19.1
222199 2000 DL_{89}	15.6	X	354.66971	282.66258	142.01606	6.02256	0.1627339	0.17602201	3.1532475	21	—	—
222200 2000 DQ_{99}	16.6	X	313.89229	48.21144	100.65286	4.51518	0.1767899	0.27053722	2.3676529	21	—	—
222201 2000 DG_{101}	16.9	X	336.47449	117.63216	69.23392	3.87533	0.1846566	0.27628867	2.3346798	21	—	—
222202 2000 DP_{104}	16.5	X	197.50890	157.48475	68.27633	5.99952	0.1461120	0.26248385	2.4158372	21	12 27.4	20.0
222203 2000 DA_{115}	17.1	X	239.82425	247.57367	313.00961	1.52674	0.1748908	0.26649910	2.3915101	21	—	—
222204 2000 DX_{116}	15.3	X	349.51713	76.90737	330.34652	8.27680	0.1304835	0.17234723	3.1979121	21	11 27.1	19.3
222205 2000 DV_{117}	16.6	X	114.46620	57.13477	346.49343	7.63894	0.2934444	0.28025669	2.3125904	21	2 24.5	19.5
222206 2000 EE_{1}	16.5	X	222.33822	247.53777	319.70972	1.67433	0.1252955	0.26514985	2.3996162	21	—	—
222207 2000 EN_{3}	17.6	X	34.99610	107.84677	19.04479	2.57117	0.1627490	0.27808500	2.3246148	21	1 6.9	19.3
222208 2000 EX_{41}	17.0	X	307.05166	113.35829	38.51426	1.38876	0.1637287	0.26837816	2.3803342	21	—	—
222209 2000 EL_{49}	15.2	X	289.45982	94.81470	24.15121	16.70193	0.1979115	0.17212614	3.2006499	21	11 9.9	19.4
222210 2000 EX_{59}	17.3	X	236.12161	14.78503	174.21922	5.61943	0.1014445	0.26291392	2.4132019	21	—	—
222211 2000 EY_{95}	17.1	X	56.92200	288.13667	195.04911	1.68645	0.1542804	0.28040803	2.3117583	21	2 16.1	18.8
222212 2000 ET_{99}	18.0	X	18.26599	121.29363	357.09377	1.57931	0.1304169	0.27464660	2.3439764	21	—	—
222213 2000 EO_{100}	17.4	X	37.01400	228.72671	239.65939	0.92847	0.1959536	0.27634282	2.3343749	21	—	—
222214 2000 ET_{101}	17.3	X	314.60249	347.93116	193.83941	3.25256	0.0663926	0.27247509	2.3564135	21	—	—
222215 2000 ES_{121}	14.9	X	302.11406	123.52041	355.40502	26.77930	0.1906648	0.17526615	3.1623070	21	11 28.0	19.2
222216 2000 EB_{160}	15.0	X	44.90298	64.83345	334.32307	8.21840	0.1797682	0.17712133	3.1401868	21	—	—
222217 2000 EC_{168}	15.1	X	336.00209	103.01222	14.16657	15.76511	0.2950995	0.17933489	3.1142933	21	—	—
222218 2000 EC_{174}	14.9	X	333.01667	44.69047	86.89293	16.65425	0.2342385	0.17824546	3.1269701	21	—	—
222219 2000 FY_{3}	17.2	X	293.17875	284.34947	250.03507	1.42742	0.1160292	0.27060121	2.3672796	21	—	—
222220 2000 FP_{6}	17.1	X	115.71933	307.83017	15.32058	18.64839	0.1131573	0.35447738	1.9773203	21	—	—
222221 2000 FE_{14}	16.7	X	103.96355	209.80285	162.37802	24.47043	0.2358636	0.27418662	2.3465972	21	—	—
222222 2000 FK_{15}	15.7	X	351.86123	79.95952	30.53153	21.27528	0.0416288	0.26692278	2.3889788	21	—	—
222223 2000 FL_{20}	14.5	X	290.41759	123.85411	24.74238	16.09657	0.1729471	0.17362987	3.1821435	21	12 25.9	18.7
222224 2000 FA_{43}	16.6	X	214.03624	141.53034	76.96174	2.91369	0.1456141	0.26276313	2.4141250	21	—	—
222225 2000 FA_{56}	15.4	X	315.04954	104.69879	18.90937	15.99359	0.2009499	0.17436983	3.1731346	21	—	—
222226 2000 FV_{59}	16.3	X	356.30513	124.82663	54.51403	7.57795	0.1229027	0.27659946	2.3329307	21	1 18.9	18.8
222227 2000 GH	17.1	X	161.34908	191.08312	30.72791	3.12904	0.1432028	0.25551564	2.4595617	21	11 15.7	20.9
222228 2000 GO_{4}	14.4	X	308.87163	107.41793	37.21668	26.92976	0.2476650	0.17463922	3.1698705	21	—	—
222229 2000 GQ_{25}	16.5	X	288.48122	190.68078	9.43664	1.28497	0.1272944	0.26943602	2.3740997	21	—	—
222230 2000 GM_{34}	16.9	X	54.60551	68.48804	15.48678	5.37301	0.1971786	0.27347876	2.3506446	21	—	—
222231 2000 GH_{117}	17.3	X	198.67380	353.80686	237.70949	0.66092	0.1521940	0.26215034	2.4178857	21	—	—
222232 2000 GY_{117}	16.8	X	198.21045	206.72031	354.01715	7.36314	0.0667743	0.25975414	2.4327327	21	12 3.2	20.2
222233 2000 GA_{128}	17.1	X	248.46395	187.89011	349.52509	3.17997	0.1299700	0.26343455	2.4100214	21	12 30.7	20.0
222234 2000 GV_{132}	15.9	X	269.42514	85.43750	217.10863	12.02975	0.2743735	0.22724670	2.6595266	21	2 25.0	20.5
222235 2000 GT_{151}	16.6	X	157.75489	204.78221	26.00638	15.56041	0.1043173	0.25472739	2.4646332	21	11 20.9	20.5
222236 2000 GW_{171}	16.4	X	303.77108	147.92989	33.71170	12.59314	0.1197723	0.26987435	2.3715283	21	—	—
222237 2000 GO_{177}	17.2	X	279.76600	65.36197	137.67583	1.70112	0.1338294	0.26840398	2.3801815	21	—	—
222238 2000 HB_{6}	17.0	X	287.16122	160.32632	357.63334	1.28022	0.1308707	0.26368806	2.4084765	21	—	—
222239 2000 HN_{20}	16.3	X	34.37564	72.66657	33.74129	23.75243	0.2772348	0.27419484	2.3465503	21	—	—
222240 2000 HB_{84}	14.1	X	350.24629	33.86750	59.33670	25.85744	0.3950887	0.17899571	3.1182263	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
222241 2000 HY_{90}	14.1	X	283.53584	53.69170	86.30819	27.82779	0.2121463	0.17338764	3.1851065	21	12 3.3	18.2
222242 2000 JU_{34}	16.5	X	261.68072	180.82336	45.05756	7.23451	0.1262962	0.26648223	2.3916110	21	—	—
222243 2000 KE_{22}	16.7	X	203.93897	336.78154	257.91025	2.29346	0.1555195	0.25914507	2.4365430	21	—	—
222244 2000 LT_{21}	15.7	X	47.31804	68.56247	234.49028	11.67741	0.1857130	0.24161022	2.5530492	21	11 2.8	18.9
222245 2000 LN_{26}	16.5	X	326.36165	106.98799	200.34206	12.38343	0.2941541	0.23134388	2.6280324	21	5 12.3	19.2
222246 2000 NT_{6}	16.5	X	358.17248	125.71735	183.42418	3.31404	0.2545049	0.23551832	2.5968862	21	8 14.8	18.1
222247 2000 OC_{41}	15.8	X	263.51142	128.17549	240.22498	10.88849	0.2412499	0.22770588	2.6559499	21	5 18.5	19.8
222248 2000 OA_{58}	16.7	X	252.34316	5.11620	325.21977	3.45933	0.2926788	0.22245233	2.6976032	21	3 18.7	21.3
222249 2000 PP_{4}	16.4	X	303.55519	184.15030	162.65481	7.01996	0.2671759	0.23073667	2.6326410	21	6 4.2	19.8
222250 2000 QO_{28}	15.8	X	244.89933	344.26055	350.02384	12.44654	0.2043654	0.22021355	2.7158557	21	3 22.3	20.3
222251 2000 QN_{29}	15.7	X	253.67838	22.11401	355.93030	12.18488	0.1847323	0.22523410	2.6753459	21	5 23.6	20.1
222252 2000 QX_{34}	15.7	X	3.59388	326.01162	316.81265	11.72508	0.2250610	0.23317512	2.6142548	21	7 17.2	17.7
222253 2000 QD_{39}	16.1	X	291.54057	149.41410	158.35929	11.55382	0.2148845	0.22551941	2.6730891	21	4 7.5	20.0
222254 2000 QC_{66}	15.7	X	295.49873	290.69436	62.63505	7.07837	0.2493182	0.22828189	2.6514803	21	6 3.2	19.2
222255 2000 QJ_{67}	16.8	X	272.88262	245.31727	75.34107	5.34658	0.3177360	0.22333795	2.6904672	21	3 24.8	21.4
222256 2000 QK_{71}	16.0	X	287.68025	158.51054	185.14861	3.39791	0.2322315	0.22783811	2.6549222	21	5 14.8	19.8
222257 2000 QC_{116}	16.9	X	296.37491	359.63490	336.92122	1.78997	0.1547265	0.22755468	2.6571263	21	5 27.6	20.2
222258 2000 QU_{158}	15.8	X	297.42843	105.08490	187.47938	13.49207	0.2246965	0.22440634	2.6819209	21	3 21.1	19.6
222259 2000 QD_{165}	16.0	X	247.32950	73.25172	315.85223	11.95422	0.1967226	0.22603852	2.6689949	21	6 1.3	20.4
222260 2000 QT_{167}	15.4	X	191.76361	129.78393	316.77817	8.85422	0.3023579	0.22317225	2.6917987	21	6 23.8	20.5
222261 2000 QC_{171}	16.2	X	286.82812	116.29595	198.98597	6.90676	0.2248977	0.22429634	2.6827977	21	4 7.5	19.9
222262 2000 QY_{172}	16.3	X	259.63400	27.33149	317.75118	13.27299	0.2721310	0.22425024	2.6831654	21	4 6.5	21.0
222263 2000 QZ_{173}	15.8	X	232.40119	99.66361	274.21194	5.59789	0.1385569	0.22381107	2.6866742	21	5 2.7	20.1
222264 2000 QU_{175}	16.3	X	284.88273	134.36525	171.20191	12.33358	0.2572188	0.22408125	2.6845142	21	3 21.3	20.3
222265 2000 QK_{183}	15.7	X	280.63668	253.81487	141.08856	15.64807	0.2054381	0.23222503	2.6213803	21	7 16.9	19.2
222266 2000 QH_{193}	15.7	X	270.06526	217.44771	143.84381	13.77848	0.1884240	0.22700578	2.6614079	21	5 26.3	19.8
222267 2000 QB_{214}	16.3	X	265.85901	357.76904	357.31859	14.22103	0.1357057	0.22503001	2.6769633	21	5 11.1	20.4
222268 2000 RS_{1}	15.6	X	314.74199	124.01453	180.48501	13.18128	0.2700222	0.22651059	2.6652853	21	4 24.3	18.9
222269 2000 RL_{13}	16.0	X	241.02548	67.40483	300.75860	11.79864	0.1698635	0.22354371	2.6888160	21	4 28.6	20.5
222270 2000 RN_{39}	16.4	X	249.86286	68.23936	305.06996	11.70501	0.2927515	0.22392902	2.6857307	21	5 3.9	21.3
222271 2000 RJ_{49}	15.9	X	357.81259	60.31515	218.39825	7.68413	0.1467737	0.22916697	2.6446490	21	6 23.3	18.7
222272 2000 RD_{57}	16.4	X	140.67547	215.99200	247.98972	3.82765	0.0721306	0.21959281	2.7209714	21	5 21.9	20.3
222273 2000 RQ_{79}	15.8	X	245.28528	190.15150	211.97487	12.20610	0.2344618	0.22736095	2.6586355	21	6 13.5	20.3
222274 2000 RE_{83}	15.7	X	332.37577	31.84250	297.83424	11.09592	0.0671163	0.23023342	2.6364759	21	7 26.5	18.7
222275 2000 RW_{97}	15.2	X	302.70205	134.23748	264.62840	11.57535	0.2732268	0.23183187	2.6243431	21	8 9.9	18.3
222276 2000 SY_{6}	15.9	X	183.03577	198.24822	244.41763	12.81407	0.1097412	0.22343127	2.6897180	21	6 11.8	20.1
222277 2000 SW_{35}	15.8	X	340.91561	98.70594	178.42328	15.15035	0.1705459	0.22623942	2.6674147	21	5 18.6	18.9
222278 2000 SJ_{39}	15.6	X	312.72894	271.40485	28.12716	12.68045	0.2689795	0.22529328	2.6748775	21	4 13.3	19.0
222279 2000 SL_{41}	15.8	X	208.58607	321.05097	45.53384	7.19177	0.0799119	0.21722694	2.7406922	21	4 5.9	20.0
222280 2000 SU_{46}	15.6	X	291.97162	148.37263	224.57761	10.84072	0.2357084	0.23062435	2.6334957	21	6 26.7	19.1
222281 2000 SF_{55}	16.0	X	294.86775	320.12707	0.30907	12.58831	0.1061629	0.22436302	2.6822662	21	5 6.9	19.7
222282 2000 SS_{63}	16.2	X	286.14967	8.60588	354.45346	4.49441	0.0998701	0.22717150	2.6601134	21	6 28.4	19.6
222283 2000 SJ_{82}	15.6	X	321.36146	262.25016	31.89840	11.76785	0.1925157	0.22426345	2.6830600	21	4 30.2	18.7
222284 2000 SD_{92}	15.6	X	290.81456	115.47908	236.48762	12.03632	0.0733443	0.22826970	2.6515747	21	6 22.6	19.2
222285 2000 SF_{96}	15.7	X	288.49004	164.83179	218.26209	13.07065	0.1978400	0.23039624	2.6352336	21	7 10.3	19.4
222286 2000 SR_{103}	16.1	X	317.37784	329.79743	358.32436	9.14756	0.1508057	0.22755984	2.6570861	21	6 18.7	19.3
222287 2000 SM_{125}	15.7	X	273.16250	296.97497	56.11194	14.34112	0.1348186	0.22243639	2.6977321	21	5 22.4	19.5
222288 2000 SJ_{130}	15.6	X	272.42770	125.21383	258.70295	11.79775	0.1922935	0.22835452	2.6509181	21	6 23.4	19.4
222289 2000 SZ_{136}	15.5	X	275.23035	106.88135	210.30372	13.32636	0.1855247	0.22129004	2.7070408	21	4 1.0	19.6
222290 2000 SM_{151}	16.4	X	177.90716	20.66642	23.88667	10.35366	0.2518586	0.21539092	2.7562448	21	4 22.9	21.3
222291 2000 SY_{152}	15.9	X	271.73841	106.79816	209.07503	11.17647	0.2196798	0.21935243	2.7229589	21	3 22.9	20.3
222292 2000 SS_{166}	15.5	X	299.53478	64.92407	261.53733	6.41320	0.1514382	0.22464471	2.6800234	21	5 18.7	18.9
222293 2000 SP_{168}	15.8	X	239.08946	130.62535	222.35180	11.25572	0.1891435	0.21921531	2.7240942	21	4 10.2	20.3
222294 2000 SC_{175}	15.4	X	200.97881	167.11710	232.64304	12.76412	0.1648023	0.21824873	2.7321313	21	5 5.7	20.0
222295 2000 SJ_{191}	16.5	X	215.86824	6.28620	51.28682	5.74238	0.2507084	0.22276715	2.6950611	21	6 6.5	21.1
222296 2000 SU_{211}	16.1	X	236.72696	296.12939	51.97895	13.61180	0.2058925	0.21888153	2.7268629	21	4 7.9	20.7
222297 2000 SL_{245}	16.5	X	196.74450	128.34392	282.25352	1.51936	0.1797348	0.22094697	2.7098423	21	5 15.1	21.1
222298 2000 SO_{249}	15.6	X	107.72514	38.93553	165.91582	14.51892	0.0203075	0.22994434	2.6386851	21	8 15.9	19.2
222299 2000 SF_{252}	15.8	X	236.54521	273.82220	84.45502	5.93707	0.1258675	0.21967162	2.7203205	21	4 22.5	20.0
222300 2000 SD_{267}	16.2	X	289.76207	1.49402	353.09249	5.51308	0.0530694	0.22639771	2.6661712	21	6 29.4	19.7
222301 2000 SD_{273}	16.4	X	266.90176	359.86864	4.45544	4.51271	0.1716222	0.22383022	2.6865210	21	5 24.2	20.4
222302 2000 SP_{281}	16.2	X	251.14889	137.29544	200.36446	8.62598	0.1259791	0.22097102	2.7096457	21	4 9.2	20.2
222303 2000 SG_{284}	15.9	X	177.63400	115.19346	297.85483	7.61038	0.1701551	0.21756538	2.7378492	21	4 28.7	20.5
222304 2000 SN_{289}	16.0	X	277.20340	348.62483	303.04610	5.22336	0.0954730	0.21781933	2.7357208	21	3 12.8	20.0
222305 2000 SP_{290}	16.0	X	233.19044	116.12488	313.96676	3.17914	0.1985179	0.22618293	2.6678587	21	7 11.3	20.2
222306 2000 SU_{290}	15.5	X	15.61802	206.11358	1.98749	17.08317	0.0641472	0.21847508	2.7302439	21	4 11.2	19.0
222307 2000 SJ_{292}	15.6	X	272.65880	86.43189	265.47475	11.46209	0.1624624	0.22305540	2.6927387	21	5 15.8	19.7
222308 2000 SA_{298}	16.2	X	225.22800	150.76710	258.49149	4.72159	0.1667839	0.22344559	2.6896030	21	6 9.2	20.4
222309 2000 SJ_{299}	16.0	X	221.45582	78.94765	312.77523	4.55217	0.0783747	0.22149665	2.7053572	21	5 18.4	20.0
222310 2000 SP_{299}	15.7	X	210.35128	27.90834	354.23368	9.10141	0.1461950	0.21876079	2.7278662	21	4 20.2	20.2
222311 2000 SW_{308}	15.8	X	229.02939	117.56534	272.58665	7.62678	0.0920884	0.22103811	2.7090974	21	5 24.6	19.9
222312 2000 SU_{347}	15.8	X	267.25876	28.90141	318.93390	21.32339	0.0692349	0.22336665	2.6902367	21	5 9.9	20.1
222313 2000 SQ_{356}	15.4	X	341.68065	242.59916	72.79800	14.53293	0.0796820	0.22839502	2.6506047	21	7 22.9	18.7
222314 2000 SB_{366}	15.5	X	260.70349	55.13253	350.29778	13.94526	0.0886306	0.23027373	2.6361682	21	7 28.1	19.3
222315 2000 ST_{367}	16.2	X	259.76664	280.40636	102.57216	8.09058	0.1682748	0.22603936	2.6689883	21	6 11.6	20.1
222316 2000 SY_{371}	16.0	X	241.82519	339.56657	7.47340	7.52239	0.1885078	0.21782297	2.7356903	21	4 6.3	20.3
222317 2000 TE_{1}	15.2	X	142.72488	114.69673	22.60111	34.53799	0.3743474	0.21845327	2.7304256	21	8 9.8	21.0
222318 2000 TB_{13}	15.8	X	311.31920	107.02785	199.53069	11.38083	0.0262363	0.22196943	2.7015143	21	5 29.5	19.5
222319 2000 TF_{26}	16.7	X	202.34764	2.85741	27.45165	3.98776	0.0971577	0.21813650	2.7330683	21	4 26.3	20.7
222320 2000 TK_{44}	15.9	X	290.01382	205.25520	144.05015	12.45907	0.0605372	0.22662723	2.6643707	21	6 21.6	19.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
222321 2000 TP_{47}	16.4	X	237.41687	13.84631	56.17744	5.96916	0.1877982	0.22696850	2.6616993	21	7 17.1	20.5
222322 2000 TS_{57}	16.2	X	233.85354	249.02690	149.37143	6.34410	0.0844355	0.22442728	2.6817541	21	6 11.8	20.2
222323 2000 TE_{73}	16.4	X	188.17136	275.58993	96.87692	7.21443	0.1891992	0.21407020	2.7675697	21	3 27.1	21.1
222324 2000 UB_{14}	16.3	X	156.62058	62.49083	346.25516	7.86539	0.1643483	0.21312062	2.7757844	21	4 4.9	20.8
222325 2000 UH_{15}	15.6	X	256.45645	293.73481	69.32402	13.48822	0.1802726	0.22307257	2.6926006	21	5 13.4	19.8
222326 2000 UF_{18}	16.0	X	196.87588	255.33679	97.18024	6.78633	0.1932967	0.21246284	2.7815107	21	3 10.3	20.7
222327 2000 UW_{35}	15.8	X	252.17570	132.49350	220.15058	8.47649	0.1496710	0.21953156	2.7214774	21	4 26.9	19.8
222328 2000 UQ_{38}	15.7	X	211.36066	319.09506	31.47836	9.74665	0.1627561	0.21366058	2.7711058	21	3 20.3	20.3
222329 2000 UV_{64}	15.4	X	182.22611	279.40157	6.83267	9.65894	0.2773166	0.20536891	2.8452008	21	—	—
222330 2000 UD_{66}	15.9	X	263.89780	135.70626	222.26946	7.96805	0.1530280	0.22145281	2.7057142	21	5 16.5	19.7
222331 2000 UL_{72}	15.3	X	271.24050	128.42140	237.30690	13.80169	0.1144774	0.22221047	2.6995603	21	6 9.2	19.0
222332 2000 UT_{72}	15.3	X	336.56255	34.98784	242.32875	11.81371	0.1181530	0.22051814	2.7133543	21	5 14.3	18.5
222333 2000 UF_{80}	15.7	X	202.48816	141.09341	244.94313	12.47754	0.2320852	0.21494128	2.7600874	21	4 17.6	20.6
222334 2000 UK_{81}	16.3	X	216.66633	250.78126	149.66282	4.23298	0.2621092	0.21891883	2.7265532	21	5 18.5	21.1
222335 2000 UO_{92}	15.9	X	153.12720	55.91082	15.33658	15.09278	0.1156776	0.21554711	2.7549132	21	4 24.6	20.2
222336 2000 UG_{96}	15.8	X	164.10023	149.11709	261.28196	6.95268	0.2202112	0.21299697	2.7768586	21	4 16.8	20.5
222337 2000 UT_{98}	15.2	X	206.17837	112.27317	244.13877	11.64517	0.2316388	0.21357969	2.7718055	21	3 14.2	20.3
222338 2000 UN_{103}	16.2	X	202.65999	14.38576	31.43450	10.54639	0.3098608	0.21712048	2.7415880	21	5 11.2	21.3
222339 2000 VM_{3}	16.8	X	201.43789	115.46124	318.80292	11.82972	0.3769918	0.22052348	2.7133105	21	6 13.6	22.2
222340 2000 VU_{12}	16.1	X	210.05830	196.61563	225.20109	5.28702	0.0668732	0.22043723	2.7140181	21	6 15.7	20.0
222341 2000 VH_{51}	15.9	X	166.96464	45.83709	36.82234	13.39736	0.1429086	0.21704059	2.7422607	21	5 25.4	20.4
222342 2000 WX_{9}	16.1	X	161.88046	271.27249	206.87280	7.47091	0.2008052	0.21698898	2.7426955	21	7 7.4	20.8
222343 2000 WC_{10}	16.5	X	194.25696	114.35352	295.50103	2.44020	0.1753182	0.21622699	2.7491353	21	5 11.9	21.1
222344 2000 WS_{30}	15.4	X	260.93068	261.03392	82.51426	14.15751	0.2144575	0.21883757	2.7272281	21	4 24.4	19.9
222345 2000 WJ_{51}	16.4	X	292.00980	278.01379	51.63592	6.02261	0.0620541	0.21999291	2.7176713	21	5 27.1	19.8
222346 2000 WS_{65}	16.0	X	168.90824	170.37582	249.79010	2.79559	0.0927762	0.21354689	2.7720893	21	4 28.8	20.1
222347 2000 WX_{73}	16.4	X	190.59879	43.21018	4.48808	4.27967	0.1047015	0.21598371	2.7511993	21	5 5.3	20.8
222348 2000 WT_{76}	15.6	X	223.98465	95.48588	272.18407	5.12748	0.0735824	0.21521281	2.7577653	21	4 20.3	19.7
222349 2000 WR_{97}	15.6	X	209.56030	146.11583	260.07755	6.94087	0.2793435	0.21694632	2.7430550	21	5 18.0	20.5
222350 2000 WP_{100}	15.6	X	261.60488	232.96376	71.25680	5.39717	0.0472526	0.20989049	2.8041907	21	3 22.3	19.6
222351 2000 WL_{128}	16.2	X	259.28831	129.95272	236.62614	2.43972	0.1211155	0.22013239	2.7165232	21	5 26.1	19.9
222352 2000 WP_{128}	16.1	X	217.83213	356.42013	65.55609	4.56938	0.0761837	0.22028952	2.7152313	21	6 24.3	20.1
222353 2000 WX_{128}	15.2	X	331.69032	33.59551	239.73432	13.09197	0.1667397	0.21867598	2.7285715	21	4 21.9	18.5
222354 2000 WZ_{136}	15.7	X	136.79699	345.59912	78.00469	7.28925	0.0470091	0.21000524	2.8031691	21	3 28.3	19.7
222355 2000 WU_{146}	15.5	X	192.83297	259.40099	118.18782	13.14295	0.1802456	0.21347299	2.7727291	21	4 8.3	20.3
222356 2000 WL_{150}	15.5	X	288.12690	265.09748	39.78039	9.27746	0.1287656	0.21883217	2.7272730	21	4 11.4	19.3
222357 2000 WJ_{165}	15.4	X	236.06428	287.07098	81.90481	17.02134	0.1400269	0.21815154	2.7329427	21	5 7.7	19.8
222358 2000 WP_{181}	15.6	X	177.24115	269.26401	111.05810	25.13692	0.2312434	0.21280664	2.7785140	21	4 5.3	20.9
222359 2000 XN_{2}	16.5	X	146.96198	93.21515	320.60535	6.53685	0.2297954	0.21095821	2.7947208	21	4 6.7	21.1
222360 2000 XR_{11}	16.2	X	202.89185	237.18711	181.62311	15.54003	0.2594161	0.21872047	2.7282014	21	5 31.0	21.3
222361 2000 XB_{22}	15.9	X	181.95977	122.57667	275.35517	16.24291	0.1507541	0.21250552	2.7811382	21	4 10.1	20.7
222362 2000 XO_{23}	15.9	X	150.45059	65.62715	12.61532	10.84427	0.1967573	0.21244880	2.7816332	21	5 7.1	20.5
222363 2000 XH_{27}	15.4	X	228.18912	91.79006	321.60847	8.33682	0.1940426	0.21911480	2.7249273	21	6 15.4	19.9
222364 2000 XJ_{31}	15.5	X	216.41026	24.75788	46.51634	10.59144	0.1998203	0.21980768	2.7191979	21	6 26.6	20.1
222365 2000 XK_{31}	16.0	X	160.84176	11.58264	39.29896	8.63331	0.2350029	0.21091900	2.7950672	21	4 18.8	20.7
222366 2000 XM_{34}	15.5	X	198.00308	94.39857	8.30594	11.99323	0.1560734	0.21832459	2.7314984	21	7 25.5	20.1
222367 2000 XC_{42}	15.0	X	240.63443	92.38267	314.15829	16.12777	0.2456128	0.22129016	2.7070398	21	6 14.8	19.8
222368 2000 YD_{3}	16.1	X	296.59903	171.03526	70.70240	3.16207	0.0063987	0.20492098	2.8493454	21	2 19.8	20.0
222369 2000 YZ_{12}	15.2	X	60.18516	275.85505	197.64674	19.63665	0.2174470	0.20239018	2.8730494	21	3 5.3	18.6
222370 2000 YK_{56}	15.9	X	175.60829	317.37822	97.65665	15.58943	0.1583029	0.21167226	2.7884322	21	5 8.2	20.6
222371 2000 YH_{78}	15.5	X	216.00253	133.76115	277.71829	9.27637	0.2623844	0.21822544	2.7323257	21	5 29.7	20.3
222372 2000 YS_{80}	16.0	X	184.25090	311.98552	91.26905	10.07322	0.2939700	0.21332375	2.7740221	21	5 1.3	21.2
222373 2000 YQ_{122}	15.9	X	214.81666	269.73492	138.79918	10.45506	0.2590913	0.21833687	2.7313959	21	5 28.3	20.8
222374 2000 YV_{127}	15.6	X	329.18633	274.75516	292.30153	9.97915	0.0120822	0.20117847	2.8845742	21	2 12.9	19.7
222375 2000 YW_{132}	17.1	X	135.40824	181.43525	312.59453	4.79915	0.0312982	0.30869329	2.1682928	21	6 18.3	19.6
222376 2001 AC_{31}	15.0	X	247.72776	93.84606	290.92732	13.17134	0.2608139	0.21933130	2.7231337	21	5 21.3	19.7
222377 2001 BH_{8}	16.7	X	219.46141	23.99208	54.61648	3.77583	0.0795904	0.31336554	2.1466862	21	7 20.4	19.3
222378 2001 BE_{29}	15.1	X	352.46144	184.57253	285.59093	8.86318	0.0605089	0.19110816	2.9850383	21	—	—
222379 2001 BU_{56}	13.2	X	292.35611	148.07344	308.84988	1.85187	0.0889575	0.08345269	5.1861192	21	10 21.9	20.0
222380 2001 CN_{44}	15.0	X	359.96794	143.44445	64.51735	15.29569	0.1947615	0.19799464	2.9154152	21	3 25.7	18.4
222381 2001 DZ_{16}	15.3	X	1.80107	101.06735	15.77062	9.68788	0.1096671	0.18961884	3.0006480	21	—	—
222382 2001 DK_{23}	14.8	X	242.97607	236.63252	313.65859	26.03593	0.1604328	0.18233805	3.0800033	21	12 20.6	19.6
222383 2001 DZ_{47}	15.5	X	165.34865	289.18000	348.65342	9.42180	0.0799556	0.18336809	3.0684582	21	—	—
222384 2001 DO_{48}	12.4	X	317.89305	340.41800	91.69297	14.22414	0.0876164	0.08348368	5.1848355	21	11 1.5	19.1
222385 2001 DM_{61}	17.3	X	103.16896	321.14828	176.34863	1.56725	0.0684369	0.30436587	2.1887966	21	5 13.8	19.7
222386 2001 DL_{65}	15.2	X	66.15848	91.90519	326.43945	9.92924	0.0841778	0.19109949	2.9851285	21	—	—
222387 2001 DU_{66}	15.5	X	86.00992	282.00472	149.91872	10.47412	0.1001686	0.19556555	2.9395069	21	2 7.9	19.3
222388 2001 DZ_{72}	15.4	X	14.87575	302.90203	171.46906	9.94002	0.1113209	0.19076219	2.9886463	21	—	—
222389 2001 DA_{77}	18.0	X	350.69051	268.32175	172.15946	22.71535	0.2051211	0.42826699	1.7431161	21	—	—
222390 2001 DR_{97}	15.2	X	271.05323	37.31729	137.55278	13.30863	0.1035353	0.18396327	3.0618363	21	—	—
222391 2001 DT_{98}	15.5	X	249.60277	356.30645	170.77000	17.78468	0.2169493	0.18068911	3.0987133	21	11 22.5	20.3
222392 2001 EV	15.2	X	297.63951	136.83753	51.75439	6.55866	0.0719696	0.18666972	3.0321695	21	—	—
222393 2001 EY_{9}	16.9	X	140.97950	356.66958	117.18384	2.27891	0.1025013	0.30319751	2.1944160	21	6 4.6	19.8
222394 2001 EW_{10}	17.1	X	312.72788	187.52672	31.66684	5.13573	0.1597943	0.28883328	2.2665809	21	1 2.7	20.2
222395 2001 EA_{13}	17.1	X	45.31701	106.59298	138.36933	22.59018	0.0434886	0.40314541	1.8147978	21	7 25.4	18.3
222396 2001 EV_{23}	16.3	X	339.78122	325.64854	208.22314	0.53203	0.2307340	0.19165725	2.9793341	21	—	—
222397 2001 EM_{26}	17.4	X	353.93911	6.48929	177.84973	4.39852	0.1185969	0.29131549	2.2536873	21	1 16.2	19.7
222398 2001 FQ_{11}	15.3	X	279.50100	141.93183	34.76422	5.83576	0.1014049	0.18230208	3.0804084	21	—	—
222399 2001 FW_{12}	15.5	X	358.38601	98.76048	13.78565	8.97851	0.1025612	0.18603151	3.0391003	21	—	—
222400 2001 FJ_{15}	17.2	X	357.01407	53.67100	182.66169	2.09439	0.1220150	0.29673663	2.2261544	21	4 10.6	19.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
222401 2001 FV_{17}	15.0	X	186.83498	248.54203	5.91096	10.14070	0.0548529	0.17870380	3.1216212	21	—	—
222402 2001 FR_{26}	14.9	X	287.72697	151.38681	355.04561	11.27510	0.1541640	0.18060965	3.0996221	21	12 23.9	18.9
222403 Bethchristie	16.0	X	291.40729	256.93369	261.99373	0.68645	0.1160606	0.18251687	3.0779912	21	—	—
222404 2001 FQ_{47}	14.8	X	224.40041	170.54150	13.97109	27.40764	0.1097720	0.17481636	3.1677288	21	11 14.7	19.9
222405 2001 FZ_{61}	15.5	X	307.29461	125.75502	17.38383	5.98709	0.1257369	0.18444355	3.0565187	21	—	—
222406 2001 FH_{72}	15.0	X	280.33813	125.05141	56.01882	8.36085	0.2278326	0.18276898	3.0751601	21	—	—
222407 2001 FW_{90}	14.7	X	192.55381	212.45740	25.30075	29.09252	0.2025597	0.17528254	3.1621098	21	12 12.7	20.4
222408 2001 FA_{103}	15.1	X	198.53170	23.44985	176.44555	5.25476	0.1395374	0.17629043	3.1500460	21	11 16.1	20.1
222409 2001 FS_{104}	16.3	X	130.75420	68.83994	71.16431	4.64549	0.0773790	0.30466072	2.1873842	21	6 26.4	18.9
222410 2001 FB_{112}	15.3	X	259.47503	138.79483	32.90831	9.66900	0.0330422	0.17939310	3.1136197	21	—	—
222411 2001 FF_{130}	15.9	X	7.23060	144.97706	340.53226	4.56337	0.2419891	0.19132666	2.9827652	21	—	—
222412 2001 FB_{133}	15.5	X	301.05170	171.36784	3.39893	6.23986	0.1583165	0.18407636	3.0605821	21	—	—
222413 2001 FM_{156}	17.2	X	71.67468	14.34474	127.94904	4.35724	0.1015802	0.29652101	2.2272334	21	4 8.7	19.3
222414 2001 FU_{163}	15.9	X	340.07533	349.39950	162.16362	4.18655	0.1688299	0.18950665	3.0018322	21	—	—
222415 2001 FB_{172}	14.5	X	294.47661	136.26257	62.78217	22.95740	0.1012847	0.18490188	3.0514657	21	—	—
222416 2001 GU_{7}	16.6	X	152.63766	138.81010	123.10115	6.43669	0.1727811	0.26995074	2.3710808	21	12 28.3	20.4
222417 2001 HS_{32}	15.5	X	292.31728	114.83587	47.53343	7.78037	0.1901483	0.18105037	3.0945900	21	—	—
222418 2001 HM_{46}	16.5	X	183.55289	233.51053	28.32845	4.74652	0.2830460	0.27322353	2.3521083	21	—	—
222419 2001 JF_{11}	17.3	X	200.60967	88.56554	163.60309	5.41922	0.2309966	0.27392847	2.3480712	21	—	—
222420 2001 KW_{27}	16.5	X	146.04661	229.59385	56.36398	6.60009	0.2368415	0.26804411	2.3823114	21	—	—
222421 2001 KD_{52}	16.6	X	143.61629	214.97455	55.96272	5.58590	0.1879517	0.26889913	2.3772587	21	12 31.1	20.6
222422 2001 KL_{53}	17.4	X	173.60641	79.52083	205.79331	3.47751	0.1788950	0.27307225	2.3529769	21	—	—
222423 2001 KF_{71}	14.8	X	178.21716	187.28595	63.98018	10.38108	0.0719920	0.17392147	3.1785857	21	12 28.1	19.7
222424 2001 MO_{10}	16.7	X	97.63867	20.22003	315.82019	5.03682	0.1503923	0.26431209	2.4046841	21	—	—
222425 2001 OV	16.3	X	37.31338	256.24803	98.58708	7.83009	0.2424520	0.25708382	2.4495495	21	—	—
222426 2001 OX_{14}	16.5	X	246.51667	242.98509	326.36295	18.77649	0.0424366	0.36741812	1.9306150	21	—	—
222427 2001 OK_{38}	14.2	X	190.50369	251.83823	75.80193	9.86618	0.1925851	0.12577767	3.9451819	21	2 14.4	20.7
222428 2001 OB_{67}	16.6	X	58.57124	302.75491	51.31618	7.75818	0.2433140	0.25828704	2.4419362	21	—	—
222429 2001 OQ_{101}	15.7	X	213.08537	279.79442	325.57796	12.82351	0.1610536	0.27051260	2.3677966	21	—	—
222430 2001 PU_{10}	16.9	X	113.32038	304.50571	27.79261	2.37191	0.2159053	0.26463930	2.4027015	21	—	—
222431 2001 PG_{35}	17.0	X	67.57089	282.80337	43.59433	3.62164	0.2039089	0.25898009	2.4375777	21	12 31.3	20.7
222432 2001 PP_{53}	16.5	X	78.65228	343.54399	28.08512	6.25745	0.1561244	0.26346928	2.4098096	21	—	—
222433 2001 QB	17.4	X	102.79859	46.34784	277.86885	1.50648	0.2299889	0.26187104	2.4196046	21	—	—
222434 2001 QQ_{2}	15.3	X	271.65546	34.86325	337.61965	33.91811	0.3484584	0.23794034	2.5792335	21	5 1.2	20.4
222435 2001 QW_{4}	17.3	X	110.48874	57.52549	269.91224	1.29766	0.2071706	0.26338461	2.4103260	21	—	—
222436 2001 QU_{14}	16.5	X	144.28842	299.13230	322.84810	14.38713	0.1757534	0.26169000	2.4207204	21	12 20.7	20.7
222437 2001 QZ_{19}	16.4	X	47.24247	336.54524	30.13004	1.93144	0.1823037	0.25693337	2.4505056	21	—	—
222438 2001 QQ_{44}	16.9	X	53.59577	210.58635	136.05727	6.96081	0.1880123	0.25772100	2.4455104	21	—	—
222439 2001 QW_{46}	17.1	X	89.91792	334.70961	358.80578	1.03214	0.2004369	0.26120783	2.4236985	21	—	—
222440 2001 QY_{59}	17.1	X	152.87002	72.62981	320.80554	19.72304	0.0872991	0.37671433	1.8987216	21	2 10.1	18.8
222441 2001 QD_{91}	17.5	X	169.13655	151.41836	208.23613	20.73613	0.0757083	0.37348440	1.9096528	21	1 7.5	20.1
222442 2001 QM_{100}	17.3	X	302.08257	260.03308	15.51575	21.13261	0.0992186	0.38141416	1.8830919	21	3 9.5	19.5
222443 2001 QH_{107}	17.3	X	149.59168	124.33317	264.44817	20.07543	0.0785243	0.37412474	1.9074731	21	1 21.0	19.5
222444 2001 QJ_{121}	16.4	X	327.33052	173.18987	130.44830	6.72965	0.1257989	0.24122367	2.5557759	21	6 4.8	19.4
222445 2001 QF_{152}	15.6	X	239.96900	88.43692	323.35090	27.61800	0.3602185	0.23390280	2.6088299	21	6 13.2	20.8
222446 2001 QN_{160}	17.6	X	30.80352	51.28332	327.79291	0.79302	0.1946003	0.25662129	2.4524920	21	—	—
222447 2001 QL_{165}	16.1	X	143.86631	300.15352	87.40129	7.40799	0.1019088	0.27448380	2.3449031	21	2 14.4	19.3
222448 2001 QJ_{170}	16.4	X	121.09940	234.14522	238.06379	19.83651	0.0902903	0.37615913	1.9005894	21	4 26.2	18.3
222449 2001 QR_{173}	16.1	X	31.26877	165.69067	270.16991	8.17814	0.1955173	0.26306335	2.4122879	21	—	—
222450 2001 QM_{210}	14.6	X	216.09838	155.40250	164.29023	4.23194	0.2626646	0.12510917	3.9592228	21	2 19.8	21.3
222451 2001 QH_{214}	17.2	X	57.43431	128.00060	226.73457	0.45951	0.2007450	0.25737328	2.4477125	21	—	—
222452 2001 QL_{252}	16.7	X	37.43737	11.07432	6.41294	6.22083	0.2435899	0.25720097	2.4488056	21	—	—
222453 2001 QW_{253}	16.2	X	310.22901	11.96925	4.80670	9.24374	0.2125790	0.24554917	2.5256727	21	8 12.6	18.8
222454 2001 QM_{279}	14.8	X	207.16264	275.00257	34.28438	10.28815	0.2571492	0.12509009	3.9596255	21	2 6.9	21.6
222455 2001 QH_{292}	16.1	X	227.41268	106.66677	281.41831	2.46191	0.2186934	0.23120924	2.6290525	21	5 11.6	20.5
222456 2001 RR_{7}	17.1	X	37.54196	181.40512	191.68087	6.12372	0.2031501	0.25725356	2.4484719	21	—	—
222457 2001 RD_{14}	17.0	X	92.65520	132.23164	289.13709	0.60304	0.1619989	0.27021785	2.3695181	21	1 27.1	19.2
222458 2001 RL_{25}	16.7	X	317.59364	138.03980	284.36813	2.12997	0.1769312	0.25061557	2.4915180	21	11 9.1	18.9
222459 2001 RO_{27}	16.7	X	21.32769	247.85638	171.41697	4.94760	0.0888195	0.26001178	2.4311254	21	—	—
222460 2001 RW_{34}	16.2	X	132.11248	77.88936	243.86633	3.89974	0.0950501	0.26485771	2.4013804	21	—	—
222461 2001 RR_{47}	17.2	X	202.42349	255.78737	2.54583	19.41675	0.0811488	0.36485385	1.9396503	21	—	—
222462 2001 RC_{80}	16.4	X	43.42289	331.54733	8.36282	3.88205	0.2036272	0.25323873	2.4742826	21	12 21.1	19.8
222463 2001 RN_{82}	15.9	X	103.95676	81.84694	243.77397	6.32384	0.0952484	0.26006825	2.4307735	21	—	—
222464 2001 RH_{84}	16.9	X	37.05085	126.98183	225.85612	1.92162	0.0837724	0.25416909	2.4682410	21	12 12.4	19.8
222465 2001 RG_{98}	17.0	X	308.75452	220.78567	190.36037	14.04197	0.0973011	0.24642903	2.5196573	21	10 12.9	19.8
222466 2001 RP_{103}	16.3	X	79.48846	309.53758	16.43956	8.39746	0.1409220	0.25757896	2.4464093	21	—	—
222467 2001 RA_{106}	16.8	X	16.63805	302.24140	94.62951	3.74952	0.1960337	0.25564843	2.4587100	21	—	—
222468 2001 RB_{110}	17.8	X	29.29924	293.82207	33.92812	1.59149	0.2249226	0.25125851	2.4872658	21	11 19.3	20.7
222469 2001 RW_{126}	16.3	X	34.11208	356.50955	40.31287	5.70007	0.0873561	0.25868381	2.4394386	21	—	—
222470 2001 RX_{154}	16.3	X	32.90799	24.87150	36.63662	7.08342	0.0966440	0.26182750	2.4198728	21	—	—
222471 2001 SF_{14}	16.8	X	291.56966	332.50035	13.49662	3.67678	0.2603384	0.23890369	2.5722952	21	5 16.2	20.2
222472 2001 SC_{15}	16.3	X	349.69079	32.38132	3.61323	10.56608	0.1484567	0.25153030	2.4854737	21	12 3.9	19.0
222473 2001 SN_{18}	14.5	X	199.57466	322.40920	12.80332	9.60957	0.1450958	0.12396580	3.9835302	21	3 1.5	20.8
222474 2001 SE_{21}	16.6	X	333.23292	307.71812	20.07761	14.48713	0.3126434	0.24253702	2.5465411	21	6 24.3	18.9
222475 2001 ST_{55}	15.6	X	291.99727	356.10014	39.75942	13.06183	0.2081851	0.24078151	2.5589038	21	8 10.9	18.9
222476 2001 SN_{82}	16.3	X	203.62723	45.66301	186.73305	8.64021	0.0369909	0.26227387	2.4171264	21	—	—
222477 2001 SG_{84}	17.0	X	28.41104	176.78787	198.43652	4.80700	0.1894490	0.25536900	2.4605032	21	—	—
222478 2001 SE_{87}	16.7	X	4.40791	133.68527	298.36708	3.38498	0.1761001	0.25867174	2.4395145	21	—	—
222479 2001 SH_{89}	17.2	X	40.85015	2.65693	321.24393	5.41345	0.1225140	0.25166606	2.4845798	21	11 12.5	20.3
222480 2001 SV_{91}	17.0	X	162.92670	53.67910	203.11845	4.63152	0.0800233	0.25935383	2.4352354	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
222481 2001 SZ_{107}	15.3	X	295.96526	180.73053	249.82628	8.57213	0.2683770	0.24244234	2.5472040	21	9 16.1	18.0
222482 2001 SX_{109}	16.8	X	263.41040	86.23692	218.74046	21.10774	0.1206923	0.37601260	1.9010832	21	2 11.4	19.9
222483 2001 SH_{122}	17.2	X	76.05711	110.63969	233.83714	4.19081	0.1166506	0.25808896	2.4431854	21	—	—
222484 2001 SW_{134}	17.5	X	315.67774	128.25345	192.81430	4.55443	0.3129170	0.24004777	2.5641156	21	5 8.5	20.3
222485 2001 SH_{147}	16.3	X	266.45885	39.49919	11.46999	21.94317	0.0616963	0.24075657	2.5590806	21	8 24.3	20.0
222486 2001 SP_{154}	16.0	X	62.56650	331.77563	9.48583	6.62051	0.1561676	0.25470492	2.4647781	21	—	—
222487 2001 SZ_{165}	17.2	X	2.89126	157.97368	288.29191	0.39254	0.1610042	0.25963124	2.4335004	21	—	—
222488 2001 SF_{174}	14.6	X	211.35688	238.91335	80.18551	3.98212	0.2099341	0.12445331	3.9731206	21	2 18.8	21.1
222489 2001 SO_{181}	17.4	X	64.24331	213.12835	127.46042	2.30043	0.1965875	0.25789057	2.4444383	21	—	—
222490 2001 SA_{227}	15.0	X	199.96913	206.16250	133.28442	3.47346	0.2706660	0.12423894	3.9776896	21	3 3.5	21.8
222491 2001 SJ_{234}	16.8	X	355.90874	353.73858	51.86087	3.37105	0.0780674	0.25199433	2.4824215	21	12 22.4	19.5
222492 2001 SF_{246}	17.4	X	336.89801	315.35996	19.20962	5.94799	0.2746733	0.24262562	2.5459211	21	7 27.8	19.1
222493 2001 SC_{249}	15.8	X	85.29506	203.41560	29.32912	14.79231	0.1228847	0.24100508	2.5573210	21	9 17.1	19.5
222494 2001 SV_{251}	16.9	X	343.46369	189.17769	190.59510	3.93194	0.1916951	0.24677045	2.5173327	21	11 2.6	18.8
222495 2001 SJ_{264}	17.7	X	151.39171	222.07974	203.18545	21.88929	0.1060771	0.37675225	1.8985942	21	3 30.2	19.7
222496 2001 SC_{276}	16.7	X	154.98589	87.05242	289.39955	18.62402	0.1018675	0.37072924	1.9191024	21	1 20.1	18.5
222497 2001 SJ_{282}	16.0	X	230.96489	86.65217	345.66459	27.38354	0.3755995	0.23270108	2.6178039	21	7 5.8	21.3
222498 2001 SQ_{293}	17.7	X	309.53548	31.63522	14.41656	2.44417	0.1898037	0.24616115	2.5214849	21	9 25.8	19.8
222499 2001 SN_{302}	17.3	X	22.06145	304.03174	346.62065	1.59111	0.1681224	0.24450492	2.5328588	21	9 4.1	19.6
222500 2001 SF_{313}	16.7	X	67.23448	306.82311	57.03890	7.03886	0.1178335	0.25812722	2.4429440	21	—	—
222501 2001 ST_{315}	15.8	X	332.65103	43.68284	333.38934	9.19745	0.2005054	0.24370667	2.5383866	21	9 27.4	17.9
222502 2001 TK_{5}	16.2	X	345.67304	346.21277	56.94128	6.64158	0.1058857	0.25246636	2.4793264	21	12 5.0	18.7
222503 2001 TE_{9}	15.8	X	307.71807	86.26572	313.45823	6.42983	0.1929204	0.24143037	2.5543170	21	9 8.2	18.4
222504 2001 TQ_{11}	16.9	X	319.40534	231.92303	204.00663	6.22745	0.1400358	0.25037726	2.4930986	21	12 5.8	19.3
222505 2001 TJ_{13}	17.1	X	69.05806	240.15861	201.11245	20.09391	0.0951653	0.36698387	1.9321377	21	—	—
222506 2001 TN_{13}	16.8	X	156.67040	170.75722	210.26387	21.54427	0.0892799	0.37096107	1.9183028	21	1 22.4	19.5
222507 2001 TV_{15}	15.5	X	147.76885	91.32313	36.65007	21.80943	0.0519872	0.23512222	2.5998019	21	6 28.1	19.6
222508 2001 TS_{25}	17.2	X	267.51872	93.01059	289.33214	3.18694	0.2466600	0.23712324	2.5851553	21	6 8.6	21.0
222509 2001 TR_{44}	16.2	X	310.89609	82.39122	350.08271	7.30739	0.3160500	0.24260449	2.5460689	21	10 18.8	17.9
222510 2001 TJ_{46}	17.2	X	272.61729	29.41379	236.77089	19.29606	0.0548101	0.37097061	1.9182699	21	1 6.5	19.7
222511 2001 TX_{47}	15.9	X	336.84577	318.74109	54.43279	15.97187	0.1544063	0.24519265	2.5281204	21	10 14.0	18.5
222512 2001 TU_{56}	17.1	X	196.40752	101.65338	216.36695	20.69517	0.0468737	0.36689665	1.9324439	21	—	—
222513 2001 TM_{66}	16.6	X	261.96477	25.84853	40.15714	4.03832	0.2037012	0.23883978	2.5727540	21	8 6.9	20.1
222514 2001 TA_{86}	16.9	X	342.86908	93.98564	217.57914	7.60119	0.2604222	0.24184547	2.5513933	21	7 1.8	18.8
222515 2001 TN_{90}	16.1	X	11.14891	81.58594	236.14068	7.37249	0.2437993	0.24572697	2.5244542	21	10 1.9	18.4
222516 2001 TX_{102}	16.7	X	285.38375	24.21350	7.30782	17.72589	0.1920105	0.23919304	2.5702203	21	7 29.3	20.3
222517 2001 TY_{128}	14.6	X	222.49007	116.53594	193.68835	8.93168	0.0979823	0.12357150	3.9919997	21	2 18.3	20.7
222518 2001 TQ_{139}	16.9	X	42.33372	258.71460	68.77100	5.03865	0.1452369	0.25219741	2.4810887	21	11 25.1	19.9
222519 2001 TF_{149}	16.6	X	4.14706	228.19806	77.17369	6.60545	0.2483114	0.24304536	2.5429890	21	9 1.2	18.5
222520 2001 TD_{160}	14.6	X	196.87167	296.19125	31.08292	8.27690	0.2755929	0.12322140	3.9995577	21	2 19.1	21.4
222521 2001 TH_{161}	14.3	X	269.87631	264.97851	2.20249	9.31222	0.1862245	0.12617758	3.9368415	21	2 11.7	20.3
222522 2001 TR_{166}	15.6	X	243.71889	196.32646	263.48580	13.53570	0.0660237	0.24111417	2.5565496	21	9 9.0	19.4
222523 2001 TP_{175}	16.5	X	30.23386	148.95773	208.22690	10.90539	0.2899372	0.25297801	2.4759823	21	—	—
222524 2001 TW_{198}	16.4	X	327.32115	270.32336	33.51143	16.39367	0.2749718	0.23973578	2.5663397	21	5 7.2	18.9
222525 2001 TB_{228}	16.4	X	90.99530	220.56011	359.79918	4.51614	0.1174942	0.24100539	2.5573188	21	9 1.0	19.9
222526 2001 UX	17.1	X	232.64413	272.51018	35.59336	22.10219	0.0741873	0.37215228	1.9142071	21	1 29.5	20.0
222527 2001 UL_{2}	17.3	X	127.92230	193.93527	219.92882	22.87320	0.1349038	0.37156787	1.9162137	21	2 3.4	19.9
222528 2001 UJ_{11}	17.6	X	80.23400	47.74185	41.01309	21.41117	0.0901599	0.36793761	1.9287973	21	1 7.7	19.6
222529 2001 UY_{23}	15.8	X	245.32155	154.45858	329.32272	8.98472	0.2051419	0.24392423	2.5368771	21	9 27.8	19.5
222530 2001 UP_{33}	17.2	X	312.45763	300.23276	85.29917	6.22402	0.2453410	0.24259084	2.5461645	21	8 24.4	19.5
222531 2001 UC_{41}	16.6	X	108.57802	284.92431	94.64666	3.15294	0.1897674	0.26405660	2.4062349	21	—	—
222532 2001 UT_{45}	16.4	X	274.44881	16.15822	65.05910	4.29914	0.1224605	0.24301130	2.5432267	21	9 27.7	19.5
222533 2001 UY_{46}	16.6	X	206.37810	276.16184	122.87794	4.91565	0.2238217	0.22912025	2.6450085	21	5 9.9	21.1
222534 2001 UD_{64}	16.4	X	357.72136	111.74274	223.17221	15.59376	0.2313778	0.24524988	2.5277271	21	9 22.7	18.8
222535 2001 UP_{74}	16.5	X	330.46009	135.19353	196.03082	8.56149	0.1789889	0.23918304	2.5702920	21	7 13.1	19.2
222536 2001 UR_{136}	17.3	X	199.41839	1.23587	7.65633	20.30875	0.0824278	0.37880028	1.8917447	21	3 13.2	19.5
222537 2001 UH_{140}	16.9	X	75.34681	265.36144	52.51694	7.96697	0.1715245	0.25295672	2.4761212	21	12 23.8	20.6
222538 2001 UG_{170}	16.3	X	188.13174	135.78527	262.19450	3.40622	0.1066721	0.22631745	2.6668015	21	4 19.7	20.4
222539 2001 UE_{171}	15.6	X	147.76456	253.60670	235.23354	13.06644	0.0765042	0.23086930	2.6316326	21	6 30.5	19.6
222540 2001 UA_{173}	16.6	X	358.03038	93.20248	207.22814	8.14095	0.1624206	0.23905892	2.5711816	21	7 25.9	19.1
222541 2001 UQ_{175}	15.1	X	324.26098	344.13209	62.11142	7.62468	0.3260601	0.24013688	2.5634812	21	10 21.9	16.3
222542 2001 UX_{196}	17.1	X	352.72119	272.08275	64.52171	7.71047	0.2859754	0.24602126	2.5224407	21	9 28.5	18.6
222543 2001 UX_{215}	17.2	X	238.67057	67.72361	34.80872	4.83580	0.2133261	0.23876731	2.5732746	21	8 28.4	21.1
222544 2001 UD_{219}	15.7	X	44.04637	78.07499	227.13217	11.73703	0.1327996	0.24278299	2.5448208	21	10 23.8	18.8
222545 2001 UZ_{219}	16.9	X	238.62506	161.66502	325.66246	3.24310	0.0986764	0.24382395	2.5375726	21	10 11.2	20.4
222546 2001 VS_{2}	17.3	X	81.79574	275.79159	225.71740	19.80493	0.0692105	0.37465574	1.9056704	21	3 31.4	19.1
222547 2001 VX_{2}	17.1	X	96.78728	12.77506	46.78133	23.53547	0.0758498	0.36511858	1.9387126	21	—	—
222548 2001 VE_{4}	15.8	X	255.81187	352.02417	75.34568	12.71966	0.1390168	0.23379266	2.6096492	21	8 12.8	19.6
222549 2001 VH_{9}	16.2	X	247.32755	317.29190	126.14376	4.04926	0.1883332	0.23676682	2.5877490	21	8 13.8	20.1
222550 2001 VT_{11}	16.1	X	317.65147	322.44098	33.90764	18.36950	0.2379154	0.23980556	2.5658419	21	7 24.3	19.1
222551 2001 VB_{13}	16.6	X	283.22156	352.57033	42.77279	4.45370	0.1966425	0.23776340	2.5805129	21	7 24.6	20.0
222552 2001 VJ_{13}	17.2	X	47.21478	76.15110	39.29654	21.40805	0.1057708	0.36512362	1.9386947	21	—	—
222553 2001 VQ_{24}	16.8	X	300.65174	215.74951	226.17861	2.09097	0.2140377	0.24485142	2.5304687	21	10 27.9	19.0
222554 2001 VN_{26}	16.8	X	291.26982	117.93223	345.94922	0.37872	0.1706409	0.24604884	2.5222521	21	11 17.2	19.3
222555 2001 VA_{28}	15.9	X	279.42010	351.21168	44.52066	5.33969	0.2145499	0.23728136	2.5840067	21	7 16.7	19.3
222556 2001 VB_{32}	16.0	X	264.10935	114.00859	266.76980	4.24868	0.1007180	0.23232254	2.6206467	21	6 22.3	19.6
222557 2001 VN_{34}	15.8	X	323.00033	131.44293	235.95810	4.62446	0.1663292	0.23943524	2.5684868	21	8 24.0	18.3
222558 2001 VS_{36}	16.6	X	308.88234	165.90125	251.40532	2.51118	0.1389469	0.24248115	2.5469323	21	10 15.4	19.1
222559 2001 VS_{40}	16.7	X	280.00136	118.30275	282.74872	3.37001	0.2089092	0.23729940	2.5838757	21	7 24.3	20.1
222560 2001 VY_{46}	15.5	X	282.41584	345.04696	78.20167	15.14584	0.2078274	0.23764820	2.5813468	21	9 5.9	19.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
222561 2001 VG_{62}	17.0	X	250.28405	205.04977	257.65288	4.95694	0.2478812	0.23962530	2.5671285	21	8 31.9	20.9
222562 2001 VU_{65}	16.8	X	290.04641	46.47244	32.97906	6.90104	0.2140247	0.24277891	2.5448493	21	10 4.9	19.3
222563 2001 VK_{66}	15.8	X	257.89878	178.27826	252.26912	7.98719	0.1393850	0.23750384	2.5823927	21	8 11.9	19.6
222564 2001 VF_{70}	16.8	X	266.56119	79.54789	14.64692	7.60201	0.1175355	0.24184785	2.5513766	21	10 2.8	20.1
222565 2001 VK_{84}	16.4	X	275.91545	96.42861	56.38138	8.37353	0.0328772	0.25372913	2.4710934	21	—	—
222566 2001 VR_{84}	15.7	X	48.19301	302.62491	2.06068	12.56072	0.1415397	0.24616983	2.5214256	21	10 27.6	19.0
222567 2001 VP_{85}	17.2	X	262.85251	66.22182	348.63838	2.59760	0.1702904	0.23745129	2.5827737	21	7 27.7	20.6
222568 2001 VR_{85}	16.4	X	226.82354	193.42815	268.16266	4.15212	0.1245872	0.23749780	2.5824365	21	8 19.9	20.2
222569 2001 VD_{95}	16.3	X	270.52501	336.78001	114.41263	14.65439	0.2015734	0.24051888	2.5607662	21	9 27.2	19.8
222570 2001 VJ_{96}	15.9	X	292.58680	350.83314	105.35580	15.24991	0.2169190	0.24457537	2.5323724	21	11 8.8	18.7
222571 2001 VT_{107}	15.6	X	28.77478	39.75262	257.61687	9.89663	0.1179621	0.23977160	2.5660841	21	9 12.0	18.9
222572 2001 VE_{114}	16.5	X	271.92515	29.89651	31.91579	4.80378	0.2391263	0.23820967	2.5772890	21	8 8.8	20.0
222573 2001 VB_{121}	16.4	X	231.01951	64.97295	64.25745	4.95354	0.2375792	0.23691129	2.5866969	21	9 21.4	20.5
222574 2001 VP_{121}	16.2	X	249.22849	328.58887	116.71737	4.37650	0.2004038	0.23814455	2.5777588	21	8 17.4	19.8
222575 2001 VV_{122}	16.0	X	269.13999	63.67661	5.61162	14.75284	0.2114108	0.23680952	2.5874379	21	8 23.6	19.7
222576 2001 VX_{125}	16.6	X	16.98154	255.98107	55.98598	2.94361	0.1442522	0.24138587	2.5546308	21	9 24.2	19.2
222577 2001 WA	15.8	X	202.82239	182.17069	269.36616	5.28598	0.1142999	0.23193645	2.6235542	21	7 13.6	19.9
222578 2001 WX_{5}	16.1	X	82.98517	340.58204	242.27402	9.57119	0.0623358	0.23604288	2.5930374	21	8 11.3	19.8
222579 2001 WF_{6}	17.0	X	279.79287	245.88762	218.92499	4.86046	0.2012110	0.24552872	2.5258129	21	10 23.9	19.5
222580 2001 WT_{12}	16.0	X	313.81653	295.57744	87.88920	14.08593	0.2128400	0.24087171	2.5582649	21	9 2.7	18.7
222581 2001 WW_{18}	16.7	X	229.98138	94.88349	27.78932	4.39825	0.2636770	0.23962629	2.5671214	21	9 8.9	20.8
222582 2001 WO_{23}	15.7	X	178.99278	224.07644	266.59187	11.88085	0.1904230	0.22982050	2.6396329	21	8 4.0	20.2
222583 2001 WT_{30}	15.7	X	3.94628	217.08878	70.26218	11.67140	0.1103833	0.23535600	2.5980801	21	7 20.9	18.6
222584 2001 WR_{35}	16.2	X	252.25552	349.99068	80.69948	8.74263	0.1381412	0.23661711	2.5888405	21	8 11.6	19.9
222585 2001 WC_{42}	17.0	X	244.67801	41.91422	71.88057	5.32617	0.0884516	0.24266766	2.5456271	21	10 6.6	20.4
222586 2001 WW_{43}	17.0	X	321.77359	252.37996	115.73932	1.32150	0.1396663	0.24086494	2.5583129	21	8 28.8	19.5
222587 2001 WH_{44}	14.6	X	112.49582	52.08256	63.48783	6.02005	0.1560267	0.12317807	4.0004955	21	5 19.5	20.5
222588 2001 WX_{46}	15.9	X	282.66180	86.49558	251.12732	6.93599	0.1326949	0.22964776	2.6409565	21	5 13.6	19.6
222589 2001 WB_{49}	16.9	X	323.91188	57.22714	326.67205	1.09160	0.2009380	0.24140693	2.5544822	21	9 26.4	19.4
222590 2001 WE_{68}	16.3	X	41.56316	223.43952	50.22293	7.75115	0.1048173	0.23933560	2.5691996	21	9 7.3	19.5
222591 2001 WG_{101}	17.3	X	303.86592	350.11685	56.24129	2.40886	0.1683938	0.24182596	2.5515306	21	9 18.3	19.8
222592 2001 XJ_{2}	16.0	X	239.66134	85.95657	25.68226	27.64901	0.1734833	0.23902181	2.5714477	21	9 25.3	20.0
222593 2001 XJ_{4}	16.9	X	140.51575	72.38457	259.98215	18.51690	0.0746527	0.35973081	1.9580223	21	—	—
222594 2001 XM_{4}	17.0	X	55.85460	294.60843	89.37065	23.86180	0.0948633	0.35334729	1.9815341	21	—	—
222595 2001 XP_{4}	16.6	X	322.48062	71.06512	79.31570	23.66081	0.0856803	0.35550546	1.9735064	21	—	—
222596 2001 XB_{6}	15.8	X	345.12721	129.46475	222.12632	2.50990	0.1112155	0.23910504	2.5708509	21	9 17.5	18.5
222597 2001 XE_{7}	16.9	X	338.34277	172.74656	197.25416	13.10327	0.3318623	0.24441700	2.5334662	21	10 4.3	17.5
222598 2001 XT_{10}	16.4	X	344.76492	239.33976	59.71456	12.65032	0.1433654	0.23526885	2.5987216	21	6 27.8	19.1
222599 2001 XZ_{14}	15.5	X	195.12146	54.31386	63.38935	12.35970	0.1475142	0.22927136	2.6438461	21	8 12.0	19.9
222600 2001 XJ_{16}	15.5	X	305.83940	168.74379	285.82547	34.19977	0.2052067	0.24265021	2.5457491	21	12 1.2	18.5
222601 2001 XY_{17}	15.9	X	254.60849	165.88291	287.79343	13.73972	0.1080277	0.23785254	2.5798682	21	9 8.4	19.7
222602 2001 XV_{21}	15.8	X	228.59511	113.94564	301.50787	13.75829	0.0787723	0.22852341	2.6496118	21	6 29.3	19.7
222603 2001 XM_{23}	16.0	X	278.49260	8.03399	71.59582	11.55493	0.1468988	0.23815629	2.5776741	21	10 1.7	19.3
222604 2001 XS_{27}	16.2	X	199.01550	99.76449	53.78536	5.38758	0.2754530	0.23225570	2.6211495	21	9 21.1	20.8
222605 2001 XY_{28}	15.2	X	302.72024	66.25181	316.68220	15.78349	0.2821781	0.23784817	2.5798998	21	7 23.7	18.1
222606 2001 XC_{35}	15.9	X	222.73994	187.05296	312.88769	9.30691	0.1861784	0.24108572	2.5567507	21	9 25.2	19.9
222607 2001 XY_{37}	15.5	X	15.82971	272.55162	23.60694	10.90127	0.1277021	0.23558546	2.5963928	21	8 31.1	18.4
222608 2001 XT_{43}	16.3	X	250.01678	64.32303	42.51128	9.33515	0.1245671	0.23820220	2.5773429	21	9 29.4	19.8
222609 2001 XJ_{51}	17.4	X	262.96472	179.08927	222.94679	1.81054	0.2024959	0.23569711	2.5955727	21	7 5.2	21.0
222610 2001 XG_{56}	16.7	X	291.98500	329.61739	111.75594	8.66355	0.2388107	0.24227627	2.5483679	21	10 10.2	19.4
222611 2001 XJ_{57}	15.7	X	357.88591	115.87378	245.73423	8.26611	0.1018537	0.24229764	2.5482181	21	10 23.9	18.5
222612 2001 XJ_{67}	15.9	X	106.20524	199.99270	266.89771	13.75484	0.1831063	0.21808977	2.7334587	21	4 25.7	20.1
222613 2001 XZ_{67}	16.4	X	241.98780	348.98412	77.81923	5.40612	0.2620989	0.23173324	2.6250878	21	7 9.7	20.6
222614 2001 XE_{70}	16.4	X	214.45250	13.77621	90.81298	5.16266	0.1117009	0.23625813	2.5914622	21	8 14.7	20.2
222615 2001 XL_{70}	16.5	X	249.08635	10.33549	97.73822	5.01498	0.1475332	0.24121985	2.5558029	21	9 25.8	20.0
222616 2001 XF_{74}	16.6	X	286.18475	180.78350	200.34756	2.89710	0.1826405	0.23664227	2.5886569	21	7 9.3	19.9
222617 2001 XS_{79}	16.5	X	218.62609	295.96109	208.90213	3.09183	0.1423230	0.23879804	2.5730539	21	10 5.6	20.2
222618 2001 XZ_{79}	15.9	X	354.92259	149.11499	225.88838	12.37645	0.1328354	0.24483608	2.5305744	21	11 12.6	18.3
222619 2001 XH_{80}	16.0	X	350.93559	142.38694	209.79474	11.18000	0.2198222	0.24236073	2.5477759	21	10 5.8	17.9
222620 2001 XV_{82}	16.7	X	299.43317	192.35801	217.42696	4.22239	0.1828578	0.24053332	2.5606637	21	9 9.4	19.5
222621 2001 XH_{86}	15.9	X	323.17364	308.19961	120.27573	6.54096	0.2880971	0.24420391	2.5349397	21	11 30.9	17.4
222622 2001 XG_{89}	16.5	X	272.68435	30.73088	54.29869	15.69757	0.1405822	0.24204421	2.5499965	21	10 3.6	19.9
222623 2001 XZ_{92}	16.4	X	347.21913	46.49473	298.74513	2.48871	0.1552326	0.24067217	2.5596788	21	9 12.8	18.9
222624 2001 XE_{93}	15.6	X	58.90373	21.62570	250.36414	12.59913	0.2368958	0.24018724	2.5631229	21	10 11.7	19.4
222625 2001 XO_{95}	16.5	X	264.77937	151.33200	266.35299	2.30113	0.2016511	0.23670082	2.5882300	21	7 28.2	20.0
222626 2001 XY_{105}	16.2	X	345.05620	113.35703	233.52991	3.98773	0.1238004	0.24033486	2.5620732	21	9 9.5	18.9
222627 2001 XF_{106}	16.9	X	322.03271	220.79238	205.13548	1.30918	0.1047719	0.24625475	2.5208459	21	11 25.0	19.4
222628 2001 XG_{108}	15.4	X	281.83199	79.22579	272.06977	11.47290	0.2045350	0.23054780	2.6340786	21	5 19.7	19.2
222629 2001 XM_{108}	15.8	X	286.56529	288.38577	107.42803	11.52838	0.1491631	0.23488764	2.6015326	21	8 7.2	19.0
222630 2001 XY_{108}	16.3	X	223.56591	35.63216	83.20866	13.77266	0.2148594	0.23455382	2.6040004	21	9 7.4	20.7
222631 2001 XR_{114}	16.3	X	217.15997	91.50283	4.72360	4.23531	0.1642473	0.23221227	2.6214763	21	8 2.1	20.5
222632 2001 XL_{115}	15.7	X	199.99364	59.77184	310.99800	8.35894	0.2387545	0.22111066	2.7085047	21	3 26.8	20.7
222633 2001 XP_{115}	15.5	X	280.45310	345.53074	52.40772	6.08896	0.1901040	0.23454526	2.6040637	21	7 25.6	18.9
222634 2001 XZ_{117}	16.1	X	278.24845	49.82081	18.54830	5.07940	0.2038014	0.23651966	2.5895515	21	9 1.1	19.3
222635 2001 XN_{118}	15.6	X	253.93908	354.20980	81.48211	8.82204	0.1689018	0.23291055	2.6162342	21	8 16.3	19.4
222636 2001 XP_{121}	17.1	X	335.21878	168.95572	239.44224	1.55004	0.1514422	0.24681590	2.5170237	21	11 25.3	19.3
222637 2001 XY_{121}	16.9	X	293.50983	215.55242	194.10896	3.20877	0.1127307	0.24084102	2.5584823	21	9 10.9	19.9
222638 2001 XM_{122}	16.7	X	257.40877	302.72388	149.37242	0.95077	0.0910297	0.24053414	2.5606579	21	9 21.1	20.1
222639 2001 XZ_{124}	16.1	X	92.53340	329.22963	232.31011	11.73303	0.0561412	0.23325979	2.6136221	21	7 25.1	19.8
222640 2001 XY_{125}	16.3	X	318.87908	103.59319	231.50236	8.34612	0.2249597	0.23685884	2.5870787	21	6 19.3	19.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
222641 2001 XJ_{131}	16.4	X	9.33240	244.47395	239.22444	5.39529	0.0776325	0.25940956	2.4348865	21	—	—
222642 2001 XA_{136}	16.5	X	271.49623	200.32106	220.36814	2.62358	0.0548461	0.23728113	2.5840084	21	9 1.5	19.9
222643 2001 XZ_{137}	15.7	X	289.22843	137.56710	246.70145	13.22275	0.0772552	0.23525057	2.5988563	21	7 30.7	19.3
222644 2001 XT_{156}	17.0	X	275.62446	320.32730	92.83471	6.73938	0.2477022	0.23702224	2.5858896	21	7 30.4	20.4
222645 2001 XE_{160}	16.0	X	314.12341	228.07294	156.35820	1.63219	0.1327570	0.23768642	2.5810701	21	9 7.8	18.6
222646 2001 XN_{169}	15.8	X	292.89472	93.37905	266.57582	8.97291	0.1052869	0.23149073	2.6269208	21	7 2.1	19.1
222647 2001 XN_{173}	16.2	X	165.77112	201.08331	265.07454	2.50749	0.1093435	0.22608465	2.6686318	21	6 24.2	20.3
222648 2001 XX_{173}	16.3	X	233.22425	319.89056	117.36805	5.28365	0.1317844	0.23207306	2.6225246	21	7 27.1	20.0
222649 2001 XL_{174}	16.7	X	235.39760	278.41478	160.69877	2.62163	0.1954634	0.23275955	2.6173655	21	7 24.7	20.9
222650 2001 XX_{174}	16.2	X	255.89449	343.86508	94.86966	6.15750	0.1325393	0.23523195	2.5989934	21	8 27.5	19.7
222651 2001 XX_{177}	16.5	X	226.34619	164.41937	269.60667	1.05220	0.0686816	0.23011513	2.6373794	21	7 21.1	20.2
222652 2001 XP_{182}	16.3	X	256.39849	278.58938	110.97105	13.92436	0.1954817	0.23016600	2.6369907	21	6 13.9	20.4
222653 2001 XC_{184}	16.5	X	253.47875	283.59425	170.24954	3.36242	0.1782151	0.23586053	2.5943737	21	9 4.4	19.9
222654 2001 XH_{185}	15.9	X	177.94379	263.63583	254.62906	6.48958	0.1321557	0.23355905	2.6113891	21	9 8.6	20.1
222655 2001 XW_{186}	16.3	X	316.26474	102.92747	272.91191	3.52989	0.3234054	0.23945785	2.5683251	21	7 29.0	18.4
222656 2001 XZ_{187}	16.3	X	281.10522	259.43647	148.44762	3.97943	0.2372818	0.23598781	2.5934408	21	7 30.6	19.6
222657 2001 XF_{188}	16.3	X	236.52215	185.18242	274.97590	5.36852	0.0903150	0.23412489	2.6071798	21	9 1.5	20.1
222658 2001 XJ_{194}	16.3	X	1.51267	281.41224	127.05377	2.84309	0.2171033	0.24666396	2.5180572	21	—	—
222659 2001 XD_{211}	15.4	X	230.61288	266.86561	250.77455	11.57086	0.2100202	0.24094697	2.5577322	21	10 24.9	19.3
222660 2001 XL_{217}	16.4	X	293.62642	317.73272	98.66428	5.00309	0.1554419	0.23794925	2.5791691	21	9 17.6	19.3
222661 2001 XD_{218}	15.6	X	102.98816	0.79643	241.14311	12.46284	0.0959721	0.24260423	2.5460708	21	10 6.1	19.4
222662 2001 XR_{221}	15.6	X	74.39095	215.56002	51.68322	9.89585	0.2093517	0.24260055	2.5460965	21	10 25.9	19.3
222663 2001 XU_{228}	16.8	X	263.60691	44.81372	5.51423	2.23635	0.1499401	0.23567996	2.5956987	21	7 25.4	20.2
222664 2001 XV_{233}	16.5	X	285.84922	310.85615	67.90790	8.54672	0.2007902	0.23584936	2.5944556	21	7 3.2	19.9
222665 2001 XP_{234}	16.5	X	291.57469	294.05525	69.59920	12.87574	0.2935177	0.23632822	2.5909498	21	6 4.8	20.1
222666 2001 XK_{254}	16.4	X	7.60372	291.05151	59.39747	10.93814	0.2534507	0.24468869	2.5315905	21	11 18.2	18.7
222667 2001 YN_{7}	16.2	X	290.93076	323.54199	79.00713	5.07956	0.1146411	0.23779355	2.5802948	21	8 30.6	19.3
222668 2001 YT_{8}	16.2	X	215.67141	143.23423	285.31361	4.48065	0.1197677	0.22963224	2.6410755	21	6 27.5	20.1
222669 2001 YV_{10}	16.3	X	281.45366	56.09668	348.62684	3.52433	0.1757458	0.23412904	2.6071490	21	8 7.1	19.5
222670 2001 YJ_{19}	15.9	X	299.91863	250.86531	99.24192	15.78597	0.1811705	0.23133542	2.6280964	21	6 17.6	19.1
222671 2001 YT_{20}	17.1	X	292.64578	128.25057	291.29555	2.87868	0.1647297	0.24155970	2.5534051	21	9 14.9	19.8
222672 2001 YS_{21}	16.9	X	301.17395	4.46305	63.06767	3.46148	0.1979455	0.24344747	2.5401881	21	10 11.0	19.4
222673 2001 YL_{27}	16.7	X	292.25858	314.55050	60.30572	4.40002	0.0822199	0.23499052	2.6007732	21	7 27.8	19.9
222674 2001 YD_{33}	15.9	X	341.68220	44.70609	292.53999	5.74563	0.0550496	0.23608354	2.5927397	21	8 20.9	19.1
222675 2001 YM_{34}	15.6	X	332.73695	63.62907	261.32591	15.18781	0.2288501	0.23606128	2.5929026	21	7 1.6	17.9
222676 2001 YZ_{39}	16.1	X	205.79430	71.89156	68.59713	12.93355	0.2338343	0.23570710	2.5954995	21	9 17.7	20.7
222677 2001 YR_{50}	16.2	X	265.91800	357.10809	70.82856	5.54993	0.1077907	0.23652847	2.5894872	21	8 30.5	19.6
222678 2001 YR_{53}	16.2	X	241.07524	170.86932	281.72931	4.00043	0.1871533	0.23543883	2.5974707	21	8 17.2	20.0
222679 2001 YY_{54}	15.8	X	21.53671	223.81785	66.48503	5.65352	0.1834661	0.23611013	2.5925450	21	9 7.3	18.4
222680 2001 YU_{67}	15.8	X	201.00848	30.54353	90.51675	13.52666	0.1340811	0.23210197	2.6223067	21	8 22.9	20.1
222681 2001 YO_{84}	15.9	X	182.24977	335.54286	101.90066	11.20366	0.1028445	0.22405267	2.6847425	21	6 5.7	20.0
222682 2001 YZ_{86}	16.0	X	272.92606	330.84749	97.20148	9.13230	0.2129564	0.23605189	2.5929714	21	8 23.7	19.5
222683 2001 YG_{96}	16.2	X	243.91221	4.06775	73.88183	8.75861	0.1605937	0.23281205	2.6169720	21	8 8.3	20.1
222684 2001 YA_{112}	16.1	X	330.21080	299.30737	74.27234	3.55389	0.2015898	0.24016030	2.5633146	21	9 21.4	18.2
222685 2001 YF_{115}	16.4	X	314.39311	2.65402	7.11159	5.44327	0.3271480	0.23870290	2.5737375	21	7 16.5	18.7
222686 2001 YY_{116}	16.5	X	302.08466	308.42606	89.48353	5.70347	0.3136863	0.23834899	2.5762846	21	8 7.1	19.1
222687 2001 YN_{122}	16.1	X	246.16423	100.60467	8.89243	5.08710	0.3021629	0.23742832	2.5829403	21	9 2.9	20.2
222688 2001 YF_{126}	16.4	X	66.90574	339.08133	24.01677	6.85172	0.1469449	0.25179727	2.4837166	21	—	—
222689 2001 YT_{161}	16.6	X	74.71896	175.27099	283.90210	17.08953	0.0939308	0.36088220	1.9538554	21	1 13.6	17.9
222690 2002 AB_{6}	15.4	X	194.63463	135.69171	300.99086	21.19028	0.0309468	0.22697085	2.6616809	21	6 20.5	19.4
222691 2002 AU_{7}	15.7	X	178.45429	316.44834	102.66967	18.68598	0.0996335	0.22095092	2.7098100	21	5 14.8	20.1
222692 2002 AF_{8}	16.7	X	263.14323	217.35786	150.00514	2.14084	0.0687207	0.22474178	2.6792516	21	6 7.9	20.3
222693 2002 AO_{9}	16.0	X	168.92178	195.64208	301.56148	7.14938	0.1628192	0.22741177	2.6582394	21	8 6.5	20.2
222694 2002 AY_{9}	15.9	X	171.77141	145.70487	312.67736	10.31869	0.2192444	0.22390568	2.6859174	21	6 23.4	20.6
222695 2002 AT_{13}	16.1	X	303.85856	67.39101	19.16755	4.12016	0.2919409	0.24124912	2.5555961	21	10 28.9	18.0
222696 2002 AK_{15}	16.7	X	253.41601	30.38222	22.00595	12.93456	0.2777544	0.23292200	2.6161484	21	6 30.7	21.1
222697 2002 AZ_{15}	16.4	X	268.62539	350.17945	83.97770	5.14881	0.2193369	0.23536052	2.5980468	21	8 24.4	19.8
222698 2002 AY_{17}	15.1	X	238.96767	250.66186	196.68008	15.48487	0.2788988	0.23380676	2.6095443	21	7 27.5	19.7
222699 2002 AP_{26}	15.9	X	245.65437	80.88963	344.37434	3.56749	0.1741731	0.23036576	2.6354661	21	7 20.9	19.8
222700 2002 AR_{47}	15.9	X	298.93318	247.66132	120.15454	15.76402	0.2017642	0.23251302	2.6192153	21	7 7.1	19.0
222701 2002 AJ_{50}	16.2	X	162.74692	355.55094	126.53922	4.60015	0.0570674	0.22553956	2.6729299	21	7 9.8	20.0
222702 2002 AS_{58}	15.9	X	226.43133	165.07927	283.71110	4.46650	0.1937258	0.23034276	2.6356415	21	7 28.3	20.0
222703 2002 AG_{71}	16.7	X	309.47438	96.01560	289.18229	11.30597	0.3106788	0.24064201	2.5598926	21	7 30.3	19.1
222704 2002 AY_{74}	16.5	X	317.03295	317.15361	49.42199	3.91701	0.2106763	0.23609321	2.5926688	21	8 8.2	18.9
222705 2002 AL_{76}	16.5	X	248.01913	24.18845	34.11240	2.84746	0.0560607	0.23063040	2.6334496	21	7 30.0	20.0
222706 2002 AC_{78}	16.6	X	246.67799	329.00387	99.19888	6.29926	0.1527592	0.23239079	2.6201336	21	7 28.5	20.3
222707 2002 AE_{80}	16.1	X	347.77517	302.46760	312.47194	4.03170	0.0631332	0.22043176	2.7140631	21	5 5.3	19.6
222708 2002 AD_{86}	16.6	X	271.57526	230.21152	175.68663	4.97135	0.3194376	0.23517574	2.5994075	21	7 4.3	20.6
222709 2002 AF_{90}	16.1	X	261.98999	267.85181	168.95876	6.37158	0.3074972	0.23456989	2.6038814	21	8 4.4	19.9
222710 2002 AN_{91}	16.2	X	190.69032	284.33139	166.09602	5.97585	0.0900434	0.22347502	2.6893669	21	6 30.1	20.3
222711 2002 AL_{99}	16.3	X	252.60480	285.48719	98.45317	7.30036	0.0668998	0.22579086	2.6709462	21	6 16.9	19.9
222712 2002 AX_{99}	15.8	X	155.13831	21.19648	79.74786	3.88280	0.1089807	0.22239534	2.6980641	21	6 6.3	19.7
222713 2002 AV_{105}	16.0	X	221.24544	345.58668	110.87024	4.12384	0.1535547	0.23098407	2.6307608	21	8 6.5	19.9
222714 2002 AP_{109}	16.3	X	312.73197	62.79774	314.49790	3.93009	0.3372916	0.23712232	2.5851620	21	7 21.6	18.7
222715 2002 AE_{110}	16.4	X	264.45766	81.39650	87.95480	3.37312	0.0742579	0.24543310	2.5264689	21	—	—
222716 2002 AQ_{114}	15.6	X	253.87120	244.82577	117.42241	13.56939	0.0927988	0.22252876	2.6969855	21	5 21.6	19.7
222717 2002 AM_{122}	16.3	X	302.36163	326.04168	112.17772	6.07561	0.2616223	0.24060758	2.5601369	21	10 21.4	18.6
222718 2002 AC_{125}	16.4	X	265.47347	274.95955	138.03858	13.48258	0.2587263	0.23162387	2.6259140	21	7 14.9	20.5
222719 2002 AY_{130}	16.3	X	287.43611	290.58847	123.02392	5.89441	0.2789001	0.23631519	2.5910450	21	8 10.8	19.4
222720 2002 AB_{137}	16.3	X	253.88292	220.62431	138.53172	5.79503	0.0682931	0.22347112	2.6893982	21	5 18.0	20.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
222721 2002 AW_{147}	16.8	X	238.80842	28.09791	41.30005	5.44590	0.1756892	0.23077504	2.6323492	21	7 19.3	20.8
222722 2002 AO_{149}	16.6	X	199.77469	130.20786	322.59698	1.74743	0.1414658	0.22824233	2.6517867	21	7 11.6	20.8
222723 2002 AU_{153}	15.8	X	11.12141	140.22012	356.81212	4.49005	0.0555869	0.20414194	2.8565898	21	1 10.5	19.5
222724 2002 AF_{159}	15.9	X	194.45726	258.59415	146.05741	6.52202	0.0670294	0.21902829	2.7256447	21	5 8.8	20.0
222725 2002 AR_{159}	15.7	X	301.41551	130.05652	282.87093	4.06052	0.2364487	0.23728429	2.5839854	21	9 7.9	18.3
222726 2002 AS_{161}	16.3	X	250.93902	175.17121	295.84764	3.01881	0.2511375	0.23630191	2.5911421	21	9 12.9	20.2
222727 2002 AG_{164}	15.8	X	213.12421	276.67749	146.94519	14.78619	0.0694628	0.22342471	2.6897707	21	6 22.5	20.0
222728 2002 AE_{170}	16.4	X	71.39405	108.98756	47.89006	3.46604	0.0449265	0.21800751	2.7341463	21	4 28.6	19.8
222729 2002 AX_{170}	16.4	X	291.14220	103.89575	298.65903	1.88073	0.2556762	0.23626736	2.5913947	21	8 4.1	19.2
222730 2002 AR_{171}	16.5	X	196.56949	90.23022	332.92465	4.41282	0.1360830	0.22419844	2.6835786	21	5 30.6	20.8
222731 2002 AM_{174}	16.6	X	262.08281	57.16781	17.96293	2.31365	0.0987711	0.23340854	2.6125116	21	9 3.1	19.9
222732 2002 AX_{180}	15.7	X	188.36427	158.82423	353.97325	11.69103	0.1177800	0.23487307	2.6016402	21	9 16.3	19.6
222733 2002 AT_{183}	16.4	X	157.67186	157.31689	342.96121	4.14464	0.1238913	0.22857393	2.6492214	21	7 31.5	20.5
222734 2002 AG_{187}	15.9	X	252.42467	14.19247	66.43987	7.70021	0.2427305	0.23402787	2.6079004	21	8 11.3	19.9
222735 2002 AV_{187}	16.3	X	240.33161	305.36035	127.80283	13.26792	0.2241292	0.23495940	2.6010028	21	7 19.3	20.4
222736 2002 AJ_{189}	15.6	X	160.05180	236.31160	246.61095	12.61100	0.2325448	0.22476065	2.6791017	21	7 11.5	20.4
222737 2002 AU_{190}	16.8	X	225.15170	345.78040	88.52976	3.87323	0.1418874	0.22875467	2.6478258	21	7 13.5	20.9
222738 2002 AJ_{195}	16.7	X	227.92573	261.80901	176.78261	3.62977	0.1832800	0.22982915	2.6395667	21	7 17.4	20.8
222739 2002 AD_{196}	16.2	X	249.82915	357.98612	339.32940	5.24618	0.0275610	0.21744306	2.7388759	21	4 15.6	20.2
222740 2002 BK_{4}	15.4	X	266.59260	61.87397	49.89615	13.60188	0.1439107	0.23986430	2.5654230	21	10 24.9	18.5
222741 2002 BK_{5}	15.9	X	227.04622	115.58850	331.21428	30.45329	0.2615606	0.23187722	2.6240010	21	7 31.3	20.6
222742 2002 BL_{5}	16.2	X	242.84016	54.52857	25.08122	18.56805	0.2085775	0.23272201	2.6176470	21	8 9.7	20.6
222743 2002 BT_{6}	16.6	X	229.14447	23.98046	47.23048	6.78547	0.2439949	0.23120529	2.6290824	21	7 5.6	21.0
222744 2002 BQ_{11}	16.0	X	117.40803	182.92852	302.48965	2.31883	0.1360353	0.21898687	2.7259884	21	5 29.9	19.9
222745 2002 BM_{14}	15.9	X	210.45906	303.26588	147.03557	13.19772	0.1437435	0.22691487	2.6621187	21	7 17.9	20.1
222746 2002 BA_{23}	15.9	X	217.90922	4.30305	47.04740	13.19150	0.1672673	0.22729521	2.6591481	21	6 2.9	20.3
222747 2002 BE_{29}	16.1	X	265.08998	302.94863	98.14795	18.53120	0.2474327	0.23211541	2.6222056	21	6 30.7	20.0
222748 2002 BG_{30}	15.5	X	208.72950	73.16242	24.77303	17.13275	0.2324818	0.23079128	2.6322256	21	7 27.7	20.3
222749 2002 CP_{2}	16.5	X	231.81668	71.15948	36.21154	5.21074	0.1377292	0.23285449	2.6166540	21	9 4.7	20.3
222750 2002 CD_{4}	15.8	X	210.46108	72.42276	40.16227	12.57750	0.2134425	0.22910163	2.6451518	21	8 17.7	20.4
222751 2002 CW_{16}	17.4	X	23.06037	99.75459	306.26846	18.48131	0.0473599	0.34868319	1.9991653	21	—	—
222752 2002 CA_{17}	16.3	X	203.59408	58.76799	30.62435	3.52856	0.0505227	0.22748989	2.6576308	21	7 16.4	20.0
222753 2002 CY_{25}	14.9	X	298.90598	37.37054	50.04558	13.02228	0.3682260	0.24017501	2.5632099	21	10 9.7	17.2
222754 2002 CA_{29}	16.6	X	279.20840	21.13249	41.28279	5.33448	0.2533467	0.23582525	2.5946324	21	8 17.5	19.9
222755 2002 CH_{29}	15.6	X	32.53304	224.31806	335.93720	12.45427	0.1364538	0.21547696	2.7555111	21	4 30.7	18.9
222756 2002 CQ_{32}	16.2	X	320.55699	2.11751	41.12397	6.25092	0.2741217	0.23928610	2.5695539	21	10 8.1	17.8
222757 2002 CK_{39}	16.4	X	102.37646	160.53383	314.98295	3.67857	0.0788459	0.21517181	2.7581157	21	4 19.1	20.1
222758 2002 CP_{41}	15.7	X	113.22562	243.52403	247.65528	8.60390	0.0961545	0.21718992	2.7410036	21	5 27.7	19.4
222759 2002 CQ_{44}	16.8	X	230.94361	131.12813	296.20160	1.64719	0.1089792	0.22918503	2.6445101	21	7 13.6	20.7
222760 2002 CJ_{47}	16.3	X	185.07706	138.34785	303.14038	11.07606	0.1562831	0.22402220	2.6849859	21	6 12.7	20.8
222761 2002 CT_{52}	16.1	X	268.86814	54.60634	16.10362	5.47575	0.2311321	0.23532576	2.5983026	21	8 18.2	19.6
222762 2002 CD_{54}	15.8	X	178.97583	108.11241	324.90606	11.89275	0.1045588	0.21988065	2.7185962	21	5 23.6	20.2
222763 2002 CM_{65}	15.8	X	142.97167	31.46734	74.51708	10.53105	0.0500682	0.21839210	2.7309354	21	5 25.9	19.7
222764 2002 CY_{65}	15.5	X	319.09740	228.05293	14.70158	13.78661	0.0617521	0.20982099	2.8048099	21	3 15.4	19.3
222765 2002 CC_{77}	15.7	X	191.76135	147.84871	329.14196	13.82677	0.2334244	0.22780366	2.6551899	21	8 3.1	20.4
222766 2002 CD_{78}	15.9	X	190.17887	18.66478	3.42000	4.87298	0.0357408	0.21359494	2.7716735	21	4 2.4	19.9
222767 2002 CB_{81}	15.8	X	157.81655	144.83031	331.47382	12.61685	0.0684327	0.22169723	2.7037251	21	6 28.6	19.9
222768 2002 CR_{81}	16.2	X	135.28297	123.61423	3.51562	3.03604	0.1286777	0.22020545	2.7159223	21	6 20.4	20.3
222769 2002 CS_{86}	16.5	X	190.91984	278.76594	144.12624	4.28345	0.1587153	0.22203078	2.7010166	21	5 26.6	20.8
222770 2002 CS_{90}	16.4	X	207.13400	88.41814	345.79917	2.24377	0.1267395	0.22390397	2.6859310	21	6 25.6	20.4
222771 2002 CV_{92}	17.2	X	162.92911	31.12229	100.36975	2.30952	0.1633886	0.22507493	2.6766071	21	7 25.6	21.4
222772 2002 CT_{96}	15.7	X	168.70851	291.40404	145.81103	11.58415	0.1127286	0.21803741	2.7338963	21	5 24.5	20.1
222773 2002 CB_{97}	12.8	X	323.44792	61.18541	350.36142	16.52901	0.0264909	0.08228832	5.2349265	21	10 10.3	19.7
222774 2002 CJ_{103}	15.5	X	65.58690	170.47270	352.14143	11.35886	0.1704261	0.21300692	2.7767722	21	5 12.0	19.1
222775 2002 CS_{104}	15.9	X	255.02480	312.41794	149.79760	16.06196	0.2717428	0.23413184	2.6071282	21	9 5.9	19.6
222776 2002 CV_{121}	16.4	X	64.14587	322.95391	171.06409	3.16393	0.1347526	0.21234423	2.7825463	21	3 31.0	19.6
222777 2002 CA_{130}	15.4	X	157.31741	272.30654	320.60361	7.64154	0.2319095	0.18368757	3.0648993	21	11 14.4	20.8
222778 2002 CK_{137}	16.3	X	133.53637	256.72376	175.61717	8.92998	0.1639430	0.21586920	2.7521721	21	4 15.1	20.5
222779 2002 CS_{137}	16.0	X	19.34337	157.43236	28.95205	4.07633	0.0343612	0.21290170	2.7776870	21	3 25.5	19.6
222780 2002 CY_{141}	15.9	X	233.26289	281.11465	164.14382	12.51228	0.2211613	0.22997145	2.6384777	21	7 26.9	20.2
222781 2002 CX_{142}	16.5	X	118.16387	329.24586	163.85446	5.46798	0.1086181	0.22069173	2.7119312	21	6 7.5	20.4
222782 2002 CV_{160}	16.1	X	159.06438	21.37253	92.15410	10.63767	0.0725017	0.22395322	2.6855372	21	6 24.9	20.1
222783 2002 CO_{171}	16.1	X	157.90863	30.01514	85.08862	6.56835	0.1075945	0.22252810	2.6969909	21	6 27.5	20.1
222784 2002 CF_{179}	16.3	X	210.66815	316.08907	73.48135	2.57811	0.0943727	0.22015002	2.7163781	21	5 4.9	20.5
222785 2002 CK_{183}	13.2	X	85.86775	170.81385	130.04463	6.71569	0.0324642	0.08633628	5.0699905	21	11 5.7	20.0
222786 2002 CK_{184}	16.0	X	320.98673	93.56472	141.68752	5.25876	0.1042523	0.20949633	2.8077069	21	2 27.2	19.5
222787 2002 CQ_{197}	16.4	X	224.94217	296.27831	118.36903	3.23550	0.1999161	0.22584175	2.6705449	21	6 13.7	20.8
222788 2002 CS_{197}	16.8	X	191.77399	68.44643	343.52256	2.71482	0.2164434	0.22112442	2.7083923	21	5 11.9	21.5
222789 2002 CU_{200}	16.3	X	86.85097	180.71849	329.67596	2.45994	0.0150202	0.21630367	2.7484856	21	5 5.7	20.1
222790 2002 CB_{205}	13.1	X	33.78442	6.09637	337.52312	7.77592	0.0308260	0.08336619	5.1897061	21	10 19.6	20.0
222791 2002 CG_{205}	13.5	X	287.82269	97.95449	349.62085	2.94345	0.0856299	0.08459952	5.1391441	21	10 6.9	20.1
222792 2002 CL_{205}	16.6	X	156.06172	311.49140	148.95691	5.82257	0.0785455	0.21963730	2.7206039	21	6 5.7	20.6
222793 2002 CO_{205}	16.4	X	126.73191	195.45191	331.71786	1.60267	0.0179697	0.22359350	2.6884168	21	7 22.3	20.1
222794 2002 CV_{207}	15.4	X	193.24283	283.77069	341.14095	15.46807	0.2092961	0.19261607	2.9694387	21	—	—
222795 2002 CC_{212}	16.1	X	241.49387	198.34062	125.00486	5.31022	0.0633863	0.21189829	2.7864489	21	3 20.4	20.1
222796 2002 CQ_{213}	16.5	X	202.08300	260.77563	130.74467	4.08936	0.0588879	0.21656644	2.7462618	21	4 30.3	20.5
222797 2002 CU_{221}	16.1	X	160.20960	2.13500	158.25135	11.80620	0.1366359	0.22448876	2.6812644	21	8 27.6	20.3
222798 2002 CP_{222}	16.7	X	162.56998	349.82303	64.49436	2.52224	0.0760479	0.21478690	2.7614097	21	4 14.8	20.8
222799 2002 CF_{227}	16.2	X	61.38448	313.14705	176.30636	7.97665	0.0961642	0.21136274	2.7911538	21	3 15.2	19.6
222800 2002 CY_{232}	15.4	X	215.84925	241.20252	142.34766	11.92471	0.0311209	0.21571101	2.7535175	21	5 9.9	19.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
222801 2002 CZ_{232}	16.0	X	133.34851	171.91853	298.68359	3.91590	0.0664891	0.21971597	2.7199544	21	5 20.4	19.9
222802 2002 CC_{233}	16.5	X	215.44260	291.36844	146.35143	6.89647	0.1517111	0.22780874	2.6551504	21	7 6.6	20.7
222803 2002 CF_{234}	15.7	X	232.74426	51.47682	356.20035	12.96879	0.2557242	0.22796195	2.6539606	21	6 5.8	20.4
222804 2002 CS_{235}	15.3	X	152.34264	143.99997	354.89975	12.56385	0.2416374	0.22374856	2.6871746	21	7 31.8	20.1
222805 2002 CO_{247}	16.5	X	199.77094	109.13001	349.56478	14.99942	0.3001032	0.22599903	2.6693058	21	7 17.4	21.6
222806 2002 CM_{252}	16.2	X	243.78164	227.35523	194.77900	4.47011	0.2281365	0.23080566	2.6321163	21	7 7.7	20.3
222807 2002 CV_{253}	16.7	X	125.33549	59.13021	63.17982	3.49824	0.1319746	0.21895987	2.7262124	21	6 3.6	20.8
222808 2002 CY_{254}	16.1	X	58.62494	354.79505	231.09110	7.31096	0.1616644	0.22093544	2.7099366	21	7 29.0	19.6
222809 2002 CX_{255}	16.4	X	181.14937	221.63243	224.85074	3.09482	0.1883220	0.22218613	2.6997575	21	6 15.5	20.8
222810 2002 CB_{259}	16.2	X	20.67974	359.45684	200.24939	4.46262	0.0444624	0.21461183	2.7629114	21	4 12.9	19.7
222811 2002 CP_{261}	16.1	X	265.42152	31.12271	23.65933	6.49377	0.2659314	0.23200105	2.6230672	21	7 18.3	20.0
222812 2002 CK_{266}	16.2	X	164.18903	290.44178	108.01080	5.75369	0.1460281	0.21504421	2.7592066	21	4 3.4	20.6
222813 2002 CH_{282}	16.8	X	311.36156	130.17512	152.74909	4.42682	0.0308375	0.21583785	2.7524386	21	4 28.1	20.4
222814 2002 CU_{285}	16.0	X	293.00870	343.28332	301.82109	3.87102	0.0965659	0.21385886	2.7693928	21	3 24.3	19.9
222815 2002 CA_{288}	15.5	X	151.37192	277.22497	246.92942	11.71308	0.1444583	0.22600591	2.6692517	21	8 18.8	20.0
222816 2002 CG_{294}	16.2	X	129.25826	85.36841	22.84217	9.52888	0.0987813	0.21926841	2.7236544	21	5 14.9	20.3
222817 2002 CA_{296}	16.4	X	187.44354	243.97801	149.25680	5.50468	0.0702657	0.21397073	2.7684274	21	4 16.6	20.5
222818 2002 CB_{297}	16.0	X	121.61255	86.41475	353.37677	5.99575	0.0328562	0.20985838	2.8044767	21	3 23.6	19.9
222819 2002 CA_{298}	16.4	X	215.22226	198.65868	236.18475	1.05310	0.0386784	0.22520095	2.6756085	21	7 11.2	20.1
222820 2002 CT_{304}	16.8	X	157.95500	297.89579	181.06964	12.82611	0.2213601	0.22311938	2.6922240	21	7 5.7	21.6
222821 2002 CB_{316}	13.1	X	344.37134	237.47083	167.51284	7.07168	0.0384277	0.08149642	5.2687838	21	11 2.9	19.9
222822 2002 DN_{6}	16.3	X	331.00716	65.97745	165.98448	4.59834	0.0130099	0.21055715	2.7982685	21	3 20.5	20.0
222823 2002 DP_{6}	16.4	X	259.65034	125.61084	252.18873	1.27817	0.0648026	0.22205979	2.7007814	21	6 17.9	20.0
222824 2002 DP_{7}	16.3	X	244.74352	320.93090	104.84613	20.13993	0.2525871	0.23122855	2.6289061	21	7 11.5	20.5
222825 2002 DL_{8}	16.1	X	246.67342	339.76636	71.17477	12.97122	0.2588064	0.22985868	2.6393407	21	6 23.3	20.5
222826 2002 DS_{19}	13.6	X	326.72590	14.73798	45.78250	2.34477	0.0515053	0.08410926	5.1590949	21	10 28.1	20.2
222827 2002 DP_{20}	12.8	X	89.48793	226.98822	66.76949	5.21229	0.0242574	0.08235115	5.2322634	21	10 30.2	19.7
222828 2002 ER_{2}	15.7	X	211.56665	157.09509	86.96694	6.13931	0.2156550	0.18874307	3.0099229	21	—	—
222829 2002 EG_{7}	15.5	X	158.99546	82.43988	359.58052	6.31517	0.0214282	0.21294618	2.7773001	21	5 9.4	19.4
222830 2002 EL_{7}	16.4	X	175.44472	92.28803	358.55710	9.46368	0.2553668	0.22050169	2.7134892	21	6 16.3	21.3
222831 2002 EE_{8}	12.6	X	310.40531	77.70913	347.81517	11.43911	0.0676118	0.08169203	5.2603694	21	10 8.7	19.4
222832 2002 EY_{12}	17.1	X	158.83975	66.27347	56.21126	4.23307	0.2690909	0.22235800	2.6983662	21	7 13.9	22.0
222833 2002 EL_{13}	15.2	X	40.21824	156.95127	55.67836	8.68627	0.2011798	0.21462949	2.7627598	21	6 16.4	18.0
222834 2002 EE_{15}	16.4	X	185.94191	115.92659	300.26128	3.84046	0.1142060	0.21849410	2.7300855	21	5 11.2	20.7
222835 2002 ED_{18}	16.4	X	262.78392	112.70853	189.30250	2.11510	0.0470934	0.20933980	2.8091063	21	3 17.9	20.2
222836 2002 ES_{19}	14.8	X	139.74769	252.48654	1.71417	16.50028	0.2231842	0.17953495	3.1119794	21	11 22.6	20.4
222837 2002 EG_{30}	16.0	X	171.52642	343.65481	147.20715	7.16219	0.1657873	0.22337796	2.6901459	21	7 31.9	20.4
222838 2002 EO_{52}	16.2	X	188.31541	95.21711	349.09933	4.48445	0.0551663	0.22002344	2.7174199	21	6 20.3	20.2
222839 2002 EN_{54}	16.4	X	57.21291	8.16983	143.79021	4.71983	0.0442310	0.21005906	2.8026902	21	4 4.5	20.1
222840 2002 EC_{57}	12.9	X	25.40633	69.41557	296.44986	5.01439	0.0903588	0.08460864	5.1387747	21	11 10.0	19.5
222841 2002 EF_{59}	16.0	X	323.26205	37.89997	212.73532	2.16358	0.0165181	0.21095033	2.7947904	21	4 1.9	19.8
222842 2002 EE_{78}	15.3	X	187.24571	270.99169	17.22141	10.43156	0.0809685	0.19115666	2.9845333	21	—	—
222843 2002 EB_{80}	13.1	X	288.34032	314.36995	144.44115	5.99559	0.1024867	0.08458825	5.1396003	21	10 20.6	19.8
222844 2002 EH_{82}	12.7	X	259.83796	202.91860	290.90207	5.15894	0.1340104	0.08285413	5.2110663	21	10 18.8	19.8
222845 2002 EL_{82}	15.9	X	257.52393	1.80446	225.76094	0.97960	0.0369968	0.19647926	2.9303865	21	—	—
222846 2002 EN_{82}	15.9	X	162.96037	60.96269	183.80412	5.93791	0.2103696	0.18328180	3.0694212	21	12 4.9	21.2
222847 2002 EL_{85}	12.7	X	290.53845	294.50493	161.93611	9.45496	0.0960928	0.08191688	5.2507390	21	10 21.3	19.5
222848 2002 EC_{95}	16.5	X	180.77601	67.44109	39.47196	2.95780	0.1752046	0.22335281	2.6903478	21	7 11.2	20.9
222849 2002 EH_{99}	16.0	X	304.01173	17.95082	86.57054	6.63638	0.2241109	0.24242396	2.5473328	21	12 7.9	18.0
222850 2002 EC_{100}	16.0	X	129.13231	235.16638	245.58882	6.15537	0.1218109	0.21772118	2.7365429	21	6 4.9	20.1
222851 2002 EA_{109}	13.4	X	282.17603	93.76069	5.88090	0.60586	0.1111380	0.08217821	5.2396017	21	10 10.7	20.2
222852 2002 EB_{114}	16.1	X	169.86000	207.75531	77.03823	1.56947	0.1563039	0.19052029	2.9911755	21	—	—
222853 2002 EH_{117}	16.9	X	223.29059	24.09111	62.64803	3.06245	0.2335611	0.22719949	2.6598949	21	7 20.9	21.3
222854 2002 EL_{119}	13.1	X	290.07867	190.62823	282.63416	3.50807	0.0636043	0.08391223	5.1671675	21	11 9.2	19.9
222855 2002 EY_{121}	16.2	X	188.24842	112.40189	167.17364	2.49126	0.0527747	0.19441401	2.9511029	21	—	—
222856 2002 EK_{125}	16.2	X	92.09885	94.41609	27.97836	5.17960	0.1132029	0.21172784	2.7879442	21	4 21.8	19.9
222857 2002 EP_{125}	15.3	X	308.54725	266.62858	316.29509	10.24965	0.0401219	0.20304828	2.8668381	21	2 5.4	19.0
222858 2002 EU_{128}	16.5	X	125.07602	98.21430	52.37824	2.35687	0.0436940	0.21962370	2.7207162	21	6 30.7	20.3
222859 2002 EX_{128}	12.5	X	350.46219	49.50312	345.70510	13.76580	0.0818160	0.08254308	5.2241495	21	10 23.4	19.1
222860 2002 EX_{129}	15.4	X	47.36559	16.58777	155.90581	17.12184	0.1396271	0.21434544	2.7652000	21	4 30.3	18.9
222861 2002 EZ_{134}	12.8	X	350.61299	62.79633	350.00289	6.72227	0.0999908	0.08360108	5.1799805	21	11 15.7	19.2
222862 2002 EA_{136}	13.3	X	287.90396	285.10316	167.99208	6.43338	0.0525423	0.08159016	5.2647474	21	10 18.9	20.1
222863 2002 EP_{136}	16.1	X	49.62089	83.62024	24.15390	2.10998	0.0227373	0.20236540	2.8732839	21	1 26.5	19.8
222864 2002 ET_{136}	12.8	X	321.84186	249.41800	169.53034	21.11586	0.1077957	0.08217254	5.2398426	21	10 18.8	19.4
222865 2002 EJ_{150}	15.8	X	175.82919	2.66317	3.23110	12.32612	0.0466249	0.20453857	2.8528958	21	3 1.9	19.9
222866 2002 EX_{150}	15.9	X	129.89703	274.34407	167.69406	5.88774	0.0396456	0.20944204	2.8081921	21	4 8.8	19.7
222867 2002 ES_{154}	15.9	X	275.40340	201.81498	153.98075	7.07244	0.0500514	0.22072193	2.7116838	21	6 12.0	19.7
222868 2002 EA_{162}	16.5	X	233.95251	244.31395	190.89461	5.42089	0.1804939	0.22927279	2.6438352	21	7 18.8	20.6
222869 2002 FB_{6}	17.8	X	337.48536	101.87744	182.68279	33.71295	0.5449333	0.40935193	1.7964073	21	2 12.8	21.0
222870 2002 FM_{8}	15.8	X	8.86026	301.57461	217.31539	6.98987	0.1271253	0.20372342	2.8605008	21	1 26.7	19.2
222871 2002 FA_{27}	13.1	X	271.53758	86.73354	26.21267	12.68353	0.0953195	0.08472471	5.1340804	21	10 16.2	19.8
222872 2002 GF	15.8	X	205.84163	109.60200	87.73677	26.44049	0.2510080	0.23556052	2.5965760	21	11 23.8	20.3
222873 2002 GL	15.7	X	238.10580	202.77150	104.06747	3.12769	0.0510386	0.20256753	2.8713722	21	2 25.4	19.8
222874 2002 GR_{13}	15.7	X	219.34172	232.90494	32.36118	9.91914	0.0356841	0.19258811	2.9697261	21	—	—
222875 2002 GX_{13}	15.2	X	92.75755	86.31073	206.81573	20.10669	0.2777335	0.17457211	3.1706828	21	12 8.0	20.7
222876 2002 GO_{41}	15.5	X	292.98484	354.90402	235.62198	5.97211	0.0742922	0.19984905	2.8973524	21	1 21.1	19.7
222877 2002 GG_{45}	15.4	X	161.96131	299.59841	16.01424	10.49133	0.0891363	0.19154282	2.9805206	21	—	—
222878 2002 GH_{49}	15.9	X	187.46381	53.18908	212.62707	4.71234	0.1586723	0.18663733	3.0325203	21	—	—
222879 2002 GO_{64}	16.1	X	7.53296	355.66465	153.92227	3.02981	0.1917973	0.20027338	2.8932585	21	1 8.8	19.1
222880 2002 GQ_{64}	15.1	X	176.82340	220.52234	45.21541	11.27847	0.0649269	0.18603158	3.0390996	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
222881 2002 GQ_{69}	15.4	X	147.80636	77.93533	188.54813	11.71791	0.0694102	0.18250795	3.0780915	21	12 16.9	20.3
222882 2002 GV_{72}	15.5	X	212.58930	95.16844	147.56252	6.03114	0.1571181	0.18880838	3.0092288	21	—	—
222883 2002 GP_{83}	15.7	X	0.78178	127.84899	50.69547	12.47417	0.1164759	0.20193000	2.8774127	21	2 18.4	19.4
222884 2002 GK_{86}	15.4	X	136.80095	106.80839	180.91378	21.13884	0.2024989	0.18165246	3.0877480	21	12 31.4	21.1
222885 2002 GC_{91}	15.3	X	161.39394	59.15204	205.11883	13.62600	0.1392989	0.18241589	3.0791270	21	12 25.2	20.5
222886 2002 GM_{91}	15.5	X	179.66024	87.80466	194.65204	9.45345	0.0478895	0.19075548	2.9887163	21	—	—
222887 2002 GS_{91}	16.1	X	117.06199	295.90157	171.36225	7.90190	0.1903576	0.21240683	2.7819996	21	5 15.2	20.4
222888 2002 GY_{92}	15.0	X	119.78265	105.39974	201.12898	24.43313	0.2607559	0.18183475	3.0856841	21	—	—
222889 2002 GU_{95}	15.3	X	243.69979	214.46736	9.11567	10.35539	0.0495044	0.19075150	2.9887580	21	—	—
222890 2002 GB_{111}	14.9	X	100.52435	250.35021	92.57284	6.73271	0.1661684	0.18505517	3.0497804	21	—	—
222891 2002 GB_{112}	15.6	X	116.95822	335.21064	87.87355	7.83812	0.0670692	0.20295835	2.8676850	21	3 7.1	19.7
222892 2002 GR_{116}	15.3	X	144.50188	149.33200	170.49818	11.46388	0.0603009	0.18965566	3.0002597	21	—	—
222893 2002 GM_{130}	16.4	X	357.25074	312.71150	237.52681	1.90159	0.1000833	0.20332516	2.8642349	21	2 22.1	19.9
222894 2002 GB_{138}	15.8	X	140.69677	252.57608	239.92273	6.23084	0.1193274	0.21675814	2.7446424	21	7 1.8	20.0
222895 2002 GF_{138}	14.8	X	15.65762	147.53924	202.41336	14.77426	0.0891522	0.17591070	3.1545775	21	10 26.1	18.8
222896 2002 GN_{140}	16.1	X	178.52424	209.67761	169.66545	2.13750	0.0861261	0.20422879	2.8557799	21	3 20.5	20.3
222897 2002 GJ_{162}	15.6	X	150.51954	124.86157	149.21156	2.14813	0.1933894	0.18313877	3.0710191	21	12 27.7	20.8
222898 2002 GB_{165}	15.5	X	295.58729	148.23911	51.78484	11.35270	0.0735019	0.19435255	2.9517249	21	—	—
222899 2002 GU_{169}	15.8	X	232.60523	199.99085	8.08073	5.45875	0.1646112	0.18689797	3.0297002	21	12 27.3	20.3
222900 2002 GZ_{179}	17.6	X	296.75127	240.55904	51.74065	2.89534	0.1821032	0.30786342	2.1721876	21	3 17.3	20.2
222901 2002 GH_{180}	16.1	X	174.57481	210.06303	134.60914	1.68836	0.0169625	0.19775702	2.9177502	21	1 29.3	20.1
222902 2002 GQ_{181}	16.0	X	154.73352	255.30337	3.43632	1.22528	0.1443099	0.18162692	3.0880375	21	12 13.9	20.9
222903 2002 GS_{181}	15.5	X	239.59923	31.13819	208.36986	11.04867	0.0423469	0.19140662	2.9819343	21	—	—
222904 2002 GR_{184}	15.5	X	100.86938	140.83879	209.94332	11.51539	0.1159884	0.18575463	3.0421196	21	—	—
222905 2002 HD_{5}	16.0	X	296.31871	71.03326	135.20661	7.85681	0.2559574	0.19564849	2.9386760	21	—	—
222906 2002 HQ_{6}	15.1	X	106.53555	67.87869	231.54639	14.65540	0.2531469	0.17732735	3.1377540	21	12 23.1	20.6
222907 2002 HV_{10}	15.1	X	116.59936	74.78055	225.79830	15.67075	0.2386103	0.17775026	3.1327752	21	12 30.2	20.7
222908 2002 HF_{18}	15.9	X	112.85780	108.12191	183.85219	0.85238	0.1518342	0.17765605	3.1338825	21	12 15.3	20.8
222909 2002 JU_{1}	15.4	X	244.05652	32.60283	220.80665	22.07089	0.1490218	0.19216001	2.9741352	21	—	—
222910 2002 JP_{32}	15.5	X	139.01163	89.54020	191.24289	5.24606	0.1545810	0.17929545	3.1147501	21	12 25.1	20.6
222911 2002 JZ_{45}	15.0	X	149.36630	43.24473	228.81582	16.26411	0.2523527	0.18118884	3.0930130	21	12 22.9	20.6
222912 2002 JB_{54}	15.5	X	173.28371	234.08903	44.07433	17.92784	0.2172282	0.18410587	3.0602550	21	—	—
222913 2002 JA_{67}	17.8	X	45.97731	125.62093	118.64410	2.92062	0.1709652	0.31614389	2.1340906	21	8 14.9	19.4
222914 2002 JW_{76}	15.4	X	121.97805	276.27135	25.93527	15.39169	0.2951971	0.18047717	3.1011388	21	—	—
222915 2002 JD_{83}	15.1	X	103.06208	284.79241	32.58691	11.16123	0.0713612	0.18191896	3.0847318	21	12 30.3	19.9
222916 2002 JL_{98}	15.2	X	171.22203	216.56168	21.11190	8.76374	0.0712136	0.18137896	3.0908513	21	12 5.3	20.0
222917 2002 JS_{98}	15.0	X	91.07327	28.38283	264.82066	7.38605	0.1914542	0.17315157	3.1880009	21	11 29.3	20.1
222918 2002 JM_{105}	15.6	X	190.30919	140.69058	91.05790	7.03601	0.2257064	0.18087848	3.0965501	21	12 9.9	20.9
222919 2002 JT_{108}	16.1	X	213.84899	198.72443	103.41487	25.01736	0.2551886	0.29378466	2.2410419	21	1 11.5	19.9
222920 2002 JQ_{141}	15.4	X	124.83555	273.50711	39.32100	9.75329	0.0805223	0.18389398	3.0626053	21	—	—
222921 2002 JG_{145}	14.9	X	216.50414	14.34283	183.92649	18.10580	0.1689096	0.18179536	3.0861298	21	11 29.8	20.0
222922 2002 JF_{147}	17.0	X	305.42617	352.17907	311.18083	4.39200	0.1923882	0.31022350	2.1611567	21	4 7.4	19.5
222923 2002 JZ_{148}	15.5	X	103.66334	284.56552	36.14962	10.23946	0.0892821	0.18180408	3.0860311	21	—	—
222924 2002 LO_{29}	15.2	X	168.44150	282.27963	48.64816	11.17405	0.0707786	0.19053210	2.9910519	21	1 13.3	19.8
222925 2002 LQ_{32}	14.5	X	71.62736	132.68060	202.98594	26.25476	0.1988272	0.17375546	3.1806099	21	12 27.6	19.8
222926 2002 LZ_{44}	15.2	X	105.14805	115.23162	195.75221	15.17086	0.2482196	0.17600515	3.1534489	21	—	—
222927 2002 LN_{53}	14.9	X	96.10333	60.56686	217.55119	20.63665	0.2196825	0.17144615	3.2091071	21	11 19.6	20.1
222928 2002 LA_{54}	15.0	X	64.70850	104.78989	210.72243	15.27043	0.1361299	0.17126608	3.2113562	21	11 22.9	19.7
222929 2002 LD_{62}	17.6	X	217.74877	146.99044	182.85226	2.84058	0.2201817	0.29413586	2.2392577	21	2 15.9	21.2
222930 2002 MT_{5}	17.5	X	207.05462	88.33060	239.77998	8.06906	0.2169766	0.29188824	2.2507382	21	2 3.1	21.4
222931 2002 NQ_{7}	17.6	X	167.44223	143.92290	212.87121	4.83657	0.3847204	0.28750299	2.2735672	21	2 17.9	21.7
222932 2002 NN_{11}	17.2	X	223.82979	171.01238	121.27364	10.22588	0.1613868	0.29175592	2.2514187	21	1 6.3	20.6
222933 2002 NO_{22}	17.1	X	212.15569	33.42849	288.21158	4.87333	0.2179588	0.29191533	2.2505990	21	2 1.6	20.8
222934 2002 NR_{61}	17.1	X	199.35927	22.77933	333.86802	7.37225	0.1533844	0.29480526	2.2358667	21	3 4.1	20.5
222935 2002 NT_{63}	17.4	X	235.97095	28.15386	311.25680	4.39876	0.1859447	0.29823866	2.2186736	21	3 14.4	21.0
222936 2002 OX	17.3	X	241.55262	117.83792	179.74188	6.11986	0.2342673	0.29454787	2.2371690	21	1 25.7	21.2
222937 2002 OY_{5}	15.0	X	18.95673	201.30084	225.23015	8.72224	0.0593157	0.17502863	3.1651672	21	—	—
222938 2002 OL_{9}	17.1	X	91.95765	152.99910	216.39000	3.62274	0.2697949	0.27828601	2.3234953	21	—	—
222939 2002 OO_{9}	17.3	X	124.92749	173.62721	173.43793	5.76561	0.1905692	0.28152099	2.3056614	21	—	—
222940 2002 OG_{19}	16.9	X	204.91202	238.47879	118.40544	8.67321	0.2082366	0.29444995	2.2376649	21	3 14.8	20.6
222941 2002 OU_{25}	17.1	X	252.49443	324.42058	347.15665	7.11749	0.1555259	0.29786603	2.2205236	21	2 26.4	20.2
222942 2002 OX_{27}	18.1	X	208.42376	173.19847	177.62982	3.52994	0.1481855	0.29476397	2.2360754	21	3 5.7	21.5
222943 2002 PN_{4}	17.2	X	288.83314	359.13884	245.77565	7.15565	0.0945439	0.29386700	2.2406232	21	1 13.6	20.3
222944 2002 PL_{11}	16.9	X	162.79238	128.47505	290.49750	5.40004	0.1057317	0.29742882	2.2226991	21	4 11.9	20.0
222945 2002 PA_{27}	16.9	X	303.38152	27.44217	298.58495	4.23178	0.0386281	0.30580836	2.1819082	21	6 7.6	19.2
222946 2002 PO_{29}	17.2	X	217.07350	67.86772	271.07879	2.72370	0.1925239	0.29405844	2.2396506	21	2 26.0	20.7
222947 2002 PV_{30}	16.9	X	90.91333	268.69548	265.59595	2.90962	0.0305212	0.30512442	2.1851675	21	6 13.1	19.3
222948 2002 PS_{49}	16.7	X	194.21029	174.70307	167.20121	5.74160	0.2275538	0.28804147	2.2707328	21	2 12.5	20.5
222949 2002 PU_{57}	16.4	X	187.62580	76.93306	301.00258	5.12342	0.1580681	0.29334987	2.2432557	21	3 18.7	19.8
222950 2002 PQ_{73}	17.7	X	183.77266	132.82153	218.97430	6.85046	0.1787014	0.29043264	2.2582522	21	2 11.1	21.3
222951 2002 PM_{98}	14.4	X	76.56624	272.21864	94.72749	10.33891	0.1832350	0.17026592	3.2239197	21	—	—
222952 2002 PQ_{108}	17.5	X	213.50248	252.63995	103.33098	5.73858	0.1905984	0.29550170	2.2323523	21	3 20.4	21.1
222953 2002 PS_{108}	17.6	X	210.66295	235.11432	81.43256	4.12313	0.1928158	0.29117099	2.2544329	21	1 26.3	21.1
222954 2002 PF_{120}	17.4	X	226.85340	129.66288	218.33930	4.20019	0.1316411	0.29604045	2.2296431	21	3 19.2	20.6
222955 2002 PM_{120}	17.3	X	245.51585	137.44648	189.73815	5.15912	0.1976041	0.29644045	2.2276369	21	3 8.0	20.7
222956 2002 PF_{129}	17.1	X	264.28357	235.20684	31.18793	8.48278	0.2819729	0.29320843	2.2439771	21	1 6.3	21.1
222957 2002 PR_{159}	17.1	X	236.72260	307.79206	329.43257	6.45348	0.1925439	0.29097181	2.2554616	21	—	—
222958 2002 PG_{185}	17.4	X	188.22741	287.19089	37.90884	6.19318	0.1446990	0.28735089	2.2743695	21	1 14.9	20.8
222959 2002 PH_{186}	17.1	X	172.21712	65.83193	13.56478	5.09447	0.1035504	0.30121232	2.2040472	21	5 22.6	20.2
222960 2002 QW_{15}	15.6	X	207.22121	14.93338	274.53101	23.97027	0.1496928	0.28337364	2.2956011	21	—	—

Planet		H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
		m		°	°	°	°		°				
222961	2002 QC_{17}	17.6	X	245.33611	99.78297	211.23602	5.57684	0.2338450	0.29439519	2.2379424	21	2 13.3	21.5
222962	2002 QF_{21}	17.0	X	177.49300	23.76967	343.64482	7.41096	0.1318742	0.29000310	2.2604815	21	2 24.9	20.3
222963	2002 QP_{28}	17.7	X	226.89103	301.60953	22.01193	3.45589	0.2033314	0.29459612	2.2369247	21	2 17.8	21.2
222964	2002 QK_{41}	16.9	X	245.40846	298.34701	344.73344	7.33137	0.1806052	0.29302054	2.2449362	21	1 15.5	20.6
222965	2002 QJ_{45}	17.0	X	335.06204	111.64987	174.62912	1.79149	0.1652547	0.30471746	2.1871127	21	5 11.0	18.7
222966	2002 QY_{54}	16.9	X	122.12980	52.15677	359.56452	5.00207	0.1601199	0.28772306	2.2724078	21	2 24.1	19.7
222967	2002 QG_{71}	17.1	X	325.61818	152.05944	87.07409	4.00313	0.1107547	0.29709380	2.2243698	21	2 23.1	19.6
222968	2002 QO_{73}	17.3	X	203.57339	241.42210	102.95494	4.55079	0.1775156	0.29201809	2.2500710	21	2 23.9	20.9
222969	2002 QL_{88}	17.5	X	132.75398	88.55920	348.29642	7.23402	0.1602194	0.29284687	2.2458237	21	4 8.4	20.5
222970	2002 QP_{97}	17.5	X	175.73559	67.05204	6.17244	3.01403	0.1288072	0.30056088	2.2072308	21	5 19.4	20.6
222971	2002 QO_{105}	17.8	X	119.70862	11.81294	72.97232	3.75441	0.1104429	0.29398941	2.2400012	21	3 31.1	20.4
222972	2002 QW_{106}	17.4	X	243.91663	143.29169	163.19207	4.56920	0.0586967	0.29310828	2.2444882	21	2 15.4	20.1
222973	2002 QM_{107}	17.1	X	314.89854	25.06394	202.36406	2.35331	0.1061858	0.29432753	2.2382854	21	1 21.6	19.8
222974	2002 QQ_{116}	17.6	X	114.15904	26.18457	25.34630	3.03483	0.1546101	0.28682760	2.2771349	21	2 12.2	20.2
222975	2002 QK_{126}	15.1	X	258.15212	276.27206	118.19582	10.94528	0.0944153	0.14800313	3.5396102	21	7 4.3	20.3
222976	2002 QM_{133}	17.7	X	358.34263	232.83348	50.01087	3.17014	0.1859542	0.25586113	2.4573471	21	6 30.8	19.6
222977	2002 RK_{21}	17.5	X	144.93138	246.73570	119.32102	2.69715	0.2204624	0.28446242	2.2897397	21	1 29.6	20.6
222978	2002 RB_{24}	17.2	X	267.89211	316.79639	324.91760	2.73375	0.1672445	0.29386555	2.2406306	21	2 2.6	20.6
222979	2002 RJ_{26}	17.3	X	229.58758	126.05694	217.45346	6.20720	0.1297966	0.29569568	2.2313758	21	3 15.5	20.7
222980	2002 RF_{31}	17.0	X	164.11555	194.20431	192.84623	6.26933	0.1253780	0.29015297	2.2597030	21	3 5.7	20.2
222981	2002 RM_{40}	17.1	X	120.54552	12.08598	11.41706	5.53474	0.2430408	0.28301563	2.2975366	21	1 29.1	19.8
222982	2002 RG_{45}	16.6	X	266.24541	277.93497	11.02582	6.24949	0.1347338	0.29394367	2.2402336	21	2 14.9	19.9
222983	2002 RS_{45}	17.1	X	123.26254	1.12751	47.24206	2.52704	0.2203523	0.28569919	2.2831269	21	3 2.4	19.9
222984	2002 RQ_{51}	17.3	X	225.42292	216.91093	88.74123	2.25847	0.2473067	0.29000047	2.2604952	21	1 25.3	21.3
222985	2002 RZ_{53}	17.7	X	140.91506	268.44374	88.17025	1.77994	0.2436045	0.28291765	2.2980670	21	1 16.4	20.6
222986	2002 RQ_{55}	17.0	X	161.88279	180.13578	215.12874	5.15978	0.1601005	0.28977587	2.2616631	21	3 17.1	20.2
222987	2002 RQ_{59}	17.4	X	152.12819	208.93400	136.97798	2.71988	0.2238277	0.28263735	2.2995861	21	1 11.9	20.6
222988	2002 RP_{68}	17.1	X	193.25775	343.38916	10.32178	3.48576	0.1833863	0.29004901	2.2602430	21	2 26.2	20.5
222989	2002 RR_{77}	17.3	X	126.82805	303.65829	107.95062	0.36465	0.1885200	0.28698610	2.2762964	21	3 5.2	20.2
222990	2002 RE_{82}	16.7	X	101.94906	61.12647	333.22625	4.41694	0.1935316	0.28052177	2.3111333	21	1 6.9	18.8
222991	2002 RX_{88}	17.2	X	133.02287	296.86523	160.52298	4.42497	0.1095177	0.29595846	2.2300548	21	5 4.7	20.1
222992	2002 RK_{120}	17.2	X	210.08111	284.43640	89.03916	4.82227	0.1341056	0.29640387	2.2278202	21	4 8.5	20.4
222993	2002 RX_{129}	16.5	X	189.58971	312.03235	9.48440	24.65114	0.2293812	0.28657042	2.2784971	21	1 25.7	20.8
222994	2002 RQ_{151}	17.3	X	174.88325	202.40515	209.57518	8.62169	0.1888529	0.29401727	2.2398597	21	4 23.9	20.8
222995	2002 RT_{152}	17.0	X	186.35292	28.87716	291.39168	6.01056	0.1223357	0.28500263	2.2868454	21	1 4.4	20.3
222996	2002 RZ_{152}	16.6	X	145.85591	53.46702	295.70368	6.01811	0.1297182	0.28235824	2.3011013	21	—	—
222997	2002 RO_{157}	17.6	X	130.54761	119.37483	212.26004	3.26930	0.1822477	0.27882587	2.3204952	21	—	—
222998	2002 RG_{159}	16.9	X	173.83311	67.10339	338.40963	7.18305	0.1212048	0.29321130	2.2439624	21	4 7.7	20.1
222999	2002 RZ_{164}	17.5	X	186.51366	53.44647	337.67034	0.42382	0.1440523	0.29368075	2.2415704	21	4 5.7	20.9
223000	2002 RR_{173}	17.1	X	191.87460	332.67706	336.10465	2.24621	0.2080594	0.28491553	2.2873115	21	1 1.7	20.7
223001	2002 RQ_{177}	16.8	X	199.14014	153.70459	199.35302	6.30488	0.1449090	0.29085872	2.2560462	21	2 26.5	20.2
223002	2002 RS_{178}	17.5	X	172.95472	330.42218	3.63872	3.04059	0.2015720	0.28458497	2.2890823	21	1 15.8	21.0
223003	2002 RS_{184}	14.7	X	250.54514	199.60179	261.54424	8.99165	0.1179935	0.15466207	3.4372688	21	9 7.7	19.9
223004	2002 RU_{188}	18.2	X	109.56026	44.94890	337.08698	2.31433	0.2137591	0.28060732	2.3106636	21	1 5.1	20.6
223005	2002 RX_{188}	16.9	X	120.22738	267.86858	163.84178	6.14580	0.0604149	0.28999731	2.2605116	21	3 3.8	19.5
223006	2002 RA_{196}	17.4	X	127.23960	42.95079	359.85393	4.64861	0.2096558	0.28564004	2.2834421	21	2 26.0	20.2
223007	2002 RR_{202}	16.4	X	158.58297	76.02836	291.90130	4.77849	0.1888564	0.28628649	2.2800033	21	2 10.1	19.7
223008	2002 RN_{210}	17.3	X	84.00479	276.35416	187.60166	3.15939	0.1308809	0.28723174	2.2749984	21	3 6.0	19.6
223009	2002 RH_{211}	16.8	X	247.78485	264.14947	31.29804	10.28316	0.0959046	0.29178898	2.2512486	21	2 8.8	20.1
223010	2002 RA_{224}	16.6	X	230.79013	219.16661	92.36738	7.24395	0.2322665	0.29267557	2.2466999	21	2 6.5	20.4
223011	2002 RW_{234}	17.3	X	120.28651	308.05970	167.04360	6.20446	0.1389145	0.29693864	2.2251446	21	5 17.8	20.2
223012	2002 RS_{239}	15.3	X	153.93465	359.02336	257.55026	2.91479	0.0484018	0.16786319	3.2546109	21	12 9.0	20.2
223013	2002 RH_{241}	16.9	X	115.02807	204.42004	272.77002	2.85551	0.1653653	0.29586568	2.2305210	21	5 15.5	19.8
223014	2002 SA_{3}	16.7	X	129.93534	178.36580	221.44856	23.58277	0.1864795	0.28521881	2.2856897	21	2 12.1	20.3
223015	2002 SK_{3}	17.5	X	221.64172	261.54411	14.31856	3.13027	0.1470589	0.28443534	2.2898850	21	—	—
223016	2002 SJ_{6}	16.6	X	142.05427	10.50293	27.77793	6.78749	0.1893610	0.28628187	2.2800279	21	3 7.9	19.8
223017	2002 SW_{7}	16.9	X	229.22662	256.44847	38.31318	4.17582	0.1902224	0.28798164	2.2710473	21	1 15.9	20.7
223018	2002 SB_{12}	17.8	X	126.46780	254.12232	180.53710	0.53288	0.1556195	0.28808857	2.2704853	21	3 31.2	20.6
223019	2002 SC_{22}	16.9	X	251.27790	235.50665	12.74868	5.47063	0.2249296	0.28514185	2.2861009	21	—	—
223020	2002 SD_{24}	17.3	X	225.01615	133.00615	180.38471	3.36924	0.1647050	0.29018348	2.2595447	21	2 2.1	20.9
223021	2002 SL_{24}	16.7	X	65.82533	99.92295	34.06710	6.07531	0.0395997	0.28996323	2.2606887	21	3 11.5	19.1
223022	2002 SQ_{30}	16.7	X	247.72972	258.25520	50.41827	6.65975	0.2031663	0.29295112	2.2452909	21	2 18.9	20.3
223023	2002 SM_{35}	17.5	X	163.49219	182.60785	158.57743	4.59378	0.2349900	0.28351858	2.2948186	21	1 17.7	20.9
223024	2002 SV_{41}	16.3	X	34.58890	296.31472	197.32301	22.61241	0.2518977	0.28129134	2.3069162	21	1 2.9	18.6
223025	2002 SS_{42}	16.5	X	219.66519	133.06418	199.89645	6.21563	0.1426872	0.29063576	2.2571999	21	2 20.6	20.0
223026	2002 SB_{45}	17.7	X	143.82360	249.03870	119.26162	1.65245	0.2077559	0.28295447	2.2978676	21	1 29.9	20.7
223027	2002 ST_{51}	16.6	X	177.45089	272.47489	69.29654	7.61442	0.1652858	0.28645782	2.2790941	21	1 27.6	20.0
223028	2002 SL_{52}	16.8	X	87.50863	316.78207	80.24072	8.33469	0.0948823	0.27923167	2.3182464	21	—	—
223029	2002 SV_{71}	16.3	X	166.11962	200.65925	130.60190	8.71845	0.1643365	0.28286150	2.2983711	21	1 1.3	19.6
223030	2002 TD_{1}	16.7	X	140.81356	352.91929	50.79288	2.73830	0.1229132	0.28764769	2.2728047	21	3 3.8	19.6
223031	2002 TF_{13}	17.6	X	154.44217	356.29595	1.37173	3.47487	0.1546197	0.28335255	2.2957149	21	1 22.3	20.7
223032	2002 TT_{15}	16.5	X	115.13161	326.46801	26.99601	7.42717	0.2065952	0.27821951	2.3238656	21	—	—
223033	2002 TZ_{15}	17.5	X	111.36925	175.20060	224.66932	1.70152	0.2029063	0.28229150	2.3014640	21	1 29.8	19.9
223034	2002 TW_{19}	16.8	X	112.78637	35.95201	26.17838	7.54519	0.1549672	0.28449283	2.2895765	21	2 27.8	19.5
223035	2002 TL_{25}	16.4	X	211.37661	90.37837	204.24096	6.72294	0.1217779	0.28321050	2.2964825	21	—	—
223036	2002 TU_{31}	16.7	X	140.55704	156.47328	187.98629	5.80539	0.1510645	0.27899860	2.3195373	21	—	—
223037	2002 TU_{33}	16.6	X	53.65407	144.87220	15.54713	3.90361	0.0806359	0.29206470	2.2498315	21	3 31.6	18.7
223038	2002 TF_{35}	16.9	X	88.63418	11.46916	66.99142	5.57911	0.1813807	0.28180075	2.3041351	21	2 17.3	19.1
223039	2002 TG_{50}	16.5	X	97.03790	351.60665	24.14481	6.35582	0.1487306	0.27494280	2.3422926	21	—	—
223040	2002 TJ_{50}	16.7	X	64.74351	333.23538	98.52174	4.24280	0.2100212	0.27559427	2.3385999	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
223041 2002 TR_{50}	16.3	X	92.57270	314.74911	120.53562	4.20935	0.2171989	0.28001143	2.3139406	21	2 24.5	18.6
223042 2002 TN_{56}	16.4	X	142.55070	186.78365	217.84496	8.21656	0.3024315	0.28584259	2.2823632	21	3 23.4	20.1
223043 2002 TM_{71}	16.3	X	202.91775	20.55545	274.46101	6.20949	0.1264570	0.28233451	2.3012303	21	—	—
223044 2002 TP_{71}	16.3	X	145.73075	12.56714	343.34174	7.45089	0.1315726	0.28168375	2.3047731	21	1 7.3	19.3
223045 2002 TV_{74}	17.1	X	163.21655	257.39806	88.98285	4.13158	0.2012389	0.28444264	2.2898459	21	1 21.6	20.4
223046 2002 TV_{76}	16.2	X	322.54394	195.64169	351.77328	7.03899	0.0527281	0.28170170	2.3046753	21	—	—
223047 2002 TQ_{80}	17.1	X	242.08489	89.91825	223.64115	3.93739	0.1383130	0.29115288	2.2545264	21	2 17.9	20.4
223048 2002 TX_{81}	17.0	X	140.24521	359.00639	43.42356	6.38305	0.1987220	0.28659510	2.2783663	21	3 12.8	20.2
223049 2002 TC_{85}	16.9	X	101.22448	325.12096	81.88828	6.60372	0.1855159	0.28007320	2.3136004	21	1 23.4	19.2
223050 2002 TS_{91}	17.1	X	168.81138	44.84478	304.12816	3.01556	0.2945607	0.28501190	2.2867958	21	2 5.7	20.7
223051 2002 TS_{95}	16.6	X	186.36795	23.72507	254.62405	7.28076	0.0920034	0.27773372	2.3265746	21	—	—
223052 2002 TR_{105}	15.4	X	358.20403	203.29118	276.74462	4.04927	0.1265266	0.17150101	3.2084228	21	—	—
223053 2002 TA_{132}	16.6	X	184.96345	321.78296	322.49037	5.91624	0.1069122	0.27854967	2.3220289	21	—	—
223054 2002 TR_{134}	14.7	X	230.02604	119.63057	317.68720	8.92361	0.0778915	0.14638149	3.5657039	21	7 27.7	19.9
223055 2002 TZ_{150}	16.9	X	214.29717	300.68800	337.08227	3.57953	0.1498968	0.28276148	2.2989131	21	—	—
223056 2002 TS_{182}	16.6	X	184.36931	27.24533	271.40863	4.86617	0.1723024	0.28185381	2.3038460	21	—	—
223057 2002 TD_{183}	16.4	X	62.69429	184.42223	317.10394	7.05255	0.0200014	0.29175174	2.2514402	21	3 9.9	19.0
223058 2002 TA_{190}	16.4	X	102.22953	59.77281	308.55881	6.02780	0.1243731	0.27707012	2.3302879	21	—	—
223059 2002 TR_{198}	16.5	X	158.61490	10.43146	306.23855	5.07151	0.1538020	0.27893062	2.3199142	21	—	—
223060 2002 TN_{200}	16.6	X	136.85915	21.82785	337.79299	5.36117	0.1853302	0.28204358	2.3028125	21	1 8.4	19.5
223061 2002 TX_{205}	16.9	X	164.52175	16.45948	314.23711	3.55954	0.1459710	0.28071897	2.3100508	21	—	—
223062 2002 TS_{207}	17.0	X	117.56593	36.24204	341.47664	2.58106	0.1852333	0.27895028	2.3198052	21	1 7.1	19.4
223063 2002 TX_{207}	16.7	X	103.57916	27.93643	348.36218	3.96862	0.1224877	0.27643134	2.3338765	21	—	—
223064 2002 TW_{224}	17.1	X	79.67559	329.96600	60.34264	4.35365	0.1907927	0.27485648	2.3427830	21	—	—
223065 2002 TY_{228}	16.6	X	97.44914	312.93568	90.28022	5.00376	0.2591054	0.27895477	2.3197803	21	1 24.2	18.7
223066 2002 TJ_{231}	16.1	X	84.71859	16.65667	19.20200	25.87909	0.2627924	0.27808020	2.3246416	21	—	—
223067 2002 TB_{239}	16.2	X	186.35030	85.01688	249.52265	5.41508	0.1656520	0.28448573	2.2896146	21	1 24.1	19.8
223068 2002 TO_{239}	16.9	X	232.49533	302.38721	5.99014	6.16584	0.1457698	0.28862076	2.2676934	21	2 6.1	20.3
223069 2002 TJ_{240}	17.2	X	140.43450	55.98985	284.49813	1.45612	0.1873720	0.27888388	2.3201734	21	—	—
223070 2002 TV_{243}	17.4	X	101.50550	258.61599	186.91144	7.56180	0.1545323	0.28643846	2.2791968	21	3 11.2	19.9
223071 2002 TX_{243}	17.3	X	84.39946	84.66590	329.23000	1.10655	0.2188475	0.27750770	2.3278376	21	1 7.3	18.9
223072 2002 TQ_{250}	16.7	X	114.92715	14.20165	30.05457	3.52590	0.1622488	0.28082266	2.3094822	21	2 5.8	19.3
223073 2002 TM_{255}	16.5	X	128.68718	139.02953	220.93607	5.48233	0.1600498	0.27884352	2.3203973	21	—	—
223074 2002 TB_{256}	17.7	X	155.03838	118.66662	224.57619	2.89254	0.3367390	0.28297657	2.2977480	21	1 22.0	21.4
223075 2002 TZ_{258}	16.9	X	114.17792	194.56010	191.62081	6.03922	0.1760271	0.27848368	2.3223957	21	1 10.8	19.5
223076 2002 TJ_{259}	16.4	X	176.41844	207.91187	128.79420	3.68789	0.2257387	0.28259069	2.2998393	21	1 23.6	20.0
223077 2002 TR_{260}	16.3	X	100.14834	9.82705	69.32895	8.13372	0.2152713	0.28101982	2.3084019	21	3 17.5	19.1
223078 2002 TK_{262}	16.9	X	248.95520	256.90632	46.03139	7.19451	0.1195038	0.28977498	2.2616677	21	2 17.7	20.2
223079 2002 TX_{269}	16.9	X	121.04341	89.44239	318.35539	4.28810	0.1213478	0.28435756	2.2903026	21	2 10.4	19.5
223080 2002 TT_{270}	16.9	X	148.03911	63.24286	343.52310	5.45163	0.1287104	0.28790647	2.2714426	21	3 15.0	20.0
223081 2002 TF_{278}	16.1	X	65.51661	104.30684	273.58558	6.90040	0.1452293	0.27188407	2.3598272	21	—	—
223082 2002 TK_{283}	16.7	X	117.17566	12.44096	4.52522	6.78807	0.1263285	0.27839225	2.3229042	21	—	—
223083 2002 TS_{284}	16.6	X	185.33722	73.70225	248.86270	4.62011	0.1875683	0.28240081	2.3008700	21	1 10.9	20.1
223084 2002 TX_{284}	16.8	X	104.62520	32.53586	356.16971	3.41990	0.1345229	0.27777238	2.3263587	21	—	—
223085 2002 TL_{285}	16.3	X	79.90522	125.32625	245.50019	7.10168	0.1780185	0.27221953	2.3578882	21	—	—
223086 2002 TY_{288}	16.6	X	150.82745	3.03474	21.83280	7.26479	0.1737762	0.28355048	2.2946465	21	2 26.7	19.8
223087 2002 TX_{289}	16.4	X	152.63525	10.90464	5.36829	7.05704	0.1196825	0.28187746	2.3037171	21	2 11.0	19.5
223088 2002 TX_{291}	16.3	X	141.93807	335.76796	20.25027	7.93165	0.2274782	0.27894794	2.3198182	21	1 17.3	19.6
223089 2002 TX_{360}	18.3	X	113.07289	339.02889	32.82490	4.58859	0.2468480	0.27941127	2.3172529	21	1 2.4	20.7
223090 2002 TX_{372}	16.6	X	185.96137	182.29473	131.60025	7.70199	0.1404578	0.28235166	2.3011371	21	—	—
223091 2002 TY_{381}	16.9	X	176.84596	259.40247	27.25979	6.69880	0.1888249	0.27745523	2.3281311	21	—	—
223092 2002 UY_{9}	17.1	X	156.87833	345.87840	313.93688	3.99340	0.2181258	0.27795041	2.3253652	21	—	—
223093 2002 UJ_{11}	17.1	X	89.89657	61.99353	11.58127	5.52940	0.1245252	0.28112440	2.3078294	21	2 2.7	19.5
223094 2002 UH_{17}	17.5	X	109.82052	321.31378	60.08576	4.68610	0.2308890	0.27812196	2.3244089	21	1 8.5	19.8
223095 2002 UG_{19}	16.7	X	117.94366	124.05099	218.14159	1.68688	0.2255144	0.27475935	2.3433351	21	—	—
223096 2002 UQ_{21}	16.1	X	277.94358	178.98765	55.79852	8.00113	0.0768128	0.28095173	2.3087748	21	—	—
223097 2002 UV_{31}	16.7	X	236.72171	23.22088	272.96480	5.96089	0.2418225	0.28829743	2.2693886	21	1 21.4	20.6
223098 2002 UF_{33}	16.9	X	48.39274	50.66785	11.53613	6.69284	0.0907801	0.27322826	2.3520812	21	—	—
223099 2002 UO_{35}	17.0	X	73.30025	43.33935	30.59417	3.52994	0.1270782	0.27827645	2.3235485	21	1 3.8	19.2
223100 2002 UU_{35}	16.9	X	121.52665	351.00317	77.55417	2.43543	0.1671736	0.28463650	2.2888060	21	3 20.1	19.7
223101 2002 UX_{40}	17.2	X	64.32592	208.33618	211.77747	5.00478	0.1996234	0.27472512	2.3435298	21	—	—
223102 2002 UP_{44}	17.2	X	60.75556	85.93411	8.86259	1.68434	0.1504619	0.27955383	2.3164650	21	1 11.8	19.0
223103 2002 UT_{51}	15.7	X	316.37547	241.29432	232.39255	11.41345	0.1232693	0.16979273	3.2299067	21	12 26.7	19.7
223104 2002 US_{66}	17.6	X	304.47815	23.26187	169.89114	5.88439	0.0402026	0.28066927	2.3103236	21	—	—
223105 2002 VC_{5}	16.6	X	164.77746	105.33919	234.87690	23.17130	0.2246802	0.28121225	2.3073486	21	1 11.1	20.6
223106 2002 VC_{7}	16.9	X	121.32869	36.69676	344.93186	2.07709	0.2157639	0.27903131	2.3193561	21	1 22.7	19.6
223107 2002 VA_{13}	16.7	X	163.45288	319.72523	12.18358	2.85846	0.2321800	0.28062230	2.3105813	21	1 7.4	20.1
223108 2002 VK_{13}	17.0	X	170.20240	284.31984	40.70568	2.83592	0.1812472	0.27948044	2.3168706	21	—	—
223109 2002 VW_{15}	16.9	X	120.15760	300.24641	80.67808	7.04560	0.2127440	0.27772611	2.3266171	21	1 20.5	19.6
223110 2002 VO_{16}	16.6	X	333.74267	92.93645	25.86075	7.46707	0.0714152	0.27046176	2.3680932	21	—	—
223111 2002 VX_{21}	17.0	X	104.79054	343.13494	339.82431	1.04507	0.1939720	0.27118762	2.3638658	21	—	—
223112 2002 VP_{22}	17.4	X	124.93562	186.36103	231.72813	3.04789	0.1368784	0.28430667	2.2905759	21	3 2.7	20.3
223113 2002 VL_{23}	16.6	X	68.17826	8.84480	41.25145	7.06758	0.1056430	0.27382786	2.3486464	21	—	—
223114 2002 VX_{29}	16.8	X	28.44332	223.04278	240.29142	2.88193	0.1679137	0.27352283	2.3503922	21	—	—
223115 2002 VE_{30}	17.1	X	157.78942	136.45591	210.10133	2.53071	0.2279913	0.28046418	2.3114497	21	1 18.7	20.4
223116 2002 VJ_{30}	17.2	X	147.64557	154.24759	234.55046	4.60930	0.1619500	0.28298829	2.2976845	21	2 21.8	20.5
223117 2002 VS_{30}	17.3	X	82.33780	5.79522	52.47719	1.47806	0.2131322	0.27645078	2.3337670	21	1 9.3	19.0
223118 2002 VU_{31}	16.7	X	44.37750	359.86101	68.62989	3.63006	0.1516257	0.27185269	2.3600088	21	—	—
223119 2002 VN_{32}	16.4	X	68.47800	340.08488	61.09901	13.33724	0.1860295	0.27247729	2.3564009	21	—	—
223120 2002 VZ_{32}	17.3	X	112.51128	121.13134	246.48238	0.98721	0.2203277	0.27558100	2.3386750	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
223121 2002 VN_{33}	16.5	X	156.17519	134.53682	242.24626	6.08971	0.1150484	0.28168562	2.3047630	21	2 10.0	19.7
223122 2002 VP_{33}	16.7	X	126.84175	300.76467	65.36219	3.86337	0.2392273	0.27755467	2.3275750	21	1 13.1	19.6
223123 2002 VL_{39}	16.9	X	82.69109	282.00631	85.21346	7.82756	0.2122801	0.27241151	2.3567802	21	—	—
223124 2002 VX_{45}	17.4	X	92.50325	27.53377	73.89639	2.30806	0.1676385	0.28364587	2.2941320	21	3 25.4	19.8
223125 2002 VE_{49}	16.8	X	69.14169	194.16843	180.31063	4.62921	0.2545914	0.27085009	2.3658292	21	—	—
223126 2002 VJ_{57}	16.8	X	132.32122	274.67287	61.60244	6.36480	0.1165667	0.27576004	2.3376626	21	—	—
223127 2002 VT_{61}	17.0	X	91.75723	130.77417	257.05004	4.34607	0.1370328	0.27548805	2.3392010	21	—	—
223128 2002 VC_{63}	16.5	X	135.60191	53.71870	302.50580	4.67635	0.1904604	0.27845377	2.3225620	21	1 3.3	19.4
223129 2002 VD_{67}	16.9	X	115.87152	77.83807	265.98153	1.39602	0.1504941	0.27477348	2.3432547	21	—	—
223130 2002 VC_{73}	17.3	X	93.37275	282.84544	134.93236	2.51951	0.1184851	0.27881006	2.3205829	21	1 14.1	19.7
223131 2002 VE_{75}	16.3	X	2.43786	44.92474	69.94332	8.83405	0.0740388	0.27298273	2.3534913	21	—	—
223132 2002 VR_{76}	16.3	X	151.24729	234.08353	80.72419	10.01093	0.2171040	0.27571293	2.3379289	21	—	—
223133 2002 VB_{82}	16.5	X	14.06067	240.06737	222.63748	10.71931	0.1420921	0.27052059	2.3677499	21	—	—
223134 2002 VJ_{86}	17.1	X	79.60651	140.31496	289.82690	2.05310	0.1432979	0.27919161	2.3184682	21	1 11.1	19.1
223135 2002 VN_{87}	16.6	X	64.65122	0.97640	31.85402	7.84685	0.1127032	0.27133603	2.3630037	21	—	—
223136 2002 VM_{97}	17.1	X	109.53357	79.38823	273.80691	3.34273	0.2564328	0.27487426	2.3426820	21	—	—
223137 2002 VW_{102}	16.8	X	25.95459	104.89498	21.28053	6.43169	0.0743783	0.27818461	2.3240599	21	—	—
223138 2002 VP_{114}	17.3	X	25.78970	349.36465	77.60941	1.83384	0.1984402	0.26893652	2.3770384	21	—	—
223139 2002 VD_{120}	15.7	X	118.08701	97.94351	259.23072	18.30321	0.2688458	0.27549736	2.3391483	21	—	—
223140 2002 VF_{129}	16.7	X	207.87595	119.08262	229.41686	5.57686	0.1425489	0.28939754	2.2636338	21	2 28.5	20.2
223141 2002 VL_{131}	16.6	X	35.80059	276.95652	217.41738	3.84790	0.0811028	0.27976379	2.3153059	21	1 21.6	19.0
223142 2002 WZ_{1}	16.9	X	11.79036	28.91323	79.84614	5.88389	0.1128045	0.27231565	2.3573333	21	—	—
223143 2002 WK_{3}	17.2	X	95.51890	55.16374	320.41711	4.42211	0.1735785	0.27441220	2.3453110	21	—	—
223144 2002 WL_{8}	16.6	X	140.00970	116.86006	221.54679	2.34170	0.2478310	0.27668485	2.3324507	21	—	—
223145 2002 WX_{8}	15.8	X	134.95138	281.54689	87.60355	22.41862	0.3438671	0.28032167	2.3122330	21	2 12.5	19.7
223146 2002 WG_{10}	17.2	X	74.77601	251.84589	134.19278	3.70020	0.2260474	0.27217299	2.3581569	21	—	—
223147 2002 WU_{13}	16.8	X	29.38528	253.94249	201.50679	4.66135	0.1955135	0.27258167	2.3557993	21	—	—
223148 2002 WZ_{22}	17.2	X	157.42248	238.74567	75.62185	6.74511	0.1096403	0.27388442	2.3483230	21	—	—
223149 2002 WG_{26}	17.9	X	70.35763	260.57648	140.55448	2.75934	0.1999233	0.27313717	2.3526041	21	—	—
223150 2002 XA_{1}	17.2	X	43.05643	69.50641	329.89562	3.77572	0.1644591	0.27203107	2.3589770	21	—	—
223151 2002 XP_{8}	16.5	X	18.08145	140.85331	251.17312	6.76300	0.0754205	0.26355304	2.4092990	21	—	—
223152 2002 XE_{22}	17.1	X	339.14104	139.00532	8.82183	5.11351	0.2008590	0.27024164	2.3693790	21	—	—
223153 2002 XR_{27}	16.3	X	164.49318	57.09165	252.81378	6.08119	0.1339362	0.27378949	2.3488658	21	—	—
223154 2002 XS_{33}	16.4	X	55.85421	36.45319	358.32869	6.84361	0.1129684	0.27008660	2.3702857	21	—	—
223155 2002 XY_{34}	17.3	X	353.53760	117.08609	336.96002	1.91619	0.1694836	0.26687074	2.3892894	21	—	—
223156 2002 XP_{35}	16.6	X	14.00287	31.58929	80.26948	13.25099	0.1382739	0.27227897	2.3575450	21	—	—
223157 2002 XF_{42}	16.5	X	328.66561	118.50043	282.16679	4.66580	0.2034598	0.25673652	2.4517581	21	10 31.4	18.5
223158 2002 XU_{49}	16.9	X	42.46632	153.59746	263.35730	6.33289	0.0920043	0.26922870	2.3753183	21	—	—
223159 2002 XX_{49}	16.9	X	117.06383	51.17476	333.44815	4.82847	0.2232417	0.27786899	2.3258194	21	1 22.8	19.6
223160 2002 XK_{50}	17.1	X	60.59821	87.14735	44.71013	3.22804	0.1262291	0.28120919	2.3073654	21	3 8.8	19.1
223161 2002 XD_{71}	16.2	X	4.24627	171.44228	288.24374	4.75429	0.1092275	0.26762351	2.3848069	21	—	—
223162 2002 XV_{75}	17.5	X	357.84972	124.32982	332.43703	2.91309	0.2024962	0.26635783	2.3923556	21	—	—
223163 2002 XZ_{85}	16.7	X	41.46395	130.73565	310.61402	5.71534	0.2218801	0.27152785	2.3618907	21	—	—
223164 2002 XD_{86}	16.7	X	350.62666	127.55568	326.04168	4.30193	0.1502942	0.26512059	2.3997928	21	—	—
223165 2002 XB_{87}	16.4	X	284.61658	192.87778	307.86943	8.00342	0.2004227	0.26001737	2.4310906	21	12 29.8	18.6
223166 2002 XE_{101}	16.5	X	92.54862	298.80152	82.23172	10.73122	0.1050686	0.27240458	2.3568202	21	—	—
223167 2002 XT_{102}	17.3	X	76.97317	226.91123	197.36938	1.51483	0.1994213	0.27563004	2.3383976	21	1 4.7	19.1
223168 2002 XX_{112}	17.1	X	90.04942	86.07747	331.40052	2.11346	0.1183153	0.27629604	2.3346383	21	1 9.3	19.3
223169 2002 XQ_{115}	16.4	X	24.60841	354.02452	42.47874	6.13395	0.2122276	0.26209036	2.4182546	21	—	—
223170 2002 YP_{7}	17.0	X	36.31399	323.20898	109.22920	5.82146	0.2751349	0.26801467	2.3824859	21	—	—
223171 2002 YU_{10}	16.1	X	253.96357	246.59508	278.57152	7.53661	0.1454331	0.25775110	2.4453200	21	12 18.0	19.0
223172 2002 YN_{14}	17.0	X	350.58596	346.24191	102.60126	1.36960	0.1091492	0.26269284	2.4145557	21	—	—
223173 2002 YG_{21}	16.4	X	45.93114	125.87207	264.02209	5.54790	0.1162815	0.26609945	2.3939040	21	—	—
223174 2002 YF_{22}	16.9	X	303.08903	169.20736	348.48314	1.03969	0.2181089	0.26407273	2.4061370	21	—	—
223175 2002 YP_{25}	16.8	X	10.33288	1.03988	79.10204	2.52579	0.1614547	0.26568208	2.3964105	21	—	—
223176 2002 YC_{26}	16.7	X	287.22526	65.52539	123.41225	2.13792	0.1930298	0.26501280	2.4004435	21	—	—
223177 2002 YE_{27}	17.1	X	68.43342	167.19938	269.88913	1.32618	0.1879028	0.27369673	2.3493965	21	1 5.4	18.9
223178 2003 AA_{4}	15.7	X	24.11492	291.04169	204.37216	22.35761	0.3135314	0.27354287	2.3502773	21	—	—
223179 2003 AO_{5}	16.3	X	117.72262	42.89816	142.92437	5.48946	0.1707399	0.23772247	2.5808092	21	8 21.4	20.3
223180 2003 AQ_{15}	17.2	X	320.54259	120.06651	26.16208	2.53160	0.1323034	0.26616849	2.3934900	21	—	—
223181 2003 AO_{18}	16.5	X	21.31517	356.34298	82.02710	6.61863	0.0887153	0.26705689	2.3881789	21	—	—
223182 2003 AQ_{29}	16.5	X	0.45249	235.74882	254.91082	1.94199	0.1332412	0.26804382	2.3823132	21	—	—
223183 2003 AE_{40}	16.4	X	299.16453	259.86390	227.18253	3.63479	0.1517982	0.25861708	2.4398581	21	—	—
223184 2003 AR_{44}	17.2	X	36.20650	65.27533	32.38763	4.41043	0.1865461	0.27145019	2.3623412	21	—	—
223185 2003 AR_{49}	17.0	X	25.64020	57.72663	8.43984	2.42793	0.1694686	0.26577105	2.3958756	21	—	—
223186 2003 AZ_{49}	16.9	X	338.59493	151.82918	318.97418	4.13557	0.1053890	0.26365021	2.4087070	21	—	—
223187 2003 AK_{50}	16.5	X	349.83964	25.09080	85.45239	6.80144	0.1078805	0.26515517	2.3995841	21	—	—
223188 2003 AP_{51}	17.0	X	8.56395	68.90471	23.67376	2.87241	0.1219130	0.26557789	2.3970717	21	—	—
223189 2003 AF_{52}	16.6	X	301.37560	142.54988	353.11890	2.92718	0.1203717	0.26061239	2.4273888	21	—	—
223190 2003 AP_{53}	16.9	X	345.86264	61.32361	80.10035	5.44469	0.1273395	0.26755091	2.3852383	21	—	—
223191 2003 AV_{59}	16.5	X	319.28272	87.70844	13.08379	1.54963	0.1421407	0.25833915	2.4416078	21	—	—
223192 2003 AQ_{63}	16.8	X	169.87608	309.11009	96.76723	5.07962	0.1529802	0.28495462	2.2871022	21	4 12.4	20.2
223193 2003 AX_{71}	17.2	X	101.17820	168.06509	239.34578	1.58833	0.2042791	0.27541166	2.3396335	21	1 26.6	19.4
223194 2003 BP_{4}	16.7	X	339.42586	91.10729	178.27725	8.43560	0.2037962	0.22833341	2.6510815	21	4 28.1	19.4
223195 2003 BW_{8}	16.7	X	278.72462	332.85306	163.06085	6.99787	0.0815349	0.25654404	2.4529843	21	12 24.8	19.6
223196 2003 BX_{19}	16.6	X	344.76788	67.06002	24.32402	5.13282	0.1571861	0.26018839	2.4300252	21	—	—
223197 2003 BD_{20}	16.4	X	9.31922	346.64589	79.38354	7.25512	0.1182858	0.26038095	2.4288269	21	—	—
223198 2003 BP_{20}	16.3	X	307.28454	62.24465	56.14062	3.04063	0.1456158	0.25824366	2.4422096	21	—	—
223199 2003 BM_{29}	16.7	X	226.51354	331.47099	218.13586	2.43450	0.1293612	0.25604541	2.4561679	21	12 15.5	19.9
223200 2003 BF_{30}	17.1	X	295.69988	347.12557	129.19625	3.18366	0.1283980	0.25684614	2.4510604	21	12 21.4	19.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
223201 2003 BL_{30}	16.5	X	14.58956	102.80523	333.01363	1.15971	0.1436411	0.26371403	2.4083183	21	—	—
223202 2003 BQ_{31}	16.6	X	215.91098	241.88177	311.23550	1.70664	0.1307989	0.25331051	2.4738152	21	12 6.5	20.0
223203 2003 BH_{35}	15.9	X	77.18541	205.21023	26.10666	12.81390	0.1194708	0.23731381	2.5837711	21	9 3.8	19.6
223204 2003 BX_{38}	16.8	X	284.18777	304.91098	223.91992	1.63311	0.1624940	0.26070094	2.4268391	21	—	—
223205 2003 BK_{39}	17.1	X	336.27386	298.15736	136.08891	3.02513	0.1690639	0.25804773	2.4434457	21	—	—
223206 2003 BS_{44}	16.6	X	306.24118	34.35670	90.65911	3.45786	0.1375650	0.25870893	2.4392806	21	—	—
223207 2003 BY_{47}	16.7	X	316.93986	116.43115	320.14376	8.78703	0.1810168	0.25440808	2.4666949	21	11 29.6	19.0
223208 2003 BQ_{48}	16.9	X	337.28327	285.78392	226.08736	1.43203	0.1416603	0.26528269	2.3988151	21	—	—
223209 2003 BL_{49}	16.9	X	329.12208	11.71219	102.18551	3.31156	0.1516623	0.26173532	2.4204410	21	—	—
223210 2003 BW_{51}	16.4	X	11.24564	89.79796	325.50784	6.57103	0.1883947	0.25971449	2.4329803	21	—	—
223211 2003 BE_{57}	15.0	X	108.06190	325.78730	162.69220	3.10341	0.1700803	0.12413708	3.9798653	21	6 1.0	20.9
223212 2003 BY_{58}	16.0	X	64.08179	324.46665	300.40126	7.95440	0.0760587	0.24231247	2.5481141	21	9 14.9	19.4
223213 2003 BT_{62}	16.4	X	269.20792	75.90025	74.49580	7.30585	0.0665178	0.25624351	2.4549019	21	12 31.8	19.4
223214 2003 BX_{65}	17.5	X	26.38512	308.53061	150.92241	2.00720	0.1470000	0.26761321	2.3848680	21	—	—
223215 2003 BR_{76}	16.7	X	72.65713	331.70956	88.13052	10.69584	0.2481168	0.27072227	2.3665739	21	—	—
223216 2003 BM_{81}	16.5	X	192.29424	212.18099	287.91394	4.18059	0.1452409	0.24258692	2.5461919	21	9 1.3	20.6
223217 2003 BO_{83}	17.2	X	26.73587	231.91260	222.64003	1.97204	0.1706821	0.26721916	2.3872120	21	—	—
223218 2003 CK_{7}	16.4	X	179.78083	63.58839	81.64398	3.19391	0.1395931	0.24134545	2.5549161	21	8 30.0	20.4
223219 2003 CH_{9}	17.1	X	15.39068	257.90311	200.80568	4.68095	0.2042869	0.26651126	2.3914374	21	—	—
223220 2003 CW_{18}	15.9	X	143.17263	181.24212	27.97299	8.08678	0.1568436	0.24261066	2.5460258	21	10 14.1	19.8
223221 2003 CF_{25}	17.1	X	5.58576	118.00381	325.43731	3.41420	0.2071779	0.26213802	2.4179614	21	—	—
223222 2003 DY	17.2	X	6.14623	251.73820	198.88833	1.94197	0.1680706	0.26344663	2.4099477	21	—	—
223223 2003 DY_{5}	16.7	X	314.34468	353.49501	87.54531	1.63148	0.1827798	0.25417117	2.4682275	21	12 2.5	18.4
223224 2003 DN_{7}	16.3	X	336.10185	324.28940	108.35485	3.31605	0.1547245	0.25574303	2.4581035	21	—	—
223225 2003 DW_{7}	16.8	X	67.62826	35.87983	185.32342	2.28228	0.1236810	0.23149939	2.6268553	21	7 31.9	20.2
223226 2003 DW_{13}	17.1	X	359.40371	310.73013	146.98005	3.46431	0.1959077	0.26287526	2.4134385	21	—	—
223227 2003 DP_{14}	16.5	X	309.13381	49.39184	97.89469	7.92445	0.1828240	0.25927086	2.4357548	21	—	—
223228 2003 DV_{16}	15.6	X	196.96415	20.77506	330.30753	13.68552	0.0358747	0.22084437	2.7106815	21	2 28.2	19.4
223229 2003 DE_{18}	16.5	X	17.34763	18.45974	47.76959	4.51986	0.1811136	0.26208827	2.4182674	21	—	—
223230 2003 DH_{21}	15.5	X	125.96562	333.84671	42.66015	8.81740	0.2814570	0.27189542	2.3597616	21	2 4.8	18.8
223231 2003 DT_{21}	17.2	X	237.22573	275.68620	9.35599	19.73084	0.0440641	0.37483663	1.9050572	21	—	—
223232 2003 DA_{24}	16.3	X	89.37060	64.30027	165.16634	4.90202	0.1059216	0.23762520	2.5815134	21	9 8.4	19.8
223233 2003 ET_{8}	16.2	X	169.63368	291.97983	242.42316	3.50740	0.0582322	0.24281316	2.5446100	21	9 24.7	19.8
223234 2003 EC_{9}	15.8	X	137.80022	253.48798	327.12274	10.97464	0.0833706	0.24354971	2.5394771	21	10 14.9	19.7
223235 2003 EY_{22}	16.3	X	146.20245	166.67559	1.41661	9.76575	0.1368853	0.23630229	2.5911393	21	8 27.4	20.3
223236 2003 EG_{32}	17.0	X	118.25030	342.14134	248.73304	0.50096	0.0850168	0.24170455	2.5523849	21	10 11.8	20.7
223237 2003 EJ_{34}	16.4	X	119.48609	319.60528	205.16147	7.07021	0.1498443	0.23305144	2.6151796	21	7 22.6	20.5
223238 2003 EY_{42}	13.3	X	268.20513	285.82842	184.02557	18.32297	0.0285479	0.08283542	5.2118510	21	10 18.5	20.2
223239 2003 EZ_{46}	15.7	X	101.89210	333.79367	219.27076	13.97814	0.0645299	0.23188264	2.6239601	21	7 26.4	19.6
223240 2003 EY_{52}	15.6	X	25.49935	215.18036	44.16265	13.47010	0.1200403	0.22986394	2.6393004	21	7 21.4	18.8
223241 2003 FE_{4}	16.1	X	197.15140	68.69879	15.75808	22.31599	0.0520646	0.23066311	2.6332007	21	7 2.9	20.4
223242 2003 FS_{14}	16.6	X	122.68239	329.60990	186.03564	10.38861	0.1081562	0.23111233	2.6297874	21	7 10.2	20.6
223243 2003 FN_{18}	17.2	X	288.23409	313.32633	145.35748	0.89369	0.0457178	0.24702721	2.5155880	21	11 20.4	20.3
223244 2003 FO_{28}	16.0	X	72.02484	357.75348	168.55291	15.26707	0.1169273	0.22306581	2.6926549	21	5 25.5	19.7
223245 2003 FR_{32}	16.1	X	75.50777	16.73497	177.76812	14.90568	0.0679898	0.22821122	2.6520277	21	6 27.2	19.9
223246 2003 FQ_{36}	16.4	X	351.55559	132.73002	198.97970	0.97972	0.1353561	0.23442941	2.6049216	21	8 31.7	19.0
223247 2003 FR_{51}	16.4	X	178.27682	353.66842	174.18213	7.47048	0.1580355	0.24001065	2.5643800	21	9 24.5	20.3
223248 2003 FB_{59}	16.3	X	164.17969	145.32527	27.13983	11.04242	0.1013028	0.23911257	2.5707970	21	9 20.9	20.2
223249 2003 FF_{59}	16.5	X	168.79935	144.27523	22.13750	9.31965	0.0991279	0.23885783	2.5726245	21	9 17.1	20.4
223250 2003 FJ_{67}	15.6	X	345.60273	244.64430	34.67142	12.77669	0.1561031	0.22441711	2.6818351	21	5 27.2	18.5
223251 2003 FB_{70}	12.6	X	6.26427	294.83965	91.90414	8.72931	0.0741486	0.08475172	5.1329895	21	11 11.3	19.2
223252 2003 FQ_{72}	15.8	X	60.68746	139.45526	123.37740	10.11036	0.0322866	0.23441287	2.6050441	21	9 7.1	19.2
223253 2003 FJ_{79}	15.7	X	63.72849	52.58930	203.83591	13.84649	0.0396540	0.23403074	2.6078791	21	8 27.3	19.3
223254 2003 FZ_{79}	16.0	X	317.37438	217.70842	73.95842	8.16683	0.2812057	0.21863001	2.7289539	21	4 11.4	19.4
223255 2003 FR_{81}	15.9	X	331.87673	353.37621	28.57047	14.65800	0.1661101	0.24099282	2.5574078	21	10 10.6	18.2
223256 2003 FL_{85}	16.2	X	48.06477	4.73283	214.79121	8.49199	0.0740897	0.22696460	2.6617298	21	6 22.3	19.6
223257 2003 FN_{85}	16.1	X	19.58236	259.62056	350.85901	10.47119	0.1569801	0.22552457	2.6730483	21	6 27.6	19.0
223258 2003 FO_{93}	15.9	X	126.03304	154.29408	45.55626	13.91521	0.0983487	0.23460246	2.6036404	21	9 18.5	20.0
223259 2003 FP_{95}	15.9	X	31.27362	42.26465	216.88351	8.48622	0.1027186	0.22986468	2.6392947	21	7 23.2	19.2
223260 2003 FW_{100}	16.4	X	302.92906	247.87649	24.45841	4.60419	0.1816551	0.21682176	2.7441055	21	3 11.2	20.1
223261 2003 FP_{104}	15.6	X	351.43884	218.63773	14.55287	12.97006	0.1891985	0.21806776	2.7336426	21	3 31.9	18.3
223262 2003 FK_{114}	15.5	X	341.41081	180.52267	179.97732	9.09284	0.1754761	0.23903957	2.5713203	21	9 25.4	17.5
223263 2003 FR_{124}	15.6	X	330.49340	346.52808	227.74949	8.21603	0.2090536	0.21222671	2.7835734	21	1 24.9	19.4
223264 2003 FG_{131}	16.3	X	155.69408	134.19099	10.30925	12.65178	0.0891041	0.23384847	2.6092340	21	8 7.1	20.4
223265 2003 GX_{1}	14.6	X	47.78777	237.82132	54.19129	22.28229	0.3131811	0.17645725	3.1480603	21	11 3.3	19.0
223266 2003 GO_{10}	15.9	X	3.72302	73.05434	169.17067	8.80266	0.1333037	0.22005111	2.7171921	21	5 14.9	18.9
223267 2003 GH_{13}	16.6	X	45.59161	121.37545	109.73451	1.25260	0.2144489	0.22740688	2.6582775	21	7 27.2	19.3
223268 2003 GZ_{21}	12.5	X	70.23477	299.66616	24.27457	26.10197	0.0649533	0.08374528	5.1740326	21	11 8.6	19.5
223269 2003 GB_{22}	16.7	X	299.52295	279.06992	216.60726	1.85867	0.1400117	0.25393608	2.4697507	21	—	—
223270 2003 GL_{27}	16.5	X	272.51142	352.45213	338.74683	1.56681	0.0313264	0.22366141	2.6878726	21	5 7.3	20.0
223271 2003 GY_{32}	16.8	X	148.57782	346.96613	176.26897	1.65625	0.1311432	0.23322185	2.6139056	21	8 19.9	20.8
223272 2003 GC_{33}	13.0	X	315.03019	226.89838	200.60945	6.91995	0.0728621	0.08064698	5.3057159	21	10 19.5	19.7
223273 2003 GJ_{35}	16.6	X	166.62873	358.92999	170.13717	10.12144	0.1590949	0.23835325	2.5762539	21	9 14.8	20.6
223274 2003 GP_{35}	17.2	X	72.39668	97.59604	50.29543	22.20591	0.0635368	0.38168792	1.8821914	21	4 10.1	19.0
223275 2003 GH_{41}	16.2	X	139.04319	134.13188	36.41518	13.51829	0.1076086	0.23289583	2.6163443	21	8 25.7	20.4
223276 2003 GG_{46}	16.7	X	91.20431	71.33692	134.69273	3.44774	0.0271507	0.23104840	2.6302725	21	7 28.9	20.1
223277 2003 GJ_{50}	16.3	X	92.80868	161.64845	69.80680	4.20358	0.0932408	0.23313706	2.6145393	21	9 15.5	19.9
223278 2003 GR_{53}	16.0	X	247.62342	208.18237	186.55681	10.63682	0.0549959	0.22824437	2.6517709	21	6 26.0	19.8
223279 2003 HS_{3}	16.2	X	305.46194	201.86351	49.67744	6.09581	0.0979484	0.21331551	2.7740935	21	3 2.3	20.0
223280 2003 HH_{9}	15.7	X	46.44422	216.27419	30.68663	14.54607	0.0274952	0.22852879	2.6495702	21	7 28.0	19.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
223281 2003 HM_{10}	15.6	X	259.22190	178.31911	120.53359	9.95617	0.1467967	0.21001499	2.8030823	21	3 2.8	20.0
223282 2003 HL_{17}	16.0	X	102.73151	339.34482	191.41392	14.10827	0.1323705	0.22792869	2.6542188	21	7 9.2	20.1
223283 2003 HG_{19}	16.3	X	253.53376	313.55248	70.47729	3.95022	0.1598360	0.22556021	2.6727667	21	6 6.4	20.1
223284 2003 HF_{20}	15.2	X	329.12232	193.63370	209.06250	9.82435	0.1982513	0.24145822	2.5541205	21	11 3.2	17.1
223285 2003 HF_{32}	16.0	X	286.33428	35.12856	220.37479	8.53355	0.1161418	0.20968162	2.8060526	21	2 4.3	20.3
223286 2003 HW_{32}	17.2	X	46.57090	295.96720	221.01246	20.29434	0.0747176	0.37785461	1.8948997	21	2 10.7	19.4
223287 2003 HW_{35}	15.6	X	340.94214	62.90518	185.84909	12.22873	0.1114957	0.21743030	2.7389830	21	4 14.5	18.9
223288 2003 HY_{45}	16.2	X	72.32550	180.57857	76.92818	5.32852	0.0919901	0.23241607	2.6199436	21	9 24.7	19.7
223289 2003 HH_{46}	15.9	X	44.91785	186.22332	16.56467	13.20029	0.2201966	0.22292643	2.6937772	21	6 12.3	19.0
223290 2003 HR_{47}	15.8	X	311.61477	263.51255	56.57079	14.84322	0.1401158	0.22228928	2.6989222	21	5 29.5	19.0
223291 2003 HN_{49}	16.9	X	123.18485	32.46234	52.69736	22.95356	0.0632055	0.37852708	1.8926548	21	3 30.1	19.3
223292 2003 HM_{52}	15.0	X	256.15309	195.98380	222.25589	32.27937	0.1726086	0.23235986	2.6203662	21	7 12.7	19.6
223293 2003 HM_{54}	16.4	X	79.81680	177.40869	20.99523	14.10538	0.0762325	0.22747044	2.6577823	21	7 13.6	20.2
223294 2003 HO_{55}	16.3	X	66.53244	126.07188	77.73011	3.80517	0.0512920	0.22533741	2.6745282	21	6 25.2	19.5
223295 2003 JS_{3}	16.6	X	17.96681	231.85774	49.48593	3.15567	0.0235760	0.22835879	2.6508850	21	7 30.2	20.0
223296 2003 JD_{6}	16.2	X	80.34038	96.39314	56.04256	5.71036	0.0515727	0.21933246	2.7231241	21	5 6.2	19.6
223297 2003 JP_{13}	16.2	X	305.42376	80.15993	174.66078	7.87082	0.1847226	0.21167839	2.7883783	21	2 17.8	20.1
223298 2003 JE_{18}	15.5	X	210.63407	59.22916	220.04445	19.93027	0.1722650	0.19967668	2.8990196	21	—	—
223299 2003 KL_{13}	16.2	X	54.39180	53.76706	171.33073	3.43520	0.0399553	0.22466764	2.6798410	21	7 5.2	19.6
223300 2003 KJ_{14}	16.3	X	163.11577	73.00595	31.10787	2.81289	0.0478505	0.22579394	2.6709219	21	6 15.9	20.0
223301 2003 NA_{3}	15.0	X	136.00608	201.60481	130.75166	11.84064	0.1429084	0.18754218	3.0227582	21	—	—
223302 2003 NH_{3}	13.8	X	76.27906	67.94553	261.37627	24.63770	0.2778430	0.17445528	3.1720983	21	—	—
223303 2003 NP_{3}	15.1	X	79.26055	58.36500	303.66102	15.32038	0.1284709	0.18221004	3.0814457	21	—	—
223304 2003 NF_{4}	15.3	X	133.40180	259.66127	135.69955	11.31033	0.1498432	0.19507559	2.9444269	21	3 1.5	19.7
223305 2003 NL_{6}	15.8	X	107.76363	194.42964	193.94275	12.83289	0.0297541	0.19316930	2.9637665	21	1 3.3	20.2
223306 2003 OV_{6}	15.1	X	121.89633	58.90926	277.06635	8.47372	0.0549346	0.18632857	3.0358694	21	—	—
223307 2003 OH_{12}	14.4	X	45.35915	131.94730	258.30181	15.52765	0.1989290	0.17728580	3.1382443	21	—	—
223308 2003 OK_{14}	15.3	X	107.26351	68.72361	218.52877	15.60663	0.2178038	0.17797351	3.1301547	21	12 9.1	20.6
223309 2003 OP_{15}	15.6	X	138.89766	113.86407	230.30483	9.17384	0.1345852	0.18826088	3.0150603	21	1 2.1	20.2
223310 2003 OK_{17}	14.9	X	53.03224	32.14047	319.76818	8.55461	0.0904100	0.17686326	3.1432406	21	12 16.5	19.4
223311 2003 OU_{27}	15.6	X	150.09318	172.40122	129.09312	3.00181	0.1556100	0.18542185	3.0457583	21	—	—
223312 2003 PM_{2}	15.4	X	178.72699	333.09666	314.13190	9.75626	0.0748246	0.18946122	3.0023121	21	—	—
223313 2003 PS_{5}	14.9	X	66.08912	91.77418	246.26026	5.11860	0.1433613	0.17623384	3.1507203	21	12 21.8	19.6
223314 2003 PX_{7}	15.2	X	143.09322	82.89537	269.06278	8.36908	0.0995239	0.19213615	2.9743814	21	1 11.3	19.6
223315 2003 QX_{4}	16.1	X	68.54739	140.03447	174.89901	8.48055	0.2294481	0.17461610	3.1701504	21	12 8.4	21.0
223316 2003 QF_{5}	14.8	X	353.46757	177.47652	270.91133	9.48658	0.1952180	0.17616280	3.1515673	21	—	—
223317 2003 QM_{10}	14.9	X	54.17904	105.01967	238.28935	24.63721	0.2122427	0.17276336	3.1927748	21	12 20.5	19.7
223318 2003 QT_{12}	15.3	X	66.37833	220.65634	123.17107	11.44118	0.2255264	0.17638910	3.1488711	21	—	—
223319 2003 QN_{18}	15.5	X	53.11639	237.04350	117.19948	3.75592	0.1917310	0.17469528	3.1691923	21	—	—
223320 2003 QR_{25}	15.5	X	69.03063	141.88058	180.56190	9.64289	0.0876939	0.17418169	3.1754191	21	11 30.7	20.2
223321 2003 QB_{28}	14.9	X	42.50634	93.71575	271.08868	9.64988	0.1743110	0.17412796	3.1760723	21	12 29.9	19.3
223322 2003 QJ_{34}	15.0	X	217.67883	271.69100	333.55978	12.07201	0.0623124	0.18735577	3.0247629	21	—	—
223323 2003 QG_{44}	15.4	X	325.19003	299.45637	170.66261	12.25277	0.0792334	0.18111886	3.0938097	21	—	—
223324 2003 QG_{46}	15.5	X	68.28156	231.78255	145.39987	2.56038	0.1672327	0.17999986	3.1066186	21	—	—
223325 2003 QZ_{47}	15.2	X	60.76460	145.79337	264.56948	8.91757	0.1517990	0.18389335	3.0626124	21	—	—
223326 2003 QV_{49}	15.2	X	74.30584	297.57732	24.35460	5.31268	0.1373255	0.17448787	3.1717033	21	12 10.2	20.0
223327 2003 QN_{53}	15.4	X	119.26029	215.12346	111.51647	3.08617	0.2586622	0.18232099	3.0801954	21	—	—
223328 2003 QX_{55}	14.9	X	46.78468	21.00328	11.15115	11.29944	0.1652740	0.17833159	3.1259632	21	—	—
223329 2003 QP_{59}	15.0	X	120.68252	299.07225	359.07338	16.01768	0.2180680	0.17847906	3.1242410	21	—	—
223330 2003 QL_{60}	14.7	X	53.63670	29.32821	2.09908	24.21308	0.1259275	0.17833655	3.1259053	21	—	—
223331 2003 QV_{65}	14.8	X	68.23484	14.93853	6.13499	10.99982	0.1087574	0.18076477	3.0978486	21	—	—
223332 2003 QO_{68}	15.3	X	140.22339	168.55395	157.39232	16.88642	0.0505151	0.18583466	3.0412462	21	—	—
223333 2003 QY_{70}	15.8	X	69.16460	329.75888	59.73087	5.46056	0.1674865	0.18146355	3.0898907	21	—	—
223334 2003 QU_{73}	15.8	X	36.16279	219.79964	167.70272	10.17584	0.0946217	0.17838564	3.1253317	21	—	—
223335 2003 QN_{74}	15.3	X	47.01251	131.71068	211.23007	4.92469	0.1843540	0.17348015	3.1839741	21	12 11.1	19.8
223336 2003 QP_{74}	16.1	X	172.50480	64.17057	246.73097	3.82619	0.2288755	0.18947842	3.0021303	21	1 3.3	21.2
223337 2003 QS_{74}	15.0	X	42.97137	39.13106	309.42245	11.94406	0.0733789	0.17406331	3.1768587	21	11 25.2	19.6
223338 2003 QK_{76}	15.2	X	79.07490	221.03739	209.32559	5.02094	0.1639000	0.18896009	3.0076178	21	2 5.0	18.9
223339 2003 QC_{89}	15.6	X	14.60546	77.43457	329.58778	9.44274	0.1467768	0.17622272	3.1508528	21	—	—
223340 2003 QT_{93}	15.3	X	56.44776	226.84067	110.59555	6.24924	0.1690295	0.17510200	3.1642830	21	12 13.9	19.8
223341 2003 QZ_{93}	15.3	X	47.37150	43.77922	347.18787	4.38073	0.1493681	0.18005068	3.1060341	21	—	—
223342 2003 QS_{96}	15.9	X	138.84320	81.26683	166.48200	1.31269	0.1322618	0.17588911	3.1548357	21	11 16.9	20.9
223343 2003 QH_{100}	15.6	X	75.35939	173.30362	242.57730	1.45746	0.1415553	0.18699558	3.0286458	21	1 11.2	19.3
223344 2003 QJ_{106}	15.0	X	21.80066	193.56419	193.31023	17.34542	0.2027861	0.17370386	3.1812397	21	12 31.6	19.4
223345 2003 QP_{107}	15.1	X	150.82681	241.45812	71.26184	10.77734	0.0733712	0.18464605	3.0542837	21	—	—
223346 2003 QX_{112}	15.2	X	331.67488	169.52529	269.30107	18.27637	0.2000121	0.17367344	3.1816113	21	12 9.8	18.6
223347 2003 QC_{113}	14.8	X	68.96054	256.26595	70.81096	18.95220	0.1656827	0.17239572	3.1973124	21	12 13.2	19.5
223348 2003 RH_{9}	14.9	X	172.16022	322.97586	275.31380	20.26027	0.1141561	0.17781174	3.1320529	21	12 6.7	19.9
223349 2003 RP_{11}	15.8	X	111.33012	213.81394	156.14527	1.12465	0.0491606	0.18572570	3.0424355	21	—	—
223350 2003 RN_{15}	15.0	X	51.74711	98.98759	271.90407	9.60946	0.0972973	0.17671521	3.1449960	21	—	—
223351 2003 RQ_{17}	15.1	X	27.86339	202.88751	219.76939	9.99125	0.0564849	0.18107827	3.0942720	21	—	—
223352 2003 RS_{17}	15.3	X	17.75195	221.64570	210.19712	10.19474	0.0964481	0.18019336	3.1043942	21	—	—
223353 2003 RT_{19}	15.3	X	42.63391	55.67077	337.49997	3.06724	0.0655610	0.17854131	3.1235148	21	—	—
223354 2003 RO_{21}	15.1	X	43.67823	91.14024	309.33455	6.74215	0.2005184	0.17876506	3.1209079	21	—	—
223355 2003 RV_{21}	15.1	X	141.97897	34.64864	301.88593	8.92520	0.0846269	0.18619145	3.0373597	21	—	—
223356 2003 RP_{23}	15.7	X	51.65210	252.54663	122.55524	1.74815	0.1703867	0.17696227	3.1420681	21	—	—
223357 2003 RW_{25}	14.8	X	349.17420	95.09087	329.26457	24.77528	0.2554290	0.17081915	3.2169552	21	—	—
223358 2003 SJ	15.0	X	39.29248	227.47337	209.72656	10.57203	0.0957270	0.18366626	3.0651363	21	—	—
223359 2003 SE_{3}	14.9	X	37.92391	351.96011	356.62720	11.96255	0.0771174	0.16974913	3.2304598	21	11 16.7	19.5
223360 Švankmajer	15.1	X	86.87077	163.38082	208.68360	8.72647	0.0982121	0.18258653	3.0772083	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
223361 2003 SX_{6}	15.2	X	26.84291	197.57214	184.64172	20.76737	0.1193381	0.17189423	3.2035279	21	12 22.2	19.9
223362 2003 SJ_{7}	15.6	X	137.62362	82.25529	178.03265	12.34699	0.0891227	0.17612021	3.1520753	21	11 30.4	20.7
223363 2003 SL_{8}	16.0	X	290.66832	261.62739	186.62727	10.65122	0.0508739	0.16789551	3.2541931	21	10 28.5	20.4
223364 2003 SG_{17}	15.3	X	25.10908	68.41065	12.82950	15.20876	0.2684555	0.17817204	3.1278291	21	—	—
223365 2003 SC_{20}	15.1	X	239.11271	187.87296	348.17696	3.07154	0.0773144	0.17638516	3.1489181	21	12 5.3	19.6
223366 2003 SF_{22}	15.0	X	151.59465	4.08876	300.15628	7.85023	0.1076729	0.18157199	3.0886603	21	—	—
223367 2003 SK_{27}	15.1	X	23.40745	254.76726	171.58301	16.03648	0.0836672	0.18041053	3.1019024	21	—	—
223368 2003 SP_{32}	15.0	X	73.52006	3.99735	336.77764	4.14528	0.1773371	0.17431850	3.1737575	21	—	—
223369 2003 SO_{39}	15.0	X	351.74450	207.29421	222.56755	8.40552	0.0643032	0.17388576	3.1790208	21	12 26.3	19.3
223370 2003 SJ_{43}	15.3	X	47.09688	229.17069	176.19400	16.49892	0.1093762	0.18134867	3.0911955	21	—	—
223371 2003 SN_{45}	14.8	X	25.21787	197.05248	168.80671	17.25582	0.1108253	0.17040068	3.2222198	21	12 1.7	19.4
223372 2003 SS_{52}	15.0	X	6.91695	86.43156	330.80591	5.30022	0.1370175	0.17339616	3.1850022	21	—	—
223373 2003 SD_{54}	15.1	X	265.14659	138.53185	4.99093	9.13878	0.0408817	0.17510160	3.1642877	21	12 1.0	19.7
223374 2003 SK_{54}	14.8	X	67.79047	119.32179	223.33452	10.48470	0.0715902	0.17481228	3.1677781	21	12 19.4	19.5
223375 2003 SA_{55}	15.2	X	68.84498	141.51165	209.71092	9.78606	0.2281184	0.17549904	3.1595087	21	—	—
223376 2003 SL_{55}	14.6	X	78.07704	328.21750	343.94544	15.82482	0.1551463	0.17276002	3.1928159	21	12 2.3	19.7
223377 2003 SB_{57}	14.9	X	67.28001	355.63182	344.03050	8.77774	0.0769972	0.17434520	3.1734334	21	12 15.9	19.6
223378 2003 SR_{58}	14.8	X	69.54915	28.65478	296.09672	11.44359	0.0834904	0.17346950	3.1841044	21	12 1.1	19.6
223379 2003 SV_{58}	15.0	X	72.19531	80.40542	251.65802	7.68176	0.0857371	0.17513466	3.1638895	21	12 14.2	19.5
223380 2003 SL_{60}	15.5	X	31.07546	49.20144	314.83491	3.34799	0.1532703	0.17141785	3.2094604	21	12 10.6	19.8
223381 2003 SO_{62}	15.0	X	96.00666	34.03898	242.89648	7.58959	0.0466073	0.16992251	3.2282620	21	10 30.1	19.7
223382 2003 SE_{65}	14.8	X	82.31172	57.94646	270.87223	13.55283	0.1010196	0.17686565	3.1432124	21	12 23.5	19.3
223383 2003 SP_{70}	14.7	X	64.03203	4.00972	342.33878	13.92991	0.0455324	0.17392227	3.1785759	21	12 15.8	19.5
223384 2003 SJ_{72}	15.3	X	80.26867	105.83633	270.63157	3.59622	0.1520399	0.18082869	3.0971185	21	—	—
223385 2003 SV_{73}	15.9	X	343.96500	74.19113	351.65028	6.89332	0.0750501	0.17237631	3.1975523	21	12 10.5	20.2
223386 2003 SP_{77}	14.8	X	34.83937	37.47598	318.81561	10.58268	0.1149580	0.17107839	3.2137046	21	11 29.5	19.3
223387 2003 SG_{85}	17.1	X	23.16000	227.53579	220.77688	20.07635	0.0905184	0.34966272	1.9954300	21	—	—
223388 2003 SV_{85}	15.5	X	20.37570	112.07326	271.10270	2.86199	0.1504679	0.17004899	3.2266611	21	12 18.5	19.6
223389 2003 SG_{88}	16.2	X	78.07016	291.20124	45.45761	1.80373	0.2138550	0.17483536	3.1674993	21	—	—
223390 2003 SA_{91}	15.2	X	19.07616	268.05836	198.56858	10.27418	0.1241174	0.18365438	3.0652685	21	—	—
223391 2003 SB_{92}	15.8	X	137.57281	106.70965	192.77490	4.75859	0.1401128	0.18132759	3.0914350	21	—	—
223392 2003 SU_{94}	15.2	X	169.38943	18.67549	268.43832	7.90600	0.0777496	0.18217325	3.0818605	21	—	—
223393 2003 SD_{106}	14.9	X	323.41777	264.42678	266.24284	8.99099	0.0787470	0.18593898	3.0401085	21	—	—
223394 2003 SM_{106}	14.8	X	104.37581	332.25747	332.84558	15.30222	0.1771317	0.17557916	3.1585475	21	12 25.4	20.1
223395 2003 SW_{115}	15.1	X	359.39760	154.56779	220.27140	11.92111	0.0785226	0.16891248	3.2411183	21	10 30.8	19.3
223396 2003 SB_{117}	14.9	X	78.90138	140.10213	257.72836	9.31763	0.1146948	0.18257278	3.0773628	21	—	—
223397 2003 SE_{118}	14.7	X	299.85530	291.60643	197.22602	13.00647	0.1235493	0.17237089	3.1976193	21	12 21.1	19.0
223398 2003 SO_{121}	15.7	X	152.27467	61.85007	195.09088	8.97009	0.0516453	0.17578793	3.1560461	21	12 9.5	20.5
223399 2003 SQ_{121}	15.2	X	338.89359	156.67866	279.27538	3.46462	0.1894195	0.17345472	3.1842852	21	12 19.9	18.6
223400 2003 SS_{123}	15.1	X	132.17167	252.40580	1.62931	15.57650	0.2306268	0.17452976	3.1711958	21	11 16.3	20.8
223401 2003 SF_{125}	14.5	X	330.30143	180.09896	245.91523	20.51419	0.0828872	0.16971816	3.2308529	21	11 21.1	18.7
223402 2003 SN_{130}	15.0	X	101.19295	346.71203	311.84411	25.88705	0.0898114	0.17553896	3.1590296	21	12 6.9	20.2
223403 2003 SU_{143}	14.7	X	77.35111	103.65945	223.38464	9.80646	0.0877698	0.17182667	3.2043676	21	12 13.6	19.4
223404 2003 SU_{148}	15.2	X	18.78224	28.08542	359.92494	6.53563	0.1488740	0.17051298	3.2208049	21	12 22.0	19.3
223405 2003 SK_{155}	14.8	X	358.19614	274.92281	196.19677	22.12050	0.1303549	0.17906002	3.1174797	21	—	—
223406 2003 SY_{157}	15.5	X	14.42007	153.73604	227.47353	4.06710	0.1248229	0.16972829	3.2307242	21	12 4.3	19.5
223407 2003 SF_{160}	15.7	X	199.99574	120.97380	270.22132	1.00952	0.0784561	0.20304338	2.8668842	21	4 26.2	19.8
223408 2003 SS_{160}	15.5	X	140.08669	269.41739	69.18503	4.44685	0.1386644	0.18510773	3.0492031	21	—	—
223409 2003 SV_{169}	15.5	X	26.37492	22.20207	4.66320	4.46098	0.1280504	0.17285345	3.1916653	21	12 29.3	19.8
223410 2003 SK_{177}	16.2	X	124.84094	261.75731	57.36532	2.51124	0.1731164	0.17982903	3.1085857	21	—	—
223411 2003 SL_{182}	15.1	X	294.34962	314.47073	220.65602	9.27945	0.0233457	0.18254919	3.0776279	21	—	—
223412 2003 SK_{183}	15.1	X	205.02969	227.21779	19.13398	10.11625	0.0547667	0.18172909	3.0868800	21	—	—
223413 2003 SP_{184}	15.0	X	327.24201	103.47169	15.27185	15.99280	0.0743515	0.17721460	3.1390849	21	—	—
223414 2003 SV_{184}	16.1	X	105.08802	267.45685	70.07407	2.89608	0.1400341	0.17874389	3.1211543	21	—	—
223415 2003 SF_{197}	14.8	X	302.19734	290.50916	207.80029	10.39557	0.1015794	0.17649406	3.1476225	21	—	—
223416 2003 SL_{203}	15.7	X	89.99707	260.09276	51.66140	1.82727	0.1639748	0.17478164	3.1681484	21	12 17.5	20.6
223417 2003 SB_{206}	15.3	X	98.19253	127.04277	193.74598	10.25529	0.1248849	0.17840314	3.1251273	21	12 31.9	20.3
223418 2003 SW_{210}	14.9	X	320.76992	169.09815	249.59694	6.59293	0.0335309	0.17170251	3.2059122	21	10 30.9	19.4
223419 2003 SE_{212}	15.1	X	59.95367	249.05040	128.53804	16.59282	0.0694378	0.17853213	3.1236219	21	—	—
223420 2003 SH_{213}	14.8	X	43.85531	340.41999	53.92352	16.98147	0.0607760	0.17913602	3.1165979	21	—	—
223421 2003 SJ_{218}	15.5	X	345.96780	89.16306	337.07208	3.40983	0.1145124	0.17287720	3.1913730	21	12 16.3	19.4
223422 2003 SZ_{231}	15.4	X	60.66059	345.53702	73.33446	5.39578	0.1321539	0.18264878	3.0765090	21	—	—
223423 2003 SD_{246}	16.0	X	98.42404	296.57715	64.79576	1.90735	0.1688982	0.18102506	3.0948784	21	—	—
223424 2003 SY_{250}	14.6	X	1.22119	278.83627	18.75263	21.19115	0.1648943	0.15685473	3.4051609	21	8 6.7	19.0
223425 2003 SJ_{253}	15.9	X	82.41432	241.24170	162.12528	1.55532	0.0973669	0.18519229	3.0482748	21	—	—
223426 2003 SJ_{257}	15.3	X	69.02560	319.16946	18.79266	11.84335	0.1340791	0.17384230	3.1795506	21	12 23.1	20.1
223427 2003 SK_{257}	16.1	X	187.74634	302.87947	95.22865	3.31488	0.0814206	0.20021378	2.8938326	21	4 23.7	20.5
223428 2003 SC_{260}	15.1	X	9.24082	21.09754	21.38168	5.23430	0.1466010	0.17160477	3.2071294	21	12 25.7	19.1
223429 2003 SO_{260}	15.9	X	90.70592	128.45287	221.96777	3.93073	0.1336071	0.17931453	3.1145291	21	—	—
223430 2003 SV_{265}	15.8	X	333.53897	226.89874	218.19762	4.31755	0.0849888	0.17427955	3.1742302	21	12 20.5	19.9
223431 2003 SB_{274}	15.0	X	9.65241	99.15810	24.12543	24.28107	0.3849613	0.17765873	3.1338511	21	—	—
223432 2003 SA_{277}	15.2	X	17.67607	126.38876	303.35666	8.96040	0.2114830	0.17618891	3.1512559	21	—	—
223433 2003 SN_{277}	15.1	X	79.48089	359.69127	312.93973	9.54393	0.0695447	0.17053612	3.2205136	21	11 24.9	19.9
223434 2003 SQ_{279}	15.2	X	95.17236	65.39228	235.38997	5.78962	0.0330939	0.17314789	3.1880460	21	11 26.7	19.7
223435 2003 SO_{281}	15.4	X	102.76815	133.37415	220.49106	8.68281	0.1008532	0.18123352	3.0925047	21	—	—
223436 2003 SD_{283}	14.8	X	49.79833	80.82844	266.62703	15.05619	0.1215227	0.17400310	3.1775914	21	12 11.1	19.3
223437 2003 SX_{283}	15.1	X	331.63263	200.98062	230.26354	12.48705	0.1484307	0.17210652	3.2008931	21	11 29.8	18.8
223438 2003 SD_{285}	15.1	X	201.87633	13.65604	210.22356	15.90479	0.0609385	0.17826190	3.1267779	21	12 21.8	20.0
223439 2003 SU_{285}	15.3	X	26.15641	260.11225	211.41259	10.14469	0.1599980	0.18466156	3.0541127	21	—	—
223440 2003 SF_{293}	15.4	X	347.68866	127.81108	289.77808	5.12579	0.1950715	0.17067869	3.2187198	21	12 12.2	18.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
223441 2003 SP_{295}	15.0	X	349.54137	221.65331	222.50084	9.50195	0.2015616	0.17518807	3.1632464	21	—	—
223442 2003 SH_{297}	15.4	X	78.18657	218.10388	185.76301	5.47542	0.0280223	0.18634119	3.0357323	21	—	—
223443 2003 ST_{299}	15.5	X	53.18932	232.85742	133.92723	5.93599	0.1134936	0.17514687	3.1637425	21	—	—
223444 2003 SH_{308}	14.4	X	67.05945	58.51736	267.79727	19.70921	0.1166076	0.16990049	3.2285410	21	12 4.9	19.1
223445 2003 SF_{309}	15.5	X	90.90524	115.91028	225.05187	4.23069	0.1537848	0.17761369	3.1343808	21	—	—
223446 2003 SW_{311}	15.3	X	343.33829	144.16115	347.76710	5.22406	0.1294542	0.18129576	3.0917968	21	—	—
223447 2003 SU_{330}	16.2	X	92.60532	276.96446	30.86033	11.47298	0.1264033	0.17294731	3.1905105	21	12 10.1	21.2
223448 2003 SQ_{341}	16.1	X	91.58401	136.48722	225.09797	8.38093	0.1722691	0.18113924	3.0935777	21	—	—
223449 2003 TU_{12}	14.8	X	356.59253	78.21158	10.03112	17.52974	0.1431697	0.17457898	3.1705997	21	—	—
223450 2003 TD_{15}	15.4	X	6.26075	42.52048	12.59150	4.74770	0.2632862	0.17364646	3.1819408	21	—	—
223451 2003 TP_{19}	15.6	X	132.82160	165.98516	133.44421	1.63129	0.1553196	0.17767954	3.1336064	21	—	—
223452 2003 TK_{21}	15.2	X	333.45181	280.99175	180.48886	16.85813	0.2222634	0.17185985	3.2039552	21	—	—
223453 2003 TJ_{33}	15.1	X	319.25469	79.17338	33.11625	10.08923	0.0668465	0.17423725	3.1747440	21	—	—
223454 2003 UW	15.6	X	180.14699	96.95083	180.75375	11.26566	0.1059301	0.18712480	3.0272513	21	—	—
223455 2003 UT_{7}	16.2	X	109.75835	162.99607	176.61893	1.22015	0.0711570	0.17781441	3.1320216	21	—	—
223456 2003 UB_{10}	18.2	X	36.31709	105.30682	131.00207	5.14523	0.3355639	0.48703365	1.5999144	21	9 5.9	18.2
223457 2003 UD_{43}	15.0	X	350.75153	66.14561	22.92462	13.73092	0.0730718	0.17573654	3.1566614	21	—	—
223458 2003 UB_{54}	14.8	X	142.60721	49.53162	311.52866	10.93969	0.1856775	0.18490843	3.0513936	21	2 1.6	19.6
223459 2003 UG_{65}	14.8	X	81.96912	290.17210	48.71628	26.56145	0.2560998	0.17496543	3.1659293	21	—	—
223460 2003 UD_{81}	15.0	X	50.15487	309.98899	54.01321	27.95035	0.1869338	0.17091246	3.2157842	21	—	—
223461 2003 UU_{93}	15.3	X	349.21254	263.65164	204.68695	12.72869	0.2728865	0.17494580	3.1661662	21	—	—
223462 2003 UK_{96}	15.2	X	40.23868	351.65965	25.51800	7.92003	0.1588331	0.17092229	3.2156610	21	—	—
223463 2003 UU_{96}	14.4	X	114.22921	58.08567	248.57653	15.04856	0.2599814	0.17949057	3.1124923	21	—	—
223464 2003 UY_{101}	15.2	X	87.99969	258.83467	57.17667	5.31206	0.1633369	0.17227847	3.1987629	21	12 19.9	20.2
223465 2003 UL_{110}	15.4	X	342.22665	343.98825	100.92185	2.70783	0.2001275	0.17049452	3.2210374	21	—	—
223466 2003 UE_{133}	15.0	X	302.74238	338.67773	353.40406	9.64403	0.0799715	0.15024772	3.5042692	21	6 13.9	20.0
223467 2003 UR_{137}	14.8	X	324.50064	74.62837	56.41632	9.07705	0.0506024	0.17508500	3.1644878	21	—	—
223468 2003 UH_{153}	15.4	X	338.01620	34.14180	56.44441	5.94305	0.1389830	0.17126762	3.2113370	21	—	—
223469 2003 UB_{208}	15.3	X	335.98903	237.52135	226.81466	11.83232	0.1756988	0.17151133	3.2082941	21	—	—
223470 2003 UM_{241}	14.9	X	220.65061	162.17443	42.19967	11.13271	0.0816383	0.17232697	3.1981627	21	12 16.1	19.7
223471 2003 UA_{251}	15.3	X	94.37211	110.18065	273.68085	4.35635	0.1781917	0.17958824	3.1113638	21	1 5.9	19.5
223472 2003 UW_{270}	15.0	X	214.79343	215.67447	53.06366	12.83890	0.1228427	0.18424475	3.0587170	21	—	—
223473 2003 UT_{277}	14.6	X	106.97177	115.41860	184.81503	15.69848	0.0778345	0.17265103	3.1941595	21	12 13.6	19.7
223474 2003 UF_{375}	15.9	X	16.72001	268.67720	236.03456	3.83616	0.0650801	0.19137342	2.9822792	21	1 28.4	19.7
223475 2003 VY_{3}	14.6	X	22.60387	150.25503	244.92724	17.46757	0.0962879	0.16966651	3.2315085	21	12 27.2	19.0
223476 2003 WN_{56}	17.0	X	351.26847	203.92486	322.00722	3.06688	0.1572119	0.28222064	2.3018492	21	—	—
223477 2003 WX_{62}	15.0	X	279.13768	1.18873	43.76755	6.04362	0.0534826	0.15189544	3.4788809	21	8 20.5	19.9
223478 2003 WT_{139}	17.4	X	226.12197	163.95234	244.55083	5.21829	0.1496286	0.31201587	2.1528723	21	6 8.0	20.3
223479 2003 WL_{154}	14.4	X	51.00939	155.65110	96.69969	11.24436	0.0321507	0.14979954	3.5112553	21	8 4.9	19.3
223480 2003 XV_{38}	15.5	X	64.39748	130.68502	291.44097	9.01170	0.2249067	0.17674566	3.1446348	21	1 14.8	19.0
223481 2003 YM_{27}	14.6	X	19.18104	31.93419	97.05661	29.04502	0.2124521	0.17466455	3.1695641	21	1 10.7	17.9
223482 2003 YL_{32}	14.0	X	75.65254	64.83028	86.08493	11.12576	0.1936379	0.12555404	3.9498650	21	5 26.2	19.4
223483 2003 YF_{36}	17.0	X	258.44875	273.15795	84.13577	6.29915	0.2391161	0.30909811	2.1663992	21	4 27.2	20.2
223484 2003 YQ_{61}	16.5	X	104.30715	189.82448	268.57150	6.99493	0.1007561	0.29732814	2.2232009	21	3 19.9	19.1
223485 2003 YE_{82}	17.0	X	157.11354	80.68408	349.21729	1.86830	0.0605193	0.30097405	2.2052103	21	4 17.9	19.6
223486 2003 YM_{88}	17.1	X	130.43288	178.01126	281.90121	1.44656	0.0764910	0.30126389	2.2037957	21	4 27.6	19.6
223487 2003 YT_{111}	17.1	X	265.45208	264.74644	68.77254	7.56965	0.0518560	0.30680391	2.1771856	21	4 23.8	19.7
223488 2003 YN_{145}	17.3	X	161.61358	47.77326	15.41004	7.34878	0.1523666	0.30057395	2.2071668	21	4 21.6	20.5
223489 2003 YV_{170}	17.1	X	99.80156	112.81864	354.52293	3.68902	0.1146274	0.29728634	2.2234093	21	4 1.2	19.5
223490 2003 YN_{180}	16.4	X	243.92924	251.78837	326.98080	9.64326	0.1823890	0.27626831	2.3347946	21	—	—
223491 2004 BY_{11}	17.5	X	168.81965	94.34767	316.35656	3.52469	0.1587683	0.29989467	2.2104985	21	4 12.3	20.8
223492 2004 BV_{28}	14.8	X	91.08443	50.01543	81.31822	4.24946	0.1627127	0.12733404	3.9129686	21	5 16.1	20.3
223493 2004 BH_{43}	16.5	X	242.32146	127.82487	114.18383	6.28750	0.0677506	0.27932451	2.3177327	21	—	—
223494 2004 BT_{43}	17.1	X	338.96361	167.89154	15.58035	2.77395	0.0840137	0.28520148	2.2857823	21	—	—
223495 2004 BV_{43}	17.0	X	358.44500	152.02126	38.00199	2.35779	0.1556604	0.28820699	2.2698633	21	1 29.1	19.0
223496 2004 BS_{52}	18.1	X	140.67812	327.42771	138.39472	2.17586	0.1239975	0.30240325	2.1982567	21	5 26.3	20.9
223497 2004 BM_{81}	16.9	X	100.41930	144.55361	329.44569	7.70316	0.1008245	0.29720511	2.2238144	21	4 6.4	19.4
223498 2004 BV_{91}	16.8	X	163.71681	95.85567	304.77395	5.85235	0.0723648	0.29601009	2.2297955	21	3 15.9	19.8
223499 2004 BS_{93}	16.2	X	208.04491	28.00342	206.68550	12.40952	0.1774097	0.27022319	2.3694869	21	—	—
223500 2004 BW_{99}	17.0	X	117.27233	302.36141	126.68145	6.69652	0.0613685	0.28794776	2.2712254	21	2 26.0	19.6
223501 2004 BM_{106}	17.1	X	207.34192	284.12943	107.74763	5.34251	0.1147467	0.30223597	2.1990678	21	4 29.9	20.2
223502 2004 BY_{107}	17.5	X	145.06117	10.74696	91.62539	4.15948	0.1138823	0.30169485	2.2016965	21	5 25.7	20.5
223503 2004 BM_{108}	16.7	X	66.88465	60.72192	92.10262	6.69488	0.0660958	0.29548495	2.2324366	21	4 13.4	19.1
223504 2004 BK_{115}	16.0	X	96.00083	234.62570	342.66221	4.87780	0.1329822	0.25188044	2.4831698	21	9 4.7	19.3
223505 2004 BB_{118}	16.8	X	218.04627	182.39218	259.87086	4.06289	0.0842786	0.31013748	2.1615563	21	7 21.6	19.6
223506 2004 BZ_{131}	16.6	X	226.49131	155.55558	132.81464	10.09283	0.1045095	0.28694695	2.2765034	21	1 4.0	20.0
223507 2004 CL_{19}	17.2	X	178.45361	148.31765	268.68777	2.28211	0.1060919	0.30183630	2.2010086	21	4 29.1	20.1
223508 2004 CS_{19}	17.8	X	211.81968	20.08049	19.35036	2.16521	0.1690677	0.30476343	2.1868927	21	5 10.7	21.1
223509 2004 CX_{21}	16.9	X	237.27065	92.91203	307.10163	4.93530	0.1538442	0.30712606	2.1756629	21	6 7.8	19.9
223510 2004 CC_{22}	16.8	X	316.38431	24.86365	187.44076	2.26140	0.1757155	0.28341485	2.2953785	21	—	—
223511 2004 CE_{38}	16.7	X	33.91002	329.24581	169.74899	8.88032	0.0827484	0.28848281	2.2684163	21	1 22.2	19.1
223512 2004 CA_{43}	16.6	X	344.92452	137.13535	69.47342	1.94348	0.0481767	0.28826474	2.2695601	21	2 16.3	19.0
223513 2004 CJ_{45}	17.6	X	88.75382	65.72323	44.87144	4.34599	0.0909718	0.29337815	2.2431116	21	3 19.2	19.9
223514 2004 CM_{46}	16.7	X	128.31417	301.51795	160.09211	5.33606	0.1326413	0.29713657	2.2241563	21	5 7.9	19.6
223515 2004 CU_{58}	16.5	X	281.36296	187.78704	29.97764	5.01251	0.2101721	0.28008398	2.3135410	21	—	—
223516 2004 CU_{61}	17.2	X	227.81345	350.53891	26.87092	4.02742	0.1583532	0.30309611	2.1949054	21	4 27.5	20.3
223517 2004 CF_{80}	16.2	X	282.33267	240.71429	5.10645	5.73480	0.1299891	0.28277124	2.2988602	21	1 8.5	19.5
223518 2004 CK_{97}	16.2	X	346.78349	200.00757	357.16619	6.12409	0.0877653	0.28563182	2.2834859	21	2 1.6	18.7
223519 2004 CZ_{98}	17.1	X	278.93145	40.58227	164.41020	3.15404	0.1751388	0.27586123	2.3370909	21	—	—
223520 2004 CF_{100}	16.5	X	41.29757	32.89515	119.33566	6.36592	0.0842351	0.28905988	2.2653962	21	2 27.7	18.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
223521 2004 CZ_{100}	16.5	X	104.04930	134.76665	340.66651	7.18087	0.0528411	0.29269779	2.2465862	21	4 7.3	19.1
223522 2004 CH_{113}	16.7	X	150.54004	324.10435	101.06842	6.32698	0.1218816	0.29769208	2.2213885	21	4 14.2	19.8
223523 2004 DX_{11}	17.0	X	140.64867	34.36809	179.70569	3.97167	0.1976430	0.25570521	2.4583459	21	10 19.9	21.1
223524 2004 DF_{24}	16.2	X	264.56066	343.39943	240.84939	5.73035	0.1221024	0.27603078	2.3361338	21	—	—
223525 2004 DB_{25}	16.0	X	172.70847	202.04343	160.62612	24.64745	0.1804120	0.28615260	2.2807145	21	2 16.8	19.5
223526 2004 DX_{26}	17.2	X	192.47587	211.15937	26.20161	2.20751	0.1890278	0.26650847	2.3914540	21	—	—
223527 2004 DS_{38}	16.4	X	267.07885	196.06000	20.05005	6.53121	0.0708200	0.27493569	2.3423330	21	—	—
223528 2004 DO_{41}	16.3	X	309.28246	158.19112	50.00002	4.56244	0.0891722	0.28069477	2.3101837	21	—	—
223529 2004 DK_{42}	16.8	X	166.63692	282.46025	179.28718	8.57001	0.1443187	0.30280805	2.1962972	21	6 19.5	20.2
223530 2004 DP_{43}	16.9	X	298.74937	73.67630	131.55548	3.34956	0.1163402	0.27941662	2.3172233	21	—	—
223531 2004 DH_{55}	17.5	X	147.63799	55.24247	174.21921	1.15003	0.1496294	0.26031520	2.4292359	21	11 13.6	21.1
223532 2004 EH_{5}	16.4	X	126.43609	303.52597	4.37059	6.43395	0.1234707	0.26722090	2.3872016	21	—	—
223533 2004 EH_{8}	16.4	X	252.59169	64.37673	182.88268	3.71949	0.1075309	0.27654390	2.3332431	21	—	—
223534 2004 EV_{11}	16.9	X	174.20624	195.71420	241.80632	3.61251	0.1297668	0.30210236	2.1997161	21	5 24.5	20.1
223535 2004 EK_{15}	16.3	X	318.35285	102.22884	86.45980	8.85775	0.0525756	0.27971292	2.3155866	21	—	—
223536 2004 EP_{16}	16.2	X	187.80266	255.48165	37.83792	9.08089	0.1156148	0.27327031	2.3518399	21	—	—
223537 2004 EA_{19}	16.5	X	329.75155	162.87113	43.12263	4.17914	0.1984942	0.28362770	2.2942300	21	1 1.4	19.4
223538 2004 ER_{22}	16.5	X	258.66627	105.89027	112.01150	3.41762	0.1066292	0.27352578	2.3503753	21	—	—
223539 2004 EX_{25}	16.9	X	138.04147	351.91003	318.31581	3.80571	0.1582711	0.26840740	2.3801613	21	—	—
223540 2004 ES_{30}	17.1	X	129.79499	1.61910	269.37633	1.53950	0.1762785	0.26026156	2.4295697	21	12 18.0	21.0
223541 2004 ER_{40}	17.0	X	206.70306	296.02763	317.17600	1.62411	0.1846102	0.26948090	2.3738361	21	—	—
223542 2004 EK_{42}	16.8	X	333.29519	24.41209	148.17545	2.99859	0.1087561	0.27925935	2.3180933	21	—	—
223543 2004 EV_{42}	16.6	X	212.43968	209.40642	59.13957	3.18971	0.1834164	0.27173613	2.3606837	21	—	—
223544 2004 EJ_{46}	16.9	X	160.24339	184.92600	70.02237	6.30396	0.1982698	0.26304645	2.4123913	21	12 24.4	20.8
223545 2004 EA_{60}	16.7	X	30.55592	304.86430	241.22597	5.96970	0.0685848	0.28879315	2.2667909	21	3 26.8	19.2
223546 2004 EN_{63}	17.6	X	62.57893	226.25639	225.84233	2.60852	0.1678175	0.28389940	2.2927660	21	1 9.9	19.2
223547 2004 EH_{68}	17.1	X	333.78883	247.49965	296.77639	1.94882	0.1191555	0.28293524	2.2979718	21	—	—
223548 2004 EM_{71}	17.0	X	264.03126	332.64493	204.03695	0.87000	0.1230475	0.26982786	2.3718007	21	—	—
223549 2004 EL_{73}	17.5	X	344.56208	353.07608	196.91719	1.48455	0.1603169	0.28316537	2.2967265	21	1 5.8	20.2
223550 2004 EM_{73}	17.1	X	245.02562	23.96687	180.24547	2.09731	0.1574147	0.26907663	2.3762132	21	—	—
223551 2004 ES_{73}	17.1	X	141.13331	235.53216	11.08785	1.03983	0.1578894	0.25837224	2.4413993	21	11 27.9	21.0
223552 2004 EJ_{76}	17.1	X	280.40986	180.72895	28.96703	2.75580	0.1404281	0.27631017	2.3345587	21	—	—
223553 2004 EB_{77}	17.2	X	162.28476	121.95319	101.32997	2.38523	0.1397759	0.25950210	2.4343076	21	11 19.9	21.0
223554 2004 EN_{84}	16.7	X	282.75946	220.52935	41.02610	4.24372	0.1766826	0.28417330	2.2912925	21	1 24.6	20.1
223555 2004 EW_{84}	17.2	X	117.66803	177.39458	86.33244	3.27329	0.1806924	0.25734224	2.4479094	21	11 28.8	21.1
223556 2004 ES_{86}	17.2	X	216.15952	126.78986	100.93044	3.57181	0.1580516	0.26842807	2.3800391	21	—	—
223557 2004 EL_{90}	17.0	X	118.19399	326.82841	130.50910	4.47856	0.0902610	0.29116072	2.2544859	21	4 13.3	19.7
223558 2004 EP_{93}	16.4	X	169.28633	151.91577	154.53508	6.28391	0.1005995	0.27370578	2.3493447	21	—	—
223559 2004 ED_{100}	17.5	X	76.85354	262.87338	181.44958	6.22828	0.0730187	0.28406031	2.2919000	21	1 16.7	19.9
223560 2004 ET_{106}	17.3	X	91.82500	104.78806	184.69844	2.55894	0.1791231	0.25730416	2.4481509	21	12 6.8	21.0
223561 2004 EN_{114}	17.0	X	188.85113	80.24764	139.95807	3.13046	0.1054018	0.26472499	2.4021830	21	12 15.9	20.3
223562 2004 EB_{116}	16.8	X	144.74701	320.92715	352.34765	6.59813	0.1175490	0.27203122	2.3589762	21	—	—
223563 2004 FJ_{2}	16.6	X	309.01982	164.05542	17.08027	4.28608	0.1310791	0.27654976	2.3332101	21	—	—
223564 2004 FD_{7}	17.3	X	118.23925	294.52417	160.30226	2.29844	0.0741390	0.29237299	2.2482497	21	4 5.4	20.0
223565 2004 FD_{15}	16.1	X	267.91836	180.32738	10.96212	6.00912	0.1445682	0.27029702	2.3690554	21	—	—
223566 Petignat	17.2	X	41.52700	252.38778	247.20085	2.06977	0.1680708	0.28651456	2.2787932	21	2 6.3	18.7
223567 2004 FL_{21}	17.2	X	149.32130	126.79506	316.56633	3.57607	0.1344263	0.29619496	2.2288676	21	5 4.2	20.4
223568 2004 FE_{22}	16.1	X	200.79228	50.90943	214.73183	6.08258	0.0780587	0.26979160	2.3720132	21	—	—
223569 2004 FP_{27}	17.4	X	312.57218	146.97692	334.67117	1.71272	0.0879129	0.26939217	2.3743573	21	—	—
223570 2004 FO_{35}	17.3	X	28.16202	20.66687	113.38995	1.97463	0.1591859	0.28350409	2.2948968	21	1 1.2	19.1
223571 2004 FS_{37}	16.4	X	111.28176	181.10506	168.29293	10.17425	0.0849984	0.27284212	2.3542998	21	—	—
223572 2004 FU_{38}	16.1	X	253.21366	358.92961	210.61221	8.68140	0.1450245	0.27043975	2.3682217	21	—	—
223573 2004 FK_{40}	17.1	X	179.01421	254.06399	333.82483	1.90184	0.1438122	0.26407337	2.4061331	21	12 11.5	20.8
223574 2004 FA_{53}	16.5	X	41.55239	116.48668	31.69731	6.14394	0.1084110	0.28557398	2.2837941	21	2 24.4	18.7
223575 2004 FZ_{55}	16.6	X	345.85854	243.88306	27.80088	11.42463	0.2534279	0.23464034	2.6033602	21	5 2.9	18.9
223576 2004 FV_{61}	16.9	X	250.90360	174.25162	64.05366	2.36532	0.0840443	0.27527452	2.3404105	21	—	—
223577 2004 FE_{64}	16.6	X	151.53915	231.22596	35.02693	6.61251	0.1122402	0.26154258	2.4216300	21	—	—
223578 2004 FU_{76}	17.0	X	122.16530	305.47239	358.05318	6.96127	0.1161146	0.26580715	2.3956587	21	—	—
223579 2004 FM_{77}	17.1	X	34.88022	75.25058	358.08700	3.62554	0.1063638	0.27495960	2.3421972	21	—	—
223580 2004 FD_{83}	16.7	X	229.90620	203.75340	21.54587	1.55538	0.1454042	0.26822021	2.3812686	21	—	—
223581 2004 FF_{99}	16.7	X	18.24079	338.44601	151.80781	6.56660	0.0577110	0.27914470	2.3187279	21	—	—
223582 2004 FQ_{105}	17.6	X	228.50552	117.49485	118.54456	5.63823	0.1331527	0.27187257	2.3598938	21	—	—
223583 2004 FO_{107}	16.6	X	85.80005	171.46770	297.49579	1.40435	0.0934946	0.28727648	2.2747622	21	3 10.6	18.9
223584 2004 FY_{107}	16.5	X	125.85058	124.42303	184.04660	5.77799	0.0955058	0.26778769	2.3838320	21	—	—
223585 2004 FA_{110}	16.7	X	282.04521	7.05460	200.77067	5.29250	0.1761937	0.27367771	2.3495053	21	—	—
223586 2004 FW_{118}	16.4	X	8.94205	317.71116	185.74464	8.15562	0.1261218	0.27937225	2.3174687	21	—	—
223587 2004 FW_{140}	17.6	X	270.56475	314.62878	254.46268	0.70407	0.1309346	0.27428018	2.3460635	21	—	—
223588 2004 FH_{141}	16.7	X	247.47637	214.71752	15.51516	7.29973	0.1075383	0.27238729	2.3569199	21	—	—
223589 2004 FO_{161}	17.6	X	221.92579	63.00690	160.12481	4.00334	0.1194648	0.26972765	2.3723881	21	—	—
223590 2004 GK_{3}	17.1	X	14.72765	349.99727	188.23667	2.15430	0.0493830	0.28496599	2.2870414	21	2 20.5	19.5
223591 2004 GA_{20}	17.1	X	193.59188	288.80182	318.51118	1.72158	0.1809739	0.26424238	2.4051070	21	—	—
223592 2004 GT_{20}	15.7	X	336.35294	157.23801	104.40354	13.91214	0.2549089	0.22918870	2.6444818	21	4 8.3	18.8
223593 2004 GJ_{29}	17.4	X	70.56510	320.69818	189.74692	1.86167	0.1122957	0.29035062	2.2586774	21	4 19.8	19.5
223594 2004 GW_{32}	17.0	X	189.47317	68.43110	216.91629	6.31951	0.1067634	0.26971499	2.3724623	21	—	—
223595 2004 GG_{36}	16.7	X	299.94733	160.51758	38.67393	7.24474	0.0860124	0.27399181	2.3477094	21	—	—
223596 2004 GK_{48}	17.5	X	66.01291	229.81684	208.02618	2.93601	0.1494309	0.27893277	2.3199023	21	—	—
223597 2004 GC_{50}	16.5	X	37.39394	135.53276	224.39174	6.16203	0.1260604	0.25853055	2.4404025	21	12 28.9	19.7
223598 2004 GO_{50}	17.1	X	38.65904	65.70935	5.58523	5.13576	0.1061574	0.27227103	2.3575908	21	—	—
223599 2004 GA_{61}	17.2	X	311.46233	30.48982	168.91740	2.15892	0.1156547	0.27668462	2.3324519	21	—	—
223600 2004 GF_{75}	17.1	X	316.56872	174.21807	359.39199	3.87057	0.1728190	0.27521709	2.3407361	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
223601 2004 GY_{78}	17.4	X	55.61598	293.88498	199.73057	2.10738	0.1592952	0.28671501	2.2777310	21	2 28.5	19.1
223602 2004 GK_{84}	17.3	X	270.59942	120.93002	41.18495	2.06726	0.1276846	0.26626399	2.3929177	21	—	—
223603 2004 GB_{85}	16.9	X	354.89052	289.99634	164.06464	8.17202	0.0674669	0.26879872	2.3778507	21	—	—
223604 2004 HN_{2}	16.6	X	348.88716	57.23031	193.31880	12.40064	0.2511291	0.22958758	2.6414179	21	4 10.6	18.8
223605 2004 HF_{8}	17.2	X	328.22773	216.52247	283.69410	1.72609	0.1311548	0.27252721	2.3561131	21	—	—
223606 2004 HT_{8}	16.8	X	312.09333	81.14834	68.17409	6.42850	0.0708586	0.27012649	2.3700523	21	—	—
223607 2004 HT_{18}	16.9	X	22.34488	46.71563	215.38632	3.52516	0.2100310	0.23994400	2.5648548	21	7 25.9	19.1
223608 2004 HK_{19}	15.4	X	16.90372	261.91985	27.23121	11.77098	0.2898950	0.23725102	2.5842270	21	9 15.4	17.6
223609 2004 HF_{26}	16.8	X	15.99648	98.26395	171.49180	3.42456	0.2163219	0.23659421	2.5890075	21	7 24.3	19.0
223610 2004 HQ_{39}	16.3	X	92.31621	294.27479	39.96506	7.86446	0.0928415	0.26303740	2.4124466	21	—	—
223611 2004 HJ_{54}	16.4	X	212.33591	301.96031	273.18931	7.90541	0.1896405	0.26393131	2.4069964	21	12 25.2	19.7
223612 2004 HE_{60}	16.3	X	10.17267	321.57999	312.33397	4.28878	0.2128579	0.23709683	2.5853473	21	7 17.4	18.2
223613 2004 HT_{65}	17.2	X	80.25492	91.88123	18.88241	3.74837	0.2022329	0.28956759	2.2627474	21	3 22.8	19.1
223614 2004 HZ_{71}	17.4	X	24.16464	303.55623	190.67318	1.62547	0.1432459	0.27907650	2.3191057	21	—	—
223615 2004 HP_{72}	13.6	X	352.02586	239.08303	168.78405	2.62068	0.0393987	0.08417676	5.1563364	21	11 14.4	20.2
223616 2004 JR_{2}	16.0	X	280.20751	259.03974	30.12407	16.10991	0.2464754	0.22315810	2.6919125	21	3 5.3	20.5
223617 2004 JE_{6}	16.2	X	310.16227	337.73817	134.25484	7.93470	0.1205550	0.26315980	2.4116985	21	—	—
223618 2004 JZ_{10}	16.6	X	7.26386	109.35583	176.51513	9.37037	0.1943513	0.23618178	2.5920206	21	7 25.9	19.0
223619 2004 JR_{11}	16.4	X	307.04174	158.41143	157.56023	13.34429	0.2939873	0.22945656	2.6424233	21	4 26.5	20.0
223620 2004 JX_{12}	16.1	X	3.17256	316.43184	5.92113	4.98699	0.2435400	0.24000917	2.5643905	21	9 22.4	18.1
223621 2004 JK_{15}	16.4	X	39.99580	30.33700	219.43088	4.26741	0.1670414	0.23773806	2.5806963	21	8 4.3	19.2
223622 2004 JX_{15}	15.7	X	331.31266	81.24166	234.09805	10.47254	0.2105134	0.23352412	2.6116495	21	6 16.9	18.2
223623 2004 JZ_{19}	16.1	X	36.83934	208.42160	35.57824	7.64732	0.0948494	0.23841773	2.5757894	21	7 14.1	19.2
223624 2004 JQ_{20}	15.5	X	333.66973	130.01606	203.03266	30.69643	0.2371334	0.23381673	2.6094701	21	7 10.1	18.8
223625 2004 JM_{21}	17.2	X	5.20344	341.34142	206.30186	2.45916	0.1049239	0.28308022	2.2971871	21	2 13.0	19.6
223626 2004 JT_{23}	16.2	X	261.11988	341.38263	219.87609	13.73750	0.1606120	0.27075786	2.3663665	21	—	—
223627 2004 JF_{29}	16.5	X	359.86657	162.58964	124.74278	2.95322	0.1922952	0.23585287	2.5944299	21	7 11.9	18.7
223628 2004 JF_{30}	15.9	X	334.45565	77.08686	224.22248	10.71083	0.1851987	0.23313534	2.6145521	21	6 6.0	18.5
223629 2004 JH_{33}	16.6	X	5.47269	153.98791	134.49958	3.69116	0.1986312	0.23677858	2.5876634	21	7 28.1	18.6
223630 2004 JY_{33}	17.0	X	164.44528	46.30844	170.33419	3.57963	0.1413867	0.25347985	2.4727132	21	11 13.5	20.8
223631 2004 JJ_{54}	12.9	X	329.81478	307.27412	113.46756	6.08340	0.0468610	0.08132273	5.2762829	21	11 2.9	19.7
223632 2004 JD_{56}	16.2	X	351.40932	124.72057	174.60849	12.37390	0.1713241	0.23487963	2.6015918	21	7 10.0	18.9
223633 Rosnyaîné	16.0	X	319.09261	235.73655	112.27826	6.19556	0.3993022	0.23454801	2.6040434	21	6 6.8	18.5
223634 2004 KV_{4}	16.3	X	337.12567	207.73557	109.00225	4.97331	0.2392451	0.23483971	2.6018866	21	6 29.0	18.3
223635 2004 KW_{9}	16.0	X	10.76932	248.29726	41.23774	13.32811	0.1961696	0.23716357	2.5848622	21	8 20.2	18.7
223636 2004 KZ_{11}	16.3	X	83.06435	334.30808	41.15940	14.72289	0.2163973	0.26699456	2.3885506	21	—	—
223637 2004 KE_{14}	16.8	X	41.04570	70.00642	172.72791	11.00231	0.1207347	0.23739720	2.5831660	21	7 19.5	19.9
223638 2004 KS_{15}	16.8	X	269.32640	359.32383	217.15999	6.41166	0.0676378	0.27107460	2.3645227	21	—	—
223639 2004 KM_{16}	17.0	X	333.66303	83.72270	191.99681	11.40886	0.1772316	0.22971108	2.6404711	21	4 29.9	19.8
223640 2004 LJ_{6}	16.0	X	300.62221	260.25935	69.84563	13.08559	0.2355848	0.23082844	2.6319431	21	5 13.9	19.5
223641 2004 LA_{16}	15.5	X	334.38667	336.00415	268.86132	12.81103	0.2140181	0.22259142	2.6964794	21	3 4.3	19.1
223642 2004 LZ_{18}	16.7	X	22.44920	217.11486	100.81263	3.99617	0.1530988	0.24403067	2.5361393	21	10 14.9	19.4
223643 2004 LX_{29}	15.9	X	66.28502	340.75949	276.90205	12.83032	0.0614871	0.23679928	2.5875126	21	9 2.1	19.6
223644 2004 MG	16.2	X	330.39408	108.57698	218.11352	11.24632	0.2721123	0.23442690	2.6049402	21	6 22.2	18.7
223645 2004 ML_{1}	16.8	X	32.07619	89.68254	169.19415	4.78551	0.1927213	0.23698376	2.5861695	21	8 8.1	19.4
223646 2004 ME_{4}	16.3	X	318.82663	234.05914	97.28983	12.37132	0.1804939	0.23386705	2.6090958	21	6 21.8	19.1
223647 2004 MK_{7}	16.2	X	296.18552	253.94954	55.09449	8.97811	0.2860975	0.22352421	2.6889724	21	4 5.7	20.2
223648 2004 NQ	16.2	X	265.90455	39.98667	250.97599	8.60825	0.1969699	0.21559238	2.7545275	21	2 16.2	20.7
223649 2004 NW_{8}	16.2	X	350.67324	275.31152	64.28960	5.22159	0.1707814	0.23603104	2.5931241	21	9 16.1	18.6
223650 2004 NF_{10}	16.0	X	343.27685	176.47665	116.36233	13.41380	0.1753105	0.22843686	2.6502811	21	6 14.5	18.8
223651 2004 OZ_{2}	16.6	X	230.28547	102.61181	222.53264	3.30832	0.2059440	0.21322098	2.7749133	21	2 28.5	21.3
223652 2004 OQ_{14}	16.1	X	282.42904	266.82021	116.37017	4.70850	0.1553487	0.23009093	2.6375642	21	7 11.7	19.5
223653 2004 PF	15.8	X	253.50851	169.31999	174.96104	9.94305	0.1797822	0.21838677	2.7309798	21	4 17.2	20.1
223654 2004 PF_{13}	16.0	X	285.25342	136.84155	186.05035	4.37138	0.0957928	0.22100022	2.7094070	21	5 5.0	19.7
223655 2004 PX_{16}	16.2	X	2.45441	36.00680	226.81465	3.52744	0.2686732	0.22718263	2.6600265	21	6 6.5	17.7
223656 2004 PZ_{17}	15.5	X	239.86006	236.51227	109.27428	6.76032	0.1280332	0.21583216	2.7524870	21	4 11.4	19.8
223657 2004 PL_{20}	16.3	X	260.89523	248.00361	120.95292	4.32012	0.1200071	0.22501651	2.6770704	21	5 31.7	20.1
223658 2004 PX_{22}	16.3	X	185.10271	67.81490	312.31734	3.05390	0.2176855	0.21204598	2.7851549	21	3 29.5	21.0
223659 2004 PM_{26}	16.6	X	204.51308	268.63157	131.80258	4.16514	0.1998604	0.21764045	2.7372196	21	5 10.9	21.2
223660 2004 PW_{28}	15.6	X	232.90406	81.01082	292.61372	6.71142	0.1693260	0.21763029	2.7373048	21	4 30.3	20.1
223661 2004 PW_{32}	16.0	X	309.94774	267.30682	24.13414	5.21193	0.1387208	0.22040757	2.7142616	21	4 18.8	19.3
223662 2004 PS_{36}	16.0	X	255.04393	125.01728	197.12099	4.97054	0.1301661	0.21633661	2.7482066	21	3 24.5	20.2
223663 2004 PY_{36}	15.8	X	227.34454	50.33968	248.62223	10.66004	0.1599407	0.20943888	2.8082203	21	1 26.4	20.5
223664 2004 PE_{37}	15.9	X	199.16148	219.12270	152.67220	6.43671	0.0504956	0.21408699	2.7674251	21	4 2.3	19.9
223665 2004 PH_{37}	15.8	X	356.22220	0.75671	252.94622	11.15263	0.1208137	0.22381873	2.6866129	21	5 14.4	18.8
223666 2004 PN_{38}	15.7	X	228.08119	224.09692	142.82769	11.16664	0.1460924	0.21544486	2.7557848	21	4 25.6	20.2
223667 2004 PW_{43}	16.1	X	274.68213	138.42885	185.04404	4.48177	0.1091565	0.21861308	2.7290948	21	4 20.7	19.9
223668 2004 PB_{48}	16.6	X	251.42422	63.74769	254.19116	3.22382	0.1614706	0.21600170	2.7510466	21	3 12.1	21.0
223669 2004 PO_{53}	15.4	X	160.52644	179.27546	335.00983	13.90685	0.1295752	0.23263157	2.6183254	21	8 21.8	19.5
223670 2004 PL_{59}	16.0	X	289.26377	127.84706	178.45287	6.03379	0.0476663	0.21910614	2.7249990	21	4 26.2	19.6
223671 2004 PU_{59}	16.3	X	173.31344	172.29503	176.08094	3.25669	0.1998648	0.20574730	2.8417113	21	2 11.6	21.1
223672 2004 PZ_{60}	16.0	X	231.03981	192.31231	165.94561	9.84539	0.1686519	0.21514183	2.7583718	21	4 14.7	20.5
223673 2004 PJ_{70}	16.5	X	196.92112	152.09652	207.46442	4.47083	0.1662155	0.21050228	2.7987548	21	3 14.3	21.2
223674 2004 PW_{74}	16.0	X	198.03725	169.70123	207.89174	4.20443	0.1351328	0.21378115	2.7700639	21	4 6.3	20.2
223675 2004 PD_{79}	15.9	X	216.72508	120.33023	253.79593	4.20488	0.0867497	0.21649631	2.7468548	21	4 20.6	20.0
223676 2004 PE_{81}	16.3	X	280.39592	287.43174	357.85183	4.11583	0.0872732	0.21453039	2.7636105	21	3 12.6	20.2
223677 2004 PL_{81}	16.1	X	216.46053	223.30850	140.74907	8.77796	0.2346800	0.21386225	2.7693635	21	4 7.9	21.0
223678 2004 PH_{82}	16.5	X	236.43914	327.42851	5.31020	4.27192	0.1145065	0.21399206	2.7682434	21	3 20.8	20.7
223679 2004 PA_{86}	15.7	X	312.41250	310.27385	301.21209	12.05499	0.1463973	0.21745130	2.7388067	21	2 23.8	19.6
223680 2004 PF_{87}	16.1	X	213.43344	29.23394	359.86257	5.85032	0.0803537	0.21939682	2.7225915	21	5 5.5	20.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
223681 2004 PE_{89}	16.3	X	297.79349	95.60160	177.62186	8.92629	0.1823935	0.21844722	2.7304760	21	3 3.4	20.2
223682 2004 PO_{92}	15.5	X	209.68121	23.53864	286.75352	10.03632	0.1262526	0.20489645	2.8495728	21	1 26.8	20.0
223683 2004 PA_{93}	16.1	X	229.22197	337.18732	8.24889	8.85805	0.2786144	0.21443906	2.7643951	21	3 22.6	21.0
223684 2004 PM_{93}	15.9	X	146.03595	128.60445	292.88892	8.28399	0.1061317	0.20880327	2.8139164	21	4 3.5	20.3
223685 Hartopp	15.6	X	130.68008	167.61803	275.66148	13.95041	0.1084470	0.21264718	2.7799030	21	4 12.2	20.0
223686 2004 QV_{1}	16.0	X	137.74875	195.30122	192.76345	17.80540	0.2407149	0.20246109	2.8723785	21	2 28.9	20.8
223687 2004 QN_{11}	15.9	X	253.47369	312.22435	12.24618	9.22373	0.1619536	0.21542958	2.7559150	21	3 24.6	20.2
223688 2004 QQ_{17}	14.8	X	348.75103	76.95459	344.99963	25.01365	0.2655895	0.17803414	3.1294440	21	—	—
223689 2004 QA_{26}	16.8	X	185.51896	336.08224	97.15326	2.46129	0.1577191	0.21973804	2.7197723	21	6 2.9	21.2
223690 2004 QD_{27}	16.8	X	74.69574	277.03954	212.52421	3.75483	0.0140778	0.21108750	2.7935795	21	3 23.7	20.6
223691 2004 QK_{27}	16.0	X	235.13226	353.15196	348.04298	14.09616	0.1390850	0.21504278	2.7592188	21	3 25.1	20.5
223692 2004 RK_{1}	15.3	X	238.76469	338.21518	3.10542	17.32979	0.2248463	0.21396195	2.7685031	21	3 26.1	20.1
223693 2004 RG_{16}	16.2	X	208.94429	64.31996	316.11259	2.96537	0.1111518	0.21473074	2.7618912	21	4 19.6	20.5
223694 2004 RT_{21}	16.6	X	275.25255	147.43721	189.51070	1.71420	0.1798949	0.21956657	2.7211881	21	4 28.9	20.4
223695 2004 RC_{24}	17.1	X	110.38562	314.81307	173.07673	25.19681	0.0567324	0.39011731	1.8549800	21	5 4.4	19.3
223696 2004 RL_{26}	16.4	X	205.63596	13.33506	341.66903	12.45436	0.1862738	0.21092117	2.7950480	21	3 15.4	21.2
223697 2004 RO_{28}	16.3	X	214.15720	356.30792	350.75492	4.05930	0.0811505	0.21146242	2.7902766	21	3 16.8	20.6
223698 2004 RB_{30}	16.2	X	233.82163	222.29189	141.96255	3.52067	0.0823919	0.21781361	2.7357687	21	4 29.6	20.2
223699 2004 RC_{30}	15.8	X	146.03409	41.90935	325.56900	5.42774	0.0989693	0.20355697	2.8620600	21	2 1.4	20.0
223700 2004 RT_{31}	15.9	X	265.65232	287.79036	19.56983	5.55006	0.0450075	0.21412545	2.7670936	21	3 28.7	19.6
223701 2004 RR_{34}	16.0	X	352.20066	212.21102	58.90359	4.30485	0.1166609	0.22300396	2.6931528	21	6 2.5	19.0
223702 2004 RZ_{34}	16.0	X	254.89250	298.53448	44.87776	5.42096	0.1331294	0.21701126	2.7425078	21	4 20.9	20.1
223703 2004 RM_{35}	16.1	X	210.20124	326.29999	18.73194	5.79148	0.0737607	0.20967885	2.8060773	21	3 12.3	20.3
223704 2004 RQ_{39}	16.3	X	247.93271	183.84083	142.99239	4.79828	0.1005118	0.21381795	2.7697460	21	3 27.9	20.4
223705 2004 RU_{40}	15.3	X	195.95348	273.17096	65.97955	15.71294	0.1671248	0.20540343	2.8448820	21	2 26.6	20.3
223706 2004 RH_{46}	15.9	X	192.54592	3.57902	353.94813	6.09874	0.0921812	0.20844790	2.8171136	21	3 8.3	20.0
223707 2004 RF_{48}	16.2	X	246.98668	234.59554	91.07247	1.72278	0.0692265	0.21286411	2.7780140	21	3 27.6	20.1
223708 2004 RD_{61}	15.9	X	329.30530	107.69853	195.70907	3.54962	0.0741483	0.22272667	2.6953876	21	6 13.9	19.3
223709 2004 RO_{61}	16.0	X	242.24837	14.71416	325.02960	3.09702	0.1301991	0.21386858	2.7693088	21	4 1.7	20.3
223710 2004 RX_{68}	15.6	X	216.31312	215.06323	177.47767	13.08145	0.1615459	0.21503834	2.7592568	21	5 13.9	20.2
223711 2004 RL_{71}	15.7	X	292.04697	203.96103	98.85757	4.08564	0.0998806	0.21619327	2.7494211	21	4 18.2	19.4
223712 2004 RP_{79}	15.3	X	83.71351	12.47996	10.29258	9.89101	0.0806209	0.19029492	2.9935367	21	—	—
223713 2004 RE_{81}	16.4	X	155.61990	113.98469	234.68694	2.04104	0.2185535	0.20051271	2.8909558	21	1 30.1	21.1
223714 2004 RL_{87}	16.0	X	141.52207	305.88006	334.08323	3.72743	0.0789414	0.18957866	3.0010720	21	12 27.6	20.6
223715 2004 RM_{90}	15.6	X	200.58140	138.07674	171.39852	15.34714	0.1482031	0.20478124	2.8506415	21	1 17.8	20.4
223716 2004 RB_{91}	15.7	X	144.24739	91.48099	290.96167	11.87369	0.0703470	0.20576613	2.8415380	21	2 9.9	19.9
223717 2004 RG_{92}	16.4	X	225.70062	166.56077	205.14518	4.37319	0.1409033	0.21630396	2.7484831	21	4 25.6	20.8
223718 2004 RW_{94}	15.9	X	265.02903	61.64158	275.25753	4.96058	0.0491086	0.21800709	2.7341498	21	5 2.1	19.8
223719 2004 RW_{95}	16.0	X	153.84838	130.90054	290.27872	11.02631	0.1121913	0.21301783	2.7766773	21	4 10.5	20.5
223720 2004 RB_{106}	15.5	X	223.88734	145.75158	207.79763	11.59134	0.1488395	0.21114999	2.7930284	21	3 31.1	20.0
223721 2004 RD_{106}	15.2	X	132.75119	86.76098	240.76002	8.55004	0.0799442	0.19173687	2.9785093	21	—	—
223722 2004 RY_{110}	16.0	X	316.69727	81.83515	219.93940	4.05036	0.0790607	0.22045058	2.7139086	21	5 22.7	19.4
223723 2004 RA_{111}	16.1	X	244.56405	324.08102	25.84805	2.40048	0.1133655	0.21464505	2.7626263	21	4 19.3	20.2
223724 2004 RH_{114}	15.6	X	113.94804	277.28536	115.86855	3.15069	0.0727750	0.20144532	2.8820262	21	1 22.7	19.5
223725 2004 RJ_{114}	16.2	X	264.14322	229.49563	106.09397	5.46480	0.1313707	0.21796873	2.7344706	21	4 22.9	20.3
223726 2004 RT_{114}	16.3	X	359.51410	221.40105	68.20323	2.98170	0.1807663	0.22861888	2.6488741	21	7 15.2	18.5
223727 2004 RX_{116}	15.9	X	282.11310	275.32166	47.86603	5.61870	0.1135388	0.21879348	2.7275944	21	4 28.5	19.5
223728 2004 RZ_{116}	16.1	X	225.99316	27.52595	10.77318	9.73642	0.1607088	0.21958417	2.7210427	21	5 25.2	20.6
223729 2004 RK_{131}	17.0	X	186.27466	298.27851	102.94639	0.43876	0.0738947	0.21394640	2.7686373	21	4 23.6	21.1
223730 2004 RE_{139}	15.8	X	229.63171	122.55487	204.65415	12.55862	0.1344759	0.21276544	2.7788727	21	3 3.3	20.4
223731 2004 RM_{139}	16.4	X	117.26430	328.53110	337.47944	2.55047	0.1456112	0.18966485	3.0001627	21	—	—
223732 2004 RV_{139}	15.5	X	223.14600	257.72581	357.73007	10.07447	0.0600827	0.19793714	2.9159799	21	—	—
223733 2004 RD_{141}	15.7	X	178.72979	210.48464	118.53715	6.13776	0.1169860	0.20051403	2.8909430	21	1 21.7	20.2
223734 2004 RK_{149}	15.5	X	215.50672	288.39710	35.92556	6.72879	0.1515141	0.20568389	2.8422953	21	2 21.6	20.2
223735 2004 RR_{149}	16.4	X	273.41258	314.32434	350.03824	1.27667	0.0719704	0.21305028	2.7763953	21	3 30.1	20.2
223736 2004 RY_{149}	15.6	X	315.05859	194.79438	0.35025	12.22713	0.0545772	0.20235653	2.8733679	21	1 11.1	19.8
223737 2004 RR_{152}	16.0	X	222.41275	155.99991	222.02455	8.60598	0.2052422	0.21627431	2.7487343	21	4 26.8	20.5
223738 2004 RA_{153}	16.5	X	330.50595	165.26885	232.65504	6.08040	0.2003890	0.23488547	2.6015487	21	10 26.4	18.6
223739 2004 RO_{156}	16.0	X	207.50445	163.78656	190.39908	12.48476	0.1976204	0.20986456	2.8044216	21	3 16.9	20.9
223740 2004 RU_{160}	16.4	X	86.49493	254.89128	194.21398	5.77980	0.0498250	0.20481183	2.8503577	21	2 20.5	20.3
223741 2004 RT_{161}	15.6	X	35.05574	39.34535	236.89109	12.86779	0.1231348	0.23154340	2.6265224	21	8 22.3	19.1
223742 2004 RS_{167}	16.0	X	241.47968	143.40407	203.73236	9.31327	0.0149339	0.21364987	2.7711984	21	4 22.2	19.8
223743 2004 RT_{173}	16.2	X	218.71511	229.99140	172.36671	9.23657	0.3021099	0.21861726	2.7290600	21	5 21.5	21.3
223744 2004 RV_{175}	15.5	X	334.98464	242.96492	287.39841	10.57733	0.0346696	0.20175144	2.8791102	21	1 5.9	19.5
223745 2004 RV_{179}	16.0	X	180.38978	87.28529	314.70373	10.09961	0.1993189	0.21049087	2.7988559	21	4 16.9	20.9
223746 2004 RO_{180}	15.8	X	232.42649	172.87793	229.02188	5.80293	0.0475808	0.22104377	2.7090511	21	6 17.8	19.6
223747 2004 RA_{184}	15.6	X	224.35301	149.15384	195.04753	7.50148	0.1044299	0.21029260	2.8006149	21	3 22.7	19.9
223748 2004 RT_{188}	15.4	X	238.01909	36.18187	284.61210	7.18699	0.2252825	0.21008035	2.8025009	21	2 27.3	20.2
223749 2004 RO_{189}	15.5	X	209.70636	136.00541	257.12152	8.07715	0.1707110	0.21347284	2.7727303	21	5 4.6	20.2
223750 2004 RJ_{194}	15.8	X	192.24727	172.66455	214.88436	9.10681	0.1682683	0.20983983	2.8046420	21	4 13.3	20.5
223751 2004 RR_{196}	15.5	X	231.86297	25.10921	355.69442	8.96918	0.1709002	0.21400818	2.7681044	21	5 7.8	20.0
223752 2004 RO_{197}	16.1	X	158.56519	151.78902	230.89030	3.51538	0.0881969	0.20440946	2.8540970	21	3 1.9	20.4
223753 2004 RE_{206}	15.4	X	282.57465	92.38993	270.07585	11.49460	0.2267524	0.21947251	2.7219656	21	6 2.8	19.3
223754 2004 RR_{208}	15.3	X	183.26936	116.38575	299.01480	15.46306	0.0471086	0.21482766	2.7610605	21	5 1.9	19.7
223755 2004 RH_{217}	15.4	X	255.47359	46.49283	274.25363	10.84890	0.1754847	0.21186386	2.7867508	21	3 14.5	20.1
223756 2004 RG_{223}	15.6	X	210.98331	52.55024	194.81367	11.59876	0.0393404	0.18928233	3.0042034	21	—	—
223757 2004 RA_{230}	16.9	X	315.04555	56.59548	224.37480	1.85656	0.0529006	0.21298853	2.7769320	21	4 25.9	20.6
223758 2004 RC_{232}	16.5	X	78.86169	348.47557	84.07170	0.39994	0.1763498	0.19599848	2.9351767	21	2 9.7	20.0
223759 2004 RF_{233}	16.3	X	90.58622	240.58122	162.29970	2.43822	0.1058976	0.19436584	2.9515904	21	1 10.2	20.1
223760 2004 RH_{235}	16.2	X	209.38308	123.56138	257.03707	1.57961	0.1843759	0.21271597	2.7793035	21	4 19.5	20.8

Planet		H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
		m		°	°	°	°		°				
223761	2004 RO_{240}	16.4	X	107.89075	229.15639	188.35783	1.79054	0.0598412	0.20308689	2.8664747	21	2 11.4	20.3
223762	2004 RA_{245}	16.5	X	326.82073	241.89898	21.91899	3.04586	0.0255269	0.21532698	2.7567904	21	4 22.6	20.1
223763	2004 RW_{245}	16.3	X	168.16762	31.09079	14.55563	5.79731	0.0670304	0.21111496	2.7933373	21	4 8.7	20.3
223764	2004 RL_{255}	15.6	X	258.95920	267.02359	68.70242	12.09057	0.1520090	0.21511410	2.7586089	21	4 17.9	19.9
223765	2004 RX_{256}	16.1	X	190.50303	216.35905	139.07658	4.35770	0.1051941	0.20982639	2.8047618	21	3 4.3	20.5
223766	2004 RP_{257}	15.5	X	267.16183	315.04805	20.51048	5.70126	0.0993261	0.21629872	2.7485275	21	4 27.1	19.3
223767	2004 RW_{281}	16.4	X	154.62702	37.78508	330.97642	1.17386	0.0795295	0.20322819	2.8651460	21	2 9.8	20.5
223768	2004 RE_{290}	15.3	X	251.70379	242.85628	81.70319	8.74734	0.2220337	0.21299804	2.7768493	21	3 22.4	20.0
223769	2004 RF_{291}	16.5	X	219.80762	121.61193	200.17446	3.77629	0.0989113	0.20972241	2.8056887	21	2 18.8	20.8
223770	2004 RH_{300}	16.3	X	129.77505	78.61742	15.96726	3.36958	0.0601077	0.21216551	2.7841088	21	4 25.3	20.3
223771	2004 RL_{308}	15.7	X	241.11711	145.64146	240.85714	8.59225	0.0455665	0.21830733	2.7316424	21	6 8.6	19.4
223772	2004 RD_{322}	15.7	X	154.22883	92.25357	355.24418	9.00724	0.1496331	0.21116966	2.7928549	21	5 19.4	20.2
223773	2004 RB_{333}	16.2	X	241.00989	249.39224	116.64168	7.21085	0.0924691	0.21707734	2.7419512	21	5 10.3	20.3
223774	2004 SB_{11}	15.7	X	239.14369	235.64013	64.01450	9.90324	0.1438987	0.20890165	2.8130328	21	2 14.5	20.4
223775	2004 SV_{11}	15.4	X	200.88165	260.31018	65.00717	11.94151	0.1893436	0.20578424	2.8413712	21	2 11.9	20.4
223776	2004 SS_{14}	15.3	X	120.37006	255.90856	72.22557	10.08122	0.1078728	0.19053913	2.9909784	21	—	—
223777	2004 SD_{16}	15.3	X	122.62105	276.32899	94.52777	7.45624	0.1013083	0.19736961	2.9215670	21	1 11.0	19.3
223778	2004 SK_{21}	16.2	X	225.65752	104.86041	301.59274	4.55384	0.0602270	0.22262035	2.6962458	21	6 14.3	20.1
223779	2004 SO_{23}	16.2	X	219.48733	25.65384	3.21853	1.03169	0.1000762	0.21360922	2.7715500	21	5 12.7	20.4
223780	2004 SD_{30}	16.7	X	186.89339	176.32408	223.56363	2.02885	0.1890466	0.21057877	2.7980769	21	4 24.3	21.4
223781	2004 SE_{32}	16.0	X	148.86279	13.51570	15.02790	4.64216	0.1280950	0.20280684	2.8691130	21	3 5.6	20.4
223782	2004 ST_{37}	16.5	X	275.74746	43.89641	232.94403	3.44762	0.0317748	0.20997489	2.8034392	21	3 2.4	20.4
223783	2004 SB_{42}	16.3	X	257.48627	118.71596	199.04004	5.59618	0.0909427	0.21362638	2.7714016	21	3 25.8	20.5
223784	2004 SC_{45}	15.6	X	198.62000	304.82793	344.65082	9.92515	0.1079747	0.19755257	2.9197630	21	—	—
223785	2004 SQ_{46}	16.4	X	160.92126	112.80832	315.97710	6.56818	0.2094697	0.20996956	2.8034867	21	5 5.9	21.3
223786	2004 SQ_{47}	15.2	X	232.32269	146.87108	232.70989	11.33935	0.1424401	0.21418002	2.7666236	21	5 11.7	19.5
223787	2004 SD_{48}	15.1	X	47.99970	78.31082	19.96490	13.28463	0.1891821	0.19084947	2.9877350	21	1 28.8	18.5
223788	2004 SK_{50}	15.0	X	278.12048	97.17949	17.77737	22.71206	0.0429566	0.17831513	3.1261556	21	11 7.8	19.6
223789	2004 SR_{50}	15.7	X	228.40172	211.40237	8.01673	9.73196	0.1041179	0.18807500	3.0170465	21	—	—
223790	2004 SZ_{50}	16.3	X	227.46558	314.16964	352.58169	1.63861	0.0221827	0.20234291	2.8734968	21	2 13.9	20.4
223791	2004 TS_{1}	15.8	X	195.90047	265.38563	109.18046	7.04206	0.0762570	0.20955876	2.8071492	21	4 4.5	20.1
223792	2004 TZ_{5}	16.5	X	229.48950	249.35170	60.96692	2.95660	0.0501656	0.20302673	2.8670410	21	2 20.3	20.7
223793	2004 TV_{7}	16.3	X	188.00732	232.06844	187.86057	6.35951	0.0467732	0.21531724	2.7568736	21	5 20.3	20.3
223794	2004 TN_{10}	16.1	X	70.46505	315.26811	155.93656	4.09032	0.1225527	0.20306440	2.8666864	21	3 10.4	19.5
223795	2004 TY_{15}	15.6	X	357.77154	161.74859	276.13482	1.70210	0.0497034	0.18388814	3.0626703	21	—	—
223796	2004 TY_{18}	17.3	X	72.18216	297.32901	217.66635	22.51384	0.1286429	0.38494191	1.8715693	21	4 17.4	18.2
223797	2004 TM_{19}	15.1	X	259.01146	228.19096	44.57862	13.81862	0.1463290	0.20384623	2.8593518	21	2 2.7	19.8
223798	2004 TK_{27}	15.7	X	78.57641	197.87557	190.95464	9.60119	0.0693016	0.19182095	2.9776389	21	—	—
223799	2004 TN_{35}	16.6	X	144.14106	131.42330	282.57198	0.93250	0.0624164	0.20489210	2.8496132	21	3 22.9	20.7
223800	2004 TQ_{36}	15.6	X	195.93840	7.28746	204.22036	7.21729	0.1111192	0.18145628	3.0899732	21	11 29.3	20.4
223801	2004 TR_{38}	16.7	X	240.66290	263.75821	74.20664	1.53515	0.0750883	0.20999928	2.8032221	21	4 4.5	20.9
223802	2004 TW_{38}	16.1	X	300.81935	343.71142	196.65239	10.47358	0.0397187	0.19256793	2.9699336	21	—	—
223803	2004 TM_{40}	16.1	X	318.37081	45.38406	199.86184	7.94520	0.1677791	0.20950768	2.8076055	21	2 23.9	20.0
223804	2004 TA_{43}	16.0	X	246.50342	237.44801	289.28281	1.93706	0.0769956	0.17988666	3.1079217	21	12 3.8	20.3
223805	2004 TL_{48}	16.0	X	148.13658	315.62537	53.08987	2.79954	0.1001947	0.19802750	2.9150928	21	2 6.7	20.2
223806	2004 TA_{53}	16.4	X	126.99144	121.19271	324.47737	1.17104	0.0307466	0.20482117	2.8502710	21	4 7.3	20.2
223807	2004 TR_{53}	15.3	X	359.00822	12.80365	35.58122	10.19240	0.0568763	0.17824167	3.1270144	21	12 9.7	19.6
223808	2004 TF_{56}	15.8	X	316.97275	63.13609	217.01205	8.31103	0.1531231	0.21913702	2.7247430	21	4 10.9	19.2
223809	2004 TC_{61}	15.3	X	162.17307	2.71374	32.87992	13.03626	0.1867851	0.20613749	2.8381241	21	4 1.8	20.0
223810	2004 TM_{65}	15.6	X	112.45984	225.08841	102.91820	10.04277	0.1433587	0.18782032	3.0197732	21	—	—
223811	2004 TL_{72}	16.0	X	206.53549	253.36170	85.49362	1.66329	0.0700724	0.20470674	2.8513331	21	2 28.8	20.2
223812	2004 TN_{75}	15.5	X	38.58062	5.87438	39.29015	17.77261	0.1751882	0.18445489	3.0563935	21	—	—
223813	2004 TF_{86}	16.2	X	167.17502	349.81127	16.73205	1.94707	0.0802062	0.20298921	2.8673943	21	2 21.3	20.5
223814	2004 TR_{93}	16.5	X	146.07580	170.26307	270.19773	0.69385	0.0714594	0.20890143	2.8130348	21	4 28.3	20.5
223815	2004 TU_{94}	15.7	X	284.22448	118.10421	0.99129	0.77734	0.2001972	0.17732593	3.1377709	21	11 6.6	19.6
223816	2004 TQ_{97}	16.1	X	238.82489	183.30307	32.77439	11.36397	0.0543451	0.18828526	3.0147999	21	—	—
223817	2004 TP_{99}	16.0	X	249.97233	34.73274	149.44040	2.82581	0.0979156	0.18426885	3.0584503	21	12 27.0	20.2
223818	2004 TA_{103}	15.0	X	351.79080	159.39384	293.61829	9.54337	0.0633908	0.18241017	3.0791914	21	—	—
223819	2004 TD_{106}	15.7	X	164.99499	288.01740	127.75216	5.22930	0.0676641	0.21049321	2.7988352	21	4 20.7	19.8
223820	2004 TG_{106}	15.4	X	236.10783	194.32824	85.51247	3.40341	0.0853749	0.20188503	2.8778400	21	1 19.4	19.7
223821	2004 TX_{107}	16.0	X	141.32677	59.08984	32.68520	12.57181	0.1725253	0.20947484	2.8078989	21	5 14.5	20.6
223822	2004 TJ_{110}	15.1	X	317.27331	79.28578	37.23582	21.93941	0.1065244	0.18201507	3.0836457	21	—	—
223823	2004 TP_{111}	15.8	X	5.41481	254.95417	206.56859	9.57682	0.1547775	0.18756975	3.0224620	21	—	—
223824	2004 TA_{114}	15.4	X	62.91931	15.28345	41.68782	10.39205	0.0795414	0.18950544	3.0018449	21	—	—
223825	2004 TY_{115}	15.6	X	84.71085	344.91714	105.66902	7.44171	0.1643972	0.19851396	2.9103285	21	3 14.5	19.4
223826	2004 TS_{121}	16.0	X	214.95992	29.49245	341.92555	3.86149	0.0848499	0.21095490	2.7947501	21	4 15.6	20.3
223827	2004 TC_{122}	15.1	X	81.66177	293.85418	37.05637	17.02382	0.1145450	0.18279613	3.0748556	21	12 27.2	20.0
223828	2004 TJ_{122}	15.7	X	168.75843	311.49955	61.33513	2.95798	0.0717578	0.20346883	2.8628864	21	3 2.8	19.9
223829	2004 TR_{125}	16.4	X	184.37045	348.09385	9.72332	1.83474	0.0842096	0.20488832	2.8496482	21	2 28.6	20.6
223830	2004 TW_{125}	15.4	X	205.60869	295.85761	83.67804	7.09700	0.0624035	0.21161103	2.7889700	21	4 20.6	19.5
223831	2004 TG_{129}	15.8	X	92.91045	225.32656	161.80759	9.15677	0.0998271	0.19291678	2.9663522	21	—	—
223832	2004 TA_{136}	15.4	X	126.42903	357.11836	355.24190	10.57087	0.0668976	0.19259399	2.9696657	21	—	—
223833	2004 TP_{136}	15.1	X	277.85717	39.26150	227.30638	13.11075	0.0503861	0.20408315	2.8571384	21	2 15.0	19.4
223834	2004 TA_{141}	15.6	X	287.14302	67.62201	192.66780	8.79093	0.0912069	0.20703783	2.8298902	21	2 15.5	19.7
223835	2004 TP_{143}	16.5	X	179.67564	137.60927	254.87822	0.97146	0.0725522	0.20676966	2.8323365	21	4 5.5	20.8
223836	2004 TS_{143}	15.2	X	150.43072	91.77618	217.14682	9.24896	0.1100063	0.18979925	2.9987462	21	—	—
223837	2004 TO_{144}	15.4	X	68.85673	312.40510	37.08241	11.37548	0.1122265	0.18240108	3.0792937	21	—	—
223838	2004 TV_{144}	15.7	X	87.99316	347.07181	9.25559	3.82055	0.1958829	0.18619295	3.0373434	21	—	—
223839	2004 TC_{152}	15.9	X	315.12901	298.79910	205.22971	11.34283	0.0641425	0.18856598	3.0118071	21	—	—
223840	2004 TY_{155}	16.3	X	108.05563	139.88820	184.38602	5.70408	0.1400043	0.18718459	3.0266067	21	—	—

ELEMENTS AND OPPOSITION DATES IN 2021

ECLIPTIC AND EQUINOX 2000.0, EPOCH 2021 JULY 5.0 TT

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
223841 2004 TO_{162}	15.5	X	78.94732	348.92126	39.55813	10.40270	0.0506337	0.18855141	3.0119622	21	—	—
223842 2004 TR_{168}	15.9	X	239.93410	171.31391	177.66995	6.96419	0.0734972	0.21136298	2.7911517	21	4 18.3	19.9
223843 2004 TA_{173}	15.2	X	149.40923	69.07153	265.01140	9.76601	0.1217399	0.19257089	2.9699031	21	—	—
223844 2004 TH_{173}	15.1	X	34.24342	77.46234	312.96594	9.81209	0.0882113	0.18091929	3.0960845	21	—	—
223845 2004 TL_{174}	16.7	X	240.22534	130.78059	236.98427	1.14908	0.0937087	0.21594391	2.7515374	21	5 8.9	20.6
223846 2004 TW_{190}	16.4	X	184.85245	30.79067	34.58852	3.48849	0.0877391	0.21401694	2.7680289	21	5 22.4	20.6
223847 2004 TM_{191}	15.6	X	215.42711	312.84039	25.33795	8.90315	0.0845275	0.20663762	2.8335429	21	3 11.2	19.9
223848 2004 TA_{199}	16.8	X	83.71479	24.70939	51.24396	2.26148	0.1640224	0.19650294	2.9301510	21	2 20.3	20.4
223849 2004 TT_{202}	15.7	X	3.50415	66.17143	16.12855	3.75145	0.1511593	0.18244609	3.0787872	21	—	—
223850 2004 TN_{203}	15.5	X	261.07611	157.70251	35.34564	5.52881	0.1219996	0.18269154	3.0760290	21	—	—
223851 2004 TO_{203}	16.1	X	136.43775	44.92473	280.44736	1.04179	0.2338636	0.18950443	3.0018556	21	—	—
223852 2004 TH_{211}	15.8	X	202.86076	124.03188	244.69656	5.50519	0.0859157	0.20703662	2.8299011	21	3 30.1	20.1
223853 2004 TW_{219}	16.7	X	284.93028	111.65650	157.42651	2.40321	0.0146936	0.20492069	2.8493481	21	3 9.0	20.5
223854 2004 TL_{239}	15.8	X	155.93095	278.88768	31.54200	11.91992	0.0445040	0.18947903	3.0021239	21	—	—
223855 2004 TR_{241}	15.2	X	143.48775	41.03565	272.40096	10.55074	0.0753745	0.19033881	2.9930765	21	—	—
223856 2004 TS_{241}	15.3	X	136.14861	101.48556	259.18898	9.21298	0.0698000	0.19431963	2.9520583	21	1 9.5	19.5
223857 2004 TE_{242}	16.3	X	144.13695	314.46083	46.43045	2.64201	0.0872502	0.19588395	2.9363207	21	1 22.6	20.6
223858 2004 TK_{273}	15.9	X	179.28504	334.75048	325.22146	1.72410	0.1787517	0.19205374	2.9752322	21	—	—
223859 2004 TJ_{275}	16.4	X	54.08854	219.92808	193.30329	0.46537	0.1011361	0.18749302	3.0232866	21	—	—
223860 2004 TP_{278}	15.8	X	315.41123	228.33458	198.10924	4.72298	0.0042149	0.17367560	3.1815849	21	11 6.3	20.2
223861 2004 TU_{283}	16.4	X	155.68645	335.85832	27.69914	2.17107	0.0855014	0.20085944	2.8876278	21	2 6.4	20.5
223862 2004 TS_{285}	15.3	X	341.27234	111.57639	301.11721	7.99223	0.0639151	0.17524970	3.1625048	21	11 19.9	19.6
223863 2004 TU_{295}	15.4	X	120.30472	278.74164	43.19498	10.22470	0.0961694	0.18443474	3.0566162	21	—	—
223864 2004 TH_{296}	15.5	X	130.00779	139.64557	226.73509	8.54480	0.0854215	0.19257403	2.9698708	21	1 11.1	19.9
223865 2004 TE_{308}	15.1	X	338.95850	193.04972	274.86865	8.54031	0.0619714	0.18542003	3.0457782	21	—	—
223866 2004 TU_{308}	15.4	X	155.49642	39.44815	277.40324	9.13717	0.0076701	0.19262450	2.9693521	21	—	—
223867 2004 TQ_{322}	15.1	X	99.60403	61.99939	227.17729	8.32013	0.0768389	0.17494955	3.1661209	21	11 22.9	19.7
223868 2004 TQ_{327}	15.7	X	266.36010	177.96813	104.62817	5.80235	0.0780479	0.20859318	2.8158054	21	2 24.8	19.9
223869 2004 TJ_{336}	15.9	X	335.48451	51.43508	80.84585	1.49910	0.1875102	0.18412051	3.0600928	21	—	—
223870 2004 TX_{336}	15.8	X	347.48964	61.48749	52.32398	3.50254	0.2235342	0.18278164	3.0750181	21	—	—
223871 2004 TK_{343}	15.1	X	75.53283	277.53266	48.08008	11.32140	0.0724906	0.17929490	3.1147565	21	12 8.2	19.7
223872 2004 TX_{344}	15.1	X	105.78293	325.05947	46.62526	9.43703	0.0980142	0.18924901	3.0045561	21	—	—
223873 2004 TU_{345}	15.4	X	90.07701	138.47303	246.76307	10.10461	0.0680029	0.19030811	2.9933983	21	—	—
223874 2004 TG_{359}	15.4	X	193.13952	155.73039	66.06933	6.54938	0.0908780	0.17805785	3.1291662	21	12 8.5	20.2
223875 2004 TH_{366}	15.5	X	137.95457	229.83180	39.58396	5.45997	0.0499127	0.17862397	3.1225511	21	12 8.3	20.2
223876 2004 TT_{366}	16.5	X	71.14582	287.50082	117.72208	2.24744	0.1214668	0.18914491	3.0056583	21	—	—
223877 Kutler	15.7	X	89.07100	284.80785	54.02050	12.92303	0.3375107	0.18468032	3.0539058	21	—	—
223878 2004 UC_{2}	15.8	X	106.29042	324.60640	117.52105	7.11926	0.2196877	0.20220834	2.8747715	21	4 7.9	20.0
223879 2004 UL_{5}	16.3	X	345.40386	119.89477	58.49624	2.91463	0.0235631	0.19641707	2.9310050	21	2 1.4	20.3
223880 2004 UK_{8}	15.5	X	47.88572	49.03676	31.82368	10.47181	0.0324410	0.19077094	2.9885549	21	—	—
223881 2004 UB_{9}	15.8	X	120.76939	7.14868	33.55827	2.64328	0.0863443	0.19622005	2.9329667	21	2 13.1	20.0
223882 2004 UH_{10}	15.5	X	150.15291	350.79069	32.22111	9.91867	0.1099918	0.19770629	2.9182493	21	3 2.4	20.0
223883 2004 VC_{1}	15.1	X	81.10180	273.33073	98.45179	8.13999	0.1204693	0.18750108	3.0231999	21	—	—
223884 2004 VT_{4}	16.2	X	54.02348	79.64412	16.34176	11.66289	0.2544214	0.19126831	2.9833717	21	2 13.8	19.3
223885 2004 VL_{6}	15.3	X	62.39344	356.96080	58.91587	13.85235	0.1268769	0.18877485	3.0095851	21	—	—
223886 2004 VO_{9}	15.4	X	46.84471	357.50190	84.89900	9.24028	0.2664273	0.18882932	3.0090063	21	1 5.6	18.1
223887 2004 VY_{9}	15.8	X	70.87573	198.40173	160.58355	4.71158	0.2385986	0.18325918	3.0696738	21	—	—
223888 2004 VA_{14}	15.7	X	82.60567	191.47950	215.12237	8.99550	0.1231489	0.19011840	2.9953893	21	1 5.8	19.7
223889 2004 VS_{14}	15.9	X	290.81600	107.79941	278.45594	4.98695	0.0330216	0.22022411	2.7157689	21	8 14.1	19.4
223890 2004 VN_{16}	17.2	X	195.64258	355.06189	49.01303	24.56805	0.0152245	0.38647290	1.8666233	21	4 27.4	18.9
223891 2004 VN_{20}	15.3	X	31.99066	358.02197	57.49463	10.07959	0.1265729	0.18418047	3.0594287	21	—	—
223892 2004 VF_{22}	15.0	X	120.41615	248.50179	67.91727	11.34007	0.1562432	0.18317848	3.0705752	21	—	—
223893 2004 VB_{23}	14.9	X	74.93246	280.04299	69.18476	17.04632	0.1304704	0.17958038	3.1114545	21	—	—
223894 2004 VJ_{23}	15.3	X	25.30799	342.00157	76.02035	7.29384	0.1658378	0.18239968	3.0793094	21	—	—
223895 2004 VZ_{24}	15.1	X	90.26913	268.70988	49.21936	23.09528	0.2132444	0.18039719	3.1020554	21	12 28.1	20.4
223896 2004 VH_{26}	15.7	X	84.32804	92.72937	323.86866	3.32280	0.1432423	0.19255590	2.9700573	21	1 24.8	19.5
223897 2004 VL_{27}	15.2	X	17.44525	1.92661	26.79285	9.77857	0.0244951	0.17811155	3.1285373	21	12 6.7	19.6
223898 2004 VX_{27}	15.3	X	1.45288	112.26967	319.03092	4.68038	0.1437128	0.18015982	3.1047794	21	—	—
223899 2004 VO_{28}	15.2	X	138.55907	300.92292	55.66114	12.00036	0.0962206	0.19184678	2.9773716	21	1 13.8	19.7
223900 2004 VB_{32}	15.8	X	58.08419	292.54352	102.15817	3.74384	0.1859981	0.18532500	3.0468194	21	—	—
223901 2004 VM_{35}	16.4	X	109.54684	256.36436	106.91245	2.72056	0.1487345	0.18991040	2.9975761	21	—	—
223902 2004 VX_{35}	16.1	X	44.94443	141.53900	246.45083	2.23835	0.1520996	0.18244244	3.0788283	21	—	—
223903 2004 VU_{44}	15.5	X	317.73529	74.32227	72.82499	10.85984	0.0510358	0.18508121	3.0494943	21	—	—
223904 2004 VK_{56}	15.4	X	287.25153	102.85502	52.85262	9.67139	0.0543538	0.18046211	3.1013113	21	—	—
223905 2004 VH_{58}	15.4	X	226.62529	334.70972	263.27970	7.92695	0.0547363	0.18679333	3.0308316	21	—	—
223906 2004 VJ_{60}	15.1	X	293.32916	111.71268	53.67757	20.75638	0.2711941	0.17870988	3.1215503	21	—	—
223907 2004 VO_{60}	15.1	X	243.45634	100.09667	61.57632	10.05854	0.0586842	0.17447971	3.1718022	21	11 25.8	19.5
223908 2004 VQ_{60}	15.6	X	61.71278	9.42564	64.85816	3.28015	0.0722167	0.18982511	2.9984739	21	1 6.8	19.3
223909 2004 VJ_{64}	14.9	X	131.71502	234.98154	91.22495	20.13987	0.0823894	0.18649646	3.0340471	21	—	—
223910 2004 VN_{64}	15.1	X	27.62837	170.95425	228.32078	9.65205	0.0851953	0.17913900	3.1165633	21	—	—
223911 2004 VR_{65}	15.5	X	23.45545	203.37862	171.88847	4.53913	0.1279118	0.17752767	3.1353932	21	12 12.3	19.5
223912 2004 VF_{67}	16.0	X	240.68872	63.79314	230.36225	9.45475	0.0795933	0.19856481	2.9098316	21	2 6.9	20.5
223913 2004 VC_{73}	15.2	X	104.40713	318.18950	130.36821	9.33327	0.2234539	0.19928888	2.9027792	21	4 15.2	19.5
223914 2004 VH_{82}	14.9	X	52.83677	172.68370	263.58921	14.04530	0.2285362	0.18550106	3.0448912	21	1 6.8	18.0
223915 2004 VU_{90}	15.6	X	231.46270	117.89177	41.88881	2.11287	0.0992876	0.17476704	3.1683248	21	11 4.8	20.1
223916 2004 VA_{91}	16.3	X	129.80848	266.19307	171.13566	2.06446	0.0519065	0.20415401	2.8564773	21	4 3.9	20.4
223917 2004 VT_{91}	15.0	X	39.82918	339.51313	23.39387	16.40370	0.0840379	0.17660942	3.1462517	21	12 9.6	19.6
223918 2004 VU_{91}	15.5	X	106.22047	261.40912	101.07085	3.77302	0.0799032	0.18861354	3.0113008	21	—	—
223919 2004 VE_{94}	15.7	X	44.04003	317.06977	122.66923	3.24824	0.1953820	0.18815228	3.0162203	21	—	—
223920 2004 VB_{111}	16.2	X	254.70862	258.43358	44.57973	2.62577	0.0424148	0.20343999	2.8631570	21	3 12.3	20.2

Planet		H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
		m		°	°	°	°		°				
223921	2004 WJ	16.2	X	57.69895	254.61386	145.94073	3.77976	0.2524789	0.18677007	3.0310832	21	—	—
223922	2004 WA_3	15.1	X	156.36574	185.35280	73.23298	11.25319	0.0596707	0.17907101	3.1173521	21	12 15.4	19.7
223923	2004 WL_3	15.1	X	338.65736	63.19636	60.39502	12.43494	0.0745477	0.18429277	3.0581857	21	—	—
223924	2004 WR_4	15.4	X	70.69909	52.76218	345.74712	2.79660	0.1092520	0.18563160	3.0434636	21	—	—
223925	2004 WS_4	14.9	X	4.04615	136.86260	260.91760	16.65950	0.1330296	0.17468446	3.1693232	21	12 11.1	18.9
223926	2004 WL_6	14.9	X	297.21877	192.56398	264.74997	9.66851	0.0837873	0.17416353	3.1756398	21	11 11.7	19.2
223927	2004 WP_8	15.7	X	24.74461	256.87202	220.14452	2.83951	0.1850793	0.18910434	3.0060882	21	1 2.6	18.9
223928	2004 WM_{10}	15.6	X	238.81757	130.38608	274.92512	11.14366	0.1734600	0.21605147	2.7506241	21	6 17.4	19.8
223929	2004 WP_{10}	15.5	X	26.56404	114.51791	25.46075	10.11432	0.2177799	0.19082852	2.9879536	21	2 10.8	18.5
223930	2004 XM_1	15.5	X	68.85194	40.22056	337.84362	9.38449	0.1194888	0.18389983	3.0625404	21	—	—
223931	2004 XH_2	15.3	X	67.45203	27.01257	339.17195	5.77273	0.1793692	0.18278285	3.0750044	21	—	—
223932	2004 XD_5	15.1	X	90.29802	341.69918	61.30703	11.91071	0.0664838	0.18913279	3.0057868	21	1 6.9	19.2
223933	2004 XJ_5	14.5	X	57.55596	248.16129	60.85039	22.62482	0.0765133	0.16929712	3.2362074	21	11 3.1	19.2
223934	2004 XL_5	15.9	X	30.89924	95.61261	312.62278	3.59092	0.1617461	0.18126738	3.0921195	21	—	—
223935	2004 XV_6	15.3	X	20.70026	171.47639	279.91085	8.59794	0.1819196	0.18435639	3.0574821	21	—	—
223936	2004 XT_7	15.1	X	28.38767	343.16169	74.87207	10.47200	0.0893444	0.18076608	3.0978336	21	—	—
223937	2004 XM_{10}	15.1	X	118.45224	299.80886	83.61228	11.52883	0.0751825	0.19100023	2.9861627	21	1 19.8	19.3
223938	2004 XV_{13}	14.5	X	343.38267	332.72932	76.18531	18.29266	0.2049224	0.17120469	3.2121238	21	11 25.1	17.9
223939	2004 XG_{18}	15.7	X	19.60111	312.95760	92.19630	3.16203	0.1367917	0.17863114	3.1224675	21	—	—
223940	2004 XX_{21}	15.2	X	310.48483	186.10716	282.12090	3.99136	0.1756276	0.17460413	3.1702952	21	12 8.7	18.8
223941	2004 XJ_{24}	15.5	X	98.35853	280.69316	90.28362	2.94786	0.1054766	0.18719097	3.0265379	21	—	—
223942	2004 XG_{26}	15.2	X	7.80352	336.23076	63.33776	6.13897	0.1469337	0.17304506	3.1893089	21	12 20.0	19.2
223943	2004 XW_{26}	15.3	X	297.56503	52.80613	94.91320	6.70768	0.0958719	0.17882590	3.1202000	21	—	—
223944	2004 XE_{27}	14.7	X	3.47014	312.48857	64.45245	11.21157	0.0926373	0.16913784	3.2382387	21	11 11.0	18.9
223945	2004 XQ_{31}	15.4	X	334.47814	177.82420	293.65048	4.45417	0.1258198	0.17613441	3.1519058	21	—	—
223946	2004 XX_{33}	15.1	X	72.84316	159.35941	255.65399	14.93899	0.1148852	0.18775460	3.0204779	21	1 1.5	19.0
223947	2004 XB_{34}	15.4	X	58.92833	139.07179	253.93793	8.02458	0.0709068	0.18184928	3.0855197	21	—	—
223948	2004 XC_{34}	15.8	X	250.98167	112.27393	112.67413	2.14612	0.0166015	0.18454933	3.0553507	21	—	—
223949	2004 XG_{34}	15.7	X	41.94056	72.79659	9.71986	3.88901	0.1647035	0.18583503	3.0412421	21	—	—
223950	Mississauga	15.2	X	292.91118	193.00613	259.85907	8.84987	0.0569312	0.16964039	3.2318401	21	11 2.2	19.6
223951	2004 XG_{38}	15.3	X	56.37688	302.77196	137.97224	15.17090	0.1759487	0.18949215	3.0019853	21	1 14.7	18.8
223952	2004 XC_{49}	15.0	X	49.12495	314.67838	71.28523	12.28434	0.1969545	0.17850136	3.1239809	21	—	—
223953	2004 XC_{52}	15.1	X	353.75183	188.85309	233.15745	12.48791	0.0527118	0.17519914	3.1631132	21	12 19.1	19.4
223954	2004 XK_{71}	16.2	X	73.72993	335.23586	71.40682	4.02120	0.0530497	0.19007064	2.9958911	21	—	—
223955	2004 XL_{73}	15.2	X	341.04649	29.99900	99.29094	4.57156	0.1274178	0.18335112	3.0686475	21	—	—
223956	2004 XC_{74}	15.0	X	72.88476	132.44404	263.32159	14.00853	0.0465286	0.18429184	3.0581960	21	—	—
223957	2004 XO_{74}	14.3	X	12.55852	333.74495	106.43088	33.96221	0.2975963	0.17908509	3.1171888	21	—	—
223958	2004 XV_{76}	15.1	X	340.23385	74.60247	59.94669	7.11049	0.0618764	0.18527930	3.0473203	21	—	—
223959	2004 XE_{77}	15.0	X	79.12822	115.17450	234.61888	9.14012	0.0466643	0.17988762	3.1079107	21	—	—
223960	2004 XO_{79}	15.5	X	199.82336	350.35377	98.78400	6.14911	0.0351562	0.21282859	2.7783230	21	7 11.4	19.4
223961	2004 XG_{82}	15.6	X	308.28892	295.56383	192.09461	2.98371	0.1356134	0.17710824	3.1403415	21	—	—
223962	2004 XN_{83}	15.8	X	87.13173	58.37661	346.13044	1.21286	0.1230574	0.18728340	3.0255421	21	1 12.0	19.7
223963	2004 XD_{87}	15.9	X	26.15013	256.22774	145.95009	2.87603	0.1526853	0.18016360	3.1047361	21	—	—
223964	2004 XH_{93}	15.8	X	78.39989	25.93790	14.44552	1.26738	0.0854477	0.18478021	3.0528051	21	—	—
223965	2004 XY_{102}	14.7	X	20.48394	309.80098	67.44080	15.18849	0.2148565	0.17146785	3.2088364	21	12 19.7	18.7
223966	2004 XR_{108}	16.1	X	346.67242	73.34064	34.59884	5.85105	0.2480742	0.17868028	3.1218950	21	—	—
223967	2004 XF_{110}	15.2	X	9.86786	138.89097	302.67010	8.15603	0.1156934	0.18090316	3.0962685	21	—	—
223968	2004 XQ_{122}	15.5	X	303.31023	333.88269	125.02816	2.23938	0.1891503	0.17212920	3.2006119	21	11 12.9	19.1
223969	2004 XS_{125}	15.4	X	10.82042	59.03788	356.33532	13.98716	0.2209769	0.17552222	3.1592305	21	—	—
223970	2004 XR_{127}	15.4	X	90.02096	120.97353	243.42425	7.52110	0.1031897	0.18247232	3.0784922	21	—	—
223971	2004 XB_{129}	14.9	X	154.55950	337.26320	34.85914	10.30554	0.3055356	0.19500462	2.9451411	21	3 8.6	20.2
223972	2004 XF_{142}	15.0	X	298.46166	165.23393	61.83869	13.00741	0.0441074	0.19213581	2.9743850	21	2 3.6	19.4
223973	2004 XN_{165}	15.0	X	234.59529	275.51194	255.17875	8.29494	0.0408939	0.17504220	3.1650036	21	11 28.6	19.5
223974	2004 XF_{174}	16.0	X	6.43095	59.72208	10.14403	4.56800	0.1239412	0.17649623	3.1475968	21	—	—
223975	2004 XL_{179}	16.0	X	341.51074	279.62929	144.03910	1.73122	0.1731135	0.17410956	3.1762961	21	12 8.7	19.5
223976	2004 XS_{181}	15.0	X	69.94135	63.80017	341.51440	9.75201	0.0738745	0.18690817	3.0295900	21	—	—
223977	2004 YP_3	17.3	X	216.60627	278.97499	82.04192	23.15502	0.1163778	0.38393325	1.8748459	21	4 2.5	20.3
223978	2004 YA_{10}	15.9	X	311.79340	3.18822	73.38520	2.38424	0.0733724	0.17289333	3.1911745	21	11 9.1	20.1
223979	2004 YR_{14}	16.0	X	11.57557	99.27932	10.04975	1.11547	0.1601184	0.18075139	3.0980015	21	—	—
223980	2004 YM_{25}	14.6	X	343.82297	327.80933	122.64902	17.68112	0.1617656	0.17403914	3.1771527	21	—	—
223981	2004 YM_{32}	16.4	X	355.72732	165.38178	338.51257	18.14592	0.0681268	0.35961581	1.9584397	21	—	—
223982	2005 AC_1	14.9	X	3.42789	181.62113	295.33725	10.71507	0.1652439	0.17991006	3.1076522	21	—	—
223983	2005 AV_{15}	15.3	X	27.12381	335.90763	130.40784	6.78976	0.2341430	0.18354474	3.0664891	21	—	—
223984	2005 AE_{17}	14.7	X	32.52913	256.79546	119.16052	15.94507	0.2462938	0.17337740	3.1852320	21	—	—
223985	2005 AO_{34}	14.6	X	322.68440	214.41420	264.47114	16.78390	0.0597915	0.17746654	3.1361132	21	—	—
223986	2005 AZ_{39}	15.0	X	33.96533	342.84765	63.39201	17.78902	0.2389205	0.17861598	3.1226443	21	—	—
223987	2005 BE_1	16.5	X	186.51976	294.02772	3.90940	20.70165	0.0500321	0.35864774	1.9619623	21	—	—
223988	2005 BX_1	15.2	X	24.87302	259.45168	129.20251	9.85680	0.0674028	0.17413214	3.1760214	21	12 22.1	19.5
223989	2005 BS_{29}	15.4	X	353.93087	60.22611	50.65446	12.74779	0.1190873	0.17785801	3.1315097	21	—	—
223990	2005 CH_{24}	14.9	X	325.71148	153.85231	304.12597	9.45968	0.1726783	0.17690860	3.1427035	21	12 25.1	18.4
223991	2005 CT_{48}	15.2	X	338.15511	5.52226	139.88042	6.18709	0.1166798	0.17677561	3.1442795	21	—	—
223992	2005 EO_{31}	14.7	X	17.37548	84.52712	100.46941	4.27823	0.1282678	0.12661931	3.9276799	21	4 4.1	19.6
223993	2005 EC_{70}	17.4	X	34.22576	94.80056	23.42900	20.72162	0.0945683	0.36041756	1.9555342	21	—	—
223994	2005 EA_{89}	17.6	X	302.03778	81.59812	192.82644	6.67506	0.2030513	0.30560529	2.1828747	21	2 21.3	20.6
223995	2005 EM_{140}	15.2	X	68.48232	172.12946	301.83977	7.21988	0.2656049	0.18773683	3.0206685	21	3 30.4	18.9
223996	2005 ER_{224}	16.5	X	89.04489	287.43792	84.04525	24.01115	0.1108545	0.35029438	1.9930305	21	—	—
223997	2005 EQ_{265}	17.4	X	284.83429	72.23553	193.38868	3.89662	0.2281455	0.29989887	2.2104778	21	1 22.4	20.8
223998	2005 EN_{324}	17.5	X	339.33671	248.99982	20.16465	3.84111	0.1774757	0.30729063	2.1748860	21	4 17.5	19.0
223999	2005 FS_5	17.3	X	283.28269	161.76896	94.21889	2.99483	0.2016022	0.29779350	2.2208842	21	1 12.6	20.6
224000	2005 GX_8	16.3	X	273.61952	263.63186	32.69899	23.39665	0.2665142	0.30057986	2.2071379	21	3 3.4	20.3