Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
148001 1997 EX_{49}	16.4	X	46.47088	335.63960	185.71553	4.04160	0.1112113	0.28752355	2.2734589	21	3 22.5	18.4
148002 1997 GF_{2}	16.7	X	135.43611	357.81084	2.87331	2.48083	0.1830699	0.27855508	2.3219988	21	1 8.1	19.5
148003 1997 GN_{20}	16.7	X	48.19822	98.84928	31.84041	4.52007	0.0902603	0.28379864	2.2933087	21	2 9.2	18.9
148004 1997 GP_{22}	15.6	X	336.96420	214.16259	30.92139	25.78430	0.1931109	0.28446584	2.2897214	21	3 22.9	18.4
148005 1997 GF_{30}	15.7	X	150.77606	53.12317	168.30527	0.31474	0.1485503	0.18370276	3.0647303	21	10 29.1	20.7
148006 1997 HY_{11}	15.9	X	89.77251	301.81962	38.41824	5.57733	0.2150419	0.26556640	2.3971063	21	—	—
148007 1997 JL_{12}	16.1	X	181.35384	118.86426	63.47120	3.25650	0.1955358	0.26232074	2.4168385	21	10 16.4	19.9
148008 1997 JS_{17}	16.7	X	342.00557	66.52959	173.01539	3.35736	0.1738267	0.28398745	2.2922921	21	3 11.9	18.8
148009 1997 NW	14.7	X	99.08236	114.91614	123.38691	26.50037	0.2538714	0.17392839	3.1785013	21	10 20.3	20.4
148010 1997 SK_{31}	16.2	X	178.81010	105.75172	351.73754	2.91133	0.1767747	0.23753553	2.5821630	21	6 27.2	20.4
148011 1997 TE_{9}	16.1	X	67.28358	146.13855	223.68983	4.72378	0.0666532	0.21374272	2.7703958	21	—	—
148012 1997 TT_{18}	15.5	X	241.16161	10.72122	340.48885	13.18550	0.1746230	0.23587618	2.5942589	21	4 5.8	19.9
148013 1997 US_{20}	16.5	X	268.45304	84.41519	350.90138	4.64515	0.2079148	0.24217889	2.5490510	21	8 26.5	19.7
148014 1997 VX_{1}	15.4	X	59.80187	330.07127	52.88469	15.21558	0.1646749	0.21295997	2.7771802	21	—	—
148015 1997 WW_{5}	16.0	X	260.62329	249.59406	112.04854	1.84312	0.1683877	0.23448396	2.6045176	21	5 15.2	19.9
148016 1997 WR_{24}	16.7	X	212.92451	187.84412	228.09563	4.28710	0.0848593	0.23442469	2.6049565	21	6 10.0	20.5
148017 1997 WU_{30}	15.8	X	33.53473	0.12902	49.72541	9.51701	0.2820530	0.21192659	2.7862008	21	—	—
148018 1997 YQ_{15}	15.5	X	334.22336	294.35232	295.95717	7.97268	0.1491373	0.21888087	2.7268684	21	2 27.4	18.9
148019 1997 YW_{19}	14.6	X	27.83416	242.33495	259.35431	22.23575	0.3263769	0.21661963	2.7458122	21	1 19.1	16.8
148020 1998 AW_{3}	16.3	X	13.22809	93.31277	102.04773	3.70673	0.1354541	0.21964399	2.7205487	21	3 25.7	19.2
148021 1998 CT	16.5	X	135.01647	291.22477	94.57310	8.07769	0.2674933	0.21890089	2.7267021	21	3 2.7	20.9
148022 1998 CH_{4}	15.1	X	49.03710	25.74517	169.50944	5.26466	0.0734308	0.17870529	3.1216038	21	5 25.2	19.3
148023 1998 DY_{1}	15.3	X	341.44558	67.43526	121.23414	14.02222	0.0760306	0.21302130	2.7766472	21	1 29.9	18.8
148024 1998 DX_{18}	16.1	X	359.70092	171.41312	8.01543	2.64169	0.0586286	0.21362908	2.7713782	21	2 15.1	19.5
148025 1998 DT_{37}	16.0	X	194.87344	20.04839	317.68103	5.47792	0.0598396	0.21485955	2.7607872	21	2 12.2	20.1
148026 1998 DZ_{37}	15.3	X	79.20197	50.54228	161.89862	13.27361	0.2669487	0.18039495	3.1020810	21	8 22.4	20.0
148027 1998 EH_{9}	15.1	X	309.90604	121.88739	138.98601	32.83948	0.2580462	0.21103829	2.7940138	21	2 22.8	19.1
148028 1998 EY_{12}	14.7	X	343.46128	56.10794	3.44317	11.86881	0.0407003	0.19675625	2.9276356	21	12 4.5	18.8
148029 1998 FQ_{7}	16.2	X	209.95602	260.32649	38.79525	2.44138	0.0688840	0.20893816	2.8127052	21	1 14.7	20.5
148030 1998 FF_{13}	14.9	X	56.29053	237.83816	342.25756	11.26405	0.2173670	0.22214045	2.7001276	21	8 1.6	18.3
148031 1998 FG_{101}	14.9	X	42.85123	36.12419	195.27436	26.04946	0.2211441	0.17756410	3.1349644	21	7 17.2	19.2
148032 1998 FQ_{142}	15.6	X	32.97375	196.81937	308.97513	3.35763	0.1434865	0.21171221	2.7880814	21	2 19.9	18.5
148033 1998 MF_{41}	16.4	X	309.21405	8.83279	292.77532	8.36523	0.2024363	0.29514145	2.2341684	21	4 7.9	19.2
148034 1998 QQ_{25}	16.6	X	94.31932	338.24910	20.62066	2.00662	0.2686730	0.27180867	2.3602636	21	—	—
148035 1998 QY_{44}	15.9	X	227.01276	152.58637	218.01838	4.25507	0.2087783	0.24524911	2.5277324	21	4 19.7	20.0
148036 1998 RE_{42}	16.2	X	132.50754	17.38030	330.74917	7.30369	0.1311811	0.27467966	2.3437883	21	—	—
148037 1998 RG_{43}	16.3	X	76.81495	55.06518	267.55674	1.64758	0.1972727	0.26615195	2.3935892	21	—	—
148038 1998 RV_{46}	16.4	X	151.51019	32.89031	306.25042	4.28652	0.2314126	0.27632143	2.3344953	21	1 5.2	19.8
148039 1998 RL_{52}	16.3	X	135.43260	299.96936	49.60359	4.43592	0.2514334	0.27528136	2.3403717	21	1 3.9	19.4
148040 1998 RH_{53}	17.3	X	15.13706	35.52665	351.27582	1.94804	0.1990314	0.26368609	2.4084885	21	—	—
148041 1998 RN_{59}	16.8	X	117.21098	99.10826	241.78893	2.12972	0.2195525	0.27204858	2.3588758	21	—	—
148042 1998 RP_{79}	14.7	X	43.27695	173.47484	21.36177	15.41246	0.0446069	0.24419621	2.5349931	21	5 2.9	17.9
148043 1998 SF_{25}	16.2	X	23.21693	322.51720	68.24563	5.71714	0.1930890	0.26372600	2.4082455	21	—	—
148044 1998 SL_{34}	16.0	X	219.48914	343.67437	20.07384	14.45525	0.2013535	0.24314969	2.5422616	21	4 6.2	20.1
148045 1998 SX_{64}	16.4	X	97.43896	295.65970	76.99836	4.07806	0.1969047	0.27094385	2.3652834	21	—	—
148046 1998 SF_{70}	15.6	X	116.95134	247.95782	143.55092	12.48432	0.1887623	0.27632563	2.3344716	21	1 25.2	18.4
148047 1998 SN_{72}	16.1	X	25.48047	339.08142	44.80108	3.96605	0.1936402	0.26331021	2.4107800	21	—	—
148048 1998 ST_{87}	16.2	X	43.79970	179.08022	208.53309	6.05154	0.1176570	0.26688915	2.3891795	21	—	—
148049 1998 SU_{91}	16.2	X	352.44654	322.82342	329.77692	4.17996	0.1981860	0.29555155	2.2321012	21	7 2.1	17.4
148050 1998 SG_{103}	16.6	X	17.22091	257.90426	167.95452	5.79782	0.2037334	0.26665234	2.3905938	21	—	—
148051 1998 SF_{118}	16.3	X	237.14402	151.84555	209.48161	5.60890	0.1259559	0.24379662	2.5377622	21	4 22.8	20.1
148052 1998 SU_{119}	15.6	X	191.61306	10.74144	21.28495	14.95348	0.2176330	0.24129601	2.5552651	21	4 16.3	19.8
148053 1998 SU_{130}	16.5	X	169.91795	79.83129	249.87873	1.59992	0.1910836	0.27625781	2.3348537	21	1 7.0	19.8
148054 1998 SB_{137}	16.7	X	109.60559	247.05230	98.86413	4.50438	0.2478866	0.27110316	2.3643567	21	—	—
148055 1998 SF_{139}	16.3	X	168.69394	44.42561	279.00125	2.87444	0.2435257	0.27583886	2.3372173	21	1 3.1	19.9
148056 1998 SF_{152}	16.8	X	81.52367	350.33519	26.89559	1.56940	0.1979673	0.27027205	2.3692013	21	—	—
148057 1998 ST_{154}	16.6	X	156.45645	359.98340	334.26272	3.72186	0.2335136	0.27571511	2.3379166	21	1 4.5	20.1
148058 1998 SX_{167}	16.9	X	16.69955	304.62113	66.58449	3.08632	0.2515386	0.26190255	2.4194105	21	—	—
148059 1998 SN_{168}	16.7	X	182.50513	266.40308	63.12316	3.60416	0.2506619	0.28020661	2.3128660	21	1 22.9	20.5
148060 1998 TO_{11}	15.2	X	342.57523	328.16744	19.30042	2.34626	0.2847283	0.12426495	3.9771345	21	8 19.4	19.1
148061 1998 TB_{28}	17.4	X	19.82590	68.20623	17.12789	2.53328	0.1513638	0.26990247	2.3713635	21	—	—
148062 1998 UB_{5}	16.9	X	11.39319	328.70099	90.46232	2.87228	0.1455979	0.26449465	2.4035774	21	—	—
148063 1998 UA_{20}	16.6	X	40.82300	336.67714	55.07121	1.56447	0.1829555	0.26499605	2.4005446	21	—	—
148064 1998 UW_{24}	16.7	X	122.96328	164.10428	193.13978	1.62685	0.2735800	0.27277096	2.3547093	21	1 1.9	19.5
148065 1998 UH_{29}	16.1	X	65.36126	231.90375	132.87666	5.64621	0.2248410	0.26574541	2.3960297	21	—	—
148066 1998 VL_{17}	16.2	X	58.03825	327.64318	45.20258	3.32500	0.1922299	0.26563312	2.3967049	21	—	—
148067 1998 VN_{20}	15.9	X	172.75058	5.09078	56.50392	5.17086	0.1287296	0.24026770	2.5625506	21	5 5.5	19.9
148068 1998 VE_{21}	16.5	X	38.42033	332.80614	34.39477	4.56165	0.2192059	0.26287662	2.4134302	21	—	—
148069 1998 VP_{43}	16.4	X	193.90058	184.41551	56.72286	6.18731	0.0747811	0.26429306	2.4047995	21	—	—
148070 1998 VY_{49}	16.6	X	147.70533	32.51990	39.20792	4.38838	0.2534720	0.23744055	2.5828516	21	5 1.9	20.9
148071 1998 VU_{56}	16.3	X	77.64951	251.28896	123.55290	3.19767	0.2240124	0.26759883	2.3849535	21	—	—
148072 1998 WR_{16}	16.0	X	228.58989	315.70491	62.58065	3.29214	0.1758930	0.24224330	2.5485991	21	5 3.3	20.1
148073 1998 WU_{29}	15.7	X	205.18581	13.99237	103.29001	23.22643	0.0893046	0.24399477	2.5363881	21	8 27.2	19.8
148074 1998 WR_{32}	16.7	X	25.87621	339.50827	67.06492	4.32051	0.1651480	0.26368492	2.4084956	21	—	—
148075 1998 WB_{37}	16.7	X	355.30143	21.12745	50.07434	2.97756	0.1488087	0.26275010	2.4142049	21	—	—
148076 1998 XJ_{1}	16.9	X	341.46477	309.67132	127.46143	1.57793	0.1817195	0.26093407	2.4253934	21	—	—
148077 1998 XJ_{10}	16.5	X	101.02369	254.54515	78.60541	4.68517	0.2656863	0.26709073	2.3879772	21	—	—
148078 1998 XS_{10}	15.6	X	176.37496	305.63470	121.43566	5.08626	0.2247831	0.23599070	2.5934196	21	5 19.8	20.0
148079 1999 AZ_{13}	16.3	X	251.66452	10.96380	82.53482	1.00638	0.0672607	0.24717822	2.5145634	21	9 19.9	19.6
148080 1999 AQ_{17}	15.6	X	238.25216	112.76256	132.33228	11.33148	0.1113809	0.21729337	2.7401336	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
148081 Sunjiadong	15.7	X	283.30653	5.79418	110.06032	9.67531	0.1302527	0.25175041	2.4840248	21	11 29.3	18.5
148082 1999 BH_{15}	15.4	X	57.87966	267.65701	303.30011	12.69384	0.1351264	0.23382479	2.6094102	21	7 6.6	18.5
148083 1999 CZ_{11}	16.2	X	236.35818	117.93071	313.08665	18.85021	0.1069170	0.37273457	1.9122130	21	7 30.5	18.1
148084 1999 CN_{24}	15.8	X	139.47841	59.47006	9.97583	5.79660	0.2076237	0.23166787	2.6255815	21	4 17.7	19.8
148085 1999 CW_{46}	16.1	X	161.60472	48.63495	131.15445	7.28137	0.2191865	0.24232288	2.5480411	21	9 26.3	20.5
148086 1999 CC_{92}	16.0	X	163.18591	124.66364	14.49119	4.62790	0.1572338	0.23968914	2.5666726	21	8 6.3	20.1
148087 1999 CS_{94}	15.9	X	194.05516	21.02152	59.44622	5.62108	0.1882824	0.23843022	2.5756994	21	6 18.7	20.1
148088 1999 CE_{100}	16.0	X	205.99258	335.44267	140.31930	12.91555	0.2105371	0.24183310	2.5514803	21	8 12.4	20.3
148089 1999 CB_{114}	15.4	X	27.08003	357.51630	305.59895	11.42599	0.0928019	0.24129748	2.5552546	21	9 13.9	18.6
148090 1999 CQ_{120}	15.9	X	185.06027	156.96043	356.45238	17.79127	0.1447954	0.24511214	2.5286740	21	9 14.5	19.7
148091 1999 CC_{153}	16.0	X	41.73630	303.46924	340.63380	2.91213	0.1127675	0.24146255	2.5540900	21	9 18.7	19.0
148092 1999 FW_{13}	16.4	X	217.40333	49.65636	3.09590	3.73079	0.0793493	0.23376812	2.6098319	21	6 10.7	20.2
148093 1999 FZ_{33}	15.3	X	84.22945	131.42606	79.41697	3.23497	0.3047933	0.18728351	3.0255408	21	9 1.8	20.1
148094 1999 GP_{6}	16.7	X	31.29027	66.59444	123.98627	24.31977	0.0421557	0.35876311	1.9615416	21	4 7.7	19.2
148095 1999 JF_{10}	15.5	X	102.91652	125.67066	87.42138	11.86901	0.1375657	0.23379416	2.6096380	21	9 12.4	19.5
148096 1999 JF_{90}	16.0	X	110.47891	21.24574	172.73192	13.82719	0.1950888	0.23331393	2.6132177	21	8 24.8	20.1
148097 1999 JM_{138}	15.1	X	358.08324	88.74639	181.81518	15.64020	0.1479411	0.18147190	3.0897959	21	6 14.5	19.0
148098 1999 KR	15.3	X	315.59334	27.29376	174.95367	8.69022	0.0754351	0.21438736	2.7648395	21	1 11.1	19.2
148099 1999 LN_{3}	17.2	X	247.47847	164.60532	107.70392	6.91341	0.1898110	0.29805682	2.2195759	21	1 1.5	20.7
148100 1999 NM_{10}	15.3	X	77.91370	181.61184	127.80146	7.75012	0.2407082	0.18920638	3.0050073	21	12 13.9	20.1
148101 1999 RD_{33}	14.9	X	106.03897	357.13758	325.87306	9.91088	0.0672880	0.19225812	2.9731233	21	—	—
148102 1999 RW_{47}	14.5	X	287.21262	248.28670	131.24890	25.92324	0.2560994	0.17580461	3.1558466	21	6 30.1	19.2
148103 1999 RO_{57}	16.4	X	302.58700	337.42366	16.90053	3.10018	0.2218409	0.31029884	2.1608069	21	6 17.7	18.3
148104 1999 RX_{68}	15.4	X	34.54258	194.47652	124.95560	5.72758	0.2749898	0.18364257	3.0653999	21	11 13.2	19.3
148105 1999 RU_{102}	14.7	X	316.69821	149.01459	238.39557	9.60307	0.1075811	0.17922499	3.1155664	21	9 7.5	18.8
148106 1999 RV_{102}	14.8	X	25.08508	57.37177	279.22598	7.70977	0.2538367	0.18327137	3.0695376	21	11 13.7	18.5
148107 1999 RR_{144}	14.6	X	330.16550	167.52872	217.81141	9.14632	0.0964210	0.18119548	3.0929374	21	9 29.8	18.5
148108 1999 RJ_{164}	14.6	X	275.03099	198.78166	174.86721	7.38390	0.1658828	0.17239325	3.1973429	21	6 18.5	19.3
148109 1999 RC_{167}	16.7	X	289.87593	338.09253	43.45107	5.06733	0.1887491	0.31047773	2.1599767	21	7 17.3	18.8
148110 1999 RQ_{200}	14.6	X	280.25768	80.26467	338.86198	26.01714	0.0908469	0.17632481	3.1496365	21	9 2.0	19.0
148111 1999 RF_{209}	16.3	X	158.22476	83.92030	250.34162	4.52752	0.1902625	0.28841004	2.2687979	21	—	—
148112 1999 RA_{216}	7.1	X	88.55758	94.33384	192.06953	0.79335	0.0424000	0.00335553	44.1870387	21	10 13.6	23.5
148113 1999 RW_{252}	15.0	X	134.86868	340.17958	323.38053	9.44440	0.0846799	0.19143423	2.9816476	21	—	—
148114 1999 SM_{12}	14.6	X	357.32097	209.44029	153.08217	18.30663	0.2449374	0.17932350	3.1144253	21	10 31.2	18.0
148115 1999 TA_{25}	17.1	X	195.20912	44.46410	353.90689	3.41428	0.1748285	0.29941004	2.2128831	21	4 23.0	20.6
148116 1999 TD_{30}	16.4	X	239.30573	81.31543	337.31583	1.65720	0.1487588	0.30657207	2.1782831	21	7 7.7	19.2
148117 1999 TX_{52}	15.4	X	53.20936	165.81363	149.88464	2.98469	0.1953655	0.18675676	3.0312272	21	11 20.3	19.7
148118 1999 TQ_{65}	15.9	X	109.60492	203.05925	0.22751	1.47346	0.0354385	0.17512243	3.1640368	21	8 17.3	20.3
148119 1999 TV_{81}	17.9	X	280.11217	336.55667	31.53982	1.93317	0.1512783	0.30689641	2.1767481	21	6 16.4	20.2
148120 1999 TK_{85}	16.1	X	196.80632	199.96356	206.94611	4.85704	0.1823694	0.29797764	2.2199691	21	5 7.5	19.4
148121 1999 TL_{100}	16.9	X	214.64007	260.08278	102.83703	5.08224	0.1781273	0.29846723	2.2175408	21	3 29.8	20.3
148122 1999 TC_{140}	17.0	X	165.49961	19.99971	19.69980	3.27396	0.1028710	0.29428862	2.2384827	21	3 23.5	20.0
148123 1999 TF_{161}	17.2	X	330.88587	347.03271	331.50066	3.09409	0.1562468	0.30841927	2.1695769	21	6 28.2	18.7
148124 1999 TK_{165}	14.9	X	36.32252	342.07374	339.43786	9.52205	0.0972687	0.18050366	3.1008353	21	10 16.6	19.1
148125 1999 TV_{166}	15.2	X	226.57489	93.59816	335.62198	7.27256	0.1888575	0.16900615	3.2399207	21	7 5.3	20.5
148126 1999 TM_{185}	16.9	X	142.10605	99.83631	313.30976	5.61039	0.1511118	0.29305888	2.2447404	21	3 16.9	20.1
148127 1999 TM_{186}	14.6	X	93.35955	333.89810	323.16077	8.98965	0.0721714	0.18321244	3.0701958	21	11 23.9	19.2
148128 1999 TM_{191}	16.5	X	169.67840	89.16019	319.08874	5.86715	0.1529483	0.29549560	2.2323830	21	4 8.7	19.8
148129 1999 TK_{192}	16.9	X	266.93865	34.97703	314.86970	6.15224	0.1009615	0.30159035	2.2022051	21	5 7.8	19.7
148130 1999 TB_{203}	14.7	X	231.28924	214.32946	0.51501	12.99946	0.1361385	0.19141096	2.9818893	21	—	—
148131 1999 TO_{250}	14.6	X	129.92706	282.52872	338.59878	10.96212	0.0315450	0.18421623	3.0590327	21	11 16.9	19.2
148132 1999 TW_{256}	14.9	X	8.58353	283.54782	35.76644	5.68678	0.1487324	0.17718976	3.1393782	21	9 12.3	18.6
148133 1999 TO_{258}	15.3	X	351.65520	9.06388	3.41879	4.96628	0.1075598	0.17995011	3.1071912	21	10 18.4	19.1
148134 1999 TQ_{270}	16.5	X	182.41317	86.70380	324.43548	6.21751	0.1043428	0.29836627	2.2180410	21	4 23.4	19.7
148135 1999 TY_{272}	16.4	X	279.69735	10.00018	356.96875	7.11952	0.1672808	0.30532962	2.1841884	21	6 10.6	19.1
148136 1999 TX_{287}	16.8	X	292.76463	176.46287	185.28200	3.16069	0.0472028	0.30604384	2.1807888	21	7 14.5	19.2
148137 1999 TP_{311}	15.6	X	25.43042	234.40466	127.81210	1.70010	0.1930504	0.18386828	3.0628907	21	12 9.3	19.4
148138 1999 TW_{312}	14.2	X	66.02869	342.14362	323.33335	22.69600	0.1163960	0.18101026	3.0950471	21	10 30.8	19.1
148139 1999 VT_{55}	17.2	X	195.32869	297.42617	92.58307	0.83246	0.1357543	0.29690144	2.2253305	21	4 13.2	20.5
148140 1999 VH_{106}	14.9	X	16.62133	66.67180	241.26905	9.19219	0.0271809	0.17033991	3.2229862	21	8 24.3	19.5
148141 1999 VC_{113}	16.8	X	114.05873	120.11073	56.27480	6.04169	0.0868690	0.30067204	2.2066868	21	7 30.9	19.6
148142 1999 VY_{134}	15.4	X	1.84843	281.45318	36.53146	1.74408	0.1728143	0.17325781	3.1866974	21	8 28.1	18.8
148143 1999 VN_{142}	17.6	X	193.87972	236.74245	175.60862	2.15006	0.1658114	0.29766499	2.2215233	21	5 12.0	21.0
148144 1999 VS_{146}	17.8	X	336.08065	282.26416	159.40266	1.36528	0.1579751	0.27310878	2.3527671	21	—	—
148145 1999 VW_{165}	17.1	X	130.94565	6.88658	29.30769	4.09078	0.0916330	0.28802590	2.2708146	21	2 4.4	19.9
148146 1999 VB_{169}	16.7	X	73.77907	20.60709	52.34277	6.62215	0.1387882	0.28381366	2.2932277	21	1 2.3	18.7
148147 1999 XZ_{28}	17.2	X	12.48138	339.88626	81.59874	8.06533	0.1721712	0.27512183	2.3412764	21	—	—
148148 1999 XE_{50}	16.8	X	120.84567	345.94406	69.79950	7.17533	0.1631842	0.28838152	2.2689474	21	3 3.1	19.6
148149 1999 XU_{52}	16.4	X	78.35095	30.25847	63.08526	6.96903	0.1261344	0.28640315	2.2793842	21	2 11.7	18.6
148150 1999 XK_{79}	17.1	X	51.21612	317.54959	78.00345	2.99884	0.2052567	0.27721255	2.3294897	21	—	—
148151 1999 XE_{119}	16.9	X	12.82853	350.59379	24.49706	5.13998	0.2128045	0.27182369	2.3601767	21	—	—
148152 1999 XC_{131}	16.4	X	36.26197	197.61665	322.41421	7.85889	0.0525581	0.28880428	2.2667327	21	2 26.8	18.7
148153 1999 XZ_{131}	16.4	X	44.00491	78.76577	36.21702	5.94523	0.2041476	0.28248026	2.3004386	21	1 4.8	18.0
148154 1999 XA_{134}	15.7	X	30.67493	124.39567	328.18864	7.94176	0.1283535	0.27761636	2.3272302	21	—	—
148155 1999 XL_{135}	16.5	X	171.99776	263.70748	104.01726	7.24318	0.1698313	0.28915983	2.2648741	21	2 24.8	19.9
148156 1999 XP_{141}	15.0	X	164.99144	141.87820	298.75308	24.77398	0.2436473	0.29309178	2.2445724	21	5 22.4	19.3
148157 1999 XV_{142}	15.3	X	352.48059	234.17464	288.09385	23.34947	0.2006545	0.28030899	2.3123028	21	—	—
148158 1999 XB_{153}	16.3	X	204.22287	153.37706	226.45765	4.46644	0.1784362	0.29500205	2.2348722	21	4 7.6	19.7
148159 1999 XC_{153}	16.9	X	143.58917	147.08573	235.27859	4.73333	0.2056442	0.28735508	2.2743474	21	2 13.7	20.2
148160 1999 XQ_{160}	16.3	X	138.56358	197.07784	242.02727	4.29243	0.1110160	0.29041076	2.2583656	21	4 13.7	19.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
148161 1999 XH_{172}	17.1	X	87.98109	55.46900	358.04429	2.46920	0.2361206	0.28210986	2.3024518	21	1 16.1	18.8
148162 1999 XC_{186}	16.5	X	155.07333	57.90083	346.80586	6.88309	0.0956175	0.29062257	2.2572681	21	3 16.3	19.6
148163 1999 XV_{194}	15.6	X	192.13112	335.88626	25.18892	6.11515	0.1963407	0.29014710	2.2597335	21	3 8.1	19.1
148164 1999 XW_{194}	16.5	X	83.10878	117.41432	329.08094	6.04842	0.1349510	0.28461789	2.2889058	21	2 8.9	18.5
148165 1999 XK_{228}	16.8	X	127.49055	352.45308	89.85043	6.00952	0.1157707	0.28864216	2.2675813	21	4 9.7	19.7
148166 1999 XN_{229}	16.9	X	187.20596	18.21902	22.42725	5.69741	0.1888213	0.29618197	2.2289328	21	4 19.8	20.3
148167 1999 XU_{251}	15.1	X	8.37801	149.34595	160.54679	2.21554	0.1729055	0.17151998	3.2081863	21	8 28.5	18.6
148168 1999 XH_{252}	16.5	X	165.71898	120.80478	273.33242	3.41076	0.1840864	0.28931055	2.2640875	21	3 21.1	19.9
148169 1999 XQ_{257}	16.4	X	103.30934	236.39058	254.93690	6.82489	0.0565222	0.29325704	2.2437291	21	5 1.7	19.0
148170 1999 YE_{1}	15.0	X	75.41858	124.83920	292.49648	23.52713	0.1821095	0.28267494	2.2993823	21	—	—
148171 1999 YC_{3}	15.6	X	137.50349	72.87867	336.28581	21.28408	0.2641294	0.28850678	2.2682906	21	3 15.9	19.2
148172 1999 YZ_{25}	16.1	X	228.24671	224.69576	186.72563	4.57978	0.0459756	0.29690644	2.2253055	21	6 24.4	19.0
148173 2000 AT	16.0	X	119.57698	7.26514	276.77494	1.74980	0.1812660	0.26353474	2.4094105	21	12 25.6	19.8
148174 2000 AC_{36}	16.4	X	46.23088	144.81913	285.20088	6.61818	0.0894460	0.27750234	2.3278676	21	—	—
148175 2000 AE_{36}	16.4	X	180.22065	273.96194	98.02307	5.78801	0.1614154	0.28880866	2.2667097	21	3 9.9	19.8
148176 2000 AL_{46}	17.0	X	38.59563	333.57228	108.99561	2.05927	0.1596359	0.27818185	2.3240753	21	—	—
148177 2000 AR_{62}	16.6	X	86.61480	164.20797	328.20829	4.78494	0.1505449	0.28723315	2.2749910	21	4 23.6	19.1
148178 2000 AO_{73}	16.3	X	164.34534	241.39309	136.62765	4.16280	0.1808224	0.28919148	2.2647089	21	3 1.5	19.5
148179 2000 AY_{79}	16.8	X	74.64857	147.58405	265.21186	3.77955	0.2081246	0.28020470	2.3128765	21	—	—
148180 2000 AD_{114}	16.8	X	86.31741	309.75416	139.97592	7.48574	0.1790910	0.28446283	2.2897375	21	2 27.2	18.8
148181 2000 AQ_{122}	16.4	X	142.03677	164.20345	255.22947	6.89287	0.0656097	0.28726927	2.2748003	21	3 13.6	19.4
148182 2000 AF_{161}	15.9	X	11.73398	112.93776	354.33829	5.79794	0.1777157	0.27584624	2.3371755	21	—	—
148183 2000 AG_{208}	15.2	X	340.63859	260.11320	89.23798	5.72641	0.1726668	0.17237612	3.1975547	21	8 31.2	18.8
148184 2000 AH_{212}	16.5	X	103.86721	43.72973	320.91420	6.69557	0.1288042	0.27216579	2.3581985	21	—	—
148185 2000 AT_{223}	17.1	X	126.85414	260.82535	133.67367	1.13843	0.2313838	0.28342450	2.2953264	21	2 16.9	19.9
148186 2000 BG	17.3	X	273.10126	353.58398	85.62147	2.46594	0.1439401	0.26063584	2.4272432	21	9 20.5	20.1
148187 2000 BP_{18}	16.4	X	318.04088	178.88097	331.69939	2.47420	0.1203078	0.27332332	2.3515358	21	—	—
148188 2000 BF_{20}	16.6	X	174.35029	74.88623	309.60254	6.85948	0.1227198	0.28614341	2.2807633	21	3 12.2	19.9
148189 2000 BE_{22}	16.8	X	258.63438	175.38078	314.37486	1.51704	0.1483657	0.26279881	2.4139065	21	11 6.4	19.6
148190 2000 BT_{23}	16.1	X	140.70793	343.95674	56.65687	5.16291	0.1701877	0.28596876	2.2816918	21	3 7.2	19.2
148191 2000 BK_{24}	16.5	X	105.56003	45.82789	52.18724	8.05367	0.0609739	0.28562434	2.2835257	21	3 25.1	19.2
148192 2000 BQ_{34}	15.7	X	113.95837	60.48864	351.89090	7.43734	0.1437113	0.28166427	2.3048794	21	2 13.0	18.4
148193 2000 BQ_{45}	17.5	X	283.64109	240.68325	340.13172	1.17366	0.1369481	0.27470507	2.3436438	21	—	—
148194 2000 BD_{46}	16.5	X	128.54109	227.45347	137.79713	6.13503	0.0761046	0.27649490	2.3335187	21	—	—
148195 2000 CG_{7}	16.7	X	355.85067	64.16261	120.39111	5.07542	0.0641012	0.28150098	2.3057706	21	1 31.3	19.2
148196 2000 CR_{37}	16.8	X	14.72854	321.92855	126.23766	6.57334	0.1964831	0.27448654	2.3448875	21	—	—
148197 2000 CQ_{38}	16.3	X	277.61028	118.35839	121.55952	5.54240	0.1768112	0.27713374	2.3299313	21	—	—
148198 2000 CR_{38}	16.6	X	82.81669	133.99985	316.74012	6.03828	0.1233335	0.28269163	2.2992918	21	2 12.5	18.9
148199 2000 CE_{40}	16.4	X	311.38239	315.55388	266.08048	5.23143	0.2662746	0.27734373	2.3287551	21	—	—
148200 2000 CH_{69}	16.7	X	16.20767	140.17498	316.46160	2.46691	0.1386571	0.27444672	2.3451143	21	—	—
148201 2000 CD_{80}	16.5	X	148.40083	23.63197	341.86323	4.24990	0.1268455	0.27673605	2.3321630	21	1 23.2	19.6
148202 2000 CN_{80}	15.7	X	83.33936	239.47500	141.41679	26.00070	0.2432492	0.27457001	2.3444123	21	—	—
148203 2000 CW_{88}	15.7	X	70.60022	63.78978	122.50824	8.16765	0.2207595	0.24181709	2.5515929	21	7 4.0	18.9
148204 2000 CN_{90}	16.6	X	29.98210	154.05852	322.86177	1.87704	0.1497172	0.27764522	2.3270689	21	—	—
148205 2000 CZ_{93}	16.6	X	8.42855	317.10159	147.04204	5.14437	0.1828440	0.27357367	2.3501009	21	—	—
148206 2000 CL_{97}	16.5	X	123.47555	93.46615	340.56161	5.80957	0.1410273	0.28455140	2.2892623	21	3 23.4	19.4
148207 2000 CM_{100}	16.8	X	297.96825	89.92989	131.70854	3.22595	0.1221678	0.27723070	2.3293880	21	—	—
148208 2000 CD_{101}	16.7	X	77.19280	158.43467	313.33232	3.84192	0.0682825	0.28443599	2.2898816	21	2 25.6	19.0
148209 2000 CR_{105}	6.3	X	6.43589	316.17616	128.37546	22.82296	0.7959352	0.00031151	215.5180502	21	2 27.2	24.3
148210 2000 CR_{111}	16.9	X	40.04667	64.54653	35.17438	2.82331	0.1822835	0.27742410	2.3283053	21	—	—
148211 2000 CO_{116}	15.6	X	185.52360	99.19215	120.40796	11.63492	0.2091669	0.26054827	2.4277870	21	12 4.7	19.6
148212 2000 CR_{140}	16.7	X	1.59974	83.06424	133.01006	2.77194	0.0839853	0.28650606	2.2788383	21	3 25.2	19.0
148213 2000 DU_{2}	17.3	X	76.71930	290.29532	151.58366	2.94939	0.1656093	0.28071469	2.3100743	21	1 25.2	19.3
148214 2000 DA_{21}	16.5	X	32.00856	115.32228	326.06690	3.68670	0.1290097	0.27428327	2.3460459	21	—	—
148215 2000 DE_{28}	16.3	X	344.54272	54.27741	145.44731	2.48353	0.0667133	0.23431087	2.6058001	21	2 13.9	19.6
148216 2000 DM_{30}	16.0	X	287.09432	315.88115	319.27999	6.24052	0.2083145	0.28038294	2.3118962	21	2 11.1	19.4
148217 2000 DB_{33}	17.5	X	323.20114	15.52977	167.76214	5.02508	0.1743997	0.27479526	2.3431309	21	—	—
148218 2000 DM_{37}	16.1	X	319.41767	83.71607	134.20837	3.55965	0.1257451	0.23212709	2.6221176	21	1 25.6	19.7
148219 2000 DP_{41}	16.5	X	299.43587	347.69779	150.99280	5.63736	0.1726376	0.26791500	2.3830767	21	—	—
148220 2000 DB_{47}	17.2	X	308.56301	262.28511	305.09051	1.57510	0.1633305	0.27480369	2.3430830	21	—	—
148221 2000 DO_{51}	16.5	X	82.70422	31.31017	144.42750	4.68715	0.2049222	0.24300046	2.5433023	21	7 3.3	19.9
148222 2000 DP_{53}	16.4	X	4.10232	145.72597	328.12495	8.39593	0.0491667	0.27208589	2.3586602	21	—	—
148223 2000 DQ_{60}	16.7	X	15.61492	106.45287	58.06285	1.31515	0.1535259	0.27932495	2.3177303	21	1 25.4	18.8
148224 2000 DV_{61}	16.3	X	306.55609	241.32566	355.79764	4.32013	0.0917083	0.27827339	2.3235655	21	1 31.3	19.2
148225 2000 DB_{78}	16.3	X	4.18436	98.70822	342.39555	6.71331	0.1037801	0.26815875	2.3816324	21	—	—
148226 2000 DO_{84}	16.5	X	17.64685	199.28654	321.49996	5.30066	0.0982372	0.28097033	2.3086729	21	1 29.1	18.6
148227 2000 DP_{99}	14.0	X	269.33474	80.07638	69.41528	6.08230	0.1598807	0.12623189	3.9357121	21	11 20.8	19.5
148228 2000 DP_{101}	16.3	X	49.12459	92.39372	20.39765	7.26840	0.0992696	0.27839640	2.3228810	21	1 16.9	18.6
148229 2000 DN_{102}	16.6	X	271.50948	71.44210	75.99673	4.54612	0.0876135	0.26442396	2.4040058	21	12 30.9	19.3
148230 2000 DF_{106}	16.6	X	6.21502	95.97914	81.10569	4.73795	0.1849182	0.27891825	2.3199828	21	1 22.2	18.7
148231 2000 DG_{108}	16.5	X	257.79810	101.18919	82.02625	3.04426	0.1555767	0.26678506	2.3898008	21	—	—
148232 2000 DU_{109}	17.0	X	283.40841	56.51353	155.90841	2.88117	0.1507229	0.27188966	2.3597949	21	—	—
148233 2000 DV_{109}	16.6	X	256.87505	268.00317	348.46956	4.59112	0.1969238	0.27264163	2.3554538	21	—	—
148234 2000 EW_{5}	14.7	X	277.90465	331.71488	170.08614	2.90042	0.1523999	0.12433915	3.9755522	21	11 23.3	20.0
148235 2000 EC_{6}	17.1	X	306.56711	134.67447	14.87302	1.71289	0.1362882	0.26783866	2.3835295	21	—	—
148236 2000 EC_{9}	16.5	X	357.55114	78.32864	358.53253	1.80494	0.0974029	0.26796129	2.3828023	21	—	—
148237 2000 EX_{9}	17.2	X	266.16275	43.48005	170.64795	0.38997	0.1603789	0.26962088	2.3730144	21	—	—
148238 2000 EA_{19}	16.2	X	357.28742	67.07025	3.81656	7.35614	0.1110908	0.26685229	2.3893995	21	—	—
148239 2000 EH_{28}	15.9	X	344.68912	121.29653	112.26418	12.24546	0.2277109	0.23557036	2.5965037	21	3 15.0	18.8
148240 2000 EA_{41}	15.9	X	8.04275	194.57493	5.02607	5.26406	0.1728767	0.27998406	2.3140914	21	3 3.9	17.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
148241 2000 EP_{42}	16.6	X	316.51507	356.53023	151.63473	3.37924	0.1569364	0.26904531	2.3763976	21	—	—
148242 2000 EN_{58}	16.6	X	263.05269	189.64437	359.80907	5.04741	0.1054180	0.26604993	2.3942010	21	—	—
148243 2000 EX_{58}	16.6	X	349.71017	30.48793	169.22500	9.74691	0.1691326	0.23399551	2.6081408	21	2 6.4	19.5
148244 2000 EW_{63}	16.8	X	347.11201	107.55082	22.05681	3.67867	0.1449920	0.27109683	2.3643935	21	—	—
148245 2000 EG_{70}	16.6	X	279.16977	64.12439	93.07570	2.13615	0.1218722	0.26487745	2.4012611	21	—	—
148246 2000 EK_{109}	15.6	X	319.05910	212.87236	322.53911	13.13192	0.1098078	0.22730606	2.6590635	21	—	—
148247 2000 EA_{124}	16.6	X	273.22881	87.84608	125.50735	3.58991	0.1467413	0.27049168	2.3679186	21	—	—
148248 2000 EJ_{124}	14.8	X	247.11758	255.68371	132.78876	3.49470	0.0881208	0.24579574	2.5239833	21	6 13.1	18.4
148249 2000 EO_{125}	16.7	X	298.16246	167.96884	45.55620	3.12300	0.1521590	0.27348520	2.3506077	21	—	—
148250 2000 EC_{127}	16.4	X	226.22149	95.43230	143.65508	7.39178	0.0848850	0.26750467	2.3855131	21	—	—
148251 2000 EA_{145}	16.4	X	184.21960	267.16457	338.87812	6.54163	0.1697639	0.26099653	2.4250064	21	—	—
148252 2000 ER_{162}	16.2	X	51.93516	121.77715	336.71710	6.75172	0.0621394	0.27574567	2.3377438	21	—	—
148253 2000 EC_{178}	16.2	X	166.42493	311.85833	346.23552	3.79956	0.1124534	0.27062588	2.3671357	21	—	—
148254 2000 EL_{198}	16.6	X	318.97369	308.19446	248.78514	4.05772	0.1731250	0.27414370	2.3468421	21	—	—
148255 2000 EF_{201}	16.9	X	283.53844	133.29620	69.31925	3.16754	0.1370543	0.26991211	2.3713071	21	—	—
148256 2000 FL_{16}	15.8	X	146.69538	340.49435	148.34313	8.38134	0.1279913	0.24529383	2.5274252	21	7 4.3	19.8
148257 2000 FS_{17}	16.1	X	283.13641	88.64886	151.32017	11.99964	0.2497983	0.22621704	2.6675905	21	—	—
148258 2000 FQ_{20}	16.5	X	233.77496	99.69063	123.62931	5.46944	0.1852641	0.26518773	2.3993877	21	—	—
148259 2000 FB_{22}	16.0	X	228.99515	172.09690	72.95915	6.32036	0.1932753	0.26644406	2.3918395	21	—	—
148260 2000 FA_{24}	15.9	X	27.72925	94.38871	105.29080	12.85061	0.1131645	0.23618871	2.5919699	21	4 29.9	19.0
148261 2000 FV_{31}	15.6	X	258.53585	139.61565	88.32846	9.11346	0.2354885	0.22277216	2.6950207	21	—	—
148262 2000 FT_{33}	16.6	X	172.90467	159.39663	51.29572	2.81636	0.1270019	0.25668994	2.4520547	21	11 14.3	20.2
148263 2000 FM_{34}	15.6	X	309.00134	114.59853	101.97420	10.66355	0.2307905	0.22772648	2.6557898	21	—	—
148264 2000 FS_{34}	16.0	X	310.42213	77.64430	17.33786	15.17953	0.0857556	0.26089782	2.4256180	21	12 18.8	19.0
148265 2000 FQ_{37}	16.1	X	234.64353	112.56210	141.01766	5.80914	0.1802848	0.26743633	2.3859195	21	—	—
148266 2000 FQ_{39}	16.5	X	239.94793	73.96265	79.92528	3.36879	0.1336632	0.25875615	2.4389839	21	11 16.1	19.5
148267 2000 FH_{43}	16.1	X	11.70079	71.80936	138.68814	6.16569	0.0761008	0.28221319	2.3018897	21	4 6.6	18.4
148268 2000 FN_{57}	16.6	X	353.50651	23.42274	105.51177	2.90489	0.1708509	0.27214899	2.3582956	21	—	—
148269 2000 FX_{66}	17.5	X	290.93668	207.79810	353.82348	1.76967	0.1651370	0.27106606	2.3645724	21	—	—
148270 2000 GM_{6}	16.9	X	335.94715	324.62279	178.23203	3.49151	0.1541741	0.27042181	2.3683265	21	—	—
148271 2000 GF_{20}	17.1	X	266.61455	306.72995	265.68287	0.46468	0.1118365	0.26805991	2.3822179	21	—	—
148272 2000 GL_{29}	16.2	X	334.24545	274.65150	205.86195	6.00511	0.0875443	0.26644666	2.3918239	21	—	—
148273 2000 GB_{37}	15.7	X	357.61523	359.05676	30.01701	2.84749	0.2148463	0.25726089	2.4484254	21	12 22.4	17.9
148274 2000 GS_{39}	17.1	X	292.39481	99.94341	28.57791	2.55445	0.1735311	0.26317168	2.4116260	21	12 31.4	19.3
148275 2000 GB_{49}	16.3	X	319.65221	158.07162	14.39160	2.94957	0.1321130	0.27018602	2.3697042	21	—	—
148276 2000 GL_{56}	16.5	X	211.76132	85.33376	160.35421	1.26738	0.1519935	0.26316921	2.4116411	21	—	—
148277 2000 GV_{58}	16.7	X	218.01233	172.75814	29.12063	3.70281	0.1247666	0.25989359	2.4318624	21	12 22.3	19.9
148278 2000 GW_{83}	16.7	X	29.66686	71.39516	120.26037	5.07883	0.1288929	0.23675715	2.5878195	21	4 18.4	19.4
148279 2000 GF_{87}	15.9	X	261.29559	144.40833	60.92053	7.34442	0.1550554	0.26624719	2.3930183	21	—	—
148280 2000 GG_{93}	15.4	X	266.21351	77.29014	151.16677	12.10304	0.1580520	0.22265227	2.6959881	21	—	—
148281 2000 GT_{97}	16.7	X	245.40811	98.76603	146.51040	4.49104	0.1892664	0.26782950	2.3835839	21	—	—
148282 2000 GO_{107}	16.2	X	282.32337	112.39574	111.44826	3.40919	0.1521084	0.26998713	2.3708678	21	—	—
148283 2000 GM_{134}	15.9	X	64.58155	32.03989	168.47002	13.36091	0.1175703	0.24061793	2.5600634	21	6 27.7	19.3
148284 2000 GX_{157}	16.6	X	84.61067	44.28391	130.61899	5.85904	0.1731395	0.24194227	2.5507127	21	6 29.9	19.9
148285 2000 GC_{158}	16.7	X	288.22019	82.14335	81.06067	3.09822	0.1621476	0.26697196	2.3886854	21	—	—
148286 2000 GN_{164}	16.7	X	6.77636	267.53481	205.37010	4.10505	0.1851479	0.27217815	2.3581271	21	—	—
148287 2000 GD_{172}	16.5	X	339.64528	235.62033	298.96703	2.06838	0.1057502	0.27349438	2.3505551	21	—	—
148288 2000 GE_{172}	16.8	X	152.61548	314.67491	306.68442	2.43130	0.1893367	0.25735377	2.4478362	21	12 25.3	20.7
148289 2000 GO_{173}	16.6	X	284.52380	170.74827	341.50167	5.31388	0.1775001	0.26470259	2.4023185	21	—	—
148290 2000 HV_{2}	15.7	X	234.87943	314.87327	75.51105	4.99147	0.1786569	0.23949459	2.5680624	21	5 24.4	19.8
148291 2000 HJ_{25}	16.1	X	278.11095	323.60281	226.95478	4.19305	0.1788639	0.26622165	2.3931714	21	—	—
148292 2000 HB_{27}	16.2	X	167.02273	160.97967	94.26517	6.85337	0.1831726	0.25742649	2.4473752	21	12 30.5	20.2
148293 2000 HM_{27}	15.7	X	15.03245	99.48687	115.05181	14.03665	0.1066419	0.23644073	2.5901277	21	4 28.9	18.9
148294 2000 HQ_{34}	16.2	X	338.12186	109.53652	20.99489	3.57705	0.1374989	0.26747764	2.3856738	21	—	—
148295 2000 HU_{51}	16.6	X	180.47884	67.40785	151.51910	0.37591	0.1609487	0.25540045	2.4603012	21	11 29.7	20.5
148296 2000 HG_{67}	16.0	X	41.56555	54.10215	136.94261	13.83190	0.1311339	0.23574609	2.5952133	21	5 13.3	19.1
148297 2000 HH_{72}	16.9	X	224.27706	102.83553	89.95480	2.42339	0.1369986	0.25958831	2.4337687	21	12 16.5	20.1
148298 2000 HX_{74}	16.2	X	276.85548	24.26042	130.74465	3.96460	0.1284504	0.26202522	2.4186553	21	—	—
148299 2000 HM_{77}	15.7	X	15.22576	162.63489	57.41248	19.28309	0.1521002	0.23758659	2.5817931	21	5 3.8	18.3
148300 2000 HO_{97}	16.4	X	292.69284	82.27588	40.43694	2.93754	0.1498103	0.25991018	2.4317590	21	12 24.1	18.5
148301 2000 JJ_{2}	16.0	X	5.82628	95.66841	82.43082	23.09012	0.2617688	0.27629891	2.3346222	21	1 9.1	18.2
148302 2000 JR_{62}	16.0	X	340.01207	121.28156	13.84321	11.45190	0.1979550	0.26904466	2.3764014	21	—	—
148303 2000 KQ_{14}	16.5	X	268.87895	281.67024	251.01000	4.02693	0.1595621	0.26189348	2.4194664	21	—	—
148304 2000 KF_{41}	16.4	X	61.43555	44.22403	116.43335	4.23427	0.1711614	0.23707961	2.5854724	21	5 6.5	19.2
148305 2000 KD_{55}	15.7	X	161.53751	145.62342	98.03265	7.14235	0.1122568	0.25444510	2.4664557	21	12 14.4	19.3
148306 2000 KR_{68}	16.5	X	261.92805	220.19785	117.32136	7.78942	0.1498935	0.23147519	2.6270384	21	4 20.9	20.5
148307 2000 LR_{33}	15.2	X	282.62656	123.55864	102.68997	15.01741	0.1249409	0.22107309	2.7088116	21	—	—
148308 2000 LF_{36}	15.8	X	86.09162	325.75371	263.15263	4.12029	0.1805625	0.24332218	2.5410600	21	9 11.6	19.6
148309 2000 NA_{4}	16.3	X	85.98232	132.03535	235.59857	3.26014	0.2917118	0.20384723	2.8593425	21	—	—
148310 2000 NN_{4}	16.0	X	15.86208	122.61787	162.80731	4.04817	0.1293773	0.23552033	2.5968714	21	8 8.6	18.7
148311 2000 NE_{22}	15.8	X	263.07620	16.40704	291.55427	14.80114	0.2280875	0.22336110	2.6902813	21	2 27.5	20.4
148312 2000 OP_{1}	15.0	X	8.07992	339.20543	312.51914	13.51195	0.2655714	0.23566084	2.5958391	21	8 14.3	16.6
148313 2000 OZ_{22}	14.5	X	297.77586	14.86039	308.26767	16.33688	0.2737914	0.22942747	2.6426467	21	4 14.1	18.7
148314 2000 OH_{52}	16.0	X	23.16725	133.24091	168.32188	1.80642	0.1838051	0.23774562	2.5806416	21	9 24.2	18.4
148315 2000 PU_{6}	16.3	X	67.97253	233.13971	269.49263	17.28994	0.0766795	0.36204059	1.9496854	21	3 2.1	18.5
148316 2000 PL_{18}	16.6	X	224.31595	93.63657	320.03571	17.61582	0.1216024	0.37050440	1.9198788	21	6 14.8	19.4
148317 2000 QX_{12}	15.7	X	183.49639	228.26164	136.26881	10.32858	0.1468930	0.21712061	2.7415869	21	3 10.6	20.1
148318 2000 QK_{13}	15.2	X	122.40177	253.20972	150.43358	13.03712	0.1472720	0.21319763	2.7751159	21	2 23.3	19.2
148319 2000 QO_{32}	15.2	X	313.18880	136.70588	108.62173	10.68080	0.1128887	0.21999815	2.7176281	21	3 1.6	18.9
148320 2000 QV_{47}	15.8	X	235.94808	323.11614	338.19745	5.58456	0.0410934	0.21586764	2.7521854	21	2 14.2	19.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
148321 2000 QV_{52}	16.0	X	37.65845	134.83208	139.46903	4.95387	0.1807601	0.23503055	2.6004779	21	9 10.3	18.9
148322 2000 QT_{57}	15.5	X	129.54314	21.28465	347.82722	8.89280	0.1713916	0.20979692	2.8050244	21	1 25.8	19.7
148323 2000 QP_{64}	15.6	X	14.08299	294.47510	119.39531	9.64668	0.2709075	0.19578499	2.9373101	21	—	—
148324 2000 QH_{81}	16.1	X	5.42248	106.55204	174.20256	3.34493	0.2118117	0.23177193	2.6247956	21	7 14.9	18.3
148325 2000 QB_{83}	15.9	X	270.85012	67.79205	314.24859	1.13395	0.2566028	0.17990199	3.1077452	21	6 12.0	20.7
148326 2000 QA_{95}	15.5	X	182.65788	353.95829	345.37595	15.05283	0.0468166	0.21258390	2.7804545	21	2 4.9	19.7
148327 2000 QD_{99}	15.7	X	287.09122	178.31448	128.87719	6.08648	0.1663389	0.22258393	2.6965399	21	4 8.3	19.5
148328 2000 QQ_{106}	15.7	X	19.57277	155.73065	126.67906	4.30874	0.2529450	0.23445112	2.6047607	21	8 30.1	17.8
148329 2000 QO_{107}	15.0	X	94.03709	108.23006	342.95359	25.00662	0.2456165	0.21267763	2.7796376	21	3 25.1	19.0
148330 2000 QG_{111}	15.6	X	206.60250	357.03684	325.61152	7.02170	0.0730086	0.21387236	2.7692762	21	2 7.6	19.6
148331 2000 QO_{125}	15.7	X	33.51178	309.93938	328.92447	15.10871	0.1570396	0.23385767	2.6091656	21	9 2.1	18.7
148332 2000 QY_{134}	15.0	X	35.58656	73.92037	345.39274	14.40345	0.2504205	0.20177003	2.8789334	21	—	—
148333 2000 QA_{149}	15.6	X	111.31888	2.33788	347.43553	4.85496	0.1914809	0.20319027	2.8655024	21	—	—
148334 2000 QB_{158}	15.2	X	345.72537	83.58059	314.90571	20.47533	0.2038542	0.19230837	2.9726054	21	11 12.3	18.8
148335 2000 QJ_{159}	15.4	X	33.17017	120.43106	172.02178	17.02025	0.2416614	0.19157552	2.9801815	21	10 2.9	18.9
148336 2000 QP_{166}	15.7	X	240.39655	353.90689	313.01916	8.94358	0.1519827	0.21710537	2.7417152	21	2 17.5	20.0
148337 2000 QM_{167}	15.4	X	165.90623	33.98786	321.38813	8.41764	0.1759445	0.21187548	2.7866489	21	2 11.7	19.9
148338 2000 QQ_{167}	15.9	X	148.00954	48.19113	322.70141	8.79586	0.1907875	0.21087311	2.7954726	21	2 14.9	20.4
148339 2000 QG_{182}	15.6	X	191.72706	17.50124	299.47979	8.30691	0.1569580	0.21303543	2.7765244	21	1 19.5	20.0
148340 2000 QN_{202}	15.7	X	102.79486	261.73607	357.26681	10.38602	0.2807462	0.24304374	2.5430004	21	11 10.9	20.3
148341 2000 QF_{203}	15.5	X	269.51320	260.36801	63.15927	2.35167	0.1692169	0.22275243	2.6951799	21	4 7.2	19.4
148342 2000 QJ_{242}	16.1	X	188.26934	348.70483	345.49324	5.25367	0.0639973	0.21183610	2.7869942	21	2 2.9	20.2
148343 2000 RK_{5}	16.2	X	209.68045	350.95602	3.15494	18.81578	0.0959126	0.35764627	1.9656231	21	3 7.6	18.7
148344 2000 RW_{18}	14.7	X	241.74169	84.40034	326.24536	14.58416	0.2717097	0.17818923	3.1276280	21	6 19.5	20.1
148345 2000 RC_{19}	15.1	X	238.42569	2.01697	315.91539	11.75686	0.1207971	0.21713438	2.7414710	21	2 28.7	19.4
148346 2000 RL_{23}	15.2	X	271.52152	204.80749	196.12299	13.52244	0.2362301	0.18065536	3.0990993	21	7 7.1	20.0
148347 2000 RC_{24}	14.8	X	265.03418	81.24813	347.94241	8.16835	0.2417000	0.18101561	3.0949861	21	8 7.8	19.4
148348 2000 RL_{24}	15.4	X	300.90103	335.89868	319.51809	12.63749	0.1225347	0.22333587	2.6904838	21	4 6.9	19.2
148349 2000 RF_{29}	16.1	X	134.12016	46.46757	288.88816	6.84064	0.2639043	0.20510667	2.8476254	21	—	—
148350 2000 RN_{34}	15.7	X	300.05881	62.01197	323.98976	9.11052	0.2961331	0.18260595	3.0769902	21	7 18.9	19.6
148351 2000 RH_{43}	14.1	X	213.19850	75.52913	356.63859	25.28886	0.2696835	0.17439565	3.1728213	21	6 23.4	20.1
148352 2000 RH_{45}	15.2	X	354.61769	315.51937	332.86752	12.52064	0.1650257	0.22704543	2.6610980	21	7 4.1	18.0
148353 2000 RE_{100}	15.5	X	66.04054	5.64829	3.23199	6.71702	0.1170071	0.20043659	2.8916876	21	—	—
148354 2000 RV_{101}	14.6	X	50.46751	136.14857	284.57336	10.78087	0.1504647	0.20132386	2.8831853	21	—	—
148355 2000 RA_{102}	14.5	X	251.20247	53.62608	323.38884	15.42505	0.1459903	0.17599943	3.1535172	21	5 26.5	19.6
148356 2000 SE_{9}	16.6	X	70.27843	256.27808	192.81290	22.48426	0.1158135	0.35221936	1.9857622	21	—	—
148357 2000 ST_{17}	15.7	X	44.81783	39.45740	328.49529	4.42067	0.1530573	0.19592923	2.9358682	21	—	—
148358 2000 SY_{18}	15.9	X	357.51467	319.76566	301.92804	4.24883	0.2279565	0.22736442	2.6586085	21	5 21.8	18.1
148359 2000 SM_{20}	14.9	X	356.02752	57.21952	315.10310	11.65337	0.0719582	0.18787087	3.0192315	21	10 19.6	19.0
148360 2000 SJ_{27}	15.2	X	263.23368	104.62150	330.85090	6.26785	0.1914363	0.18288318	3.0738797	21	8 18.6	19.6
148361 2000 SG_{36}	15.6	X	273.88565	340.91719	70.44484	4.69174	0.2739012	0.18113560	3.0936191	21	7 20.6	20.1
148362 2000 SG_{46}	15.0	X	13.63717	61.03749	295.87187	14.50656	0.1992194	0.18905222	3.0066407	21	11 11.8	18.8
148363 2000 SX_{90}	14.8	X	264.74433	97.32762	277.96483	14.60739	0.2607494	0.17802470	3.1295546	21	5 27.7	19.8
148364 2000 SN_{91}	15.2	X	168.10016	53.66651	279.24914	10.80509	0.1445934	0.20999333	2.8032751	21	1 15.4	19.7
148365 2000 SP_{94}	15.4	X	325.42880	295.84807	333.84646	10.60860	0.1760830	0.22340642	2.6899174	21	4 1.7	18.8
148366 2000 SM_{100}	15.3	X	283.44122	91.63568	314.72941	11.35317	0.1641102	0.18090732	3.0962210	21	8 10.1	19.5
148367 2000 SS_{101}	16.1	X	70.30680	12.96495	21.43286	2.13637	0.0729856	0.20270758	2.8700495	21	—	—
148368 2000 SO_{105}	16.0	X	256.80497	306.26570	1.22883	2.18577	0.1474753	0.21759766	2.7375784	21	3 7.6	20.0
148369 2000 SW_{108}	15.8	X	258.90448	141.48238	168.48518	2.84255	0.1738037	0.21770706	2.7366613	21	3 10.1	20.0
148370 2000 SE_{119}	15.0	X	277.87044	63.83002	32.06197	10.73387	0.0874371	0.18718227	3.0266317	21	10 18.3	19.0
148371 2000 SU_{129}	14.3	X	262.72257	111.40022	284.49910	21.30015	0.2859354	0.18068334	3.0987792	21	6 19.1	19.3
148372 2000 ST_{137}	15.3	X	28.17706	66.53932	305.26863	11.24343	0.1879220	0.19276731	2.9678854	21	12 27.2	19.2
148373 2000 SP_{165}	15.0	X	277.31380	166.76656	243.01702	9.06352	0.2772598	0.18110009	3.0940235	21	7 19.0	19.6
148374 2000 SW_{174}	15.2	X	231.64492	4.76601	291.11509	6.98369	0.3124406	0.21357677	2.7718307	21	1 24.9	20.4
148375 2000 SO_{184}	15.7	X	255.61064	242.79183	165.16138	9.03610	0.2217033	0.17942219	3.1132831	21	7 2.3	20.7
148376 2000 SX_{195}	15.7	X	226.48199	212.32776	180.87386	1.03681	0.1906648	0.17553683	3.1590553	21	5 21.8	20.9
148377 2000 SN_{281}	14.9	X	304.04111	188.44025	245.36103	8.93051	0.0343135	0.19198509	2.9759415	21	10 30.6	19.0
148378 2000 SP_{282}	15.1	X	218.95124	157.13271	227.58200	15.30914	0.0855297	0.17347385	3.1840511	21	5 10.5	19.9
148379 2000 SQ_{294}	15.4	X	317.38245	78.36876	305.15017	9.69403	0.1789151	0.18282846	3.0744931	21	8 28.3	19.0
148380 2000 SS_{307}	15.3	X	335.48632	80.40633	332.61379	7.96235	0.0832360	0.18990069	2.9976783	21	11 13.9	19.2
148381 2000 SC_{309}	14.9	X	15.98486	32.50509	354.96197	10.95846	0.1005896	0.19221979	2.9735185	21	12 15.7	18.9
148382 2000 SR_{318}	14.1	X	244.01413	123.37254	284.00791	15.65364	0.1846706	0.17695464	3.1421584	21	6 25.1	19.0
148383 2000 SA_{352}	16.0	X	325.78908	206.53923	53.77295	4.49343	0.0453874	0.21927563	2.7235947	21	4 15.1	19.6
148384 Dalcanton	15.3	X	212.46103	267.87479	137.66652	9.96061	0.0963468	0.17529451	3.1619659	21	5 30.6	20.3
148385 2000 TG_{10}	16.0	X	297.22758	309.89866	141.29454	2.03181	0.2827314	0.18793005	3.0185977	21	10 12.4	19.5
148386 2000 TM_{19}	15.9	X	107.00291	167.67856	163.73992	2.15228	0.1133311	0.19973254	2.8984790	21	—	—
148387 2000 TS_{29}	15.8	X	354.84687	75.33829	334.45588	9.24432	0.1824245	0.19271111	2.9684624	21	12 21.5	19.3
148388 2000 TU_{33}	15.6	X	66.84526	189.05788	120.56992	0.68244	0.1570557	0.19142630	2.9817300	21	11 23.5	19.8
148389 2000 TN_{35}	16.3	X	288.10227	264.16615	188.37942	0.56690	0.3102190	0.18582752	3.0413240	21	9 23.4	19.8
148390 2000 TU_{37}	15.2	X	297.59099	179.66585	138.57867	14.28937	0.1654349	0.22592542	2.6698856	21	5 8.6	19.0
148391 2000 TV_{61}	15.2	X	311.25297	350.74694	79.70780	11.47136	0.1221138	0.18920549	3.0050167	21	11 3.2	18.9
148392 2000 TQ_{68}	15.3	X	62.09030	263.37587	137.94061	17.92811	0.1384364	0.20042205	2.8918275	21	—	—
148393 2000 UV_{12}	15.2	X	247.78098	119.50257	358.02618	15.16910	0.2738138	0.18266118	3.0763699	21	9 14.2	19.9
148394 2000 UU_{23}	15.0	X	288.42253	30.33062	65.38498	12.35544	0.2063235	0.18583817	3.0412079	21	10 19.9	18.9
148395 2000 UL_{38}	15.3	X	284.04860	114.52098	239.95495	3.26688	0.2871969	0.17834783	3.1257734	21	5 18.9	19.8
148396 2000 UJ_{43}	15.1	X	233.30220	305.92680	70.72228	4.35427	0.1699910	0.17127308	3.2112687	21	5 10.0	20.2
148397 2000 UE_{55}	14.8	X	247.63407	244.22210	216.50063	15.13503	0.2114980	0.17866532	3.1220693	21	8 24.7	19.8
148398 2000 UY_{61}	15.4	X	1.25375	185.65789	231.12598	9.28634	0.0883253	0.19320246	2.9634274	21	12 29.9	19.3
148399 2000 UB_{78}	15.2	X	223.32329	87.49477	46.93802	22.89456	0.2111338	0.18066369	3.0990039	21	9 28.8	20.5
148400 2000 UW_{80}	15.3	X	285.74806	332.05989	67.54335	5.32461	0.1730260	0.17867744	3.1219281	21	8 5.0	19.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
148401 2000 UF_{82}	14.8	X	305.28239	39.40136	17.49299	9.92173	0.0774077	0.18335414	3.0686138	21	10 7.3	18.7
148402 2000 UO_{98}	15.2	X	299.52878	30.99922	6.40187	5.08745	0.1605280	0.18068808	3.0987251	21	8 24.3	19.0
148403 2000 UU_{101}	15.5	X	259.89643	97.12023	334.20737	6.16384	0.1224962	0.17896109	3.1186285	21	8 18.9	19.9
148404 2000 VS_{40}	15.5	X	313.36531	77.24348	335.53675	5.13097	0.1596023	0.18540910	3.0458979	21	10 4.0	19.0
148405 2000 VJ_{41}	15.8	X	342.63325	62.00227	3.59864	2.45677	0.1254529	0.19106229	2.9855159	21	12 15.5	19.2
148406 2000 VC_{54}	15.1	X	303.82900	12.74903	19.64726	11.19879	0.0654290	0.18035265	3.1025661	21	9 8.6	19.3
148407 2000 WG_{8}	15.3	X	247.27043	188.20764	263.99326	10.65988	0.2507773	0.17551891	3.1592703	21	8 10.7	20.5
148408 2000 WQ_{13}	15.4	X	306.96348	84.90436	345.87216	6.71020	0.1288220	0.18516612	3.0485620	21	10 19.7	19.2
148409 2000 WF_{20}	16.1	X	315.78234	328.09934	41.53667	0.72728	0.1858151	0.18094117	3.0958349	21	8 8.8	19.6
148410 2000 WN_{24}	15.5	X	266.19040	303.33563	143.89912	7.61580	0.1755052	0.18016672	3.1047001	21	9 8.9	19.9
148411 2000 WR_{25}	15.0	X	302.84814	24.62116	51.13521	11.89866	0.1039015	0.18542136	3.0457637	21	10 27.3	18.8
148412 2000 WD_{47}	15.2	X	322.87135	306.45155	91.16929	10.08518	0.1090142	0.18316075	3.0707735	21	10 11.6	19.1
148413 2000 WY_{62}	14.9	X	242.42700	67.20194	56.21573	10.03513	0.1811270	0.18116600	3.0932730	21	9 29.7	19.7
148414 2000 WU_{70}	15.2	X	316.67448	67.77893	323.40441	5.96361	0.2259737	0.18298796	3.0727062	21	9 2.7	18.6
148415 2000 WK_{73}	14.9	X	118.43288	288.76389	266.72112	9.43380	0.0318064	0.17722564	3.1389544	21	8 13.7	19.6
148416 2000 WQ_{73}	15.8	X	265.75676	128.08735	344.36038	4.54753	0.2580439	0.18403680	3.0610208	21	9 26.5	20.1
148417 2000 WU_{75}	15.3	X	344.70024	31.53816	331.50127	4.67898	0.1222853	0.18297938	3.0728023	21	9 24.6	18.8
148418 2000 WD_{81}	14.7	X	272.68505	65.57771	295.34328	3.92043	0.1815312	0.17372111	3.1810292	21	5 27.9	19.3
148419 2000 WF_{83}	15.2	X	233.98817	353.29080	101.40795	11.56891	0.1053901	0.17557625	3.1585823	21	8 22.9	20.0
148420 2000 WZ_{90}	15.2	X	240.81285	7.82086	60.47431	9.43842	0.1459251	0.17450073	3.1715474	21	7 22.7	20.2
148421 2000 WT_{106}	16.9	X	45.51706	263.32062	317.93438	3.94326	0.0475884	0.31318887	2.1474934	21	6 15.3	18.9
148422 2000 WE_{108}	14.7	X	253.60568	63.07091	32.78089	10.44973	0.0861863	0.18030213	3.1031455	21	9 19.9	19.2
148423 2000 WN_{109}	14.7	X	232.98808	39.14599	58.02079	22.67704	0.1124138	0.17687611	3.1430884	21	9 2.4	19.9
148424 2000 WK_{114}	14.8	X	248.68628	203.50128	270.19259	13.92440	0.1366065	0.18063246	3.0993612	21	9 17.8	19.7
148425 2000 WZ_{114}	14.6	X	223.96678	68.07354	350.08939	4.95173	0.1782703	0.17155969	3.2076911	21	6 19.3	19.8
148426 2000 WB_{126}	15.3	X	5.75622	264.93376	123.26993	10.79173	0.1352496	0.18853814	3.0121036	21	12 7.1	19.1
148427 2000 WX_{132}	14.9	X	239.94566	59.73578	320.87276	9.31742	0.1216253	0.17219333	3.1998172	21	5 22.4	20.0
148428 2000 WV_{160}	14.5	X	197.32420	65.71650	120.22651	10.25942	0.2562817	0.18449439	3.0559573	21	10 27.2	19.9
148429 2000 WM_{165}	15.4	X	319.55278	298.65921	128.67736	9.76047	0.1748736	0.18677132	3.0310697	21	11 8.8	18.9
148430 2000 WZ_{167}	14.4	X	248.12741	304.18768	105.35622	13.05509	0.1883940	0.17634015	3.1494538	21	6 30.9	19.3
148431 2000 WU_{169}	15.7	X	236.92432	82.14489	6.52768	9.50330	0.2547797	0.17612130	3.1520624	21	8 4.1	21.0
148432 2000 WS_{176}	15.7	X	159.56851	250.46509	62.98478	2.95336	0.0470447	0.20028189	2.8931765	21	—	—
148433 2000 XW	16.3	X	351.03370	75.61163	85.42889	24.49823	0.1902892	0.34541317	2.0117629	21	—	—
148434 2000 XN_{3}	14.7	X	311.13975	41.57833	319.21092	11.14430	0.0875506	0.17780582	3.1321224	21	8 2.6	18.8
148435 2000 XJ_{4}	15.1	X	261.95664	84.04113	304.66628	8.95889	0.2490389	0.17568519	3.1572765	21	6 12.3	20.2
148436 2000 XP_{4}	14.8	X	21.39609	353.68914	325.02852	10.30360	0.1204122	0.18208364	3.0828715	21	9 23.9	18.7
148437 2000 XP_{14}	14.7	X	215.10613	54.95406	87.32599	27.00107	0.3345796	0.17666005	3.1456506	21	9 24.2	20.8
148438 2000 XU_{24}	14.7	X	303.96388	88.36537	308.89672	15.51387	0.1670354	0.17928413	3.1148812	21	8 24.0	18.6
148439 2000 XN_{25}	14.9	X	322.55947	47.09317	350.25325	7.78837	0.1466811	0.18142978	3.0902741	21	9 30.4	18.6
148440 2000 XY_{26}	14.4	X	267.21688	2.33091	57.38084	18.15419	0.0690968	0.17522174	3.1628412	21	8 29.8	19.2
148441 2000 XG_{31}	14.8	X	215.77701	55.77132	28.95102	14.56989	0.1660195	0.17214821	3.2003763	21	7 17.9	20.2
148442 2000 XN_{33}	15.0	X	313.59612	74.22696	315.79910	11.39923	0.1906425	0.17964116	3.1107527	21	8 29.0	18.7
148443 2000 XF_{36}	15.0	X	326.21702	62.24512	312.90542	15.02358	0.1387163	0.18155858	3.0888124	21	9 3.5	18.8
148444 2000 XL_{42}	14.9	X	214.53616	85.38502	12.49880	14.59687	0.1855217	0.17222919	3.1993731	21	8 2.9	20.3
148445 2000 XV_{51}	17.2	X	183.16933	5.41164	25.37387	7.55254	0.1889713	0.30742601	2.1742475	21	4 3.8	20.5
148446 2000 XG_{54}	15.2	X	230.81286	7.24308	91.51130	6.10613	0.1281558	0.17369548	3.1813421	21	8 20.9	20.1
148447 2000 YH	14.4	X	194.27020	170.93207	313.27171	25.34065	0.0961499	0.17345591	3.1842707	21	8 12.4	19.4
148448 2000 YB_{1}	14.3	X	202.72516	234.06341	278.50486	14.85157	0.1995126	0.17671597	3.1449870	21	9 12.9	19.9
148449 2000 YQ_{5}	14.5	X	207.92970	197.58364	301.71296	12.89277	0.0871542	0.18179806	3.0860992	21	9 11.5	19.4
148450 2000 YN_{35}	14.3	X	306.88488	294.91287	87.37682	17.29891	0.2298503	0.17831964	3.1261028	21	8 6.6	18.3
148451 2000 YN_{42}	15.1	X	246.27135	276.71775	150.46990	3.78571	0.1610458	0.17237659	3.1975488	21	7 23.2	20.0
148452 2000 YR_{59}	15.2	X	282.44811	207.32641	193.95579	2.18169	0.1896027	0.17527832	3.1621605	21	7 28.8	19.5
148453 2000 YO_{66}	14.4	X	219.52585	248.35118	189.87408	25.26247	0.2554530	0.17157309	3.2075241	21	7 2.8	20.4
148454 2000 YS_{70}	14.6	X	341.21764	260.15567	95.77071	12.84250	0.2102442	0.18098087	3.0953822	21	9 14.5	18.0
148455 2000 YM_{82}	14.9	X	217.58907	234.23432	264.71869	8.14280	0.1862728	0.17815813	3.1279919	21	9 14.5	20.1
148456 2000 YQ_{87}	15.0	X	262.86946	149.83375	281.39689	9.52578	0.1983066	0.17570511	3.1570379	21	8 8.6	19.7
148457 2000 YB_{88}	15.0	X	183.98558	58.43513	118.29820	13.32070	0.0790851	0.17806526	3.1290794	21	10 14.1	20.0
148458 2000 YG_{88}	15.3	X	287.03264	259.42301	165.00079	1.45983	0.1391066	0.17774220	3.1328698	21	9 11.5	19.5
148459 2000 YV_{97}	14.4	X	142.51123	266.64497	303.86779	15.42739	0.0770293	0.17452230	3.1712862	21	9 26.9	19.5
148460 2000 YA_{112}	14.3	X	238.81629	263.57083	312.05801	9.55576	0.1932707	0.18726316	3.0257600	21	—	—
148461 2000 YW_{131}	14.5	X	201.68127	114.06760	113.42220	12.91251	0.0732871	0.18388536	3.0627010	21	12 27.1	19.1
148462 2000 YN_{136}	15.0	X	217.83565	336.96080	147.29238	18.30127	0.1509715	0.17769326	3.1334451	21	9 5.5	19.9
148463 2001 AB_{7}	15.4	X	163.06124	60.97560	117.34878	15.46347	0.1130400	0.17396151	3.1780979	21	9 24.0	20.6
148464 2001 AT_{12}	14.3	X	196.76023	71.05092	145.06194	11.57965	0.1766077	0.18093330	3.0959246	21	12 2.3	19.5
148465 2001 AG_{52}	14.1	X	192.33233	132.88158	50.72368	28.06458	0.1857055	0.17477206	3.1682641	21	10 26.6	19.5
148466 2001 BA_{19}	14.9	X	291.00706	307.63395	102.06794	7.72990	0.2016360	0.17554258	3.1589863	21	8 21.6	19.1
148467 2001 BF_{68}	16.7	X	47.95707	26.59441	86.42798	1.83317	0.1244728	0.29270079	2.2465708	21	1 8.2	18.3
148468 2001 CJ_{10}	14.4	X	196.77207	219.34026	321.80535	15.60490	0.1627210	0.17707345	3.1407528	21	10 13.4	19.7
148469 2001 DL_{28}	16.6	X	292.53067	102.44547	64.63527	3.30271	0.1071331	0.28275193	2.2989648	21	—	—
148470 2001 DR_{42}	16.8	X	286.86629	9.88999	152.13363	7.38593	0.1245267	0.28166951	2.3048508	21	—	—
148471 2001 DY_{55}	17.5	X	189.26190	67.08264	146.55589	1.62290	0.1457490	0.27401175	2.3475954	21	12 5.8	20.8
148472 2001 DQ_{88}	17.1	X	218.32887	96.09409	358.08154	3.86446	0.0749901	0.31138436	2.1557821	21	8 11.7	19.8
148473 2001 EC_{4}	17.0	X	202.46231	42.94331	149.14540	7.62901	0.1396961	0.27264628	2.3554271	21	11 24.5	20.4
148474 2001 ED_{9}	16.7	X	200.10491	103.42086	80.54751	2.17540	0.2030685	0.27104617	2.3646881	21	11 4.2	20.2
148475 2001 EX_{17}	16.7	X	282.09756	3.34452	167.15030	2.49654	0.1536439	0.28044703	2.3115439	21	—	—
148476 2001 FU_{70}	16.5	X	151.12508	80.76427	128.18375	2.75375	0.1474296	0.26541672	2.3980074	21	10 23.9	20.1
148477 2001 FS_{99}	17.1	X	199.77851	145.95697	43.13152	2.92341	0.1599511	0.27077678	2.3662562	21	11 13.4	20.4
148478 2001 FJ_{112}	16.8	X	352.98045	166.66910	85.22120	9.24260	0.0756594	0.29757168	2.2219877	21	5 5.8	19.1
148479 2001 FK_{124}	16.8	X	257.51814	97.58701	74.52382	3.51700	0.1247854	0.27788897	2.3257079	21	—	—
148480 2001 FE_{155}	17.1	X	66.87298	73.76123	139.57656	2.37494	0.2607614	0.30197920	2.2003142	21	8 15.5	19.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
148481 2001 FL_{161}	16.9	X	18.81414	73.37628	183.81522	2.29424	0.2190471	0.29925539	2.2136455	21	7 12.2	18.0
148482 2001 HC_{21}	16.4	X	41.11154	178.05016	51.73040	1.49077	0.1174258	0.25137241	2.4865144	21	7 1.9	19.0
148483 2001 HU_{54}	16.4	X	101.31131	16.53983	118.68872	4.19680	0.0922403	0.29681688	2.2257531	21	5 13.4	19.0
148484 2001 HK_{60}	15.6	X	128.43707	250.71525	93.25883	20.17675	0.2407545	0.27421197	2.3464526	21	—	—
148485 2001 JW	16.7	X	264.10370	69.91008	196.85459	0.81622	0.1707238	0.23484851	2.6018216	21	1 19.9	20.7
148486 2001 JF_{9}	16.6	X	244.50884	27.49244	268.53834	5.04152	0.1755029	0.28388026	2.2928690	21	1 29.3	20.2
148487 2001 KB_{12}	16.4	X	231.65994	195.85914	82.95092	6.31036	0.1889126	0.27945179	2.3170289	21	—	—
148488 2001 KU_{22}	16.8	X	347.50437	181.81077	71.81524	5.48789	0.0815217	0.29377258	2.2411033	21	4 26.9	18.9
148489 2001 KD_{27}	16.5	X	157.16280	243.69131	61.15628	1.50231	0.2228917	0.27151423	2.3619697	21	—	—
148490 2001 KR_{29}	16.7	X	196.23345	109.40841	194.25869	1.58234	0.2101715	0.27780070	2.3262005	21	—	—
148491 2001 KP_{48}	16.6	X	21.05139	123.29735	127.00172	7.08252	0.1060139	0.29724521	2.2236144	21	6 24.0	18.6
148492 2001 KB_{51}	16.8	X	236.74146	234.47265	65.88371	5.04416	0.1913002	0.28281335	2.2986320	21	1 30.3	20.5
148493 2001 KV_{61}	16.3	X	319.85292	128.43216	165.51742	3.96375	0.1078141	0.24699383	2.5158147	21	5 11.2	19.2
148494 2001 KX_{70}	16.7	X	272.88890	266.94265	21.35983	4.98567	0.1689622	0.28771006	2.2724762	21	2 18.5	20.0
148495 2001 LO_{1}	15.6	X	209.90849	31.78244	286.23012	23.18531	0.1624166	0.27787074	2.3258097	21	1 23.5	19.4
148496 2001 LZ_{7}	16.1	X	144.67355	217.17997	122.40727	7.61548	0.1340805	0.27103027	2.3647806	21	—	—
148497 2001 MM_{10}	16.7	X	219.77173	152.81368	124.49004	7.28066	0.0984298	0.27454196	2.3445719	21	—	—
148498 2001 MU_{10}	16.3	X	95.20270	260.08800	46.69102	2.48465	0.1995033	0.26078887	2.4262936	21	—	—
148499 2001 MD_{15}	16.0	X	49.77939	18.92270	318.25147	6.57444	0.2307136	0.25594188	2.4568302	21	12 29.5	19.5
148500 2001 MP_{15}	15.6	X	288.12008	49.87997	305.31435	4.27444	0.2688636	0.23977257	2.5660772	21	5 23.0	19.2
148501 2001 MF_{18}	16.0	X	132.06127	187.05798	113.13427	7.25128	0.2395286	0.26519766	2.3993278	21	—	—
148502 2001 MM_{18}	16.4	X	122.76055	194.67629	135.65148	4.78215	0.2085867	0.26659750	2.3909216	21	—	—
148503 2001 NQ	15.8	X	158.43865	181.23766	108.34657	16.76656	0.2611160	0.26806862	2.3821662	21	—	—
148504 2001 NG_{18}	15.5	X	325.51791	53.09167	259.68104	7.66159	0.2313031	0.24350046	2.5398195	21	5 27.6	17.8
148505 2001 NQ_{22}	16.4	X	65.49749	173.86058	123.98453	7.80802	0.1034991	0.25261706	2.4783403	21	11 12.5	19.8
148506 2001 OG_{7}	15.5	X	308.42658	46.95584	295.93719	9.97470	0.3099778	0.24170026	2.5524151	21	5 26.4	18.6
148507 2001 OA_{44}	15.9	X	283.99666	15.97337	337.79657	5.28555	0.1835057	0.23787251	2.5797238	21	5 28.4	19.4
148508 2001 OX_{46}	16.3	X	279.74400	149.19674	143.43289	6.12011	0.1756496	0.28422703	2.2910037	21	3 1.8	19.5
148509 2001 ON_{58}	16.1	X	167.97827	24.34498	293.73882	3.68743	0.2066741	0.27070398	2.3666804	21	—	—
148510 2001 OW_{61}	16.1	X	58.22290	30.65777	338.50960	4.60159	0.2298252	0.26009216	2.4306245	21	—	—
148511 2001 OK_{67}	15.8	X	208.82002	219.71130	175.08131	12.00525	0.1975789	0.23138754	2.6277017	21	5 8.1	20.3
148512 2001 OL_{70}	15.3	X	203.22221	62.14736	329.59790	12.50654	0.3024733	0.23032701	2.6357617	21	4 20.3	20.4
148513 2001 OE_{113}	15.0	X	206.00511	303.93835	22.00446	12.95118	0.2860360	0.22724690	2.6595249	21	2 16.3	20.0
148514 2001 PS_{5}	15.9	X	222.73119	37.65052	357.57317	10.88232	0.1853440	0.23523447	2.5989749	21	5 14.9	20.4
148515 2001 PW_{8}	15.8	X	34.49359	24.23064	357.21769	5.11540	0.0547368	0.25751466	2.4468166	21	—	—
148516 2001 PX_{9}	16.2	X	245.42101	120.02564	153.68185	9.78863	0.2034944	0.22790297	2.6544185	21	1 10.8	20.8
148517 2001 PA_{27}	15.8	X	90.80301	195.83215	338.48564	9.18291	0.0110376	0.23787079	2.5797362	21	6 11.2	19.4
148518 2001 PW_{28}	16.4	X	148.28160	22.54868	273.64518	6.35888	0.1007673	0.26422255	2.4052273	21	—	—
148519 2001 PO_{40}	15.6	X	107.86670	132.36580	304.65677	12.18048	0.1396285	0.22353457	2.6888893	21	3 10.9	19.4
148520 2001 PT_{41}	16.1	X	251.49066	104.89493	306.39594	11.57192	0.1654633	0.23965847	2.5668916	21	7 10.5	19.8
148521 2001 PL_{46}	16.3	X	244.06044	278.44302	95.85260	12.45074	0.2385058	0.23570388	2.5955231	21	5 11.9	20.7
148522 2001 PT_{49}	14.8	X	82.90951	195.34499	288.78230	20.98208	0.0426009	0.22608735	2.6686106	21	3 16.9	18.9
148523 2001 PH_{53}	16.4	X	100.39542	33.80412	307.81478	5.57141	0.1035926	0.26400360	2.4065570	21	—	—
148524 2001 PP_{59}	15.9	X	329.84526	231.88170	115.96044	14.63017	0.2262402	0.24395888	2.5366368	21	8 5.2	17.9
148525 2001 QG	16.7	X	59.36792	12.84444	325.02583	0.45138	0.1989760	0.25673550	2.4517646	21	—	—
148526 2001 QV	16.6	X	134.99310	11.31271	300.51289	2.60747	0.1298749	0.26490105	2.4011185	21	—	—
148527 2001 QC_{2}	15.9	X	141.74530	181.62622	214.96117	2.71524	0.2898802	0.22127828	2.7071367	21	3 18.8	20.3
148528 2001 QC_{5}	16.2	X	293.35200	244.66930	144.47469	13.69191	0.1801034	0.24505547	2.5290638	21	8 1.2	19.2
148529 2001 QQ_{5}	16.6	X	82.76031	199.89240	124.35974	2.27765	0.1881730	0.25929728	2.4355894	21	—	—
148530 2001 QP_{19}	15.4	X	223.53641	88.91183	338.04616	16.87215	0.1561283	0.23806267	2.5783499	21	7 4.1	19.7
148531 2001 QZ_{27}	15.5	X	213.43084	15.08899	27.11207	6.05662	0.2809918	0.23097005	2.6308673	21	5 14.9	20.3
148532 2001 QL_{32}	15.1	X	156.36351	180.81329	331.50592	13.72067	0.1384064	0.24414411	2.5353537	21	8 16.1	18.9
148533 2001 QZ_{32}	16.8	X	297.79305	232.62053	125.99711	2.62953	0.2197092	0.24121058	2.5558683	21	6 18.9	19.8
148534 2001 QQ_{39}	16.3	X	34.38894	224.90118	119.62188	4.30135	0.1967498	0.25557608	2.4591739	21	12 15.7	19.3
148535 2001 QB_{58}	16.1	X	146.88789	172.28681	110.77634	4.16442	0.1658436	0.26264645	2.4148400	21	—	—
148536 2001 QG_{83}	15.7	X	192.83075	27.78757	324.34992	8.12164	0.3114285	0.22421737	2.6834276	21	3 3.2	20.7
148537 2001 QJ_{91}	16.4	X	167.05001	4.87254	295.54283	5.98234	0.1217169	0.26894430	2.3769926	21	—	—
148538 2001 QM_{97}	15.6	X	245.90285	41.83765	322.34910	4.73395	0.2622860	0.23313385	2.6145633	21	4 23.4	20.1
148539 2001 QH_{102}	16.5	X	240.34367	137.04487	132.09838	3.20682	0.0736881	0.27600459	2.3362815	21	—	—
148540 2001 QN_{102}	16.0	X	58.18223	208.43078	134.02713	7.01040	0.1490281	0.25908961	2.4368907	21	—	—
148541 2001 QC_{119}	16.1	X	239.35056	171.75794	236.31253	5.36795	0.1594833	0.23841600	2.5758019	21	6 22.2	20.0
148542 2001 QH_{123}	16.1	X	343.56013	265.56838	114.40837	6.80220	0.1033418	0.25145053	2.4859994	21	11 1.7	18.8
148543 2001 QG_{125}	16.4	X	287.81803	10.77163	23.03178	3.82239	0.1942521	0.24399523	2.5363849	21	7 29.9	19.4
148544 2001 QM_{130}	15.5	X	185.86879	83.53385	299.75266	10.36247	0.2228703	0.22857088	2.6492450	21	3 28.6	20.2
148545 2001 QP_{134}	16.1	X	74.16527	15.56531	312.17896	10.24728	0.1649176	0.25568611	2.4584684	21	—	—
148546 2001 QW_{141}	16.6	X	140.92627	341.54331	293.02892	1.52604	0.1877379	0.25973111	2.4328765	21	12 31.7	20.7
148547 2001 QK_{144}	16.3	X	259.71533	200.12429	344.93753	2.49760	0.1098216	0.26245768	2.4159978	21	—	—
148548 2001 QU_{144}	16.1	X	195.55218	87.04297	337.87755	10.15715	0.1163891	0.23432759	2.6056762	21	5 30.7	20.3
148549 2001 QL_{147}	15.2	X	174.93130	350.16191	69.89683	14.45875	0.1574007	0.22708528	2.6607867	21	5 9.8	19.5
148550 2001 QA_{152}	14.6	X	311.63537	57.48955	290.75763	28.82925	0.1314370	0.23815018	2.5777182	21	7 11.9	17.5
148551 2001 QU_{155}	15.5	X	265.04095	41.84549	333.14517	21.54043	0.0444295	0.23967815	2.5667511	21	6 27.7	19.4
148552 2001 QR_{159}	15.9	X	169.47812	44.82713	10.09538	3.42328	0.1761266	0.23004448	2.6379193	21	4 25.5	20.3
148553 2001 QB_{161}	16.1	X	303.81420	7.72664	351.37746	2.78878	0.1556602	0.24322721	2.5417214	21	7 10.9	19.0
148554 2001 QR_{163}	16.0	X	129.08415	50.34873	350.27864	8.82237	0.2756348	0.21870776	2.7283071	21	3 12.4	20.3
148555 2001 QM_{164}	16.3	X	26.68894	239.89008	132.93891	15.10611	0.1411541	0.25697945	2.4502127	21	—	—
148556 2001 QZ_{176}	16.0	X	339.31827	337.14038	171.45280	2.24550	0.1476020	0.26651191	2.3914334	21	—	—
148557 2001 QH_{194}	14.4	X	122.37437	179.21924	312.21153	13.98651	0.1387647	0.23141600	2.6274863	21	6 12.9	18.5
148558 2001 QQ_{194}	14.7	X	46.52644	214.11554	300.98213	12.90963	0.1185298	0.22459113	2.6804496	21	3 18.1	18.0
148559 2001 QW_{203}	16.3	X	206.47984	343.90106	292.29603	9.31281	0.1432159	0.27048784	2.3679410	21	—	—
148560 2001 QP_{204}	16.3	X	29.48537	64.28786	277.58291	6.46855	0.1161046	0.25299040	2.4759015	21	11 20.9	19.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
148561 2001 QO_{215}	15.8	X	345.37237	5.03611	26.48747	2.10176	0.1002912	0.20152300	2.8812856	21	11 6.7	19.2
148562 2001 QJ_{216}	16.3	X	284.40352	313.69679	77.15249	2.87549	0.1695718	0.24222657	2.5487165	21	7 23.8	19.5
148563 2001 QW_{219}	15.0	X	156.08944	89.72133	293.27017	13.54329	0.0936010	0.22039479	2.7143666	21	2 21.9	19.2
148564 2001 QA_{223}	16.2	X	206.53211	70.73883	339.04354	16.59570	0.2067526	0.23537890	2.5979116	21	5 16.1	20.9
148565 2001 QP_{228}	15.6	X	221.17803	80.60511	308.80990	12.98351	0.1112581	0.23466230	2.6031978	21	5 9.4	19.8
148566 2001 QJ_{233}	16.1	X	280.03946	29.78804	342.41357	2.26558	0.2062506	0.23962000	2.5671663	21	6 15.1	19.4
148567 2001 QK_{236}	16.1	X	281.51277	129.84423	162.29185	5.51213	0.2535330	0.28247451	2.3004698	21	2 22.2	19.7
148568 2001 QS_{244}	15.6	X	183.16542	244.95781	165.63439	11.36895	0.1897904	0.22918201	2.6445333	21	5 6.3	20.2
148569 2001 QR_{254}	16.0	X	82.20383	203.24003	121.80547	11.20661	0.1839637	0.25905113	2.4371320	21	—	—
148570 2001 QK_{255}	15.9	X	187.42696	87.23235	312.77847	11.84165	0.1983287	0.23091774	2.6312646	21	4 18.2	20.6
148571 2001 QB_{260}	16.2	X	216.41646	89.76459	310.73903	6.35695	0.1973563	0.23306860	2.6150512	21	5 17.4	20.6
148572 2001 QS_{265}	15.8	X	127.75749	216.07069	140.49041	5.65284	0.0804569	0.22002197	2.7174320	21	—	—
148573 2001 QN_{268}	16.0	X	308.14249	43.41503	296.72825	13.18801	0.1196049	0.23935154	2.5690856	21	6 26.7	19.0
148574 2001 QK_{269}	15.4	X	173.72686	93.98655	326.27554	15.46153	0.1908289	0.22933429	2.6433625	21	4 30.2	20.1
148575 2001 QA_{272}	15.8	X	187.44172	144.93021	300.30868	12.04050	0.0964168	0.23636316	2.5906944	21	6 20.5	19.8
148576 2001 QU_{274}	15.8	X	165.35636	154.86133	110.99960	7.89260	0.2277041	0.21554540	2.7549277	21	—	—
148577 2001 QV_{284}	15.5	X	192.69298	11.28821	88.55473	13.18523	0.1090710	0.23569214	2.5956093	21	7 14.8	19.5
148578 2001 QG_{286}	16.3	X	309.75814	125.92342	237.11682	3.47309	0.2050431	0.24505869	2.5290416	21	7 17.6	18.8
148579 2001 QD_{287}	15.3	X	124.32617	68.20110	326.65196	11.98937	0.1829392	0.22061578	2.7125536	21	2 17.5	19.1
148580 2001 QG_{291}	15.9	X	271.29122	56.05890	309.32289	2.47183	0.2550107	0.23667271	2.5884350	21	5 19.9	19.8
148581 2001 QS_{292}	15.4	X	266.45368	240.18586	126.61330	6.15124	0.2600374	0.23527220	2.5986970	21	5 18.9	19.5
148582 2001 QM_{333}	15.7	X	212.01686	32.18192	50.94385	14.09699	0.1418767	0.23858984	2.5745505	21	7 12.5	19.9
148583 2001 QN_{333}	15.9	X	147.22205	331.69506	89.84337	14.73478	0.2405339	0.22478491	2.6789089	21	4 25.6	20.6
148584 2001 QU_{333}	15.0	X	314.53850	77.95773	320.77407	8.71979	0.0759894	0.19238919	2.9717729	21	9 24.4	18.8
148585 2001 RO_{4}	16.6	X	217.38863	3.66608	268.17576	2.86231	0.2466989	0.27228707	2.3574982	21	—	—
148586 2001 RP_{5}	16.6	X	337.69996	25.54242	312.43462	4.46531	0.1388011	0.24416344	2.5352198	21	8 13.8	19.1
148587 2001 RM_{6}	15.8	X	189.22396	230.26619	189.65618	11.13049	0.1631440	0.23082903	2.6319387	21	5 21.6	20.2
148588 2001 RW_{7}	16.6	X	267.16033	113.33022	265.70250	2.97725	0.2359002	0.23929698	2.5694760	21	6 5.2	20.2
148589 2001 RQ_{11}	15.5	X	175.70718	215.01105	177.38298	5.37694	0.2254488	0.22539015	2.6741110	21	4 7.0	19.9
148590 2001 RQ_{15}	16.4	X	224.34406	274.62924	352.89430	2.99235	0.2241770	0.27209036	2.3586343	21	—	—
148591 2001 RR_{16}	16.5	X	129.38108	202.62351	126.84809	4.38220	0.1750343	0.26472998	2.4021528	21	—	—
148592 2001 RM_{17}	15.4	X	328.99719	6.87309	10.59220	1.84268	0.1199331	0.19625550	2.9326135	21	9 20.6	18.8
148593 2001 RO_{21}	15.6	X	243.74163	76.11091	345.91516	13.25534	0.0747581	0.24243098	2.5472837	21	7 30.5	19.2
148594 2001 RX_{29}	16.6	X	231.62949	68.47190	338.15683	6.87202	0.1981461	0.23680270	2.5874876	21	6 8.7	20.8
148595 2001 RR_{32}	15.9	X	226.51268	125.37861	250.78264	5.41073	0.1144518	0.23497769	2.6008679	21	5 1.0	19.8
148596 2001 RD_{33}	16.2	X	127.08549	163.13786	167.10982	11.47894	0.2764829	0.21610728	2.7501504	21	—	—
148597 2001 RL_{33}	15.7	X	175.43914	97.91677	317.77704	16.14130	0.1892928	0.23144983	2.6272303	21	4 25.2	20.5
148598 2001 RT_{40}	15.8	X	245.54503	221.21013	98.01740	7.20223	0.2212705	0.23033669	2.6356878	21	3 7.9	20.3
148599 2001 RN_{48}	15.6	X	154.77674	60.05615	358.83117	13.32769	0.2175626	0.22504920	2.6768112	21	4 16.6	20.1
148600 2001 RE_{52}	17.0	X	178.69382	92.30258	198.55931	2.24336	0.1668701	0.26735929	2.3863778	21	—	—
148601 2001 RE_{55}	17.0	X	237.38792	79.31421	325.02295	0.74052	0.1711390	0.23750815	2.5823615	21	6 14.3	21.1
148602 2001 RK_{56}	16.0	X	207.60351	7.66317	154.02084	5.78345	0.0982574	0.25103655	2.4887317	21	10 23.5	19.5
148603 2001 RF_{59}	17.1	X	325.75611	181.89195	78.17623	3.70315	0.2152233	0.28418016	2.2912556	21	3 10.3	19.6
148604 Shobbrook	15.9	X	158.79156	118.30513	311.61524	12.40130	0.2072409	0.22844422	2.6502241	21	5 1.9	20.6
148605 2001 RT_{63}	16.4	X	231.88476	324.03603	66.03342	3.33352	0.2328025	0.23523527	2.5989690	21	5 17.7	20.6
148606 2001 RK_{71}	15.5	X	56.15277	21.63797	351.80104	6.02171	0.1275388	0.25702602	2.4499167	21	—	—
148607 2001 RN_{80}	15.2	X	251.06986	53.89513	7.16542	14.94064	0.0898364	0.24073331	2.5592454	21	8 7.8	18.9
148608 2001 RS_{80}	15.7	X	193.69206	91.74150	342.12601	10.79494	0.1730334	0.23341933	2.6124311	21	6 9.5	20.2
148609 2001 RB_{83}	16.3	X	171.82099	173.59787	239.56129	3.11487	0.2760296	0.22815736	2.6524450	21	4 29.3	21.0
148610 2001 RF_{98}	16.5	X	223.93297	200.20480	201.60718	1.79186	0.0808404	0.23391375	2.6087486	21	6 4.3	20.3
148611 2001 RQ_{104}	16.6	X	182.45652	200.92224	98.14395	3.46654	0.2108167	0.26929126	2.3749504	21	—	—
148612 2001 RY_{108}	16.9	X	301.38223	249.77818	8.97876	2.74634	0.1439594	0.28049760	2.3112661	21	2 14.5	20.0
148613 2001 RV_{109}	16.4	X	350.02220	139.10703	6.98356	3.46754	0.1241753	0.26865761	2.3786833	21	—	—
148614 2001 RR_{113}	16.7	X	256.11918	119.67267	137.01050	3.21324	0.1833746	0.27404925	2.3473813	21	—	—
148615 2001 RS_{114}	16.3	X	224.67552	56.80878	27.52368	4.06435	0.1211915	0.24088126	2.5581973	21	7 29.4	20.0
148616 2001 RC_{117}	15.7	X	240.87318	180.90687	358.47889	7.18488	0.0865817	0.25862885	2.4397842	21	12 28.4	18.8
148617 2001 RA_{118}	16.2	X	138.12853	116.77365	359.73330	4.61027	0.1306762	0.23348649	2.6119301	21	6 8.9	20.1
148618 2001 RV_{119}	16.1	X	337.15523	300.02967	50.58206	4.29409	0.1699151	0.24557123	2.5255215	21	9 3.5	18.3
148619 2001 RM_{120}	15.9	X	113.81713	156.04302	163.46760	12.73690	0.1221066	0.21124266	2.7922114	21	—	—
148620 2001 RE_{122}	16.4	X	234.00244	20.18165	8.86638	4.52938	0.1459188	0.23532058	2.5983408	21	5 23.1	20.5
148621 2001 RC_{126}	16.7	X	285.19616	309.38828	52.42580	3.81028	0.2235363	0.23950353	2.5679986	21	6 4.8	20.3
148622 2001 RY_{126}	16.4	X	325.88818	267.22155	76.51986	4.62438	0.1671068	0.24321948	2.5417753	21	7 28.0	18.8
148623 2001 RG_{127}	16.4	X	322.16800	312.90586	34.03376	5.69193	0.1263163	0.24287812	2.5441563	21	7 31.8	19.2
148624 2001 RE_{131}	15.8	X	130.75709	213.56475	122.19568	2.36019	0.1785230	0.26500246	2.4005059	21	—	—
148625 2001 RD_{133}	16.3	X	300.10887	228.42772	145.74261	8.26181	0.1878202	0.24227999	2.5483418	21	7 20.1	19.2
148626 2001 RV_{134}	15.9	X	188.80281	34.00104	16.64769	13.42108	0.1685335	0.23092677	2.6311960	21	5 4.5	20.4
148627 2001 RE_{136}	15.8	X	293.63435	352.69366	25.56530	8.92310	0.0639448	0.24180383	2.5516862	21	8 9.6	19.1
148628 2001 RP_{151}	15.5	X	307.34483	239.99404	62.22447	10.27347	0.2137732	0.23639429	2.5904670	21	4 19.8	18.8
148629 2001 RT_{151}	15.8	X	196.48214	10.88330	45.28008	14.49117	0.1019326	0.23288348	2.6164368	21	5 20.8	19.8
148630 2001 RU_{155}	16.4	X	157.58360	297.86966	154.34050	13.52015	0.2202382	0.22923129	2.6441542	21	6 5.4	21.1
148631 2001 SP_{3}	15.3	X	94.09160	96.00277	13.44812	6.24604	0.1553506	0.22345630	2.6895172	21	4 12.2	18.8
148632 2001 SO_{10}	15.9	X	253.53617	61.44609	351.93001	14.50373	0.1105700	0.24152263	2.5536664	21	7 26.9	19.6
148633 2001 SU_{13}	15.8	X	168.05091	84.06352	1.23719	11.24134	0.1642057	0.23214028	2.6220182	21	5 29.8	20.2
148634 2001 SL_{19}	16.7	X	7.42572	324.44719	359.77019	5.00484	0.1352004	0.24626791	2.5207561	21	9 22.6	19.3
148635 2001 ST_{19}	15.6	X	145.07823	102.49359	2.53633	10.70893	0.2154061	0.23023783	2.6364422	21	6 6.4	20.1
148636 2001 SJ_{22}	17.1	X	1.80197	337.20989	356.73345	3.65596	0.1449905	0.24639875	2.5198637	21	9 27.0	19.4
148637 2001 SY_{23}	16.1	X	212.78968	289.74247	191.55089	1.44875	0.0826636	0.24342631	2.5403352	21	9 4.9	19.5
148638 2001 SH_{31}	16.7	X	54.05754	269.43605	60.83878	3.05474	0.1799401	0.25308288	2.4752983	21	12 17.9	20.1
148639 2001 SQ_{31}	15.4	X	292.77140	3.33557	56.39562	2.86701	0.0673458	0.19572349	2.9379253	21	9 26.8	19.2
148640 2001 SB_{42}	15.8	X	118.65398	358.78999	54.25554	3.96644	0.1287183	0.22113117	2.7083372	21	2 28.6	19.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
148641 2001 SB_{45}	15.8	X	235.63283	293.88762	129.59238	4.28135	0.1274501	0.23796127	2.5790823	21	7 11.7	19.6
148642 2001 SO_{45}	16.0	X	166.04991	247.87118	163.41586	13.35532	0.1766933	0.22672785	2.6635824	21	4 22.2	20.4
148643 2001 ST_{45}	16.5	X	141.93025	181.61573	107.79866	4.63839	0.2547101	0.26175292	2.4203325	21	—	—
148644 2001 SU_{56}	15.7	X	98.46549	36.63490	34.14074	14.90644	0.1510794	0.21831969	2.7315392	21	3 6.9	19.5
148645 2001 SD_{61}	16.1	X	186.77689	146.77018	190.33316	1.78839	0.1701903	0.22125596	2.7073188	21	2 6.6	20.4
148646 2001 SY_{66}	15.9	X	244.47887	249.80094	168.06935	6.22186	0.1877423	0.23606343	2.5928869	21	7 7.1	19.9
148647 2001 SL_{75}	15.8	X	151.15017	345.38193	335.11400	6.32670	0.1571028	0.26439680	2.4041705	21	—	—
148648 2001 SD_{86}	17.0	X	199.06348	340.57369	293.86554	1.57300	0.1706089	0.26962856	2.3729693	21	—	—
148649 2001 SY_{86}	16.4	X	232.79225	85.05244	316.27636	4.91069	0.0997878	0.23793033	2.5793058	21	6 11.7	20.2
148650 2001 ST_{93}	16.0	X	271.58114	210.15462	319.77717	1.78283	0.1443701	0.26081325	2.4261424	21	—	—
148651 2001 SQ_{110}	15.1	X	152.32043	172.46539	246.51833	11.28829	0.1764174	0.22248216	2.6973621	21	4 12.9	19.6
148652 2001 SB_{111}	15.0	X	240.53261	158.70710	254.80768	13.40296	0.0870320	0.23342051	2.6124222	21	7 6.9	18.8
148653 2001 SK_{118}	16.6	X	231.52372	164.11258	242.07211	3.82873	0.1311320	0.23697707	2.5862182	21	6 14.2	20.6
148654 2001 SK_{119}	15.7	X	123.06818	273.52449	196.97416	12.30113	0.1551235	0.22991566	2.6389045	21	5 20.4	19.7
148655 2001 SG_{121}	15.9	X	259.45959	229.79555	313.33994	6.75344	0.1468745	0.26107618	2.4245132	21	—	—
148656 2001 SW_{123}	16.4	X	167.62355	326.89912	316.30398	6.51542	0.0791904	0.26397468	2.4067327	21	—	—
148657 2001 SX_{124}	16.3	X	118.19225	19.42629	301.53210	5.28333	0.0977505	0.26156996	2.4214610	21	—	—
148658 2001 SG_{128}	16.3	X	163.08002	335.98165	279.92802	4.24999	0.0792354	0.26045092	2.4283919	21	—	—
148659 2001 ST_{128}	16.3	X	230.85679	51.47977	308.26812	4.35132	0.2264189	0.23137337	2.6278090	21	4 7.9	20.8
148660 2001 SW_{131}	15.4	X	100.12853	72.51519	357.78004	9.06398	0.1354082	0.22055189	2.7130774	21	2 27.9	18.8
148661 2001 SE_{137}	16.3	X	274.81698	295.75684	265.78816	1.33702	0.1489326	0.26495211	2.4008100	21	—	—
148662 2001 SA_{138}	16.7	X	16.46011	113.04468	192.78859	0.87059	0.1444438	0.24480819	2.5307665	21	9 12.8	19.4
148663 2001 SM_{145}	15.9	X	210.54197	129.43549	322.31213	5.71316	0.1250370	0.23869764	2.5737753	21	7 22.8	19.8
148664 2001 SH_{150}	15.8	X	140.09823	210.26755	223.01996	7.85640	0.1572562	0.22535053	2.6744244	21	4 19.2	19.8
148665 2001 SQ_{156}	16.3	X	218.61204	103.09664	317.03583	6.63599	0.1812638	0.23532395	2.5983160	21	6 15.6	20.5
148666 2001 SP_{158}	15.3	X	190.01328	143.24446	236.99724	5.81101	0.1857094	0.22616626	2.6679899	21	3 31.3	19.8
148667 2001 SW_{158}	16.1	X	261.58159	26.71550	329.87342	4.17702	0.1826607	0.23387191	2.6090596	21	5 5.9	20.2
148668 2001 SH_{161}	16.0	X	7.41968	328.50531	0.07223	2.65502	0.2131452	0.24631472	2.5204368	21	10 8.6	18.1
148669 2001 SL_{162}	15.7	X	192.74012	120.25993	329.01938	2.49961	0.1318643	0.23414645	2.6070198	21	6 30.3	19.7
148670 2001 SU_{165}	16.7	X	260.31711	272.67077	351.51214	1.91771	0.1827508	0.27539712	2.3397159	21	1 6.8	20.2
148671 2001 SQ_{166}	16.2	X	212.26746	266.83919	182.10444	7.14689	0.1234842	0.23857036	2.5746907	21	7 18.9	20.2
148672 2001 SQ_{172}	16.4	X	166.04153	341.67398	25.18286	1.64103	0.0907888	0.22222816	2.6994171	21	2 18.5	20.3
148673 2001 SB_{176}	16.2	X	133.55198	9.77614	78.26913	3.51828	0.1788988	0.22607263	2.6687265	21	5 4.8	20.3
148674 2001 SZ_{186}	16.2	X	115.57293	15.21962	172.16317	2.62016	0.0856722	0.24277439	2.5448809	21	8 12.1	19.8
148675 2001 SF_{200}	17.0	X	32.79500	195.89276	161.34530	3.42772	0.0515160	0.25362413	2.4717754	21	12 7.9	20.1
148676 2001 SR_{202}	16.1	X	191.35991	328.77556	154.51960	2.57671	0.0714474	0.24171488	2.5523122	21	8 14.4	19.5
148677 2001 ST_{210}	16.7	X	154.01613	119.77094	162.77275	4.12022	0.1632652	0.26188860	2.4194964	21	—	—
148678 2001 SM_{213}	16.7	X	281.70458	251.97285	116.87153	4.94008	0.1928870	0.23899750	2.5716221	21	6 15.1	20.0
148679 2001 SB_{215}	15.6	X	127.03307	286.68230	169.92686	12.91815	0.2265750	0.22575245	2.6712492	21	5 15.9	20.0
148680 2001 SX_{215}	16.5	X	285.41989	53.41055	13.92047	3.70452	0.0640136	0.24760194	2.5116938	21	10 2.2	19.6
148681 2001 SA_{224}	15.3	X	21.24710	175.64743	126.06490	2.21908	0.0431732	0.19317703	2.9636874	21	8 30.5	19.2
148682 2001 SB_{224}	16.8	X	18.74250	286.39259	30.49685	3.79830	0.1738965	0.24662566	2.5183178	21	10 8.9	19.3
148683 2001 SG_{227}	15.2	X	58.12444	265.51133	40.10558	2.38872	0.0811841	0.19938209	2.9018744	21	10 29.9	19.2
148684 2001 SZ_{229}	16.2	X	328.97038	156.13899	171.31611	1.75629	0.1302861	0.23987916	2.5653170	21	7 11.7	18.9
148685 2001 SF_{230}	16.4	X	278.59200	11.85385	21.47451	1.09627	0.1601967	0.23972919	2.5663867	21	7 20.1	19.6
148686 2001 SS_{235}	16.3	X	268.65981	318.28438	24.18109	1.77276	0.1689645	0.23312993	2.6145926	21	4 28.4	20.0
148687 2001 SO_{244}	16.3	X	18.07731	204.11237	108.53550	5.47633	0.1614549	0.24596591	2.5228191	21	10 2.1	18.9
148688 2001 SU_{246}	16.5	X	231.85679	252.91487	106.44640	2.42562	0.0821496	0.22925029	2.6440081	21	4 19.9	20.3
148689 2001 SM_{247}	16.0	X	139.91092	69.65410	28.26754	13.06936	0.2460001	0.22605456	2.6688686	21	5 25.1	20.6
148690 2001 SV_{247}	16.3	X	316.47765	220.35326	118.52093	2.59493	0.0573172	0.23794949	2.5791674	21	7 15.9	19.2
148691 2001 SQ_{250}	16.7	X	166.52218	242.57392	137.07817	3.29716	0.2282359	0.22243828	2.6977168	21	3 16.1	21.3
148692 2001 SC_{252}	16.4	X	291.10004	322.87900	30.93393	3.46819	0.0436564	0.23578556	2.5949236	21	7 1.4	19.7
148693 2001 SJ_{253}	16.3	X	207.50360	263.35546	156.19976	3.81755	0.1129428	0.23214249	2.6220016	21	6 7.9	20.3
148694 2001 SP_{253}	16.2	X	240.90143	240.33884	150.01357	3.55891	0.1696472	0.23358136	2.6112228	21	5 31.7	20.2
148695 2001 SR_{253}	16.5	X	1.52187	190.21876	139.52525	3.19085	0.0885916	0.24276462	2.5449492	21	9 16.5	19.2
148696 2001 SS_{260}	16.6	X	262.44409	35.49200	333.95097	3.47081	0.1690510	0.23522946	2.5990117	21	5 25.9	20.5
148697 2001 SH_{261}	16.4	X	187.34652	101.46945	283.20777	1.50255	0.1397262	0.22603530	2.6690202	21	4 3.5	20.7
148698 2001 SA_{264}	15.1	X	220.78713	184.62349	268.38923	20.83615	0.0491137	0.23976081	2.5661611	21	8 2.7	19.1
148699 2001 SA_{272}	16.1	X	148.32241	233.97265	204.47463	5.60852	0.1323634	0.22610840	2.6684450	21	5 3.3	20.2
148700 2001 SU_{277}	15.5	X	127.45243	73.88623	337.95123	9.24486	0.2904667	0.21904185	2.7255322	21	3 23.5	19.9
148701 2001 SV_{289}	15.9	X	217.64680	49.69790	336.43318	13.00599	0.1576016	0.23194060	2.6235230	21	4 27.9	20.3
148702 2001 SG_{316}	15.4	X	178.44046	126.57202	284.17600	13.49217	0.0946745	0.22472107	2.6794163	21	4 21.5	19.8
148703 2001 SX_{320}	16.6	X	106.19534	107.10846	167.26594	3.77309	0.0835069	0.25283379	2.4769237	21	11 25.2	20.1
148704 2001 SV_{323}	15.6	X	315.58364	349.77180	269.72542	10.54340	0.1447325	0.22844980	2.6501809	21	3 7.3	19.2
148705 2001 SZ_{339}	16.0	X	106.23705	187.00541	267.98509	7.42276	0.0970134	0.22495518	2.6775570	21	3 27.7	19.7
148706 2001 SA_{349}	16.1	X	207.13742	106.91004	343.63573	21.61671	0.1077559	0.23645341	2.5900352	21	7 25.5	20.3
148707 Dodelson	15.9	X	297.87451	200.36964	123.03353	14.77247	0.1899835	0.23354771	2.6114736	21	5 12.0	19.6
148708 2001 TX_{14}	16.3	X	257.41373	279.81640	131.59619	6.12966	0.1081346	0.23917500	2.5703496	21	7 24.3	19.9
148709 2001 TW_{16}	16.6	X	162.65011	218.18052	207.45824	24.21711	0.1008625	0.37699809	1.8977687	21	4 15.9	18.7
148710 2001 TJ_{20}	15.7	X	228.06006	122.55850	281.38747	8.63260	0.0676134	0.23190572	2.6237860	21	6 13.1	19.5
148711 2001 TQ_{22}	16.2	X	359.29896	62.22346	272.88728	1.53685	0.1428850	0.24408297	2.5357771	21	9 22.6	18.8
148712 2001 TX_{30}	16.5	X	268.89199	223.70879	127.00408	5.31455	0.2055435	0.23372676	2.6101398	21	5 7.2	20.4
148713 2001 TA_{36}	15.3	X	97.79004	103.66648	7.67009	8.94173	0.1126043	0.21996238	2.7179227	21	4 12.5	18.9
148714 2001 TD_{39}	15.7	X	179.81173	26.24824	10.52481	9.65778	0.1202984	0.22329060	2.6908475	21	4 10.5	19.9
148715 2001 TK_{40}	15.4	X	157.35988	61.42427	339.83660	5.36163	0.1382699	0.21896264	2.7261895	21	3 25.9	19.7
148716 2001 TR_{40}	15.0	X	208.84605	70.16976	286.44877	11.10446	0.2222395	0.22226852	2.6990903	21	3 14.9	19.9
148717 2001 TB_{50}	15.4	X	173.12080	16.27436	34.73393	11.68972	0.1642570	0.22778973	2.6552981	21	4 24.4	19.7
148718 2001 TK_{51}	16.4	X	313.92740	259.56223	94.29649	4.40449	0.2704513	0.24138107	2.5546647	21	6 30.3	18.9
148719 2001 TO_{51}	15.7	X	267.60631	275.67647	62.58902	5.33791	0.3199226	0.23382319	2.6094220	21	4 8.9	20.0
148720 2001 TC_{52}	15.6	X	264.88446	271.62910	78.51249	5.34711	0.3020151	0.23411741	2.6072354	21	4 22.6	19.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
148721 2001 TD_{52}	15.8	X	185.40652	346.05246	110.55377	4.67525	0.1331964	0.23288442	2.6164298	21	7 2.2	19.9
148722 2001 TN_{64}	15.3	X	152.63696	307.00625	213.68378	14.14538	0.0386859	0.23798632	2.5789013	21	8 12.8	19.3
148723 2001 TJ_{67}	16.2	X	228.44128	163.60272	243.71668	1.23285	0.1522288	0.23291468	2.6162032	21	6 10.8	20.2
148724 2001 TM_{69}	16.3	X	133.00692	67.25894	17.66765	3.48340	0.0777562	0.22613597	2.6682281	21	4 17.8	19.9
148725 2001 TX_{70}	16.4	X	221.99245	257.26401	151.66872	2.77010	0.1784977	0.23252181	2.6191493	21	6 5.2	20.5
148726 2001 TY_{73}	15.6	X	160.73580	91.60404	8.51760	1.96591	0.1725727	0.22899738	2.6459545	21	6 13.7	19.9
148727 2001 TS_{75}	15.7	X	153.95625	204.74676	220.54704	12.11308	0.1375693	0.22478588	2.6789012	21	4 21.7	19.8
148728 2001 TG_{85}	16.9	X	196.44398	130.16290	233.26887	1.18146	0.2178552	0.22516485	2.6758945	21	3 18.4	21.4
148729 2001 TB_{87}	16.6	X	188.03569	136.98714	258.55510	3.54361	0.1735238	0.22783235	2.6549669	21	4 17.6	20.9
148730 2001 TJ_{87}	16.1	X	166.21410	297.25668	336.65186	6.05408	0.1242223	0.26032648	2.4291658	21	—	—
148731 2001 TA_{88}	15.9	X	174.74414	94.08761	327.97246	4.93280	0.1212885	0.22888429	2.6468260	21	5 6.1	20.0
148732 2001 TA_{94}	16.2	X	281.33089	133.28657	256.22966	2.76102	0.0468052	0.23949533	2.5680571	21	8 4.8	19.4
148733 2001 TD_{94}	16.2	X	159.24950	112.37531	322.02146	2.38335	0.0676222	0.22842445	2.6503770	21	5 3.2	20.1
148734 2001 TL_{102}	14.7	X	219.79322	80.00398	335.22829	13.53987	0.0366737	0.23297379	2.6157607	21	6 21.5	18.6
148735 2001 TN_{104}	15.6	X	127.09466	24.86242	40.75159	10.04743	0.1979335	0.21973688	2.7197819	21	4 4.7	19.8
148736 2001 TG_{105}	15.0	X	234.30325	14.20922	37.51724	3.00374	0.1320803	0.23372432	2.6101579	21	6 24.4	19.0
148737 2001 TC_{113}	14.7	X	8.49290	151.84071	10.80502	9.13875	0.1959875	0.21672262	2.7449423	21	1 26.6	17.6
148738 2001 TF_{113}	15.5	X	135.33425	60.90703	26.80295	22.35363	0.0320071	0.22595718	2.6696354	21	4 18.4	19.0
148739 2001 TX_{114}	15.6	X	35.23554	111.06243	7.84344	8.50548	0.1133313	0.21329725	2.7742518	21	1 21.1	18.9
148740 2001 TS_{115}	15.2	X	101.62728	54.51950	26.32019	9.14223	0.1364999	0.21772015	2.7365516	21	3 17.4	18.8
148741 2001 TT_{118}	15.5	X	271.70667	77.04948	294.06152	11.55994	0.2180228	0.23672853	2.5880281	21	6 1.5	19.4
148742 2001 TM_{120}	15.4	X	356.31511	333.06005	342.96479	15.31021	0.0574452	0.23981867	2.5657483	21	8 19.6	18.4
148743 2001 TS_{132}	15.8	X	124.88598	177.05799	309.70316	8.29167	0.1110296	0.23089501	2.6314373	21	6 5.6	19.7
148744 2001 TF_{134}	15.3	X	110.67724	278.59037	168.38380	11.85878	0.1590305	0.22096683	2.7096799	21	4 7.6	19.1
148745 2001 TA_{136}	15.9	X	109.19971	120.50949	327.10873	11.59061	0.1599654	0.22219592	2.6996782	21	3 30.0	19.8
148746 2001 TP_{139}	16.4	X	239.08606	192.35753	63.28198	4.18231	0.2428397	0.27202407	2.3590175	21	—	—
148747 2001 TR_{143}	16.4	X	101.43022	197.38522	120.65165	3.72868	0.0635659	0.25651919	2.4531427	21	—	—
148748 2001 TF_{164}	16.6	X	245.06347	223.07379	152.06347	1.23723	0.0904945	0.23242003	2.6199139	21	5 23.9	20.4
148749 2001 TM_{170}	15.5	X	84.76462	220.20230	230.33111	13.72606	0.0836164	0.22007690	2.7169798	21	2 17.3	19.3
148750 2001 TL_{171}	16.1	X	192.29478	295.81354	108.11601	11.74764	0.1160379	0.22792488	2.6542484	21	5 7.4	20.4
148751 2001 TQ_{178}	16.4	X	209.62868	61.14273	247.99691	3.79012	0.2218468	0.22174053	2.7033732	21	1 24.3	21.2
148752 2001 TS_{180}	15.8	X	167.39719	276.19884	260.58052	3.98991	0.1503605	0.24238787	2.5475856	21	9 23.4	19.8
148753 2001 TZ_{181}	16.1	X	136.29051	153.10481	326.81349	2.73523	0.1253927	0.22946528	2.6423564	21	6 11.5	20.1
148754 2001 TG_{191}	15.4	X	314.81184	218.30133	24.97584	7.96107	0.1655388	0.27195309	2.3594279	21	2 11.7	18.5
148755 2001 TH_{191}	15.9	X	100.80900	42.94766	24.18804	9.07394	0.1474565	0.21636888	2.7479333	21	3 1.3	19.6
148756 2001 TD_{194}	16.7	X	129.12559	289.87611	332.94463	2.10930	0.1521995	0.25480679	2.4641211	21	12 6.2	20.6
148757 2001 TG_{195}	15.4	X	108.72683	14.87902	145.59209	13.20482	0.0731116	0.23285387	2.6166587	21	6 27.2	19.2
148758 2001 TK_{196}	15.8	X	215.48954	202.67388	92.02124	12.32662	0.2671420	0.27250644	2.3562328	21	1 7.2	19.9
148759 2001 TF_{203}	16.0	X	73.55384	355.26360	78.22224	11.82913	0.0677766	0.21617524	2.7495740	21	1 16.3	19.5
148760 2001 TH_{212}	16.0	X	217.13096	179.83287	274.11135	9.18629	0.0871048	0.23954913	2.5676727	21	8 1.8	19.8
148761 2001 TX_{215}	15.8	X	197.70225	76.89170	341.84990	11.44675	0.1355298	0.22997186	2.6384746	21	5 23.6	20.2
148762 2001 TL_{219}	16.2	X	351.90746	226.23063	84.84613	4.88247	0.2057207	0.24131337	2.5551425	21	8 2.4	18.2
148763 2001 TK_{225}	15.7	X	262.75058	306.56833	119.57997	10.57748	0.0416940	0.23949078	2.5680897	21	9 3.4	19.1
148764 2001 TA_{227}	16.4	X	137.26244	176.26336	26.01886	2.31795	0.0524020	0.24214405	2.5492955	21	9 25.2	19.8
148765 2001 TQ_{228}	15.5	X	204.38629	83.46612	298.64969	13.05015	0.1172281	0.22815287	2.6524799	21	4 10.5	19.9
148766 2001 TY_{228}	15.7	X	314.08835	13.01316	313.67919	13.52835	0.1516197	0.23692672	2.5865846	21	6 10.6	18.9
148767 2001 TJ_{229}	15.6	X	186.27843	62.31602	44.29003	12.74900	0.1353329	0.23728555	2.5839762	21	7 18.4	19.9
148768 2001 TB_{232}	15.6	X	169.44046	270.55786	93.22389	8.20078	0.0876223	0.22165116	2.7040998	21	2 20.4	19.7
148769 2001 TE_{239}	15.5	X	171.04305	301.49396	144.31634	12.69090	0.1742402	0.23130340	2.6283389	21	6 7.3	20.0
148770 2001 TD_{240}	15.9	X	291.43136	219.60402	107.85708	4.13638	0.1657013	0.23357983	2.6112342	21	5 8.2	19.3
148771 2001 UN	15.9	X	179.36885	115.90182	304.39709	11.58951	0.1829603	0.22809666	2.6529156	21	5 8.3	20.5
148772 2001 UU_{2}	16.3	X	240.95883	178.40424	132.37167	3.70782	0.0947185	0.22431995	2.6826094	21	2 27.0	20.2
148773 2001 UT_{3}	15.6	X	30.66378	19.04700	91.34034	9.52451	0.2503420	0.21201835	2.7853969	21	—	—
148774 2001 UK_{4}	16.0	X	201.44033	336.39588	63.89398	2.79109	0.0749350	0.22738195	2.6584718	21	5 8.4	19.8
148775 2001 UM_{4}	15.9	X	58.48062	198.47063	73.73573	3.19283	0.0208342	0.23940176	2.5687262	21	9 14.4	19.1
148776 2001 US_{8}	16.3	X	147.94336	111.10486	349.81635	2.71675	0.1347070	0.22838166	2.6507081	21	5 30.6	20.3
148777 2001 UK_{10}	15.9	X	107.89267	107.05780	23.50111	7.47570	0.1881392	0.22564021	2.6721350	21	5 30.9	19.8
148778 2001 UL_{13}	15.6	X	141.05851	316.47146	52.79454	10.88191	0.2051388	0.21595414	2.7514504	21	2 11.8	20.0
148779 2001 UJ_{18}	16.1	X	178.56528	31.19358	65.70369	4.42236	0.0222478	0.23314699	2.6144650	21	6 24.9	19.7
148780 Altjira	5.8	X	127.71169	300.65001	1.65072	5.19422	0.0652695	0.00335519	44.1900386	21	12 7.7	22.4
148781 2001 UL_{19}	15.7	X	139.62789	21.57614	40.08909	10.82697	0.1600379	0.22516086	2.6759261	21	4 7.9	19.7
148782 2001 UE_{21}	16.1	X	155.45784	75.03063	329.49640	11.25718	0.2157185	0.22487334	2.6782065	21	3 29.9	20.6
148783 2001 UL_{21}	15.8	X	197.03864	156.08523	273.38662	6.09871	0.2024634	0.23290591	2.6162689	21	6 7.4	20.1
148784 2001 UK_{25}	15.4	X	202.16971	177.45220	246.44509	12.36131	0.1347378	0.23144465	2.6272694	21	6 6.7	19.4
148785 2001 UN_{26}	16.0	X	143.75512	79.58648	346.04487	10.81057	0.1867970	0.22379524	2.6868009	21	4 12.7	20.4
148786 2001 UD_{32}	15.7	X	145.98777	329.72250	149.67867	4.53249	0.1659839	0.23184646	2.6242330	21	6 24.1	19.9
148787 2001 UV_{32}	15.7	X	274.42800	240.48878	128.40724	6.58854	0.1810771	0.23625630	2.5914755	21	6 8.4	19.3
148788 2001 UP_{42}	16.2	X	141.85004	304.20340	195.97732	7.15037	0.1412264	0.23332323	2.6131483	21	7 13.8	20.4
148789 2001 UX_{47}	15.6	X	135.67962	36.90198	63.88007	14.53768	0.1326965	0.22579978	2.6708759	21	5 18.7	19.5
148790 2001 UU_{50}	15.2	X	185.73362	283.79003	77.77675	12.96504	0.1743475	0.22111000	2.7085101	21	3 14.1	19.9
148791 2001 UW_{53}	15.9	X	220.21029	265.98564	174.60302	2.28300	0.0627869	0.23510279	2.5999452	21	7 22.7	19.6
148792 2001 UF_{54}	16.3	X	130.66581	229.24131	219.36782	1.86090	0.1730103	0.22337588	2.6901626	21	5 1.3	20.3
148793 2001 UZ_{60}	16.2	X	241.77820	235.59227	215.32678	1.45768	0.0998806	0.19093749	2.9868167	21	8 24.8	20.4
148794 2001 UF_{62}	16.1	X	33.69508	254.72741	344.69430	2.28066	0.0442714	0.23409697	2.6073872	21	6 25.3	19.2
148795 2001 UV_{65}	15.7	X	129.11807	35.21646	34.51845	2.09663	0.2171327	0.22000884	2.7175401	21	4 11.2	19.9
148796 2001 UP_{66}	15.7	X	331.81187	64.03323	250.84391	6.98550	0.2129350	0.24059314	2.5602393	21	6 16.9	17.9
148797 2001 UH_{67}	16.1	X	89.48417	173.92572	58.72807	3.27076	0.1295261	0.24175263	2.5520465	21	9 17.9	19.6
148798 2001 UL_{75}	15.8	X	156.62667	280.05817	143.92209	5.33766	0.1586532	0.22424702	2.6831910	21	4 26.9	20.0
148799 2001 UQ_{81}	16.1	X	243.23788	165.80163	209.01202	3.97647	0.1011341	0.23127862	2.6285267	21	5 20.5	19.9
148800 2001 UM_{91}	16.2	X	303.50056	271.15320	130.04624	1.90679	0.0137934	0.24488660	2.5302263	21	9 28.6	19.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
148801 2001 UR_{93}	15.7	X	166.37800	30.47372	79.18306	12.58655	0.1454303	0.23089632	2.6314273	21	6 30.2	19.9
148802 2001 UO_{98}	16.4	X	288.06287	235.91595	89.30087	3.69581	0.0941954	0.23154995	2.6264729	21	5 11.3	19.8
148803 2001 US_{99}	16.0	X	265.57061	173.54707	144.63023	2.72577	0.0299344	0.22658443	2.6647063	21	4 12.6	19.6
148804 2001 UX_{101}	16.3	X	149.37198	88.98359	41.52461	5.39346	0.2179797	0.23198377	2.6231974	21	7 15.0	20.7
148805 2001 UU_{103}	16.2	X	54.25339	333.37501	159.44026	3.18445	0.3122184	0.21761984	2.7373924	21	4 6.9	18.4
148806 2001 UW_{106}	14.6	X	294.73376	223.05829	41.22072	26.89356	0.1730566	0.17405332	3.1769802	21	3 13.8	19.7
148807 2001 UM_{108}	16.1	X	273.20460	248.11062	68.34003	3.13982	0.0725172	0.22730196	2.6590954	21	4 14.2	19.8
148808 2001 US_{108}	15.6	X	257.99003	157.98770	216.06913	3.11558	0.2060081	0.23318829	2.6141563	21	5 24.1	19.6
148809 2001 UP_{110}	16.2	X	88.71166	192.72225	9.67438	3.68683	0.0740347	0.23757472	2.5818791	21	7 29.4	19.6
148810 2001 UX_{112}	15.9	X	234.39075	54.78446	315.10813	2.60561	0.1893384	0.22940478	2.6428209	21	4 26.4	20.1
148811 2001 UX_{114}	16.3	X	198.46562	342.24009	58.85230	3.02974	0.0307974	0.22797989	2.6538214	21	5 6.5	19.8
148812 2001 UN_{115}	15.5	X	96.31123	315.43582	182.32554	3.92399	0.1648222	0.22430279	2.6827463	21	5 25.6	19.2
148813 2001 UY_{116}	16.1	X	160.97955	310.05182	141.76336	2.15715	0.0050205	0.22905162	2.6455368	21	5 25.5	19.7
148814 2001 UK_{117}	16.2	X	183.96147	31.97812	65.96279	2.52840	0.0850304	0.23208549	2.6224309	21	7 2.9	20.1
148815 2001 UD_{118}	16.5	X	123.40765	352.64932	116.17134	1.12911	0.1930706	0.22373483	2.6872845	21	5 21.9	20.6
148816 2001 UB_{124}	15.6	X	242.99340	218.40213	138.31897	14.44222	0.1257606	0.23060876	2.6336144	21	4 29.6	19.8
148817 2001 UN_{125}	15.6	X	175.77532	270.40717	105.31796	14.71881	0.1159288	0.22243156	2.6977712	21	3 19.1	20.0
148818 2001 UT_{125}	16.4	X	183.31890	258.05195	116.17515	12.36377	0.2076675	0.22364485	2.6880053	21	3 26.4	21.1
148819 2001 UO_{126}	16.1	X	60.95405	155.77872	50.97320	4.57286	0.0816222	0.23253010	2.6190870	21	6 25.6	19.2
148820 2001 UW_{127}	15.1	X	272.43164	228.12679	152.38626	4.62885	0.2915720	0.23480380	2.6021518	21	6 6.7	19.0
148821 2001 UV_{130}	16.4	X	233.50275	251.19237	99.18881	2.93590	0.0856913	0.22707149	2.6608944	21	4 10.6	20.3
148822 2001 UQ_{132}	16.6	X	160.81363	223.80878	211.95035	1.70996	0.1928094	0.22882016	2.6473205	21	5 15.4	21.0
148823 2001 UR_{141}	16.5	X	255.24436	317.23647	50.44312	2.83885	0.0661092	0.23236184	2.6203512	21	5 28.8	20.0
148824 2001 UY_{144}	16.7	X	228.85357	200.29085	171.46662	2.18535	0.1039036	0.22866218	2.6485397	21	4 30.6	20.6
148825 2001 UA_{145}	15.3	X	146.44746	80.60118	52.42114	8.63167	0.1309234	0.18030147	3.1031532	21	7 10.5	20.3
148826 2001 UJ_{153}	15.8	X	245.17659	269.72134	106.30354	1.54527	0.1151860	0.23015097	2.6371056	21	5 22.7	19.7
148827 2001 UV_{154}	14.8	X	12.29476	194.59178	70.96383	18.19949	0.0852043	0.18097302	3.0954716	21	6 30.4	18.8
148828 2001 UZ_{158}	15.6	X	353.71196	82.88802	139.04935	3.59650	0.0382027	0.22276385	2.6950877	21	4 4.1	19.1
148829 2001 UD_{167}	15.3	X	227.27303	107.26358	338.51870	10.05685	0.1323851	0.23558319	2.5964095	21	8 2.9	19.2
148830 2001 UL_{169}	15.4	X	87.18335	76.02876	340.35698	9.90019	0.3155917	0.21225946	2.7832871	21	2 20.6	18.7
148831 2001 UN_{169}	15.3	X	92.73315	39.50337	19.84779	11.31683	0.2464281	0.21230567	2.7828833	21	2 25.3	19.0
148832 2001 UA_{176}	16.6	X	182.06813	300.71225	107.93061	3.48005	0.0950393	0.22606332	2.6687997	21	4 29.4	20.6
148833 2001 UY_{177}	16.7	X	227.57694	5.44546	94.57011	1.32768	0.0724516	0.23934956	2.5690997	21	8 27.2	20.1
148834 2001 UF_{192}	16.3	X	332.60484	63.38233	314.59046	11.25782	0.1005134	0.24615935	2.5214972	21	9 28.9	19.3
148835 2001 UQ_{192}	15.8	X	281.00896	42.95424	316.74521	10.09071	0.1458236	0.23655328	2.5893062	21	6 8.1	19.4
148836 2001 UN_{196}	15.5	X	264.40592	295.76169	37.39185	1.14260	0.1710516	0.18043915	3.1015743	21	4 16.4	20.0
148837 2001 UK_{210}	15.7	X	176.70189	118.38329	314.92157	21.24750	0.0771350	0.23070962	2.6328467	21	5 18.0	20.1
148838 2001 UP_{214}	16.2	X	141.44373	177.90488	167.40487	3.66618	0.0988277	0.21403522	2.7678712	21	—	—
148839 2001 UK_{218}	15.8	X	180.12740	16.42476	122.08080	14.24198	0.1133452	0.23549148	2.5970836	21	8 22.6	19.8
148840 2001 VD_{7}	16.2	X	356.90725	256.42905	44.40727	3.54548	0.1306753	0.23752369	2.5822489	21	7 27.9	18.7
148841 2001 VL_{11}	15.5	X	217.52594	145.27457	276.21994	10.53171	0.0217810	0.23229811	2.6208305	21	6 27.6	18.9
148842 2001 VG_{13}	16.1	X	21.12939	300.22706	358.10173	2.70753	0.1131632	0.24009696	2.5637653	21	9 6.2	18.8
148843 2001 VZ_{16}	15.7	X	217.00936	102.13447	318.04197	12.04397	0.1616107	0.23291121	2.6162292	21	6 15.6	20.0
148844 2001 VA_{22}	15.2	X	302.05871	225.66492	46.30746	14.05674	0.1169355	0.22408845	2.6844567	21	3 23.6	19.0
148845 2001 VE_{22}	15.8	X	245.65951	336.52737	19.34059	2.76086	0.1479968	0.22879123	2.6475437	21	4 23.6	19.9
148846 2001 VK_{22}	15.6	X	317.12393	286.48352	32.32541	4.23779	0.1056953	0.23322634	2.6138720	21	6 11.2	18.7
148847 2001 VY_{23}	16.3	X	160.96417	136.18083	281.03112	1.80202	0.1893323	0.22333102	2.6905228	21	4 21.7	20.7
148848 2001 VY_{24}	15.5	X	96.98011	7.07584	48.75950	9.33070	0.1333639	0.21396886	2.7684435	21	2 8.0	19.2
148849 2001 VF_{25}	15.7	X	171.43321	326.48176	49.63357	6.97665	0.0519374	0.21917773	2.7244056	21	3 8.2	19.7
148850 2001 VC_{27}	15.5	X	67.43613	33.29850	56.72591	7.52700	0.1536270	0.21306300	2.7762849	21	2 10.2	18.7
148851 2001 VR_{29}	16.1	X	171.00331	271.82204	105.64102	3.35628	0.2090677	0.27072575	2.3665536	21	3 12.0	19.8
148852 2001 VL_{31}	15.9	X	194.03131	321.15921	92.23076	2.96098	0.0694864	0.22643238	2.6658990	21	5 17.5	19.7
148853 2001 VJ_{34}	15.6	X	134.41213	15.30131	71.52805	6.57135	0.1933690	0.22156025	2.7048394	21	5 6.3	19.8
148854 2001 VP_{36}	15.8	X	139.26870	20.58452	25.31310	2.92237	0.1893041	0.21802686	2.7339845	21	3 20.6	19.9
148855 2001 VS_{38}	16.1	X	187.78848	122.55722	309.32726	1.84978	0.0189759	0.22881469	2.6473627	21	6 2.7	19.7
148856 2001 VU_{50}	15.6	X	144.67107	15.53067	7.87930	9.58296	0.1666493	0.21859139	2.7292753	21	2 26.5	19.8
148857 2001 VU_{52}	16.0	X	200.55242	69.19727	305.31715	5.60667	0.1495960	0.22574420	2.6713143	21	4 1.4	20.4
148858 2001 VH_{56}	15.3	X	40.49055	142.51041	323.15408	4.81086	0.0388740	0.21393390	2.7687451	21	1 9.4	18.8
148859 2001 VC_{57}	15.4	X	174.50212	294.37581	249.70384	14.71396	0.2458644	0.24167661	2.5525816	21	10 3.3	20.1
148860 2001 VK_{59}	15.3	X	67.16603	145.46139	38.20950	15.97569	0.0456439	0.22868848	2.6483367	21	5 24.9	18.9
148861 2001 VL_{60}	15.9	X	149.01584	104.92973	350.22546	2.91662	0.0554518	0.22727583	2.6592993	21	5 17.5	19.6
148862 2001 VD_{66}	15.4	X	151.39147	40.90207	48.74404	14.23237	0.1695047	0.22501974	2.6770448	21	5 21.5	19.7
148863 2001 VV_{66}	15.6	X	201.54097	322.31336	42.90984	9.16438	0.0963547	0.22225580	2.6991933	21	3 28.5	19.7
148864 2001 VP_{72}	16.1	X	220.68860	201.61884	348.71613	2.18957	0.1476077	0.25296160	2.4760894	21	12 6.1	19.5
148865 2001 VF_{76}	16.4	X	125.23736	196.35187	280.31758	2.00024	0.0230631	0.22547197	2.6734640	21	5 12.7	20.0
148866 2001 VQ_{81}	15.7	X	81.56318	6.08342	68.93884	10.84579	0.2432667	0.21370362	2.7707337	21	3 1.4	19.1
148867 2001 VR_{88}	15.7	X	197.04650	354.48422	91.13607	4.53875	0.0961165	0.23274944	2.6174413	21	6 30.9	19.6
148868 2001 VV_{90}	15.2	X	305.67670	168.05514	171.50652	11.47175	0.1677081	0.18569406	3.0427811	21	6 15.3	19.3
148869 2001 VL_{99}	14.9	X	119.42713	0.56820	98.17210	16.46933	0.2439727	0.22154062	2.7049992	21	5 15.8	19.4
148870 2001 VE_{103}	16.2	X	98.11682	84.34680	348.10470	3.00428	0.0629052	0.21666789	2.7454045	21	2 16.6	19.6
148871 2001 VC_{113}	15.8	X	129.18457	147.24652	267.10849	7.95456	0.1358681	0.21795046	2.7346234	21	3 9.6	19.9
148872 2001 VM_{114}	16.4	X	159.43598	56.87750	329.03083	1.81986	0.1956659	0.21953214	2.7214726	21	3 14.4	20.8
148873 2001 VV_{115}	15.9	X	134.28151	82.30843	341.46276	2.62294	0.1851173	0.21947250	2.7219657	21	4 4.6	20.1
148874 2001 VH_{116}	16.0	X	144.74876	83.71131	16.43850	3.71287	0.1460421	0.22459771	2.6803973	21	5 27.2	20.1
148875 2001 VZ_{116}	16.1	X	129.54580	94.46083	335.96785	2.51869	0.2115684	0.21926227	2.7237053	21	4 10.8	20.3
148876 2001 VS_{119}	15.7	X	180.88926	327.30669	47.01416	7.05463	0.0439382	0.21909532	2.7250888	21	3 16.2	19.7
148877 2001 VA_{124}	15.9	X	285.43534	1.41986	352.92878	3.98775	0.1084024	0.23367284	2.6105412	21	6 13.1	19.4
148878 2001 VC_{124}	15.7	X	85.67645	137.57021	316.54773	7.76793	0.0984519	0.21871410	2.7282544	21	3 1.6	19.2
148879 2001 VU_{125}	16.0	X	155.11159	131.40633	249.34441	4.08524	0.0894218	0.21733709	2.7397661	21	2 21.8	20.1
148880 2001 WL_{5}	15.7	X	128.71250	286.87736	123.11099	14.10480	0.1977260	0.22002805	2.7173819	21	3 19.9	20.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
148881 2001 WM_7	16.1	X	69.85245	22.39006	82.61699	4.55067	0.0492355	0.21708191	2.7419127	21	2 19.5	19.6
148882 2001 WQ_9	15.4	X	265.48350	325.22284	93.20143	13.28768	0.0851532	0.18611524	3.0381888	21	8 18.2	19.8
148883 2001 WP_{11}	15.4	X	269.94908	249.75612	116.34716	4.36377	0.0894208	0.18239461	3.0793665	21	6 13.3	19.8
148884 2001 WO_{14}	16.5	X	256.13065	357.37097	359.70287	3.72586	0.1767620	0.23018517	2.6368443	21	5 2.2	20.6
148885 2001 WV_{15}	16.9	X	122.50316	58.41128	57.64259	21.95430	0.0965154	0.37437479	1.9066237	21	5 10.7	18.7
148886 2001 WC_{19}	15.7	X	147.20542	297.31368	226.32128	14.23497	0.0760488	0.23652445	2.5895165	21	8 11.1	19.8
148887 2001 WQ_{19}	16.2	X	134.26500	291.92712	63.84313	1.23002	0.0819009	0.21335166	2.7737801	21	—	—
148888 2001 WJ_{20}	15.8	X	166.66865	225.32220	143.90913	3.45028	0.1949936	0.21933407	2.7231108	21	3 1.7	20.2
148889 2001 WL_{29}	15.5	X	106.21367	339.16110	86.86575	14.13314	0.1272575	0.21581442	2.7526378	21	3 6.9	19.5
148890 2001 WO_{30}	16.3	X	278.43236	240.37635	90.75777	4.41183	0.1097251	0.22986986	2.6392551	21	5 4.9	20.0
148891 2001 WZ_{30}	16.0	X	226.28375	246.08898	108.28907	5.20919	0.2009060	0.22662132	2.6644171	21	4 3.7	20.5
148892 2001 WY_{32}	15.7	X	104.79796	285.82908	105.00866	6.19157	0.1670041	0.21295114	2.7772570	21	1 19.6	19.2
148893 2001 WP_{34}	16.3	X	113.51255	297.99599	128.32904	4.21002	0.1841950	0.21728659	2.7401906	21	3 18.9	20.1
148894 2001 WX_{34}	16.0	X	314.54000	209.69633	91.09222	5.56613	0.1703815	0.23048688	2.6345427	21	5 4.6	19.2
148895 2001 WE_{38}	15.6	X	202.26764	314.83574	95.01710	10.32540	0.0952157	0.22758089	2.6569223	21	5 23.1	19.7
148896 2001 WQ_{42}	16.2	X	275.63313	180.40304	172.82733	2.46071	0.0634620	0.23212737	2.6221155	21	6 5.9	19.6
148897 2001 WN_{56}	16.4	X	140.33725	101.11593	31.28924	2.32781	0.0449610	0.23111455	2.6297705	21	6 25.5	19.9
148898 2001 WT_{57}	16.4	X	76.50065	274.62897	232.38631	3.66302	0.1782158	0.22354416	2.6888123	21	5 12.2	19.7
148899 2001 WD_{60}	15.8	X	45.39336	236.94640	53.44733	3.95651	0.1185840	0.24159277	2.5531721	21	10 5.9	18.8
148900 2001 WO_{61}	16.3	X	46.52213	211.85378	296.39628	1.50295	0.1242253	0.21836774	2.7311386	21	3 17.3	19.2
148901 2001 WR_{67}	16.3	X	70.30675	136.76362	69.43291	4.49959	0.0312902	0.23272431	2.6176297	21	6 30.9	19.7
148902 2001 WA_{68}	16.0	X	24.23767	105.64362	61.78413	3.37492	0.1854029	0.21854128	2.7296925	21	3 6.3	18.6
148903 2001 WX_{70}	16.8	X	126.48624	307.31481	175.88548	2.19449	0.1575035	0.22636066	2.6664621	21	6 8.8	20.8
148904 2001 WD_{89}	16.2	X	236.79502	188.99282	156.69205	2.53824	0.1022066	0.22600660	2.6692462	21	4 6.4	20.0
148905 2001 WA_{90}	15.5	X	35.83130	207.61739	283.01054	6.79701	0.1661917	0.21466083	2.7624908	21	2 2.8	18.4
148906 2001 WC_{91}	15.6	X	42.52943	132.43984	297.94186	5.35524	0.0380851	0.20840870	2.8174669	21	—	—
148907 2001 WA_{93}	16.2	X	38.48146	115.96991	21.81029	7.94900	0.2936584	0.21303924	2.7764912	21	3 4.2	18.2
148908 2001 XL_1	14.2	X	219.65715	117.38226	274.24018	15.32760	0.3293410	0.23042881	2.6349853	21	5 2.9	19.4
148909 2001 XA_2	14.9	X	208.28570	52.55165	333.68071	27.27212	0.1708443	0.22813216	2.6526403	21	4 9.2	19.8
148910 2001 XY_9	15.2	X	274.86852	214.12964	304.43097	8.17437	0.1181322	0.19860739	2.9094157	21	12 29.6	19.0
148911 2001 XX_{13}	15.7	X	158.86016	63.90297	287.76937	13.66943	0.1869056	0.21388621	2.7691567	21	1 30.1	20.2
148912 2001 XK_{18}	15.5	X	97.36213	150.46657	317.39599	8.58110	0.1102294	0.21765627	2.7370870	21	4 4.3	19.4
148913 2001 XE_{34}	15.4	X	177.85076	164.19303	309.93263	10.90614	0.1034891	0.23136279	2.6278892	21	7 18.4	19.3
148914 2001 XX_{35}	15.7	X	144.13160	17.54276	342.74892	8.19081	0.1444334	0.21420364	2.7664202	21	1 26.3	19.8
148915 2001 XR_{36}	15.3	X	309.55635	27.16934	302.27908	10.94528	0.1628950	0.23305824	2.6151288	21	6 4.9	18.7
148916 2001 XF_{41}	15.3	X	117.98450	49.27866	341.33128	9.49195	0.1573054	0.21187149	2.7866838	21	2 5.3	19.1
148917 2001 XL_{48}	14.5	X	57.92322	134.33946	315.50338	9.87936	0.1330754	0.21470949	2.7620735	21	1 19.9	17.5
148918 2001 XJ_{50}	15.9	X	79.47306	26.42418	78.29672	3.27527	0.1227169	0.21665892	2.7454803	21	3 14.4	19.3
148919 2001 XG_{51}	15.9	X	208.00143	334.69103	82.37087	3.09755	0.0275673	0.22929056	2.6436986	21	6 8.8	19.4
148920 2001 XB_{54}	15.9	X	231.01290	332.25270	95.17532	6.60667	0.1506989	0.18221886	3.0813462	21	7 9.6	20.7
148921 2001 XO_{69}	15.3	X	140.72527	246.53602	136.43266	9.70158	0.1856388	0.21583777	2.7524393	21	2 22.5	19.5
148922 2001 XW_{72}	16.0	X	240.84913	169.00897	178.82491	2.31796	0.0385105	0.22387965	2.6861255	21	4 19.1	19.6
148923 2001 XH_{73}	15.9	X	229.52848	256.08770	121.65175	2.03538	0.1179685	0.22801689	2.6535343	21	5 8.2	19.8
148924 2001 XL_{73}	15.7	X	103.12563	355.18633	152.13060	2.60044	0.0227778	0.22677877	2.6631837	21	5 25.7	19.3
148925 2001 XD_{75}	16.0	X	234.26543	295.63631	96.13257	4.77303	0.1143911	0.22995569	2.6385983	21	5 31.4	19.9
148926 2001 XR_{75}	15.4	X	72.78183	183.87193	78.80065	8.26051	0.1928208	0.24254439	2.5464895	21	10 18.1	19.1
148927 2001 XM_{77}	15.8	X	23.26063	99.54790	76.60103	10.86789	0.0075558	0.21983826	2.7189457	21	3 21.9	19.6
148928 2001 XW_{79}	15.7	X	133.66712	283.70283	121.50916	4.53231	0.0917835	0.21546977	2.7555724	21	3 3.8	19.6
148929 2001 XN_{89}	15.8	X	127.18788	170.66655	288.93269	2.02765	0.0435920	0.22452924	2.6809422	21	4 24.9	19.6
148930 2001 XN_{90}	16.3	X	192.21910	136.82923	353.13230	1.89543	0.1185046	0.23563153	2.5960543	21	8 22.2	20.3
148931 2001 XA_{92}	16.1	X	88.55301	86.44970	25.25562	1.97072	0.0251957	0.21999801	2.7176293	21	3 20.6	19.6
148932 2001 XR_{92}	15.4	X	353.72847	299.29331	27.68953	3.23475	0.1383990	0.23900894	2.5715400	21	8 31.5	17.9
148933 2001 XZ_{99}	14.7	X	156.73121	314.99827	87.78834	14.77135	0.1961595	0.21837700	2.7310613	21	4 9.7	19.4
148934 2001 XO_{101}	15.4	X	0.96764	4.45649	35.95545	3.74831	0.1648055	0.19595493	2.9356115	21	12 18.3	18.8
148935 2001 XU_{106}	16.5	X	41.93032	65.05208	67.85063	1.94017	0.0679754	0.21547396	2.7555366	21	2 16.1	19.7
148936 2001 XL_{113}	15.4	X	22.27840	196.43999	112.10413	6.22558	0.2165694	0.23968342	2.5667135	21	10 11.9	18.1
148937 2001 XK_{114}	15.4	X	46.78547	29.77203	35.34129	6.42014	0.1225367	0.20572620	2.8419056	21	—	—
148938 2001 XB_{117}	15.4	X	11.86744	23.81779	70.47754	9.23404	0.1762955	0.20228356	2.8740589	21	—	—
148939 2001 XT_{123}	16.2	X	92.95505	333.05391	101.60032	2.92644	0.0805272	0.21555814	2.7548191	21	2 15.6	19.6
148940 2001 XF_{126}	16.1	X	237.65743	3.46111	94.58578	2.52081	0.1624759	0.18617360	3.0375538	21	8 23.2	20.8
148941 2001 XC_{131}	16.2	X	208.25582	197.55326	175.44122	3.12477	0.1130525	0.22399797	2.6851795	21	4 10.8	20.3
148942 2001 XC_{138}	15.8	X	309.82035	93.28487	116.20010	4.71054	0.0361717	0.21271931	2.7792745	21	1 20.1	19.5
148943 2001 XA_{139}	15.6	X	341.30680	205.06461	95.67133	7.85259	0.0820696	0.23088750	2.6314943	21	6 28.8	18.5
148944 2001 XW_{141}	15.7	X	8.36991	354.37733	94.98198	3.11004	0.0406127	0.20494296	2.8491417	21	—	—
148945 2001 XS_{144}	15.8	X	81.79224	224.14992	215.87318	3.77222	0.0428915	0.21298507	2.7769620	21	1 31.7	19.5
148946 2001 XE_{148}	15.9	X	100.66938	317.14089	111.51188	4.73460	0.0769196	0.21414488	2.7669263	21	2 18.4	19.5
148947 2001 XA_{151}	15.8	X	4.20744	283.19364	253.32285	6.47612	0.1673697	0.21265433	2.7798406	21	2 4.9	19.0
148948 2001 XQ_{154}	15.6	X	340.78108	236.87835	85.74654	5.90213	0.2388477	0.23537290	2.5979557	21	7 19.9	17.5
148949 2001 XM_{159}	15.8	X	143.39608	234.90497	154.00323	2.03949	0.2197456	0.21580410	2.7527256	21	3 6.6	20.2
148950 2001 XX_{163}	16.2	X	28.01847	290.44315	220.56188	2.53810	0.0314469	0.21435170	2.7651462	21	2 17.3	19.7
148951 2001 XB_{167}	16.0	X	101.44683	137.33070	258.42843	3.19320	0.2083800	0.21098718	2.7944650	21	1 26.8	19.5
148952 2001 XD_{179}	15.1	X	286.72981	121.93865	280.46821	15.43670	0.1086668	0.18378992	3.0637612	21	8 12.4	19.5
148953 2001 XE_{188}	15.9	X	112.11286	291.29604	108.81286	9.74422	0.1588381	0.21055086	2.7983242	21	2 10.1	19.7
148954 2001 XX_{203}	15.5	X	209.99009	307.87151	84.66657	16.99902	0.0606169	0.22685000	2.6626262	21	5 13.3	19.5
148955 2001 XQ_{204}	15.9	X	60.46119	190.43271	150.76953	5.48046	0.1642363	0.25054808	2.4919653	21	—	—
148956 2001 XC_{205}	15.7	X	104.24461	284.33737	114.48042	11.87098	0.2761550	0.21298071	2.7769999	21	2 15.6	19.5
148957 2001 XD_{205}	16.3	X	87.61406	288.53187	121.91190	10.16733	0.2896123	0.21178987	2.7873997	21	2 9.5	19.5
148958 2001 XM_{216}	16.2	X	52.61884	79.62042	74.99283	4.35362	0.1355862	0.21722926	2.7406727	21	4 10.1	19.2
148959 2001 XU_{222}	16.7	X	214.17840	34.76361	1.38984	3.38731	0.1087911	0.22854743	2.6494262	21	5 14.5	20.8
148960 2001 XY_{222}	15.8	X	115.25670	128.83360	61.09794	13.30042	0.2236437	0.23133006	2.6281370	21	9 4.2	20.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
148961 2001 XM_{224}	15.7	X	154.82220	259.48360	124.45492	7.38211	0.0663384	0.21829209	2.7317695	21	2 26.5	19.6
148962 2001 XU_{224}	15.5	X	7.94828	291.24848	264.52030	11.63056	0.0943230	0.21908038	2.7252126	21	3 10.0	19.0
148963 2001 XW_{225}	15.2	X	33.05081	283.28237	256.04991	9.44425	0.0903916	0.22006046	2.7171151	21	3 31.3	18.6
148964 2001 XF_{226}	15.8	X	198.34065	278.18815	64.64946	5.95493	0.0104027	0.21697735	2.7427935	21	2 23.9	19.7
148965 2001 XK_{227}	16.3	X	135.14632	338.31985	52.84155	2.90510	0.1079044	0.21570064	2.7536057	21	2 17.9	20.2
148966 2001 XT_{228}	16.1	X	292.37235	347.48963	317.01949	3.03609	0.0661775	0.22520400	2.6755844	21	4 21.6	19.7
148967 2001 XV_{231}	16.0	X	79.65709	355.42229	13.70641	1.97608	0.0950582	0.20467148	2.8516606	21	—	—
148968 2001 XN_{233}	16.2	X	95.65387	19.58648	62.77990	4.45549	0.0663231	0.21571736	2.7534635	21	2 28.5	19.8
148969 2001 XY_{233}	15.8	X	116.46258	301.52039	24.45253	2.13815	0.0913859	0.20357145	2.8619242	21	—	—
148970 2001 XG_{235}	16.0	X	139.81565	329.21256	64.84070	4.80470	0.1010305	0.21591599	2.7517745	21	2 27.0	20.0
148971 2001 XZ_{236}	15.7	X	108.22356	60.53448	275.43096	5.36239	0.0702081	0.20320775	2.8653381	21	—	—
148972 2001 XN_{237}	15.5	X	276.95254	44.05736	309.41878	3.74242	0.2191405	0.23282283	2.6168912	21	5 14.7	19.4
148973 2001 XP_{249}	16.0	X	192.13946	202.92508	173.95976	1.66465	0.0733884	0.22181201	2.7027923	21	3 29.6	19.9
148974 2001 XD_{250}	16.1	X	117.02081	167.75188	231.93592	2.65714	0.0991664	0.21237339	2.7822916	21	2 4.1	20.0
148975 2001 XA_{255}	11.1	X	25.57532	90.75538	105.89864	12.60992	0.6754728	0.00633333	28.9321855	21	7 24.0	23.8
148976 2001 XN_{264}	15.9	X	2.56034	191.05238	92.69376	4.15754	0.0619653	0.23335801	2.6128887	21	7 10.6	18.9
148977 2001 YX_{21}	15.6	X	30.97735	110.65004	43.36439	8.03633	0.0567041	0.21716018	2.7412539	21	3 2.3	19.1
148978 2001 YO_{24}	16.8	X	158.99005	3.59592	5.38131	1.60393	0.1295430	0.21671566	2.7450011	21	2 17.7	20.8
148979 2001 YH_{27}	15.4	X	77.02704	84.48256	69.86193	10.14297	0.0468758	0.17228018	3.1987417	21	5 8.7	19.8
148980 2001 YA_{33}	16.1	X	129.24880	91.09285	297.54345	3.06371	0.1085190	0.21405001	2.7677438	21	2 6.7	19.9
148981 2001 YU_{34}	16.2	X	290.51406	317.02551	308.73856	0.77957	0.0174821	0.21833580	2.7314049	21	3 8.9	19.8
148982 2001 YS_{38}	16.2	X	208.41210	334.27753	32.94515	3.38176	0.0185623	0.22080127	2.7110343	21	4 5.7	20.0
148983 2001 YT_{39}	15.9	X	191.43572	37.82438	16.32953	1.80604	0.0593202	0.22514293	2.6760682	21	5 14.6	19.8
148984 2001 YA_{41}	16.2	X	85.91924	56.16536	53.03566	3.43190	0.1576118	0.21653290	2.7465455	21	4 3.6	19.7
148985 2001 YF_{43}	15.9	X	190.29075	313.15615	66.47851	3.10556	0.1008207	0.22084917	2.7106423	21	4 1.9	20.0
148986 2001 YO_{47}	16.0	X	101.47895	104.40714	312.16769	3.42885	0.0605500	0.21228144	2.7830950	21	1 31.9	19.7
148987 2001 YC_{48}	15.9	X	148.91632	290.88376	56.02789	2.46831	0.2365259	0.21223572	2.7834946	21	1 23.4	20.4
148988 2001 YR_{67}	15.8	X	314.71177	332.76453	293.68122	5.74326	0.0416452	0.21889465	2.7267539	21	4 3.9	19.6
148989 2001 YM_{73}	15.8	X	112.73832	325.81191	96.92732	8.59177	0.0695876	0.21264171	2.7799506	21	2 27.8	19.7
148990 2001 YX_{92}	16.4	X	149.67660	126.43690	329.50533	4.52864	0.1029537	0.22939038	2.6429316	21	5 22.9	20.4
148991 2001 YH_{98}	15.8	X	86.92289	308.64705	164.16366	2.33224	0.0279833	0.21827087	2.7319466	21	3 20.3	19.3
148992 2001 YS_{100}	15.8	X	126.64671	139.17194	246.38819	2.67092	0.1046005	0.21181232	2.7872028	21	1 30.3	19.7
148993 2001 YA_{101}	15.5	X	190.99966	248.46864	115.30209	7.24781	0.0374223	0.21706822	2.7420280	21	3 14.3	19.5
148994 2001 YT_{121}	15.5	X	100.85203	59.52562	353.89750	6.21773	0.0652930	0.21315028	2.7755269	21	1 29.4	19.2
148995 2001 YL_{122}	15.6	X	354.60328	162.32003	16.22764	7.50922	0.0592584	0.21258642	2.7804326	21	2 9.0	19.2
148996 2001 YA_{123}	15.5	X	191.38066	347.23942	2.18028	4.94415	0.1253148	0.21796426	2.7345079	21	2 25.9	19.7
148997 2001 YU_{126}	15.5	X	61.41850	170.23362	303.83875	8.42623	0.1099437	0.21303719	2.7765091	21	2 21.6	18.9
148998 2001 YF_{127}	15.6	X	123.04584	7.46519	39.99568	5.20381	0.0678687	0.21321962	2.7749252	21	2 20.1	19.4
148999 2001 YF_{128}	15.7	X	12.14999	48.28323	52.10077	11.60061	0.1252138	0.20520248	2.8467389	21	—	—
149000 2001 YM_{130}	15.4	X	300.37226	222.88374	321.86688	8.54624	0.1828901	0.20252919	2.8717346	21	—	—
149001 2001 YJ_{136}	15.3	X	46.99616	113.96988	9.64558	11.51851	0.0956755	0.21514403	2.7583530	21	2 16.9	18.7
149002 2001 YM_{139}	15.4	X	194.90154	317.52358	131.27216	10.06313	0.2126831	0.17676828	3.1443665	21	6 30.1	20.8
149003 2002 AB_{1}	15.4	X	235.56262	58.62342	312.95367	10.50340	0.2725858	0.22971522	2.6404394	21	4 20.9	20.2
149004 2002 AR_{11}	16.0	X	121.49060	160.15802	141.57240	2.85921	0.0829049	0.19461158	2.9491052	21	—	—
149005 2002 AY_{15}	14.4	X	288.78905	128.41142	312.35210	12.42478	0.0309498	0.18674797	3.0313224	21	10 13.6	18.8
149006 2002 AS_{16}	15.0	X	208.79425	125.58100	35.79575	4.89120	0.1012647	0.18589981	3.0405355	21	10 15.3	19.5
149007 2002 AJ_{32}	15.5	X	289.25323	350.77979	103.61900	3.67596	0.2562143	0.19017210	2.9948254	21	10 9.1	19.1
149008 2002 AW_{36}	15.9	X	72.33497	326.57448	124.44761	6.04894	0.1291011	0.21239366	2.7821146	21	2 14.1	19.2
149009 2002 AG_{42}	15.7	X	94.57896	39.67306	172.87545	3.41019	0.1184698	0.22560561	2.6724081	21	8 23.5	19.6
149010 2002 AX_{43}	16.3	X	173.17391	289.78448	135.49919	3.51385	0.0814647	0.22150104	2.7053214	21	5 10.7	20.3
149011 2002 AR_{44}	16.2	X	351.82870	303.59781	182.14699	2.55078	0.1172825	0.20294187	2.8678402	21	—	—
149012 2002 AA_{45}	15.7	X	280.44975	183.44404	245.33990	0.99339	0.1335657	0.18572798	3.0424106	21	9 8.9	19.8
149013 2002 AL_{46}	15.8	X	21.87917	299.88806	134.37978	2.84317	0.0409411	0.20031401	2.8928672	21	—	—
149014 2002 AQ_{46}	15.8	X	303.40621	26.31432	171.46310	1.96395	0.0386893	0.20552843	2.8437283	21	—	—
149015 2002 AY_{52}	14.5	X	159.32686	231.64525	301.16152	7.01856	0.2152095	0.17872885	3.1213294	21	9 7.1	19.9
149016 2002 AP_{61}	15.1	X	247.78530	65.14303	169.75224	5.55196	0.1382434	0.19808589	2.9145198	21	—	—
149017 2002 AU_{61}	14.1	X	175.73954	352.91729	144.59801	28.87779	0.1293736	0.17557843	3.1585562	21	8 11.9	19.2
149018 2002 AL_{75}	15.8	X	177.65013	355.04912	43.45449	1.27993	0.2290532	0.17048847	3.2211136	21	4 18.7	21.2
149019 2002 AC_{82}	15.6	X	65.68356	352.09472	135.17239	10.97813	0.1967920	0.21417895	2.7666328	21	4 6.3	18.9
149020 2002 AL_{87}	15.7	X	27.76979	18.59397	151.94928	8.56551	0.1370783	0.21211802	2.7845243	21	3 19.0	18.6
149021 2002 AS_{95}	15.5	X	235.57681	24.86582	107.60572	11.83068	0.0491131	0.18751996	3.0229970	21	10 21.2	20.0
149022 2002 AB_{109}	15.7	X	59.28489	352.45834	41.49858	2.53350	0.0881147	0.19968108	2.8989770	21	—	—
149023 2002 AR_{115}	15.3	X	203.35787	241.88624	320.05417	10.22144	0.0090756	0.19125334	2.9835274	21	12 5.1	19.6
149024 2002 AH_{119}	15.1	X	243.36281	1.59254	89.49324	3.22748	0.1218480	0.17948391	3.1125693	21	8 25.4	19.6
149025 2002 AU_{123}	15.8	X	342.90914	140.13526	357.81998	1.57231	0.1703459	0.20114857	2.8848601	21	—	—
149026 2002 AR_{124}	15.8	X	356.86937	129.10068	332.49120	6.60395	0.1140128	0.19867415	2.9087639	21	—	—
149027 2002 AR_{125}	15.3	X	156.52528	158.03070	142.57864	13.57624	0.0412122	0.19605169	2.9346455	21	—	—
149028 2002 AU_{128}	16.3	X	266.10613	2.79885	320.64328	20.63704	0.0739005	0.36896816	1.9252041	21	3 15.6	18.9
149029 2002 AW_{149}	15.6	X	163.06008	141.50048	65.11700	3.34666	0.0275919	0.18752553	3.0229371	21	10 24.7	19.8
149030 2002 AB_{155}	14.9	X	217.98093	32.98950	141.11786	21.15993	0.1224080	0.18649152	3.0341007	21	11 13.1	19.9
149031 2002 AL_{156}	15.7	X	98.72919	340.27737	107.74422	5.37858	0.0833714	0.21514697	2.7583279	21	3 14.7	19.4
149032 2002 AB_{163}	15.5	X	70.41241	284.82899	150.71894	12.55589	0.0865965	0.20534216	2.8454479	21	1 17.1	19.1
149033 2002 AA_{169}	15.1	X	176.96739	60.58177	332.99316	7.84720	0.1472646	0.22057379	2.7128979	21	4 3.1	19.6
149034 2002 AH_{169}	15.7	X	128.09487	92.39801	309.01382	7.92244	0.1555202	0.21367438	2.7709865	21	2 25.4	19.7
149035 2002 AV_{170}	15.4	X	272.00192	339.57186	76.54561	1.48030	0.0527754	0.18138765	3.0907526	21	8 25.2	19.5
149036 2002 AM_{176}	14.9	X	148.26297	291.60579	315.78755	6.73754	0.1418551	0.18761237	3.0220042	21	11 24.8	19.9
149037 2002 AW_{176}	15.1	X	16.23939	26.49147	326.39357	9.33260	0.1007029	0.18658625	3.0330737	21	10 28.6	19.1
149038 2002 AA_{178}	15.8	X	236.91922	350.44993	102.38184	2.42969	0.1274092	0.17959028	3.1113402	21	8 19.2	20.4
149039 2002 AZ_{193}	15.8	X	221.72188	224.43396	111.98593	7.99983	0.1133355	0.21491985	2.7602709	21	3 13.7	20.2
149040 2002 AG_{194}	16.0	X	161.58157	68.60400	98.06053	2.68688	0.0148119	0.18059810	3.0997542	21	9 2.8	20.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
149041 2002 AM_{198}	16.1	X	136.41381	86.90769	258.83106	1.06087	0.0762320	0.20469795	2.8514147	21	—	—
149042 2002 AQ_{199}	15.4	X	131.50096	227.28607	105.86396	16.53664	0.1566854	0.20253689	2.8716618	21	—	—
149043 2002 AT_{208}	15.1	X	188.87583	86.06216	75.67824	12.88845	0.0837401	0.17970556	3.1100094	21	10 1.9	20.0
149044 2002 BV_{3}	15.5	X	81.63575	65.54085	10.71754	11.54461	0.2473584	0.21080899	2.7960395	21	3 2.5	18.8
149045 2002 BE_{4}	15.4	X	44.13410	147.64932	5.54326	13.91669	0.1991003	0.21336349	2.7736776	21	3 28.2	17.9
149046 2002 BU_{11}	15.0	X	258.51403	180.33385	310.81047	9.44482	0.0456497	0.18821038	3.0155995	21	11 7.9	19.4
149047 2002 BE_{15}	15.4	X	78.32333	197.21486	140.34088	10.56030	0.0840496	0.19265336	2.9690556	21	12 30.6	19.9
149048 2002 BP_{15}	15.7	X	342.02168	264.78633	192.61903	1.37647	0.0491606	0.19544198	2.9407458	21	—	—
149049 2002 BP_{16}	15.0	X	177.38266	119.43097	150.07518	10.79128	0.0738239	0.19340728	2.9613348	21	—	—
149050 2002 BN_{24}	14.9	X	105.89213	162.73898	103.44637	12.32490	0.0361446	0.18708709	3.0276581	21	11 4.8	19.4
149051 2002 CU_{7}	14.9	X	256.38304	203.48385	329.77201	2.98982	0.0867308	0.19147552	2.9812190	21	12 25.1	18.9
149052 2002 CK_{12}	16.8	X	78.99689	259.27371	328.08843	19.82100	0.0202012	0.37826572	1.8935265	21	8 19.2	18.3
149053 2002 CW_{12}	14.5	X	20.33023	38.18865	3.47404	13.40152	0.3633057	0.19715922	2.9236451	21	—	—
149054 2002 CS_{16}	15.7	X	43.33244	328.86922	97.20839	3.41144	0.0733927	0.20299812	2.8673104	21	—	—
149055 2002 CK_{18}	15.2	X	345.05265	300.90694	66.70268	10.17848	0.0730657	0.18307460	3.0717367	21	10 7.8	19.2
149056 2002 CF_{20}	15.0	X	103.56817	119.57645	133.94329	11.26249	0.0608880	0.18186140	3.0853826	21	10 19.2	19.7
149057 2002 CC_{30}	15.0	X	156.45790	145.45008	87.78559	9.04814	0.1732560	0.18639814	3.0351140	21	11 18.6	20.1
149058 2002 CU_{32}	14.7	X	170.28631	196.87609	348.87435	12.30468	0.0593128	0.18295136	3.0731160	21	10 2.4	19.5
149059 2002 CB_{35}	15.3	X	210.32774	8.54716	105.46769	11.03768	0.0715462	0.17875971	3.1209702	21	8 23.9	20.1
149060 2002 CA_{51}	15.3	X	342.79264	271.57233	145.24143	10.66214	0.0887482	0.19028546	2.9936359	21	12 4.9	19.2
149061 2002 CA_{57}	15.1	X	113.39775	275.57500	319.75505	4.10509	0.1111816	0.17879046	3.1206124	21	10 6.1	19.9
149062 2002 CK_{59}	15.5	X	124.67467	57.25696	155.16274	1.66728	0.1339801	0.17666776	3.1455591	21	9 23.7	20.3
149063 2002 CL_{59}	15.2	X	148.05850	203.18604	348.78083	6.01092	0.1402731	0.17745674	3.1362286	21	9 20.7	20.3
149064 2002 CW_{63}	15.2	X	198.45855	138.65791	40.89770	8.43286	0.1063247	0.18526484	3.0474789	21	10 26.0	19.8
149065 2002 CV_{68}	15.5	X	111.19591	223.64842	109.74670	3.40612	0.0451789	0.19677426	2.9274570	21	—	—
149066 2002 CW_{68}	15.9	X	321.51091	17.70813	97.95281	3.14353	0.0650398	0.19592784	2.9358821	21	—	—
149067 2002 CA_{70}	15.5	X	39.40398	42.42176	328.56476	9.51780	0.1166626	0.19295916	2.9659178	21	12 30.9	19.7
149068 2002 CS_{71}	15.3	X	6.36419	257.45802	122.47105	11.82775	0.1221488	0.18925670	3.0044747	21	11 27.5	19.2
149069 2002 CD_{72}	15.8	X	133.30552	279.77006	45.73480	2.28780	0.0094055	0.19763422	2.9189587	21	—	—
149070 2002 CM_{72}	15.3	X	101.14023	357.34478	316.26470	9.59275	0.0927578	0.19131450	2.9828915	21	12 27.9	19.9
149071 2002 CP_{72}	15.4	X	36.23826	215.96578	136.79874	11.23363	0.0550564	0.18839941	3.0135821	21	11 26.8	19.7
149072 2002 CV_{76}	15.2	X	138.58093	316.62562	326.43839	9.75649	0.0465911	0.19133843	2.9826428	21	12 28.8	19.7
149073 2002 CA_{78}	15.5	X	237.28099	165.60256	55.37086	2.84496	0.0503725	0.19614467	2.9337181	21	—	—
149074 2002 CN_{78}	15.2	X	300.84478	50.17820	335.10728	10.00169	0.1160840	0.17923484	3.1154522	21	8 16.2	19.1
149075 2002 CK_{79}	15.4	X	116.34367	47.49927	333.27937	7.93545	0.0378235	0.20241479	2.8728165	21	1 6.5	19.4
149076 2002 CG_{80}	15.3	X	263.20895	132.28121	345.63883	7.65009	0.0482223	0.18631098	3.0360604	21	10 28.3	19.6
149077 2002 CX_{81}	15.9	X	302.67480	7.75712	112.83802	2.78208	0.1110708	0.19231854	2.9725006	21	12 21.9	19.6
149078 2002 CB_{85}	15.2	X	348.10244	265.70365	129.42503	9.83375	0.0632097	0.18879197	3.0094032	21	11 15.4	19.2
149079 2002 CQ_{85}	14.9	X	101.16568	136.02934	119.87109	11.72615	0.1636616	0.18190793	3.0848565	21	10 30.2	19.9
149080 2002 CK_{88}	15.6	X	310.04473	256.10525	133.18144	3.04512	0.0624097	0.18062288	3.0994707	21	9 10.3	19.7
149081 2002 CK_{89}	15.1	X	3.11097	5.14019	337.67852	9.49679	0.0429177	0.18070363	3.0985473	21	9 23.1	19.2
149082 2002 CQ_{93}	15.0	X	84.91779	194.60251	81.66114	2.66569	0.1388184	0.18082793	3.0971272	21	10 31.1	19.6
149083 2002 CD_{95}	15.6	X	302.05842	317.06553	145.62083	4.45340	0.1377176	0.18999090	2.9967293	21	11 25.9	19.2
149084 2002 CE_{100}	15.4	X	178.20608	19.50238	102.25554	2.60239	0.1581894	0.17294923	3.1904869	21	7 26.4	20.5
149085 2002 CT_{112}	15.3	X	54.06693	15.61452	326.49864	7.45318	0.0574655	0.19238778	2.9717873	21	12 3.2	19.5
149086 2002 CM_{116}	15.2	X	254.70971	121.82858	40.01835	10.76027	0.0474448	0.18988572	2.9978358	21	12 12.9	19.4
149087 2002 CC_{122}	15.7	X	97.85016	239.79716	144.87141	15.60386	0.1561268	0.20334001	2.8640955	21	1 2.8	19.6
149088 2002 CJ_{122}	15.4	X	328.62444	319.67903	145.33868	12.69067	0.0067800	0.19442083	2.9510339	21	—	—
149089 2002 CA_{131}	15.6	X	336.60328	94.20520	294.76116	8.31150	0.0799218	0.18556727	3.0441670	21	10 13.3	19.6
149090 2002 CL_{132}	16.0	X	324.72542	195.86237	310.45990	0.95624	0.0703860	0.19757169	2.9195745	21	—	—
149091 2002 CW_{136}	14.9	X	270.06417	244.49171	147.57181	16.58936	0.1019363	0.17829930	3.1263406	21	7 14.2	19.6
149092 2002 CH_{144}	15.3	X	308.45864	148.37763	318.14071	7.76204	0.0423546	0.19033586	2.9931074	21	12 16.6	19.3
149093 2002 CK_{145}	14.9	X	213.33412	285.87341	323.22784	4.06905	0.3385527	0.18973327	2.9994414	21	—	—
149094 2002 CT_{155}	15.3	X	70.45295	242.64164	2.99368	5.03781	0.1022496	0.17696316	3.1420575	21	9 1.7	19.7
149095 2002 CQ_{156}	15.9	X	303.02382	148.18802	346.78948	1.56875	0.0512828	0.19601248	2.9350369	21	—	—
149096 2002 CS_{158}	15.5	X	291.58531	359.77230	105.55180	3.40279	0.0461045	0.18816079	3.0161293	21	11 22.7	19.4
149097 2002 CO_{159}	14.6	X	116.91131	85.63154	158.02947	13.86031	0.1965697	0.17760885	3.1344378	21	10 30.9	19.9
149098 2002 CY_{164}	14.8	X	15.81799	222.78562	349.68314	13.08637	0.1380950	0.21349498	2.7725386	21	4 17.1	17.9
149099 2002 CA_{173}	15.4	X	219.41031	120.09036	1.60081	11.28976	0.1104145	0.17952491	3.1120954	21	9 8.3	20.1
149100 2002 CH_{174}	15.2	X	236.08080	94.80578	131.72518	10.79581	0.2062670	0.19184200	2.9774210	21	—	—
149101 2002 CP_{179}	16.0	X	213.21157	201.52015	127.56527	2.92278	0.0633556	0.21042676	2.7994244	21	2 23.1	20.2
149102 2002 CB_{198}	15.8	X	290.51308	96.55356	326.68636	1.64962	0.0797898	0.18306779	3.0718129	21	9 23.2	19.7
149103 2002 CH_{203}	15.4	X	279.72700	56.87924	336.48911	4.29016	0.1470199	0.17761990	3.1343078	21	7 22.9	19.8
149104 2002 CK_{205}	15.3	X	96.15461	144.66228	145.40155	10.41365	0.0776423	0.18534877	3.0465588	21	11 24.3	19.9
149105 2002 CX_{205}	15.7	X	349.99222	296.38320	118.25211	0.30525	0.0224485	0.18910568	3.0060740	21	12 7.1	19.7
149106 2002 CD_{206}	15.3	X	16.41211	356.53460	355.86968	3.96073	0.1605010	0.18463867	3.0543651	21	11 7.1	19.0
149107 2002 CD_{208}	15.5	X	291.18047	269.77073	141.20242	8.96924	0.1500349	0.18099644	3.0952046	21	8 30.6	19.5
149108 2002 CO_{209}	15.5	X	176.39706	130.08251	138.68778	11.40088	0.0198957	0.19354619	2.9599177	21	—	—
149109 2002 CD_{211}	15.3	X	165.80530	107.80778	120.12077	3.10816	0.0884557	0.18553581	3.0445110	21	11 20.7	20.1
149110 2002 CO_{216}	15.5	X	255.32711	293.27319	157.09720	5.51417	0.1117213	0.17988034	3.1079945	21	9 7.7	19.9
149111 2002 CJ_{219}	15.2	X	137.83864	190.17734	14.05593	5.48257	0.0835279	0.17746953	3.1360780	21	9 24.3	19.8
149112 2002 CU_{233}	14.9	X	30.90855	311.03233	340.92352	10.09944	0.0287844	0.17474112	3.1686381	21	8 28.5	19.2
149113 Stewartbushman	15.6	X	59.32919	175.25857	150.90695	2.33376	0.0985519	0.18823719	3.0153132	21	11 26.8	19.8
149114 2002 CX_{259}	14.8	X	300.17593	96.09520	281.59875	12.96942	0.0688349	0.17972019	3.1098406	21	8 6.6	19.1
149115 Lauriecantillo	15.5	X	29.14045	200.25386	138.65844	11.17861	0.1266045	0.18518826	3.0483190	21	11 10.2	19.6
149116 2002 CA_{285}	15.5	X	72.25394	140.57843	268.84997	0.97359	0.0643428	0.20059607	2.8901548	21	—	—
149117 2002 CC_{300}	16.1	X	110.10686	140.90302	237.27166	0.99526	0.0368891	0.20319180	2.8654881	21	—	—
149118 2002 CS_{310}	15.3	X	204.73449	107.48830	75.56955	5.50826	0.0962520	0.18489497	3.0515417	21	11 6.9	19.9
149119 2002 DX	15.2	X	153.24855	67.40111	174.96449	2.95596	0.1354432	0.18340799	3.0680131	21	11 24.8	20.1
149120 2002 DL_{2}	16.7	X	327.93119	207.25779	113.42971	24.62916	0.0667473	0.37463842	1.9057292	21	7 8.1	17.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
149121 2002 DZ_{7}	14.9	X	244.68562	151.30956	11.13459	15.98565	0.1493590	0.19145665	2.9814149	21	11 13.8	19.4
149122 2002 EM_{12}	14.4	X	109.87420	40.47706	188.24270	11.06135	0.1256574	0.17424231	3.1746826	21	9 26.9	19.2
149123 2002 EW_{15}	15.1	X	243.58711	164.92601	279.98765	8.86011	0.1021678	0.17700271	3.1415895	21	8 15.7	19.8
149124 2002 EF_{19}	14.8	X	185.68894	314.80130	222.58496	12.17917	0.0607951	0.18153034	3.0891327	21	10 9.9	19.5
149125 2002 EQ_{24}	15.8	X	261.02529	305.17870	161.21162	2.67145	0.0822547	0.18218827	3.0816911	21	10 9.6	20.1
149126 2002 EW_{25}	15.6	X	127.75863	289.54525	314.33374	0.48492	0.2099704	0.17916824	3.1162242	21	11 5.9	20.8
149127 2002 EK_{28}	15.1	X	291.18002	73.40062	1.45630	5.98899	0.1260863	0.18332543	3.0689342	21	10 2.8	19.2
149128 2002 EX_{28}	15.9	X	271.31156	88.88438	359.26023	14.96949	0.2499547	0.18277353	3.0751090	21	9 7.5	20.2
149129 2002 EQ_{49}	15.4	X	42.91812	269.81757	338.09790	4.27826	0.0789615	0.17024402	3.2241963	21	7 24.9	19.7
149130 2002 ES_{52}	15.2	X	107.17234	178.64857	42.48224	1.19170	0.1036718	0.17492830	3.1663773	21	9 13.6	19.8
149131 2002 EX_{59}	15.7	X	218.27858	306.93858	302.67381	0.90456	0.0569626	0.19518270	2.9433495	21	—	—
149132 2002 EA_{60}	15.2	X	177.21071	184.99297	338.65689	6.17273	0.0414678	0.17813107	3.1283086	21	9 15.1	19.7
149133 2002 ET_{61}	16.1	X	252.41844	303.90009	248.82114	1.14068	0.1515102	0.19164986	2.9794107	21	—	—
149134 2002 ES_{64}	16.0	X	260.63195	269.84637	202.09621	3.26490	0.1304306	0.18347871	3.0672247	21	10 8.3	20.3
149135 2002 EX_{70}	14.3	X	90.55703	285.12800	349.80723	10.67470	0.0870341	0.17799143	3.1299446	21	10 24.5	19.0
149136 2002 EE_{75}	15.3	X	197.81979	316.75639	198.84622	1.44965	0.1287019	0.17861945	3.1226038	21	9 23.9	20.1
149137 2002 ER_{86}	14.7	X	130.30034	184.72035	21.99237	12.50160	0.1626572	0.17443729	3.1723164	21	9 26.3	19.8
149138 2002 EV_{89}	15.1	X	192.63445	308.74104	291.60455	5.58767	0.2708560	0.18687716	3.0299251	21	12 19.3	20.4
149139 2002 EX_{93}	14.9	X	34.40062	227.01207	158.55525	10.70098	0.0697547	0.19032259	2.9932466	21	—	—
149140 2002 EQ_{95}	15.7	X	213.63145	130.53708	16.06830	5.70698	0.1192486	0.18184977	3.0855142	21	9 30.4	20.5
149141 2002 EO_{103}	14.8	X	220.58627	356.05745	101.47468	10.41088	0.0387909	0.17442587	3.1724548	21	8 17.4	19.4
149142 2002 EH_{104}	15.0	X	194.00425	152.16255	71.66130	6.97337	0.2651539	0.18445912	3.0563468	21	12 1.8	20.4
149143 2002 EA_{105}	15.1	X	185.05756	134.21972	73.97304	6.28252	0.1107460	0.18548428	3.0450749	21	11 15.6	19.8
149144 2002 ED_{117}	15.5	X	311.83175	219.92261	146.74780	8.25627	0.1122945	0.17412144	3.1761515	21	8 6.7	19.5
149145 2002 EJ_{120}	16.0	X	228.73834	133.64914	329.28962	4.30880	0.0669702	0.17756264	3.1349816	21	8 28.3	20.5
149146 2002 EO_{125}	15.0	X	156.03673	4.70833	157.23444	6.71450	0.0378200	0.17224313	3.1992004	21	8 19.7	19.7
149147 2002 EZ_{128}	15.6	X	207.64082	105.34629	54.05845	2.25461	0.0478203	0.18067504	3.0988741	21	10 15.8	20.0
149148 2002 EJ_{129}	15.1	X	114.07629	10.04828	259.15399	2.86000	0.1672980	0.17926257	3.1151309	21	11 21.2	20.2
149149 2002 EM_{141}	15.6	X	50.22855	173.08097	111.50420	2.73905	0.0929233	0.17601551	3.1533252	21	9 23.2	19.8
149150 2002 EO_{141}	15.7	X	228.87959	65.38060	10.27476	3.48127	0.1447174	0.17457413	3.1706584	21	7 18.8	20.6
149151 2002 EF_{148}	15.5	X	121.14535	176.40574	25.68640	4.37608	0.1146744	0.17357900	3.1827652	21	9 7.2	20.3
149152 2002 EE_{149}	15.4	X	88.24238	171.20512	74.86176	2.96462	0.0407699	0.17487584	3.1670105	21	9 15.8	19.8
149153 2002 FK	14.6	X	85.57364	38.30943	189.28405	4.95247	0.0869686	0.17006225	3.2264933	21	8 23.6	19.3
149154 2002 FL_{11}	15.9	X	171.47531	112.02406	89.57137	0.27416	0.1183419	0.18071321	3.0984378	21	10 24.4	20.6
149155 2002 FF_{12}	14.8	X	47.74564	251.71554	37.35157	4.37673	0.1528864	0.17379642	3.1801102	21	10 3.7	18.9
149156 2002 FS_{22}	14.6	X	114.70472	170.08493	66.48815	14.53780	0.1488594	0.17728799	3.1382185	21	10 19.5	19.7
149157 Stephencarr	16.0	X	289.27966	57.23093	342.78649	4.11806	0.1413768	0.17783929	3.1317295	21	8 14.4	20.0
149158 2002 FQ_{29}	15.3	X	225.04078	298.96267	245.65568	6.53704	0.0839167	0.18620449	3.0372179	21	11 30.8	19.8
149159 2002 FG_{33}	14.8	X	148.15379	135.44145	136.56087	17.22431	0.1854722	0.18524170	3.0477328	21	12 25.1	20.1
149160 Geojih	15.3	X	177.56791	26.24673	21.10708	4.51001	0.0706733	0.21161380	2.7889457	21	4 21.3	19.4
149161 2002 GW_{10}	16.8	X	228.07523	265.64694	197.79562	20.02776	0.0997825	0.37905956	1.8908819	21	9 3.9	19.0
149162 2002 GX_{10}	16.6	X	215.31951	27.78666	24.17152	21.15677	0.0867053	0.36946665	1.9234721	21	5 25.7	19.3
149163 Stevenconard	15.1	X	210.64564	9.87778	157.46661	6.39941	0.2126418	0.18243447	3.0789180	21	10 16.3	20.1
149164 2002 GX_{36}	15.3	X	150.26069	113.65790	67.66244	5.42982	0.0633127	0.17478567	3.1680997	21	9 10.6	20.1
149165 2002 GX_{54}	14.8	X	152.45748	131.42178	9.91386	9.83167	0.0415029	0.16783868	3.2549277	21	7 24.2	19.7
149166 2002 GL_{91}	15.1	X	311.41538	35.13880	13.20487	15.17283	0.2086439	0.17874096	3.1211885	21	9 22.5	18.7
149167 2002 GH_{105}	14.8	X	6.73251	287.22355	82.57178	10.48467	0.0266592	0.18059196	3.0998245	21	11 5.6	19.1
149168 2002 GR_{109}	14.9	X	74.18209	126.36437	152.69560	16.10102	0.0917940	0.17319565	3.1874599	21	10 19.2	19.6
149169 2002 GK_{122}	15.1	X	159.81137	95.65090	54.03853	5.98825	0.0816939	0.17044405	3.2216733	21	8 12.9	20.1
149170 2002 GT_{122}	15.0	X	195.55500	41.94296	55.73497	5.61161	0.1310342	0.16926208	3.2366540	21	7 14.1	20.2
149171 2002 GE_{146}	15.0	X	269.86893	23.08779	101.43550	10.10549	0.0269820	0.18532777	3.0467890	21	11 21.9	19.4
149172 2002 GH_{146}	15.4	X	180.74916	0.36356	127.55083	5.97246	0.0914051	0.17123154	3.2117880	21	8 5.7	20.2
149173 2002 HO_{13}	14.5	X	159.79525	79.49078	151.42737	26.52523	0.1835389	0.17782772	3.1318653	21	11 22.0	20.2
149174 2002 JX_{3}	14.6	X	152.60066	65.63849	133.11591	26.70351	0.1397195	0.17564931	3.1577064	21	10 11.2	20.1
149175 2002 JB_{4}	15.9	X	265.04565	270.65704	86.51256	23.64509	0.0973159	0.36642119	1.9341151	21	5 21.9	18.3
149176 2002 JN_{4}	16.4	X	244.44721	317.45827	106.26335	24.51229	0.0466626	0.37458120	1.9059232	21	8 11.6	18.5
149177 2002 JQ_{4}	14.4	X	148.12977	92.63776	123.04327	26.63261	0.2000792	0.17617449	3.1514279	21	10 30.9	20.2
149178 2002 JF_{40}	15.0	X	150.41021	292.74154	286.93289	3.13792	0.1834039	0.17800210	3.1298195	21	10 25.3	20.2
149179 2002 JV_{40}	14.6	X	110.40648	256.63144	359.31208	4.20180	0.1515827	0.17545791	3.1600025	21	10 31.2	19.7
149180 2002 JD_{60}	14.6	X	170.08950	181.35508	51.84071	16.77115	0.2072846	0.17844131	3.1246817	21	11 24.9	19.9
149181 2002 JU_{61}	16.9	X	283.94446	111.03051	138.61394	4.19858	0.1734702	0.29966260	2.2116396	21	1 6.8	20.0
149182 2002 JX_{69}	14.9	X	180.60424	96.79254	51.72643	25.90995	0.1950557	0.17379586	3.1801169	21	9 13.3	20.7
149183 2002 JV_{75}	15.3	X	201.44434	317.33873	216.38896	9.88051	0.0996136	0.18046045	3.1013303	21	10 20.9	20.1
149184 2002 JF_{81}	15.0	X	62.45224	256.33971	5.85240	6.00951	0.0934962	0.16998160	3.2275138	21	9 10.4	19.5
149185 2002 JA_{105}	16.8	X	278.43039	131.00965	106.49141	2.22568	0.1805452	0.29705510	2.2245630	21	—	—
149186 2002 JJ_{115}	16.2	X	185.68279	268.20832	147.14771	24.26617	0.1216713	0.36020698	1.9562963	21	5 10.6	19.4
149187 2002 JQ_{120}	17.1	X	276.77279	166.85082	98.41973	5.02509	0.1522204	0.30007273	2.2096239	21	1 21.9	20.2
149188 2002 JX_{144}	15.1	X	229.92936	99.94615	89.09527	20.64781	0.2159249	0.18387382	3.0628292	21	11 29.1	20.0
149189 2002 KU_{7}	14.3	X	68.49209	161.60862	124.02143	17.16100	0.1157069	0.17352897	3.1833768	21	10 26.6	19.2
149190 2002 LZ_{8}	17.2	X	129.00975	110.55744	175.95914	3.98278	0.2121630	0.28003991	2.3137837	21	—	—
149191 2002 LM_{12}	16.9	X	202.22259	144.12082	133.69469	4.61971	0.1550796	0.28922378	2.2645403	21	—	—
149192 2002 LH_{20}	16.3	X	238.77465	216.73785	81.91182	7.53240	0.2159474	0.29487183	2.2355301	21	1 27.9	20.0
149193 2002 LO_{27}	15.5	X	134.67538	48.45763	300.15999	10.72270	0.2788967	0.28338352	2.2955477	21	1 4.3	18.5
149194 2002 NF_{45}	16.6	X	155.28533	69.61460	274.13510	5.84615	0.1524628	0.28555170	2.2839130	21	1 3.3	19.6
149195 2002 PH	17.7	X	113.30339	75.28012	272.97234	1.86289	0.2348767	0.28034947	2.3120802	21	—	—
149196 2002 PR_{24}	17.0	X	173.12535	110.03494	149.72587	6.64680	0.1194553	0.27912769	2.3188221	21	—	—
149197 2002 PA_{29}	17.4	X	132.07062	92.85498	165.90749	5.38340	0.1820560	0.27361132	2.3498853	21	12 7.8	21.2
149198 2002 PZ_{31}	17.3	X	63.81121	97.44462	252.97657	2.52340	0.1564074	0.27307717	2.3529487	21	—	—
149199 2002 PH_{37}	16.1	X	212.37070	37.09819	316.51221	5.16400	0.2291570	0.29267296	2.2467132	21	3 12.0	19.9
149200 2002 PH_{42}	16.6	X	78.31913	231.48268	139.60290	4.65010	0.2703570	0.27359042	2.3500050	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
149201 2002 PC_{44}	16.3	X	42.93273	37.78881	342.53165	4.62270	0.2264971	0.26986516	2.3715822	21	—	—
149202 2002 PG_{63}	16.9	X	92.81597	153.03948	93.65600	2.08286	0.1031843	0.31752352	2.1279044	21	10 15.1	19.4
149203 2002 PW_{74}	16.4	X	148.97684	27.48573	339.05799	5.96307	0.1986946	0.28493331	2.2872163	21	2 1.9	19.6
149204 2002 PF_{83}	15.9	X	171.12860	59.86439	331.42220	8.43916	0.2054116	0.29204054	2.2499556	21	3 22.7	19.5
149205 2002 PU_{119}	16.0	X	239.66883	116.22662	202.91912	3.72788	0.0675275	0.24234966	2.5478534	21	3 5.5	19.7
149206 2002 PT_{129}	16.7	X	230.62961	301.00325	27.62725	6.32298	0.2221144	0.24138691	2.5546235	21	3 5.3	21.1
149207 2002 PB_{130}	17.2	X	50.92817	345.65471	334.27036	2.86399	0.0984206	0.31970055	2.1182333	21	12 1.3	19.7
149208 2002 PP_{159}	17.3	X	14.60840	298.82865	91.05472	3.37814	0.2286836	0.27004157	2.3705492	21	—	—
149209 2002 PH_{160}	17.7	X	348.32633	14.72652	354.78366	3.92509	0.1193625	0.31721780	2.1292714	21	11 5.9	19.3
149210 2002 QR_{23}	17.7	X	274.92883	260.21808	142.98400	3.05921	0.2279989	0.25581902	2.4576168	21	7 17.8	20.8
149211 2002 QN_{28}	16.5	X	202.13380	131.04576	103.78456	6.90235	0.1080551	0.28059239	2.3107455	21	—	—
149212 2002 QD_{60}	16.8	X	294.91349	129.76537	291.48828	8.60148	0.1776095	0.26167473	2.4208146	21	9 18.3	19.5
149213 2002 QN_{71}	17.3	X	68.49730	278.29863	346.34084	0.90092	0.0931260	0.26286696	2.4134893	21	9 29.6	20.3
149214 2002 QT_{84}	16.7	X	90.93116	324.34230	55.85769	4.70171	0.1885317	0.27883928	2.3204208	21	—	—
149215 2002 RX_{2}	16.7	X	75.91408	184.01211	119.77935	1.51594	0.1889673	0.26818589	2.3814717	21	12 11.5	20.3
149216 2002 RB_{16}	16.3	X	185.34571	139.68281	195.87525	3.63171	0.1469754	0.23483757	2.6019024	21	1 31.1	20.4
149217 2002 RS_{21}	16.8	X	77.71946	259.99693	153.61080	6.85230	0.2411752	0.27933460	2.3176769	21	—	—
149218 2002 RJ_{23}	16.8	X	318.73244	135.83107	174.25124	1.14135	0.1570708	0.25217429	2.4812404	21	5 23.7	19.5
149219 2002 RE_{33}	16.3	X	83.00684	115.23740	325.88640	5.61386	0.1282398	0.28526649	2.2854350	21	1 30.7	18.4
149220 2002 RL_{56}	16.8	X	314.34256	350.80987	281.37259	3.41382	0.1846827	0.29809830	2.2193700	21	3 9.6	19.4
149221 2002 RJ_{63}	16.1	X	82.69523	304.55685	75.35538	5.50689	0.1738328	0.27369680	2.3493961	21	—	—
149222 2002 RA_{64}	16.8	X	193.49725	253.07593	160.42667	6.08443	0.1589053	0.29515941	2.2340778	21	5 14.5	20.3
149223 2002 RM_{65}	16.0	X	91.62168	278.68715	65.38530	8.41526	0.3328144	0.27146254	2.3622695	21	—	—
149224 2002 RK_{78}	17.2	X	334.78106	192.69320	214.87365	0.49429	0.1815344	0.26422947	2.4051853	21	11 30.3	19.1
149225 2002 RC_{83}	15.6	X	56.50612	7.75851	29.26988	7.41698	0.1365180	0.27438518	2.3454649	21	—	—
149226 2002 RQ_{92}	17.1	X	224.05622	2.42900	350.53673	4.74308	0.0976120	0.29366375	2.2416570	21	3 24.8	20.3
149227 2002 RJ_{94}	16.6	X	90.16713	254.91194	151.74142	2.17168	0.2288349	0.27916230	2.3186305	21	1 8.8	18.3
149228 2002 RA_{102}	15.8	X	156.43740	5.57464	346.35715	2.94879	0.2189652	0.28213167	2.3023331	21	1 24.2	19.2
149229 2002 RC_{104}	16.1	X	88.33699	21.37895	3.97693	6.57052	0.1145515	0.27591049	2.3368127	21	—	—
149230 2002 RM_{108}	17.0	X	281.40739	123.32801	163.42007	0.91969	0.1617453	0.29584748	2.2306125	21	2 22.9	20.2
149231 2002 RK_{111}	16.3	X	227.07511	26.88667	338.50637	6.32424	0.1175347	0.29400501	2.2399220	21	4 11.0	19.6
149232 2002 RJ_{118}	16.4	X	30.02035	223.93203	170.78135	6.32179	0.2000294	0.26723580	2.3871129	21	—	—
149233 2002 RP_{118}	16.9	X	222.15312	297.31070	91.26441	4.68869	0.1305770	0.29896038	2.2151015	21	5 10.2	20.0
149234 2002 RE_{135}	17.3	X	214.01325	289.39002	107.33893	4.58363	0.1680800	0.29825346	2.2186002	21	5 11.5	20.7
149235 2002 RJ_{136}	16.1	X	305.09311	199.95683	79.92199	6.11398	0.1720541	0.29871594	2.2163097	21	3 15.5	18.9
149236 2002 RX_{147}	16.9	X	26.63209	151.86679	186.85802	1.74545	0.0988863	0.26396461	2.4067939	21	11 13.3	19.5
149237 2002 RE_{172}	16.6	X	31.50115	330.69964	93.92034	5.75067	0.2092794	0.27447153	2.3449730	21	—	—
149238 2002 RB_{179}	16.6	X	93.68231	46.18652	168.62164	3.23155	0.1520339	0.25707802	2.4495864	21	9 1.1	20.1
149239 2002 RO_{192}	16.9	X	177.73112	113.74780	351.95911	6.77002	0.0893949	0.30356746	2.1926328	21	7 7.5	19.9
149240 2002 RX_{207}	16.9	X	192.92417	104.12029	12.60821	6.26470	0.0299967	0.30821611	2.1705302	21	8 15.9	19.5
149241 2002 RA_{211}	15.9	X	53.66344	139.34400	275.89190	5.46819	0.0656482	0.27018142	2.3697310	21	—	—
149242 2002 RG_{224}	16.8	X	231.20116	283.35208	91.36449	7.82393	0.1702818	0.29887135	2.2155414	21	4 30.5	20.2
149243 Dorothynorton	16.7	X	341.77128	284.94720	203.15937	2.55967	0.1117269	0.27913122	2.3188026	21	—	—
149244 Kriegh	17.3	X	49.50684	312.94427	289.57025	3.71682	0.1068214	0.30839867	2.1696735	21	8 4.7	19.2
149245 2002 SJ_{23}	15.8	X	97.63276	98.49959	22.72490	12.11769	0.0502575	0.23996076	2.5647354	21	4 14.9	19.2
149246 2002 SH_{38}	17.0	X	230.96127	158.24016	129.07213	1.31167	0.2089323	0.28828871	2.2694344	21	1 7.3	20.5
149247 2002 SF_{39}	16.3	X	174.03390	21.13698	32.49028	10.06472	0.2001242	0.23957085	2.5675175	21	4 28.4	20.5
149248 2002 SY_{44}	16.9	X	32.03796	266.85296	5.60516	1.74959	0.0729290	0.30553353	2.1832165	21	8 17.6	18.9
149249 2002 SZ_{44}	17.0	X	76.74877	11.48183	72.28676	1.99997	0.1850348	0.28107084	2.3081225	21	1 31.9	18.8
149250 2002 SC_{49}	15.3	X	53.14076	140.05157	42.11824	10.75556	0.0781636	0.24199134	2.5503679	21	5 7.5	18.1
149251 2002 SL_{50}	16.3	X	182.97073	44.27150	38.07565	3.93038	0.0951090	0.29727348	2.2234734	21	6 8.9	19.3
149252 2002 TJ	17.0	X	359.73835	186.54313	181.50980	3.14343	0.1499252	0.26318591	2.4115390	21	11 18.4	19.3
149253 2002 TV_{4}	16.4	X	104.21805	329.41492	48.19859	5.40826	0.1793031	0.27774925	2.3264878	21	—	—
149254 2002 TQ_{6}	16.4	X	42.61472	349.05225	88.12334	4.24933	0.2190613	0.27415964	2.3467511	21	—	—
149255 2002 TX_{8}	16.7	X	78.52226	61.56174	28.66505	5.60583	0.1615010	0.28325576	2.2962379	21	2 12.5	18.8
149256 2002 TD_{14}	16.8	X	357.21982	262.57740	186.41692	6.27716	0.0819467	0.27181048	2.3602532	21	—	—
149257 2002 TH_{20}	16.6	X	153.15829	266.04399	204.23427	6.59851	0.0592225	0.29857133	2.2170253	21	6 11.1	19.5
149258 2002 TS_{25}	16.4	X	46.23296	104.25220	287.74618	0.77732	0.1067229	0.27090533	2.3655076	21	—	—
149259 2002 TQ_{29}	16.0	X	213.94543	358.85917	23.14377	3.95067	0.1249813	0.24151075	2.5537502	21	4 25.2	20.0
149260 2002 TW_{31}	16.0	X	48.41921	333.55746	35.09072	3.91911	0.0779760	0.26795395	2.3828458	21	—	—
149261 2002 TB_{33}	16.4	X	269.39054	196.67500	185.16326	9.46447	0.0411579	0.25148747	2.4857559	21	7 8.7	19.8
149262 2002 TY_{40}	16.1	X	146.67156	52.77017	20.15220	1.60791	0.2024981	0.23391036	2.6087737	21	4 28.9	20.2
149263 2002 TV_{42}	16.1	X	85.41503	77.81069	33.73845	7.18671	0.0515487	0.28670786	2.2777688	21	3 11.9	18.6
149264 2002 TK_{44}	16.1	X	12.40596	290.76111	152.02977	7.00796	0.0644062	0.27541547	2.3396119	21	—	—
149265 2002 TH_{53}	16.0	X	125.62415	241.51371	119.30923	4.33642	0.2627803	0.27720078	2.3295556	21	1 7.5	18.7
149266 2002 TE_{54}	17.1	X	128.01469	236.33616	112.91429	3.25785	0.2444070	0.27820962	2.3239206	21	—	—
149267 2002 TL_{58}	15.6	X	39.11447	125.52774	8.15790	23.38971	0.2618192	0.28131694	2.3067762	21	2 7.0	17.6
149268 2002 TP_{58}	17.3	X	115.70844	41.72674	347.83162	5.65143	0.1777555	0.28240451	2.3008499	21	1 19.7	19.8
149269 2002 TS_{58}	16.4	X	102.40013	13.12523	352.89480	7.54933	0.1218876	0.27556270	2.3387785	21	—	—
149270 2002 TG_{70}	16.4	X	81.97791	213.72035	228.41859	8.98814	0.1812350	0.28191695	2.3035020	21	2 3.1	18.7
149271 2002 TP_{73}	16.6	X	141.73404	140.21565	302.58186	6.08105	0.0605046	0.29163524	2.2520397	21	4 14.2	19.6
149272 2002 TC_{78}	17.2	X	160.54927	113.34571	287.38630	1.69804	0.0822981	0.28926758	2.2643117	21	3 16.1	20.3
149273 2002 TQ_{79}	15.9	X	206.57707	260.11608	70.19342	7.75047	0.1616778	0.28670801	2.2777681	21	2 10.6	19.5
149274 2002 TS_{79}	16.3	X	61.44689	272.58835	133.11723	6.86004	0.1518279	0.27368945	2.3494381	21	—	—
149275 2002 TW_{91}	16.7	X	273.32624	2.04406	313.61644	4.33864	0.0516303	0.29520036	2.2338712	21	4 5.0	19.6
149276 2002 TL_{109}	17.2	X	344.04204	217.76223	107.70556	4.24014	0.2159054	0.30946336	2.1646942	21	8 12.5	18.0
149277 2002 TS_{115}	16.4	X	170.84899	60.39350	314.77912	5.78348	0.1951870	0.28792903	2.2713239	21	3 3.0	19.9
149278 2002 TS_{118}	16.5	X	311.94597	351.10093	332.57357	7.36292	0.1842394	0.30291835	2.1957640	21	5 21.1	18.8
149279 2002 TP_{120}	16.8	X	115.73373	91.15337	329.61062	6.90250	0.0469828	0.28508889	2.2863841	21	2 9.6	19.4
149280 2002 TU_{126}	16.6	X	310.17507	246.18566	132.07480	6.53335	0.1146861	0.25688785	2.4507951	21	8 27.7	19.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
149281 2002 TB_{135}	16.2	X	82.02461	50.83492	320.70841	5.70945	0.1503590	0.27457442	2.3443872	21	—	—
149282 2002 TU_{138}	16.8	X	137.71689	85.81330	303.48673	6.21495	0.1099694	0.28338606	2.2955340	21	2 5.2	19.5
149283 2002 TT_{142}	16.8	X	93.13857	249.34766	96.24192	4.20088	0.2273570	0.27461731	2.3441430	21	—	—
149284 2002 TH_{143}	16.5	X	147.59344	338.65088	75.17261	7.16528	0.0885804	0.28901363	2.2656379	21	3 23.9	19.5
149285 2002 TV_{203}	16.0	X	123.21021	298.96455	77.54331	5.98255	0.2570688	0.28086619	2.3092435	21	1 24.9	18.9
149286 2002 TN_{204}	16.8	X	195.24813	284.94888	100.19311	6.31997	0.1030503	0.29294352	2.2453297	21	4 9.4	20.0
149287 2002 TV_{205}	16.4	X	198.90217	1.31384	353.41243	5.96562	0.2011231	0.28915517	2.2648985	21	3 4.6	20.1
149288 2002 TD_{211}	16.8	X	336.68334	6.47593	92.15612	1.74674	0.2016664	0.26666465	2.3905202	21	—	—
149289 2002 TH_{223}	16.6	X	170.16247	199.43396	225.76660	2.69067	0.1243015	0.23986780	2.5653980	21	5 6.9	20.3
149290 2002 TO_{226}	16.1	X	155.18094	221.53284	134.01535	5.25924	0.1938405	0.28149353	2.3058114	21	1 24.0	19.4
149291 2002 TJ_{228}	16.7	X	18.24556	328.33062	89.90259	6.44807	0.2231585	0.26828386	2.3808919	21	—	—
149292 2002 TS_{236}	16.2	X	334.55619	104.25814	266.42483	9.32245	0.2395470	0.25816101	2.4427309	21	9 20.7	18.1
149293 2002 TN_{238}	15.9	X	166.82605	306.53569	33.84513	5.64615	0.2023832	0.28141512	2.3062396	21	1 19.1	19.4
149294 2002 TS_{250}	16.4	X	75.53390	167.15611	212.52036	3.51341	0.1993481	0.27269282	2.3551591	21	—	—
149295 2002 TC_{252}	17.0	X	192.78787	271.13091	160.71142	6.84636	0.0873350	0.29840523	2.2178479	21	6 7.2	20.1
149296 2002 TC_{272}	16.8	X	192.99353	43.53599	353.65910	5.41800	0.1445290	0.29319742	2.2440333	21	4 18.6	20.1
149297 2002 TM_{280}	16.9	X	2.13930	145.92971	287.25085	4.60529	0.2174034	0.26765378	2.3846271	21	—	—
149298 2002 TS_{280}	16.3	X	318.66703	140.97178	285.56677	5.36857	0.1079368	0.26129916	2.4231337	21	11 22.5	18.7
149299 2002 TK_{281}	16.4	X	215.22406	17.05849	328.29566	4.64565	0.2056572	0.29030103	2.2589346	21	3 5.3	20.2
149300 2002 TK_{287}	16.4	X	93.35441	18.66897	6.79671	7.39925	0.1210205	0.27518785	2.3409019	21	—	—
149301 2002 TF_{292}	16.6	X	202.01659	6.01520	333.12255	4.48557	0.1448896	0.28663750	2.2781416	21	2 14.3	20.1
149302 2002 TJ_{292}	16.7	X	230.79808	352.56400	335.42942	4.15821	0.1811270	0.28942602	2.2634852	21	2 26.1	20.1
149303 2002 TT_{295}	15.5	X	168.37575	142.33809	330.35800	12.84703	0.1116171	0.24354264	2.5395263	21	7 7.9	19.5
149304 2002 TH_{297}	17.0	X	9.60004	230.07442	229.57558	3.28164	0.1975527	0.27164983	2.3611836	21	—	—
149305 2002 TL_{376}	16.3	X	303.48825	107.77362	187.77100	16.30230	0.2887069	0.24452398	2.5327272	21	3 20.5	19.8
149306 2002 UF_{1}	16.1	X	217.30078	264.07088	90.15350	7.16515	0.2018821	0.29214655	2.2494113	21	3 22.7	19.8
149307 2002 UQ_{1}	15.5	X	276.39135	220.93977	279.42029	3.20222	0.0391712	0.21325533	2.7746154	21	12 21.5	19.2
149308 2002 UE_{2}	16.4	X	162.90722	357.51978	23.01237	7.15411	0.1596781	0.28863117	2.2676389	21	3 3.6	19.7
149309 2002 UJ_{4}	15.0	X	124.14932	85.33138	331.70124	21.62729	0.0825661	0.23013508	2.6372269	21	2 27.8	18.6
149310 2002 UY_{19}	16.1	X	2.38971	294.54968	110.31656	7.45408	0.1421607	0.26329528	2.4108712	21	—	—
149311 2002 UR_{25}	16.9	X	284.56566	350.65024	350.47400	5.71380	0.1636506	0.29996986	2.2101291	21	5 9.7	19.7
149312 2002 UQ_{32}	16.4	X	327.78046	300.52912	23.04142	3.14005	0.2082957	0.30235449	2.1984931	21	6 20.8	17.9
149313 2002 UT_{32}	16.1	X	57.87659	313.76528	243.72881	5.70723	0.0414343	0.29465375	2.2366330	21	5 29.8	18.4
149314 2002 UX_{33}	15.4	X	126.88237	161.36070	271.01408	21.12965	0.0502015	0.22636873	2.6663987	21	3 9.2	19.6
149315 2002 UL_{34}	16.4	X	38.78453	338.91476	72.20209	5.63086	0.1233767	0.27072310	2.3665690	21	—	—
149316 2002 UF_{37}	16.1	X	116.24829	56.94938	31.77081	15.45514	0.1068300	0.23374236	2.6100236	21	4 8.6	19.6
149317 2002 UO_{49}	15.7	X	34.83429	85.04566	11.95717	10.41285	0.1989053	0.21989872	2.7184473	21	—	—
149318 2002 UW_{70}	16.2	X	54.25117	350.22814	129.45791	5.56038	0.1942182	0.22547986	2.6734017	21	2 26.7	18.6
149319 2002 VB	15.8	X	298.23715	98.26931	283.67585	5.96671	0.1707074	0.25177568	2.4838586	21	7 31.3	18.6
149320 2002 VG_{13}	16.3	X	39.02205	160.52194	253.70927	5.74463	0.1353862	0.27056739	2.3674769	21	—	—
149321 2002 VH_{15}	16.7	X	286.41036	139.78521	184.47776	2.10549	0.1998426	0.29684693	2.2256029	21	4 15.7	19.7
149322 2002 VM_{21}	16.8	X	264.47130	51.39838	307.81945	4.52558	0.1646405	0.29872233	2.2162781	21	5 10.7	19.8
149323 2002 VB_{22}	17.0	X	178.35479	104.22865	334.81957	3.38304	0.0803149	0.29462230	2.2367922	21	5 29.3	20.0
149324 2002 VZ_{26}	16.7	X	228.89269	294.14121	37.43970	3.57421	0.1182947	0.28826498	2.2695589	21	3 4.3	20.0
149325 2002 VY_{31}	16.5	X	137.00817	158.82528	194.00880	1.66004	0.2227426	0.27778476	2.3262895	21	1 4.8	19.6
149326 2002 VM_{36}	16.1	X	39.72444	344.07386	79.21405	6.83965	0.1848480	0.26950783	2.3736779	21	—	—
149327 2002 VP_{39}	16.6	X	339.99475	31.94381	78.89810	14.78849	0.1853135	0.26792460	2.3830198	21	—	—
149328 2002 VQ_{39}	16.7	X	276.69985	213.21001	132.78951	5.98053	0.1456442	0.29758226	2.2219351	21	5 13.8	19.6
149329 2002 VP_{42}	16.4	X	146.25618	42.43441	57.64181	3.88313	0.1787300	0.23885728	2.5726284	21	5 31.0	20.4
149330 2002 VD_{46}	16.5	X	289.84566	335.86651	91.55189	5.99224	0.0742666	0.25637104	2.4540877	21	10 12.2	19.4
149331 2002 VH_{50}	16.7	X	76.27287	288.99963	111.44289	4.53927	0.1664614	0.27437956	2.3454970	21	—	—
149332 2002 VR_{61}	16.8	X	166.59756	49.43403	345.62866	3.83895	0.0848474	0.28736584	2.2742906	21	3 16.7	19.9
149333 2002 VX_{62}	16.4	X	102.39184	36.26732	59.24608	7.12888	0.0625375	0.28630644	2.2798974	21	3 17.0	19.1
149334 2002 VK_{67}	16.0	X	309.40482	194.46393	294.84613	9.12895	0.2052481	0.26709783	2.3879349	21	—	—
149335 2002 VW_{68}	16.6	X	120.86051	264.88288	140.23335	8.10320	0.0932040	0.28021911	2.3127972	21	2 2.7	19.4
149336 2002 VS_{71}	16.9	X	105.68990	210.40297	179.98204	2.74866	0.1612321	0.27797206	2.3252444	21	1 1.9	19.3
149337 2002 VD_{78}	16.2	X	55.11664	12.66871	79.01626	7.75822	0.1460168	0.27655118	2.3332022	21	—	—
149338 2002 VV_{78}	16.7	X	70.68213	240.90117	127.12626	3.84357	0.2163206	0.27007627	2.3703461	21	—	—
149339 2002 VZ_{79}	16.4	X	238.51863	224.68551	134.86965	5.17036	0.1125987	0.29248263	2.2476878	21	4 21.3	19.5
149340 2002 VD_{86}	16.6	X	40.08679	59.97875	352.15831	5.00304	0.1679117	0.27155521	2.3617321	21	—	—
149341 2002 VZ_{88}	16.4	X	197.28405	42.44549	283.33325	5.08127	0.1912521	0.28355059	2.2946459	21	1 25.6	20.1
149342 2002 VD_{96}	17.2	X	77.00721	132.20097	329.17252	5.10248	0.1627492	0.28151562	2.3056907	21	2 24.0	19.3
149343 2002 VT_{96}	16.3	X	78.20702	327.99913	73.94496	7.07064	0.1011514	0.27376781	2.3489898	21	—	—
149344 2002 VT_{108}	16.8	X	98.37433	24.26418	356.82147	2.12573	0.2042893	0.27482145	2.3429821	21	—	—
149345 2002 VB_{121}	16.4	X	56.24211	38.07278	341.80856	5.96424	0.1448619	0.26849667	2.3796337	21	—	—
149346 2002 VF_{121}	15.3	X	20.39686	21.73963	355.17302	6.93475	0.1527601	0.20988361	2.8042520	21	12 20.6	18.9
149347 2002 VN_{127}	16.5	X	313.57150	122.51836	355.59177	2.46622	0.1790774	0.26383655	2.4075727	21	—	—
149348 2002 VS_{130}	6.3	X	64.14789	87.74800	275.49018	2.99828	0.1238507	0.00326478	45.0021449	21	12 13.6	22.6
149349 2002 VA_{131}	6.5	X	320.89285	254.17152	224.48221	7.07104	0.2379978	0.00358657	42.2684852	21	11 21.2	22.0
149350 2002 VR_{134}	17.0	X	98.31047	79.62281	3.64009	1.95689	0.1279423	0.28216958	2.3021269	21	2 28.9	19.4
149351 2002 WD_{8}	16.9	X	54.69587	171.32909	218.66097	2.02639	0.1754070	0.26922394	2.3753463	21	—	—
149352 2002 WJ_{15}	16.7	X	181.11967	225.28167	135.64101	7.22878	0.1364265	0.28422512	2.2910140	21	2 21.8	20.0
149353 2002 XN_{5}	17.0	X	27.78263	275.38801	146.56819	1.59721	0.1610353	0.26908728	2.3761505	21	—	—
149354 2002 XF_{19}	16.3	X	65.79186	287.53892	280.29354	5.95816	0.1157750	0.29650591	2.2273090	21	7 10.2	18.5
149355 2002 XO_{24}	17.1	X	19.47454	115.57878	287.06576	1.71719	0.1725911	0.26454638	2.4032641	21	—	—
149356 2002 XR_{28}	17.2	X	340.15858	176.18173	258.41602	1.41041	0.1528845	0.26176622	2.4202505	21	—	—
149357 2002 XP_{33}	16.7	X	81.86740	124.72159	276.24009	9.93635	0.1411470	0.27513558	2.3411984	21	—	—
149358 2002 XQ_{33}	16.5	X	71.74436	128.83047	275.85217	9.09052	0.1317298	0.27374444	2.3491234	21	—	—
149359 2002 XW_{35}	16.2	X	100.00340	127.20803	18.88081	7.21707	0.0854048	0.28969692	2.2620740	21	5 23.5	19.0
149360 2002 XD_{36}	16.2	X	243.59532	279.72875	82.45185	5.71521	0.3124023	0.24088182	2.5581933	21	4 19.9	20.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
149361 2002 XH_{36}	16.1	X	352.23889	82.71334	354.86892	5.76796	0.1091874	0.26208906	2.4182625	21	—	—
149362 2002 XZ_{41}	16.2	X	139.55300	31.12384	299.67090	6.34398	0.1215448	0.27260693	2.3556537	21	—	—
149363 2002 XD_{45}	16.5	X	3.98863	274.22490	214.31298	6.17832	0.0581669	0.27275646	2.3547927	21	—	—
149364 2002 XQ_{47}	16.1	X	333.59818	142.50590	348.31497	5.27501	0.1397454	0.26817588	2.3815310	21	—	—
149365 2002 XZ_{50}	16.6	X	37.13914	349.47931	98.63229	3.11121	0.1788521	0.27201321	2.3590803	21	—	—
149366 2002 XO_{52}	16.8	X	9.25497	296.07874	151.76681	1.33359	0.1549284	0.26714436	2.3876576	21	—	—
149367 2002 XT_{59}	16.6	X	48.98297	97.92712	319.65838	6.09180	0.1259904	0.27081113	2.3660561	21	—	—
149368 2002 XY_{62}	16.3	X	133.29176	288.14659	111.45461	6.90476	0.1121521	0.28036733	2.3119820	21	2 16.7	19.1
149369 2002 XU_{65}	15.8	X	83.59944	13.47673	40.29035	24.13363	0.2108419	0.27476577	2.3432986	21	1 5.8	18.4
149370 2002 XN_{67}	16.7	X	34.96874	272.71159	145.66908	7.86589	0.1589186	0.26980252	2.3719492	21	—	—
149371 2002 XR_{69}	16.4	X	259.82491	126.78716	75.97037	2.20141	0.1360647	0.26820329	2.3813687	21	—	—
149372 2002 XC_{71}	15.3	X	234.94410	254.34629	78.49173	7.90996	0.1443970	0.28538461	2.2848044	21	3 14.2	18.8
149373 2002 XW_{80}	16.3	X	19.41948	120.41429	353.45840	4.22787	0.1865924	0.27000401	2.3707690	21	—	—
149374 2002 XB_{81}	15.8	X	310.59692	90.78699	307.81744	12.10528	0.1843787	0.25117936	2.4877883	21	9 10.9	18.5
149375 2002 XK_{81}	15.7	X	209.09420	345.91889	83.07346	11.59901	0.2083812	0.23929015	2.5695249	21	6 16.9	19.8
149376 2002 XB_{86}	16.2	X	89.63701	64.05878	316.50332	6.03818	0.1563869	0.27142310	2.3624983	21	—	—
149377 2002 XT_{86}	16.5	X	351.79345	25.27841	8.53559	5.18813	0.1102830	0.25840951	2.4411645	21	12 3.7	19.1
149378 2002 XF_{94}	16.6	X	353.59728	280.09745	225.04727	5.64237	0.0517239	0.27552447	2.3389948	21	—	—
149379 2002 XE_{99}	16.6	X	44.02631	112.01595	262.64343	4.88025	0.1353566	0.26516212	2.3995422	21	—	—
149380 2002 YJ_{4}	16.6	X	50.30579	341.95807	114.05478	3.24592	0.1133058	0.27602319	2.3361766	21	—	—
149381 2002 YX_{9}	16.6	X	338.87146	47.64596	71.61307	3.08391	0.0692192	0.26542913	2.3979327	21	—	—
149382 2002 YJ_{10}	16.2	X	206.96348	217.96763	262.49942	2.69635	0.1237182	0.24511154	2.5286781	21	8 23.9	20.1
149383 2002 YM_{15}	15.9	X	224.43737	119.28952	99.42165	14.75446	0.1293266	0.25695511	2.4503674	21	—	—
149384 2002 YY_{19}	16.7	X	340.07020	322.19032	94.38490	2.52086	0.1750629	0.25946466	2.4345418	21	12 23.4	18.6
149385 2002 YS_{23}	15.9	X	111.60475	272.84146	108.13382	7.37211	0.1140370	0.27282133	2.3544195	21	—	—
149386 2003 AQ_{1}	15.6	X	99.45084	188.36562	292.79230	21.25002	0.0276076	0.22753797	2.6572564	21	4 2.9	19.8
149387 2003 AZ_{4}	16.2	X	351.53938	126.86274	258.77633	1.36154	0.1789044	0.25702325	2.4499344	21	11 29.9	18.4
149388 2003 AJ_{6}	16.1	X	338.52079	255.88492	164.86625	3.39632	0.1589128	0.25618650	2.4552660	21	12 23.6	18.3
149389 2003 AA_{8}	15.3	X	109.76769	199.25522	334.97376	17.58913	0.1742224	0.23135908	2.6279172	21	8 2.5	19.4
149390 2003 AN_{8}	16.3	X	239.57264	134.10296	93.30756	7.80125	0.0573953	0.26838080	2.3803186	21	—	—
149391 2003 AE_{11}	15.8	X	178.82755	284.57741	146.76583	10.30123	0.1430859	0.23719980	2.5845990	21	5 26.7	20.0
149392 2003 AS_{14}	15.7	X	120.59931	296.85079	252.49112	8.66830	0.1627409	0.23734145	2.5835705	21	8 23.6	19.9
149393 2003 AY_{23}	16.1	X	2.74264	292.39829	98.10452	15.67014	0.1656288	0.25967068	2.4332540	21	12 26.7	18.5
149394 2003 AD_{31}	16.3	X	147.70690	200.78032	323.11015	5.81242	0.2727470	0.23679624	2.5875347	21	8 24.6	20.7
149395 2003 AM_{37}	16.0	X	158.71430	159.20029	267.75441	6.78101	0.1067103	0.23171614	2.6252169	21	4 24.4	20.1
149396 2003 AU_{39}	16.0	X	198.09401	78.22946	155.21038	5.11774	0.0680554	0.25867556	2.4394904	21	—	—
149397 2003 AM_{41}	15.4	X	10.08669	172.76920	292.94530	13.05708	0.1368946	0.21207065	2.7849389	21	—	—
149398 2003 AW_{41}	15.8	X	149.51852	179.71322	294.51286	12.50927	0.1076062	0.23321913	2.6139258	21	6 17.7	19.7
149399 2003 AQ_{42}	14.7	X	67.21040	195.55129	283.81198	12.25164	0.1271535	0.22222907	2.6994097	21	3 5.7	18.2
149400 2003 AB_{50}	16.4	X	331.19320	187.50533	354.07680	2.05608	0.1587256	0.27034505	2.3687748	21	—	—
149401 2003 AH_{50}	15.8	X	78.20673	140.20352	93.90060	10.40710	0.0740164	0.24175487	2.5520307	21	8 31.3	19.3
149402 2003 AE_{53}	16.2	X	318.73393	339.18057	90.65820	3.75136	0.1450235	0.25540441	2.4602758	21	11 26.7	18.4
149403 2003 AU_{54}	15.5	X	202.69649	262.95327	109.75064	12.10517	0.3179713	0.23160097	2.6260871	21	4 8.9	20.6
149404 2003 AL_{55}	15.8	X	255.15650	204.72408	327.86597	6.06119	0.0912069	0.25796932	2.4439408	21	—	—
149405 2003 AD_{57}	15.1	X	147.77200	156.29673	329.80915	9.03523	0.1647835	0.18198298	3.0840083	21	7 5.6	20.1
149406 2003 AM_{57}	16.2	X	185.09417	85.69622	15.47584	4.49223	0.1917161	0.23869913	2.5737646	21	7 7.9	20.5
149407 2003 AO_{58}	15.2	X	353.19996	206.36473	330.38884	11.61603	0.1350908	0.21818616	2.7326536	21	1 24.9	18.5
149408 2003 AY_{59}	15.4	X	181.92239	134.36361	314.80121	15.22933	0.0705020	0.23547961	2.5971708	21	6 20.1	19.4
149409 2003 AF_{60}	15.7	X	74.39071	160.42140	325.22692	12.81591	0.1177720	0.22459733	2.6804003	21	3 24.8	19.2
149410 2003 AZ_{61}	16.2	X	214.40653	45.78701	36.54839	4.91944	0.1426445	0.24065503	2.5598003	21	7 13.5	20.2
149411 2003 AB_{67}	15.9	X	114.34601	106.22971	9.63111	11.68771	0.2380762	0.22791751	2.6543056	21	5 22.9	20.2
149412 2003 AA_{74}	15.5	X	316.31550	114.15925	34.61235	10.67523	0.2070068	0.26357966	2.4091368	21	—	—
149413 2003 AN_{92}	16.1	X	6.93881	241.77097	118.63842	3.40730	0.2049169	0.25494559	2.4632267	21	11 26.7	18.4
149414 2003 BH_{1}	16.1	X	56.22260	167.32271	316.12800	7.14339	0.0548599	0.27596783	2.3364890	21	2 10.1	18.6
149415 2003 BM_{8}	16.2	X	140.07822	323.54341	211.73705	3.05358	0.1305995	0.24018371	2.5631480	21	8 26.3	20.1
149416 2003 BM_{11}	15.5	X	83.39163	262.16024	341.49868	5.26737	0.1114003	0.24033470	2.5620744	21	9 19.9	19.0
149417 2003 BU_{11}	16.0	X	139.38189	57.41696	133.31733	10.52801	0.0802405	0.24145389	2.5541511	21	9 16.4	19.7
149418 2003 BD_{14}	15.7	X	102.56801	316.40162	250.79891	7.81699	0.1324794	0.23806984	2.5782981	21	8 24.9	19.5
149419 2003 BV_{17}	16.8	X	296.49215	14.68708	148.74856	1.86936	0.1323664	0.26135060	2.4228157	21	—	—
149420 2003 BC_{18}	16.1	X	224.61733	270.92060	137.86068	8.63777	0.1692958	0.23728687	2.5839667	21	6 8.8	20.3
149421 2003 BS_{18}	16.2	X	237.97405	113.77646	309.66779	13.97320	0.1788633	0.24146340	2.5540840	21	7 10.9	20.1
149422 2003 BA_{20}	16.0	X	51.13965	187.74962	337.90854	4.13673	0.1046001	0.22394247	2.6856232	21	4 14.6	19.2
149423 2003 BU_{20}	15.9	X	235.17540	2.33031	112.07630	7.05427	0.0613123	0.24425780	2.5345669	21	9 30.2	19.4
149424 2003 BT_{22}	15.4	X	79.91269	274.58819	241.83040	12.99674	0.0844345	0.22955353	2.6416791	21	5 14.4	18.8
149425 2003 BF_{27}	15.6	X	217.31896	240.52014	170.66252	6.09746	0.2910736	0.23749509	2.5824562	21	5 30.3	20.3
149426 2003 BN_{39}	15.9	X	258.16016	322.21301	275.61104	3.87788	0.1082418	0.21331215	2.7741226	21	—	—
149427 2003 BN_{43}	16.3	X	291.80623	207.67222	182.51618	3.07037	0.1224232	0.24577276	2.5241406	21	8 9.9	19.3
149428 2003 BM_{45}	15.9	X	260.32254	325.70162	117.49265	3.10452	0.0811165	0.19377224	2.9576152	21	9 11.2	20.0
149429 2003 BF_{48}	15.6	X	156.11104	350.88106	159.00994	6.26054	0.2051731	0.18360186	3.0658530	21	8 10.4	20.8
149430 2003 BH_{52}	15.8	X	88.30253	261.32873	303.32305	7.00791	0.1093411	0.23556843	2.5965179	21	8 4.4	19.1
149431 2003 BK_{52}	15.1	X	12.86075	345.30544	311.42081	13.94090	0.1456407	0.23848766	2.5752858	21	8 19.6	17.7
149432 2003 BU_{58}	16.1	X	87.34498	57.89668	111.01953	10.97595	0.1626178	0.22940349	2.6428309	21	6 24.2	19.7
149433 2003 BL_{66}	15.4	X	121.14059	53.25821	143.82528	14.07186	0.0914819	0.23845408	2.5755276	21	9 2.9	19.2
149434 2003 BM_{70}	15.6	X	306.59983	321.50918	329.18931	9.23603	0.1038262	0.22678592	2.6631277	21	4 13.4	19.3
149435 2003 BU_{72}	15.5	X	38.89967	117.30047	97.03645	13.99240	0.2062862	0.22751276	2.6574527	21	6 17.9	18.0
149436 2003 BL_{74}	15.8	X	228.91066	15.95329	86.18186	11.35528	0.0317165	0.24344038	2.5402374	21	9 11.9	19.4
149437 2003 BW_{76}	14.5	X	344.35204	318.18540	340.93605	30.21245	0.1993368	0.23473961	2.6026262	21	7 1.4	17.8
149438 2003 BV_{77}	15.6	X	344.32777	290.39262	310.33516	13.60302	0.0811020	0.22525473	2.6751826	21	4 1.5	19.2
149439 2003 BW_{81}	15.2	X	91.73409	251.65810	343.60860	11.00778	0.2503779	0.23388501	2.6089622	21	10 1.4	19.5
149440 2003 BD_{82}	14.8	X	278.69702	20.99155	330.86981	15.03246	0.1381965	0.23332131	2.6131627	21	5 23.2	18.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
149441 2003 BO_{87}	16.0	X	43.42300	179.65709	26.06598	6.88486	0.1530466	0.22761765	2.6566363	21	6 4.2	19.0
149442 2003 BE_{89}	16.6	X	149.21878	200.06728	321.20712	3.29821	0.1312153	0.23706399	2.5855860	21	8 18.5	20.5
149443 2003 BZ_{89}	15.9	X	152.39529	138.82103	320.03076	11.88740	0.1308177	0.23058543	2.6337920	21	5 31.1	20.2
149444 2003 CP_{2}	15.4	X	319.50916	193.55282	285.60611	23.95012	0.1999085	0.26251416	2.4156512	21	—	—
149445 2003 CQ_{5}	15.4	X	48.32289	294.09166	321.40882	14.06068	0.1570339	0.23741861	2.5830107	21	8 24.8	18.4
149446 2003 CC_{6}	15.9	X	357.05733	83.03302	78.63418	5.65241	0.0678120	0.21696346	2.7429105	21	1 17.7	19.3
149447 2003 CR_{7}	15.2	X	31.19095	229.09780	286.42813	13.41299	0.1330552	0.21993225	2.7181710	21	2 21.9	18.4
149448 2003 CJ_{9}	16.0	X	286.86276	222.36782	177.41410	4.02998	0.1598883	0.24512553	2.5285819	21	8 9.5	19.0
149449 2003 CE_{10}	14.9	X	28.80876	124.45842	142.50327	13.86386	0.3213915	0.22978846	2.6398783	21	9 8.9	17.4
149450 2003 CE_{14}	16.3	X	339.29815	20.88356	292.89403	5.98408	0.0380748	0.23661408	2.5888625	21	7 17.2	19.3
149451 2003 CF_{14}	15.9	X	41.72461	105.73301	154.57285	14.08148	0.0824713	0.23311450	2.6147080	21	8 10.1	19.1
149452 2003 CM_{17}	15.6	X	35.38147	130.24395	134.09677	13.36438	0.1755149	0.23262434	2.6183796	21	8 21.7	18.4
149453 2003 CW_{21}	16.9	X	200.98755	324.92302	163.12111	3.12828	0.1184294	0.24266280	2.5456610	21	8 28.8	20.7
149454 2003 DC	14.8	X	31.30451	79.99317	115.10450	27.91634	0.0844286	0.22471591	2.6794572	21	5 7.5	18.7
149455 2003 DX_{11}	16.0	X	119.61449	249.36894	340.66732	4.00755	0.1323772	0.24130180	2.5552242	21	10 14.2	19.8
149456 2003 DA_{13}	15.5	X	185.27946	315.66030	16.85280	3.97342	0.1004034	0.21239350	2.7821160	21	1 30.7	19.7
149457 2003 DS_{13}	15.6	X	19.62639	188.22747	279.60862	15.20958	0.1762177	0.21308479	2.7760955	21	—	—
149458 2003 DM_{15}	16.0	X	216.10963	78.78698	56.18989	7.26294	0.1879280	0.24378352	2.5378532	21	9 20.7	20.0
149459 2003 DC_{20}	15.5	X	334.54156	140.01359	158.95808	14.57993	0.0555340	0.23172128	2.6251781	21	6 18.6	19.0
149460 2003 DY_{20}	16.6	X	340.58882	43.24980	156.29588	2.75613	0.1651273	0.26967682	2.3726862	21	1 15.6	19.4
149461 2003 DQ_{21}	15.9	X	82.55793	82.43836	163.78925	13.13373	0.1217346	0.23781758	2.5801210	21	9 26.1	19.4
149462 2003 DO_{24}	16.0	X	140.94374	66.07171	146.81124	15.22838	0.0553063	0.24216537	2.5491459	21	10 18.1	19.8
149463 2003 EV_{4}	15.2	X	6.78973	229.74969	357.75696	10.71382	0.0873704	0.22388447	2.6860870	21	4 23.6	18.5
149464 2003 EP_{7}	15.1	X	336.82619	0.52109	326.15635	13.33473	0.1663785	0.23590795	2.5940260	21	7 26.1	17.6
149465 2003 EC_{8}	14.9	X	84.37079	310.91921	172.99147	15.56998	0.0720172	0.16985219	3.2291529	21	4 14.6	19.4
149466 2003 EP_{8}	16.0	X	260.51414	219.05019	203.12113	6.06211	0.2231525	0.24376666	2.5379702	21	7 25.1	19.7
149467 2003 EV_{8}	15.7	X	56.00208	231.76018	307.37550	8.53181	0.0443239	0.22723656	2.6596056	21	5 1.8	19.3
149468 2003 EO_{10}	16.5	X	144.37132	308.51310	203.31501	4.00199	0.2008987	0.23504117	2.6003996	21	8 3.5	20.9
149469 2003 EL_{12}	16.3	X	142.58508	238.97376	270.15426	2.58913	0.1690778	0.23294062	2.6160090	21	7 28.6	20.4
149470 2003 EU_{12}	16.1	X	358.56599	52.43524	179.88445	12.39136	0.1173198	0.22277344	2.6950103	21	4 21.3	19.1
149471 2003 EF_{13}	15.9	X	359.81267	306.46733	335.04729	3.70543	0.1371783	0.23236554	2.6203235	21	7 2.9	18.6
149472 2003 EA_{14}	16.5	X	160.63433	318.27729	161.84400	4.42003	0.1171976	0.23337565	2.6127570	21	7 6.8	20.5
149473 2003 EO_{15}	15.5	X	43.86298	212.62312	329.96010	10.91227	0.1042043	0.22302034	2.6930210	21	4 22.3	18.9
149474 2003 EA_{20}	16.1	X	58.55898	349.69889	241.34167	1.42722	0.1146580	0.23162683	2.6258917	21	7 31.1	19.3
149475 2003 EX_{21}	15.3	X	143.16555	11.22472	150.55296	13.94228	0.1929027	0.18139500	3.0906691	21	8 13.4	20.5
149476 2003 EK_{23}	15.7	X	350.40078	82.77028	116.75824	5.73095	0.0601347	0.21714590	2.7413740	21	2 27.9	19.1
149477 2003 EL_{24}	15.9	X	6.79055	90.13525	104.84164	3.56804	0.1733225	0.21852849	2.7297990	21	3 10.3	18.6
149478 2003 EQ_{24}	16.0	X	11.38128	229.70274	18.63831	4.34410	0.1591515	0.22691080	2.6621505	21	6 4.9	18.7
149479 2003 ER_{25}	16.4	X	55.02094	124.97413	83.62230	2.93613	0.1385468	0.22753932	2.6572459	21	6 27.8	19.4
149480 2003 EG_{29}	15.8	X	355.27143	152.11269	27.52564	4.99047	0.0927389	0.21487760	2.7606327	21	2 6.5	19.1
149481 2003 EC_{35}	16.3	X	157.19626	205.05188	289.11183	4.02377	0.2025542	0.23451397	2.6042953	21	7 24.5	20.7
149482 2003 EA_{36}	15.6	X	184.73748	320.42523	23.12996	5.99992	0.0181553	0.21440103	2.7647220	21	2 8.6	19.5
149483 2003 EN_{36}	16.4	X	139.97311	275.31939	165.54472	1.88905	0.3032514	0.22861442	2.6489086	21	5 11.5	20.9
149484 2003 EP_{36}	16.3	X	47.59066	21.08238	145.38353	2.93149	0.0555893	0.22252317	2.6970307	21	4 8.7	19.5
149485 2003 EB_{37}	15.2	X	315.04164	117.93995	87.84366	13.48009	0.1766574	0.21356913	2.7718968	21	1 1.7	19.1
149486 2003 EM_{37}	15.8	X	90.10389	54.79972	76.79393	13.59332	0.0890908	0.22455017	2.6807755	21	5 1.4	19.4
149487 2003 EU_{37}	15.0	X	64.85448	55.24798	165.36219	16.23439	0.1755420	0.17672645	3.1448627	21	8 1.1	19.4
149488 2003 EJ_{38}	15.3	X	162.23317	130.22170	314.91247	21.44711	0.0376560	0.22831529	2.6512218	21	5 13.4	19.6
149489 2003 EG_{45}	15.3	X	72.35895	102.33759	329.92463	12.44410	0.1448571	0.21308900	2.7760591	21	1 23.9	18.6
149490 2003 EB_{47}	15.1	X	242.56346	314.08962	269.94860	9.07569	0.3294673	0.20111905	2.8851423	21	—	—
149491 2003 EC_{48}	15.5	X	142.43686	277.08873	278.20241	10.51945	0.1217825	0.23879224	2.5730955	21	9 18.0	19.7
149492 2003 EK_{48}	15.5	X	141.46374	325.42904	169.26499	15.72700	0.1577345	0.23166162	2.6256288	21	7 7.8	19.9
149493 2003 EK_{49}	15.6	X	287.81548	301.82469	356.64154	5.77682	0.0362668	0.22161520	2.7043922	21	4 12.4	19.3
149494 2003 ET_{49}	15.7	X	153.30521	81.69362	359.39403	21.97919	0.0542438	0.22684396	2.6626734	21	4 25.1	19.9
149495 2003 EE_{58}	15.5	X	68.73257	117.28106	86.07884	14.38127	0.1280198	0.22953271	2.6418389	21	7 10.1	18.8
149496 2003 EJ_{60}	15.8	X	39.23379	68.98143	162.15684	13.36860	0.2128058	0.22608489	2.6686299	21	7 13.6	18.8
149497 2003 FJ_{9}	15.8	X	123.26082	35.73047	12.76325	4.37362	0.0667408	0.21294508	2.7773097	21	2 20.6	19.6
149498 2003 FZ_{11}	15.7	X	98.88088	61.25541	258.25032	1.06434	0.1182349	0.19466772	2.9485382	21	—	—
149499 2003 FP_{16}	15.0	X	19.66789	199.79773	52.78921	9.97424	0.2920219	0.22473793	2.6792822	21	7 17.9	17.1
149500 2003 FP_{17}	15.7	X	65.37324	122.53162	341.66572	5.32016	0.0403515	0.21534414	2.7566440	21	2 10.8	19.2
149501 2003 FV_{34}	16.2	X	78.84956	136.74118	23.77843	2.37501	0.0274416	0.22392215	2.6857856	21	5 10.2	19.7
149502 2003 FP_{35}	15.6	X	65.23429	156.85207	175.42389	1.77104	0.1613055	0.19175980	2.9782719	21	12 19.2	20.0
149503 2003 FP_{39}	16.2	X	106.29485	9.48092	299.53997	0.92881	0.0694323	0.19483241	2.9468763	21	12 25.9	20.5
149504 2003 FQ_{46}	15.5	X	26.55044	127.28287	145.54816	1.54263	0.1103209	0.17679583	3.1440398	21	8 4.8	19.2
149505 2003 FS_{49}	16.3	X	96.10979	354.37630	167.27101	4.03697	0.1956077	0.22664325	2.6642452	21	6 29.6	20.1
149506 2003 FF_{55}	16.3	X	31.12553	21.47026	197.01363	1.74030	0.1381789	0.22610606	2.6684634	21	5 30.7	19.0
149507 2003 FC_{57}	16.0	X	220.90541	325.98798	159.40692	10.64520	0.1948827	0.18935459	3.0034391	21	9 5.7	20.7
149508 2003 FN_{57}	15.5	X	192.61381	180.72376	138.76406	10.25895	0.1625040	0.20857394	2.8159786	21	1 23.6	20.2
149509 2003 FH_{59}	16.0	X	57.51075	325.42788	122.35627	4.21249	0.1511014	0.21271903	2.7792770	21	1 17.2	18.8
149510 2003 FB_{68}	16.0	X	140.29539	276.65162	112.96491	6.01418	0.0695190	0.21310963	2.7758799	21	2 17.7	19.9
149511 2003 FC_{68}	16.1	X	264.61291	181.30994	141.43045	5.89868	0.0658428	0.22041454	2.7142044	21	4 14.7	20.0
149512 2003 FK_{69}	15.7	X	234.75533	195.35376	124.51000	6.25062	0.0068059	0.21620516	2.7493203	21	3 11.7	19.4
149513 2003 FB_{71}	15.8	X	256.57392	192.47850	64.88829	4.89870	0.0561551	0.20959564	2.8068199	21	1 14.9	20.0
149514 2003 FJ_{71}	16.4	X	51.98966	98.70428	139.07170	2.98136	0.1531491	0.22894187	2.6463822	21	8 6.0	19.4
149515 2003 FA_{72}	15.3	X	301.50710	144.87730	90.79121	8.52630	0.0381195	0.21337009	2.7736204	21	2 13.5	19.2
149516 2003 FS_{73}	15.1	X	196.19960	338.38914	168.54801	16.02061	0.1798209	0.18549423	3.0449659	21	9 10.0	20.1
149517 2003 FF_{74}	15.5	X	331.77995	164.39267	85.98400	5.51578	0.2239940	0.21714589	2.7413741	21	3 17.8	18.7
149518 2003 FC_{82}	16.1	X	70.11988	6.67922	149.81861	3.02818	0.1374625	0.22259753	2.6964301	21	5 10.3	19.3
149519 2003 FA_{91}	15.0	X	345.80271	277.08768	320.83845	7.59038	0.1456890	0.21831880	2.7315466	21	3 29.0	18.1
149520 2003 FJ_{93}	16.2	X	188.44178	346.51237	150.74462	5.79502	0.2162197	0.23761788	2.5815664	21	8 23.9	20.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
149521 2003 FS_{93}	15.1	X	263.81028	131.44792	146.04902	13.25284	0.1011597	0.21015242	2.8018601	21	2 11.0	19.3
149522 2003 FT_{97}	15.9	X	103.16053	179.53490	297.74696	12.47377	0.2245518	0.22392051	2.6857987	21	5 11.1	20.0
149523 2003 FM_{106}	15.6	X	224.88958	191.70008	36.93554	6.33357	0.0188299	0.20124928	2.8838975	21	—	—
149524 2003 FH_{107}	15.6	X	91.47630	158.18737	50.82842	7.91381	0.2761822	0.22991370	2.6389195	21	9 8.2	19.8
149525 2003 FB_{111}	15.5	X	111.53113	231.61310	27.66465	12.83513	0.1354637	0.24388906	2.5371209	21	11 11.0	19.5
149526 2003 FE_{113}	16.3	X	56.66444	158.49026	345.41002	4.49314	0.1006656	0.22074508	2.7114943	21	3 25.4	19.6
149527 2003 FK_{117}	15.7	X	276.95608	181.60719	109.62029	5.39242	0.0674848	0.21957827	2.7210915	21	3 20.3	19.5
149528 Simónrodríguez	15.2	X	53.92917	162.50357	131.26778	18.25239	0.2013796	0.17862241	3.1225693	21	10 31.5	19.9
149529 2003 GR_{4}	16.5	X	122.41508	107.78893	33.14639	2.20550	0.1697360	0.22855023	2.6494045	21	6 28.6	20.5
149530 2003 GC_{6}	16.0	X	70.60728	146.54645	31.65486	9.66799	0.2480453	0.22391140	2.6858716	21	6 27.5	19.5
149531 2003 GO_{11}	15.8	X	197.14650	12.48372	351.18426	5.49002	0.0244153	0.22107271	2.7088147	21	3 17.3	19.4
149532 2003 GS_{14}	15.7	X	110.84623	26.67137	135.08023	8.71057	0.0675147	0.22963222	2.6410756	21	6 30.5	19.4
149533 2003 GK_{16}	16.0	X	27.41024	106.99530	88.24465	8.52228	0.0813035	0.22163128	2.7042615	21	4 21.2	19.3
149534 2003 GG_{23}	16.3	X	30.69103	156.70412	17.16138	9.63839	0.2084449	0.21801177	2.7341107	21	3 30.3	18.6
149535 2003 GS_{29}	15.8	X	6.09091	94.91644	97.27357	3.73555	0.0260370	0.21582727	2.7525286	21	3 15.5	19.4
149536 2003 GV_{41}	14.5	X	312.92554	105.82198	97.18495	9.00536	0.1565513	0.15739114	3.3974197	21	1 10.9	19.2
149537 2003 GE_{42}	14.6	X	92.60974	101.29799	165.64450	27.85975	0.3752758	0.23070270	2.6328994	21	11 25.1	19.9
149538 2003 GJ_{49}	15.9	X	355.28678	137.39662	49.30733	8.69765	0.1560940	0.21369852	2.7707778	21	2 10.7	19.2
149539 2003 GS_{50}	15.8	X	295.24547	140.32443	79.43925	6.00448	0.0728118	0.21037542	2.7998798	21	1 10.8	19.7
149540 2003 GY_{50}	15.5	X	12.90006	125.15931	105.81806	11.06751	0.0765140	0.22203734	2.7009634	21	5 16.9	18.8
149541 2003 HX_{7}	15.9	X	34.48752	105.44345	47.23954	4.69522	0.1023374	0.21389665	2.7690665	21	3 5.7	19.1
149542 2003 HO_{33}	15.6	X	246.65962	101.65714	41.30037	11.64393	0.0217856	0.18943865	3.0025505	21	11 13.7	19.7
149543 2003 HM_{47}	15.5	X	113.66179	185.25191	81.06979	3.42931	0.1955271	0.18628807	3.0363093	21	11 20.8	20.6
149544 2003 HY_{50}	14.5	X	47.65565	200.57429	87.52054	15.26455	0.1083675	0.17692560	3.1425023	21	10 3.7	19.0
149545 2003 HE_{52}	15.2	X	124.92840	175.96511	104.50716	11.44218	0.0885230	0.18733057	3.0250341	21	12 12.2	19.8
149546 2003 JP_{4}	15.9	X	321.43888	71.18788	155.69193	3.39676	0.0952409	0.21316796	2.7753735	21	2 16.9	19.4
149547 2003 JG_{7}	15.2	X	20.39037	182.46781	33.77915	13.42599	0.2302707	0.22280751	2.6947356	21	5 7.6	17.3
149548 2003 KY	14.4	X	33.05853	230.50067	66.20241	23.93262	0.0325076	0.17635020	3.1493342	21	9 21.2	19.2
149549 2003 KP_{1}	15.5	X	165.98286	142.89991	139.11601	11.14507	0.0965208	0.19341330	2.9612733	21	—	—
149550 2003 KH_{2}	15.2	X	102.37099	124.98883	125.61147	11.72381	0.0320768	0.18007191	3.1057899	21	10 11.3	19.8
149551 2003 KO_{7}	15.6	X	359.08775	88.45836	133.99011	9.98915	0.0966063	0.21714606	2.7413727	21	4 12.7	19.0
149552 2003 KL_{15}	16.5	X	11.63981	108.16887	45.35945	2.39296	0.1589322	0.21228075	2.7831010	21	1 22.4	19.5
149553 2003 KT_{15}	15.8	X	59.27980	132.54260	157.67159	0.54572	0.1546335	0.18126579	3.0921376	21	10 20.4	20.1
149554 2003 KF_{28}	15.6	X	282.08631	47.34226	74.15440	10.78554	0.1189208	0.19084375	2.9877947	21	11 21.9	19.5
149555 2003 KN_{31}	14.8	X	311.08093	310.81247	106.90930	14.89688	0.0608309	0.18262982	3.0767220	21	10 25.1	19.1
149556 2003 LJ_{2}	16.1	X	217.18740	140.57582	89.59086	1.41606	0.1483831	0.19619623	2.9332040	21	—	—
149557 2003 LW_{5}	15.4	X	55.49659	238.21031	76.32074	4.49924	0.2267044	0.23293354	2.6160620	21	12 2.5	18.9
149558 2003 NJ_{9}	14.7	X	100.11269	144.49293	164.88756	10.44642	0.0632973	0.18076948	3.0977948	21	12 17.2	19.4
149559 2003 OG_{1}	14.3	X	174.80110	254.41552	319.85022	15.19601	0.1891692	0.17924171	3.1153727	21	11 2.9	19.8
149560 2003 QZ_{91}	8.1	X	39.63039	138.12605	130.70329	34.74917	0.4790953	0.00363568	41.8869767	21	10 2.8	23.4
149561 2003 SJ_{219}	16.4	X	109.21350	157.77830	272.13166	17.54302	0.0874600	0.35807744	1.9640449	21	1 26.3	18.3
149562 2003 US_{13}	17.1	X	116.11339	118.42530	35.68941	21.51298	0.0695249	0.37012659	1.9211850	21	6 22.5	19.6
149563 2003 VF_{9}	16.2	X	90.86800	64.55647	64.25430	24.71109	0.1001665	0.35812112	1.9638852	21	4 23.2	18.4
149564 2003 WK_{7}	16.5	X	147.37599	328.84758	105.55610	24.30557	0.0785478	0.36277180	1.9470646	21	4 22.9	19.4
149565 2003 WH_{47}	17.6	X	291.17108	344.79662	244.86871	0.17686	0.0857780	0.29665887	2.2265434	21	—	—
149566 2003 WC_{122}	16.7	X	256.04497	182.87019	15.96033	6.50354	0.0499598	0.28364944	2.2941128	21	—	—
149567 2003 XG_{11}	16.4	X	271.07571	96.77513	341.24564	20.57092	0.0759879	0.37996317	1.8878829	21	10 1.9	18.3
149568 2003 YG_{4}	16.8	X	321.21480	79.88977	126.32285	5.95215	0.0943870	0.29407062	2.2395888	21	1 3.4	19.6
149569 2003 YJ_{47}	16.3	X	205.63639	339.94403	151.15317	3.14966	0.1057188	0.26029661	2.4293516	21	9 9.7	19.8
149570 2003 YW_{51}	16.2	X	274.83760	47.54471	92.75001	6.83223	0.0557704	0.27355832	2.3501888	21	—	—
149571 2003 YJ_{52}	15.3	X	7.15266	256.68390	284.20158	10.27794	0.2445007	0.23261473	2.6184517	21	2 1.4	17.7
149572 2003 YY_{92}	16.8	X	249.08670	262.07811	70.17688	2.82901	0.0156620	0.30244120	2.1980728	21	4 2.9	19.3
149573 Mamorudoi	16.9	X	60.38413	316.23087	286.48733	3.04335	0.0263232	0.30843375	2.1695090	21	8 8.9	19.2
149574 2004 BU_{30}	15.9	X	318.10163	204.50858	80.31613	2.25034	0.0967740	0.24151837	2.5536964	21	4 27.2	18.8
149575 2004 BA_{37}	17.2	X	87.20825	147.06810	94.72154	1.69775	0.1479856	0.31156340	2.1549561	21	10 5.9	19.9
149576 2004 BA_{43}	16.7	X	211.80102	333.81486	170.84358	7.77353	0.1546282	0.26037430	2.4288683	21	9 30.3	20.3
149577 2004 BH_{44}	16.0	X	310.63049	278.52261	338.06942	6.56491	0.0818805	0.29055166	2.2576354	21	3 1.9	18.6
149578 2004 BJ_{56}	16.6	X	288.98191	340.35581	173.33341	2.00314	0.1305910	0.27357977	2.3500660	21	—	—
149579 2004 BT_{79}	16.0	X	316.57582	6.79970	177.76226	6.68850	0.2201552	0.22428103	2.6829198	21	—	—
149580 2004 BQ_{97}	17.1	X	325.38229	307.63717	138.99537	6.72908	0.1338453	0.27238160	2.3569527	21	—	—
149581 2004 BF_{99}	16.6	X	294.97824	185.91138	124.78940	7.06888	0.1620809	0.29436610	2.2380899	21	4 16.7	19.4
149582 2004 BX_{104}	17.3	X	237.82457	2.13726	143.91332	2.77193	0.1504523	0.26650459	2.3914772	21	11 2.4	20.3
149583 2004 BK_{105}	16.9	X	344.79520	324.73898	128.36766	2.75076	0.1770147	0.27586612	2.3370633	21	—	—
149584 2004 BD_{108}	16.5	X	92.26168	100.85498	59.91441	3.60946	0.0857689	0.24412163	2.5355093	21	6 6.6	19.6
149585 2004 BV_{115}	16.9	X	10.12776	18.10311	130.34255	7.92404	0.0592313	0.28595923	2.2817425	21	1 1.3	19.4
149586 2004 CZ_{17}	16.7	X	282.65708	63.29764	122.84557	6.75200	0.0698482	0.27719253	2.3296018	21	—	—
149587 2004 CY_{18}	15.9	X	319.17422	234.02086	317.72055	12.39100	0.1211530	0.22847509	2.6499854	21	—	—
149588 2004 CC_{29}	16.3	X	325.46234	140.01366	134.53183	3.86291	0.0315398	0.24369753	2.5384501	21	5 3.7	19.5
149589 2004 CN_{35}	16.9	X	98.16584	109.27201	132.58853	3.70930	0.0607959	0.31164065	2.1545999	21	10 10.2	19.5
149590 2004 CO_{36}	16.3	X	213.19247	333.63821	281.24668	3.33100	0.1110860	0.27399312	2.3477019	21	—	—
149591 2004 CL_{51}	16.2	X	21.44088	335.38428	158.41858	6.74162	0.0477960	0.28354690	2.2946658	21	—	—
149592 2004 CU_{51}	16.0	X	89.49402	234.00335	147.50722	21.91580	0.3041124	0.28186485	2.3037858	21	—	—
149593 2004 CL_{69}	16.7	X	134.99934	25.89216	61.26581	4.08856	0.0648140	0.29580028	2.2308498	21	4 16.4	19.3
149594 2004 CR_{80}	15.0	X	284.83785	258.04654	67.47025	4.75644	0.2212666	0.24000860	2.5643946	21	4 19.1	18.6
149595 2004 CM_{85}	16.4	X	173.24804	153.01083	107.05092	3.40417	0.1716668	0.26816213	2.3816124	21	—	—
149596 2004 CC_{96}	16.1	X	216.50451	84.01800	154.97094	5.81769	0.1109061	0.21614277	2.7498494	21	—	—
149597 2004 CH_{103}	16.7	X	183.36953	121.22635	290.94184	6.36238	0.0764083	0.29784699	2.2206183	21	4 25.0	19.9
149598 2004 CP_{110}	17.1	X	40.70032	136.55364	122.68744	6.46744	0.0112136	0.30768905	2.1730081	21	8 2.1	19.5
149599 2004 CT_{128}	17.0	X	338.29558	264.62229	15.69466	3.61253	0.1565516	0.29829176	2.2184103	21	5 8.3	18.7
149600 2004 DH_{12}	16.4	X	336.98556	121.44654	74.24663	3.26201	0.0479136	0.28416973	2.2913117	21	1 21.2	19.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
149601 2004 DJ_{13}	16.1	X	302.46559	300.54782	334.73623	6.59814	0.1965701	0.28698468	2.2763039	21	2 28.2	19.0
149602 2004 DS_{15}	17.2	X	95.66571	156.02667	18.75530	3.70085	0.0891229	0.30103124	2.2049310	21	7 1.7	19.8
149603 2004 DG_{16}	16.2	X	279.78053	101.54456	157.99457	6.66281	0.0990587	0.28289451	2.2981923	21	1 24.4	19.5
149604 2004 DS_{20}	15.7	X	43.81463	215.03935	281.45871	10.15346	0.0849045	0.23069174	2.6329828	21	2 15.9	18.9
149605 2004 DO_{23}	16.6	X	319.32020	107.48903	115.45127	4.48640	0.1232050	0.28354908	2.2946540	21	1 21.9	19.4
149606 2004 DQ_{28}	15.8	X	181.22606	109.74787	145.32981	13.53796	0.1838364	0.21164055	2.7887107	21	—	—
149607 2004 DJ_{38}	15.8	X	71.22186	305.75787	141.78874	6.47264	0.0509656	0.22764548	2.6564197	21	1 25.4	19.2
149608 2004 DK_{45}	15.0	X	313.52832	178.18804	83.12643	15.31817	0.2139582	0.22653767	2.6650729	21	3 10.8	18.8
149609 2004 DK_{49}	15.9	X	283.99718	319.49724	350.10937	7.27849	0.1975838	0.29208637	2.2497203	21	3 23.3	19.0
149610 2004 DT_{61}	16.8	X	186.73476	230.74035	47.78691	3.13502	0.1654335	0.27135298	2.3629053	21	—	—
149611 2004 DK_{77}	17.1	X	95.63421	337.47483	71.80526	3.27134	0.1878017	0.28389099	2.2928113	21	1 15.6	19.2
149612 2004 EO_{7}	16.2	X	210.01483	160.79388	144.90081	2.68757	0.2093913	0.27721737	2.3294627	21	1 13.9	20.1
149613 2004 EL_{8}	15.8	X	326.19772	52.87711	175.33494	7.07596	0.2220696	0.16957630	3.2326544	21	2 13.7	20.1
149614 2004 EP_{11}	16.5	X	68.61689	84.74391	89.44575	5.56136	0.0750494	0.29603218	2.2296846	21	5 17.7	18.7
149615 2004 EX_{11}	16.9	X	102.96109	191.53827	325.06054	7.65583	0.0471289	0.30044122	2.2078168	21	6 6.6	19.5
149616 2004 EN_{13}	16.5	X	4.88570	241.72020	36.59968	2.32963	0.1200257	0.24271077	2.5453256	21	7 7.9	19.0
149617 2004 EK_{16}	16.5	X	258.43363	210.64688	63.12541	5.42863	0.1219916	0.28204287	2.3028163	21	1 19.9	19.8
149618 2004 EJ_{20}	16.8	X	319.79431	311.84031	332.37223	4.53464	0.1698219	0.29372887	2.2413256	21	4 7.3	19.1
149619 2004 EY_{21}	16.6	X	220.52486	143.56827	127.48939	4.64181	0.1236157	0.27564475	2.3383144	21	—	—
149620 2004 EM_{27}	17.5	X	312.66234	279.48676	348.71976	3.28598	0.1572689	0.28960551	2.2625499	21	3 9.4	20.0
149621 2004 EJ_{32}	17.0	X	58.63496	19.08438	174.25457	3.66896	0.0975917	0.29613910	2.2291479	21	6 2.6	19.2
149622 2004 EP_{33}	16.9	X	43.76215	182.33947	115.77010	3.12435	0.1811288	0.30856682	2.1688852	21	11 3.7	19.2
149623 2004 EU_{36}	16.8	X	259.19602	245.48606	6.85271	3.65898	0.1156486	0.27805975	2.3247556	21	—	—
149624 2004 EC_{37}	16.5	X	104.74059	156.87663	17.79333	7.38266	0.0653402	0.29953782	2.2122537	21	7 11.9	19.3
149625 2004 EK_{41}	16.7	X	321.37343	340.71924	212.40968	1.68165	0.1476252	0.28055777	2.3109356	21	—	—
149626 2004 EG_{43}	15.0	X	38.50428	111.19281	168.82284	10.94338	0.1105369	0.19062948	2.9900331	21	9 2.5	18.9
149627 2004 ES_{51}	15.6	X	144.16124	78.07282	347.27051	21.66857	0.0905872	0.23573582	2.5952886	21	3 29.7	19.5
149628 2004 EC_{56}	16.6	X	299.17114	352.84119	284.01132	4.06817	0.1207441	0.28777135	2.2721536	21	3 7.1	19.4
149629 2004 EQ_{56}	16.7	X	294.73606	87.25620	150.63129	1.64283	0.1548967	0.27965988	2.3158794	21	1 8.5	19.8
149630 2004 ET_{59}	16.1	X	344.93279	299.32199	311.04309	6.79001	0.0960798	0.29036012	2.2586281	21	4 9.6	18.5
149631 2004 EO_{60}	17.1	X	350.31312	115.57699	12.22061	0.18262	0.0316766	0.27679957	2.3318062	21	—	—
149632 2004 EM_{62}	16.6	X	249.35244	150.59511	161.99484	3.70210	0.1268653	0.28648021	2.2789754	21	2 26.9	19.7
149633 2004 EX_{65}	16.8	X	284.24073	343.24732	329.36491	1.66466	0.1237707	0.29357386	2.2421145	21	4 6.7	19.4
149634 2004 EU_{72}	17.0	X	235.97232	287.45758	118.01994	3.79418	0.0888885	0.30262454	2.1971850	21	6 21.3	19.8
149635 2004 EH_{73}	16.4	X	108.20500	295.15497	185.49180	4.49525	0.1597747	0.23765560	2.5812932	21	5 16.2	19.9
149636 2004 EC_{78}	16.1	X	292.37059	62.18023	178.39611	14.41134	0.0806518	0.22516016	2.6759317	21	1 26.3	20.0
149637 2004 EE_{79}	16.6	X	12.79377	339.33534	168.31760	3.97710	0.1051066	0.28070042	2.3101526	21	—	—
149638 2004 EU_{79}	16.4	X	19.53858	334.87604	90.74190	10.64310	0.1706436	0.27271668	2.3550217	21	—	—
149639 2004 FU_{2}	16.6	X	207.94827	269.54245	157.12539	3.62737	0.2818768	0.30428921	2.1891642	21	6 9.8	20.4
149640 2004 FX_{9}	17.4	X	245.56478	253.27862	165.76099	3.14139	0.0945314	0.30784394	2.1722792	21	7 22.7	20.1
149641 2004 FE_{15}	16.9	X	21.00360	326.90146	268.83900	1.37585	0.1599415	0.29350036	2.2424888	21	6 2.1	18.4
149642 2004 FB_{22}	16.3	X	47.25340	9.56711	182.54188	5.55847	0.0882860	0.29270383	2.2465553	21	5 10.6	18.4
149643 2004 FJ_{23}	16.0	X	45.48449	32.41265	200.26570	0.53433	0.0971849	0.18520744	3.0481086	21	7 10.1	19.9
149644 2004 FF_{27}	15.0	X	200.46979	158.92196	175.72558	0.28547	0.1544196	0.16844915	3.2470588	21	2 21.9	20.3
149645 2004 FK_{32}	16.9	X	334.75865	339.04621	253.29169	1.51812	0.0994216	0.28626801	2.2801014	21	2 28.3	19.3
149646 2004 FX_{34}	16.6	X	21.72809	249.23001	211.50070	5.54961	0.0862777	0.27776386	2.3264062	21	—	—
149647 2004 FC_{38}	16.6	X	5.86207	260.67465	319.16821	4.61595	0.0816325	0.28965391	2.2622979	21	4 3.3	18.9
149648 2004 FH_{38}	16.1	X	267.70315	288.76368	331.64764	6.13915	0.0935002	0.28058243	2.3108002	21	1 14.9	19.4
149649 2004 FR_{43}	16.4	X	180.17102	255.08115	62.24014	3.92689	0.1585315	0.27567631	2.3381359	21	—	—
149650 2004 FW_{44}	16.9	X	283.34440	136.60451	101.21543	3.67169	0.1933277	0.27751594	2.3277916	21	—	—
149651 2004 FC_{53}	16.8	X	5.74860	55.92966	94.14856	3.89003	0.0721235	0.27953554	2.3165661	21	—	—
149652 2004 FW_{53}	17.1	X	156.44335	268.58771	72.49582	2.96779	0.2269268	0.27847968	2.3224179	21	1 11.7	20.5
149653 2004 FF_{56}	16.3	X	301.44913	110.91885	158.94444	6.81735	0.0912825	0.28727542	2.2747678	21	3 7.7	18.8
149654 2004 FO_{60}	16.7	X	325.89442	101.32216	38.25071	2.96063	0.1340367	0.27351306	2.3504481	21	—	—
149655 2004 FM_{64}	16.9	X	22.11182	47.40504	71.45558	3.29309	0.1191372	0.27842978	2.3226954	21	—	—
149656 2004 FP_{64}	17.1	X	200.76751	189.02954	66.91544	3.22413	0.1882698	0.26646273	2.3917277	21	—	—
149657 2004 FH_{86}	17.6	X	69.97060	132.83220	81.77040	5.13907	0.0899003	0.30165701	2.2018806	21	7 24.1	20.0
149658 2004 FO_{91}	17.3	X	113.93191	352.60596	159.84179	4.48545	0.0499192	0.29872305	2.2162745	21	6 18.1	19.9
149659 2004 FR_{92}	17.0	X	273.52194	356.27139	191.39606	0.85263	0.1297803	0.27138034	2.3627465	21	—	—
149660 2004 FC_{93}	16.6	X	71.66981	321.77118	173.05269	6.04157	0.0628787	0.28829717	2.2693900	21	3 22.5	18.9
149661 2004 FP_{104}	16.7	X	92.36391	39.41026	123.74755	7.28500	0.0466782	0.29608413	2.2294238	21	6 3.0	19.3
149662 2004 FW_{105}	16.3	X	18.31977	78.42141	128.88984	12.02314	0.1389419	0.23462591	2.6034669	21	4 23.4	19.2
149663 2004 FR_{106}	16.4	X	269.76166	187.38906	65.53914	4.37387	0.0606114	0.27946232	2.3169707	21	1 9.9	19.4
149664 2004 FA_{109}	15.9	X	329.47116	21.32651	16.25000	11.58743	0.1199637	0.25582977	2.4575479	21	10 27.8	18.3
149665 2004 FD_{122}	16.8	X	251.00610	88.62398	163.52903	2.96501	0.1418405	0.27442900	2.3452153	21	—	—
149666 2004 FJ_{126}	16.1	X	296.65572	256.34247	15.70838	6.85641	0.1077023	0.28629523	2.2799569	21	3 4.1	19.0
149667 2004 FF_{130}	16.0	X	66.16846	354.53648	161.82398	13.86102	0.0845239	0.23343057	2.6123472	21	4 27.9	19.4
149668 2004 FV_{136}	14.8	X	314.52468	149.63083	132.88238	17.65541	0.1715639	0.17410864	3.1763072	21	4 21.3	19.3
149669 2004 FM_{141}	15.8	X	56.57820	143.29807	41.28350	0.95316	0.1100432	0.17886148	3.1197862	21	5 25.6	19.9
149670 2004 FJ_{142}	16.8	X	227.68983	218.97351	26.95420	2.91674	0.0945744	0.27060636	2.3672496	21	—	—
149671 2004 FD_{143}	16.5	X	317.03840	152.84066	97.88020	6.57625	0.1315627	0.28454553	2.2892938	21	2 27.0	19.2
149672 2004 FH_{145}	16.8	X	196.34185	146.02825	148.44792	1.60598	0.2196742	0.27412623	2.3469418	21	—	—
149673 2004 GE_{9}	16.9	X	273.16324	261.29419	346.62214	2.02599	0.1723333	0.27633272	2.3344317	21	—	—
149674 2004 GN_{11}	15.0	X	279.92597	201.42227	123.44213	33.68946	0.1651753	0.22906822	2.6454089	21	5 4.8	19.6
149675 2004 GS_{12}	16.6	X	283.50217	83.53207	131.75310	7.27703	0.0538750	0.27445816	2.3450492	21	—	—
149676 2004 GG_{13}	15.2	X	82.50772	113.22463	81.93221	6.08467	0.1306583	0.18183641	3.0856654	21	7 18.2	19.5
149677 2004 GL_{15}	16.0	X	270.97230	141.48949	137.68802	22.85880	0.2055615	0.27863780	2.3215392	21	2 1.3	19.7
149678 2004 GZ_{17}	15.2	X	303.31954	131.48416	150.53694	13.80008	0.1507142	0.17374747	3.1807074	21	4 5.3	19.7
149679 2004 GA_{18}	15.5	X	315.98343	121.81592	51.36618	16.50018	0.1233237	0.21886087	2.7270345	21	—	—
149680 2004 GK_{21}	15.1	X	325.51337	62.76045	186.84447	19.03819	0.1021069	0.17064380	3.2191586	21	3 29.6	19.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
149681 2004 GU_{24}	15.7	X	195.11502	167.74686	140.72822	3.79317	0.3027567	0.21215481	2.7842024	21	1 16.7	20.7
149682 2004 GD_{29}	16.1	X	337.65476	263.06067	42.57487	4.53505	0.2803929	0.23524388	2.5989056	21	6 4.4	18.3
149683 2004 GM_{30}	16.7	X	42.87464	301.85318	342.04081	1.65638	0.1931682	0.24476848	2.5310403	21	10 3.7	19.5
149684 2004 GC_{34}	15.7	X	45.63289	148.91631	82.63611	5.73709	0.1962122	0.23704841	2.5856993	21	7 26.1	18.4
149685 2004 GM_{34}	15.0	X	226.98999	354.82409	299.73044	10.14915	0.2870468	0.21826271	2.7320146	21	1 20.9	20.0
149686 2004 GB_{35}	16.2	X	215.75222	298.40072	302.24983	5.87883	0.0734321	0.26829998	2.3807966	21	—	—
149687 2004 GV_{65}	16.7	X	165.82684	187.12238	185.72009	3.66377	0.1305503	0.28205957	2.3027255	21	2 19.1	19.9
149688 2004 GU_{71}	16.4	X	289.94937	155.16009	66.48552	7.40841	0.0587004	0.27743185	2.3282620	21	—	—
149689 2004 GG_{72}	15.1	X	283.87068	177.15025	103.65886	5.90004	0.0814908	0.17017982	3.2250071	21	3 20.4	19.7
149690 2004 GZ_{86}	16.6	X	344.57872	317.99786	296.83520	5.61068	0.1749737	0.28768043	2.2726323	21	4 5.1	18.9
149691 2004 HN	17.2	X	348.01551	346.90624	199.45746	2.45239	0.1331550	0.28121472	2.3073351	21	1 10.6	19.7
149692 2004 HM_{2}	15.6	X	210.45005	257.04273	112.91636	14.45499	0.1130790	0.22701289	2.6613523	21	4 15.5	20.0
149693 2004 HP_{6}	16.6	X	115.48070	148.80120	129.67707	5.54776	0.1646926	0.25592408	2.4569441	21	12 14.1	20.5
149694 2004 HY_{15}	16.3	X	164.59941	141.83279	137.15517	11.30326	0.1454679	0.26300945	2.4126175	21	—	—
149695 2004 HW_{21}	15.5	X	348.87359	200.32971	38.03645	4.35976	0.0420713	0.17448922	3.1716869	21	4 22.8	19.8
149696 2004 HP_{25}	15.0	X	288.49068	232.59834	55.27956	7.36292	0.1057228	0.17023411	3.2243214	21	3 31.3	19.6
149697 2004 HR_{25}	16.8	X	220.15128	28.04560	143.39032	3.28620	0.1208778	0.25868803	2.4394120	21	11 17.0	20.1
149698 2004 HJ_{38}	16.3	X	145.47847	194.09457	91.07312	6.95469	0.0791772	0.26188523	2.4195172	21	—	—
149699 2004 HN_{41}	17.3	X	159.97645	74.89820	199.67850	1.55760	0.1543524	0.26210993	2.4181342	21	—	—
149700 2004 HL_{42}	17.2	X	310.47345	239.06509	346.90851	1.69000	0.1368946	0.28013792	2.3132440	21	1 13.7	20.3
149701 2004 HD_{43}	16.4	X	254.81732	156.45515	33.73930	6.80368	0.0622689	0.26508501	2.4000075	21	—	—
149702 2004 HF_{50}	16.3	X	301.95770	33.17565	99.79251	6.66939	0.0582417	0.26470838	2.4022835	21	—	—
149703 2004 HS_{52}	16.9	X	329.33748	139.79717	88.08348	0.50845	0.1677004	0.28224032	2.3017422	21	2 4.6	19.7
149704 2004 HR_{53}	15.3	X	298.26288	63.01161	119.97607	15.37249	0.1284353	0.21465167	2.7625694	21	—	—
149705 2004 HC_{56}	15.8	X	270.49656	15.13177	279.21592	14.14373	0.1224654	0.22672595	2.6635973	21	2 27.2	20.0
149706 2004 HY_{56}	15.6	X	326.60083	189.34606	128.69607	19.22042	0.2088731	0.23430707	2.6058282	21	6 15.3	18.6
149707 2004 HA_{63}	15.0	X	216.06656	301.83335	119.52631	12.82430	0.1007165	0.17900555	3.1181121	21	6 21.3	19.9
149708 2004 HB_{65}	15.0	X	240.87322	358.47403	22.59440	17.87248	0.1294073	0.18078682	3.0975967	21	5 20.1	20.0
149709 2004 JM_{6}	16.7	X	216.53870	346.12876	243.94815	2.31809	0.0943799	0.26413932	2.4057326	21	—	—
149710 2004 JG_{8}	15.1	X	335.64345	31.43119	212.67823	11.60508	0.0953211	0.17159052	3.2073069	21	4 5.3	19.4
149711 2004 JD_{10}	16.2	X	218.11342	81.89760	136.55659	11.33197	0.0531557	0.26234989	2.4166594	21	—	—
149712 2004 JF_{10}	15.3	X	2.57374	44.22927	146.71681	13.16482	0.2027903	0.22465590	2.6799344	21	2 17.5	17.7
149713 2004 JK_{10}	15.6	X	346.20510	174.18523	116.98062	15.94351	0.1102325	0.23336099	2.6128664	21	6 22.7	18.6
149714 2004 JZ_{14}	16.4	X	115.84884	148.91914	145.01628	6.69269	0.1316372	0.25547054	2.4598512	21	12 31.3	20.3
149715 2004 JT_{15}	16.2	X	356.55616	191.65088	105.61501	3.73008	0.1862339	0.23692356	2.5866076	21	7 20.6	18.3
149716 2004 JQ_{18}	17.1	X	243.41775	149.53379	65.83090	2.80012	0.0744719	0.26660374	2.3908843	21	—	—
149717 2004 JP_{19}	17.3	X	239.57739	228.70096	8.44095	1.37325	0.1474036	0.26830582	2.3807621	21	—	—
149718 2004 JF_{20}	16.9	X	55.24214	134.38103	35.24838	5.73199	0.1471929	0.28813885	2.2702212	21	4 26.5	18.5
149719 2004 JS_{22}	16.5	X	167.18987	201.14699	66.90142	4.01781	0.1073056	0.26054048	2.4278354	21	—	—
149720 2004 JH_{27}	16.2	X	21.96827	69.81376	224.77651	4.49244	0.1588565	0.24021538	2.5629227	21	9 5.6	18.9
149721 2004 JZ_{29}	16.5	X	346.42454	80.45335	71.06823	5.70946	0.1050143	0.27351864	2.3504162	21	—	—
149722 2004 JB_{30}	16.3	X	200.40182	187.03266	74.68174	5.15760	0.0204812	0.26565901	2.3965492	21	—	—
149723 2004 JJ_{30}	16.4	X	50.22993	191.60953	108.64113	3.54067	0.0613751	0.24683743	2.5168772	21	10 18.3	19.5
149724 2004 JK_{32}	16.8	X	163.89746	164.54254	94.09620	7.49302	0.1915622	0.25856754	2.4401698	21	12 31.6	20.9
149725 2004 JO_{34}	16.4	X	157.04400	170.89769	111.59576	7.01113	0.1260344	0.25951273	2.4342412	21	—	—
149726 2004 JN_{35}	15.2	X	43.82849	241.65945	97.09395	8.53679	0.2663123	0.18896323	3.0075845	21	12 16.7	19.4
149727 2004 JO_{54}	16.9	X	12.39385	329.09904	200.15165	4.96168	0.0973708	0.28024636	2.3126472	21	1 30.3	19.3
149728 Klostermann	15.6	X	280.12459	270.83334	95.63115	15.50828	0.0902994	0.23750146	2.5824100	21	6 25.7	18.7
149729 2004 KA_{4}	14.9	X	48.03390	250.82391	69.67694	12.29473	0.1167869	0.19061303	2.9902052	21	11 10.7	19.0
149730 2004 KG_{5}	16.3	X	349.32215	242.61719	57.78582	2.56965	0.1335240	0.23546636	2.5972682	21	7 10.7	18.9
149731 2004 KH_{13}	16.0	X	352.94295	177.82536	143.87678	12.17629	0.1339004	0.23864462	2.5741565	21	8 20.2	18.5
149732 2004 KU_{15}	17.2	X	339.78107	232.11552	312.02941	1.98150	0.0716726	0.27963344	2.3160254	21	1 6.2	19.7
149733 2004 LL_{7}	15.8	X	33.50405	205.74505	56.30848	5.64546	0.2289954	0.23654599	2.5893593	21	8 26.3	18.5
149734 2004 LV_{8}	14.4	X	12.68364	1.97613	312.71092	18.75183	0.2104490	0.17560966	3.1581817	21	9 7.8	18.1
149735 2004 LC_{11}	15.6	X	46.16842	183.50595	156.43012	5.46385	0.2434494	0.19088603	2.9873535	21	12 18.0	19.8
149736 2004 LH_{24}	15.1	X	358.88745	200.90108	102.93115	14.78042	0.1793231	0.23543440	2.5975033	21	8 7.9	17.5
149737 2004 LS_{29}	16.0	X	306.99584	48.95279	167.22757	4.57968	0.0091055	0.21051518	2.7986404	21	1 28.3	19.8
149738 2004 NH_{2}	15.1	X	5.45330	16.72265	314.57757	17.18072	0.2159547	0.17792091	3.1307717	21	9 16.6	18.7
149739 2004 ND_{5}	16.7	X	193.29129	337.56359	282.75274	1.25381	0.1809996	0.25954412	2.4340449	21	—	—
149740 2004 NL_{6}	14.9	X	329.17800	93.56589	282.10041	12.61281	0.1053841	0.17865010	3.1222466	21	9 9.5	19.1
149741 2004 NQ_{12}	14.7	X	85.25932	229.25031	104.59131	11.35644	0.1045620	0.19103861	2.9857627	21	—	—
149742 2004 NF_{13}	15.1	X	8.72725	208.15301	121.75386	15.15953	0.1526455	0.17967902	3.1103157	21	10 1.5	19.0
149743 2004 ND_{16}	15.4	X	79.82615	166.25323	150.72604	4.24957	0.1050863	0.18870685	3.0103080	21	12 9.9	19.9
149744 2004 NO_{17}	14.7	X	6.12077	217.40651	130.64254	11.21426	0.1407743	0.18053544	3.1004714	21	10 18.7	18.5
149745 2004 NR_{22}	14.0	X	258.84344	37.77655	302.56138	18.43206	0.0730231	0.16144191	3.3403491	21	4 23.9	19.3
149746 2004 NW_{30}	14.6	X	333.45818	208.52212	121.14566	8.38801	0.1509275	0.17287627	3.1913845	21	7 19.9	18.3
149747 2004 OT_{2}	14.6	X	292.72188	284.89484	117.61908	16.42147	0.1774180	0.17629434	3.1499994	21	8 18.4	18.8
149748 2004 OY_{2}	14.7	X	330.69670	224.42333	141.04227	14.99955	0.0834065	0.17726738	3.1384617	21	9 9.3	18.7
149749 2004 OQ_{4}	15.5	X	268.63306	195.93307	119.91937	10.13735	0.1238701	0.21984599	2.7188820	21	4 5.9	19.6
149750 2004 OE_{5}	15.5	X	271.29416	194.36601	115.03302	8.24413	0.1468115	0.21880074	2.7275341	21	3 28.3	19.6
149751 2004 OW_{7}	16.0	X	159.63934	25.59980	292.85959	1.35134	0.1508732	0.20184307	2.8782388	21	—	—
149752 2004 OE_{10}	15.7	X	337.49976	304.95713	323.03671	14.16147	0.1155500	0.22444357	2.6816243	21	4 25.3	19.3
149753 2004 PH_{12}	15.8	X	174.83731	136.96842	166.89870	1.84174	0.0584349	0.20058254	2.8902847	21	—	—
149754 2004 PR_{12}	15.1	X	327.10528	230.49052	141.54438	4.85352	0.0804810	0.17560847	3.1581960	21	9 11.1	19.2
149755 2004 PE_{18}	15.0	X	111.76646	355.25661	320.28450	8.24046	0.1372253	0.19080356	2.9882143	21	—	—
149756 2004 PC_{28}	15.5	X	65.88244	291.37772	292.68951	12.83286	0.1470744	0.22977495	2.6399818	21	8 4.4	18.9
149757 2004 PO_{55}	14.9	X	15.71410	225.96747	126.44485	8.76227	0.1006267	0.17966465	3.1104815	21	11 3.1	19.0
149758 2004 PY_{62}	14.9	X	345.99652	28.10183	298.47269	10.88634	0.1035497	0.17432747	3.1736485	21	8 7.8	18.8
149759 2004 PR_{69}	14.4	X	114.76190	258.31384	323.24752	17.03035	0.0847017	0.17546538	3.1599128	21	9 13.8	19.3
149760 2004 PR_{71}	16.3	X	78.85258	256.23499	339.66414	2.79378	0.1881402	0.23588425	2.5941998	21	9 14.8	19.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
149761 2004 PT_{72}	14.8	X	216.17523	125.59362	328.01209	11.94801	0.0907420	0.17103173	3.2142890	21	8 2.2	19.7
149762 2004 PE_{73}	14.7	X	304.29984	252.45929	129.65682	11.72799	0.1384511	0.17242338	3.1969704	21	8 13.1	18.8
149763 2004 PH_{75}	15.2	X	33.46774	206.73193	131.97365	10.58372	0.0771439	0.18221240	3.0814191	21	11 8.8	19.5
149764 2004 PT_{98}	14.5	X	9.15822	215.59738	105.23249	12.77351	0.1269717	0.17478693	3.1680844	21	9 16.6	18.5
149765 2004 PM_{106}	15.0	X	73.09961	354.89901	295.19476	10.64846	0.1515599	0.18175430	3.0865945	21	10 31.9	19.8
149766 2004 PH_{110}	16.0	X	247.26577	184.60670	117.97820	6.54766	0.1065089	0.21422955	2.7661971	21	2 25.1	20.2
149767 2004 QF_{2}	15.0	X	343.92827	258.81569	97.02963	9.97175	0.1048025	0.17490954	3.1666037	21	9 19.5	19.0
149768 2004 QP_{2}	15.7	X	74.19269	320.28159	6.10186	1.92751	0.0694211	0.18734641	3.0248636	21	12 9.7	20.1
149769 2004 QM_{9}	14.5	X	190.66540	315.32230	82.85877	6.70538	0.0760454	0.15516521	3.4298343	21	4 30.8	19.7
149770 2004 QO_{10}	14.9	X	80.53897	125.58359	101.21035	11.63319	0.0343416	0.16951566	3.2334253	21	8 12.3	19.5
149771 2004 RP_{22}	15.7	X	180.79923	324.79762	13.42945	1.93815	0.1247916	0.20418715	2.8561682	21	2 3.9	20.2
149772 2004 RN_{27}	14.3	X	152.24731	204.17798	359.22610	17.67944	0.0867574	0.17618089	3.1513515	21	10 4.4	19.1
149773 2004 RE_{37}	15.2	X	102.91098	246.48851	13.34565	6.18685	0.0631204	0.18168082	3.0874267	21	10 20.9	19.8
149774 2004 RH_{107}	14.3	X	331.74504	181.03196	274.65361	4.90517	0.2504989	0.12596217	3.9413284	21	12 14.4	18.3
149775 2004 RV_{121}	16.0	X	99.09295	213.26660	64.56751	1.78045	0.1434599	0.18359632	3.0659147	21	11 16.5	20.7
149776 2004 RU_{152}	14.3	X	90.84437	216.58559	259.17841	8.65677	0.0251577	0.15190131	3.4787912	21	4 1.9	19.4
149777 2004 RX_{208}	14.9	X	229.72989	295.50802	294.45359	14.98587	0.0446304	0.19626354	2.9325334	21	—	—
149778 2004 RQ_{215}	14.7	X	160.90266	322.82164	321.98372	15.02760	0.0567260	0.18983080	2.9984140	21	—	—
149779 2004 RY_{255}	14.4	X	73.93227	187.94253	129.75780	17.94415	0.1103329	0.18028481	3.1033442	21	12 6.8	19.2
149780 2004 RN_{313}	15.1	X	192.96406	231.94400	350.98089	8.49369	0.0323691	0.18546874	3.0452449	21	12 15.4	19.6
149781 2004 RV_{321}	15.1	X	124.91393	60.60777	201.84224	6.70091	0.2175708	0.18367844	3.0650008	21	11 26.5	20.3
149782 2004 RZ_{343}	15.3	X	212.24483	117.01312	158.70399	8.62918	0.1794774	0.19889650	2.9065957	21	—	—
149783 2004 TH_{87}	15.7	X	228.46729	116.18945	29.38977	1.16718	0.1260193	0.17549755	3.1595266	21	10 12.8	20.6
149784 2004 TM_{221}	14.8	X	125.81857	295.58477	324.17508	13.31529	0.1621724	0.18016604	3.1047080	21	11 16.8	20.1
149785 2005 BW_{5}	16.1	X	339.67644	355.32275	50.11132	4.15204	0.0525401	0.22526086	2.6751341	21	11 19.6	19.4
149786 2005 EG_{28}	16.3	X	26.15532	234.77304	12.04658	8.27994	0.1213337	0.25605625	2.4560986	21	7 1.4	18.9
149787 2005 ER_{94}	16.8	X	299.42621	135.91721	83.44408	4.51074	0.1467099	0.29638277	2.2279259	21	—	—
149788 2005 EY_{323}	16.8	X	54.99451	124.66726	73.86047	2.09481	0.0807675	0.30965537	2.1637993	21	5 31.3	18.7
149789 2005 GS_{5}	16.8	X	204.59883	259.24191	77.34252	4.16339	0.2399547	0.29535096	2.2331117	21	2 16.3	20.5
149790 2005 GK_{20}	16.8	X	292.09070	178.72050	37.07753	6.16255	0.0754799	0.29331857	2.2434153	21	—	—
149791 2005 GU_{23}	16.6	X	229.28280	211.11778	69.14945	6.92371	0.1782472	0.29034236	2.2587203	21	—	—
149792 2005 GW_{24}	16.8	X	102.69246	82.58319	148.74963	4.60160	0.2266461	0.26306413	2.4122832	21	10 11.7	20.7
149793 2005 GO_{126}	17.0	X	347.41159	38.14034	215.39413	1.48381	0.1275657	0.24638786	2.5199379	21	4 25.4	19.7
149794 2005 GS_{144}	16.9	X	267.97965	245.46692	97.98065	5.76806	0.2147864	0.30655877	2.1783461	21	4 21.1	20.0
149795 2005 GG_{153}	16.8	X	260.60358	144.87685	88.86057	6.07535	0.1021157	0.28938703	2.2636886	21	—	—
149796 2005 HH_{7}	17.4	X	86.78940	99.61942	166.99702	1.57254	0.1372109	0.26745843	2.3857880	21	10 31.7	20.8
149797 2005 JR_{29}	16.3	X	66.32975	125.25818	106.26934	3.07436	0.1315446	0.25487828	2.4636603	21	8 17.7	19.2
149798 2005 JH_{34}	16.9	X	253.49617	233.01370	97.08330	8.72409	0.2455454	0.29821615	2.2187853	21	3 21.3	20.6
149799 2005 JL_{45}	16.7	X	300.58216	239.30420	118.89524	23.58481	0.0887246	0.37715751	1.8972339	21	7 17.3	17.8
149800 2005 JR_{104}	16.3	X	183.92769	99.72222	177.60653	12.35326	0.1689638	0.21916052	2.7245483	21	—	—
149801 2005 JC_{133}	16.0	X	81.73271	36.03852	165.53724	5.29482	0.1492661	0.19200282	2.9757582	21	7 26.9	20.1
149802 2005 JR_{148}	16.2	X	36.77027	215.07801	118.08018	3.34039	0.2223673	0.26911718	2.3759744	21	12 10.5	19.2
149803 2005 KX_{12}	16.0	X	332.96617	141.88493	170.51221	5.41261	0.2131807	0.18769528	3.0211142	21	6 17.9	19.3
149804 2005 KC_{13}	16.7	X	172.62183	32.13949	227.85687	6.19055	0.0995221	0.27601802	2.3362057	21	—	—
149805 2005 LP_{13}	16.4	X	92.58694	277.79584	92.64032	14.37825	0.3352516	0.21432592	2.7653679	21	1 1.8	19.5
149806 2005 LL_{22}	16.8	X	339.03570	356.61455	166.90137	3.49990	0.0696396	0.29102060	2.2552095	21	—	—
149807 2005 LY_{32}	16.5	X	348.48718	260.89121	79.95100	7.20570	0.1495257	0.25748703	2.4469916	21	9 17.4	18.8
149808 2005 LZ_{32}	17.3	X	240.05680	23.73937	178.71509	2.62407	0.1150023	0.28083339	2.3094233	21	—	—
149809 2005 MB_{2}	17.0	X	90.38692	145.10775	108.33016	25.33730	0.1139410	0.38212593	1.8807528	21	11 12.7	20.0
149810 2005 MT_{2}	16.7	X	105.60483	181.01220	135.65674	3.07643	0.2115967	0.26595465	2.3947728	21	—	—
149811 2005 MZ_{8}	15.4	X	135.19979	92.25186	137.55552	10.35492	0.0258251	0.19696294	2.9255871	21	10 25.0	19.7
149812 2005 MN_{26}	16.4	X	303.66331	53.76540	312.53737	1.82832	0.1779383	0.24541622	2.5265848	21	7 17.2	19.0
149813 2005 MJ_{32}	16.5	X	46.91604	70.06786	281.46276	2.42458	0.1862306	0.26054639	2.4277987	21	—	—
149814 2005 MF_{34}	15.4	X	273.50929	280.98298	131.43583	11.83936	0.0523459	0.18618352	3.0374459	21	8 23.4	19.6
149815 2005 MG_{34}	16.6	X	154.91097	206.66747	134.29333	5.26547	0.1389308	0.27762781	2.3271662	21	—	—
149816 2005 MS_{37}	15.1	X	66.79122	96.33937	133.25483	10.34273	0.0527345	0.18395871	3.0618869	21	7 29.8	19.3
149817 2005 MP_{41}	16.4	X	212.63919	84.06332	352.82870	0.72837	0.0484226	0.24289981	2.5440048	21	7 10.3	19.8
149818 2005 MD_{49}	16.1	X	299.04622	61.34624	265.38661	4.61545	0.0713053	0.23887340	2.5725127	21	5 30.9	19.3
149819 2005 NJ	15.1	X	281.87147	88.25504	307.30964	14.92255	0.2518156	0.17926148	3.1151436	21	7 13.8	19.6
149820 2005 NY	16.1	X	113.69112	30.37021	266.42685	13.96534	0.2465357	0.26943254	2.3741201	21	—	—
149821 2005 NE_{9}	16.8	X	136.99288	291.82226	143.53628	5.85542	0.1268101	0.29001596	2.2604147	21	4 12.5	19.8
149822 2005 NM_{11}	16.1	X	24.47490	263.07836	125.61363	7.94979	0.1778891	0.26198543	2.4189002	21	—	—
149823 2005 NN_{27}	17.6	X	337.76570	46.42454	276.37082	6.43323	0.0497966	0.30859744	2.1687417	21	7 28.4	19.7
149824 2005 ND_{30}	16.3	X	55.06016	275.17607	121.68452	5.61698	0.2370378	0.26803504	2.3823652	21	—	—
149825 2005 NK_{39}	16.1	X	68.95885	325.83815	11.40485	5.65687	0.2227523	0.26359979	2.4090141	21	—	—
149826 2005 NN_{39}	15.8	X	312.74336	331.80835	21.08727	6.38504	0.2188372	0.24582119	2.5238091	21	7 7.2	18.4
149827 2005 NQ_{58}	16.8	X	116.18396	189.60421	198.10061	1.47414	0.1088931	0.21286655	2.7779927	21	1 21.1	20.5
149828 2005 NZ_{62}	16.9	X	159.23346	356.20188	327.52539	1.69285	0.2239698	0.27521412	2.3407529	21	—	—
149829 2005 NP_{65}	17.0	X	114.50696	186.81193	192.67061	1.38335	0.0555688	0.27749536	2.3279067	21	—	—
149830 2005 NK_{99}	16.1	X	101.96332	217.70702	127.52380	10.16564	0.1069358	0.26755774	2.3851976	21	—	—
149831 2005 NG_{101}	15.6	X	268.90102	199.36847	169.64061	11.07834	0.2319174	0.17690658	3.1427275	21	5 29.9	20.6
149832 2005 OS_{6}	16.3	X	68.56297	298.18628	41.76773	2.99915	0.2174506	0.26095373	2.4252716	21	—	—
149833 2005 OO_{11}	16.6	X	236.08324	193.82050	128.08947	7.17431	0.1572433	0.28794282	2.2712514	21	2 25.7	20.0
149834 2005 OT_{14}	16.6	X	113.14088	63.80772	292.46659	1.28674	0.2156229	0.26892906	2.3770823	21	—	—
149835 2005 OR_{15}	15.5	X	245.40507	158.73811	247.02221	11.28411	0.2176316	0.24008258	2.5638677	21	6 19.4	19.5
149836 2005 OO_{19}	16.4	X	334.43565	312.70926	133.89755	5.53039	0.0842106	0.26339643	2.4102539	21	—	—
149837 2005 OX_{20}	16.1	X	32.04083	248.38525	128.07558	7.22793	0.1152969	0.26059194	2.4275158	21	—	—
149838 2005 OZ_{21}	16.4	X	32.08593	236.36772	140.74209	5.95790	0.0979967	0.26065668	2.4271138	21	—	—
149839 2005 OP_{27}	16.5	X	335.79069	115.30285	307.10101	5.34637	0.1677994	0.19286070	2.9669272	21	11 30.3	19.8
149840 2005 PO_{1}	16.6	X	96.99337	229.68301	120.20841	6.47442	0.1473634	0.26796508	2.3827798	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
149841 2005 PT_{2}	16.6	X	284.48335	3.46224	317.81988	6.92944	0.1234993	0.29719215	2.2238790	21	4 15.8	19.7
149842 2005 PP_{6}	15.8	X	354.93343	290.15923	69.91766	6.53458	0.1434659	0.25217149	2.4812588	21	10 26.7	18.2
149843 2005 PX_{15}	16.6	X	3.56729	241.63267	121.85116	4.81796	0.2016347	0.25267606	2.4779545	21	11 24.2	18.9
149844 2005 PC_{18}	15.1	X	296.58331	351.66207	27.38473	16.49279	0.2238607	0.24413956	2.5353852	21	7 20.6	18.5
149845 2005 PE_{20}	15.9	X	262.84279	234.77314	88.67670	12.69873	0.1443280	0.23186336	2.6241055	21	4 7.9	20.0
149846 2005 PY_{20}	16.0	X	75.89000	207.01960	143.29865	6.00839	0.1713931	0.26494708	2.4008404	21	—	—
149847 2005 QO_{1}	16.3	X	262.45848	177.77203	250.03151	4.47721	0.1127152	0.24648594	2.5192694	21	8 20.2	19.7
149848 2005 QX_{3}	16.6	X	65.54317	200.50830	167.65380	4.54838	0.1911014	0.26298236	2.4127832	21	—	—
149849 2005 QH_{6}	16.3	X	288.79388	133.67544	257.31593	2.18788	0.2094389	0.17940459	3.1134867	21	7 21.3	20.5
149850 2005 QN_{8}	16.5	X	73.33299	202.53278	140.30536	1.86224	0.2023434	0.26235973	2.4165990	21	—	—
149851 2005 QS_{9}	16.2	X	67.36738	186.74498	266.96455	5.14814	0.0425613	0.21791189	2.7349461	21	1 28.5	19.7
149852 2005 QB_{10}	15.0	X	123.98191	251.29131	170.62931	17.38309	0.0801644	0.15947634	3.3677399	21	3 18.3	19.8
149853 2005 QX_{26}	16.4	X	130.72958	212.29786	95.85538	3.81865	0.2031494	0.26609339	2.3939404	21	—	—
149854 2005 QF_{31}	16.7	X	110.10303	355.45865	348.14524	5.37859	0.1758157	0.26956925	2.3733174	21	—	—
149855 2005 QZ_{40}	16.5	X	201.66812	35.02399	316.78672	5.86989	0.2010645	0.28432538	2.2904754	21	3 1.8	20.2
149856 2005 QG_{46}	17.2	X	41.41646	50.24511	107.54246	2.89592	0.0579468	0.28561547	2.2835730	21	3 7.7	19.4
149857 2005 QT_{52}	16.5	X	97.23970	335.75017	25.29875	2.72544	0.2259791	0.26969328	2.3725897	21	—	—
149858 2005 QS_{53}	16.8	X	201.42824	184.85741	148.74683	4.79654	0.0940054	0.28297118	2.2977772	21	2 4.6	20.1
149859 2005 QA_{55}	15.7	X	339.00817	228.07281	101.57094	3.11522	0.1724570	0.18181345	3.0859250	21	7 29.6	19.0
149860 2005 QA_{56}	16.0	X	180.30170	325.62387	13.15034	3.59419	0.1864971	0.21594087	2.7515631	21	2 6.2	20.5
149861 2005 QA_{63}	16.1	X	146.38224	252.49203	154.32650	8.42835	0.1379595	0.22060773	2.7126197	21	3 24.7	20.2
149862 2005 QR_{72}	15.6	X	206.71745	25.40495	334.99489	7.40570	0.0764558	0.22311241	2.6922801	21	3 22.3	19.7
149863 2005 QP_{74}	15.9	X	132.22273	348.93211	22.72703	3.07193	0.0973665	0.21124199	2.7922173	21	1 20.6	19.8
149864 2005 QE_{83}	16.7	X	135.98293	130.30304	217.91831	1.64800	0.1421508	0.27268027	2.3552313	21	—	—
149865 Michelhernandez	16.5	X	166.69644	335.83607	99.51744	3.43996	0.1902174	0.22973876	2.6402590	21	5 20.4	20.8
149866 2005 QV_{90}	16.1	X	112.07358	258.43385	147.83420	4.45879	0.1006775	0.21391467	2.7689110	21	2 6.8	19.7
149867 2005 QX_{90}	17.1	X	23.94453	119.88685	154.66492	3.11701	0.1806236	0.30558167	2.1829872	21	8 21.4	18.7
149868 2005 QH_{95}	16.7	X	168.28170	209.67254	116.76823	3.85635	0.1832553	0.27680976	2.3317489	21	—	—
149869 2005 QF_{106}	16.8	X	288.92960	206.35091	81.19590	3.41058	0.1250011	0.29136647	2.2534244	21	3 11.8	19.7
149870 2005 QT_{121}	16.7	X	129.26656	278.04245	243.92044	1.56585	0.1305054	0.23957114	2.5675154	21	7 29.3	20.5
149871 2005 QQ_{137}	16.8	X	169.57994	22.39968	40.30480	2.50189	0.0767138	0.22684138	2.6626936	21	5 1.5	20.7
149872 2005 QL_{140}	16.0	X	285.37775	335.60475	38.34599	1.46020	0.1938431	0.17639116	3.1488466	21	6 27.5	20.3
149873 2005 QA_{144}	14.8	X	296.22385	288.67009	24.83290	7.59458	0.1196604	0.17126229	3.2114036	21	5 5.3	19.3
149874 2005 QN_{146}	16.0	X	179.63843	237.68170	86.63472	6.96089	0.0287344	0.21676611	2.7445751	21	1 7.9	19.7
149875 2005 QB_{149}	15.1	X	74.92926	224.66305	218.71027	13.56403	0.1622291	0.21086728	2.7955242	21	2 6.8	18.7
149876 2005 QL_{157}	15.6	X	12.66610	59.30375	341.06691	10.88966	0.1314292	0.19289731	2.9665517	21	—	—
149877 2005 QK_{158}	15.9	X	202.01063	268.73396	149.64390	9.84639	0.0525082	0.23174583	2.6249927	21	6 3.8	19.8
149878 2005 QH_{164}	15.6	X	309.33272	51.05923	296.76409	12.55165	0.2896399	0.23940769	2.5686838	21	6 9.2	18.6
149879 2005 QB_{178}	16.4	X	10.14089	316.01934	48.18321	3.33207	0.1925373	0.25552824	2.4594809	21	12 4.8	18.8
149880 2005 QV_{178}	16.5	X	221.10704	117.12022	300.39169	8.43354	0.1139284	0.23445377	2.6047412	21	6 19.4	20.4
149881 2005 RZ	15.7	X	149.97051	356.80580	315.76686	13.74146	0.2364156	0.26943432	2.3741096	21	—	—
149882 2005 RM_{4}	16.4	X	317.54871	301.61385	13.31917	2.40312	0.1283669	0.23476129	2.6024660	21	6 2.8	19.5
149883 2005 RT_{4}	15.9	X	199.41878	227.00061	112.51945	22.80157	0.1715966	0.28419238	2.2911900	21	2 16.2	19.7
149884 Radebeul	15.2	X	206.67085	158.56306	12.40365	10.87937	0.0364819	0.18529458	3.0471529	21	10 27.4	19.6
149885 2005 RV_{11}	16.2	X	94.13779	12.62361	353.86903	1.55898	0.0783857	0.20250280	2.8719840	21	—	—
149886 2005 RX_{20}	15.6	X	108.70507	137.91518	310.80925	8.47954	0.1118586	0.21773464	2.7364301	21	3 25.5	19.5
149887 2005 RA_{22}	15.5	X	23.67622	220.58507	110.47928	1.31959	0.1413901	0.18781784	3.0197998	21	10 22.0	19.3
149888 2005 RK_{23}	16.4	X	152.35509	27.41454	265.28138	4.59387	0.1004993	0.26771259	2.3842778	21	—	—
149889 2005 RT_{23}	15.6	X	282.87501	356.96781	319.53385	10.81699	0.1116330	0.22738815	2.6584235	21	4 13.9	19.6
149890 2005 RV_{23}	16.0	X	351.30257	6.79874	289.07192	7.34478	0.1776181	0.23733885	2.5835894	21	7 5.7	18.0
149891 2005 RG_{27}	15.6	X	229.68060	31.69367	300.25503	10.77233	0.1936243	0.22310817	2.6923141	21	3 4.2	20.3
149892 2005 RA_{29}	15.3	X	243.36711	242.03135	174.81894	14.36081	0.1724280	0.23200560	2.6230329	21	7 5.8	19.5
149893 2005 RD_{30}	16.2	X	86.96963	208.68512	162.14313	5.89814	0.1736993	0.26549929	2.3975102	21	—	—
149894 2005 RD_{33}	15.8	X	167.41288	233.64770	128.35956	14.38651	0.1594146	0.21581918	2.7525973	21	2 21.2	20.2
149895 2005 RN_{44}	15.7	X	234.59695	215.96685	102.62647	8.58442	0.0977042	0.21970520	2.7200434	21	3 5.2	19.9
149896 2005 SD_{1}	15.9	X	104.91899	142.23783	215.53968	1.98098	0.1613372	0.20162041	2.8803575	21	—	—
149897 2005 ST_{7}	16.2	X	334.91658	239.14253	10.36069	1.62965	0.0122198	0.22334871	2.6903807	21	4 15.3	19.8
149898 2005 SG_{8}	14.7	X	289.07996	340.35780	50.49091	11.48380	0.0686254	0.17649194	3.1476478	21	8 17.4	19.2
149899 2005 SC_{20}	17.0	X	339.68913	194.10122	96.71719	4.39386	0.1390970	0.29671345	2.2262703	21	6 2.5	18.8
149900 2005 SK_{24}	15.9	X	221.32695	246.88962	105.95208	6.86205	0.0333033	0.22376824	2.6870170	21	4 5.3	19.8
149901 2005 SK_{35}	15.9	X	347.24810	8.82400	111.92693	3.09550	0.0183836	0.20283049	2.8688900	21	—	—
149902 2005 SR_{35}	15.1	X	278.81932	24.56606	35.61310	9.85994	0.0801503	0.17894157	3.1188552	21	9 8.3	19.5
149903 2005 SE_{37}	16.2	X	3.13904	122.55414	20.15808	3.09309	0.0933078	0.20986868	2.8043850	21	—	—
149904 2005 SB_{38}	15.9	X	50.94423	330.71838	54.92361	2.31125	0.0994783	0.19882584	2.9072843	21	—	—
149905 2005 SF_{45}	16.4	X	60.42333	23.78763	243.84302	3.03954	0.0845462	0.24246205	2.5470660	21	9 17.6	19.7
149906 2005 SM_{45}	15.6	X	39.81804	291.23294	208.43495	8.58017	0.0988999	0.21387702	2.7692360	21	2 19.2	19.0
149907 2005 SB_{46}	16.8	X	199.00002	46.30335	241.13845	1.86439	0.1608558	0.27210194	2.3585674	21	—	—
149908 2005 SO_{50}	16.2	X	38.11379	252.84064	183.42596	1.81689	0.0440671	0.20291505	2.8680929	21	—	—
149909 2005 SY_{52}	15.1	X	263.30398	344.21390	31.47892	6.42814	0.1425689	0.17148093	3.2086733	21	6 9.7	19.9
149910 2005 SA_{66}	14.3	X	235.64329	52.49365	35.93798	23.40003	0.0988805	0.17577313	3.1562233	21	8 27.9	19.4
149911 2005 SE_{69}	16.8	X	28.27280	21.70335	258.83257	2.14899	0.0724665	0.24061347	2.5600951	21	8 16.9	19.7
149912 2005 SL_{73}	14.7	X	261.57188	357.67070	41.53482	9.71461	0.0989893	0.17193589	3.2030104	21	7 15.4	19.4
149913 2005 SU_{73}	15.6	X	169.32939	27.97628	331.64069	12.09964	0.1802513	0.27786543	2.3258393	21	2 12.8	19.1
149914 2005 SB_{76}	16.5	X	340.94609	233.85005	182.20078	0.43751	0.1447553	0.19055148	2.9908491	21	12 1.0	19.9
149915 2005 SA_{88}	16.6	X	106.70758	170.75814	22.08735	4.92308	0.0652100	0.23741329	2.5830493	21	8 8.4	20.1
149916 2005 SK_{101}	16.4	X	189.40941	126.20467	322.14019	3.12639	0.0756726	0.23114276	2.6295566	21	6 26.6	20.1
149917 2005 SN_{102}	16.0	X	313.69216	318.94404	276.56333	4.24189	0.0316004	0.21781898	2.7357237	21	2 24.4	19.8
149918 2005 SU_{105}	15.7	X	240.89440	214.25544	151.82838	4.17498	0.2015099	0.22626703	2.6671976	21	4 29.6	20.0
149919 2005 SR_{106}	15.8	X	343.62377	40.05203	3.31560	1.94399	0.0773626	0.18979946	2.9987440	21	11 16.0	19.5
149920 2005 SH_{112}	15.7	X	256.32619	37.17642	322.49441	10.99043	0.0620248	0.23060216	2.6336646	21	5 16.8	19.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
149921 2005 SZ_{112}	15.8	X	343.40501	74.42570	320.85945	8.18554	0.1771616	0.18697683	3.0288483	21	11 4.1	19.2
149922 2005 SF_{113}	15.2	X	64.14841	311.74220	18.55723	6.74448	0.1178244	0.19273066	2.9682616	21	12 9.4	19.6
149923 2005 SK_{114}	16.5	X	256.18190	46.94340	311.38283	2.02830	0.0996572	0.23025768	2.6362907	21	5 12.9	20.3
149924 2005 SS_{116}	16.1	X	225.89970	199.20711	157.29537	6.41704	0.0600135	0.22420174	2.6835523	21	4 12.3	20.0
149925 2005 SL_{119}	16.0	X	296.07708	207.79937	105.00647	8.42023	0.2052985	0.23139918	2.6276136	21	4 21.5	19.7
149926 2005 SU_{124}	16.7	X	154.07580	85.00860	241.67329	2.03569	0.0786393	0.26956485	2.3733432	21	—	—
149927 2005 SB_{125}	16.1	X	283.19741	167.66114	158.80714	4.26383	0.1730062	0.23128235	2.6284985	21	4 25.6	19.9
149928 2005 SP_{144}	16.4	X	111.02740	315.12370	136.17164	2.93990	0.0524323	0.22003262	2.7173443	21	3 28.3	19.9
149929 2005 SV_{149}	16.5	X	23.68390	238.93277	40.48088	4.96665	0.1111321	0.23869219	2.5738145	21	8 15.6	19.3
149930 2005 SP_{152}	14.7	X	288.47817	11.82480	55.96471	10.59904	0.0785413	0.17978105	3.1091388	21	10 1.7	19.0
149931 2005 SY_{155}	16.5	X	276.58415	222.23517	324.56145	1.76819	0.1418353	0.26469491	2.4023650	21	—	—
149932 2005 SC_{166}	15.3	X	270.75107	299.72793	88.06488	5.89683	0.0960631	0.17427506	3.1742848	21	7 11.2	19.8
149933 2005 SQ_{179}	15.9	X	103.88031	307.55734	30.32097	6.54879	0.0706315	0.20086080	2.8876148	21	—	—
149934 2005 SD_{191}	15.0	X	240.57992	342.09329	70.72045	6.23742	0.1523267	0.17094519	3.2153737	21	7 1.0	20.0
149935 2005 SQ_{193}	16.1	X	347.11749	248.02020	12.26715	3.40494	0.1708470	0.22856087	2.6493223	21	5 1.4	18.7
149936 2005 SG_{195}	16.0	X	55.36866	173.70776	243.69156	5.30145	0.0974681	0.26925555	2.3751604	21	—	—
149937 2005 SH_{209}	14.9	X	286.35208	271.62190	129.62184	11.01856	0.0977438	0.17658169	3.1465811	21	8 18.6	19.1
149938 2005 ST_{210}	16.4	X	30.22090	214.93598	352.53070	5.60590	0.0959787	0.28976926	2.2616975	21	4 29.7	18.5
149939 2005 SZ_{216}	15.7	X	204.26924	251.84610	83.07201	3.24404	0.0786030	0.21537078	2.7564166	21	2 20.8	19.8
149940 2005 ST_{219}	16.2	X	35.52148	228.65016	336.48070	3.60654	0.0333091	0.22848009	2.6499467	21	5 8.7	19.5
149941 2005 SM_{221}	16.1	X	90.31464	39.83461	248.72293	0.60974	0.0487142	0.18749208	3.0232966	21	11 10.3	20.5
149942 2005 SB_{233}	16.1	X	94.35179	183.80684	203.18476	1.52287	0.0758006	0.20319324	2.8654744	21	—	—
149943 2005 SV_{249}	16.4	X	27.92588	297.84299	153.32876	7.32239	0.0695697	0.27004815	2.3705107	21	—	—
149944 2005 SD_{250}	16.7	X	341.96841	184.41956	134.70766	4.11638	0.1420315	0.24153117	2.5536062	21	7 23.8	19.2
149945 2005 SW_{250}	14.8	X	321.34894	328.04570	48.36530	10.48192	0.1069885	0.17961224	3.1110866	21	9 11.0	18.8
149946 2005 SK_{251}	16.3	X	114.66627	331.03735	47.52394	3.91437	0.1780264	0.21071341	2.7968849	21	1 19.5	20.1
149947 2005 SG_{257}	16.4	X	304.12119	206.93062	113.38809	3.69914	0.1544050	0.23449431	2.6044409	21	5 17.5	19.5
149948 2005 TG_{1}	15.8	X	206.64378	62.96585	294.84009	5.53394	0.0660178	0.22278558	2.6949124	21	3 18.3	19.8
149949 2005 TM_{9}	15.9	X	352.18549	35.61359	160.32677	3.31561	0.0333277	0.21665565	2.7455079	21	2 26.6	19.3
149950 2005 TW_{13}	16.2	X	348.64829	141.36254	16.98836	7.55911	0.0482612	0.27429262	2.3459926	21	—	—
149951 Hildakowalski	16.5	X	161.82337	227.09911	88.93776	6.44494	0.1526915	0.27365485	2.3496361	21	—	—
149952 Susanhamann	16.6	X	180.00249	324.22513	319.42333	7.23815	0.1225653	0.26742566	2.3859829	21	—	—
149953 2005 TD_{31}	15.7	X	91.26585	8.69170	34.81355	4.84919	0.0695434	0.20893478	2.8127354	21	1 4.4	19.4
149954 2005 TV_{48}	16.0	X	120.34617	184.75852	126.80367	2.95862	0.0413949	0.19768430	2.9184657	21	—	—
149955 Maron	16.2	X	143.37401	303.75352	300.38966	13.74561	0.0906733	0.25511973	2.4621057	21	11 24.8	20.1
149956 2005 TE_{54}	15.9	X	44.32310	293.14413	66.30031	2.10794	0.0891591	0.19243922	2.9712578	21	12 17.8	19.9
149957 2005 TJ_{72}	15.1	X	315.36097	259.75739	134.03530	10.33348	0.1360337	0.17990830	3.1076725	21	9 18.8	18.9
149958 2005 TY_{73}	15.8	X	156.65551	284.80260	120.42183	6.29368	0.0568455	0.21732427	2.7398738	21	3 27.7	19.7
149959 2005 TF_{74}	15.0	X	42.78112	263.83442	80.78219	11.08862	0.1130115	0.18845969	3.0129395	21	12 1.1	19.1
149960 2005 TV_{77}	16.1	X	212.39678	77.92787	202.96315	1.43721	0.0323351	0.20701895	2.8300622	21	—	—
149961 2005 TB_{90}	15.7	X	14.73562	301.47317	126.19159	3.00063	0.0463706	0.19991190	2.8967451	21	—	—
149962 2005 TQ_{95}	14.9	X	352.44844	235.77722	16.38898	13.33640	0.1699923	0.22878032	2.6476279	21	4 27.4	17.6
149963 2005 TP_{103}	16.5	X	164.90281	12.85278	289.34650	5.76338	0.1359548	0.26815944	2.3816283	21	—	—
149964 2005 TX_{104}	15.5	X	10.48418	67.07311	292.54101	3.96890	0.1419833	0.18536870	3.0463405	21	11 4.6	19.1
149965 2005 TB_{105}	15.3	X	349.95336	46.19561	309.31154	4.72999	0.1870305	0.18102169	3.0949167	21	9 23.7	18.5
149966 2005 TY_{106}	15.8	X	53.00127	337.40253	66.36820	2.89681	0.0367280	0.19951958	2.9005412	21	—	—
149967 2005 TK_{126}	15.8	X	255.59185	101.83963	37.82693	4.49220	0.0125600	0.18949921	3.0019107	21	11 22.4	19.8
149968 Trondal	16.3	X	69.32762	70.46348	91.52628	2.71427	0.0209504	0.22337724	2.6901517	21	4 29.6	19.7
149969 2005 TE_{154}	15.3	X	354.79270	19.95296	323.20661	5.28298	0.1496103	0.18136616	3.0909968	21	9 15.7	18.7
149970 2005 TF_{155}	16.5	X	226.62818	5.54036	339.98645	4.77365	0.0780345	0.22256024	2.6967312	21	3 26.1	20.6
149971 2005 TO_{159}	15.9	X	82.20637	238.30628	321.96976	3.72743	0.0306691	0.23274274	2.6174915	21	7 9.7	19.3
149972 2005 TQ_{180}	15.1	X	255.27816	288.16133	134.07692	5.99920	0.1544625	0.17413774	3.1759533	21	7 27.9	19.7
149973 2005 TV_{183}	16.1	X	243.97877	278.12758	157.69950	9.74917	0.0900466	0.23993023	2.5649530	21	8 11.2	19.7
149974 2005 TY_{191}	14.3	X	254.95630	33.89117	264.98960	8.69231	0.0608958	0.15239367	3.4712942	21	3 6.9	19.6
149975 2005 UY_{1}	15.7	X	267.89813	238.45340	217.03169	0.37547	0.1034252	0.18061303	3.0995834	21	9 30.6	20.0
149976 2005 UO_{6}	15.2	X	80.48521	45.18469	225.84433	2.70674	0.0625067	0.18024262	3.1038285	21	10 8.6	19.6
149977 2005 UK_{9}	16.1	X	244.78078	334.48113	112.17219	4.78214	0.0468780	0.24009628	2.5637702	21	9 5.2	19.4
149978 2005 UP_{9}	16.2	X	169.31282	352.19652	62.56021	2.93547	0.0872062	0.22197179	2.7014952	21	4 22.7	20.2
149979 2005 UK_{10}	15.6	X	93.85409	314.39543	152.68979	6.45650	0.0609741	0.21673091	2.7448723	21	3 28.5	19.2
149980 2005 UU_{19}	15.5	X	63.21222	138.56328	46.21395	10.13044	0.1699434	0.21965521	2.7204560	21	6 11.2	18.8
149981 2005 UO_{22}	16.5	X	284.76052	71.14758	248.51379	3.12938	0.1921098	0.22840980	2.6504903	21	4 13.7	20.4
149982 2005 UJ_{23}	15.5	X	142.39228	322.34491	345.46040	1.37599	0.0746593	0.19911655	2.9044539	21	—	—
149983 2005 UF_{55}	15.1	X	301.72490	2.84126	31.98346	11.99759	0.1253772	0.17641339	3.1485820	21	9 2.5	19.3
149984 2005 UT_{56}	15.9	X	4.90420	347.63749	308.36939	4.82588	0.1087459	0.23636813	2.5906581	21	8 3.0	18.7
149985 2005 UL_{57}	16.3	X	166.24645	139.09760	31.88727	5.03125	0.0937491	0.24026214	2.5625901	21	9 19.2	20.1
149986 2005 UV_{58}	15.6	X	43.19502	78.44062	267.41092	1.62549	0.1609484	0.18743458	3.0239149	21	12 9.0	19.7
149987 2005 UW_{62}	15.9	X	158.41744	238.63243	74.87946	3.16484	0.0439283	0.19987299	2.8971211	21	—	—
149988 2005 UK_{64}	15.2	X	3.18274	298.95682	97.37933	7.71169	0.0797172	0.18678823	3.0308868	21	12 6.4	19.1
149989 2005 UD_{68}	15.4	X	5.41090	294.91802	90.21425	5.29581	0.0926305	0.18762153	3.0219059	21	11 26.9	19.2
149990 2005 UM_{68}	15.6	X	276.21193	221.53244	130.86846	12.49241	0.0235164	0.22922214	2.6442246	21	6 13.3	19.3
149991 2005 UA_{71}	15.8	X	135.37504	177.66427	341.96638	8.40978	0.1781614	0.23071004	2.6328435	21	8 7.1	20.0
149992 2005 UC_{71}	15.5	X	297.85797	300.70843	347.91542	10.94000	0.0569919	0.22409509	2.6844037	21	4 7.0	19.1
149993 2005 UN_{72}	15.1	X	186.40740	245.12417	48.50224	9.66186	0.0942276	0.20367355	2.8609677	21	—	—
149994 2005 UZ_{73}	14.8	X	354.11152	259.95859	78.66149	6.65255	0.0432549	0.17483505	3.1675031	21	9 10.7	19.1
149995 2005 UH_{75}	15.3	X	260.82204	37.48302	297.93225	13.04751	0.2159941	0.22778503	2.6553346	21	3 31.0	19.8
149996 2005 UM_{114}	14.8	X	287.32753	299.37163	92.60379	10.00065	0.0936253	0.17394064	3.1783521	21	8 9.6	19.2
149997 2005 UT_{124}	15.1	X	2.08135	51.92585	239.16911	5.72894	0.0599771	0.16955733	3.2328955	21	7 17.5	19.3
149998 2005 UK_{130}	15.4	X	344.81313	148.10954	107.06245	14.29636	0.1398027	0.22476266	2.6790857	21	5 1.8	18.7
149999 2005 UH_{132}	14.6	X	346.75594	45.19370	78.57011	18.38074	0.0820872	0.19789447	2.9163990	21	—	—
150000 2005 UC_{142}	14.4	X	296.60143	351.92672	77.38826	12.71465	0.0484921	0.18135992	3.0910677	21	10 19.5	18.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
150001 2005 UJ_{151}	15.9	X	163.60425	328.37622	36.61969	3.34595	0.1022053	0.21082529	2.7958954	21	2 17.1	20.0
150002 2005 UZ_{155}	15.4	X	297.77973	315.55769	123.19951	11.88015	0.0981435	0.18388000	3.0627606	21	10 27.2	19.5
150003 2005 UH_{159}	15.5	X	341.79459	249.33329	94.74373	4.39455	0.1428475	0.17675729	3.1444969	21	8 26.9	19.1
150004 2005 UG_{163}	16.0	X	348.89468	172.31827	354.71588	2.25126	0.0371609	0.20834632	2.8180292	21	1 18.4	19.6
150005 2005 UG_{166}	15.8	X	122.95862	247.94889	18.85626	1.05128	0.1047580	0.18913294	3.0057852	21	11 24.3	20.3
150006 2005 UO_{200}	15.7	X	16.18315	44.68109	212.70105	6.34017	0.1646088	0.22977074	2.6400140	21	6 29.8	18.3
150007 2005 UD_{204}	15.3	X	267.30417	289.51514	164.22958	1.25688	0.0157207	0.18025742	3.1036586	21	10 10.6	19.7
150008 2005 UD_{216}	15.2	X	337.41581	297.44685	88.79265	3.10761	0.0638849	0.18241290	3.0791607	21	10 16.7	19.1
150009 2005 UY_{216}	16.3	X	98.86137	196.96641	133.95543	2.91869	0.0119373	0.19492752	2.9459177	21	—	—
150010 2005 UJ_{217}	15.1	X	110.43186	275.56192	61.99530	11.79095	0.1177539	0.19699000	2.9253192	21	—	—
150011 2005 UO_{231}	15.9	X	76.39073	238.36937	53.84105	1.62022	0.1677482	0.18546990	3.0452323	21	11 13.3	20.3
150012 2005 UQ_{241}	16.0	X	110.38246	42.73538	302.25523	2.54267	0.1101381	0.19716269	2.9236108	21	—	—
150013 2005 UU_{254}	15.9	X	357.94711	233.17155	114.65906	1.53721	0.1615135	0.18187929	3.0851803	21	10 1.3	19.3
150014 2005 UC_{343}	15.5	X	51.59996	254.41974	108.27070	11.66037	0.1559199	0.19445876	2.9506501	21	—	—
150015 2005 UD_{350}	15.0	X	328.93986	219.61114	141.67646	11.76223	0.1082997	0.17623732	3.1506788	21	8 28.9	18.8
150016 2005 UB_{353}	15.3	X	149.99470	123.37927	13.53399	13.70464	0.1292938	0.22867539	2.6484377	21	7 22.9	19.7
150017 2005 UY_{382}	15.4	X	38.50144	205.56810	103.41681	5.79821	0.1567513	0.18137879	3.0908532	21	10 19.2	19.4
150018 2005 UF_{386}	15.3	X	162.28410	206.35924	137.75605	14.09680	0.1301882	0.21046107	2.7991201	21	1 22.3	19.6
150019 2005 UB_{398}	15.8	X	159.50066	92.48177	302.61032	5.38010	0.0162424	0.21567160	2.7538529	21	3 9.4	19.6
150020 2005 UQ_{402}	16.3	X	39.83803	141.78668	87.10111	3.07554	0.0186713	0.22985114	2.6393984	21	6 17.2	19.5
150021 2005 UB_{448}	15.6	X	23.50866	196.73317	331.93311	3.92458	0.0536402	0.21538802	2.7562696	21	3 6.1	19.1
150022 2005 UB_{485}	15.7	X	194.50351	223.65095	122.95601	7.21882	0.0645499	0.21453618	2.7635608	21	2 24.8	19.9
150023 2005 UK_{493}	15.4	X	245.79153	195.32916	115.66493	14.59651	0.0987368	0.22069322	2.7119191	21	3 8.4	19.7
150024 2005 UM_{493}	15.6	X	201.55714	241.83273	138.60935	15.65806	0.0792669	0.22327600	2.6909648	21	4 18.9	19.9
150025 2005 VD_{6}	16.6	X	339.90637	206.10917	151.95096	3.19789	0.0166665	0.24103887	2.5570820	21	9 20.1	19.8
150026 2005 VU_{6}	15.1	X	78.77457	292.87566	23.69214	1.76417	0.1428810	0.19009232	2.9956633	21	12 12.3	19.5
150027 2005 VB_{13}	15.8	X	75.94516	12.96323	318.20328	2.28310	0.0624842	0.19077284	2.9885351	21	12 17.3	20.1
150028 2005 VH_{33}	14.9	X	231.59007	200.96349	270.20981	22.02988	0.1096058	0.24093731	2.5578006	21	8 28.7	19.1
150029 2005 VR_{34}	15.3	X	61.46082	142.13848	43.98591	27.85390	0.1546386	0.28737192	2.2742585	21	5 28.7	17.9
150030 2005 VD_{60}	15.3	X	316.61633	91.05807	321.56176	7.90868	0.1296952	0.18195132	3.0843660	21	10 9.6	19.2
150031 2005 VC_{97}	15.8	X	222.47890	73.96315	223.14950	3.35857	0.1819372	0.21092530	2.7950115	21	1 22.0	20.5
150032 2005 VE_{98}	15.8	X	141.38912	237.95690	46.05562	2.19609	0.0470419	0.19256012	2.9700139	21	—	—
150033 2005 VQ_{106}	15.0	X	317.03154	236.23196	222.18563	2.04788	0.1893814	0.12617403	3.9369153	21	11 24.4	19.5
150034 2005 VZ_{115}	16.0	X	287.60175	244.48217	13.01671	4.37832	0.0188233	0.21209371	2.7847370	21	2 25.3	19.7
150035 Williamson	14.8	X	26.69645	266.98648	66.65350	11.33645	0.0707580	0.17940117	3.1135262	21	10 23.2	19.0
150036 2005 WD_{3}	15.8	X	326.46778	181.85724	149.83178	5.19888	0.2520250	0.23701503	2.5859420	21	6 25.5	18.1
150037 2005 WX_{4}	14.5	X	237.01515	335.83046	81.81008	13.36459	0.0650607	0.16921160	3.2372976	21	7 12.6	19.3
150038 2005 WL_{19}	14.4	X	56.36007	172.76096	107.19899	17.82530	0.0791125	0.17338330	3.1851597	21	9 30.3	19.1
150039 2005 WZ_{159}	15.4	X	174.75410	243.04943	127.34830	9.50614	0.2651335	0.21812698	2.7331478	21	3 15.6	20.3
150040 2005 WJ_{163}	15.9	X	196.76920	289.69324	329.75290	1.00387	0.0353382	0.19420170	2.9532533	21	—	—
150041 2005 WO_{163}	14.7	X	127.69397	333.30256	269.54314	9.16234	0.1757671	0.17803228	3.1294658	21	10 31.9	20.0
150042 2005 WK_{179}	14.7	X	278.35594	322.10851	102.37830	12.67832	0.0322037	0.17449319	3.1716389	21	9 20.8	19.3
150043 2005 WA_{185}	14.3	X	111.33137	100.92130	136.84428	17.00026	0.0707965	0.17713246	3.1400551	21	10 10.5	19.2
150044 2005 WX_{187}	15.0	X	185.36952	355.62162	145.06792	13.92765	0.1029642	0.23169975	2.6253407	21	8 29.8	18.9
150045 2005 WC_{194}	14.9	X	163.60754	49.42787	121.16418	8.87141	0.0653041	0.17460258	3.1703140	21	9 11.9	19.7
150046 Cynthiaconrad	15.5	X	68.76839	309.15613	35.34646	10.94547	0.0322356	0.19448457	2.9503890	21	12 21.2	19.8
150047 2005 YB_{17}	16.3	X	40.85228	119.40206	121.30032	2.12768	0.1041635	0.22684728	2.6626475	21	7 15.4	19.2
150048 2005 YV_{94}	15.2	X	242.25970	28.46963	342.30605	12.54435	0.1755026	0.22588529	2.6702018	21	5 1.9	19.7
150049 2006 OE_{1}	16.0	X	151.61436	192.00531	120.07419	7.80593	0.0761578	0.22349732	2.6891880	21	—	—
150050 2006 PT_{12}	15.9	X	355.42241	157.39341	208.04588	1.45256	0.0821555	0.20310595	2.8662954	21	10 18.8	19.4
150051 2006 QM_{10}	17.0	X	55.64765	306.03854	38.73026	4.07665	0.2081715	0.27728357	2.3290919	21	—	—
150052 2006 QO_{10}	16.0	X	79.86569	209.99017	122.52254	4.25220	0.0969776	0.21261655	2.7801699	21	12 31.5	20.1
150053 2006 QW_{54}	16.3	X	185.81388	155.06038	160.10100	2.37813	0.2014069	0.22902920	2.6457094	21	1 11.7	20.7
150054 2006 QO_{62}	16.3	X	303.07328	358.78013	34.06911	3.30212	0.1979159	0.26215618	2.4178498	21	8 25.1	18.5
150055 2006 QM_{113}	16.6	X	52.91695	124.58009	193.34297	10.29701	0.2602484	0.27139928	2.3626366	21	12 14.7	20.2
150056 2006 QN_{137}	16.5	X	157.41245	267.83045	119.92650	8.73513	0.1386613	0.23383815	2.6093108	21	3 12.3	20.5
150057 2006 QT_{144}	15.8	X	15.74293	246.41414	175.17191	7.68816	0.2145498	0.21072474	2.7967846	21	—	—
150058 2006 QJ_{147}	16.6	X	342.72947	132.19004	161.98429	4.93021	0.1285378	0.25413553	2.4684583	21	6 17.5	19.0
150059 2006 QA_{169}	15.4	X	119.34412	111.99060	5.33251	15.07849	0.1817039	0.23541208	2.5976674	21	5 21.8	19.5
150060 2006 RL_{4}	17.0	X	161.14830	186.02619	161.74925	2.00582	0.0964426	0.29418170	2.2390250	21	1 6.4	19.6
150061 2006 RE_{10}	15.8	X	336.12383	338.96235	350.94156	1.11718	0.0600056	0.18997216	2.9969263	21	8 1.4	19.7
150062 2006 RN_{17}	15.3	X	156.75129	10.49804	312.45646	11.04791	0.0970494	0.22263545	2.6961239	21	—	—
150063 2006 RA_{40}	17.1	X	348.72027	290.55150	54.05538	3.21723	0.2290005	0.26232797	2.4167941	21	9 26.0	18.5
150064 2006 RJ_{41}	16.0	X	125.27481	159.14613	154.90877	6.40631	0.0584119	0.21561825	2.7543071	21	—	—
150065 2006 RG_{48}	16.0	X	81.60635	168.01745	187.00192	9.49894	0.1557797	0.21241402	2.7819368	21	—	—
150066 2006 SN_{7}	14.5	X	201.24617	168.76473	208.76075	18.48303	0.0117775	0.17461576	3.1701545	21	4 13.9	19.1
150067 2006 SJ_{8}	15.2	X	323.72423	166.13506	170.87830	14.76964	0.1381037	0.18714550	3.0270281	21	7 13.2	19.2
150068 2006 SK_{12}	16.9	X	98.91131	265.88911	118.69259	6.42494	0.1421692	0.28609768	2.2810063	21	—	—
150069 2006 SW_{55}	14.9	X	248.41961	238.92581	160.72440	16.00953	0.0727630	0.18246228	3.0786050	21	7 1.9	19.7
150070 2006 SJ_{61}	15.6	X	170.42002	104.31620	351.42914	12.55091	0.2119439	0.24175336	2.5520413	21	6 17.6	20.1
150071 2006 SZ_{110}	15.4	X	324.60816	198.76612	116.26641	3.80966	0.2139685	0.18658674	3.0330684	21	6 5.6	18.7
150072 2006 SL_{154}	16.3	X	323.33944	287.30097	155.81200	6.36589	0.0870721	0.27207626	2.3587158	21	12 28.4	18.8
150073 2006 SK_{181}	16.5	X	208.38517	309.44838	213.25248	0.80243	0.1222920	0.26668150	2.3904195	21	10 23.0	19.6
150074 2006 SX_{191}	17.1	X	57.61919	255.50924	18.68794	6.58674	0.1035418	0.26264701	2.4148366	21	9 30.6	20.1
150075 2006 SP_{223}	14.5	X	153.43969	329.90104	8.32386	13.75729	0.1485540	0.15588715	3.4192367	21	1 21.7	20.0
150076 2006 ST_{282}	16.3	X	298.85562	132.13896	159.64545	14.81066	0.0953711	0.24269330	2.5454478	21	4 12.2	19.8
150077 2006 SE_{356}	16.3	X	74.62981	257.96649	44.62857	5.98736	0.0357842	0.26638266	2.3922070	21	11 19.7	19.4
150078 2006 TV_{42}	15.3	X	36.80973	299.05661	301.90553	0.66919	0.1004365	0.17775919	3.1326702	21	7 8.4	19.2
150079 2006 TM_{71}	17.0	X	0.55165	142.05396	263.89383	2.41638	0.1728893	0.27065592	2.3669606	21	—	—
150080 2006 UV_{9}	16.7	X	119.45416	241.14141	75.90195	7.42908	0.1250919	0.27637230	2.3342088	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
150081 Steindl	17.1	X	133.30490	246.26419	16.16711	3.84978	0.1801555	0.26951632	2.3736281	21	12 11.7	21.1
150082 2006 UZ_{255}	16.0	X	197.90803	158.85424	233.16274	4.84853	0.2812233	0.23191901	2.6236857	21	4 22.1	20.8
150083 2006 VD_{71}	17.3	X	145.07320	277.69100	77.43735	3.01977	0.1772459	0.28925629	2.2643706	21	1 9.2	20.1
150084 2006 WN_{11}	15.8	X	168.72746	7.64847	10.50634	2.79538	0.2179015	0.22741091	2.6582461	21	3 14.5	20.3
150085 2006 WQ_{14}	16.7	X	198.06187	162.66527	213.67276	5.18621	0.1638211	0.29949711	2.2124542	21	3 27.7	19.9
150086 2006 WW_{61}	15.6	X	88.44423	338.91881	85.77312	15.20676	0.1915266	0.21720917	2.7408417	21	2 16.6	19.2
150087 2006 WC_{175}	16.2	X	326.34902	280.54220	195.55064	1.60021	0.0215957	0.20426943	2.8554011	21	—	—
150088 2006 XY_{16}	16.2	X	150.38432	359.70585	83.15112	5.66407	0.1007221	0.22931503	2.6435105	21	5 9.1	20.0
150089 2006 XL_{30}	15.9	X	68.96667	351.81914	103.41108	12.35239	0.2175178	0.21599529	2.7511009	21	3 1.6	19.0
150090 2006 XA_{61}	16.0	X	263.83895	350.75781	5.91388	0.24165	0.2281615	0.24162558	2.5529410	21	5 4.5	20.0
150091 2006 YQ_{35}	16.8	X	317.08415	121.59859	4.54419	2.61972	0.1292576	0.26606728	2.3940970	21	—	—
150092 4156 *P–L*	15.4	X	310.01446	107.05179	268.00429	2.21624	0.0859768	0.17614167	3.1518192	21	8 17.9	19.5
150093 4197 *P–L*	16.6	X	134.54748	118.04972	265.63186	2.23065	0.2061877	0.21741296	2.7391286	21	2 17.3	20.7
150094 6845 *P–L*	15.7	X	290.80640	280.49988	65.60487	3.90667	0.1967601	0.17639736	3.1487729	21	5 29.2	20.0
150095 1235 *T–2*	17.3	X	106.46835	18.59312	353.96008	2.69117	0.1668747	0.27460303	2.3442243	21	—	—
150096 3023 *T–2*	16.3	X	93.48430	355.13720	16.26435	6.84581	0.2158499	0.27388958	2.3482935	21	—	—
150097 4319 *T–2*	16.5	X	125.55013	295.02459	54.53465	3.03037	0.2362147	0.27478397	2.3431951	21	—	—
150098 5086 *T–2*	16.4	X	141.30822	52.22517	304.39281	6.31309	0.1184966	0.27584037	2.3372087	21	1 1.2	19.3
150099 1137 *T–3*	15.2	X	308.32366	83.91152	338.75999	9.32998	0.0628122	0.17921167	3.1157207	21	10 15.5	19.4
150100 1229 *T–3*	16.7	X	61.06930	50.05823	348.20750	8.40756	0.2489809	0.27482955	2.3429361	21	—	—
150101 2428 *T–3*	15.2	X	339.88840	351.21971	6.24076	3.61707	0.2256912	0.17825255	3.1268872	21	9 6.6	18.1
150102 3503 *T–3*	16.3	X	131.99648	186.26467	177.49753	1.32990	0.2420733	0.27812526	2.3243905	21	1 15.8	19.4
150103 4262 *T–3*	16.2	X	224.11902	330.00691	65.51162	6.07694	0.2132483	0.24027581	2.5624930	21	5 18.8	20.3
150104 5007 *T–3*	16.0	X	169.17140	242.12957	101.01007	7.46794	0.3017164	0.21205478	2.7850779	21	2 9.2	20.9
150105 5062 *T–3*	15.7	X	216.38709	208.45525	116.69589	9.26897	0.2179021	0.21408468	2.7674450	21	2 20.5	20.5
150106 5084 *T–3*	16.9	X	29.88280	264.15820	112.84373	5.94453	0.2468167	0.27231898	2.3573140	21	—	—
150107 1978 VL_4	16.9	X	58.96126	203.20050	229.93429	4.09043	0.2299504	0.28164623	2.3049778	21	—	—
150108 1979 QG_3	16.8	X	185.25667	345.80674	336.43812	0.65004	0.2430611	0.27077322	2.3662770	21	1 16.5	20.5
150109 1981 EA_{17}	15.9	X	35.96421	309.71896	323.23376	5.12414	0.0831918	0.25241179	2.4796837	21	8 21.4	18.8
150110 1981 EA_{30}	15.5	X	121.13902	8.92806	171.78109	16.06303	0.2458406	0.17738270	3.1371013	21	8 19.4	20.9
150111 1991 TK_{15}	16.2	X	306.77100	244.52867	198.44155	12.04758	0.2473732	0.22989075	2.6390951	21	11 5.4	18.4
150112 1991 TY_{15}	15.7	X	69.41967	47.03781	48.73946	9.89285	0.1733200	0.20925329	2.8098805	21	2 26.9	19.1
150113 1991 VX_4	15.9	X	63.66571	21.70043	24.06060	7.39343	0.2566443	0.27167573	2.3610336	21	—	—
150114 1991 VA_{11}	16.1	X	129.74397	250.77422	182.66472	3.60846	0.0772609	0.21374251	2.7703977	21	3 31.9	20.0
150115 1992 SB_3	16.2	X	23.35705	261.27062	50.30410	1.08468	0.1397496	0.23916109	2.5704492	21	10 2.8	19.1
150116 1993 FE_{33}	17.0	X	296.49609	111.40221	130.33888	2.57522	0.1743282	0.27615784	2.3354172	21	1 13.8	20.4
150117 1993 FF_{43}	15.4	X	339.09954	57.36718	176.53315	9.28017	0.1005960	0.21096185	2.7946886	21	3 23.7	18.8
150118 Petersberg	15.2	X	62.57880	7.45937	329.59087	3.05519	0.2965533	0.18204941	3.0832580	21	—	—
150119 1993 TM_{10}	17.1	X	266.71155	72.89200	305.67227	3.05614	0.1190962	0.23827600	2.5768107	21	6 19.9	20.6
150120 1993 TS_{24}	15.1	X	63.04865	142.73098	179.51114	8.65757	0.1535131	0.17947653	3.1126547	21	12 2.9	19.7
150121 1994 AB_5	16.6	X	223.23242	76.73658	64.44101	1.23625	0.0886517	0.23970918	2.5665296	21	10 13.3	20.0
150122 1994 CC_2	15.2	X	91.98834	48.76149	155.69473	18.51457	0.3255891	0.22735959	2.6586461	21	9 4.1	19.4
150123 1994 PY_6	16.4	X	164.95220	176.49894	181.75173	2.01446	0.2250113	0.27518759	2.3409034	21	2 9.5	20.0
150124 1994 PU_{22}	17.1	X	187.83929	339.20614	355.62492	4.22742	0.1533639	0.27568418	2.3380914	21	1 29.1	20.6
150125 1994 PQ_{29}	16.7	X	145.29832	166.21495	206.32751	3.64067	0.1895261	0.27418833	2.3465874	21	2 3.9	20.1
150126 1994 SD_8	17.2	X	116.08974	171.90857	202.03883	0.80617	0.2003206	0.27007725	2.3703404	21	1 4.0	19.9
150127 1994 SD_9	16.1	X	112.58306	146.68196	171.21116	1.29997	0.1167260	0.19146537	2.9813243	21	—	—
150128 1994 UP_7	15.3	X	166.42491	15.27454	230.53495	8.97265	0.0753114	0.18753223	3.0228651	21	12 12.2	19.9
150129 Besshi	16.5	X	203.57944	318.86422	98.21661	5.39736	0.2318911	0.24361979	2.5389901	21	5 28.3	20.8
150130 1995 AN_2	16.7	X	123.79655	317.49318	115.51163	4.75528	0.0678957	0.23244657	2.6197144	21	3 22.6	20.2
150131 1995 BO_7	15.5	X	143.39822	324.27260	321.69770	10.06910	0.1903293	0.25334731	2.4735756	21	—	—
150132 1995 DK_9	17.1	X	246.75981	299.09922	154.60732	7.32183	0.1482297	0.24380626	2.5376954	21	9 1.3	20.7
150133 1995 OG_{16}	15.8	X	43.08539	234.76026	289.14637	9.66341	0.0578114	0.21701436	2.7424817	21	3 23.4	19.5
150134 1995 SP_{48}	16.0	X	69.33821	299.91273	135.41997	2.89269	0.0702238	0.20482681	2.8502187	21	1 14.5	19.7
150135 1995 UH_8	16.5	X	116.63867	161.74460	226.12400	7.44466	0.2606253	0.28015593	2.3131449	21	1 28.4	19.4
150136 1995 VW_4	17.0	X	125.98752	244.28415	135.78268	2.67746	0.2544319	0.28107213	2.3081155	21	1 31.4	19.9
150137 1995 VV_{14}	14.8	X	269.63377	70.95677	234.07666	24.79725	0.2214066	0.17351666	3.1835274	21	3 6.2	20.4
150138 1995 WR_1	15.2	X	90.32147	7.23445	58.24227	24.71384	0.2244153	0.27981963	2.3149979	21	2 19.9	18.3
150139 1995 WW_{38}	16.6	X	298.46521	138.29072	303.17589	2.04975	0.2011756	0.18801936	3.0176417	21	10 12.4	20.3
150140 1995 YF_6	15.5	X	288.57758	43.60158	230.23557	7.45021	0.2705932	0.21010567	2.8022757	21	2 11.1	20.1
150141 1995 YE_7	17.0	X	23.82668	212.95400	187.31462	2.92104	0.1416119	0.27012749	2.3700465	21	—	—
150142 1995 YQ_7	16.4	X	38.17914	4.86040	202.72939	4.60104	0.0871098	0.28812467	2.2702957	21	5 18.0	18.4
150143 1996 AC_7	15.5	X	306.09564	87.75223	319.15736	6.94491	0.1506469	0.18073535	3.0981848	21	9 13.7	19.2
150144 1996 AV_{11}	16.9	X	342.40790	224.48988	248.19634	5.55714	0.0879877	0.26769722	2.3843691	21	—	—
150145 Uvic	15.9	X	234.95236	239.57591	244.88435	6.07044	0.1726772	0.18069461	3.0986504	21	9 16.5	20.7
150146 1996 ES_9	16.1	X	212.52655	99.78301	46.04370	1.74564	0.1279590	0.17797574	3.1301286	21	9 27.4	20.9
150147 1996 EO_{10}	16.1	X	63.92100	216.62302	158.76412	9.74566	0.1183012	0.26460196	2.4029276	21	—	—
150148 1996 FX_3	17.3	X	278.18590	67.98611	132.63269	2.68426	0.0938109	0.26530228	2.3986970	21	—	—
150149 1996 JF_{11}	16.1	X	174.31485	136.15730	154.18326	6.37445	0.1086722	0.25935961	2.4351992	21	—	—
150150 1996 TV_{23}	15.8	X	147.77390	266.71740	205.21027	3.49269	0.0546733	0.22521167	2.6755237	21	6 8.5	19.5
150151 1996 TY_{29}	16.1	X	93.30684	212.49990	210.65708	5.78286	0.2384685	0.21163148	2.7887904	21	2 22.7	19.8
150152 1996 VL_{16}	16.2	X	293.43280	139.26617	108.42747	1.07110	0.0164827	0.21462330	2.7628129	21	2 19.1	19.9
150153 1997 AB	16.1	X	48.91093	333.67359	98.00684	8.21635	0.1737096	0.20415572	2.8564613	21	—	—
150154 1997 EG_{16}	16.1	X	328.57353	306.45410	187.41136	1.55737	0.0650409	0.19475475	2.9476597	21	—	—
150155 1997 EJ_{32}	15.8	X	10.77710	107.87052	0.73614	3.70177	0.0429304	0.19628300	2.9323396	21	—	—
150156 1997 EM_{32}	16.9	X	137.84508	45.64757	2.49162	5.67250	0.1967071	0.28640187	2.2793909	21	3 14.9	20.1
150157 1997 GX_{25}	16.3	X	73.42710	123.10983	30.77759	25.26745	0.2139597	0.28940748	2.2635819	21	5 10.5	18.8
150158 1997 HG_2	15.3	X	256.67068	269.31738	204.17413	9.17476	0.0959975	0.18025512	3.1036851	21	10 9.5	19.7
150159 1997 JW_1	16.4	X	9.72270	181.83177	51.02017	7.10475	0.1613576	0.28768096	2.2726295	21	5 1.4	17.9
150160 1997 OF_2	15.7	X	297.25375	32.44665	286.89731	3.67705	0.2013414	0.24027042	2.5625313	21	4 25.7	19.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
150161 1997 PE_5	16.0	X	143.94220	165.13194	177.49099	2.06860	0.2291722	0.26468367	2.4024330	21	1 3.1	19.4
150162 1997 SO	15.7	X	136.59101	320.78241	3.79574	6.20286	0.2414014	0.26169205	2.4207078	21	—	—
150163 1997 ST_{26}	16.2	X	67.92785	354.86156	8.99303	3.94388	0.2032497	0.25722370	2.4486614	21	—	—
150164 1997 TP_5	16.8	X	276.80681	312.95480	51.97738	3.30944	0.2550590	0.23923904	2.5698908	21	5 25.6	20.7
150165 1997 UG_9	15.7	X	180.98658	13.80774	34.10636	8.04814	0.3806733	0.22987525	2.6392138	21	5 1.2	20.8
150166 1997 WS_1	16.6	X	268.74155	334.04078	47.07026	2.58835	0.2151057	0.23765641	2.5812874	21	6 12.3	20.4
150167 1997 XB_1	16.1	X	150.22111	350.27151	75.02651	10.80931	0.3562525	0.22539241	2.6740931	21	5 5.4	21.1
150168 1998 BJ_{27}	16.6	X	111.94092	121.48369	324.41532	1.67730	0.0671297	0.21878846	2.7276362	21	3 23.0	20.3
150169 1998 BG_{39}	16.1	X	237.21649	41.64376	319.10013	2.30688	0.2025916	0.22652534	2.6651697	21	4 17.1	20.4
150170 1998 BW_{45}	15.4	X	215.76819	64.42897	315.49016	5.89772	0.2755667	0.22651842	2.6652239	21	4 18.6	20.2
150171 1998 DV_{19}	15.6	X	82.05475	166.72894	35.70335	4.77880	0.1690459	0.22287139	2.6942207	21	8 4.1	19.3
150172 1998 DV_{25}	16.3	X	227.87059	12.16880	0.08857	5.27368	0.1313247	0.22202454	2.7010672	21	4 26.8	20.4
150173 1998 DO_{28}	15.8	X	357.05519	106.65771	147.21414	5.85795	0.0334989	0.21986678	2.7187105	21	5 23.0	19.3
150174 1998 DU_{32}	15.2	X	356.79210	126.98089	102.47629	13.16267	0.1202222	0.21422465	2.7662393	21	4 20.0	18.6
150175 1998 ED_{11}	15.5	X	88.89805	140.50227	1.61206	13.71566	0.1349629	0.21959481	2.7209548	21	5 11.4	19.3
150176 1998 EL_{20}	15.6	X	96.74776	190.71446	344.63760	11.52415	0.2011927	0.22379810	2.6867780	21	7 22.5	19.7
150177 1998 FR	15.9	X	149.54576	210.27681	125.25874	3.03161	0.0753327	0.20391598	2.8586997	21	—	—
150178 1998 FX_8	15.9	X	348.52651	99.42160	126.38922	2.85297	0.1074861	0.21301226	2.7767257	21	3 27.4	19.1
150179 1998 FN_{15}	15.6	X	68.44203	316.26106	219.05990	14.00866	0.1827031	0.21885546	2.7270794	21	6 9.3	19.1
150180 1998 FT_{15}	15.7	X	53.32090	124.67915	359.72367	10.65789	0.1482103	0.21237926	2.7822404	21	3 2.9	18.7
150181 1998 FR_{24}	16.0	X	87.79185	273.20549	262.43390	2.10753	0.1977016	0.22233215	2.6985753	21	7 8.6	19.7
150182 1998 GM_7	15.1	X	35.89927	114.33891	145.91899	14.22517	0.1730252	0.22170966	2.7036241	21	8 13.8	18.2
150183 1998 HL_6	15.5	X	20.42945	59.78054	142.93635	4.21329	0.1221083	0.21426645	2.7658796	21	4 19.4	18.5
150184 1998 HK_{28}	15.6	X	3.41540	176.89177	6.98615	7.94461	0.1525326	0.21164817	2.7886437	21	2 20.8	18.7
150185 1998 HO_{144}	15.2	X	342.37673	164.98205	100.37447	2.83839	0.1365252	0.17282806	3.1919779	21	5 11.3	19.0
150186 1998 KF_{43}	15.4	X	4.08033	237.50122	114.05933	12.45108	0.1256869	0.18352429	3.0667168	21	10 20.4	19.3
150187 1998 MH_7	15.4	X	318.87227	41.92455	285.89702	3.21828	0.1034425	0.16918075	3.2376912	21	6 28.7	19.5
150188 1998 MT_{16}	15.8	X	11.41707	348.59125	340.48674	1.05711	0.2430067	0.17465836	3.1696389	21	10 7.6	19.0
150189 1998 MV_{38}	16.3	X	281.62052	198.49425	123.13530	7.51461	0.1592379	0.29343759	2.2428086	21	4 15.6	19.4
150190 1998 QB_5	16.2	X	95.02704	153.27148	228.24786	6.00176	0.1198668	0.27456036	2.3444672	21	—	—
150191 1998 QL_{45}	16.5	X	206.51687	119.61205	236.95346	4.15621	0.2669224	0.28449007	2.2895914	21	3 11.9	20.6
150192 1998 QY_{56}	16.9	X	6.79453	234.92450	175.93804	5.35480	0.2303194	0.26454199	2.4032907	21	—	—
150193 1998 QG_{88}	16.3	X	225.39274	93.08445	257.62780	4.73258	0.2206803	0.28625134	2.2801900	21	3 18.9	20.1
150194 1998 QB_{100}	16.7	X	162.44332	303.19694	23.65648	2.63845	0.1918641	0.27662422	2.3327914	21	—	—
150195 1998 QT_{100}	16.6	X	127.10169	267.02653	107.88027	4.03933	0.1713177	0.27631563	2.3345280	21	1 14.7	19.5
150196 1998 RA_4	16.3	X	273.70529	335.27378	343.06406	10.34469	0.1917845	0.28916589	2.2648425	21	3 23.3	19.7
150197 1998 RS_9	17.1	X	356.81047	35.75722	155.35530	2.99659	0.0955854	0.28441087	2.2900164	21	2 5.5	19.2
150198 1998 RE_{25}	14.9	X	93.44953	125.38420	188.83213	6.50976	0.2962140	0.18171755	3.0870107	21	—	—
150199 1998 RX_{34}	16.5	X	134.85957	23.48809	8.31961	5.66398	0.2127325	0.27877233	2.3207923	21	2 22.6	19.7
150200 1998 RR_{45}	16.4	X	338.52925	94.20790	197.47614	3.89668	0.1571434	0.29436387	2.2381012	21	5 30.2	18.1
150201 1998 RR_{50}	14.3	X	76.37197	323.69260	356.43125	17.16125	0.2188711	0.17909072	3.1171234	21	12 20.3	19.5
150202 1998 RS_{56}	16.6	X	164.69300	165.12904	194.74382	4.37015	0.1586434	0.27927406	2.3180119	21	2 3.9	20.1
150203 1998 RF_{57}	17.4	X	223.42601	220.72644	111.75646	0.42422	0.2268737	0.28448718	2.2896068	21	2 25.6	21.0
150204 1998 RM_{64}	16.7	X	196.38276	335.55899	34.14700	1.64388	0.1509605	0.28400156	2.2922161	21	3 20.4	20.1
150205 1998 RY_{76}	16.7	X	247.71243	268.78585	56.48356	3.46304	0.2257196	0.28654009	2.2786578	21	3 9.8	20.3
150206 1998 SN_9	16.7	X	113.38150	157.73735	209.11233	2.02442	0.2119309	0.27287635	2.3541030	21	—	—
150207 1998 SV_{18}	16.2	X	180.85264	208.24994	167.27638	6.54533	0.1269065	0.28191664	2.3035037	21	3 11.3	19.5
150208 1998 SR_{50}	16.6	X	13.09115	20.55134	2.21988	2.68691	0.1906713	0.26161917	2.4211573	21	—	—
150209 1998 SW_{51}	17.0	X	74.61698	229.02323	199.84893	2.83842	0.1943374	0.27453069	2.3446361	21	1 6.3	18.7
150210 1998 ST_{55}	16.7	X	144.40259	184.41458	170.13409	2.52781	0.2255636	0.27645912	2.3337201	21	1 15.8	20.0
150211 1998 SC_{76}	15.0	X	127.62409	320.57083	311.69452	11.55079	0.2242593	0.18214992	3.0821236	21	12 8.4	20.4
150212 1998 SV_{79}	15.0	X	31.06263	117.17869	192.05670	0.41335	0.1917401	0.17256611	3.1952073	21	10 9.3	18.9
150213 1998 SS_{88}	16.6	X	334.35499	307.45719	331.70350	6.93211	0.1542852	0.29216012	2.2493417	21	4 26.7	18.8
150214 1998 SF_{106}	16.5	X	98.08338	11.51194	24.71964	6.90049	0.1077158	0.27407321	2.3472445	21	—	—
150215 1998 SP_{111}	16.6	X	197.43347	319.01883	22.07883	5.12291	0.1654584	0.28091893	2.3089545	21	2 15.7	20.1
150216 1998 SY_{112}	16.3	X	125.43665	284.91706	147.24466	6.64295	0.1125188	0.28134744	2.3066095	21	3 22.9	19.2
150217 1998 SP_{113}	16.8	X	214.14520	202.92044	156.59975	6.48833	0.1904540	0.28482943	2.2877724	21	3 24.8	20.5
150218 1998 SN_{117}	16.1	X	52.45670	40.70847	340.56213	4.22015	0.2305246	0.26653358	2.3913039	21	—	—
150219 1998 SW_{121}	16.5	X	167.29544	26.62245	326.11827	2.69259	0.1818157	0.27796862	2.3252636	21	2 1.5	19.9
150220 1998 SS_{134}	16.3	X	113.12760	153.70730	182.21604	4.03733	0.2828557	0.27080123	2.3661138	21	—	—
150221 1998 SX_{162}	16.7	X	91.34075	359.39052	2.59602	1.10386	0.1995195	0.26941499	2.3742232	21	—	—
150222 1998 TA_{21}	16.9	X	28.74463	115.07686	316.52934	0.54934	0.1592870	0.26754762	2.3852578	21	—	—
150223 1998 TT_{22}	16.4	X	200.99158	91.06206	220.92692	2.57886	0.1610669	0.27670194	2.3323546	21	1 11.8	20.0
150224 1998 UE_1	17.1	X	293.07164	68.46583	276.37667	18.84067	0.1079005	0.37921576	1.8903627	21	6 5.3	18.7
150225 1998 UG_{21}	16.4	X	23.19250	137.31247	269.06205	5.62061	0.1916759	0.26431494	2.4046668	21	—	—
150226 1998 UP_{40}	16.2	X	343.94036	111.72204	356.75186	4.18148	0.1486618	0.26606533	2.3941087	21	—	—
150227 1998 UT_{41}	16.5	X	84.14200	335.55383	52.94584	8.91261	0.1502905	0.27048338	2.3679671	21	—	—
150228 1998 VN_3	15.8	X	181.02632	270.42956	47.53242	4.51416	0.2434109	0.27521420	2.3407525	21	1 7.7	19.5
150229 1998 VJ_{22}	16.4	X	224.46852	352.53284	338.40189	2.65277	0.2182674	0.28190287	2.3035787	21	2 24.8	20.3
150230 1998 VW_{28}	16.1	X	61.47036	87.59398	297.65940	4.18924	0.2353236	0.26645352	2.3917828	21	—	—
150231 1998 WV_{28}	16.3	X	173.07920	191.16987	237.15846	3.76887	0.1824313	0.24082855	2.5585706	21	5 15.8	20.6
150232 1998 XO_1	16.7	X	273.40848	294.74436	192.58038	2.23492	0.1269292	0.25806344	2.4433465	21	11 29.3	19.4
150233 1998 XM_8	16.6	X	342.30024	285.99864	198.67958	1.89842	0.1437270	0.26557919	2.3970293	21	—	—
150234 1998 XW_{13}	17.2	X	8.82521	240.03691	196.75975	1.64941	0.2072974	0.26399325	2.4066199	21	—	—
150235 1998 XO_{18}	16.2	X	199.70492	332.80213	70.98571	6.49593	0.1740975	0.24087988	2.5582071	21	5 9.7	20.3
150236 1998 XV_{19}	16.1	X	225.33320	311.68682	63.48105	8.01088	0.1469107	0.24150727	2.5537747	21	4 29.1	20.0
150237 1998 XD_{23}	16.3	X	47.22842	141.68261	250.81260	5.66978	0.1225091	0.26476886	2.4019176	21	—	—
150238 1998 YG_9	16.7	X	1.37592	353.85428	71.54868	2.35715	0.1616651	0.26130726	2.4230836	21	—	—
150239 1999 AN_{11}	16.3	X	62.75905	42.11938	291.47615	5.73143	0.1291766	0.25424091	2.4677762	21	12 26.0	19.7
150240 1999 CQ_{10}	16.7	X	188.68342	312.68480	149.54165	22.78327	0.0999206	0.37183543	1.9152944	21	7 14.9	19.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
150241 1999 CK_{39}	15.8	X	110.34998	89.85790	50.55841	2.77495	0.1902163	0.23327016	2.6135446	21	6 17.0	19.5
150242 1999 CD_{99}	15.7	X	13.89387	35.72053	138.39597	13.45024	0.2149225	0.22369332	2.6876169	21	2 16.7	17.9
150243 1999 CH_{133}	16.1	X	134.43904	233.39526	333.01094	3.23665	0.0850315	0.24284634	2.5443783	21	9 27.5	19.8
150244 1999 CZ_{150}	16.7	X	287.91168	244.50757	149.18766	7.02871	0.1989152	0.24403787	2.5360894	21	7 26.9	19.7
150245 1999 FY_{7}	16.3	X	220.48887	228.14770	174.93229	22.43057	0.0881550	0.36511210	1.9387355	21	5 29.7	19.2
150246 1999 GV_{1}	16.3	X	190.81864	123.10380	12.28079	2.76936	0.0361032	0.23790589	2.5794825	21	9 1.7	19.9
150247 1999 JK_{30}	15.6	X	132.15874	117.56547	72.09676	13.09876	0.2246752	0.23500641	2.6006560	21	9 18.9	20.2
150248 1999 JK_{59}	15.4	X	129.63475	86.86828	186.52479	5.42219	0.2556421	0.24122212	2.5557868	21	12 19.3	20.0
150249 1999 JY_{82}	15.3	X	135.17135	133.81035	120.46978	11.76684	0.2559499	0.24134224	2.5549387	21	12 3.3	19.9
150250 1999 JC_{99}	15.7	X	159.74584	39.20507	170.24771	12.57696	0.2443853	0.24028598	2.5624207	21	10 30.3	20.3
150251 1999 JR_{99}	15.5	X	12.18513	79.24638	170.25117	16.09643	0.2130965	0.22469990	2.6795845	21	6 13.0	18.3
150252 1999 LJ_{5}	16.5	X	22.94871	144.03335	96.53704	24.50892	0.0431258	0.36099796	1.9534376	21	6 8.7	18.3
150253 1999 LQ_{8}	15.4	X	27.40349	123.10891	120.31882	13.25029	0.1472593	0.22656862	2.6648302	21	6 30.9	18.3
150254 1999 LB_{31}	15.7	X	41.64316	105.14371	97.44254	13.95212	0.1330322	0.22413861	2.6840562	21	5 29.0	18.8
150255 1999 NH_{2}	15.4	X	46.48496	108.57391	173.74549	13.06373	0.1963377	0.22888756	2.6468008	21	10 7.5	18.7
150256 1999 PN_{7}	15.0	X	354.17502	54.25424	298.25815	7.27956	0.2736566	0.18220261	3.0815295	21	10 1.2	17.9
150257 1999 RO_{7}	17.2	X	18.17570	330.35584	39.57757	1.47056	0.0354822	0.31977057	2.1179241	21	12 16.7	19.3
150258 1999 RV_{18}	15.6	X	50.19951	192.14258	165.63496	4.64054	0.2793103	0.18697127	3.0289083	21	—	—
150259 1999 RD_{30}	15.1	X	277.21265	327.32473	332.13852	17.47146	0.2558437	0.21158832	2.7891696	21	3 4.6	19.7
150260 1999 RV_{67}	16.1	X	285.24914	318.55898	321.87081	9.57343	0.2872309	0.21162823	2.7888190	21	2 16.4	20.4
150261 1999 RC_{68}	15.1	X	332.27313	65.88837	335.07494	14.51701	0.2278104	0.18095019	3.0957320	21	10 13.3	18.4
150262 1999 RN_{101}	16.2	X	129.68746	212.04482	139.58143	2.74707	0.1035454	0.19920536	2.9035905	21	—	—
150263 1999 RQ_{108}	15.0	X	335.75314	84.32862	300.77105	9.11593	0.1080577	0.18042692	3.1017146	21	10 4.9	18.9
150264 1999 RS_{108}	14.6	X	167.24994	47.33008	285.06254	7.84513	0.1530393	0.15493779	3.4331898	21	1 23.1	20.1
150265 1999 RW_{116}	15.3	X	326.55890	131.29399	154.16994	8.37867	0.2746232	0.21862995	2.7289544	21	4 17.6	18.4
150266 1999 RZ_{137}	15.0	X	35.69054	9.80473	341.89493	14.53905	0.1582848	0.18617430	3.0375463	21	12 3.3	19.3
150267 1999 RP_{139}	14.5	X	280.86222	249.28567	149.87096	26.48708	0.2513272	0.17525091	3.1624902	21	7 15.9	19.3
150268 1999 RB_{162}	15.0	X	321.00270	223.13169	176.25389	15.57869	0.1614310	0.18010362	3.1054253	21	10 1.7	18.6
150269 1999 RB_{187}	15.7	X	63.55300	154.50118	195.40020	0.38927	0.2749227	0.18814391	3.0163098	21	—	—
150270 1999 RV_{187}	15.9	X	171.46063	58.87938	207.93332	0.37650	0.0993919	0.19324071	2.9630362	21	—	—
150271 1999 RO_{202}	15.1	X	32.99084	32.00770	330.27853	13.85272	0.1536531	0.18464286	3.0543189	21	12 13.9	19.4
150272 1999 RY_{204}	14.0	X	26.47730	77.46759	307.82322	15.19755	0.1447687	0.18586404	3.0409257	21	—	—
150273 1999 RA_{233}	15.1	X	91.37823	317.38908	0.42183	8.87982	0.1490601	0.19066788	2.9896317	21	12 27.5	19.9
150274 1999 SS	15.1	X	344.65191	212.40195	181.98777	12.83770	0.0838914	0.18191577	3.0847678	21	11 7.7	19.1
150275 1999 TR_{16}	17.3	X	165.09601	101.76100	351.12392	4.97615	0.1133770	0.29928051	2.2135216	21	6 3.2	20.5
150276 1999 TH_{38}	14.7	X	279.43516	345.01483	184.14048	11.54317	0.0197477	0.19098044	2.9863689	21	—	—
150277 1999 TJ_{45}	15.4	X	135.92629	311.64194	228.73974	4.60837	0.1094874	0.17121528	3.2119914	21	8 22.8	20.5
150278 1999 TP_{48}	15.4	X	37.06766	236.21243	152.22215	2.74067	0.0862910	0.18754475	3.0227306	21	—	—
150279 1999 TG_{49}	15.4	X	297.04596	240.03869	129.43330	2.09274	0.2020368	0.17282093	3.1920657	21	7 6.1	19.4
150280 1999 TO_{57}	15.3	X	1.77703	187.54880	147.66878	0.80120	0.2002188	0.17680372	3.1439463	21	9 22.5	18.7
150281 1999 TT_{58}	15.1	X	199.78892	328.13160	192.14711	4.87522	0.1310900	0.17479962	3.1679310	21	9 30.9	20.1
150282 1999 TK_{73}	15.3	X	348.31112	50.30970	355.14088	10.98127	0.1354251	0.18404919	3.0608834	21	11 24.6	19.1
150283 1999 TL_{81}	15.4	X	131.16964	302.69143	333.97403	4.43004	0.0988414	0.18884736	3.0088147	21	12 13.4	20.0
150284 1999 TV_{89}	16.2	X	135.75409	338.33483	46.36648	5.15712	0.1735123	0.29055884	2.2575982	21	2 7.4	19.1
150285 1999 TV_{94}	14.9	X	65.74661	302.58406	49.01471	11.65314	0.1183547	0.18741273	3.0241499	21	—	—
150286 1999 TA_{96}	15.4	X	295.20903	286.85726	50.97854	5.32785	0.1853304	0.21538833	2.7562669	21	5 23.6	19.1
150287 1999 TB_{113}	14.6	X	313.17483	192.77654	213.65540	12.30134	0.0462251	0.17938415	3.1137232	21	10 5.3	18.8
150288 1999 TS_{116}	15.0	X	51.37084	355.39537	15.51332	7.16368	0.1072964	0.18757607	3.0223942	21	—	—
150289 1999 TX_{143}	15.3	X	292.49292	88.90260	293.12533	3.61687	0.1857979	0.17329973	3.1861836	21	7 18.6	19.4
150290 1999 TT_{150}	14.6	X	307.26341	150.88274	232.36121	8.21132	0.0932933	0.17393146	3.1784639	21	8 20.7	18.9
150291 1999 TH_{158}	16.8	X	306.58325	21.18404	351.99622	4.80287	0.1537223	0.30916663	2.1660791	21	8 11.5	18.6
150292 1999 TJ_{162}	16.9	X	289.09669	197.50517	179.84907	6.71113	0.1357600	0.30784570	2.1722709	21	7 16.5	19.2
150293 1999 TV_{167}	16.8	X	215.62278	55.39716	351.61927	4.56301	0.1521879	0.30283746	2.1961550	21	5 24.7	20.2
150294 1999 TN_{179}	15.2	X	342.69172	58.43178	259.09314	4.21593	0.1591332	0.17228767	3.1986489	21	7 19.0	18.8
150295 1999 TJ_{187}	15.0	X	16.49732	358.23970	352.98940	10.53009	0.1075837	0.17979631	3.1089629	21	10 26.9	19.1
150296 1999 TR_{200}	15.0	X	337.39191	192.65042	171.68065	11.21393	0.2539691	0.18022577	3.1040220	21	9 7.8	17.8
150297 1999 TN_{212}	14.9	X	312.83377	173.67256	219.93802	9.98938	0.0418328	0.17618028	3.1513588	21	9 17.1	19.3
150298 1999 TH_{213}	15.0	X	324.65557	74.41239	356.14518	10.48002	0.1070273	0.18306688	3.0718231	21	11 17.1	18.9
150299 1999 TU_{214}	14.8	X	110.73633	136.60311	188.33317	10.12771	0.0169875	0.18825094	3.0151663	21	—	—
150300 1999 TZ_{228}	15.3	X	180.17608	244.95240	67.44971	3.10048	0.1479723	0.19787015	2.9166380	21	1 6.1	19.8
150301 1999 TD_{234}	14.9	X	262.00458	105.42570	347.62417	17.81986	0.1441818	0.17624098	3.1506351	21	9 13.2	19.2
150302 1999 TX_{234}	15.3	X	314.51015	252.96378	134.59715	5.22333	0.1418385	0.17543007	3.1603367	21	9 6.0	19.0
150303 1999 TV_{250}	15.2	X	23.92420	30.65422	315.48967	8.59745	0.1671339	0.18161129	3.0882147	21	11 9.3	19.2
150304 1999 TO_{259}	15.1	X	316.07229	106.95807	197.70161	16.21210	0.1478776	0.21344492	2.7729721	21	5 17.3	18.7
150305 1999 TH_{279}	14.9	X	304.89875	7.58873	17.86319	12.77864	0.2536114	0.17580159	3.1558827	21	8 5.8	18.9
150306 1999 TJ_{295}	14.9	X	146.07554	311.89996	338.23681	19.06081	0.1485680	0.19292224	2.9662962	21	—	—
150307 1999 TR_{303}	16.4	X	156.76539	81.82833	139.30404	1.99355	0.0334981	0.18246121	3.0786171	21	11 3.2	20.8
150308 1999 TQ_{320}	17.1	X	287.47500	88.08643	304.20630	2.53738	0.1760738	0.30901296	2.1667971	21	7 31.5	19.2
150309 1999 US_{2}	17.5	X	324.03552	32.75117	286.42913	3.18649	0.1424519	0.30563621	2.1827275	21	6 16.3	19.1
150310 1999 UF_{12}	14.6	X	225.37227	80.18599	25.95416	18.13460	0.1748544	0.17188800	3.2036053	21	8 27.2	20.0
150311 1999 UN_{19}	16.9	X	292.24664	326.06201	43.39500	4.38582	0.0870502	0.30695491	2.1764715	21	7 20.9	19.1
150312 1999 UR_{28}	16.1	X	313.94078	19.74629	68.85327	1.94958	0.0246906	0.18469377	3.0537576	21	12 1.5	20.3
150313 1999 UB_{34}	17.7	X	92.26943	214.58771	36.27471	0.86586	0.0703919	0.31233171	2.1514206	21	10 14.8	20.1
150314 1999 UQ_{54}	15.9	X	202.89262	319.83353	196.74896	3.02533	0.0445641	0.18081374	3.0972892	21	10 6.5	20.3
150315 1999 UB_{58}	15.5	X	261.10622	222.11764	35.92383	6.51384	0.0439378	0.19687825	2.9264260	21	1 25.5	19.8
150316 1999 VO_{1}	16.6	X	209.09750	219.61188	282.53786	3.35980	0.0723465	0.30982788	2.1629960	21	10 4.9	19.2
150317 1999 VQ_{40}	17.0	X	40.69598	161.42261	232.08508	3.40540	0.1203197	0.27795397	2.3253453	21	—	—
150318 1999 VB_{43}	15.4	X	326.20705	249.46891	123.12568	2.24414	0.2214747	0.17360626	3.1824320	21	8 28.2	18.7
150319 1999 VA_{57}	16.9	X	160.14285	34.71298	42.58365	5.57427	0.1380388	0.29694256	2.2251250	21	5 9.4	19.9
150320 1999 VQ_{64}	14.3	X	320.58732	171.23554	219.59364	8.63561	0.0788806	0.17486730	3.1671136	21	9 22.0	18.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
150321 1999 VN_{83}	15.4	X	327.57607	0.18746	7.63380	4.96404	0.1785591	0.17502510	3.1652098	21	8 29.9	18.9
150322 1999 VQ_{84}	15.8	X	87.76766	217.38905	35.50443	0.57036	0.1236369	0.17519754	3.1631325	21	10 3.0	20.2
150323 1999 VV_{99}	17.1	X	49.69267	11.70817	50.88983	4.40735	0.0947610	0.28104667	2.3082548	21	—	—
150324 1999 VM_{107}	15.5	X	91.78150	289.15029	48.20557	1.18571	0.1806873	0.18572734	3.0424176	21	—	—
150325 1999 VD_{112}	16.8	X	157.48173	226.82230	236.92257	4.94097	0.0484175	0.29781370	2.2207837	21	6 6.3	19.4
150326 1999 VO_{134}	17.4	X	127.81926	200.88773	41.77020	5.48354	0.1243633	0.31468493	2.1406816	21	11 17.1	20.4
150327 1999 VY_{139}	16.0	X	63.40648	26.67799	285.33062	1.58647	0.0903336	0.18081982	3.0972198	21	11 11.2	20.4
150328 1999 VU_{142}	15.3	X	303.18421	110.74404	256.07709	3.51092	0.1867456	0.17212892	3.2006153	21	7 13.8	19.5
150329 1999 VZ_{173}	16.5	X	270.50393	129.41980	253.98884	5.12564	0.1495036	0.30599224	2.1810340	21	6 25.9	18.9
150330 1999 VZ_{177}	14.6	X	106.34953	235.09529	61.63184	12.17402	0.0955011	0.18477212	3.0528942	21	12 10.9	19.3
150331 1999 VG_{180}	17.2	X	104.57631	234.48823	135.88766	2.42153	0.2143735	0.28396542	2.2924106	21	—	—
150332 1999 VR_{183}	17.5	X	223.66357	174.63476	248.65426	1.30873	0.1815687	0.30217338	2.1993715	21	6 23.7	20.8
150333 1999 VD_{189}	15.4	X	266.08826	290.39967	139.24723	1.88133	0.1221897	0.16991406	3.2283691	21	8 23.5	20.1
150334 1999 VQ_{195}	15.6	X	353.46906	226.89824	144.23971	1.60112	0.1844781	0.17855292	3.1233794	21	10 24.9	18.8
150335 1999 VD_{221}	15.7	X	66.82593	318.60591	37.05785	1.55735	0.0439563	0.18572360	3.0424584	21	—	—
150336 1999 WV_{10}	17.0	X	100.51293	71.59511	201.68229	1.79288	0.1074562	0.31424478	2.1426801	21	11 28.4	19.8
150337 1999 WN_{12}	15.2	X	53.39089	327.99415	31.89727	2.30780	0.2234767	0.18629769	3.0362048	21	—	—
150338 1999 XL_{15}	16.0	X	254.12869	122.91361	239.60047	4.45817	0.1950653	0.29998516	2.2100539	21	5 1.6	19.2
150339 1999 XX_{27}	14.5	X	213.10815	44.43278	70.35377	25.34194	0.1386188	0.16900059	3.2399917	21	8 30.8	20.1
150340 1999 XH_{31}	16.1	X	193.10171	123.67675	246.99748	3.74340	0.3198595	0.29229365	2.2486566	21	3 19.9	20.2
150341 1999 XD_{61}	16.5	X	190.45055	195.56933	230.77827	5.01579	0.1369761	0.29787791	2.2204646	21	5 26.9	19.6
150342 1999 XJ_{89}	16.3	X	152.54750	212.87774	267.77841	5.13717	0.1042812	0.29634509	2.2281148	21	6 28.1	19.2
150343 1999 XS_{99}	16.6	X	185.77517	350.10071	54.31154	5.72157	0.1694903	0.29511380	2.2343080	21	4 24.4	20.1
150344 1999 XO_{107}	15.8	X	77.24323	101.63501	236.45906	18.10939	0.1565979	0.27640808	2.3340074	21	—	—
150345 1999 XQ_{187}	16.6	X	150.44341	73.27065	36.54741	8.95569	0.1587688	0.29625654	2.2285588	21	6 13.4	20.0
150346 1999 YX_{4}	16.7	X	101.99261	67.23113	90.01247	6.56448	0.0802225	0.29461534	2.2368274	21	6 12.9	19.4
150347 1999 YZ_{7}	17.2	X	17.74417	359.19908	100.18854	1.67736	0.1264361	0.27829358	2.3234532	21	—	—
150348 1999 YU_{12}	17.3	X	168.67397	190.22208	231.97838	5.28622	0.1146817	0.29487539	2.2355121	21	4 26.4	20.2
150349 1999 YB_{24}	16.7	X	202.06807	13.96578	155.81509	1.85420	0.0710572	0.31193273	2.1532548	21	11 7.1	19.2
150350 2000 AD_{7}	16.2	X	199.95587	320.07334	57.75819	7.04502	0.1975269	0.29388721	2.2405205	21	4 5.4	19.9
150351 2000 AK_{11}	16.7	X	146.37068	36.72337	77.16889	6.50082	0.1065182	0.29675275	2.2260738	21	6 11.4	19.7
150352 2000 AF_{12}	16.8	X	158.19953	3.56709	59.40903	6.15423	0.1978884	0.29308811	2.2445912	21	4 24.5	20.2
150353 2000 AL_{22}	17.1	X	221.48996	69.21752	331.70781	3.48224	0.1377332	0.29775103	2.2210953	21	5 23.7	20.4
150354 2000 AQ_{39}	16.5	X	231.67471	292.18552	75.46877	6.41851	0.1971827	0.29563224	2.2316951	21	4 19.9	20.0
150355 2000 AU_{56}	16.7	X	48.96039	178.85225	314.43641	6.16938	0.0532832	0.28453998	2.2893236	21	2 10.5	19.1
150356 2000 AY_{130}	17.1	X	116.44649	196.63882	247.63291	5.05681	0.1281306	0.28798942	2.2710064	21	3 24.8	20.0
150357 2000 AL_{160}	16.5	X	166.68642	108.80814	319.77824	4.91208	0.1456919	0.29299051	2.2450896	21	5 3.4	19.9
150358 2000 AZ_{208}	16.7	X	46.66303	46.59035	122.42313	5.85483	0.0944104	0.28623657	2.2802684	21	4 6.5	18.9
150359 2000 AO_{229}	16.6	X	304.24843	30.31141	40.09608	4.92439	0.1012549	0.30990509	2.1626368	21	11 14.5	18.2
150360 2000 BE_{10}	17.0	X	187.29153	5.95295	314.97823	2.15279	0.1393644	0.27791564	2.3255592	21	1 8.9	20.3
150361 2000 BZ_{20}	17.4	X	170.01566	55.64656	340.36230	2.92426	0.1532109	0.28895841	2.2659265	21	3 26.8	20.8
150362 2000 BB_{21}	16.8	X	268.93135	142.00920	143.81241	3.43554	0.1343812	0.23708054	2.5854657	21	2 19.9	20.6
150363 2000 BB_{22}	16.5	X	352.13122	15.51177	154.70665	7.12360	0.0464956	0.27725724	2.3292394	21	1 8.4	19.2
150364 2000 CN_{9}	16.7	X	304.65826	222.90684	280.10801	3.10105	0.1870998	0.27095808	2.3652006	21	—	—
150365 2000 CF_{11}	16.6	X	75.54397	232.19400	265.20526	7.05287	0.0781435	0.28695538	2.2764588	21	3 30.3	19.2
150366 2000 CE_{17}	16.6	X	252.04034	343.89850	213.82308	1.24117	0.0788661	0.27004127	2.3705509	21	—	—
150367 2000 CF_{19}	16.7	X	100.11016	152.41724	291.30145	5.75295	0.1421603	0.28422769	2.2910002	21	3 2.9	19.3
150368 2000 CO_{22}	16.7	X	123.06032	256.19760	169.90727	3.92592	0.1378282	0.28477635	2.2880566	21	3 12.9	19.5
150369 2000 CB_{64}	15.5	X	353.06292	73.82276	162.49010	23.23833	0.2046721	0.28212144	2.3023887	21	3 27.3	17.5
150370 2000 CG_{65}	15.3	X	342.49444	289.71430	5.53410	2.21939	0.1049237	0.24676740	2.5173534	21	6 20.7	17.9
150371 2000 CC_{72}	16.3	X	2.61066	210.23372	319.11398	6.44594	0.0760092	0.27998474	2.3140877	21	1 19.7	18.7
150372 2000 CF_{76}	16.4	X	19.09634	16.46599	184.10097	1.54247	0.1146249	0.28371727	2.2937471	21	3 31.2	18.3
150373 2000 CG_{78}	16.8	X	75.53493	106.25816	327.67577	6.01977	0.1389862	0.27812707	2.3243804	21	1 9.9	18.9
150374 Jasoncook	17.2	X	164.21537	136.84173	151.38338	1.54357	0.1785674	0.26806668	2.3821777	21	—	—
150375 2000 CG_{118}	16.7	X	96.02299	150.32707	338.06797	4.25196	0.0913293	0.28773097	2.2723662	21	4 22.5	19.3
150376 2000 DG_{4}	17.2	X	30.49252	63.79880	43.18113	3.56785	0.1796797	0.27705980	2.3303458	21	—	—
150377 2000 DO_{14}	16.4	X	42.81747	97.08148	122.84374	5.74614	0.2281368	0.28749842	2.2735913	21	7 7.7	18.0
150378 2000 DK_{26}	15.9	X	342.53298	303.05282	330.20681	8.57509	0.1459241	0.28856995	2.2679596	21	5 4.6	18.2
150379 2000 DL_{28}	16.7	X	66.71747	87.44974	346.46134	4.74688	0.1480592	0.27760612	2.3272874	21	—	—
150380 2000 DE_{33}	16.9	X	357.56670	359.48937	192.25313	2.13593	0.0935809	0.28061412	2.3106263	21	2 8.4	19.2
150381 2000 DC_{37}	16.3	X	89.45887	50.52809	347.41586	5.89308	0.1728721	0.27578942	2.3374966	21	—	—
150382 2000 DK_{48}	16.9	X	100.46130	311.71795	153.47838	5.38626	0.1104021	0.28433091	2.2904457	21	4 2.8	19.5
150383 2000 DX_{50}	16.9	X	308.11994	81.93739	172.38020	3.30720	0.2297412	0.27925767	2.3181026	21	2 3.6	20.2
150384 2000 DN_{59}	17.0	X	74.89670	180.17312	295.62230	0.81525	0.1602326	0.28236901	2.3010428	21	3 13.4	19.1
150385 2000 DS_{63}	16.4	X	239.71113	288.00201	333.40418	6.17433	0.2210907	0.27061859	2.3671782	21	—	—
150386 2000 DP_{64}	16.2	X	276.47150	266.55154	331.83971	6.49629	0.0704856	0.27472248	2.3435447	21	—	—
150387 2000 DH_{77}	16.3	X	263.64765	222.39904	353.62925	5.34648	0.0795298	0.27025568	2.3692969	21	—	—
150388 2000 DV_{77}	16.2	X	24.64785	154.25329	351.43548	6.93206	0.0489685	0.27782344	2.3260736	21	1 25.2	18.9
150389 2000 DZ_{81}	17.1	X	95.46630	122.85733	351.54025	5.45588	0.1456618	0.28627545	2.2800619	21	4 10.7	19.6
150390 2000 DZ_{89}	16.8	X	115.86819	88.63948	318.57794	7.79898	0.1439386	0.28149581	2.3057989	21	2 6.7	19.2
150391 2000 DP_{94}	16.9	X	298.31092	98.35799	18.95054	2.39518	0.1449750	0.26599044	2.3945580	21	12 29.9	19.1
150392 2000 DG_{97}	16.5	X	139.49515	83.54885	334.03679	4.12266	0.1463609	0.28521234	2.2857243	21	3 21.6	19.5
150393 2000 EN	16.3	X	14.75002	62.04625	6.56504	8.60122	0.1170681	0.26778362	2.3838562	21	—	—
150394 2000 EF_{6}	16.7	X	36.00430	126.49504	13.42261	2.71031	0.1201752	0.27808606	2.3246090	21	1 31.8	18.7
150395 2000 ES_{11}	16.5	X	295.87936	164.67430	56.21626	6.35618	0.1811987	0.27530476	2.3402391	21	—	—
150396 2000 EP_{14}	16.1	X	312.14280	242.11358	5.92032	7.86388	0.1845670	0.27798203	2.3251889	21	2 10.1	19.1
150397 2000 EH_{40}	16.7	X	336.12240	8.30515	172.78960	3.83198	0.2079037	0.27445308	2.3450781	21	—	—
150398 2000 EC_{59}	16.6	X	257.19846	284.44332	341.43100	2.06296	0.1960902	0.27195462	2.3594191	21	1 6.1	20.2
150399 2000 EO_{62}	16.4	X	335.87727	233.31551	11.18025	6.44454	0.0958498	0.28181082	2.3040803	21	3 22.8	18.8
150400 2000 ES_{71}	16.7	X	349.42599	255.02549	345.78561	5.92355	0.1412910	0.28276987	2.2988676	21	3 31.4	18.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
150401 2000 EZ_{74}	16.5	X	58.60292	252.59296	177.37433	7.08959	0.0900037	0.27178002	2.3604295	21	—	—
150402 2000 EM_{75}	16.3	X	73.95926	138.41620	357.70701	23.70519	0.2544743	0.28409949	2.2916893	21	4 17.1	18.9
150403 2000 EV_{100}	15.8	X	111.41747	8.64062	2.28499	5.28072	0.2058495	0.27035706	2.3687046	21	—	—
150404 2000 EK_{129}	16.0	X	262.51021	215.20889	19.85684	5.72284	0.1750607	0.27060889	2.3672349	21	—	—
150405 2000 EN_{132}	17.0	X	324.79331	236.12737	352.89983	5.84346	0.1533631	0.27799481	2.3251176	21	2 4.6	19.9
150406 2000 EW_{136}	15.7	X	285.77969	227.96359	9.07678	13.09914	0.1614657	0.27333158	2.3514884	21	—	—
150407 2000 EH_{151}	15.6	X	218.01064	102.87440	154.67890	21.13694	0.1639320	0.26580873	2.3956492	21	—	—
150408 2000 EZ_{157}	16.3	X	26.64497	292.03825	201.65374	10.70083	0.1946659	0.27683920	2.3315836	21	—	—
150409 2000 EV_{172}	16.5	X	314.99592	172.59545	141.13715	7.53769	0.1267352	0.29223273	2.2489691	21	5 26.9	18.9
150410 2000 ES_{196}	16.4	X	55.24988	125.88400	340.05205	7.05159	0.0618636	0.27655253	2.3331946	21	1 16.9	18.9
150411 2000 FW_{6}	17.5	X	311.03667	321.64036	298.29487	1.31529	0.1866999	0.28130416	2.3068461	21	2 20.4	20.4
150412 2000 FT_{18}	16.3	X	14.78865	79.84813	109.74079	6.82906	0.0707086	0.28012229	2.3133301	21	3 12.8	18.7
150413 2000 FN_{21}	16.4	X	14.31844	15.44823	104.34121	6.22060	0.1168082	0.27298242	2.3534931	21	—	—
150414 2000 FA_{23}	15.7	X	291.36719	181.75606	47.96524	13.21317	0.1363974	0.27299914	2.3533970	21	—	—
150415 2000 FR_{27}	16.4	X	258.76324	288.87053	349.01852	1.92533	0.1475131	0.27420427	2.3464965	21	1 24.5	20.0
150416 2000 FU_{52}	14.2	X	358.16568	61.93247	26.94588	4.10709	0.1579049	0.12750283	3.9095146	21	—	—
150417 2000 FX_{56}	16.1	X	214.40882	153.13790	79.70988	6.93933	0.0918851	0.26349611	2.4096460	21	—	—
150418 2000 FK_{64}	16.9	X	233.54990	112.14794	143.91351	2.73544	0.1546296	0.26802510	2.3824241	21	—	—
150419 2000 GX	16.2	X	220.24094	119.24611	198.81060	4.27161	0.1858810	0.27225366	2.3576911	21	2 5.5	20.0
150420 2000 GH_{6}	16.1	X	314.11250	62.96742	182.60004	7.51920	0.1743622	0.27748932	2.3279404	21	2 6.0	19.1
150421 2000 GA_{14}	16.9	X	285.07447	235.27689	24.93025	2.55934	0.1873136	0.27511819	2.3412970	21	1 25.1	20.5
150422 2000 GC_{15}	16.7	X	284.00679	91.89505	175.37793	7.15464	0.0993968	0.27738635	2.3285165	21	2 8.8	19.9
150423 2000 GN_{17}	16.7	X	299.79694	9.81665	140.30465	1.75824	0.1238229	0.26644420	2.3918386	21	—	—
150424 2000 GA_{18}	16.5	X	260.00447	162.61199	25.44571	4.98946	0.0910617	0.26496994	2.4007023	21	—	—
150425 2000 GB_{35}	16.3	X	203.59336	88.36502	228.43245	1.92779	0.2013980	0.27056202	2.3675082	21	1 22.4	20.2
150426 2000 GR_{40}	16.6	X	358.34393	299.10043	200.04247	2.38120	0.1109454	0.27175360	2.3605825	21	—	—
150427 2000 GK_{41}	16.8	X	269.38915	266.23680	357.98302	2.87576	0.1853202	0.27254895	2.3559878	21	1 15.6	20.6
150428 2000 GL_{46}	16.9	X	281.95163	16.02769	214.39760	1.05372	0.1471163	0.27101923	2.3648448	21	—	—
150429 2000 GR_{46}	16.8	X	34.79282	197.12784	16.58758	3.79411	0.0741704	0.28429159	2.2906569	21	5 18.9	19.0
150430 2000 GG_{49}	15.9	X	237.41509	34.18748	223.49665	0.70663	0.1549409	0.26776182	2.3839855	21	—	—
150431 2000 GZ_{49}	16.3	X	217.41344	280.05363	43.79895	3.16884	0.1766069	0.27320525	2.3522132	21	2 12.7	20.1
150432 2000 GV_{56}	16.2	X	286.37514	343.26019	195.00212	4.45550	0.1577856	0.26647983	2.3916254	21	—	—
150433 2000 GY_{75}	16.1	X	90.84234	176.95847	34.95686	5.78894	0.1888655	0.24359341	2.5391734	21	8 31.8	19.8
150434 2000 GV_{83}	16.3	X	17.47116	137.94167	55.49000	4.93437	0.1072258	0.28151135	2.3057140	21	3 20.4	18.4
150435 2000 GT_{98}	16.0	X	254.04394	315.17953	354.32132	5.62619	0.2387611	0.27578302	2.3375327	21	2 23.4	19.9
150436 2000 GE_{99}	15.8	X	192.48946	310.11716	347.71056	5.75845	0.1362640	0.26743868	2.3859055	21	—	—
150437 2000 GM_{101}	16.4	X	208.41976	354.58707	258.72363	1.73043	0.1904194	0.26437276	2.4043162	21	—	—
150438 2000 GG_{117}	17.3	X	8.72975	316.68623	197.22683	2.23070	0.1434641	0.27652661	2.3333404	21	—	—
150439 2000 GZ_{117}	16.9	X	308.09995	259.82799	337.98905	1.82718	0.1607200	0.27672481	2.3322261	21	1 23.8	20.0
150440 2000 GR_{118}	17.1	X	295.27393	343.80822	216.96392	1.95485	0.1361055	0.27154573	2.3617870	21	—	—
150441 2000 GU_{118}	17.7	X	292.90782	206.77596	337.50388	2.01536	0.1397861	0.26967438	2.3727005	21	—	—
150442 2000 GN_{127}	15.8	X	289.04985	86.69665	53.65534	25.52580	0.2149484	0.26481824	2.4016191	21	—	—
150443 2000 GT_{139}	16.3	X	225.09102	153.12006	121.96788	5.93032	0.1948672	0.26761141	2.3848787	21	—	—
150444 2000 GH_{146}	16.3	X	211.70811	109.01964	157.83216	6.60411	0.0942524	0.26446086	2.4037822	21	—	—
150445 2000 GD_{161}	16.2	X	297.99934	102.60275	43.92560	6.67945	0.0382194	0.26349613	2.4096458	21	—	—
150446 2000 GM_{164}	16.2	X	42.49810	251.44551	192.70429	5.97475	0.0665095	0.27151805	2.3619475	21	—	—
150447 2000 GD_{173}	16.8	X	270.43967	95.37920	118.34731	4.83166	0.1431553	0.26946140	2.3739506	21	—	—
150448 2000 GJ_{176}	17.3	X	288.94015	40.33112	166.98947	1.35347	0.1299586	0.27127852	2.3633376	21	—	—
150449 2000 HF_{1}	17.1	X	198.48654	350.80581	216.50373	2.22467	0.1314183	0.25672585	2.4518260	21	12 6.0	20.6
150450 2000 HK_{2}	16.2	X	0.43328	15.50639	53.96655	6.50217	0.0853555	0.26170714	2.4206147	21	—	—
150451 2000 HC_{10}	16.5	X	220.81936	132.53229	129.99080	1.68623	0.1648631	0.26479070	2.4017856	21	—	—
150452 2000 HM_{39}	16.4	X	303.97235	188.88794	145.92837	4.28276	0.1084081	0.23761673	2.5815748	21	6 13.5	19.6
150453 2000 HH_{46}	16.6	X	234.19991	254.02651	19.93155	2.55528	0.1704231	0.26850066	2.3796101	21	—	—
150454 2000 HX_{52}	16.4	X	292.73907	113.83555	64.74419	5.51165	0.1686955	0.26591067	2.3950369	21	—	—
150455 2000 HC_{54}	16.7	X	211.39370	182.70285	59.31816	3.87245	0.1625320	0.26104412	2.4247117	21	—	—
150456 2000 HX_{55}	16.9	X	4.96814	130.38955	17.61011	2.65056	0.1563598	0.27294969	2.3536812	21	—	—
150457 2000 HG_{66}	16.7	X	237.46548	284.45335	339.82776	2.13790	0.2036889	0.26644788	2.3918165	21	—	—
150458 2000 HR_{68}	17.0	X	211.68803	171.79887	82.34414	1.87406	0.1841491	0.26244441	2.4160792	21	—	—
150459 2000 HO_{82}	16.3	X	13.09962	48.22521	44.71789	5.03185	0.1169789	0.26589413	2.3951362	21	—	—
150460 2000 HG_{88}	16.2	X	334.79788	115.66196	81.44614	7.30706	0.1689885	0.27347455	2.3506688	21	1 3.0	19.1
150461 2000 HY_{89}	16.8	X	228.05843	84.16691	184.67302	1.11438	0.1694524	0.26562994	2.3967241	21	—	—
150462 2000 JX_{1}	16.2	X	336.48677	130.08653	60.75977	7.18531	0.0584896	0.27360815	2.3499035	21	1 15.2	19.1
150463 2000 JA_{9}	16.5	X	335.09400	271.82830	266.19161	4.10519	0.1661034	0.27272040	2.3550003	21	—	—
150464 2000 JH_{11}	16.5	X	256.03116	128.73387	18.57937	2.92052	0.1351823	0.25837614	2.4413748	21	11 27.9	19.4
150465 2000 JD_{12}	16.3	X	0.36825	121.77833	51.61538	6.91149	0.0514461	0.27417521	2.3466623	21	1 27.9	19.0
150466 2000 JP_{34}	16.7	X	222.37768	359.03764	243.79708	0.90693	0.1382768	0.26324614	2.4111712	21	—	—
150467 2000 JC_{64}	16.9	X	324.40023	115.02303	95.60940	0.63264	0.1587964	0.27288858	2.3540326	21	1 8.9	19.7
150468 2000 JY_{83}	16.7	X	263.03119	98.17587	97.85362	4.78489	0.1701459	0.26424878	2.4050682	21	—	—
150469 2000 KV_{4}	15.8	X	332.72354	121.83922	80.75913	22.22883	0.1897936	0.27262433	2.3555535	21	1 3.5	18.9
150470 2000 KT_{28}	15.9	X	232.60517	167.56332	72.87672	7.91375	0.1959104	0.26281088	2.4138326	21	—	—
150471 2000 KH_{55}	16.1	X	147.96726	129.68619	136.55198	3.65157	0.1458171	0.25467269	2.4649861	21	12 27.6	20.0
150472 2000 KM_{73}	15.2	X	61.63898	185.56913	122.79135	10.56694	0.2324125	0.24371332	2.5383405	21	12 5.6	19.0
150473 2000 KE_{83}	16.1	X	217.88275	127.25683	175.02149	4.36411	0.2037025	0.26825119	2.3810853	21	1 16.8	20.0
150474 2000 LV_{32}	16.3	X	290.99352	21.67588	194.01834	6.17417	0.1360876	0.26890670	2.3772141	21	—	—
150475 2000 NJ_{15}	15.2	X	227.03965	11.19296	315.11057	16.14064	0.1836241	0.21842923	2.7306260	21	2 24.6	20.0
150476 2000 NT_{22}	15.6	X	10.82827	16.78300	312.90204	3.73882	0.2045332	0.23952862	2.5678192	21	10 13.1	18.0
150477 2000 OQ_{21}	15.5	X	236.00362	207.60495	140.48044	17.86626	0.2718014	0.22227652	2.6990255	21	4 3.8	20.5
150478 2000 OS_{26}	16.1	X	12.80224	119.30912	168.52301	3.22913	0.2752904	0.23527554	2.5986723	21	8 23.8	18.0
150479 2000 OS_{40}	15.2	X	135.55461	127.62972	237.85976	6.90794	0.2418367	0.20929786	2.8094816	21	1 31.1	19.7
150480 2000 OM_{46}	15.4	X	93.75703	139.51660	153.82854	15.20129	0.2137916	0.24397128	2.5365509	21	12 15.2	19.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
150481 2000 OR_{60}	15.8	X	201.51116	184.38842	134.51190	10.64012	0.2040910	0.21456645	2.7633009	21	1 30.8	20.5
150482 2000 PR_{3}	15.5	X	279.57623	125.48959	161.73567	22.24053	0.2405303	0.27130120	2.3632060	21	2 16.2	19.2
150483 2000 PQ_{4}	16.4	X	306.38720	359.04195	315.17010	17.53693	0.0728216	0.36808118	1.9282957	21	5 5.2	18.9
150484 2000 PM_{29}	15.2	X	134.47991	279.00626	94.62675	10.16662	0.1708480	0.21010340	2.8022959	21	2 4.9	19.5
150485 2000 QF_{2}	17.0	X	63.36720	287.42022	339.48086	19.92765	0.0916623	0.37777171	1.8951769	21	9 30.3	19.2
150486 2000 QT_{11}	15.5	X	63.16090	236.38115	129.50643	8.72572	0.2209859	0.20074789	2.8886974	21	—	—
150487 2000 QY_{11}	15.9	X	182.49756	221.89468	147.54090	10.17319	0.2450458	0.21668442	2.7452649	21	3 18.6	20.7
150488 2000 QJ_{14}	15.7	X	201.55187	225.47692	144.67850	5.67264	0.1593194	0.21992672	2.7182165	21	4 2.3	20.1
150489 2000 QS_{43}	15.8	X	35.76954	87.78525	166.27188	4.51808	0.1947431	0.23333616	2.6130518	21	8 8.1	18.5
150490 2000 QD_{44}	15.7	X	4.79860	188.94358	153.84298	5.47329	0.1218042	0.23796325	2.5790679	21	10 14.3	18.4
150491 2000 QN_{45}	15.6	X	198.47523	21.01481	330.09436	10.70460	0.1381748	0.21675977	2.7446287	21	3 4.2	20.1
150492 2000 QZ_{70}	16.5	X	234.38053	174.99480	176.16284	1.04346	0.1891085	0.22089046	2.7103044	21	4 5.3	21.0
150493 2000 QV_{77}	15.5	X	195.91700	18.57114	318.22033	4.38687	0.1891146	0.21404665	2.7677727	21	2 15.6	20.0
150494 2000 QL_{80}	16.4	X	84.20509	319.99644	329.46337	3.98318	0.2630686	0.24286135	2.5442734	21	12 3.8	20.5
150495 2000 QO_{88}	15.7	X	247.68215	56.04252	261.24764	4.72190	0.0832655	0.21916008	2.7245519	21	3 12.5	19.8
150496 2000 QD_{94}	15.5	X	211.75860	33.26313	309.07414	8.74294	0.1565150	0.21708224	2.7419100	21	3 4.3	20.1
150497 2000 QM_{96}	15.3	X	216.15396	203.43216	154.53579	11.01535	0.2438464	0.21849758	2.7300565	21	3 30.3	20.1
150498 2000 QV_{111}	15.7	X	185.71846	236.01996	153.30036	6.16311	0.1536772	0.21799646	2.7342387	21	4 11.5	20.1
150499 2000 QV_{117}	15.4	X	332.50335	247.12579	62.74169	4.68161	0.2574310	0.23033041	2.6357357	21	6 3.5	17.8
150500 2000 QD_{125}	15.4	X	314.49718	7.95205	275.73725	8.39245	0.1372365	0.22519965	2.6756188	21	4 10.7	19.0
150501 2000 QU_{125}	15.2	X	253.99042	24.52817	330.96025	15.01636	0.1250982	0.22352671	2.6889523	21	4 27.7	19.5
150502 2000 QZ_{169}	15.6	X	344.85054	84.01928	322.01987	8.29475	0.2238223	0.19169609	2.9789318	21	11 27.5	18.6
150503 2000 QR_{171}	15.8	X	359.73157	57.99572	257.98148	3.03468	0.2031496	0.23359777	2.6111005	21	8 26.5	17.9
150504 2000 QT_{190}	15.5	X	244.78527	352.28638	5.72494	13.02121	0.1874383	0.22320723	2.6915175	21	4 19.5	19.9
150505 2000 QR_{196}	15.6	X	132.74404	35.77587	340.82610	8.71351	0.1664612	0.21049253	2.7988412	21	2 5.9	19.7
150506 2000 QZ_{201}	15.5	X	141.89505	227.15091	136.99363	5.15600	0.0810920	0.21007051	2.8025884	21	1 19.6	19.4
150507 2000 QY_{209}	15.2	X	116.64641	241.37580	166.79222	14.49476	0.1446748	0.21129262	2.7917713	21	2 20.7	19.1
150508 2000 QT_{220}	15.7	X	149.60205	228.43592	140.31836	8.56399	0.1196547	0.21266446	2.7797524	21	2 6.9	19.7
150509 2000 QK_{237}	16.4	X	52.23135	53.86667	155.86194	2.82908	0.0195547	0.22852605	2.6495914	21	6 8.8	19.8
150510 2000 QQ_{247}	15.8	X	131.60250	85.45896	223.63888	1.38542	0.0629441	0.20409993	2.8569819	21	—	—
150511 2000 QU_{252}	15.9	X	88.95211	358.77213	153.39089	14.04830	0.2778183	0.22352560	2.6889612	21	6 21.2	20.0
150512 2000 QQ_{254}	15.8	X	217.68362	186.62273	154.71357	14.18766	0.1313078	0.21945678	2.7220957	21	3 13.1	20.1
150513 2000 RL_{17}	15.4	X	43.53448	333.69508	315.66997	13.08999	0.1603235	0.23626920	2.5913813	21	9 28.8	18.8
150514 2000 RQ_{25}	15.0	X	101.69659	151.20288	242.71141	3.95672	0.1149225	0.20651251	2.8346872	21	1 12.1	18.7
150515 2000 RA_{30}	15.5	X	145.76905	41.80528	326.68239	9.91140	0.2110324	0.20917917	2.8105442	21	2 12.6	20.0
150516 2000 RD_{32}	15.1	X	214.45433	98.17830	233.49238	6.74621	0.2158329	0.21482779	2.7610593	21	2 21.8	20.0
150517 2000 RF_{54}	14.7	X	321.03130	196.69727	223.78627	11.98588	0.2151028	0.18454318	3.0554185	21	10 24.6	17.7
150518 2000 RK_{85}	15.8	X	105.61635	306.47144	344.69502	4.90253	0.1706297	0.24584998	2.5236120	21	12 18.8	19.9
150519 2000 RR_{89}	16.1	X	73.73023	321.34774	304.15443	6.89330	0.1743647	0.23822469	2.5771807	21	10 12.4	20.0
150520 Dong	16.5	X	71.90929	213.47983	37.25411	3.19058	0.1025297	0.23498249	2.6008325	21	9 15.3	19.8
150521 2000 SK_{1}	16.4	X	138.76702	142.20975	294.48302	22.66810	0.0494211	0.35840778	1.9628379	21	3 8.3	19.1
150522 2000 SU_{14}	15.6	X	153.54612	235.55798	120.45727	14.16459	0.0647378	0.20904915	2.8117095	21	1 21.5	19.6
150523 2000 SH_{15}	16.1	X	155.87465	29.82336	334.99895	8.31916	0.1621689	0.21094756	2.7948148	21	2 13.6	20.5
150524 2000 SY_{21}	16.8	X	137.51843	32.15315	182.47152	22.57576	0.0678546	0.37743781	1.8962945	21	11 1.7	19.2
150525 2000 SQ_{32}	15.5	X	79.16068	8.78610	37.78830	5.34716	0.1634945	0.20444023	2.8538105	21	1 3.9	18.9
150526 2000 SW_{43}	16.7	X	49.96705	252.68362	330.09424	17.75657	0.0241733	0.36737273	1.9307740	21	6 23.6	18.9
150527 2000 SY_{45}	15.2	X	242.05080	120.27433	231.72532	12.12407	0.0943961	0.22301129	2.6930938	21	4 18.6	19.2
150528 2000 SF_{47}	15.3	X	223.29212	128.78792	238.12493	10.91788	0.1064167	0.22163704	2.7042146	21	4 16.2	19.4
150529 2000 SK_{49}	15.4	X	0.44065	315.24248	334.04056	11.64118	0.1835053	0.23067799	2.6330874	21	7 19.7	17.9
150530 2000 SN_{50}	16.0	X	272.22829	55.30060	249.25430	2.22431	0.0685127	0.21932007	2.7232267	21	3 27.8	19.7
150531 2000 SR_{50}	15.4	X	111.94032	219.20448	305.41704	4.81307	0.1218399	0.22563052	2.6722114	21	7 13.0	19.3
150532 2000 SQ_{53}	16.1	X	102.95992	243.64859	191.50974	4.90450	0.1509837	0.21134634	2.7912982	21	3 10.9	19.8
150533 2000 SE_{57}	15.9	X	103.12508	48.67049	304.35883	1.02447	0.0823392	0.20216842	2.8751500	21	—	—
150534 2000 SK_{57}	15.8	X	134.32758	59.74145	336.39935	3.69023	0.0730471	0.21126213	2.7920398	21	2 18.4	19.6
150535 2000 SH_{62}	15.8	X	146.34322	45.51308	0.01819	1.03971	0.0847098	0.21360856	2.7715557	21	3 16.7	19.9
150536 2000 SG_{77}	15.7	X	59.57106	74.16041	188.21274	11.79488	0.2350601	0.23550535	2.5969816	21	10 3.6	19.0
150537 2000 SV_{77}	15.9	X	214.27046	316.17820	340.19371	3.52142	0.0888898	0.21032220	2.8003521	21	1 15.8	20.3
150538 2000 SZ_{102}	15.7	X	197.48526	146.52084	212.05968	1.23905	0.1265185	0.21474405	2.7617771	21	3 13.5	20.1
150539 2000 SS_{128}	15.8	X	305.75101	245.15827	159.80436	5.87361	0.3333820	0.18250402	3.0781357	21	8 14.3	19.1
150540 2000 SR_{133}	15.6	X	211.86918	14.58782	310.36169	8.34376	0.1512754	0.21384040	2.7695521	21	2 14.0	20.2
150541 2000 ST_{142}	15.0	X	124.74627	19.86250	346.01777	12.42575	0.1333672	0.20417544	2.8562774	21	1 13.1	19.2
150542 2000 SW_{157}	16.0	X	251.84746	124.83249	253.73808	4.25446	0.1917416	0.17668389	3.1453677	21	5 27.0	20.8
150543 2000 ST_{161}	16.0	X	162.61823	237.77944	138.81724	7.52984	0.1292619	0.21305663	2.7763402	21	3 3.8	20.3
150544 2000 SG_{164}	16.4	X	85.75481	305.35700	174.72076	22.80558	0.0846876	0.35626274	1.9707088	21	3 13.2	17.9
150545 2000 SR_{166}	15.3	X	17.93293	313.41643	336.98497	11.14954	0.1781212	0.23091322	2.6312989	21	8 26.8	17.7
150546 2000 SD_{168}	15.3	X	9.08212	163.08353	225.11619	12.33856	0.2046470	0.19148269	2.9811445	21	12 19.6	18.9
150547 2000 ST_{174}	15.8	X	210.36303	23.17538	298.44936	9.58690	0.1056118	0.21093855	2.7948944	21	2 8.5	20.2
150548 2000 SE_{176}	15.1	X	258.49035	322.28648	353.03321	12.31641	0.1649196	0.21655914	2.7463235	21	3 16.6	19.5
150549 2000 SQ_{181}	16.0	X	62.49560	159.98535	117.97644	5.23533	0.1757670	0.23786801	2.5797564	21	10 21.6	19.6
150550 2000 SV_{182}	15.4	X	63.96431	245.22157	180.16950	7.28924	0.0567954	0.20464013	2.8519518	21	—	—
150551 2000 SY_{193}	16.4	X	19.06701	305.22580	16.08279	3.11792	0.1365559	0.23627201	2.5913606	21	10 8.0	19.2
150552 2000 SC_{194}	15.7	X	236.11791	21.16954	356.56795	5.63072	0.0275372	0.22375283	2.6871404	21	5 21.6	19.5
150553 2000 SM_{196}	16.0	X	95.29081	62.53724	178.25981	8.08310	0.1622822	0.23651498	2.5895856	21	10 7.4	19.8
150554 2000 SS_{204}	15.0	X	240.41316	1.96560	29.46308	6.28769	0.1060059	0.17604672	3.1529524	21	6 8.0	19.8
150555 2000 SK_{206}	15.8	X	168.54182	343.16601	46.41206	3.44082	0.1944208	0.21283965	2.7782267	21	3 28.8	20.3
150556 2000 ST_{206}	15.9	X	268.79596	198.58590	140.80769	7.10778	0.2224019	0.22174132	2.7033667	21	4 22.5	20.1
150557 2000 SQ_{215}	15.7	X	92.41022	57.98746	19.69917	4.33602	0.0841606	0.21028644	2.8006696	21	2 21.0	19.3
150558 2000 SY_{235}	16.2	X	89.10656	292.51104	333.52404	1.86597	0.1827477	0.23808397	2.5781961	21	11 2.2	20.0
150559 2000 SA_{236}	16.4	X	79.16272	255.29575	5.80987	2.72392	0.1592029	0.23692206	2.5866186	21	10 14.1	19.9
150560 2000 SF_{246}	15.6	X	110.26284	61.61574	44.91681	5.51286	0.0713922	0.21719935	2.7409243	21	4 18.9	19.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
150561 2000 SL_{246}	15.6	X	124.48150	211.95197	152.77618	9.99423	0.1433542	0.20623892	2.8371936	21	1 8.8	19.7
150562 2000 SR_{249}	16.1	X	36.09902	117.58202	164.88573	7.73253	0.1847992	0.23414780	2.6070098	21	9 19.4	19.0
150563 2000 ST_{276}	14.8	X	167.57705	258.53480	326.70073	9.85931	0.2213317	0.24175216	2.5520498	21	11 18.9	19.4
150564 2000 SV_{284}	15.3	X	284.03160	110.49961	258.91935	5.72960	0.1210998	0.17987254	3.1080844	21	6 30.4	19.6
150565 2000 SY_{305}	15.5	X	211.44784	131.61294	293.41334	9.51164	0.2195886	0.17445222	3.1721354	21	6 14.8	21.0
150566 2000 SG_{313}	15.1	X	335.79314	340.24114	295.72141	14.05276	0.0710707	0.22138644	2.7062549	21	5 13.2	18.8
150567 2000 SO_{336}	15.7	X	226.59318	5.73924	335.77799	8.17719	0.1565096	0.21536447	2.7564705	21	3 17.7	20.1
150568 2000 SC_{341}	15.9	X	171.72643	57.44548	336.09361	4.23510	0.0578948	0.21691640	2.7433073	21	3 26.3	20.0
150569 2000 ST_{348}	15.5	X	176.49489	255.83561	97.04926	9.67184	0.1671164	0.21198547	2.7856848	21	2 20.8	20.1
150570 2000 SE_{352}	15.9	X	148.90734	309.32966	54.85976	9.24361	0.2178778	0.21066692	2.7972964	21	2 14.4	20.5
150571 2000 SE_{368}	15.8	X	192.97398	124.78306	258.09470	5.16067	0.0313083	0.21851513	2.7299103	21	4 4.3	19.8
150572 2000 TQ_{10}	15.7	X	354.95532	93.12740	13.48723	15.73037	0.1825537	0.19832406	2.9121860	21	—	—
150573 2000 TK_{34}	15.6	X	179.14301	309.35266	49.13440	7.02674	0.0248393	0.21080435	2.7960805	21	2 22.5	19.6
150574 2000 TR_{36}	15.9	X	132.28494	279.67517	98.15049	3.10813	0.0934754	0.20654429	2.8343964	21	1 28.2	19.8
150575 2000 TM_{41}	15.8	X	109.64342	237.40736	170.21615	9.30560	0.1644163	0.20923171	2.8100737	21	2 14.5	19.8
150576 2000 TP_{49}	14.1	X	202.37905	135.69882	75.14211	12.86490	0.1933063	0.24288663	2.5440968	21	12 6.1	18.0
150577 2000 UQ_{19}	14.3	X	273.60051	188.35740	213.55262	27.49272	0.1529152	0.17960676	3.1111499	21	7 17.0	19.3
150578 2000 UU_{20}	15.6	X	113.65634	281.88815	66.10148	2.99352	0.0866034	0.20009020	2.8950240	21	—	—
150579 2000 UJ_{21}	15.5	X	278.84816	222.93285	131.43939	3.12090	0.2145948	0.17694871	3.1422286	21	5 23.5	20.2
150580 2000 UY_{39}	15.5	X	304.24069	12.22344	42.31765	5.48892	0.1795338	0.18348890	3.0671111	21	9 22.1	19.2
150581 2000 UE_{68}	14.7	X	255.63183	141.08469	340.59500	9.81773	0.0534295	0.18777236	3.0202874	21	10 21.8	19.1
150582 2000 UP_{69}	15.4	X	301.79703	37.08835	12.46232	6.01897	0.2450732	0.18249987	3.0781824	21	8 31.7	19.1
150583 2000 UH_{75}	15.1	X	17.59545	77.25183	335.34061	11.27938	0.0499832	0.19435319	2.9517185	21	—	—
150584 2000 VC_{45}	15.7	X	212.73681	340.01694	1.62831	5.28110	0.0324049	0.21195389	2.7859616	21	3 10.3	19.6
150585 2000 WN_{9}	14.7	X	246.94404	98.27648	53.79198	21.68870	0.2603144	0.18519781	3.0482142	21	10 29.9	19.4
150586 2000 WQ_{16}	15.6	X	311.01179	349.00661	74.44169	2.06415	0.1680103	0.18402622	3.0611381	21	10 15.8	19.0
150587 2000 WF_{26}	15.2	X	267.59190	349.70270	85.91860	1.81271	0.1921637	0.17741025	3.1367765	21	8 23.9	19.8
150588 2000 WS_{26}	15.4	X	301.69623	12.20087	59.16724	2.39540	0.1545136	0.18338572	3.0682616	21	10 12.1	19.2
150589 2000 WV_{41}	15.0	X	267.06830	212.39420	221.42865	9.23769	0.0979813	0.17721743	3.1390514	21	8 30.1	19.6
150590 2000 WQ_{75}	14.9	X	211.37697	248.62936	257.57578	15.19659	0.1783489	0.18084793	3.0968989	21	9 15.1	20.2
150591 2000 WF_{94}	15.1	X	264.35021	12.07570	63.40638	8.13371	0.1491374	0.17753657	3.1352885	21	8 29.3	19.7
150592 2000 WG_{99}	14.9	X	293.00058	171.56897	260.56244	9.74440	0.0441808	0.18207577	3.0829605	21	10 8.6	19.3
150593 2000 WM_{129}	15.0	X	310.67776	183.39066	245.16457	8.94492	0.0613163	0.18656644	3.0332884	21	10 29.9	19.1
150594 2000 WY_{129}	14.8	X	242.82392	62.48901	4.84222	13.09111	0.2665018	0.17338307	3.1851625	21	7 12.9	20.3
150595 2000 WK_{132}	14.9	X	57.81025	21.92650	334.52827	10.76530	0.1177919	0.19325234	2.9629174	21	—	—
150596 2000 WE_{136}	15.1	X	267.00216	247.16045	251.33528	8.97491	0.0389359	0.18984737	2.9982396	21	12 2.2	19.0
150597 2000 WA_{140}	15.7	X	97.06374	356.52917	24.20791	1.97788	0.0814680	0.19988843	2.8969719	21	—	—
150598 2000 WS_{145}	15.3	X	249.26382	285.91448	159.27775	17.01038	0.1848908	0.17702454	3.1413313	21	8 14.3	20.1
150599 2000 WK_{161}	15.1	X	327.87875	252.87779	166.58214	10.78815	0.0444339	0.18687324	3.0299675	21	11 16.4	19.3
150600 2000 WB_{175}	14.9	X	275.30162	231.27136	211.63125	16.12648	0.2515443	0.17987586	3.1080462	21	8 28.4	19.6
150601 2000 WR_{181}	15.4	X	248.70757	332.73693	125.86241	16.75288	0.2201607	0.17877017	3.1208485	21	8 30.1	20.3
150602 2000 WV_{183}	14.9	X	291.20155	74.88054	25.20262	15.95988	0.0630640	0.18768611	3.0212127	21	11 9.5	19.1
150603 2000 XV_{3}	15.0	X	317.88352	35.44504	3.61904	10.80505	0.1018371	0.18309288	3.0715323	21	9 29.9	18.8
150604 2000 XY_{8}	14.5	X	283.18199	315.32674	74.58407	17.47138	0.2323934	0.17459618	3.1703914	21	7 9.3	19.1
150605 2000 XV_{11}	15.8	X	267.08425	71.22830	359.70612	9.58279	0.2618586	0.17754166	3.1352285	21	8 10.5	20.5
150606 2000 XN_{30}	15.3	X	229.38091	212.75724	297.34770	11.98260	0.1955946	0.18233007	3.0800931	21	10 6.1	20.4
150607 2000 XT_{32}	15.1	X	294.86513	34.52229	45.24048	10.77880	0.0740414	0.18136303	3.0910323	21	10 23.1	19.1
150608 2000 XG_{40}	14.6	X	263.09349	112.39663	308.45935	21.18652	0.1507783	0.17646714	3.1479426	21	8 4.1	19.0
150609 2000 XY_{44}	15.6	X	169.47758	102.75896	2.05232	18.64219	0.0721206	0.36008583	1.9567351	21	6 24.3	18.5
150610 2000 YY_{10}	14.8	X	223.24955	108.27300	84.08259	22.92768	0.1016435	0.18441324	3.0568537	21	12 7.1	19.3
150611 2000 YR_{12}	14.8	X	212.59587	235.86921	268.04119	8.95139	0.2499532	0.17701108	3.1414905	21	9 11.3	20.4
150612 2000 YJ_{36}	15.0	X	336.40561	305.16882	110.01425	10.75304	0.1769038	0.18467629	3.0539502	21	11 23.5	18.4
150613 2000 YF_{39}	15.2	X	275.05888	342.21112	136.04168	5.54470	0.1736033	0.18305292	3.0719792	21	10 30.9	19.3
150614 2000 YA_{42}	14.9	X	170.63293	33.99391	103.27367	14.48596	0.0502558	0.17076558	3.2176279	21	8 8.2	19.7
150615 2000 YS_{42}	15.0	X	259.76591	177.28989	276.19721	9.59054	0.0664218	0.17781669	3.1319948	21	9 17.6	19.6
150616 2000 YV_{43}	15.3	X	306.42113	70.62874	293.64433	8.14636	0.3506312	0.17744602	3.1363550	21	6 19.1	19.2
150617 2000 YM_{53}	15.2	X	271.79432	313.35780	95.39504	2.41136	0.2104818	0.17424462	3.1746544	21	7 22.9	19.8
150618 2000 YO_{64}	14.3	X	7.69554	75.07587	291.92769	20.20574	0.0779369	0.18017201	3.1046394	21	10 27.3	18.8
150619 2000 YM_{69}	14.8	X	38.07791	111.30088	245.58376	3.61447	0.2477018	0.18973953	2.9993755	21	12 28.8	18.9
150620 2000 YM_{71}	15.4	X	250.74403	194.78946	255.72688	10.81682	0.1913298	0.17647071	3.1479002	21	8 17.9	20.4
150621 2000 YA_{79}	14.9	X	38.80611	292.72817	94.74370	12.01357	0.0529296	0.19007484	2.9958470	21	—	—
150622 2000 YD_{81}	14.8	X	218.22604	260.54325	247.01117	9.99101	0.1723234	0.18025449	3.1036923	21	9 26.8	19.9
150623 2000 YF_{110}	15.0	X	264.69041	87.82871	311.27656	8.39603	0.1041101	0.17118958	3.2123128	21	7 17.5	19.5
150624 2000 YF_{125}	14.9	X	187.21970	110.58987	64.37089	17.05969	0.1779920	0.17631501	3.1497532	21	10 12.9	20.3
150625 2000 YN_{130}	16.0	X	258.68236	255.75906	162.30827	1.35597	0.1751359	0.17527726	3.1621733	21	7 23.9	20.8
150626 2001 AG_{7}	14.7	X	327.40015	270.99180	119.91922	17.15000	0.2327791	0.18053177	3.1005135	21	10 3.4	18.2
150627 2001 AU_{26}	15.3	X	238.18133	34.49565	58.53556	9.98117	0.1903538	0.17365731	3.1818082	21	8 17.3	20.4
150628 2001 AX_{32}	14.7	X	35.02801	312.18072	76.63681	12.44497	0.0953462	0.18819411	3.0157733	21	—	—
150629 2001 AU_{40}	14.9	X	186.26133	247.53882	307.19567	8.77341	0.0295240	0.18016511	3.1047187	21	10 31.3	19.6
150630 2001 AQ_{45}	14.9	X	247.82834	93.96200	336.19244	10.36164	0.1756082	0.17213535	3.2005357	21	7 29.6	19.8
150631 2001 AK_{48}	15.2	X	150.79395	141.77818	104.42073	3.18639	0.0544616	0.18341472	3.0679381	21	11 26.6	19.7
150632 2001 BY_{6}	15.0	X	322.36252	355.38490	52.64288	5.44360	0.1515129	0.18134053	3.0912880	21	10 17.2	18.5
150633 2001 BE_{8}	14.7	X	214.43292	220.32931	316.17893	16.05279	0.1634631	0.17965081	3.1106413	21	10 24.6	19.9
150634 2001 BY_{25}	14.7	X	217.82194	216.77326	305.09999	13.71114	0.1344827	0.17828939	3.1264565	21	10 13.6	19.8
150635 2001 BM_{40}	15.0	X	278.44907	93.09575	309.13677	11.57501	0.1248633	0.17223288	3.1993273	21	8 3.8	19.5
150636 2001 BR_{50}	14.3	X	187.71836	184.71297	5.92537	26.94189	0.1094180	0.17471782	3.1689199	21	10 18.3	19.5
150637 2001 BL_{55}	14.8	X	209.02478	251.58820	277.65423	15.48947	0.0968672	0.17867589	3.1219462	21	10 17.8	19.9
150638 2001 BO_{80}	14.9	X	184.67925	13.36366	157.01639	23.18114	0.0213570	0.17591414	3.1545365	21	10 7.4	19.6
150639 2001 CX_{8}	14.9	X	129.07737	71.01792	132.34985	21.27725	0.0997236	0.17015648	3.2253020	21	9 18.6	20.0
150640 2001 CQ_{20}	14.2	X	207.50957	121.55137	84.42195	27.19950	0.2373612	0.17575678	3.1564190	21	11 27.6	19.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
150641 2001 CU_{25}	14.7	X	97.24046	313.29876	352.34083	9.54249	0.0222105	0.17999490	3.1066757	21	12 2.9	19.3
150642 2001 CZ_{31}	5.8	X	342.57717	48.58447	136.29363	10.24183	0.1144841	0.00327504	44.9081713	21	3 4.6	21.8
150643 2001 CB_{39}	15.2	X	190.25108	77.40471	78.17433	14.94380	0.1864946	0.17364850	3.1819159	21	9 22.3	20.7
150644 2001 DR_{27}	16.7	X	229.26458	141.71295	43.26536	4.31602	0.1678679	0.27622281	2.3350509	21	12 10.9	19.8
150645 2001 DF_{35}	14.5	X	352.42541	38.52447	319.02289	14.60872	0.1251221	0.17482153	3.1676664	21	9 23.5	18.5
150646 2001 DX_{36}	16.9	X	228.42030	51.61477	159.23566	4.61240	0.1668668	0.27931007	2.3178126	21	—	—
150647 2001 DU_{71}	14.7	X	138.40682	342.14648	167.33555	9.19266	0.0814404	0.16208617	3.3314918	21	7 17.0	19.8
150648 2001 DA_{74}	14.9	X	193.17451	352.34523	165.02551	15.67867	0.2028415	0.17261329	3.1946250	21	9 19.2	20.3
150649 2001 DK_{88}	14.6	X	203.36524	226.63093	323.27007	12.95225	0.2296376	0.17500741	3.1654230	21	10 26.9	20.2
150650 2001 DN_{91}	15.6	X	179.44587	47.04838	134.22337	1.95207	0.1198523	0.17416967	3.1755651	21	10 8.0	20.6
150651 2001 DR_{94}	15.2	X	228.62572	294.14609	175.48245	1.26459	0.1278062	0.16994917	3.2279244	21	8 29.6	20.1
150652 2001 DG_{98}	14.6	X	134.50164	71.29013	141.77184	26.41651	0.1642337	0.17097936	3.2149453	21	10 10.9	20.2
150653 2001 DT_{100}	14.2	X	198.81567	270.17427	336.80595	21.50425	0.2972075	0.18171198	3.0870738	21	—	—
150654 2001 DR_{105}	14.9	X	200.81354	353.56931	177.14651	4.92231	0.1259139	0.17658190	3.1465787	21	10 15.8	19.7
150655 2001 EO_{2}	14.5	X	186.20962	104.91153	62.79206	11.28686	0.1438464	0.17201506	3.2020276	21	10 1.9	19.8
150656 2001 EE_{6}	15.3	X	190.28722	192.98049	31.95341	8.21722	0.1537930	0.17642197	3.1484800	21	12 4.1	20.4
150657 2001 EJ_{21}	16.5	X	53.67710	249.77370	252.95990	3.71760	0.0763142	0.29593313	2.2301821	21	2 28.9	18.7
150658 2001 FN_{39}	14.4	X	161.32141	58.60732	175.14059	27.37964	0.1428784	0.17481986	3.1676866	21	11 23.3	20.0
150659 2001 FY_{74}	16.9	X	180.04626	152.95123	40.19446	4.23049	0.1168686	0.26822845	2.3812198	21	11 1.5	20.5
150660 2001 FG_{106}	16.9	X	338.07201	313.89132	289.69020	4.56431	0.1727057	0.29561392	2.2317873	21	3 6.4	19.3
150661 2001 FU_{188}	14.7	X	182.43826	95.03789	124.90383	17.91924	0.1242214	0.17605448	3.1528599	21	11 28.6	20.0
150662 2001 HG_{37}	16.0	X	358.19483	230.55759	44.05149	6.73145	0.2159957	0.29638281	2.2279257	21	6 10.9	17.1
150663 2001 JN_{6}	17.3	X	30.22517	208.73068	70.04444	2.26133	0.1755861	0.30261594	2.1972266	21	9 11.2	19.2
150664 2001 KQ_{18}	17.0	X	236.68681	167.84654	136.22506	5.54905	0.2118667	0.28265522	2.2994892	21	2 1.9	20.8
150665 2001 KE_{22}	17.4	X	36.65528	117.68094	143.15142	1.06263	0.1461576	0.30106809	2.2047511	21	8 18.2	19.2
150666 2001 KH_{41}	16.8	X	5.61825	155.41345	94.68207	5.65572	0.1300955	0.29500045	2.2348803	21	5 22.7	18.5
150667 2001 KV_{66}	15.4	X	335.06857	91.02476	169.16290	22.19290	0.1713819	0.28841288	2.2687829	21	4 2.6	17.7
150668 2001 MP_{4}	15.6	X	320.78771	278.99132	72.21119	8.28248	0.2824834	0.24566582	2.5248731	21	7 8.9	17.8
150669 2001 MZ_{9}	16.5	X	335.13979	294.37230	314.88767	7.18574	0.0895155	0.28774281	2.2723038	21	3 23.9	19.1
150670 2001 MX_{17}	15.2	X	303.69457	123.47493	247.82734	14.00452	0.2052981	0.24408933	2.5357330	21	7 15.8	18.2
150671 2001 MZ_{20}	16.4	X	133.07246	231.01837	105.71942	3.88169	0.2159295	0.26851818	2.3795066	21	—	—
150672 2001 MJ_{28}	15.8	X	261.31087	160.30277	202.60073	5.64395	0.3305214	0.23721800	2.5844668	21	5 1.4	20.2
150673 2001 NW_{4}	17.1	X	138.66561	0.67798	296.33804	2.63635	0.1269409	0.26568625	2.3963854	21	—	—
150674 2001 NK_{12}	17.0	X	265.39759	161.58191	116.01432	4.25523	0.2378551	0.28140937	2.3062711	21	1 23.4	20.8
150675 2001 NF_{16}	16.9	X	117.98514	128.41850	132.15615	2.79243	0.1129674	0.30835135	2.1698955	21	11 30.2	20.0
150676 2001 OY_{1}	16.3	X	279.98483	188.30486	72.71227	8.00948	0.0755318	0.27985174	2.3148208	21	2 1.9	19.5
150677 2001 OP_{8}	16.5	X	296.10061	333.85138	298.12296	6.55373	0.1268091	0.28331885	2.2958970	21	2 24.2	19.7
150678 2001 OY_{8}	15.1	X	213.04881	188.46968	174.55652	14.77692	0.1887771	0.23105749	2.6302034	21	4 1.9	19.5
150679 2001 OB_{10}	17.0	X	146.53460	254.50705	77.01942	2.31163	0.2019915	0.27014225	2.3699602	21	—	—
150680 2001 OZ_{42}	15.8	X	263.91536	135.96359	280.05688	7.53934	0.1561009	0.24078143	2.5589044	21	7 30.6	19.3
150681 2001 OX_{47}	16.3	X	294.28748	347.95249	295.29666	5.13554	0.1643431	0.28447484	2.2896731	21	3 3.9	19.5
150682 2001 OS_{49}	16.3	X	246.33393	229.87115	153.20110	5.18948	0.2054442	0.23826773	2.5768703	21	5 24.9	20.5
150683 2001 OE_{51}	16.0	X	2.19910	33.38751	3.45805	6.25430	0.1371306	0.25806518	2.4433355	21	12 30.4	18.8
150684 2001 OB_{60}	16.5	X	129.19332	211.23873	138.56963	4.59930	0.1175364	0.27029463	2.3690693	21	—	—
150685 2001 OP_{62}	16.6	X	356.83930	136.19290	145.81070	6.75620	0.1840515	0.29322255	2.2439050	21	6 24.4	18.2
150686 2001 OR_{62}	16.5	X	119.94999	206.94162	138.47922	7.25195	0.1273890	0.26689336	2.3891543	21	—	—
150687 2001 OR_{65}	16.5	X	215.47216	313.86283	31.89747	1.45485	0.2058145	0.28019532	2.3129281	21	3 8.4	20.1
150688 2001 OJ_{67}	16.4	X	163.91205	235.15155	113.88959	3.20628	0.2518315	0.27403195	2.3474801	21	1 31.5	20.1
150689 2001 OP_{69}	15.7	X	313.05105	12.22910	344.07360	5.34160	0.3165550	0.24332064	2.5410707	21	6 23.6	18.4
150690 2001 OO_{74}	16.8	X	133.05055	349.82680	337.92128	2.38012	0.2486998	0.26702427	2.3883734	21	—	—
150691 2001 OW_{86}	15.6	X	285.08805	214.07565	152.45441	5.62683	0.3063786	0.23980826	2.5658226	21	5 31.4	19.3
150692 2001 OL_{89}	16.2	X	202.78756	24.97674	281.91231	5.13779	0.1257390	0.27548442	2.3392215	21	1 6.2	19.4
150693 2001 OH_{95}	16.9	X	221.85441	335.32868	358.81306	3.36964	0.1793570	0.28101571	2.3084244	21	2 27.6	20.4
150694 2001 OM_{96}	15.9	X	192.18141	358.09018	303.15250	8.58641	0.2633653	0.27063282	2.3670953	21	—	—
150695 2001 OJ_{98}	16.5	X	130.44297	273.37769	35.38489	3.50109	0.1635686	0.26427109	2.4049328	21	—	—
150696 2001 OE_{102}	16.0	X	241.15665	193.70321	211.18876	4.34832	0.3102067	0.23811401	2.5779793	21	6 7.5	20.4
150697 2001 PS_{2}	17.0	X	341.23457	144.62306	121.80724	3.96865	0.2042020	0.28939197	2.2636628	21	4 17.9	18.8
150698 2001 PG_{7}	16.4	X	351.73814	158.74952	173.79619	3.24778	0.1413523	0.29590546	2.2303211	21	9 11.2	18.1
150699 2001 PU_{8}	16.5	X	255.36299	158.23938	151.15338	8.23967	0.1433725	0.27984764	2.3148434	21	3 1.4	19.8
150700 2001 PB_{20}	16.5	X	331.39439	191.45193	55.12371	4.20863	0.1336443	0.28524019	2.2855755	21	3 13.5	18.9
150701 2001 PT_{21}	16.7	X	334.49741	209.32444	137.09101	2.76755	0.1748090	0.24629863	2.5205465	21	8 18.8	18.8
150702 2001 PT_{22}	16.7	X	274.74997	118.39818	171.76570	5.65424	0.1771603	0.28240465	2.3008492	21	2 19.9	20.1
150703 2001 PK_{32}	15.6	X	279.68352	311.14641	47.61610	6.29489	0.3192808	0.23950476	2.5679898	21	5 12.6	19.5
150704 2001 PE_{37}	15.7	X	123.06107	152.94580	98.06690	11.33383	0.2776102	0.25816627	2.4426977	21	11 23.4	20.1
150705 2001 PC_{38}	15.5	X	219.52570	17.50299	19.43258	13.89909	0.3595587	0.23376110	2.6098841	21	5 8.0	20.5
150706 2001 PZ_{43}	16.0	X	204.61603	271.08778	28.04049	4.90287	0.1638547	0.22411180	2.6842702	21	1 9.2	20.4
150707 2001 PG_{45}	16.2	X	270.66647	97.79134	165.49101	6.60963	0.0924473	0.27569680	2.3380201	21	1 20.8	19.5
150708 2001 PK_{58}	16.3	X	174.44531	163.10630	148.91529	7.09971	0.1385364	0.26932321	2.3747625	21	—	—
150709 2001 PF_{61}	16.2	X	348.11111	188.51456	77.41200	6.29481	0.1936802	0.28964787	2.2623293	21	5 4.2	17.9
150710 2001 PX_{61}	16.9	X	176.22428	130.27877	171.63807	2.46233	0.2280865	0.26954712	2.3734473	21	—	—
150711 2001 PE_{62}	16.3	X	340.62136	25.01899	201.38700	3.67786	0.0918800	0.28131263	2.3067997	21	3 2.7	18.8
150712 2001 QD	17.1	X	257.00104	173.84898	140.87232	3.45690	0.2341282	0.28201468	2.3029698	21	3 3.4	20.8
150713 2001 QF	17.0	X	228.97985	159.51574	148.43678	2.92501	0.2197615	0.27740547	2.3284095	21	1 31.7	20.9
150714 2001 QL_{4}	16.2	X	0.72821	63.15439	320.98878	7.45580	0.1105394	0.25487560	2.4636776	21	12 4.1	19.0
150715 2001 QJ_{5}	16.1	X	77.08035	358.71377	342.03478	5.61694	0.1171993	0.26043921	2.4284647	21	—	—
150716 2001 QN_{5}	16.6	X	309.44385	262.30003	121.43302	3.58633	0.2543853	0.24584854	2.5236219	21	8 10.8	18.9
150717 2001 QT_{7}	16.1	X	313.38480	32.02425	328.82465	4.25641	0.2488136	0.24431098	2.5341990	21	7 15.1	18.4
150718 2001 QT_{13}	16.2	X	295.67914	324.65304	345.73332	8.82839	0.2319890	0.28661491	2.2782613	21	4 1.2	19.3
150719 2001 QQ_{17}	16.8	X	228.21604	258.28002	47.58633	2.99507	0.1770063	0.27727333	2.3291493	21	1 30.2	20.5
150720 2001 QB_{19}	16.3	X	108.66545	122.78573	184.25407	0.66046	0.2013957	0.25997972	2.4313253	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
150721 2001 QN_{21}	16.1	X	113.22118	159.96594	182.67653	7.69375	0.1519616	0.26309392	2.4121011	21	—	—
150722 2001 QJ_{22}	15.7	X	123.51886	17.06031	342.97525	5.69351	0.1615133	0.26539813	2.3981194	21	—	—
150723 2001 QF_{24}	16.3	X	182.44266	269.61362	28.11415	2.85982	0.1923161	0.26893245	2.3770624	21	—	—
150724 2001 QB_{32}	15.8	X	195.70709	238.12305	162.89858	11.60588	0.2536055	0.23161622	2.6259719	21	5 5.2	20.6
150725 2001 QD_{32}	16.1	X	130.24713	37.24836	296.48740	5.52969	0.1478989	0.26460118	2.4029323	21	—	—
150726 2001 QL_{36}	17.0	X	150.97473	11.44651	318.72714	2.52683	0.1950816	0.26987594	2.3715190	21	—	—
150727 2001 QP_{38}	16.4	X	113.74988	231.60707	99.37188	2.37576	0.1944232	0.26487080	2.4013013	21	—	—
150728 2001 QK_{39}	16.8	X	116.28751	223.56892	144.04995	1.82496	0.1898443	0.26907001	2.3762521	21	—	—
150729 2001 QG_{40}	17.0	X	84.42360	245.06371	89.57265	0.21600	0.2295243	0.26116742	2.4239485	21	—	—
150730 2001 QN_{44}	16.7	X	102.27141	354.81209	21.09015	1.47621	0.1953508	0.26707614	2.3880641	21	—	—
150731 2001 QW_{45}	16.8	X	205.36473	176.46353	144.88121	2.82662	0.1226664	0.27585354	2.3371343	21	1 26.4	20.1
150732 2001 QG_{46}	16.8	X	112.91397	167.81299	186.26166	1.78117	0.1997364	0.26607624	2.3940432	21	—	—
150733 2001 QR_{49}	17.2	X	266.57545	149.69536	149.42257	7.10739	0.1867934	0.28182267	2.3040157	21	2 23.6	20.8
150734 2001 QG_{50}	16.3	X	276.75606	247.30793	146.48354	4.92527	0.2905425	0.24155544	2.5534352	21	6 28.1	19.9
150735 2001 QX_{50}	16.8	X	263.49581	237.42791	138.81985	6.00361	0.2485325	0.23856318	2.5747423	21	5 28.7	20.8
150736 2001 QW_{51}	15.9	X	357.37660	184.42568	104.64872	6.62119	0.1695698	0.24411357	2.5355651	21	7 9.0	18.0
150737 2001 QA_{55}	16.8	X	141.00924	174.40142	119.65273	3.52209	0.1821793	0.26365891	2.4086540	21	—	—
150738 2001 QP_{62}	16.1	X	252.23562	37.83096	321.68673	4.18908	0.2681641	0.23517415	2.5994192	21	4 22.5	20.5
150739 2001 QA_{67}	15.0	X	228.07557	54.57608	1.68409	5.68821	0.3277654	0.23527792	2.5986549	21	6 9.9	19.8
150740 2001 QF_{69}	15.8	X	277.78056	122.83909	257.72006	5.61720	0.1983023	0.24041477	2.5615055	21	6 24.8	19.4
150741 2001 QE_{85}	16.1	X	338.48321	27.27500	16.37081	6.80835	0.1247290	0.25381375	2.4705442	21	11 23.3	18.6
150742 2001 QY_{85}	16.7	X	221.65502	54.65665	6.18982	3.94124	0.2751816	0.23420560	2.6065808	21	6 13.8	21.4
150743 2001 QS_{87}	15.9	X	30.44745	55.45621	349.48564	6.18251	0.1182872	0.26167941	2.4207857	21	—	—
150744 2001 QE_{94}	17.0	X	40.45626	230.96064	139.62237	2.04843	0.1890870	0.25629421	2.4545781	21	—	—
150745 2001 QU_{113}	16.3	X	355.91669	267.87807	279.91854	7.06061	0.1219032	0.27539243	2.3397424	21	1 27.6	18.7
150746 2001 QH_{118}	16.1	X	92.59119	26.92503	306.68173	5.63722	0.1387405	0.25942279	2.4348038	21	—	—
150747 2001 QL_{118}	15.7	X	252.21774	165.63897	334.74388	15.72161	0.0234844	0.25286288	2.4767338	21	11 25.6	19.3
150748 2001 QT_{119}	16.6	X	170.83006	164.98616	145.26556	8.40784	0.1667964	0.26838843	2.3802735	21	—	—
150749 2001 QJ_{120}	15.9	X	278.69669	242.64915	133.46524	4.74464	0.2944462	0.23856504	2.5747289	21	6 7.1	19.6
150750 2001 QS_{123}	16.8	X	128.28862	248.80996	50.61135	2.13293	0.1932308	0.26290955	2.4132287	21	—	—
150751 2001 QK_{125}	16.6	X	14.15652	359.77541	28.10110	3.39210	0.1959137	0.25502602	2.4627088	21	—	—
150752 2001 QE_{131}	16.0	X	292.74537	70.60666	314.57096	12.17240	0.1904347	0.24334548	2.5408977	21	7 25.7	18.8
150753 2001 QS_{134}	16.1	X	141.25377	93.53479	298.94317	8.07419	0.2775865	0.22084531	2.7106738	21	3 9.7	20.7
150754 2001 QJ_{139}	16.2	X	290.48705	37.35350	295.88019	6.26434	0.2340637	0.23571257	2.5954593	21	4 30.3	19.9
150755 2001 QP_{140}	15.9	X	85.24608	156.19694	256.92652	9.77867	0.3284302	0.21305056	2.7763930	21	2 10.1	19.3
150756 2001 QB_{148}	15.6	X	222.50046	286.29298	117.78368	9.75173	0.2492789	0.23147531	2.6270375	21	5 28.5	20.2
150757 2001 QX_{154}	15.4	X	1.94804	95.22525	185.83101	11.65656	0.0764200	0.19257460	2.9698650	21	7 4.3	19.4
150758 2001 QV_{155}	16.6	X	250.40431	179.02368	204.34061	2.87946	0.2399784	0.23722514	2.5844149	21	5 25.2	20.8
150759 2001 QE_{157}	16.6	X	348.51387	88.58971	200.52540	3.96863	0.2417565	0.29254096	2.2473890	21	6 8.3	17.6
150760 2001 QO_{161}	16.5	X	97.66699	335.23589	1.42778	4.47626	0.1929853	0.26173435	2.4204470	21	—	—
150761 2001 QA_{180}	15.3	X	205.94707	252.24312	143.29116	15.79736	0.2091717	0.23169195	2.6253996	21	5 9.0	20.0
150762 2001 QD_{197}	16.5	X	355.55901	168.61672	178.04288	5.24463	0.1459946	0.24717643	2.5145755	21	10 5.1	18.7
150763 2001 QM_{201}	16.3	X	263.50467	92.02271	284.48694	3.23713	0.2848482	0.23746296	2.5826891	21	5 23.4	20.5
150764 2001 QY_{204}	15.8	X	293.15812	338.59006	278.29474	5.14249	0.1293609	0.27958239	2.3163073	21	2 2.1	19.0
150765 2001 QE_{210}	17.3	X	207.91431	135.13376	173.03546	1.49835	0.1953397	0.27297499	2.3535358	21	1 15.3	21.2
150766 2001 QB_{212}	16.6	X	135.60818	134.67905	163.35325	4.18504	0.1614372	0.26204583	2.4185285	21	—	—
150767 2001 QQ_{216}	16.0	X	340.83379	47.51491	356.70567	14.74519	0.1694695	0.25149628	2.4856978	21	11 28.5	18.7
150768 2001 QE_{218}	16.6	X	251.07033	147.56155	148.18737	2.72357	0.2103488	0.27884775	2.3203738	21	2 4.0	20.5
150769 2001 QX_{227}	16.4	X	160.16227	45.59768	285.67976	0.55993	0.1977988	0.26860390	2.3790003	21	1 1.5	19.8
150770 2001 QX_{234}	16.4	X	123.95583	188.34482	152.14763	4.17451	0.1622044	0.26456437	2.4031552	21	—	—
150771 2001 QX_{236}	16.4	X	162.09985	339.82915	334.92993	5.02453	0.1154687	0.26655437	2.3911795	21	—	—
150772 2001 QV_{237}	16.6	X	51.20793	194.81679	143.00558	2.95775	0.2142295	0.25442144	2.4666086	21	12 28.9	20.1
150773 2001 QJ_{240}	17.1	X	301.24406	279.47430	351.20892	2.55134	0.1510232	0.28185339	2.3038483	21	2 28.4	19.9
150774 2001 QD_{245}	16.2	X	251.43722	173.94333	161.77514	6.54335	0.1322380	0.28084832	2.3093415	21	4 2.3	19.5
150775 2001 QY_{248}	15.8	X	249.58370	353.22166	49.85815	4.63520	0.1701895	0.23579780	2.5948338	21	6 25.7	19.6
150776 2001 QG_{256}	15.4	X	185.42798	38.14708	4.48559	12.83954	0.2627184	0.22875393	2.6478315	21	4 22.9	20.3
150777 2001 QW_{263}	16.3	X	252.13144	275.42681	68.53305	4.87951	0.3102322	0.23120644	2.6290737	21	4 4.9	21.0
150778 2001 QY_{267}	16.5	X	157.78145	340.92007	322.19109	5.94914	0.1381792	0.26590252	2.3950858	21	—	—
150779 2001 QO_{268}	15.2	X	316.03498	97.94007	271.69429	12.74576	0.1842295	0.24332788	2.5410203	21	8 7.9	17.9
150780 2001 QM_{272}	15.7	X	167.71637	218.99015	101.77392	10.15052	0.0736417	0.22068962	2.7119486	21	—	—
150781 2001 QO_{282}	15.0	X	218.85792	354.18442	25.10131	13.72965	0.2936817	0.22970833	2.6404922	21	4 21.1	19.8
150782 2001 QH_{291}	15.3	X	222.10217	78.36062	357.39863	14.90016	0.1189541	0.23708152	2.5854585	21	7 18.3	19.4
150783 2001 QC_{328}	15.5	X	268.69500	109.27336	288.74760	13.78861	0.1398319	0.23785341	2.5798619	21	7 15.6	18.8
150784 2001 RG_{6}	15.3	X	247.46169	142.69202	278.29928	21.58821	0.1213331	0.23954724	2.5676861	21	7 19.4	19.1
150785 2001 RJ_{19}	16.7	X	145.60789	157.89686	163.60872	5.40868	0.1430050	0.26687159	2.3892842	21	—	—
150786 2001 RT_{19}	16.9	X	335.55950	128.05422	146.33208	5.46101	0.1456544	0.28803898	2.2707459	21	4 29.9	19.0
150787 2001 RZ_{21}	16.2	X	289.71358	251.69770	328.04630	5.81660	0.0691049	0.27254213	2.3560271	21	—	—
150788 2001 RT_{26}	16.4	X	321.97749	59.59243	355.46292	6.07382	0.1089039	0.25129679	2.4870132	21	11 7.9	19.1
150789 2001 RM_{31}	16.2	X	287.30939	101.16697	153.05791	7.28929	0.0904331	0.27711629	2.3300291	21	1 28.4	19.2
150790 2001 RM_{33}	16.0	X	252.20854	83.66026	313.10464	11.00463	0.2179357	0.23939314	2.5687879	21	6 15.1	20.1
150791 2001 RB_{34}	16.1	X	298.18696	231.73582	258.73500	5.29897	0.0862116	0.26080683	2.4261822	21	—	—
150792 2001 RT_{34}	16.1	X	254.91830	167.15802	243.48159	5.14891	0.1506035	0.24182060	2.5515683	21	7 13.4	19.8
150793 2001 RJ_{38}	17.2	X	211.65127	79.60696	205.54113	1.80549	0.2020913	0.27162689	2.3613165	21	—	—
150794 2001 RY_{43}	16.2	X	204.39749	63.22660	342.04494	12.25654	0.1816055	0.23179455	2.6246248	21	5 10.4	20.8
150795 2001 RR_{52}	16.4	X	294.03911	289.47158	102.35617	2.82671	0.2091761	0.24384443	2.5374305	21	8 2.4	19.3
150796 2001 RO_{54}	16.3	X	157.86020	274.21873	26.52248	5.11214	0.0247168	0.26231639	2.4168652	21	—	—
150797 2001 RW_{57}	15.5	X	197.42009	83.45445	6.91596	12.47166	0.2148642	0.23645180	2.5900469	21	7 5.5	20.1
150798 2001 RO_{61}	16.2	X	198.91825	85.10498	353.46334	12.14851	0.1430970	0.23686956	2.5870007	21	6 22.4	20.5
150799 2001 RZ_{62}	16.4	X	290.94103	242.86595	132.15404	4.67017	0.2110384	0.24016709	2.5632662	21	7 3.2	19.7
150800 2001 RU_{74}	15.6	X	32.13695	348.07743	6.07277	5.55412	0.1005710	0.25113543	2.4880784	21	12 8.4	18.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
150801 2001 RF_{78}	15.5	X	86.29959	228.78894	191.62442	7.52002	0.3012611	0.21461708	2.7628662	21	2 18.8	18.8
150802 2001 RW_{81}	15.1	X	131.59018	257.11028	203.81738	14.57903	0.1474046	0.22419186	2.6836311	21	5 16.6	19.2
150803 2001 RL_{83}	16.3	X	195.16598	320.76938	311.28476	5.23369	0.2076668	0.26773608	2.3841384	21	—	—
150804 2001 RC_{88}	16.5	X	268.97581	228.03213	151.94651	3.46835	0.1616342	0.23804701	2.5784629	21	6 18.6	20.0
150805 2001 RP_{88}	16.8	X	33.88978	221.90292	111.74312	2.80161	0.2365964	0.25141688	2.4862212	21	12 6.0	19.8
150806 2001 RW_{91}	16.8	X	205.21916	283.82179	13.69288	1.29448	0.1874515	0.27128999	2.3632710	21	—	—
150807 2001 RT_{95}	17.3	X	136.95925	177.74359	164.01665	3.44783	0.1437860	0.26535740	2.3983649	21	—	—
150808 2001 RZ_{100}	16.1	X	322.38681	74.55712	6.70712	6.22474	0.1151414	0.25517578	2.4617451	21	12 19.7	18.7
150809 2001 RM_{103}	16.4	X	128.73400	208.72822	161.19279	2.15766	0.1003785	0.21977624	2.7194571	21	1 11.9	20.1
150810 2001 RN_{105}	16.7	X	146.33469	154.06781	140.32585	7.27839	0.1055213	0.26342268	2.4100938	21	—	—
150811 2001 RX_{110}	16.7	X	233.41434	167.44835	139.59678	4.65243	0.1967429	0.27723836	2.3293451	21	2 3.7	20.6
150812 2001 RA_{111}	15.8	X	266.69366	73.17462	1.56838	11.35131	0.1053455	0.24597776	2.5227380	21	9 10.3	19.0
150813 2001 RK_{113}	16.3	X	141.13023	38.59096	27.11932	2.36306	0.2567628	0.22547721	2.6734226	21	4 20.1	20.7
150814 2001 RB_{114}	16.6	X	313.40950	10.56482	10.82284	5.85728	0.2131254	0.24510369	2.5287321	21	8 24.9	18.8
150815 2001 RH_{114}	17.0	X	102.69922	244.38712	114.12247	4.96492	0.2093529	0.26361848	2.4089003	21	—	—
150816 2001 RS_{119}	16.1	X	228.48298	53.68010	12.06071	9.52279	0.1928743	0.23808494	2.5781891	21	7 2.3	20.4
150817 2001 RN_{126}	16.3	X	179.55048	186.73441	106.23831	4.51932	0.1283944	0.26707403	2.3880767	21	—	—
150818 2001 RZ_{126}	15.7	X	355.05819	26.81238	35.39648	6.51561	0.1123692	0.25608292	2.4559281	21	—	—
150819 2001 RD_{127}	16.1	X	311.23104	325.91019	66.56326	4.05823	0.1709904	0.24574100	2.5243581	21	9 13.1	18.5
150820 2001 RV_{127}	17.0	X	65.92878	208.17943	66.56547	2.77040	0.1274038	0.29871481	2.2163153	21	10 21.2	19.7
150821 2001 RM_{131}	16.1	X	196.28250	202.00921	142.76861	3.66114	0.1242649	0.22491886	2.6778452	21	2 23.2	20.3
150822 2001 RY_{142}	15.1	X	242.15624	322.08354	64.77883	15.64481	0.1081462	0.23172241	2.6251696	21	6 2.2	19.0
150823 2001 SZ_{2}	15.9	X	172.33097	261.79678	180.06649	9.81692	0.1902614	0.22973988	2.6402504	21	6 3.0	20.4
150824 2001 SL_{3}	16.0	X	41.93135	355.71128	15.57669	7.90868	0.1036308	0.25497205	2.4630562	21	—	—
150825 2001 SR_{8}	16.7	X	86.03087	172.20349	186.54753	1.00553	0.1470055	0.25971835	2.4329562	21	—	—
150826 2001 SZ_{19}	16.7	X	275.27638	3.11951	56.09718	2.46288	0.1461966	0.24294756	2.5436715	21	8 24.2	19.7
150827 2001 SL_{20}	15.7	X	157.18225	279.82124	38.98888	4.39721	0.2367150	0.26646796	2.3916964	21	—	—
150828 2001 SJ_{21}	15.8	X	154.09345	27.39339	56.55406	5.69702	0.2337781	0.22720957	2.6598163	21	5 21.6	20.3
150829 2001 SE_{24}	16.8	X	242.07052	64.29737	353.03171	6.42811	0.2371885	0.23738813	2.5832318	21	6 30.3	21.0
150830 2001 SQ_{25}	16.5	X	194.32908	236.49524	17.40089	3.36177	0.0702649	0.26171371	2.4205742	21	—	—
150831 2001 SP_{28}	16.4	X	202.61598	284.72827	158.65593	4.60424	0.2170001	0.23452064	2.6042460	21	6 29.1	20.8
150832 2001 SM_{30}	17.0	X	306.91683	231.16398	128.70577	1.31100	0.2072232	0.24114070	2.5563621	21	7 7.9	19.6
150833 2001 SE_{32}	16.1	X	198.51420	72.09638	34.40158	4.53489	0.1805949	0.23685425	2.5871122	21	7 27.7	20.3
150834 2001 SZ_{32}	16.5	X	100.03309	308.45856	22.74964	1.61944	0.1993150	0.25954894	2.4340148	21	—	—
150835 2001 SE_{34}	16.0	X	191.87753	79.69975	13.30238	14.76016	0.0634211	0.23608831	2.5927047	21	7 8.2	20.0
150836 2001 SM_{34}	17.1	X	155.41299	307.24993	23.80955	3.41471	0.1892006	0.26690064	2.3891108	21	—	—
150837 2001 SE_{40}	16.0	X	324.95367	313.61896	95.22452	4.53246	0.1116707	0.24802255	2.5088533	21	11 7.6	18.6
150838 2001 SW_{45}	16.8	X	301.08302	271.01473	98.32668	3.74964	0.2334979	0.24131127	2.5551573	21	7 7.3	19.5
150839 2001 SD_{47}	16.3	X	262.96684	328.52999	28.66304	7.75863	0.1341696	0.28457979	2.2891101	21	5 11.1	19.4
150840 2001 SF_{47}	16.7	X	256.42502	185.82608	123.05762	3.75435	0.1893292	0.27890387	2.3200625	21	2 27.2	20.2
150841 2001 SH_{52}	16.2	X	309.73973	258.78804	132.92696	5.59784	0.0919500	0.24371423	2.5383342	21	9 17.9	19.0
150842 2001 SO_{55}	16.2	X	133.70721	191.89938	150.03355	5.51257	0.1953941	0.26398210	2.4066877	21	—	—
150843 2001 SB_{58}	15.7	X	192.83374	42.96507	13.86319	9.13266	0.2068762	0.23019052	2.6368035	21	5 16.9	20.2
150844 2001 SN_{66}	15.7	X	152.47206	267.92545	195.10986	12.24475	0.1599966	0.22851631	2.6496667	21	6 9.6	20.1
150845 2001 SE_{68}	15.8	X	145.99793	230.95310	195.55965	11.43125	0.1780352	0.22307352	2.6925929	21	4 20.3	20.0
150846 2001 SH_{69}	16.2	X	271.16815	218.76449	150.42599	5.70205	0.2995489	0.23568099	2.5956911	21	5 21.8	20.3
150847 2001 SL_{69}	15.7	X	223.93471	197.67509	171.17795	5.49767	0.2855098	0.22898334	2.6460626	21	4 14.7	20.5
150848 2001 SE_{74}	15.9	X	257.04678	101.23653	262.16487	6.11004	0.2047790	0.23419387	2.6066679	21	5 8.2	19.9
150849 2001 SZ_{87}	17.2	X	177.05150	31.34978	262.38267	2.48842	0.1552756	0.26798580	2.3826570	21	—	—
150850 2001 SB_{92}	16.3	X	345.36248	116.80374	339.92106	6.38625	0.0851753	0.25992895	2.4316419	21	—	—
150851 2001 SY_{92}	16.5	X	190.96588	249.24000	177.42327	13.12725	0.2400402	0.23234943	2.6204446	21	5 31.5	21.3
150852 2001 SD_{99}	16.7	X	178.74387	165.34826	182.44090	7.13478	0.1383603	0.27266444	2.3553225	21	2 1.9	20.3
150853 2001 SL_{107}	16.0	X	91.95373	20.50045	331.25436	5.43081	0.2495235	0.25822322	2.4423385	21	—	—
150854 2001 SG_{110}	14.6	X	228.08651	76.02306	4.63441	10.77635	0.1754250	0.23514801	2.5996119	21	7 25.2	18.8
150855 2001 SW_{111}	15.3	X	215.26036	117.34223	257.11360	9.21872	0.1841272	0.22701272	2.6613537	21	4 13.6	19.9
150856 2001 SS_{112}	16.0	X	271.86638	39.65749	12.81282	3.39157	0.0928227	0.23870016	2.5737572	21	8 18.3	19.2
150857 2001 SF_{120}	16.3	X	299.16577	58.34995	336.36665	9.26716	0.1455576	0.24432155	2.5341260	21	8 26.3	18.9
150858 2001 SH_{130}	16.8	X	249.72600	111.95530	309.51701	1.22820	0.1029713	0.24066410	2.5597360	21	7 29.2	20.2
150859 2001 SK_{130}	16.5	X	115.40380	77.16732	206.64998	1.48139	0.1583950	0.25691079	2.4506492	21	12 19.9	20.4
150860 2001 SW_{137}	16.3	X	226.31142	244.58349	3.56886	4.90111	0.0073078	0.26433025	2.4045739	21	—	—
150861 2001 SP_{140}	16.2	X	51.90481	287.16131	194.37202	7.58672	0.0683212	0.27090320	2.3655200	21	1 31.3	18.9
150862 2001 SW_{140}	16.4	X	269.24722	196.42611	198.09753	2.48849	0.1134801	0.23929446	2.5694941	21	7 15.5	19.7
150863 2001 SY_{140}	16.7	X	22.11480	121.95037	199.41626	2.36156	0.1582461	0.24731601	2.5136293	21	10 18.5	19.3
150864 2001 SY_{147}	16.0	X	5.24901	55.19819	332.61159	8.55786	0.0884965	0.25266675	2.4780153	21	12 13.5	19.0
150865 2001 SZ_{149}	16.3	X	196.06851	344.84413	307.52835	3.81228	0.1702347	0.26724124	2.3870805	21	—	—
150866 2001 SS_{158}	16.0	X	200.41158	88.97889	354.64968	6.95667	0.1693498	0.23486764	2.6016803	21	6 29.9	20.3
150867 2001 SS_{163}	16.1	X	30.86937	80.98752	225.22858	3.98932	0.0533437	0.24418699	2.5350568	21	9 23.7	19.1
150868 2001 SK_{176}	16.1	X	182.04258	305.76274	150.11619	4.75856	0.2113652	0.23209687	2.6223452	21	6 27.8	20.5
150869 2001 SH_{192}	15.9	X	315.65823	178.74849	353.02122	6.18735	0.0757812	0.26742362	2.3859951	21	—	—
150870 2001 SP_{193}	17.4	X	267.61745	103.21340	170.63802	2.52885	0.1813609	0.27755757	2.3275588	21	1 24.2	21.1
150871 2001 SM_{200}	16.5	X	255.43220	290.51325	166.40085	3.71726	0.1639071	0.24527837	2.5275313	21	9 14.2	19.6
150872 2001 ST_{201}	13.2	X	242.00377	348.36116	5.59421	5.14262	0.0954930	0.08332752	5.1913114	21	5 1.4	20.4
150873 2001 SX_{206}	16.7	X	12.74382	149.87726	14.41975	2.21879	0.1409740	0.27268491	2.3552046	21	1 23.4	18.9
150874 2001 SG_{209}	16.1	X	281.59653	353.60477	161.51106	6.83686	0.0683526	0.25901550	2.4373555	21	—	—
150875 2001 SD_{213}	16.7	X	15.07152	258.93718	61.15824	1.95825	0.0976613	0.24617838	2.5213672	21	9 26.9	19.4
150876 2001 SA_{220}	13.4	X	267.35790	312.61196	28.87314	4.13732	0.0767534	0.08426193	5.1528614	21	5 16.5	20.2
150877 2001 SK_{226}	15.6	X	81.03031	144.66848	122.97830	2.74085	0.0962081	0.19776795	2.9176428	21	10 13.6	19.7
150878 2001 SE_{227}	15.9	X	240.89458	172.73395	28.21115	6.79961	0.0745833	0.25906680	2.4370338	21	—	—
150879 2001 SQ_{233}	16.3	X	214.74906	359.59103	68.60579	3.81240	0.2015982	0.23454041	2.6040996	21	6 21.2	20.6
150880 2001 SR_{234}	15.8	X	101.35330	109.74550	22.80453	12.35239	0.1286440	0.22713419	2.6604047	21	5 15.6	19.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
150881 2001 SB_{237}	16.5	X	194.84358	134.53171	154.91162	5.24735	0.2059753	0.26730998	2.3866712	21	—	—
150882 2001 SY_{238}	16.7	X	219.92504	217.95306	105.57849	3.00737	0.2368002	0.27489255	2.3425781	21	2 13.6	20.8
150883 2001 SE_{242}	16.0	X	225.17254	37.84518	17.55791	13.68288	0.1749542	0.23437262	2.6053423	21	6 14.7	20.4
150884 2001 SY_{242}	17.1	X	193.26901	172.11492	138.27138	3.19676	0.1977053	0.26955681	2.3733904	21	1 6.2	20.7
150885 2001 SF_{244}	16.4	X	239.90456	234.47927	135.99532	5.87586	0.1906999	0.23172848	2.6251237	21	5 5.4	20.7
150886 2001 SK_{248}	16.3	X	205.77105	215.23052	166.79677	2.91712	0.1040899	0.22809762	2.6529082	21	4 19.7	20.3
150887 2001 SY_{248}	16.4	X	146.19430	204.40311	70.06656	1.42882	0.0580505	0.25545904	2.4599250	21	—	—
150888 2001 SD_{254}	16.7	X	131.30097	282.19418	37.63465	1.54655	0.1885778	0.26117015	2.4239316	21	—	—
150889 2001 ST_{257}	16.3	X	158.51325	165.31922	162.36742	5.95884	0.1330170	0.27041067	2.3683916	21	—	—
150890 2001 SN_{267}	15.8	X	181.10333	214.55434	147.45736	3.46574	0.1993990	0.22160070	2.7045103	21	3 5.3	20.4
150891 2001 SQ_{272}	16.5	X	272.21304	62.74666	16.99722	2.83216	0.1402031	0.24377797	2.5378916	21	9 17.9	19.5
150892 2001 SA_{278}	15.8	X	244.31224	47.37634	340.27244	9.97794	0.1722723	0.23346722	2.6120738	21	5 28.5	20.0
150893 2001 SK_{278}	16.1	X	351.20549	21.45725	291.29988	3.47625	0.2940308	0.24198101	2.5504405	21	7 30.9	17.3
150894 2001 SV_{278}	15.0	X	106.81742	232.43858	220.61594	12.89882	0.1702983	0.22071871	2.7117102	21	4 8.4	18.8
150895 2001 SU_{282}	14.6	X	337.55703	345.12400	15.62137	13.76712	0.1756020	0.24033226	2.5620917	21	9 21.1	16.9
150896 2001 SC_{290}	16.1	X	228.13577	163.96253	295.38572	12.68921	0.1283261	0.24156473	2.5533697	21	8 16.3	19.9
150897 2001 SU_{292}	16.7	X	118.12807	50.55909	233.51793	1.48614	0.1164383	0.25604498	2.4561707	21	12 21.2	20.5
150898 2001 SW_{304}	16.3	X	209.79831	276.93894	225.27455	3.54062	0.2077612	0.24379988	2.5377396	21	9 17.1	20.4
150899 2001 SJ_{307}	17.0	X	299.33992	238.56663	22.47234	2.98998	0.1376582	0.27877376	2.3207843	21	2 16.5	19.9
150900 2001 SL_{315}	15.2	X	238.97144	82.88596	343.07553	14.72043	0.1086376	0.23581198	2.5947298	21	7 25.7	19.1
150901 2001 SB_{318}	16.9	X	135.24317	219.78634	78.19196	2.80492	0.1641663	0.25894333	2.4378084	21	—	—
150902 2001 SW_{323}	16.4	X	332.24959	60.42617	274.48134	9.09230	0.1860995	0.24118354	2.5560594	21	7 22.3	18.8
150903 2001 SN_{341}	16.9	X	237.46350	161.08259	290.28986	2.32525	0.1770191	0.24040490	2.5615755	21	8 13.9	20.8
150904 2001 SX_{347}	15.9	X	251.38515	148.48667	274.60901	10.36790	0.2217740	0.23992563	2.5649858	21	7 16.8	19.7
150905 2001 SG_{353}	16.3	X	185.99298	180.01374	26.09358	6.99692	0.0835318	0.25276646	2.4773636	21	11 23.2	19.8
150906 2001 TF	15.0	X	290.82987	286.81602	105.23930	23.20623	0.2693831	0.24056452	2.5604423	21	7 17.4	18.0
150907 2001 TA_{3}	16.3	X	310.26761	107.07327	166.43068	1.66475	0.0364794	0.22961005	2.6412456	21	4 10.5	19.7
150908 2001 TV_{4}	16.3	X	208.97454	170.40218	7.63468	7.80560	0.0611010	0.25140661	2.4862889	21	11 15.2	19.7
150909 2001 TZ_{11}	15.9	X	78.94986	358.88427	56.92192	3.81058	0.0833347	0.21452305	2.7636735	21	1 2.7	19.3
150910 2001 TV_{24}	15.2	X	51.74363	226.84504	4.33815	13.91342	0.1053184	0.23682790	2.5873041	21	7 25.1	18.6
150911 2001 TO_{26}	16.6	X	349.15172	323.25796	355.18092	4.96582	0.2964846	0.24294914	2.5436605	21	8 6.3	17.7
150912 2001 TT_{28}	15.9	X	117.06323	351.98595	337.81134	5.25816	0.0345406	0.25772367	2.4454935	21	—	—
150913 2001 TV_{31}	15.4	X	288.40201	325.87399	21.50376	13.19005	0.2087525	0.23480025	2.6021781	21	5 19.4	19.1
150914 2001 TR_{38}	15.5	X	14.67821	27.92384	276.65911	8.17001	0.1126511	0.23944714	2.5684017	21	8 29.8	18.5
150915 2001 TN_{39}	14.9	X	201.29468	16.74461	32.02868	9.74239	0.1229409	0.22711826	2.6605291	21	5 16.3	19.0
150916 2001 TP_{43}	15.0	X	104.17621	4.38156	45.10960	11.42142	0.1659542	0.21051910	2.7986057	21	2 16.7	19.0
150917 2001 TD_{44}	14.9	X	286.10508	300.03401	41.57119	14.45822	0.1807099	0.23003694	2.6379769	21	5 15.0	18.6
150918 2001 TO_{54}	16.2	X	233.65869	257.36327	208.91742	9.91162	0.1487712	0.24311427	2.5425085	21	8 29.8	20.1
150919 2001 TT_{54}	16.3	X	235.61716	219.12050	205.51786	12.84146	0.1608496	0.23806040	2.5783663	21	7 7.8	20.5
150920 2001 TQ_{57}	16.1	X	255.71378	217.00529	231.39964	2.41211	0.1219000	0.24278283	2.5448219	21	9 7.8	19.5
150921 2001 TC_{58}	16.3	X	241.48045	202.96441	208.53147	5.44050	0.1057924	0.23675438	2.5878397	21	7 4.4	20.1
150922 2001 TK_{61}	15.8	X	307.31890	359.41168	37.38986	13.22227	0.0899877	0.24348229	2.5399459	21	9 25.7	18.8
150923 2001 TL_{61}	16.6	X	330.86817	163.99138	188.68820	4.00985	0.2113453	0.24275088	2.5450453	21	8 14.9	18.6
150924 2001 TP_{62}	15.7	X	281.24842	6.27737	32.31784	4.61065	0.1767193	0.23966590	2.5668385	21	7 30.0	18.9
150925 2001 TT_{62}	15.2	X	187.00001	31.27838	55.96154	9.99385	0.1619685	0.23141514	2.6274928	21	6 20.9	19.5
150926 2001 TW_{62}	16.0	X	271.10115	340.83423	47.41161	3.75214	0.1422820	0.23739462	2.5831847	21	7 5.8	19.4
150927 2001 TL_{67}	15.6	X	93.78448	321.17882	31.45785	5.52377	0.1240189	0.25814741	2.4428167	21	—	—
150928 2001 TP_{68}	15.4	X	92.64916	288.53635	201.88051	16.37710	0.1684196	0.22622482	2.6675294	21	5 12.1	19.0
150929 2001 TE_{69}	16.3	X	222.06386	279.86449	14.79821	2.32950	0.1288098	0.27060732	2.3672440	21	1 11.3	19.9
150930 2001 TE_{71}	15.6	X	132.42184	284.05369	213.02289	12.10986	0.1173532	0.23135040	2.6279829	21	6 27.8	19.7
150931 2001 TN_{72}	16.0	X	191.38434	345.77823	48.47804	6.88066	0.1336649	0.22697947	2.6616135	21	4 21.0	20.2
150932 2001 TO_{72}	15.4	X	232.06193	40.57778	48.58291	9.23057	0.0913465	0.18798743	3.0179834	21	8 17.0	20.0
150933 2001 TU_{74}	16.8	X	298.72934	295.31606	75.28695	3.60242	0.1925759	0.23918662	2.5702663	21	7 12.7	19.8
150934 2001 TL_{78}	16.3	X	254.50168	325.37377	53.67867	4.31929	0.2302603	0.23372394	2.6101607	21	5 24.0	20.5
150935 2001 TT_{78}	15.4	X	204.47527	254.05798	188.92483	2.52583	0.1110235	0.23269319	2.6178631	21	7 4.5	19.5
150936 2001 TC_{81}	16.3	X	151.29953	79.28208	269.38223	4.41745	0.0561626	0.21815744	2.7328934	21	1 6.9	20.0
150937 2001 TJ_{83}	16.3	X	282.74483	300.63972	318.81043	4.53840	0.1138371	0.27450499	2.3447824	21	1 28.9	19.4
150938 2001 TK_{92}	16.3	X	98.84380	121.90668	267.05571	2.53937	0.1035781	0.21433802	2.7652638	21	—	—
150939 2001 TX_{97}	16.4	X	6.89946	76.42882	264.76879	2.56189	0.1913230	0.24610234	2.5218866	21	10 22.9	18.9
150940 2001 TL_{100}	15.6	X	249.00634	286.27687	328.74462	5.89333	0.0978743	0.26640715	2.3920603	21	—	—
150941 2001 TN_{100}	16.6	X	207.13347	139.88980	256.63761	2.75868	0.2194441	0.22943386	2.6425976	21	5 5.4	21.2
150942 2001 TU_{102}	15.1	X	275.20383	49.44187	340.47133	13.22461	0.1087008	0.23737029	2.5833612	21	7 22.4	18.6
150943 2001 TZ_{104}	15.9	X	323.32980	323.79821	31.33885	1.91764	0.0955586	0.23984257	2.5655779	21	8 16.9	18.6
150944 2001 TB_{106}	14.5	X	322.41889	279.17055	50.11778	14.90181	0.1420665	0.23447730	2.6045668	21	6 30.6	17.6
150945 2001 TS_{106}	15.7	X	258.66655	6.97068	25.65687	2.34990	0.2620355	0.23387699	2.6090219	21	6 11.2	19.8
150946 2001 TK_{110}	16.0	X	263.31714	29.65261	336.99352	6.95248	0.1007716	0.23362262	2.6109153	21	5 31.8	19.8
150947 2001 TP_{112}	15.7	X	302.76779	71.07837	293.75682	4.06295	0.1555183	0.23850738	2.5751439	21	7 16.9	18.4
150948 2001 TR_{117}	14.6	X	328.33771	285.02278	63.50802	15.04581	0.1834092	0.23550595	2.5969772	21	8 13.1	17.4
150949 2001 TS_{118}	16.0	X	213.79447	96.28415	306.46677	12.69843	0.1737885	0.23155985	2.6263980	21	5 17.7	20.5
150950 2001 TK_{121}	15.7	X	257.47109	75.96995	340.92904	11.85726	0.1549423	0.23795877	2.5791004	21	7 28.6	19.4
150951 2001 TP_{121}	16.2	X	117.27263	171.53401	278.21874	8.67165	0.2439413	0.22127181	2.7071895	21	4 23.8	20.5
150952 2001 TU_{124}	15.4	X	24.94964	151.49081	319.12491	7.34603	0.1782062	0.21258698	2.7804277	21	—	—
150953 2001 TM_{125}	15.8	X	291.88287	49.38388	325.65860	9.20413	0.1081152	0.23918420	2.5702837	21	7 23.8	19.0
150954 2001 TH_{126}	16.9	X	235.84552	267.86963	200.01391	3.53517	0.0926772	0.24401063	2.5362782	21	9 13.3	20.2
150955 2001 TT_{131}	15.9	X	182.61388	268.41806	160.59164	22.88660	0.2232382	0.23144915	2.6272354	21	5 30.1	20.9
150956 2001 TZ_{132}	16.1	X	167.32066	106.28991	343.44404	10.58131	0.1176641	0.23150053	2.6268467	21	6 2.9	20.4
150957 2001 TS_{140}	15.9	X	92.63043	291.92353	78.82266	5.19699	0.1138779	0.21334986	2.7737957	21	—	—
150958 2001 TR_{142}	16.1	X	202.71685	151.14419	39.28539	10.13211	0.0911982	0.25217787	2.4812169	21	11 21.3	19.7
150959 2001 TL_{143}	16.5	X	183.49378	331.96371	63.52503	4.93833	0.1309064	0.22738054	2.6584828	21	4 15.3	20.7
150960 2001 TA_{150}	15.9	X	34.96151	344.60681	87.50544	5.29329	0.0844438	0.21004856	2.8027836	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
150961 2001 TL_{158}	16.5	X	328.26083	151.49793	191.76752	3.17466	0.1180906	0.24299420	2.5433460	21	8 4.1	19.1
150962 2001 TA_{161}	16.8	X	211.26906	231.93891	214.57805	3.17879	0.1863100	0.23674815	2.5878851	21	7 11.7	21.0
150963 2001 TG_{162}	16.3	X	196.33429	126.95183	0.91335	10.09128	0.2187392	0.23879470	2.5730779	21	8 22.0	20.7
150964 2001 TX_{162}	16.3	X	173.61259	155.75684	359.84808	4.83104	0.0726032	0.24213846	2.5493348	21	9 6.8	19.9
150965 2001 TY_{164}	15.9	X	190.14084	65.16641	61.76375	11.56463	0.0629999	0.24018156	2.5631633	21	8 24.1	19.8
150966 2001 TL_{167}	15.7	X	310.89504	354.02811	351.78156	9.81441	0.2171699	0.23821302	2.5772649	21	6 22.6	18.8
150967 2001 TG_{169}	15.4	X	296.60798	352.95695	340.83017	8.27640	0.0922168	0.23195988	2.6233776	21	6 1.8	18.9
150968 2001 TQ_{169}	15.5	X	234.47173	34.11762	7.91033	14.51815	0.1020246	0.23224571	2.6212247	21	6 12.9	19.7
150969 2001 TQ_{172}	16.6	X	261.62501	357.40003	78.95639	0.57329	0.0509076	0.24334091	2.5409296	21	9 12.0	19.9
150970 2001 TG_{179}	16.2	X	83.65547	201.31061	247.27921	5.20248	0.0221798	0.21986644	2.7187134	21	2 9.3	19.9
150971 2001 TJ_{191}	16.0	X	192.04411	37.06898	8.61610	3.69842	0.1028852	0.22707235	2.6608877	21	5 3.8	20.1
150972 2001 TH_{195}	16.4	X	188.59594	271.02259	148.83568	11.85593	0.1810209	0.22952678	2.6418844	21	5 22.6	21.0
150973 2001 TO_{195}	15.9	X	241.77101	359.19540	96.85766	11.85844	0.0860259	0.24137889	2.5546801	21	9 12.3	19.6
150974 2001 TP_{196}	15.7	X	227.90088	319.40683	96.88870	15.56586	0.2137724	0.23404076	2.6078046	21	6 17.8	19.9
150975 2001 TV_{196}	15.8	X	307.69718	237.26081	120.14502	14.02853	0.2019276	0.24089960	2.5580675	21	7 6.6	18.5
150976 2001 TN_{210}	16.2	X	170.03176	13.11254	291.37290	5.91188	0.1193829	0.26556163	2.3971350	21	—	—
150977 2001 TY_{212}	15.9	X	243.19452	64.15621	6.52888	15.02999	0.0382088	0.23857610	2.5746494	21	8 18.2	19.5
150978 2001 TN_{214}	16.3	X	133.80772	109.38210	338.12958	11.17389	0.1649234	0.22461522	2.6802580	21	4 27.3	20.5
150979 2001 TR_{214}	16.0	X	306.31972	67.84249	327.78859	8.55029	0.0585299	0.24306853	2.5428275	21	9 16.7	19.1
150980 2001 TC_{216}	15.4	X	137.71134	138.00731	348.39743	12.10407	0.1254459	0.22949833	2.6421027	21	6 22.1	19.6
150981 2001 TX_{220}	15.8	X	149.44964	144.01897	341.54699	7.83147	0.0654026	0.23359913	2.6110903	21	6 30.0	19.6
150982 2001 TV_{225}	16.2	X	172.24653	273.90346	141.65734	13.26529	0.2651599	0.22555162	2.6728346	21	5 7.2	21.2
150983 2001 TM_{229}	16.0	X	345.59833	355.82404	324.95618	13.11083	0.1636108	0.24026481	2.5625712	21	8 4.6	18.2
150984 2001 TP_{233}	15.5	X	297.62626	356.70011	270.02895	13.21018	0.0570354	0.22680938	2.6629441	21	3 5.0	19.5
150985 2001 TB_{235}	15.6	X	227.43868	219.62470	263.70681	5.41854	0.1904978	0.24313275	2.5423797	21	9 10.1	19.6
150986 2001 TL_{239}	16.0	X	295.78919	297.89604	71.41594	9.56395	0.0359874	0.23926417	2.5697109	21	8 2.7	19.4
150987 2001 TT_{240}	15.9	X	115.91685	257.07504	251.14070	11.76995	0.1390140	0.22838878	2.6506530	21	6 26.8	19.8
150988 2001 TU_{241}	15.4	X	326.95616	203.13549	94.46854	16.07164	0.0423157	0.23048120	2.6345860	21	6 6.9	18.7
150989 2001 UL_{4}	16.2	X	198.83529	199.45075	188.21704	2.05918	0.2181175	0.22647251	2.6655841	21	4 18.9	20.7
150990 2001 UC_{8}	15.8	X	196.83670	114.91290	213.26640	2.67632	0.0920614	0.22063424	2.7124023	21	2 2.2	20.0
150991 2001 UF_{8}	16.0	X	143.28122	295.53513	180.17716	5.02491	0.1357158	0.22987447	2.6392197	21	6 14.8	20.1
150992 2001 UD_{13}	15.6	X	349.01450	187.06694	186.45029	3.11521	0.0750588	0.24433983	2.5339996	21	10 27.1	18.4
150993 2001 UK_{15}	16.6	X	219.94385	118.02656	352.09097	2.80535	0.1811377	0.23830685	2.5765883	21	8 20.8	20.6
150994 2001 UL_{23}	15.4	X	227.54699	68.91127	357.47567	14.83996	0.1221615	0.23551846	2.5968852	21	7 10.6	19.6
150995 2001 UX_{23}	15.7	X	253.02110	92.76504	337.39989	9.57695	0.1129805	0.23926746	2.5696874	21	8 14.4	19.1
150996 2001 UR_{28}	16.5	X	239.76681	268.14033	141.98642	3.18760	0.1942841	0.23562724	2.5960859	21	6 22.2	20.6
150997 2001 UF_{32}	16.4	X	214.88796	256.43254	161.72539	9.45160	0.1444472	0.23357197	2.6112928	21	6 12.5	20.7
150998 2001 UC_{34}	15.8	X	139.88300	289.69992	153.08055	8.70877	0.1966612	0.22404355	2.6848153	21	5 8.1	20.2
150999 2001 UT_{35}	15.8	X	183.30393	11.39650	78.06126	14.28090	0.1735031	0.23038433	2.6353244	21	6 20.5	20.1
151000 2001 UB_{37}	15.8	X	160.41429	289.11112	160.55330	9.68413	0.1451506	0.22718837	2.6599817	21	5 31.8	20.1
151001 2001 UQ_{39}	16.1	X	222.88833	150.12090	139.74676	2.57040	0.0536997	0.21816463	2.7328334	21	1 14.9	20.2
151002 2001 UF_{57}	16.9	X	285.24931	31.85322	12.14506	5.48655	0.2410238	0.24096952	2.5575726	21	8 2.2	20.1
151003 2001 UZ_{58}	15.9	X	150.99319	317.21493	211.72095	8.12694	0.1020474	0.23918074	2.5703085	21	8 26.4	19.9
151004 2001 UA_{59}	17.2	X	136.64738	323.87545	1.82400	1.97999	0.1965398	0.26292268	2.4131483	21	—	—
151005 2001 UL_{68}	16.1	X	222.52750	208.58734	198.28555	3.86504	0.0455306	0.23181978	2.6244344	21	6 12.3	19.8
151006 2001 UB_{72}	15.5	X	252.70020	11.75557	78.53725	15.57388	0.1316831	0.24175953	2.5519979	21	9 15.2	19.3
151007 2001 UJ_{73}	16.3	X	278.56467	210.24220	148.85046	4.03732	0.2637200	0.23642626	2.5902335	21	5 20.2	20.1
151008 2001 UR_{80}	16.0	X	241.99484	32.77961	42.47252	15.09184	0.0805322	0.23796132	2.5790819	21	8 17.9	19.9
151009 2001 UD_{81}	16.2	X	148.26918	293.98848	204.71834	3.52428	0.1404440	0.23214349	2.6219941	21	7 18.9	20.3
151010 2001 UT_{81}	15.7	X	151.65582	48.92617	45.59391	15.26118	0.0486629	0.22825063	2.6517224	21	5 18.5	19.4
151011 2001 UK_{83}	16.3	X	252.77646	227.16146	152.68009	1.61287	0.1514692	0.23280605	2.6170169	21	6 1.1	20.2
151012 2001 US_{92}	15.7	X	144.65927	24.23212	77.70900	6.26367	0.0902175	0.22724621	2.6595303	21	5 25.8	19.7
151013 2001 UE_{101}	16.3	X	176.02468	134.84431	20.09671	4.81594	0.0704564	0.24235496	2.5478163	21	9 9.5	19.9
151014 2001 UB_{113}	15.9	X	305.17220	56.58658	315.04974	3.24000	0.2147582	0.23916784	2.5704008	21	7 21.4	18.6
151015 2001 UC_{113}	15.9	X	253.80401	359.23680	25.28930	4.12683	0.2070154	0.23323388	2.6138157	21	6 1.3	20.0
151016 2001 UO_{113}	16.2	X	83.93555	282.22685	209.60793	7.50479	0.2519504	0.22172264	2.7035185	21	5 15.0	19.8
151017 2001 UC_{114}	15.8	X	158.96131	106.61840	42.87274	12.79681	0.1320808	0.23543241	2.5975179	21	8 19.4	20.1
151018 2001 UV_{116}	16.1	X	176.09943	290.44705	168.60084	3.43747	0.1784414	0.23011778	2.6373591	21	6 26.5	20.4
151019 2001 UF_{119}	15.6	X	92.45487	105.07302	206.60362	4.79547	0.1088050	0.25154687	2.4853646	21	12 27.7	19.3
151020 2001 UU_{120}	16.0	X	292.06673	262.19716	58.04353	4.20299	0.0686385	0.23038007	2.6353569	21	5 13.3	19.5
151021 2001 UU_{123}	15.7	X	213.41393	307.16508	136.87104	12.49169	0.1600567	0.23549181	2.5970811	21	7 12.3	19.9
151022 2001 UH_{126}	16.1	X	212.61911	244.24363	146.65374	11.10443	0.1090513	0.22889169	2.6467689	21	5 10.7	20.3
151023 2001 UT_{126}	15.9	X	175.80711	320.83749	171.58718	4.74181	0.1759332	0.23459317	2.6037092	21	8 6.7	20.1
151024 2001 UV_{126}	16.0	X	176.99439	229.42706	74.81683	7.33824	0.1424653	0.26420706	2.4053213	21	—	—
151025 2001 UD_{144}	16.0	X	119.90476	265.75612	78.21346	4.16493	0.1037765	0.21009836	2.8023407	21	—	—
151026 2001 UD_{145}	15.9	X	338.70919	300.27966	62.93423	2.12904	0.1632783	0.19290422	2.9664809	21	9 17.3	19.0
151027 2001 UA_{146}	16.2	X	178.35625	14.94748	62.39230	5.25426	0.0740097	0.22901204	2.6458416	21	5 30.2	20.0
151028 2001 UM_{146}	16.3	X	352.62074	198.77708	208.32107	1.61218	0.1549288	0.19920119	2.9036310	21	12 12.9	19.4
151029 2001 UT_{154}	15.4	X	147.68869	170.23423	223.92053	10.21466	0.1199981	0.21823672	2.7322316	21	3 3.2	19.7
151030 2001 UC_{156}	16.6	X	324.27209	202.07440	147.84870	1.47578	0.1607825	0.23931951	2.5693147	21	8 2.6	19.2
151031 2001 UG_{167}	15.9	X	71.86853	100.68839	1.92109	13.39373	0.2582769	0.21466703	2.7624376	21	3 19.7	18.8
151032 2001 UM_{169}	15.0	X	248.37610	332.02776	26.13971	13.39639	0.3029134	0.22952038	2.6419335	21	4 17.4	19.4
151033 2001 UJ_{170}	15.9	X	212.70360	235.67222	250.23768	2.35870	0.1569387	0.23902554	2.5714210	21	9 3.0	19.7
151034 2001 UX_{173}	16.3	X	154.06543	161.95188	61.43173	4.08893	0.0424650	0.24705103	2.5154264	21	11 11.8	19.9
151035 2001 UQ_{179}	16.0	X	194.95871	287.16478	159.61515	13.12477	0.2335929	0.23221309	2.6214701	21	6 26.9	20.7
151036 2001 UE_{182}	15.6	X	268.99401	65.26213	95.06635	6.33628	0.0933149	0.25763411	2.4460602	21	—	—
151037 2001 UZ_{182}	16.3	X	211.58044	275.13473	127.92190	6.24248	0.1696129	0.23166458	2.6256064	21	5 20.8	20.6
151038 2001 UL_{191}	17.0	X	222.17967	300.07555	328.78125	1.51887	0.1731656	0.26841321	2.3801270	21	—	—
151039 2001 UW_{198}	16.6	X	192.74605	54.24778	354.77118	2.84162	0.1036750	0.22998819	2.6383497	21	5 8.6	20.5
151040 2001 UT_{201}	16.4	X	320.09254	206.21796	11.95063	6.30713	0.1185696	0.27114603	2.3641075	21	1 21.7	19.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
151041 2001 UX_{201}	16.5	X	221.43517	234.28871	270.04372	2.74346	0.1251514	0.24513815	2.5284950	21	10 9.7	20.2
151042 2001 UR_{205}	16.3	X	34.09142	334.70569	311.69631	2.12090	0.1110711	0.24048846	2.5609822	21	9 9.3	19.3
151043 2001 UU_{205}	15.4	X	88.94595	185.97088	31.59483	12.24226	0.0976933	0.23651254	2.5896035	21	8 28.2	19.1
151044 2001 UX_{205}	15.4	X	76.99581	343.15819	233.06857	10.16100	0.0906671	0.23450606	2.6043539	21	7 29.9	19.0
151045 2001 UL_{216}	15.6	X	146.33200	316.17120	186.07648	5.16767	0.2438004	0.18075766	3.0979298	21	7 25.3	20.9
151046 2001 UX_{219}	16.0	X	63.22548	11.63086	240.71330	1.09635	0.1549152	0.23940031	2.5687366	21	9 12.4	19.4
151047 2001 UB_{220}	15.2	X	303.44623	340.36462	25.74702	24.83964	0.0409049	0.23757057	2.5819091	21	8 21.5	19.1
151048 2001 UO_{220}	16.6	X	289.07619	12.96644	344.19203	1.62220	0.0908326	0.23511520	2.5998537	21	6 25.4	19.7
151049 2001 UK_{221}	16.8	X	157.97429	225.99718	220.52429	1.50430	0.1797947	0.22603220	2.6690446	21	5 25.7	21.2
151050 2001 UW_{222}	15.8	X	40.12483	320.64333	244.17536	7.04088	0.1506672	0.22437679	2.6821564	21	5 28.8	18.5
151051 2001 UC_{225}	15.8	X	272.54749	77.73851	349.09937	11.37020	0.1038836	0.23918131	2.5703044	21	9 6.0	18.9
151052 2001 VN_{1}	16.8	X	203.89176	143.46542	284.66099	1.89738	0.2155331	0.23083684	2.6318793	21	6 11.3	21.3
151053 2001 VS_{6}	15.6	X	55.84073	67.73816	232.28433	2.78439	0.0806186	0.24506746	2.5289813	21	10 25.9	18.7
151054 2001 VW_{6}	16.2	X	238.37748	108.74469	338.86548	0.85796	0.1633545	0.23758125	2.5818318	21	8 12.1	20.1
151055 2001 VV_{11}	15.2	X	324.76676	62.21216	306.63868	7.40830	0.1232500	0.24059880	2.5601991	21	9 2.7	18.1
151056 2001 VO_{13}	15.3	X	261.51029	190.13973	260.94512	12.72058	0.1277589	0.19036774	2.9927733	21	9 7.6	19.8
151057 2001 VO_{14}	15.8	X	146.41242	49.10181	22.52425	9.84396	0.1016067	0.22257882	2.6965811	21	4 18.8	19.7
151058 2001 VP_{14}	15.5	X	256.84712	117.62564	290.86125	5.50099	0.0799697	0.23512024	2.5998165	21	7 23.5	19.1
151059 2001 VF_{18}	16.5	X	310.57713	340.20169	31.27227	1.91469	0.0968635	0.23957132	2.5675140	21	8 18.8	19.3
151060 2001 VA_{19}	15.5	X	145.71348	173.70745	232.94255	8.10667	0.1464640	0.22092241	2.7100432	21	3 19.7	19.7
151061 2001 VQ_{19}	15.3	X	184.95186	187.83930	230.19221	8.07044	0.1600700	0.22749890	2.6575606	21	5 13.9	19.6
151062 2001 VP_{28}	15.9	X	322.39253	67.40929	270.99930	1.65255	0.1989623	0.23694911	2.5864217	21	7 6.3	18.2
151063 2001 VH_{29}	15.8	X	338.45977	234.64310	125.35888	0.99739	0.1322866	0.24089674	2.5580877	21	9 19.1	18.3
151064 2001 VP_{29}	15.9	X	105.47827	28.64631	78.40568	7.63020	0.1858702	0.21987760	2.7186214	21	5 1.3	19.7
151065 2001 VV_{29}	15.7	X	230.31933	308.88266	49.54354	3.36839	0.2293902	0.22698807	2.6615463	21	4 9.0	20.1
151066 2001 VP_{31}	15.2	X	262.71045	243.61739	152.18197	0.67482	0.2016181	0.18425740	3.0585770	21	6 27.3	19.7
151067 2001 VP_{35}	15.2	X	121.29563	161.24646	228.97159	8.70351	0.1731823	0.21383888	2.7695652	21	2 5.1	19.2
151068 2001 VJ_{36}	16.3	X	303.19312	65.39538	324.78296	1.40017	0.0915724	0.23813953	2.5777950	21	9 2.1	19.4
151069 2001 VL_{37}	15.5	X	283.34967	278.30947	88.39356	4.99947	0.2315566	0.23486644	2.6016891	21	6 8.5	18.9
151070 2001 VU_{49}	15.8	X	203.65327	81.70466	1.26364	12.91897	0.1436873	0.23348571	2.6119359	21	7 4.3	20.2
151071 2001 VY_{49}	16.0	X	293.69891	33.93598	342.45591	8.55467	0.1768928	0.23901225	2.5715163	21	7 17.6	19.1
151072 2001 VE_{50}	15.8	X	159.60673	93.05008	6.84878	11.59091	0.1620536	0.22879005	2.6475528	21	6 10.5	20.3
151073 2001 VF_{50}	15.2	X	51.54267	49.38109	298.10278	6.77563	0.0344853	0.25069949	2.4909619	21	12 16.2	18.4
151074 2001 VV_{57}	16.1	X	132.88726	81.83751	31.51965	11.25676	0.2235544	0.22562429	2.6722607	21	6 6.6	20.5
151075 2001 VD_{60}	16.0	X	149.08428	304.58171	356.28981	4.80905	0.1033852	0.25804654	2.4434532	21	—	—
151076 2001 VD_{61}	15.6	X	138.13966	103.13251	29.57617	12.45735	0.1608565	0.22880199	2.6474607	21	7 4.0	20.0
151077 2001 VC_{63}	15.4	X	145.85452	257.18775	255.24861	13.24276	0.0936684	0.23301832	2.6154274	21	7 28.1	19.5
151078 2001 VD_{64}	15.6	X	255.85000	322.61380	30.25004	6.57656	0.0705542	0.22886709	2.6469586	21	5 8.7	19.2
151079 2001 VP_{64}	14.3	X	293.62110	281.94743	36.80260	13.62860	0.1638508	0.18085187	3.0968539	21	5 1.9	18.6
151080 2001 VD_{65}	15.5	X	294.79650	351.56216	37.74288	7.33195	0.1431718	0.23885390	2.5726526	21	8 14.2	18.6
151081 2001 VA_{74}	15.6	X	252.40833	122.82130	306.44361	10.62880	0.1344391	0.23806676	2.5783203	21	8 6.8	19.1
151082 2001 VK_{74}	15.9	X	127.35733	266.73036	158.63474	9.57584	0.1761338	0.21919526	2.7242604	21	4 1.5	20.0
151083 2001 VM_{79}	16.3	X	90.97045	320.72136	138.53878	5.87262	0.2573660	0.21704271	2.7422428	21	4 14.2	20.0
151084 2001 VG_{81}	15.6	X	172.50896	341.57482	105.26614	11.20103	0.0953774	0.22852788	2.6495773	21	6 7.2	19.6
151085 2001 VK_{83}	15.6	X	69.59050	138.90171	256.50684	3.29180	0.0759023	0.20948195	2.8078354	21	—	—
151086 2001 VE_{84}	16.2	X	209.34166	339.45790	107.70929	5.27569	0.0838259	0.23265960	2.6181151	21	7 17.4	19.9
151087 2001 VH_{84}	15.5	X	304.65283	68.90197	279.33213	14.02493	0.1933102	0.24047815	2.5610554	21	6 19.7	18.4
151088 2001 VG_{91}	16.0	X	294.22825	243.58588	123.08971	10.39258	0.2247869	0.23772656	2.5807796	21	6 24.5	19.4
151089 2001 VB_{92}	15.8	X	166.31294	236.03008	137.72963	9.70502	0.1439059	0.21938690	2.7226737	21	3 4.7	20.1
151090 2001 VU_{94}	15.5	X	310.90131	262.14607	110.20585	12.57818	0.3312814	0.24057772	2.5603487	21	7 10.9	18.0
151091 2001 VF_{95}	15.3	X	236.53990	268.31456	120.06505	15.81110	0.1145679	0.22936204	2.6431493	21	6 1.7	19.5
151092 2001 VZ_{97}	15.4	X	50.62011	268.35783	191.23320	12.94275	0.1701476	0.21001463	2.8030855	21	1 19.9	18.6
151093 2001 VE_{99}	15.5	X	190.92131	253.82723	174.00993	12.97596	0.2148046	0.22461392	2.6802683	21	6 2.2	20.3
151094 2001 VX_{100}	16.0	X	187.78533	114.31498	272.24819	4.69874	0.0734748	0.22440223	2.6819536	21	4 3.2	20.1
151095 2001 VA_{103}	16.3	X	299.53595	19.40791	300.29393	2.80761	0.2055191	0.23272402	2.6176319	21	4 29.6	19.7
151096 2001 VS_{103}	16.2	X	299.26277	83.75885	303.66237	2.06297	0.1664772	0.23954513	2.5677012	21	8 11.2	19.1
151097 2001 VN_{108}	15.9	X	331.86878	33.81619	309.27973	3.66763	0.2074707	0.23957063	2.5675190	21	8 3.1	18.1
151098 2001 VH_{109}	16.5	X	156.16398	130.83497	9.68756	2.20270	0.1447865	0.23144730	2.6272494	21	7 30.8	20.6
151099 2001 VX_{113}	15.9	X	301.95883	44.41229	318.33906	2.40766	0.1124184	0.23577628	2.5949917	21	7 19.8	18.9
151100 2001 VP_{116}	16.5	X	198.55355	12.69209	57.11813	4.71505	0.1687252	0.22895229	2.6463019	21	6 9.8	20.8
151101 2001 VN_{119}	16.2	X	243.74207	124.41432	287.69669	2.15777	0.0515199	0.23306483	2.6150794	21	7 15.6	19.5
151102 2001 VB_{124}	15.8	X	301.38999	0.04864	326.07641	4.21880	0.0253278	0.23082453	2.6319728	21	6 9.7	19.2
151103 2001 VV_{132}	15.0	X	286.94732	204.83176	177.09970	10.29913	0.0979688	0.18576779	3.0419759	21	7 22.7	19.3
151104 2001 WH_{6}	15.8	X	112.53109	332.89689	230.48288	8.88194	0.1425678	0.23692615	2.5865887	21	8 31.8	19.9
151105 2001 WM_{9}	15.3	X	241.30990	350.65764	79.88601	15.79521	0.0833057	0.23537838	2.5979154	21	8 5.9	19.2
151106 2001 WR_{12}	15.6	X	73.20006	289.34154	207.79510	10.85166	0.1636622	0.21903429	2.7255949	21	4 21.9	18.8
151107 2001 WW_{14}	16.2	X	73.50171	119.30027	59.29430	7.00762	0.1068932	0.22527460	2.6750253	21	6 8.5	19.5
151108 2001 WK_{16}	16.2	X	170.99127	109.10945	21.73769	12.09699	0.2173539	0.23420076	2.6066167	21	8 6.3	20.8
151109 2001 WB_{23}	15.1	X	179.39922	95.67922	16.49316	28.41487	0.1378514	0.23102348	2.6304616	21	7 27.5	19.9
151110 2001 WZ_{28}	15.3	X	73.54823	326.02173	155.34590	5.28355	0.0660148	0.21839872	2.7308803	21	3 18.8	18.6
151111 2001 WX_{29}	15.4	X	310.86169	278.45401	96.40867	8.46427	0.1719860	0.23876877	2.5732641	21	8 15.5	18.1
151112 2001 WZ_{31}	16.1	X	96.39169	82.75716	80.33407	7.29386	0.0661336	0.22833709	2.6510530	21	6 13.1	19.7
151113 2001 WG_{32}	16.5	X	214.51972	333.92631	133.58077	1.94709	0.0757339	0.23672109	2.5880823	21	8 20.5	20.2
151114 2001 WS_{33}	16.0	X	196.88408	296.63695	110.81394	4.06083	0.1162677	0.22733863	2.6588095	21	5 13.2	20.1
151115 2001 WU_{33}	16.1	X	190.29516	176.58679	102.94794	3.26415	0.1522629	0.25999398	2.4312364	21	—	—
151116 2001 WW_{33}	16.5	X	143.54341	272.02430	160.57072	2.33412	0.0559181	0.22278216	2.6949401	21	4 13.4	20.3
151117 2001 WY_{33}	15.7	X	39.68202	190.00663	110.83241	4.33934	0.1340735	0.24215489	2.5492195	21	10 15.2	18.7
151118 2001 WZ_{47}	15.6	X	175.81390	8.60274	84.01067	15.25114	0.1599290	0.22950473	2.6420536	21	6 17.8	19.8
151119 2001 WD_{51}	15.9	X	348.47627	100.32967	19.02720	4.49240	0.0164058	0.21003843	2.8028737	21	—	—
151120 2001 WT_{52}	15.9	X	104.17329	146.84776	237.35891	4.88493	0.0626573	0.21262257	2.7801174	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
151121 2001 WT_{54}	16.6	X	183.95585	217.45941	265.49369	1.75432	0.1583609	0.23413537	2.6071021	21	8 2.9	20.9
151122 2001 WU_{56}	16.0	X	90.60050	247.15108	35.96284	2.32813	0.0954424	0.24711049	2.5150228	21	11 17.9	19.5
151123 2001 WY_{63}	16.4	X	200.18670	340.64186	10.55836	1.93253	0.0866593	0.22101300	2.7093025	21	3 6.8	20.6
151124 2001 WL_{94}	16.3	X	132.45387	291.73239	198.98619	2.86145	0.0126007	0.23045227	2.6348065	21	6 9.6	19.8
151125 2001 WF_{101}	16.1	X	77.25966	132.35106	53.56107	3.27280	0.1658952	0.22728969	2.6591911	21	7 4.3	19.6
151126 2001 XD_{2}	15.6	X	245.13639	93.62081	314.49839	21.14241	0.1023051	0.23473826	2.6026362	21	7 9.5	19.5
151127 2001 XO_{2}	15.1	X	256.83987	43.95164	6.35144	22.65433	0.0314457	0.23499304	2.6007546	21	8 14.5	19.0
151128 2001 XK_{5}	15.2	X	231.01174	23.16237	72.03599	15.60125	0.0118620	0.23730857	2.5838091	21	9 10.5	19.0
151129 2001 XO_{6}	15.0	X	297.32273	357.78483	344.00160	13.04944	0.1921202	0.23406663	2.6076125	21	5 26.6	18.6
151130 2001 XH_{12}	15.3	X	151.48899	149.56615	15.85412	6.44694	0.2585561	0.23099350	2.6306892	21	8 31.4	20.0
151131 2001 XJ_{14}	16.3	X	110.62797	5.22398	65.30065	10.11353	0.2780726	0.21543661	2.7558551	21	4 5.6	20.5
151132 2001 XP_{18}	15.8	X	181.87095	41.72446	41.55913	5.47772	0.0513558	0.22635273	2.6665244	21	6 10.5	19.6
151133 2001 XA_{21}	15.7	X	54.27194	102.58105	39.51422	6.16375	0.2111520	0.21388983	2.7691254	21	4 5.4	18.6
151134 2001 XT_{23}	15.5	X	45.52753	94.69469	63.66874	10.13835	0.1000055	0.21402319	2.7679750	21	4 3.4	18.9
151135 2001 XH_{33}	15.6	X	64.79143	12.60121	111.59340	10.37864	0.1275557	0.21289193	2.7777719	21	3 22.3	19.1
151136 2001 XZ_{34}	15.2	X	233.71578	152.15978	282.27915	12.68234	0.1336720	0.23553383	2.5967722	21	7 21.9	19.1
151137 2001 XH_{37}	15.6	X	147.10444	179.04020	287.52279	12.47764	0.1957264	0.22658725	2.6646841	21	6 10.9	20.0
151138 2001 XL_{40}	15.3	X	120.10099	359.79849	6.05122	10.24013	0.2503145	0.21059895	2.7978982	21	1 22.2	19.5
151139 2001 XJ_{41}	15.3	X	120.88773	172.23037	320.73429	11.83803	0.2093933	0.22288717	2.6940935	21	6 21.5	19.7
151140 2001 XX_{41}	15.8	X	38.12758	85.98303	45.27288	11.84358	0.2079712	0.21078775	2.7962273	21	2 19.6	18.7
151141 2001 XG_{43}	15.6	X	47.63917	104.12455	15.55388	9.61430	0.0660156	0.21339353	2.7734172	21	2 10.9	19.2
151142 2001 XP_{43}	14.7	X	208.84453	343.48068	59.36190	14.93518	0.1034022	0.17471931	3.1689018	21	5 21.1	19.6
151143 2001 XQ_{47}	14.8	X	179.13624	320.94395	73.25243	14.74710	0.2418153	0.21953016	2.7214890	21	4 18.3	19.7
151144 2001 XG_{48}	15.4	X	246.31356	71.70162	327.27614	10.67786	0.1885744	0.23559549	2.5963191	21	6 14.8	19.6
151145 2001 XT_{49}	16.3	X	192.37489	325.43446	89.34290	1.38715	0.1096105	0.22717410	2.6600931	21	5 16.9	20.2
151146 2001 XH_{53}	16.1	X	115.97175	219.70824	231.15184	2.88799	0.1086377	0.21962348	2.7207180	21	4 9.2	19.8
151147 2001 XZ_{54}	15.5	X	321.67400	282.64519	85.63204	3.57057	0.0743873	0.23776434	2.5805062	21	9 5.0	18.4
151148 2001 XP_{58}	16.1	X	80.83123	198.12631	246.82434	7.22090	0.2004566	0.21322376	2.7748892	21	2 24.9	19.6
151149 2001 XK_{59}	15.2	X	335.11190	136.57144	236.82550	3.17719	0.1263770	0.24008268	2.5638670	21	9 30.7	17.9
151150 2001 XM_{59}	16.3	X	236.28387	240.20268	135.93929	2.93796	0.2576265	0.22890310	2.6466810	21	5 3.9	20.9
151151 2001 XS_{74}	15.6	X	81.73379	244.05519	225.55199	7.43151	0.1163132	0.21737851	2.7394180	21	3 18.5	19.1
151152 2001 XC_{75}	16.0	X	259.75912	38.75640	308.14712	4.81117	0.2108274	0.22840696	2.6505123	21	4 18.6	20.2
151153 2001 XJ_{78}	15.7	X	101.86349	179.07553	82.24228	15.77583	0.1491967	0.24317472	2.5420871	21	11 11.9	19.8
151154 2001 XD_{89}	15.6	X	129.24046	273.85331	252.22730	11.26197	0.0254624	0.23421998	2.6064741	21	7 21.9	19.3
151155 2001 XL_{92}	15.6	X	197.55952	66.17700	66.09333	7.54732	0.0763854	0.23695198	2.5864008	21	9 6.3	19.4
151156 2001 XK_{102}	15.9	X	60.44697	57.05533	49.24100	5.70603	0.1205457	0.21392136	2.7688534	21	2 15.9	19.1
151157 2001 XA_{105}	16.1	X	320.33259	317.93698	262.92261	2.05456	0.0218504	0.21147038	2.7902065	21	2 17.9	19.8
151158 2001 XD_{113}	15.5	X	95.98625	305.93348	104.56884	14.50294	0.1521256	0.21118360	2.7927320	21	1 31.8	19.1
151159 2001 XR_{126}	16.5	X	168.86811	275.68552	109.73589	2.81877	0.0954128	0.22020101	2.7159588	21	3 17.7	20.5
151160 2001 XJ_{130}	16.3	X	263.17363	179.80369	161.41999	1.80537	0.1033264	0.22755477	2.6571256	21	4 29.8	20.0
151161 2001 XL_{130}	16.4	X	211.53707	308.19148	102.69351	2.53016	0.1226849	0.22898037	2.6460856	21	5 31.3	20.4
151162 2001 XJ_{137}	16.2	X	318.39362	254.46953	109.31081	2.76382	0.1196888	0.23737327	2.5833397	21	8 18.1	18.9
151163 2001 XU_{137}	16.2	X	260.05907	297.69154	133.99527	2.39359	0.0547537	0.23695236	2.5863980	21	9 2.5	19.6
151164 2001 XR_{138}	16.0	X	181.02408	260.87750	140.40961	2.97203	0.0786816	0.22251276	2.6971148	21	4 18.5	19.9
151165 2001 XB_{140}	16.2	X	203.94833	160.17166	245.14960	2.18460	0.1042998	0.22629401	2.6669857	21	5 16.6	20.0
151166 2001 XD_{148}	15.7	X	295.88177	337.85165	119.55818	4.30495	0.0739908	0.19470919	2.9481195	21	11 17.6	19.5
151167 2001 XP_{151}	15.6	X	66.87743	131.53677	211.78081	1.23542	0.0576781	0.19783006	2.9170320	21	12 22.2	19.5
151168 2001 XC_{154}	15.9	X	222.54777	325.89351	111.63505	3.03691	0.0619866	0.23160503	2.6260564	21	7 22.1	19.6
151169 2001 XP_{157}	15.6	X	97.10204	64.54875	98.04397	13.71855	0.1107237	0.22418641	2.6836746	21	6 20.6	19.3
151170 2001 XR_{164}	15.9	X	106.99338	15.09144	82.14750	3.29774	0.0323815	0.21820651	2.7324837	21	3 28.6	19.5
151171 2001 XU_{166}	16.4	X	188.78065	264.63763	185.75117	2.51537	0.0624485	0.22862361	2.6488376	21	6 28.5	20.2
151172 2001 XW_{167}	16.0	X	226.30429	265.97538	118.96143	4.26984	0.1328089	0.22638753	2.6662511	21	5 13.8	20.2
151173 2001 XS_{171}	16.1	X	86.38482	30.11840	84.68933	3.30136	0.0422353	0.21712365	2.7415613	21	3 25.8	19.8
151174 2001 XT_{182}	16.0	X	206.48487	191.52736	199.04813	1.48281	0.2108407	0.22358693	2.6884695	21	4 28.8	20.5
151175 2001 XP_{189}	15.5	X	5.93455	149.88089	213.63375	1.73238	0.2460957	0.24265649	2.5457052	21	12 2.1	17.7
151176 2001 XM_{194}	16.2	X	100.74981	265.00505	158.50087	2.07486	0.2409370	0.21196527	2.7858619	21	3 7.5	19.7
151177 2001 XV_{195}	15.1	X	47.27910	254.94472	269.76357	9.40351	0.2326919	0.21336189	2.7736914	21	4 22.0	18.0
151178 2001 XJ_{200}	16.0	X	302.32172	204.23440	145.51529	9.15322	0.1976989	0.23709514	2.5853596	21	6 17.8	19.2
151179 2001 XE_{206}	16.5	X	66.12206	325.04261	123.91747	5.46782	0.1778636	0.21205787	2.7850508	21	2 6.9	19.3
151180 2001 XY_{207}	16.1	X	174.65102	342.47268	177.88704	4.97003	0.1984411	0.23415163	2.6069814	21	9 9.8	20.5
151181 2001 XR_{209}	15.5	X	160.08196	327.05121	170.35900	4.15314	0.1444086	0.22953733	2.6418034	21	7 29.0	19.7
151182 2001 XU_{211}	15.5	X	167.19649	253.87423	149.30783	6.47831	0.1277104	0.22079571	2.7110798	21	4 9.9	19.7
151183 2001 XZ_{211}	15.6	X	23.97061	277.26552	233.53117	8.86877	0.0610161	0.21421496	2.7663227	21	2 8.2	19.2
151184 2001 XW_{212}	15.9	X	255.42784	212.24789	183.37554	5.54458	0.2981548	0.23273740	2.6175316	21	6 9.1	20.2
151185 2001 XH_{214}	16.7	X	134.23261	180.17534	272.99866	17.66741	0.0956132	0.37054288	1.9197458	21	4 10.1	19.2
151186 2001 XP_{216}	15.1	X	60.38379	291.25476	257.64728	7.58025	0.0186400	0.17406033	3.1768950	21	5 24.9	19.6
151187 2001 XB_{217}	15.3	X	259.12718	273.33191	93.32471	11.37370	0.1992809	0.22902535	2.6457391	21	5 19.1	19.4
151188 2001 XK_{217}	15.1	X	182.06132	73.33041	101.76142	21.04303	0.0878425	0.18579079	3.0417249	21	10 15.3	20.2
151189 2001 XH_{218}	15.9	X	88.76610	128.74372	20.72575	5.04889	0.2023044	0.22397130	2.6853927	21	6 4.7	19.6
151190 2001 XT_{219}	16.0	X	163.66488	35.44444	53.55198	5.02737	0.0565594	0.22765618	2.6563365	21	5 27.6	19.6
151191 2001 XD_{220}	16.2	X	158.62892	227.48357	298.58949	0.86023	0.1007029	0.23609708	2.5926405	21	9 2.3	20.2
151192 2001 XS_{221}	16.5	X	159.30225	84.37266	0.74220	1.70975	0.0398565	0.22696870	2.6616977	21	5 15.9	20.3
151193 2001 XL_{222}	15.8	X	49.38202	228.53443	277.45251	7.16110	0.0965959	0.21822258	2.7323495	21	3 13.2	19.2
151194 2001 XG_{230}	15.8	X	228.88469	71.63072	261.69310	3.92025	0.0653095	0.22049069	2.7135795	21	3 13.3	19.9
151195 2001 XQ_{231}	16.2	X	160.46357	104.69686	313.17552	3.17735	0.1455355	0.22222694	2.6994269	21	4 18.8	20.4
151196 2001 XB_{263}	16.1	X	62.42717	236.84384	51.62025	2.69878	0.1563205	0.24403736	2.5360930	21	10 31.0	19.5
151197 2001 YS	15.7	X	175.44750	328.88310	126.72267	17.49558	0.1964181	0.22975910	2.6401032	21	6 23.3	20.3
151198 2001 YS_{6}	15.3	X	161.72375	41.48554	167.83312	13.21093	0.0445218	0.24588803	2.5233517	21	11 5.5	19.0
151199 2001 YT_{14}	16.6	X	240.36345	42.98915	353.27077	3.34013	0.1895076	0.23245040	2.6196856	21	6 4.8	20.8
151200 2001 YP_{15}	16.0	X	69.10347	103.24202	81.80922	3.20833	0.1357629	0.22335486	2.6903314	21	6 16.1	19.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
151201 2001 YT_{18}	15.7	X	284.38917	299.76448	106.28260	13.20978	0.1143608	0.18369817	3.0647813	21	8 22.2	19.9
151202 2001 YB_{23}	16.1	X	356.35832	267.86107	42.10201	3.33164	0.0659777	0.23551224	2.5969309	21	8 8.9	19.1
151203 2001 YV_{26}	15.5	X	236.73342	309.52378	40.56454	6.42909	0.0630310	0.22384069	2.6864372	21	4 15.4	19.4
151204 2001 YV_{29}	15.9	X	63.18764	276.78622	272.81534	3.53139	0.0871670	0.22540916	2.6739606	21	6 5.7	19.0
151205 2001 YQ_{31}	16.4	X	129.35100	144.20141	274.13462	1.49735	0.0788741	0.21770327	2.7366930	21	3 10.9	20.2
151206 2001 YY_{33}	16.2	X	98.47136	237.25757	306.61973	2.86516	0.0536917	0.22927848	2.6437914	21	7 12.7	19.8
151207 2001 YS_{36}	16.4	X	157.48155	98.37443	285.56051	3.60576	0.1718374	0.21798703	2.7343175	21	3 7.4	20.7
151208 2001 YK_{37}	16.2	X	125.30052	35.23117	57.22538	1.99072	0.1394570	0.22069852	2.7118756	21	4 27.2	20.0
151209 2001 YP_{41}	15.6	X	150.19825	336.32770	59.51503	5.20443	0.1216303	0.21743538	2.7389403	21	3 14.8	19.7
151210 2001 YK_{43}	16.1	X	81.03966	20.30318	68.04199	4.27894	0.1600039	0.21352849	2.7722485	21	3 1.6	19.4
151211 2001 YX_{45}	15.8	X	236.78314	299.45863	66.29599	2.85851	0.2241201	0.22735237	2.6587024	21	4 23.3	20.3
151212 2001 YD_{52}	16.6	X	181.90560	43.38250	1.47094	1.96316	0.2088592	0.22338357	2.6901009	21	4 25.4	21.3
151213 2001 YQ_{52}	15.7	X	108.72060	116.79847	83.22305	14.14109	0.1009378	0.23083923	2.6318611	21	8 28.6	19.7
151214 2001 YU_{52}	15.7	X	136.02262	30.91788	69.68777	3.46548	0.0664355	0.22247773	2.6973979	21	5 11.7	19.5
151215 2001 YA_{53}	15.6	X	97.32257	336.03082	77.18131	8.23771	0.1646143	0.21186532	2.7867380	21	2 9.1	19.2
151216 2001 YW_{57}	15.8	X	55.69460	17.38591	72.94585	4.69066	0.0671634	0.21009197	2.8023976	21	1 13.2	19.3
151217 2001 YH_{61}	15.7	X	283.75669	226.40006	61.26378	6.84883	0.0546893	0.21859114	2.7292774	21	3 26.8	19.5
151218 2001 YY_{65}	15.7	X	133.87018	118.55709	286.36298	5.20116	0.0340292	0.21357839	2.7718167	21	2 21.0	19.6
151219 2001 YA_{66}	15.7	X	62.55428	233.24007	290.18200	2.02541	0.1392277	0.21806101	2.7336990	21	5 6.7	18.8
151220 2001 YU_{68}	15.6	X	215.14466	26.98257	357.07230	1.96182	0.1629571	0.22404653	2.6847915	21	4 28.7	19.9
151221 2001 YS_{76}	15.7	X	327.78443	205.05826	59.68422	5.36214	0.0212845	0.22065481	2.7122338	21	4 26.5	19.1
151222 2001 YJ_{91}	15.7	X	318.41353	180.57671	334.31171	1.61970	0.1558342	0.20090818	2.8871607	21	—	—
151223 2001 YB_{96}	15.8	X	95.17647	79.46887	24.58030	4.91512	0.0751897	0.21529119	2.7570959	21	3 27.8	19.3
151224 2001 YL_{96}	15.2	X	17.18803	93.15998	92.55080	16.51755	0.1648678	0.21236006	2.7824080	21	3 28.4	18.5
151225 2001 YM_{99}	16.4	X	285.81602	255.08241	131.34322	0.45282	0.2659179	0.18618902	3.0373861	21	7 3.2	20.7
151226 2001 YB_{102}	16.1	X	61.40083	28.04398	111.22290	4.59302	0.1254558	0.21643459	2.7473771	21	4 2.9	19.3
151227 2001 YR_{103}	16.2	X	129.56477	268.06555	187.58144	2.55555	0.1529239	0.21992626	2.7182204	21	5 7.8	20.1
151228 2001 YN_{106}	15.6	X	34.67326	73.09533	120.13508	10.59731	0.0973854	0.21707250	2.7419919	21	5 2.7	19.0
151229 2001 YB_{109}	15.7	X	181.32159	345.06511	77.77380	10.74295	0.1090980	0.22449071	2.6812489	21	5 17.4	19.8
151230 2001 YG_{114}	15.7	X	34.43499	294.70868	116.28057	7.46898	0.0618943	0.20391975	2.8586645	21	—	—
151231 2001 YT_{114}	14.8	X	191.33994	300.52791	63.91644	13.87681	0.1786165	0.21698483	2.7427305	21	3 23.5	19.6
151232 2001 YM_{116}	15.7	X	285.95175	75.11113	319.52525	3.53397	0.1359802	0.23629653	2.5911814	21	8 5.5	18.7
151233 2001 YT_{122}	15.6	X	58.65235	83.75855	31.59183	8.73214	0.0770820	0.21449668	2.7639001	21	2 22.4	19.1
151234 2001 YX_{122}	15.5	X	147.08345	340.74414	57.92383	14.91072	0.0736422	0.21741077	2.7391470	21	3 15.8	19.7
151235 2001 YG_{124}	15.5	X	189.44022	12.60771	10.81001	4.71341	0.1305315	0.22177175	2.7031194	21	4 4.7	19.8
151236 2001 YS_{128}	15.6	X	87.98195	197.24069	295.18077	13.23118	0.0263879	0.22009412	2.7168381	21	4 8.3	19.5
151237 2001 YR_{145}	15.8	X	285.51699	138.63284	142.42790	4.27072	0.0209317	0.21534909	2.7566017	21	3 23.8	19.5
151238 2001 YA_{153}	15.7	X	104.65206	44.71071	0.27866	13.04629	0.2061840	0.21075619	2.7965064	21	2 16.5	19.6
151239 2001 YR_{155}	15.7	X	74.91660	126.39990	327.78458	11.04617	0.2146432	0.21273685	2.7791217	21	3 3.8	18.9
151240 2001 YL_{157}	15.7	X	107.01633	43.57280	39.26761	13.57778	0.1631470	0.21538237	2.7563178	21	4 1.6	19.6
151241 2002 AE	15.9	X	93.18697	191.70868	252.76379	2.97410	0.0755558	0.21349684	2.7725225	21	2 25.7	19.5
151242 Hajós	16.2	X	106.20736	93.23290	304.70459	6.37922	0.2334272	0.21005179	2.8027549	21	2 8.4	19.9
151243 2002 AC_{20}	15.6	X	105.26245	80.24367	331.11174	2.65533	0.0929443	0.20995614	2.8036061	21	2 4.7	19.4
151244 2002 AU_{23}	15.5	X	55.40975	356.83877	63.81896	6.92484	0.0525307	0.20470974	2.8513052	21	—	—
151245 2002 AJ_{24}	15.7	X	154.84603	87.63111	333.78623	11.03826	0.0877183	0.21815869	2.7328830	21	4 9.9	19.9
151246 2002 AK_{24}	15.5	X	101.93383	102.10265	120.72680	13.94317	0.1269560	0.23043832	2.6349128	21	9 21.6	19.6
151247 2002 AX_{24}	15.6	X	235.36868	166.21758	276.17028	7.87266	0.1024080	0.17973175	3.1097073	21	8 4.4	20.2
151248 2002 AA_{26}	16.0	X	11.11246	279.73726	120.93021	5.55558	0.1029178	0.19489645	2.9462308	21	12 26.9	19.7
151249 2002 AX_{30}	16.3	X	345.79199	244.85617	344.93360	2.02613	0.1261478	0.21416412	2.7667605	21	3 24.3	19.6
151250 2002 AN_{38}	15.2	X	63.79324	62.43636	109.04449	15.18512	0.1406102	0.21975289	2.7196498	21	5 25.3	18.7
151251 2002 AE_{41}	16.3	X	145.72347	257.07245	152.01094	3.84183	0.1965908	0.21732948	2.7398300	21	3 31.8	20.6
151252 2002 AJ_{47}	15.5	X	19.79076	296.37312	126.31184	13.38644	0.0692424	0.19873526	2.9081675	21	—	—
151253 2002 AS_{51}	15.9	X	344.09874	284.95347	297.28077	3.19171	0.0403492	0.21360103	2.7716209	21	3 19.8	19.5
151254 2002 AG_{55}	15.9	X	167.61682	252.80954	130.82213	5.18725	0.0855201	0.21433736	2.7652695	21	3 14.5	20.0
151255 2002 AK_{55}	16.1	X	342.37166	350.54528	115.79537	2.23988	0.1051681	0.19902614	2.9053333	21	—	—
151256 2002 AT_{57}	14.8	X	315.97444	301.61850	299.80969	16.15927	0.1136274	0.21019333	2.8014965	21	2 20.2	18.8
151257 2002 AT_{59}	14.8	X	75.59297	230.95954	307.44332	13.11709	0.1111686	0.21866965	2.7286241	21	6 12.9	18.5
151258 2002 AT_{65}	16.0	X	194.10371	241.74903	134.78170	3.56128	0.1083685	0.21842176	2.7306882	21	4 2.4	20.2
151259 2002 AR_{69}	15.2	X	246.45633	63.81268	269.78845	12.21932	0.2071663	0.22631083	2.6668535	21	3 17.5	19.8
151260 2002 AR_{79}	15.6	X	234.65984	337.54550	69.14517	2.96037	0.0840903	0.17707973	3.1406785	21	6 23.7	20.3
151261 2002 AT_{84}	15.7	X	145.95748	239.81633	164.71161	5.57300	0.0608103	0.21447400	2.7640949	21	3 12.6	19.6
151262 2002 AO_{88}	15.7	X	6.19064	11.56812	169.56783	5.74950	0.0301872	0.21269792	2.7794608	21	2 27.1	19.2
151263 2002 AX_{95}	15.8	X	209.95386	226.96733	85.41834	6.91525	0.0216172	0.20937739	2.8087701	21	1 31.2	19.8
151264 2002 AT_{101}	16.1	X	106.00567	116.17931	336.33678	1.56261	0.0355572	0.21463355	2.7627249	21	3 20.0	19.7
151265 2002 AO_{114}	15.4	X	122.13260	73.12179	93.34138	4.45641	0.1065082	0.17335035	3.1855632	21	7 24.5	20.3
151266 2002 AZ_{119}	15.8	X	4.20991	317.55725	123.06294	11.41118	0.0916590	0.19748370	2.9204417	21	—	—
151267 2002 AY_{124}	14.1	X	134.03770	242.38433	340.25971	26.06207	0.1444555	0.17890832	3.1192417	21	10 3.0	19.4
151268 2002 AJ_{133}	16.0	X	64.71672	119.17045	43.23159	4.00407	0.1325913	0.21761760	2.7374112	21	5 8.4	19.1
151269 2002 AX_{138}	15.8	X	190.37004	227.89103	130.00855	5.85391	0.0774988	0.21482222	2.7611071	21	3 6.5	20.0
151270 2002 AF_{140}	15.9	X	191.11073	126.74977	260.88468	3.72839	0.0888329	0.22183028	2.7026439	21	4 9.5	20.0
151271 2002 AO_{146}	16.0	X	197.69285	76.48047	267.83720	4.98473	0.0422641	0.21286555	2.7780014	21	2 21.3	20.1
151272 2002 AG_{147}	16.1	X	251.34570	235.98171	103.82287	5.90703	0.0714979	0.22028551	2.7152642	21	4 20.6	20.0
151273 2002 AF_{149}	15.8	X	124.19296	79.66241	309.52125	6.38349	0.2339561	0.21209892	2.7846914	21	2 17.2	19.9
151274 2002 AE_{159}	15.9	X	312.09320	277.38193	165.92935	3.11506	0.0981922	0.19047837	2.9916143	21	11 20.1	19.6
151275 2002 AH_{181}	15.9	X	164.34443	82.14415	334.55292	14.42704	0.0587459	0.21949592	2.7217720	21	4 10.2	20.1
151276 2002 AD_{182}	15.3	X	51.06242	152.03748	84.22719	11.88159	0.1842208	0.22338203	2.6901132	21	8 10.8	18.7
151277 2002 AM_{182}	15.6	X	157.31574	64.06175	323.63756	12.06841	0.2235782	0.21568859	2.7537083	21	3 13.4	20.3
151278 2002 AK_{183}	15.0	X	315.57127	96.26417	286.32754	13.42534	0.0665166	0.24208166	2.5497335	21	9 6.5	18.3
151279 2002 AY_{184}	15.7	X	239.09110	294.08059	111.06025	11.68260	0.1256337	0.23188257	2.6239606	21	6 22.2	19.6
151280 2002 AM_{188}	16.2	X	45.72764	8.03332	131.68899	4.40765	0.0357833	0.21171145	2.7880881	21	3 1.8	19.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
151281 2002 AK_{193}	15.8	X	259.59103	172.61911	137.88550	3.60754	0.0731327	0.21561578	2.7543282	21	3 22.6	19.7
151282 2002 AV_{195}	16.1	X	341.30696	19.82825	61.30299	2.90064	0.0734395	0.19508263	2.9443560	21	—	—
151283 2002 AM_{202}	15.8	X	66.10370	200.93198	269.74534	2.31643	0.0498082	0.21001621	2.8030715	21	2 20.0	19.4
151284 2002 AK_{203}	15.6	X	132.61502	175.93738	106.40211	2.60296	0.0321905	0.18752860	3.0229042	21	12 19.4	20.0
151285 2002 AQ_{208}	15.6	X	353.92653	76.21503	276.79749	6.03549	0.1113557	0.19001519	2.9964739	21	9 25.6	19.3
151286 2002 BJ_{14}	15.3	X	341.37684	112.01541	316.21032	12.21305	0.1337581	0.19194533	2.9763524	21	12 18.1	18.9
151287 2002 BQ_{22}	14.9	X	172.19718	99.54258	353.59382	11.42141	0.1385220	0.22594438	2.6697362	21	6 14.0	19.4
151288 2002 BV_{24}	15.3	X	13.16802	147.23158	96.19360	13.47160	0.2080415	0.21502832	2.7593425	21	6 6.1	17.8
151289 2002 BW_{31}	16.3	X	350.56649	261.89850	169.37435	1.42003	0.0609928	0.19340092	2.9613997	21	12 31.4	20.2
151290 2002 CO_{7}	16.2	X	22.73690	244.90985	286.50145	2.27581	0.1309752	0.21066139	2.7973454	21	3 8.2	19.1
151291 2002 CV_{10}	17.1	X	227.43756	61.07886	38.75361	22.59728	0.0571675	0.37960968	1.8890547	21	9 24.6	19.4
151292 2002 CD_{13}	15.1	X	109.40585	46.85164	108.87306	15.91857	0.1499784	0.21992083	2.7182651	21	7 1.7	19.1
151293 2002 CN_{26}	14.7	X	341.88615	67.05616	304.01087	11.12191	0.1203152	0.24302889	2.5431039	21	10 4.9	17.6
151294 2002 CV_{27}	15.5	X	66.51735	123.05532	334.65733	8.58193	0.1222560	0.20925896	2.8098297	21	2 13.6	18.9
151295 2002 CY_{33}	15.0	X	318.33082	328.65802	96.91820	15.69878	0.0810906	0.18739535	3.0243369	21	11 12.3	19.1
151296 2002 CQ_{46}	14.4	X	173.08861	38.40091	180.32296	24.48832	0.2752018	0.17922848	3.1155259	21	11 13.5	20.3
151297 2002 CE_{52}	15.1	X	227.31774	0.80778	160.59400	11.43703	0.1008650	0.18528574	3.0472498	21	11 6.6	19.7
151298 2002 CD_{67}	15.7	X	206.70524	14.91862	323.56093	3.65926	0.0772153	0.21150925	2.7898647	21	2 26.3	19.8
151299 2002 CV_{77}	15.7	X	41.52628	160.22655	359.74061	4.14168	0.0101391	0.21144279	2.7904493	21	3 19.9	19.3
151300 2002 CL_{81}	15.6	X	233.26846	209.15284	68.57333	3.07058	0.0242334	0.20337737	2.8637447	21	1 16.2	19.5
151301 2002 CW_{82}	15.0	X	265.90015	140.89547	123.45537	6.48285	0.1300718	0.20383165	2.8594882	21	1 27.1	19.2
151302 2002 CZ_{83}	15.1	X	197.48633	82.56302	148.19592	11.01869	0.0579628	0.19080876	2.9881599	21	12 28.9	19.6
151303 2002 CT_{84}	15.7	X	277.51274	334.55700	100.34863	3.28014	0.1348981	0.18222698	3.0812547	21	9 14.4	19.8
151304 2002 CJ_{85}	15.6	X	68.86337	91.27368	314.18743	15.85550	0.0916327	0.20177878	2.8788501	21	—	—
151305 2002 CW_{90}	15.8	X	309.15413	43.71922	131.73870	2.94099	0.0144735	0.19943432	2.9013678	21	—	—
151306 2002 CZ_{90}	15.2	X	38.27654	206.87261	137.22890	9.94921	0.0875095	0.18565552	3.0432021	21	11 22.6	19.4
151307 2002 CJ_{92}	15.3	X	224.81474	183.46749	132.31819	8.61527	0.0583979	0.20944627	2.8081543	21	2 20.1	19.4
151308 2002 CO_{95}	15.7	X	29.20849	107.48658	133.02115	0.76709	0.1079769	0.21774848	2.7363141	21	6 25.7	18.6
151309 2002 CD_{97}	15.4	X	198.30339	80.16669	137.02510	11.18191	0.0642820	0.18877761	3.0095557	21	12 13.9	20.0
151310 2002 CO_{98}	15.6	X	326.94203	162.32558	358.99893	4.31990	0.0755376	0.19935060	2.9021801	21	—	—
151311 2002 CA_{105}	15.3	X	186.15495	42.78749	151.33400	10.44343	0.0542811	0.18308469	3.0716238	21	11 5.3	20.0
151312 2002 CY_{105}	15.2	X	258.45299	184.11998	355.97497	12.08903	0.1323215	0.19108918	2.9852359	21	12 30.8	19.5
151313 2002 CN_{107}	15.3	X	257.38620	336.42756	157.44416	16.42803	0.0438476	0.18457411	3.0550773	21	11 17.1	19.9
151314 2002 CF_{108}	14.6	X	238.80349	1.74741	165.36721	11.37649	0.1028666	0.18626198	3.0365929	21	11 25.4	19.1
151315 2002 CQ_{115}	16.0	X	261.13543	56.65658	57.45458	2.91501	0.1781051	0.18497163	3.0506985	21	10 6.3	20.2
151316 2002 CE_{118}	15.0	X	259.48111	151.09099	332.48341	9.85133	0.0640922	0.18469662	3.0537261	21	10 26.7	19.4
151317 2002 CH_{121}	15.8	X	327.26628	332.66731	148.51062	2.97347	0.0430944	0.19741239	2.9211450	21	—	—
151318 2002 CH_{123}	15.4	X	182.47355	337.75021	229.60915	3.43595	0.1481622	0.18630689	3.0361049	21	11 9.6	20.3
151319 2002 CT_{125}	15.5	X	265.33134	192.10094	317.39296	8.84585	0.0116372	0.19088393	2.9873755	21	12 17.3	19.7
151320 2002 CQ_{131}	15.7	X	271.21645	198.96897	186.36013	6.07405	0.0206958	0.22412513	2.6841638	21	7 19.1	19.3
151321 2002 CY_{133}	15.1	X	188.24462	222.28311	352.37454	12.78965	0.1191582	0.18451581	3.0557207	21	11 20.9	20.2
151322 2002 CO_{136}	15.1	X	349.68873	296.03049	142.57112	17.47196	0.0722251	0.19574503	2.9377098	21	—	—
151323 2002 CF_{138}	15.0	X	81.25027	78.23562	154.99618	13.44739	0.1533518	0.22568341	2.6717939	21	9 10.1	18.7
151324 2002 CG_{147}	14.8	X	145.31371	56.96325	178.03352	10.23830	0.1495969	0.18111063	3.0939034	21	11 10.7	19.9
151325 2002 CN_{147}	16.1	X	124.41123	18.45462	60.91254	1.02018	0.0454550	0.21353891	2.7721584	21	3 28.9	19.8
151326 2002 CO_{149}	15.6	X	289.96474	136.51501	319.26463	9.34741	0.0739815	0.18779827	3.0200096	21	10 31.6	19.8
151327 2002 CG_{151}	15.3	X	64.83764	181.23751	100.43148	13.26672	0.1700684	0.22879467	2.6475171	21	10 30.8	19.2
151328 2002 CF_{163}	15.2	X	292.51408	109.09455	9.07173	8.60318	0.0558522	0.19157531	2.9801836	21	12 7.4	19.3
151329 2002 CO_{176}	15.2	X	329.53387	173.52184	106.25262	6.83960	0.0921085	0.16933580	3.2357145	21	5 16.1	19.4
151330 2002 CD_{178}	15.7	X	257.64314	357.63783	42.13577	2.12301	0.1122875	0.17765088	3.1339433	21	7 8.3	20.2
151331 2002 CH_{198}	15.9	X	155.38066	327.94981	358.51030	1.94564	0.0609418	0.20006806	2.8952376	21	—	—
151332 2002 CK_{202}	15.9	X	230.74237	254.43881	43.02664	2.57761	0.0686578	0.20566106	2.8425056	21	2 4.5	20.2
151333 2002 CF_{203}	15.6	X	243.35868	296.97081	330.70999	10.25197	0.1044390	0.20200688	2.8766826	21	1 12.8	20.1
151334 2002 CY_{213}	15.8	X	224.59246	234.97624	341.06157	2.98138	0.0290998	0.19261420	2.9694579	21	—	—
151335 2002 CH_{216}	15.4	X	169.80256	291.67279	26.60625	2.18712	0.0660411	0.19842627	2.9111859	21	—	—
151336 2002 CE_{217}	15.6	X	177.50297	227.35478	6.53338	6.64235	0.1471413	0.18633685	3.0357795	21	12 4.9	20.5
151337 2002 CM_{217}	15.3	X	230.36018	158.87884	107.55149	3.23944	0.0280902	0.19947936	2.9009310	21	—	—
151338 2002 CM_{224}	15.6	X	299.88121	260.84173	320.76707	1.02652	0.0113045	0.20405301	2.8574198	21	1 28.0	19.4
151339 2002 CT_{224}	15.2	X	0.91518	26.63077	197.32531	4.31670	0.1364235	0.20977335	2.8052346	21	4 11.9	18.2
151340 2002 CE_{227}	15.2	X	15.33303	270.25625	147.06928	12.56375	0.0353755	0.19523256	2.9428484	21	—	—
151341 2002 CK_{236}	16.0	X	72.14172	275.59239	149.43541	2.49517	0.0621098	0.20561028	2.8429737	21	1 4.5	19.7
151342 2002 CV_{236}	14.5	X	126.48416	80.12907	152.55028	14.73665	0.1430198	0.17551853	3.1592747	21	10 23.7	19.7
151343 2002 CM_{241}	15.1	X	289.30297	24.93228	174.24788	15.05325	0.0736121	0.19902605	2.9053342	21	—	—
151344 2002 CE_{246}	15.3	X	8.22315	210.18064	149.53692	12.04440	0.1985194	0.18421276	3.0590712	21	11 12.7	19.0
151345 2002 CD_{247}	15.5	X	344.96009	259.24656	176.05861	1.88291	0.0815138	0.18982995	2.9984229	21	12 28.9	19.3
151346 2002 CK_{259}	14.6	X	239.44754	302.55093	117.47935	22.23423	0.3922166	0.17782796	3.1318624	21	6 21.8	20.4
151347 2002 CP_{265}	16.3	X	252.80997	166.33973	125.75367	5.38800	0.0818525	0.20827108	2.8187079	21	2 20.2	20.4
151348 2002 CJ_{270}	16.2	X	201.23644	69.79603	136.16341	3.89024	0.1662682	0.18773827	3.0206530	21	11 24.8	21.0
151349 Stanleycooper	16.3	X	220.41300	348.94616	2.34977	1.62740	0.0964224	0.21531357	2.7569049	21	3 27.8	20.3
151350 2002 CZ_{279}	15.9	X	330.62521	71.05427	316.24077	3.77224	0.1580998	0.18482337	3.0523298	21	10 1.0	19.4
151351 Dalleore	15.7	X	83.49561	185.49566	162.05129	1.15242	0.1368229	0.19186262	2.9772077	21	—	—
151352 2002 CK_{286}	15.9	X	163.17865	144.12932	158.03006	2.61974	0.0269223	0.19613070	2.9338574	21	—	—
151353 2002 CW_{291}	15.8	X	161.63596	217.11538	275.14986	1.48351	0.0522705	0.17551498	3.1593174	21	7 20.9	20.5
151354 2002 CW_{294}	15.2	X	299.94583	113.36341	6.05007	10.73525	0.0507832	0.19322084	2.9632394	21	12 20.9	19.3
151355 2002 CH_{295}	15.6	X	27.90534	277.52595	132.14096	1.04629	0.0268499	0.19339348	2.9614757	21	—	—
151356 2002 CQ_{296}	15.8	X	277.35049	328.44676	123.14071	1.92324	0.1098113	0.18381440	3.0634893	21	10 8.6	19.9
151357 2002 CN_{304}	15.2	X	100.49907	39.40804	259.11792	9.55065	0.0884457	0.18743693	3.0238897	21	12 7.7	19.7
151358 2002 CY_{309}	15.4	X	281.23065	292.00395	173.44450	10.34721	0.0897301	0.18803607	3.0174629	21	11 5.3	19.5
151359 2002 CG_{311}	15.5	X	137.40950	257.34053	40.33117	4.81262	0.0549593	0.19007439	2.9958517	21	—	—
151360 2002 CA_{312}	14.9	X	157.07028	306.64534	319.79658	9.89072	0.1268574	0.18762841	3.0218321	21	12 26.7	19.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
151361 2002 CB_{312}	15.6	X	176.78649	177.00151	121.36971	6.71102	0.1058172	0.19882421	2.9073002	21	—	—
151362 Chenkegong	15.4	X	290.10647	213.54704	273.05029	8.70897	0.1113598	0.19045223	2.9918881	21	12 9.8	19.2
151363 2002 CO_{314}	15.4	X	285.77858	185.91214	81.14977	9.97650	0.0947473	0.20873600	2.8145209	21	2 28.4	19.5
151364 2002 DN_{3}	17.1	X	313.13828	211.67731	21.39484	16.49377	0.1313030	0.41131777	1.7906790	21	—	—
151365 2002 DR_{6}	15.8	X	293.21795	333.40640	178.01552	2.27550	0.0761281	0.19429669	2.9522907	21	—	—
151366 2002 DK_{15}	15.1	X	355.50641	25.04419	316.58561	14.65454	0.0979202	0.17915778	3.1163455	21	9 9.0	19.1
151367 2002 DM_{16}	15.2	X	276.18771	309.64644	294.93907	5.07542	0.1852660	0.20181974	2.8784606	21	1 9.2	19.6
151368 2002 ET_{3}	15.4	X	312.36365	325.78363	169.24139	11.86001	0.0420871	0.19335056	2.9619139	21	—	—
151369 2002 EB_{4}	15.5	X	109.50910	92.42595	161.97178	1.23244	0.1428266	0.17917112	3.1161909	21	10 29.8	20.4
151370 2002 EF_{5}	15.8	X	316.97928	285.99121	151.33199	2.93534	0.0895289	0.18661894	3.0327195	21	11 19.7	19.6
151371 2002 EK_{14}	15.0	X	138.23212	76.17661	186.10635	13.35571	0.2344932	0.18251972	3.0779591	21	12 6.7	20.5
151372 2002 EM_{15}	15.3	X	294.68992	51.69410	172.26881	2.69162	0.0157039	0.20344958	2.8630671	21	1 23.4	19.3
151373 2002 EW_{16}	15.3	X	207.05775	231.37265	27.15939	10.62550	0.3083924	0.19132733	2.9827582	21	—	—
151374 2002 EX_{19}	14.5	X	115.76949	295.58839	359.84051	10.30107	0.1291127	0.18479975	3.0525899	21	12 21.5	19.5
151375 2002 EK_{22}	14.9	X	191.22166	130.81833	128.34739	8.97681	0.0943151	0.19134078	2.9826184	21	—	—
151376 2002 EP_{26}	15.3	X	348.94185	176.36830	262.59282	3.75097	0.0637395	0.19067333	2.9895747	21	—	—
151377 2002 EY_{27}	15.2	X	299.92842	71.69188	40.49888	3.43204	0.0465723	0.18775066	3.0205202	21	12 11.1	19.3
151378 2002 EH_{43}	14.9	X	123.45194	81.05763	185.74138	11.79617	0.0583186	0.18315463	3.0708419	21	11 23.1	19.6
151379 2002 ED_{45}	15.0	X	127.65137	258.85812	330.87125	4.46604	0.0962463	0.17892308	3.1190701	21	10 12.8	19.9
151380 2002 EF_{47}	15.4	X	355.36077	85.91156	342.26985	10.25821	0.0871782	0.19057138	2.9906409	21	—	—
151381 2002 EY_{49}	15.4	X	126.97671	154.44617	164.49281	10.77538	0.0811078	0.19225450	2.9731606	21	—	—
151382 2002 EY_{50}	15.2	X	128.11893	184.24972	42.29991	11.47460	0.1689718	0.17692204	3.1425444	21	10 17.6	20.3
151383 2002 EZ_{58}	16.0	X	289.97937	254.79504	179.42660	1.15394	0.1217042	0.18344944	3.0675510	21	10 1.5	20.0
151384 2002 EU_{59}	15.7	X	41.21126	177.47393	264.28966	0.96951	0.0262666	0.19861006	2.9093897	21	—	—
151385 2002 EH_{62}	15.6	X	218.22386	133.54324	344.67778	4.41583	0.0913193	0.17739289	3.1369812	21	9 2.4	20.4
151386 2002 EL_{63}	15.4	X	329.91981	240.61438	179.12536	9.68149	0.0756546	0.18526023	3.0475294	21	11 18.1	19.4
151387 2002 EF_{68}	15.4	X	171.41468	258.79426	355.30421	1.21297	0.0504586	0.18760912	3.0220391	21	12 28.2	19.9
151388 2002 EY_{69}	15.5	X	222.86160	321.21719	190.37645	3.86860	0.1014102	0.18209934	3.0826944	21	10 17.7	20.0
151389 2002 EZ_{69}	15.5	X	213.17556	23.28370	197.54284	2.87292	0.0607258	0.18862988	3.0111269	21	—	—
151390 2002 ED_{71}	15.3	X	139.05959	333.83911	214.43990	4.44698	0.0934799	0.17365354	3.1818543	21	9 4.1	20.1
151391 2002 EM_{72}	14.8	X	268.21214	120.01607	356.93811	17.05699	0.1358886	0.18408605	3.0604747	21	10 17.7	19.2
151392 2002 EJ_{78}	15.3	X	193.60925	204.33593	30.41691	2.17629	0.0949342	0.18523247	3.0478340	21	12 25.2	19.9
151393 2002 ET_{79}	15.2	X	192.67909	285.99604	226.76945	5.46321	0.0818951	0.17772690	3.1330496	21	9 15.9	20.0
151394 2002 EX_{79}	15.8	X	298.57133	17.22493	131.20225	2.09666	0.1255796	0.19298012	2.9657031	21	—	—
151395 2002 ET_{83}	15.1	X	154.08693	96.76432	156.95933	7.11541	0.0760430	0.18514449	3.0487995	21	12 9.4	19.9
151396 2002 EM_{86}	14.5	X	106.57957	249.09508	15.59266	12.71973	0.2423980	0.17573800	3.1566439	21	11 11.4	19.9
151397 2002 EF_{89}	15.0	X	232.70297	251.91680	322.35860	8.72982	0.0536613	0.19062542	2.9900757	21	—	—
151398 2002 EH_{89}	14.5	X	151.24004	278.35353	350.95318	14.67213	0.2415984	0.18215388	3.0820790	21	12 23.2	20.1
151399 2002 EU_{90}	14.8	X	82.14624	114.05775	164.28120	5.63642	0.1134515	0.17814199	3.1281809	21	10 28.1	19.4
151400 2002 EW_{99}	14.7	X	73.31184	329.57894	297.09849	9.50552	0.1037789	0.17823542	3.1270875	21	9 25.6	19.3
151401 2002 EC_{101}	14.7	X	282.56332	132.59262	16.34942	11.40429	0.1142422	0.19221937	2.9735229	21	12 27.3	18.7
151402 2002 EW_{105}	15.0	X	222.44170	343.38563	137.26773	10.94379	0.0571421	0.17724205	3.1387607	21	9 15.9	19.6
151403 2002 EV_{106}	15.3	X	261.18575	108.74638	31.00188	9.64292	0.0914587	0.18671964	3.0316289	21	11 16.9	19.5
151404 2002 ER_{107}	15.4	X	248.33369	81.06721	346.09558	25.03040	0.2508760	0.17684120	3.1435021	21	7 25.4	20.8
151405 2002 EQ_{111}	14.7	X	283.99662	79.56458	132.08742	11.06626	0.0816009	0.19645861	2.9305918	21	—	—
151406 2002 EO_{115}	15.0	X	264.54348	63.50405	136.77783	12.51903	0.1980153	0.19092375	2.9869601	21	—	—
151407 2002 EF_{116}	15.9	X	265.38461	332.91919	248.54390	1.20674	0.0323709	0.19732983	2.9219597	21	—	—
151408 2002 EN_{121}	14.9	X	131.52510	211.20652	11.33132	16.32996	0.0720619	0.17578475	3.1560842	21	10 7.5	19.6
151409 2002 EX_{125}	15.4	X	135.83216	274.23439	352.42765	6.96035	0.0213766	0.18986082	2.9980979	21	12 3.0	19.8
151410 2002 EC_{126}	15.6	X	339.94471	72.69415	351.60377	7.16251	0.0169649	0.18945826	3.0023433	21	12 4.7	19.8
151411 2002 EN_{131}	15.1	X	91.58098	335.73766	322.71467	15.98967	0.0750611	0.18614376	3.0378785	21	11 22.9	19.9
151412 2002 EB_{137}	15.2	X	49.00659	29.81823	356.63274	10.00288	0.1135957	0.19140091	2.9819937	21	—	—
151413 2002 EN_{137}	15.4	X	1.36651	267.41581	163.58425	4.45250	0.0304023	0.19056311	2.9907274	21	—	—
151414 2002 EL_{139}	15.3	X	251.36684	311.40904	154.94053	9.19663	0.0247349	0.17938015	3.1137695	21	10 7.1	19.7
151415 2002 ES_{140}	15.3	X	140.02424	141.48958	145.35600	10.90112	0.0786236	0.18945474	3.0023805	21	—	—
151416 2002 ED_{145}	15.2	X	45.59220	316.53187	299.60778	2.65939	0.0329242	0.16943212	3.2344881	21	8 1.6	19.7
151417 2002 EA_{146}	15.9	X	224.96329	225.24611	15.03694	1.86924	0.0532763	0.19423422	2.9529237	21	—	—
151418 2002 ES_{146}	15.6	X	119.35765	37.51190	154.03323	2.87164	0.1378295	0.17092440	3.2156344	21	8 23.8	20.7
151419 2002 EA_{150}	15.6	X	149.95316	161.64620	123.18251	3.16413	0.2941612	0.18439834	3.0570183	21	—	—
151420 2002 EK_{151}	14.6	X	155.43448	142.66804	186.21032	10.72718	0.1553616	0.19267571	2.9688260	21	1 2.5	19.4
151421 2002 EW_{151}	14.8	X	111.71680	113.89576	179.29084	3.98264	0.0332157	0.18272763	3.0756240	21	12 8.4	19.3
151422 2002 FH	14.6	X	74.22127	213.38982	9.53792	14.18329	0.0575110	0.16838333	3.2479050	21	8 6.2	19.3
151423 2002 FS_{1}	15.0	X	152.21886	88.98601	140.96266	20.63052	0.2467248	0.18002311	3.1063512	21	11 15.5	20.8
151424 2002 FT_{1}	14.6	X	136.68214	145.00912	73.22892	13.19184	0.0900510	0.17835153	3.1257302	21	10 15.8	19.6
151425 2002 FT_{2}	14.8	X	89.41121	64.87887	188.65519	9.30963	0.0492291	0.17452046	3.1713084	21	9 25.6	19.2
151426 2002 FV_{2}	15.0	X	144.49973	202.30698	36.85787	5.27967	0.1402982	0.17917393	3.1161583	21	11 11.9	20.1
151427 2002 FF_{3}	16.5	X	244.34383	30.41461	10.50991	23.34317	0.0940427	0.37287874	1.9117201	21	6 23.2	19.4
151428 2002 FO_{10}	15.2	X	226.96502	100.86291	114.52652	7.27459	0.0902045	0.19064768	2.9898429	21	—	—
151429 2002 FT_{13}	14.7	X	155.38960	237.40165	35.89263	6.99750	0.1545617	0.18598674	3.0395881	21	12 31.9	19.8
151430 Nemunas	15.9	X	214.25494	67.21989	111.08284	2.73318	0.1072188	0.18362748	3.0655679	21	11 9.6	20.6
151431 2002 FH_{14}	16.0	X	306.10323	300.87910	144.91567	3.52090	0.1454687	0.18769257	3.0211434	21	11 9.5	19.6
151432 2002 FN_{27}	14.9	X	151.65782	191.81990	28.09255	10.11285	0.0567795	0.18334196	3.0687497	21	10 26.2	19.4
151433 2002 FS_{28}	15.3	X	252.06820	118.49805	36.73732	13.24080	0.1724974	0.18805277	3.0172843	21	11 13.4	19.5
151434 2002 FK_{38}	15.2	X	241.81447	72.41392	45.79790	5.59385	0.1188943	0.18137735	3.0908696	21	9 27.6	19.7
151435 2002 FN_{39}	16.0	X	283.09083	86.04541	84.30944	2.09842	0.0877864	0.19281172	2.9674297	21	—	—
151436 2002 GK_{2}	14.7	X	213.02660	221.58980	23.54711	8.63717	0.2336176	0.18744987	3.0237505	21	—	—
151437 2002 GB_{7}	14.4	X	95.62183	191.88068	94.60103	16.59604	0.0782241	0.17937582	3.1138196	21	11 20.4	19.2
151438 2002 GL_{7}	15.3	X	218.79582	84.19136	104.64690	6.26014	0.1006572	0.18424724	3.0586895	21	11 27.8	19.9
151439 2002 GY_{8}	15.3	X	197.29762	132.25879	34.26495	18.49965	0.2219739	0.17955353	3.1117647	21	10 6.9	20.6
151440 2002 GY_{14}	15.2	X	224.29338	164.01083	72.19729	2.31307	0.0226923	0.19293522	2.9661632	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
151441 2002 GT_{16}	15.3	X	177.22580	120.77030	94.67012	2.90336	0.1455840	0.18140796	3.0905219	21	11 14.6	20.2
151442 2002 GJ_{26}	14.3	X	217.35422	163.96059	26.12403	24.18231	0.1535911	0.18188334	3.0851345	21	11 14.3	19.3
151443 2002 GH_{34}	15.1	X	232.34390	349.97724	150.71484	12.45913	0.0321095	0.18130437	3.0916990	21	10 27.1	19.7
151444 2002 GR_{45}	15.0	X	236.27825	118.48268	8.50943	7.69124	0.1786822	0.17981186	3.1087837	21	9 23.7	19.6
151445 2002 GW_{49}	14.8	X	309.87469	12.08572	331.34942	18.26696	0.0500363	0.16951295	3.2334598	21	7 17.2	19.4
151446 2002 GU_{53}	15.5	X	239.37984	102.65087	107.76004	2.02003	0.1913055	0.18787172	3.0192225	21	—	—
151447 2002 GZ_{54}	15.5	X	221.61823	22.83560	178.96289	1.39835	0.1324273	0.18550907	3.0448036	21	12 11.8	20.2
151448 2002 GS_{77}	14.9	X	135.93019	64.88198	152.56411	10.62004	0.0640216	0.17673161	3.1448014	21	10 9.3	19.7
151449 2002 GY_{77}	15.1	X	220.97850	237.76726	265.13001	3.76341	0.0911467	0.17884924	3.1199285	21	10 3.6	19.7
151450 2002 GC_{86}	14.7	X	40.66533	163.37128	155.17880	10.49625	0.0703216	0.17497976	3.1657565	21	10 21.6	19.1
151451 2002 GB_{101}	15.7	X	254.03057	149.16858	20.15865	2.45441	0.1020434	0.18742362	3.0240328	21	12 14.1	19.8
151452 2002 GX_{101}	15.1	X	177.12255	336.71521	171.00111	15.47580	0.1660689	0.17229120	3.1986053	21	8 23.8	20.5
151453 2002 GT_{102}	16.1	X	306.34777	122.66098	6.66183	2.32331	0.2190139	0.19172706	2.9786109	21	12 30.8	19.2
151454 2002 GP_{104}	14.7	X	230.13613	310.03310	182.45018	15.88483	0.0303048	0.17516236	3.1635560	21	10 11.1	19.2
151455 2002 GL_{105}	15.1	X	226.13349	115.48370	108.18785	10.54221	0.0922895	0.18989317	2.9977574	21	—	—
151456 2002 GH_{106}	15.1	X	219.98123	93.26301	130.53645	12.38722	0.1093038	0.18781119	3.0198711	21	—	—
151457 2002 GX_{106}	15.1	X	311.97170	268.83139	152.53491	12.02573	0.0726111	0.18010813	3.1053734	21	10 26.2	19.3
151458 2002 GV_{108}	15.0	X	251.15856	280.03876	154.71401	16.52615	0.0521339	0.17150475	3.2083761	21	8 20.9	19.6
151459 2002 GS_{109}	14.9	X	192.35436	114.30986	55.78216	21.27989	0.2241909	0.17879871	3.1205164	21	10 11.6	20.5
151460 2002 GZ_{110}	15.1	X	217.67136	298.98438	178.84667	14.25977	0.1901899	0.17440981	3.1726496	21	8 21.9	20.4
151461 2002 GB_{113}	14.7	X	68.84251	143.59440	138.31605	10.95344	0.1507114	0.17344208	3.1844399	21	10 24.1	19.4
151462 2002 GJ_{119}	14.7	X	308.99972	324.42964	69.15664	9.65799	0.0460271	0.17464890	3.1697534	21	9 19.9	19.1
151463 2002 GS_{121}	15.2	X	197.77683	299.52663	205.55712	11.27350	0.1234482	0.17638167	3.1489596	21	9 8.8	20.3
151464 2002 GE_{128}	15.5	X	82.99146	341.91221	325.41396	0.10929	0.1144151	0.18007055	3.1058055	21	12 1.1	20.2
151465 2002 GX_{140}	15.8	X	94.36834	62.34991	158.99494	1.67571	0.0738333	0.16942507	3.2345778	21	8 25.7	20.3
151466 2002 GL_{150}	15.7	X	214.36826	142.27260	7.21733	5.77866	0.0212235	0.17806988	3.1290253	21	10 12.5	20.3
151467 2002 GK_{153}	15.2	X	181.82844	93.69750	95.17318	10.57706	0.1642988	0.17879829	3.1205212	21	10 22.1	20.5
151468 2002 GT_{154}	16.0	X	178.04502	131.86913	59.62167	4.89771	0.1432570	0.18043973	3.1015677	21	10 19.2	21.0
151469 2002 GX_{154}	15.2	X	291.22170	352.99400	153.07915	11.14801	0.0910662	0.19048808	2.9915127	21	—	—
151470 2002 GL_{160}	14.9	X	268.85897	245.23955	178.44181	26.21226	0.2414733	0.17667851	3.1454315	21	7 31.1	20.0
151471 2002 GD_{161}	14.7	X	54.87630	165.72126	129.90092	9.66563	0.0698327	0.17330085	3.1861699	21	10 12.2	19.2
151472 2002 GJ_{167}	15.0	X	192.16423	253.16252	262.06024	4.38798	0.1028830	0.17631472	3.1497566	21	9 17.0	19.9
151473 2002 GP_{168}	15.5	X	169.35346	356.41037	218.56899	3.39490	0.1108195	0.17937615	3.1138158	21	11 7.1	20.4
151474 2002 HZ_{2}	14.4	X	355.84681	264.80357	79.12304	7.39816	0.1722127	0.17183937	3.2042097	21	9 24.4	18.0
151475 2002 HF_{11}	14.4	X	292.58178	303.73715	156.15000	22.78934	0.0861188	0.18302916	3.0722451	21	11 16.9	18.9
151476 2002 HE_{13}	16.4	X	72.87777	31.53599	127.48383	24.93860	0.0460631	0.36218540	1.9491657	21	5 1.3	19.0
151477 2002 HG_{16}	15.3	X	243.43747	63.09395	58.22803	2.27715	0.1242981	0.17992131	3.1075227	21	10 1.2	19.9
151478 2002 JR	15.3	X	169.94963	99.79617	168.64716	7.88323	0.1195503	0.18280133	3.0747972	21	—	—
151479 2002 JL_{4}	14.4	X	133.96363	126.16474	137.38176	27.32273	0.2335361	0.17614979	3.1517224	21	12 9.2	20.3
151480 2002 JR_{4}	16.4	X	172.51105	323.52956	164.87719	21.97588	0.0859846	0.37386419	1.9083593	21	8 1.8	19.0
151481 2002 JV_{9}	14.3	X	52.80055	180.56300	121.12912	23.03605	0.0994624	0.17087847	3.2162106	21	10 26.9	19.2
151482 2002 JM_{10}	15.0	X	143.21411	86.49807	154.09135	16.50292	0.2084279	0.17714800	3.1398716	21	11 18.1	20.6
151483 2002 JH_{16}	17.0	X	109.63796	109.76415	88.82242	23.31449	0.0563470	0.37124722	1.9173169	21	9 6.7	19.8
151484 2002 JP_{16}	14.9	X	179.79466	76.55904	97.73056	11.87156	0.0322697	0.17647922	3.1477990	21	10 8.4	19.7
151485 2002 JX_{17}	14.9	X	185.68365	289.96494	234.95745	4.02006	0.1093244	0.17477340	3.1682479	21	9 22.5	20.0
151486 2002 JM_{22}	14.8	X	227.09588	124.64686	40.50148	18.09263	0.0991219	0.18121917	3.0926680	21	11 6.6	19.3
151487 2002 JU_{22}	15.3	X	153.37797	124.29884	119.35219	2.31510	0.1353334	0.17925412	3.1152289	21	11 25.8	20.3
151488 2002 JG_{23}	14.8	X	167.74393	29.83379	209.84055	12.38071	0.1422942	0.18049600	3.1009231	21	12 3.9	19.9
151489 2002 JE_{30}	14.8	X	134.92080	20.26241	216.93824	4.45269	0.1220004	0.17483860	3.1674602	21	10 31.4	19.9
151490 2002 JL_{45}	15.4	X	173.65386	168.19682	32.69934	6.06159	0.0957972	0.17792378	3.1307380	21	10 25.8	20.2
151491 2002 JU_{46}	14.5	X	93.27504	287.90588	347.30609	7.34617	0.1660567	0.17328996	3.1863033	21	11 5.9	19.5
151492 2002 JS_{58}	14.8	X	220.40163	297.09431	242.12557	15.55776	0.2076061	0.18072050	3.0983545	21	11 4.8	19.8
151493 2002 JE_{68}	16.9	X	155.52271	53.22305	65.54224	22.79535	0.0802121	0.36704117	1.9319366	21	6 24.2	19.3
151494 2002 JU_{68}	14.6	X	208.60932	166.87801	53.46265	15.97969	0.1382447	0.18666841	3.0321836	21	12 18.2	19.4
151495 2002 JM_{69}	13.9	X	72.93676	226.89253	54.00103	18.36196	0.1939519	0.17347614	3.1840231	21	11 1.1	18.7
151496 2002 JC_{72}	14.9	X	178.13569	29.50009	163.57889	10.99786	0.1653629	0.17711375	3.1402764	21	10 21.5	20.2
151497 2002 JD_{78}	14.8	X	113.14866	305.40910	16.38051	6.28009	0.1769261	0.18346415	3.0673870	21	—	—
151498 2002 JM_{78}	15.2	X	222.25852	133.92014	20.57007	5.03246	0.0967918	0.18010606	3.1053973	21	10 20.1	19.9
151499 2002 JL_{97}	14.9	X	176.25214	113.15718	165.67589	16.21743	0.2411547	0.18474898	3.0531491	21	—	—
151500 2002 JE_{108}	14.5	X	162.78320	46.82115	172.54742	27.77494	0.1292398	0.17887753	3.1195996	21	11 9.4	19.9
151501 2002 JW_{119}	14.7	X	126.16281	49.12812	172.31813	23.51230	0.0699376	0.17382153	3.1798039	21	10 2.5	19.5
151502 2002 JK_{123}	15.0	X	107.63910	113.51034	166.80800	14.79738	0.0963513	0.17735902	3.1373806	21	11 25.5	20.0
151503 2002 JA_{125}	15.3	X	144.13859	303.11824	260.17843	3.90297	0.1278643	0.17413000	3.1760475	21	9 28.5	20.4
151504 2002 KQ_{9}	14.7	X	106.45877	109.61699	154.91886	18.93969	0.1496662	0.17182952	3.2043322	21	11 11.8	20.0
151505 2002 LG_{37}	16.2	X	153.63257	54.93888	237.95434	6.06379	0.1599026	0.28161014	2.3051747	21	—	—
151506 2002 LV_{57}	16.2	X	102.02234	75.25694	266.30426	2.55661	0.2502241	0.27765428	2.3270183	21	—	—
151507 2002 MK_{1}	16.4	X	131.22777	91.51694	148.96563	23.36910	0.0661721	0.37732288	1.8966795	21	12 4.5	19.3
151508 2002 NW_{33}	16.9	X	97.82140	32.10004	290.80380	4.05794	0.2417463	0.27578044	2.3375473	21	—	—
151509 2002 NK_{48}	17.0	X	99.54728	234.24096	113.27576	3.28930	0.2367000	0.27782964	2.3260390	21	—	—
151510 2002 NW_{59}	17.6	X	98.48823	178.75890	213.95575	1.52525	0.2207121	0.28342346	2.2953320	21	1 1.1	19.5
151511 2002 PL_{22}	16.8	X	137.53689	45.40344	282.81369	5.58597	0.1361733	0.28191090	2.3035350	21	—	—
151512 2002 PW_{31}	17.4	X	87.39644	197.52423	166.26049	1.06668	0.2343730	0.27724495	2.3293082	21	—	—
151513 2002 PW_{44}	16.1	X	140.33033	302.11181	90.22135	6.44476	0.2177790	0.28358543	2.2944580	21	3 2.3	19.4
151514 2002 PG_{52}	17.0	X	164.59241	138.09869	119.84741	6.86738	0.0610245	0.27701215	2.3306130	21	—	—
151515 2002 PD_{61}	16.8	X	345.59203	91.09827	160.34096	23.98077	0.0645810	0.35486422	1.9758831	21	4 18.1	19.0
151516 2002 PN_{78}	16.6	X	109.40806	172.62284	73.68250	3.47519	0.1443332	0.26822090	2.3812645	21	10 30.7	20.2
151517 2002 PQ_{113}	15.2	X	78.37603	90.99003	318.25944	20.98335	0.3274348	0.27436993	2.3455519	21	1 11.1	16.8
151518 2002 PE_{133}	17.4	X	49.96253	125.24167	162.38433	3.57595	0.2491270	0.26565594	2.3965677	21	11 1.0	20.5
151519 2002 QG_{36}	16.2	X	143.92297	195.67842	197.36090	5.05055	0.1615015	0.28654201	2.2786477	21	2 23.3	19.4
151520 2002 RL_{1}	16.9	X	217.12973	56.22800	256.30739	4.66048	0.1925597	0.29034073	2.2587287	21	1 24.9	20.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
151521 2002 RB_{2}	16.8	X	275.41777	37.02701	333.82244	6.20052	0.1564441	0.30399748	2.1905646	21	6 12.7	19.6
151522 2002 RM_{17}	16.9	X	264.59824	182.50570	170.18776	3.47030	0.1977377	0.30086008	2.2057672	21	4 30.6	19.9
151523 2002 RG_{28}	16.1	X	145.93810	190.53558	184.34237	7.99238	0.1708466	0.28205982	2.3027241	21	2 3.3	19.4
151524 2002 RZ_{45}	16.7	X	188.98313	23.68901	15.38060	4.65934	0.1488943	0.29511671	2.2342933	21	4 18.2	19.9
151525 2002 RA_{50}	17.4	X	9.70913	177.87961	136.29064	3.69892	0.2292637	0.31206802	2.1526324	21	10 9.8	18.7
151526 2002 RU_{62}	16.8	X	89.38646	199.90237	205.16013	2.61295	0.2426615	0.27686543	2.3314363	21	1 7.7	18.6
151527 2002 RN_{67}	16.4	X	65.56678	184.42034	234.82268	6.83651	0.2116666	0.27725969	2.3292256	21	—	—
151528 2002 RZ_{68}	17.3	X	318.43060	145.67750	257.01480	1.58929	0.0834751	0.31488998	2.1397522	21	10 30.4	19.1
151529 2002 RR_{80}	17.1	X	84.96622	22.72419	317.52495	1.51880	0.1845064	0.27309889	2.3528239	21	—	—
151530 2002 RO_{93}	16.8	X	261.11506	45.90156	305.26920	6.18455	0.1900673	0.29982742	2.2108290	21	4 21.5	20.1
151531 2002 RU_{99}	16.4	X	147.76754	4.86617	21.58265	6.12164	0.1692753	0.28527765	2.2853754	21	2 24.2	19.6
151532 2002 RN_{101}	16.4	X	186.39831	161.17499	209.00419	6.04472	0.1500409	0.28827187	2.2695228	21	3 8.4	19.8
151533 2002 RB_{103}	17.1	X	358.23213	9.74046	28.92154	2.00740	0.1690457	0.26524658	2.3990328	21	—	—
151534 2002 RM_{104}	16.8	X	258.31035	174.66327	202.77096	4.83878	0.1765409	0.29972277	2.2113436	21	5 29.8	19.8
151535 2002 RS_{110}	17.0	X	289.28931	239.88949	132.54854	5.41317	0.1370335	0.30564207	2.1826996	21	7 9.9	19.2
151536 2002 RR_{122}	16.5	X	237.20352	284.22126	78.46940	7.36266	0.1945797	0.29746239	2.2225319	21	4 19.2	20.0
151537 2002 RD_{132}	16.2	X	169.37503	10.99402	283.18986	6.23088	0.0989060	0.27897453	2.3196708	21	—	—
151538 2002 RH_{139}	16.4	X	177.01832	199.99387	91.09351	6.57396	0.1818088	0.28165237	2.3049444	21	—	—
151539 2002 RB_{180}	17.4	X	141.12026	291.21152	170.79617	2.76816	0.1210495	0.29506215	2.2345687	21	5 21.7	20.4
151540 2002 SR_{14}	17.0	X	86.68114	201.15110	96.42417	2.19859	0.0937691	0.31909532	2.1209109	21	12 14.9	19.6
151541 2002 SE_{19}	17.0	X	149.42325	247.80766	158.51480	2.79183	0.1468833	0.28919233	2.2647045	21	3 19.1	19.9
151542 2002 SH_{25}	15.8	X	90.68507	302.12938	181.59659	24.15654	0.2012433	0.28919408	2.2646953	21	5 1.7	18.7
151543 2002 SF_{35}	17.0	X	185.20668	52.33447	10.63359	6.52398	0.0947944	0.29638555	2.2279120	21	5 13.9	20.2
151544 2002 SE_{47}	16.9	X	346.35331	137.78195	261.18113	1.26665	0.1937767	0.26409333	2.4060119	21	12 13.6	18.7
151545 2002 SH_{47}	16.8	X	209.67058	78.52693	350.62874	4.78123	0.0784266	0.30168977	2.2017212	21	6 23.3	19.8
151546 2002 SE_{49}	16.9	X	126.35419	343.64740	54.28561	6.16967	0.1606080	0.28371733	2.2937468	21	2 13.4	19.8
151547 2002 SF_{54}	17.2	X	334.62534	36.01620	317.52200	5.84429	0.1179578	0.31130531	2.1561470	21	9 8.6	18.8
151548 2002 SE_{58}	17.0	X	212.12556	258.87202	124.46150	6.31797	0.1457724	0.29429749	2.2384377	21	4 24.1	20.4
151549 2002 TA_{5}	16.7	X	166.13766	230.96487	159.21994	5.69604	0.1216398	0.28819738	2.2699138	21	3 14.0	19.8
151550 2002 TV_{8}	16.5	X	105.14356	185.02362	152.61692	2.92330	0.1635563	0.27409871	2.3470989	21	—	—
151551 2002 TR_{24}	16.6	X	221.28527	190.64954	199.75811	6.60676	0.1519759	0.29663728	2.2266514	21	5 10.5	19.8
151552 2002 TU_{27}	17.7	X	335.15132	35.32747	303.37420	0.22018	0.1887736	0.30756781	2.1735791	21	8 11.9	18.8
151553 2002 TW_{27}	16.9	X	167.06178	14.79890	16.78918	5.84135	0.1481548	0.28841402	2.2687770	21	3 19.6	20.0
151554 2002 TF_{31}	17.3	X	162.71581	328.43048	54.13212	1.68076	0.2169654	0.28668438	2.2778932	21	3 9.1	20.7
151555 2002 TJ_{43}	16.0	X	215.98231	161.51042	214.80934	8.54166	0.1286972	0.24065506	2.5598001	21	4 20.1	19.9
151556 2002 TO_{52}	16.0	X	117.80384	321.04085	40.64105	6.06326	0.1696843	0.27564012	2.3383405	21	—	—
151557 2002 TM_{74}	15.9	X	185.59731	138.98853	214.41271	4.73870	0.1885662	0.28713102	2.2755304	21	2 16.6	19.4
151558 2002 TB_{75}	16.2	X	138.07950	332.11474	64.19145	7.15613	0.1832012	0.28587177	2.2822079	21	3 1.3	19.4
151559 2002 TP_{77}	16.6	X	336.37759	137.81290	285.23520	1.95473	0.1524199	0.26401946	2.4064606	21	12 24.9	18.6
151560 2002 TW_{82}	17.3	X	318.23795	34.20984	281.68672	1.27216	0.1911265	0.30244324	2.1980629	21	5 21.1	19.2
151561 2002 TE_{88}	16.3	X	77.90486	186.85429	221.69356	8.11522	0.1892709	0.27488813	2.3426031	21	—	—
151562 2002 TW_{100}	17.0	X	290.95245	113.80842	216.39197	3.83206	0.1876169	0.30136457	2.2033048	21	4 30.9	19.6
151563 2002 TM_{135}	16.9	X	235.99443	257.16494	122.18130	6.96354	0.1774549	0.29710588	2.2243095	21	5 10.6	20.3
151564 2002 TZ_{144}	16.9	X	96.13434	304.49211	132.37352	10.03558	0.1910217	0.28253375	2.3001483	21	2 28.4	19.2
151565 2002 TH_{168}	16.6	X	192.26179	235.75119	152.51693	6.61369	0.1001439	0.29380079	2.2409599	21	4 8.9	19.7
151566 2002 TJ_{169}	16.0	X	217.90036	173.43054	226.15755	14.25387	0.1775510	0.24537389	2.5268753	21	5 20.0	20.0
151567 2002 TW_{184}	17.2	X	270.21574	69.86986	276.97258	1.82836	0.1197968	0.29995486	2.2102027	21	5 7.2	19.8
151568 2002 TP_{189}	16.1	X	137.49850	52.06598	274.44365	5.94223	0.1439544	0.27808822	2.3245969	21	—	—
151569 2002 TU_{205}	16.5	X	128.99070	237.76987	239.12464	6.52921	0.0609082	0.29412567	2.2393094	21	5 19.3	19.1
151570 2002 TO_{215}	16.5	X	265.86073	247.11699	119.76822	7.91722	0.2093261	0.29847827	2.2174861	21	5 21.6	19.7
151571 2002 TC_{223}	17.1	X	286.50740	333.41870	26.61871	6.50041	0.0978456	0.30227207	2.1988927	21	6 23.3	19.7
151572 2002 TX_{223}	16.5	X	199.62377	225.06946	197.77965	3.65193	0.1446443	0.24382887	2.5375385	21	6 2.7	20.5
151573 2002 TM_{225}	15.8	X	207.78721	309.96882	55.87616	6.34247	0.1159926	0.23725153	2.5842233	21	4 2.2	19.8
151574 2002 TD_{226}	16.5	X	191.94453	226.16160	159.42500	6.25408	0.1713444	0.28920740	2.2646258	21	4 6.9	20.0
151575 2002 TD_{239}	16.7	X	60.95190	150.79621	261.79107	2.74831	0.2352404	0.27380599	2.3487714	21	—	—
151576 2002 TJ_{242}	16.2	X	260.94128	290.45885	90.58339	9.15468	0.1082714	0.30047411	2.2076557	21	6 16.1	18.7
151577 2002 TX_{246}	16.4	X	241.29096	287.43440	53.16824	1.91371	0.0874381	0.24021791	2.5629047	21	4 4.4	20.2
151578 2002 TQ_{249}	16.7	X	308.05493	60.58229	237.67446	2.51923	0.1402497	0.29678571	2.2259089	21	4 16.1	19.0
151579 2002 TQ_{255}	17.2	X	232.42407	10.73976	19.84954	2.59951	0.1702592	0.29710005	2.2243386	21	5 19.5	20.4
151580 2002 TJ_{257}	16.8	X	24.86769	328.15239	115.19211	2.90982	0.2520236	0.27168121	2.3610018	21	—	—
151581 2002 TG_{264}	16.4	X	186.61691	141.95760	236.56944	5.04707	0.1473471	0.28826974	2.2695339	21	3 18.9	19.8
151582 2002 TD_{273}	17.2	X	221.27187	57.44905	340.29520	7.07128	0.0385059	0.29811321	2.2192960	21	5 24.4	20.1
151583 2002 TL_{280}	15.7	X	292.47654	137.93974	283.25382	5.71707	0.1136512	0.25669817	2.4520023	21	9 24.9	18.5
151584 2002 TS_{297}	17.0	X	39.79349	245.62008	219.23337	4.82679	0.2013197	0.27662498	2.3327872	21	—	—
151585 2002 UO_{9}	16.9	X	110.68002	219.77735	209.42498	1.90700	0.1476561	0.28232410	2.3012868	21	3 1.5	19.5
151586 2002 UK_{15}	16.2	X	119.35688	34.29452	97.77413	7.94245	0.0527642	0.24115691	2.5562476	21	5 30.8	19.6
151587 2002 UT_{19}	16.7	X	87.62604	309.10304	89.70776	7.85972	0.1129640	0.27522054	2.3407165	21	—	—
151588 2002 UG_{23}	17.1	X	60.38300	38.78858	26.50051	3.46786	0.1796944	0.27537992	2.3398133	21	—	—
151589 2002 UK_{40}	15.6	X	196.79213	343.93532	77.37615	14.80568	0.1048892	0.24203062	2.5500920	21	5 30.1	19.4
151590 Fan	16.2	X	217.35831	113.79662	111.41982	7.58686	0.0621635	0.27145947	2.3622873	21	—	—
151591 2002 VW_{7}	16.6	X	77.31395	122.51888	304.32076	6.09722	0.0821661	0.27905907	2.3192022	21	—	—
151592 2002 VX_{11}	16.1	X	157.03578	82.28736	44.60639	7.16097	0.2019475	0.24145677	2.5541308	21	7 16.9	20.4
151593 2002 VL_{22}	16.9	X	148.91000	153.86679	234.93956	2.74580	0.1520924	0.28403550	2.2920335	21	2 22.8	20.1
151594 2002 VL_{31}	16.4	X	343.93618	253.64424	223.09797	7.19078	0.1240377	0.26893060	2.3770732	21	—	—
151595 2002 VA_{34}	16.7	X	336.61030	295.30240	59.40654	3.98592	0.2142547	0.30671678	2.1775979	21	9 19.4	17.6
151596 2002 VM_{34}	15.9	X	17.65283	307.08592	71.63833	9.14714	0.2505651	0.26272003	2.4143891	21	—	—
151597 2002 VZ_{36}	16.9	X	215.73528	216.21695	144.46297	3.92604	0.1671653	0.29138080	2.2533505	21	3 27.3	20.3
151598 2002 VL_{37}	17.0	X	173.04949	49.08210	305.53271	3.97628	0.1578053	0.28362987	2.2942183	21	2 6.0	20.2
151599 2002 VK_{40}	16.7	X	151.05619	234.32652	161.89136	6.90097	0.1461371	0.28407861	2.2918017	21	3 7.9	19.6
151600 2002 VG_{44}	16.6	X	107.23326	226.01670	187.82385	6.52910	0.0947584	0.28021164	2.3128383	21	1 24.8	19.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
151601 2002 VJ_{47}	16.9	X	264.66873	231.50204	132.37670	2.55436	0.2922070	0.24635010	2.5201954	21	5 8.7	20.9
151602 2002 VX_{47}	17.1	X	85.11814	274.80476	170.25706	2.58005	0.1605962	0.27917954	2.3185350	21	2 14.5	19.4
151603 2002 VG_{51}	16.6	X	90.04988	22.43480	92.94328	5.84320	0.1072150	0.28639865	2.2794080	21	4 2.6	19.1
151604 2002 VC_{61}	16.6	X	113.78858	180.32649	241.17228	4.98351	0.1085634	0.28310933	2.2970296	21	2 14.9	19.5
151605 2002 VJ_{61}	16.6	X	157.82743	321.75068	88.69484	7.37075	0.1462706	0.28810571	2.2703953	21	4 6.5	19.9
151606 2002 VU_{61}	16.7	X	231.90430	329.97830	353.80853	2.88776	0.1806571	0.28892786	2.2660863	21	2 22.5	20.3
151607 2002 VV_{70}	16.8	X	205.52312	290.42441	79.27877	5.53095	0.1737163	0.29090615	2.2558010	21	3 31.1	20.3
151608 2002 VA_{73}	16.8	X	45.14379	323.78655	105.43914	4.53933	0.1292243	0.27302339	2.3532577	21	—	—
151609 2002 VZ_{74}	17.1	X	85.29885	266.29600	142.59834	3.75262	0.0861828	0.27668462	2.3324520	21	—	—
151610 2002 VU_{79}	16.5	X	59.04002	321.03788	93.49410	6.93222	0.1365144	0.27265472	2.3553785	21	—	—
151611 2002 VY_{80}	16.4	X	144.20038	176.66139	197.04875	5.80976	0.1352461	0.28006352	2.3136537	21	1 26.7	19.4
151612 2002 VR_{84}	15.1	X	35.31470	22.27266	108.91099	21.43686	0.1554901	0.27320856	2.3521943	21	1 16.1	16.9
151613 2002 VT_{91}	16.2	X	207.09885	83.97790	255.23214	5.65765	0.1317627	0.28535272	2.2849746	21	2 16.2	19.6
151614 2002 VS_{93}	16.3	X	79.09255	165.98578	274.96988	5.42550	0.0772768	0.27911003	2.3189199	21	1 17.9	18.6
151615 2002 VR_{97}	16.5	X	136.64803	147.27766	19.21678	3.63941	0.0578713	0.29965809	2.2116618	21	8 11.6	19.3
151616 2002 VW_{99}	16.5	X	42.45727	140.48271	66.15201	6.40288	0.0861184	0.29222010	2.2490339	21	5 23.4	18.6
151617 2002 VQ_{100}	16.7	X	136.49321	121.09436	303.19627	4.88263	0.1342019	0.28587926	2.2821680	21	3 23.9	19.8
151618 2002 VZ_{102}	16.5	X	187.47102	337.67456	357.14860	5.14711	0.1380019	0.28282881	2.2985482	21	1 26.9	19.8
151619 2002 VB_{105}	16.9	X	7.50817	54.80813	358.66438	4.22883	0.2202448	0.26512088	2.3997911	21	—	—
151620 2002 VK_{108}	16.3	X	148.91710	336.97337	48.16060	10.35665	0.1424113	0.28222043	2.3018503	21	2 24.1	19.6
151621 2002 VH_{114}	17.1	X	26.53313	298.77628	136.90253	1.64315	0.1633234	0.27011499	2.3701196	21	—	—
151622 2002 VX_{121}	16.9	X	277.89243	18.21918	315.57996	6.86726	0.2431505	0.29781157	2.2207943	21	4 9.6	20.2
151623 2002 VF_{123}	16.7	X	214.46937	29.85139	323.95212	5.58838	0.1566163	0.28910642	2.2651531	21	3 14.5	20.3
151624 2002 WS_{6}	16.5	X	322.44973	139.35331	37.59635	7.87966	0.0529476	0.27560984	2.3385118	21	—	—
151625 2002 WP_{7}	17.3	X	31.54782	241.97045	176.94731	1.11351	0.1641768	0.26898918	2.3767281	21	—	—
151626 2002 WQ_{9}	16.6	X	163.55948	228.89394	123.05884	3.17275	0.2335858	0.28201919	2.3029452	21	1 31.9	20.1
151627 2002 WB_{12}	16.1	X	306.58326	346.77716	131.65587	12.92768	0.1445779	0.26297981	2.4127988	21	—	—
151628 2002 WA_{17}	16.4	X	10.72969	304.92499	177.36903	7.25892	0.1936192	0.27180795	2.3602678	21	—	—
151629 2002 WP_{17}	16.5	X	7.02863	270.15280	179.68205	9.16989	0.1809926	0.26878581	2.3779268	21	—	—
151630 2002 WO_{19}	16.8	X	357.85486	10.25735	220.45568	2.80945	0.0310506	0.28922101	2.2645547	21	4 12.4	19.3
151631 2002 XN	16.7	X	150.60210	254.52020	134.10830	7.41885	0.1205215	0.28328092	2.2961019	21	2 23.3	19.8
151632 2002 XC_{4}	16.6	X	357.96198	137.36644	165.77609	4.71895	0.2170150	0.30241730	2.1981887	21	8 8.4	17.5
151633 2002 XL_{7}	16.4	X	140.46566	56.92525	330.82334	5.75511	0.1277164	0.28270393	2.2992250	21	2 10.5	19.3
151634 2002 XX_{19}	17.0	X	208.05681	54.07142	4.58159	3.30257	0.0263001	0.29520951	2.2338251	21	6 8.4	19.7
151635 2002 XY_{22}	17.3	X	194.09050	94.00595	279.82228	2.42911	0.1890473	0.28832365	2.2692510	21	3 22.3	20.9
151636 2002 XO_{27}	17.0	X	41.44179	188.73328	245.91230	2.23690	0.1269417	0.27189559	2.3597606	21	—	—
151637 2002 XN_{28}	16.3	X	277.01655	118.92393	264.26748	2.97225	0.1050180	0.24603451	2.5223501	21	7 12.1	19.5
151638 2002 XV_{28}	17.0	X	202.05418	47.25348	326.81511	5.38364	0.2080109	0.28895744	2.2659316	21	3 28.9	20.7
151639 2002 XF_{31}	16.6	X	163.20032	27.45370	9.09415	3.20561	0.0930047	0.28501313	2.2867892	21	3 16.7	19.7
151640 2002 XC_{33}	16.8	X	315.01830	5.41500	343.03665	3.03574	0.1840908	0.30229159	2.1987980	21	7 10.9	18.5
151641 2002 XM_{38}	15.1	X	201.71002	168.15077	294.59427	8.99086	0.0554201	0.19071366	2.9891532	21	7 28.9	19.5
151642 2002 XG_{49}	16.0	X	70.95852	81.47573	80.19517	5.76252	0.1367928	0.23355456	2.6114226	21	5 17.6	19.0
151643 2002 XH_{54}	16.6	X	115.29670	320.87483	121.29975	3.10153	0.1360673	0.28342890	2.2953027	21	3 26.4	19.4
151644 2002 XB_{57}	16.2	X	38.96578	162.45646	259.69084	5.02953	0.1740121	0.26889220	2.3772995	21	—	—
151645 2002 XR_{60}	16.5	X	10.99855	313.26771	256.57668	6.56712	0.0300028	0.28636627	2.2795799	21	3 30.6	19.2
151646 2002 XA_{66}	15.0	X	10.09386	98.96432	48.44407	23.60237	0.2763270	0.26951037	2.3736630	21	—	—
151647 2002 XC_{66}	16.0	X	321.00636	68.16937	83.00021	2.85816	0.1638401	0.26345731	2.4098826	21	—	—
151648 2002 XQ_{70}	15.9	X	6.73528	177.16639	275.17510	6.56410	0.1526654	0.26771982	2.3842348	21	—	—
151649 2002 XL_{71}	17.1	X	356.61337	355.41340	141.55173	6.86573	0.2001081	0.27071628	2.3666088	21	—	—
151650 2002 XN_{81}	16.2	X	16.62287	11.20816	41.78459	4.96793	0.1247563	0.26342831	2.4100594	21	—	—
151651 2002 XS_{88}	16.5	X	38.11311	198.61902	303.82095	2.13188	0.1019230	0.27800143	2.3250807	21	2 7.6	18.5
151652 2002 XF_{93}	16.6	X	348.16658	135.90605	335.67341	1.83836	0.1687965	0.26643384	2.3919006	21	—	—
151653 2002 XB_{94}	16.9	X	77.68539	75.68942	344.21556	6.23201	0.1015591	0.27615025	2.3354599	21	—	—
151654 2002 XU_{95}	17.3	X	81.07351	130.76543	260.58850	0.40795	0.1878551	0.27347936	2.3506412	21	—	—
151655 2002 XZ_{103}	16.3	X	352.36685	204.68079	251.14814	5.07897	0.1487408	0.26509866	2.3999252	21	—	—
151656 2002 XC_{115}	17.5	X	350.85802	25.32266	99.21194	6.80596	0.2034650	0.27040874	2.3684028	21	—	—
151657 Finkbeiner	16.6	X	101.19487	47.80278	124.36004	10.05916	0.1636221	0.23113529	2.6296132	21	7 15.3	20.2
151658 2002 YK	16.0	X	358.14088	329.34895	88.76887	8.49038	0.2392469	0.26101227	2.4249089	21	—	—
151659 Egerszegi	15.8	X	278.94238	187.10340	103.33209	15.45011	0.1059610	0.22855635	2.6493572	21	3 20.2	19.9
151660 2002 YC_{6}	15.5	X	340.56898	86.89899	84.61223	14.26293	0.0924863	0.22133353	2.7066862	21	1 1.9	19.0
151661 2002 YF_{8}	16.0	X	107.63858	351.34512	64.69789	4.53852	0.1763687	0.27828222	2.3235164	21	2 15.2	18.6
151662 2002 YZ_{8}	16.8	X	35.70244	122.04179	316.10490	1.74760	0.1607511	0.26946156	2.3739496	21	—	—
151663 2002 YF_{10}	16.1	X	69.62866	244.63482	278.86151	2.65126	0.1402136	0.23035514	2.6355471	21	5 17.4	19.1
151664 2002 YJ_{12}	16.3	X	205.22243	100.57011	264.67638	3.66426	0.0680010	0.28525184	2.2855133	21	3 19.6	19.4
151665 2002 YP_{19}	16.8	X	88.56804	165.09022	281.39630	1.63711	0.1712528	0.27880039	2.3206366	21	2 24.3	19.2
151666 2002 YS_{19}	16.3	X	37.95759	29.39893	89.15995	7.08536	0.1032849	0.27501907	2.3418595	21	1 4.2	18.6
151667 2002 YO_{23}	16.4	X	109.48205	8.52993	117.03953	2.83870	0.0737299	0.23261368	2.6184596	21	5 12.4	19.9
151668 2002 YY_{26}	16.8	X	129.30980	279.29710	115.93588	2.25505	0.1715074	0.27769420	2.3267953	21	2 13.7	19.8
151669 2002 YH_{27}	16.8	X	8.47378	133.17018	264.98053	1.26455	0.1958015	0.26039278	2.4287534	21	—	—
151670 2002 YL_{27}	16.5	X	10.82838	54.83333	92.97593	1.65676	0.1501999	0.27253782	2.3560520	21	—	—
151671 2002 YC_{29}	16.5	X	285.81791	94.25907	81.23401	3.11217	0.1119620	0.26348657	2.4097042	21	—	—
151672 2003 AU	16.4	X	77.65058	275.82511	152.73320	6.86088	0.1007833	0.27334164	2.3514307	21	1 2.1	18.9
151673 2003 AQ_{5}	16.0	X	301.57531	238.02527	244.63064	1.69360	0.1529196	0.25818421	2.4425845	21	—	—
151674 2003 AQ_{6}	16.4	X	316.85799	113.68499	313.45059	1.84795	0.1619651	0.25436824	2.4669525	21	11 16.7	18.5
151675 2003 AW_{7}	17.0	X	17.77656	264.50463	189.80894	2.30367	0.1730109	0.26647024	2.3916827	21	—	—
151676 2003 AG_{10}	16.6	X	101.29116	301.17814	157.29201	6.36655	0.1667273	0.28234288	2.3011848	21	4 4.2	19.3
151677 2003 AB_{12}	16.8	X	23.20930	124.83374	346.47754	1.73757	0.1021539	0.27085028	2.3658281	21	—	—
151678 2003 AF_{16}	16.4	X	133.32581	233.58480	148.02903	5.17600	0.1677128	0.27458445	2.3443300	21	1 30.7	19.4
151679 2003 AE_{20}	15.8	X	301.47231	3.86073	141.86650	8.83158	0.1574897	0.20958270	2.8069355	21	—	—
151680 2003 AZ_{23}	16.2	X	1.02674	40.39638	78.07739	4.47146	0.1839411	0.26899220	2.3767104	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
151681 2003 AR_{25}	16.8	X	54.40491	82.44036	332.18449	1.96998	0.1637129	0.26955200	2.3734186	21	—	—
151682 2003 AQ_{28}	16.4	X	339.61056	354.82520	150.13708	1.71214	0.1331219	0.26701519	2.3884275	21	—	—
151683 2003 AE_{29}	16.5	X	24.66938	131.82393	292.24238	1.86659	0.1590166	0.26430358	2.4047357	21	—	—
151684 2003 AZ_{30}	16.8	X	14.89461	282.43303	133.48961	2.69230	0.2078182	0.26213220	2.4179972	21	—	—
151685 2003 AU_{35}	15.6	X	300.43365	282.98078	243.78894	7.51872	0.1978722	0.21162036	2.7888881	21	—	—
151686 2003 AP_{39}	16.0	X	11.14695	331.32157	141.75648	7.30673	0.0814969	0.26776966	2.3839390	21	—	—
151687 2003 AK_{42}	16.4	X	323.03950	276.98084	201.67252	2.89579	0.1496573	0.26074734	2.4265512	21	—	—
151688 2003 AQ_{46}	15.8	X	294.94508	151.30353	329.40922	4.81426	0.1247062	0.20557365	2.8433113	21	12 11.6	19.3
151689 2003 AM_{49}	16.7	X	113.96506	143.61047	322.63651	4.04079	0.2002590	0.22993274	2.6387739	21	5 7.2	20.5
151690 2003 AH_{53}	16.7	X	54.21961	59.05590	1.46298	1.92234	0.1812857	0.26882816	2.3776771	21	—	—
151691 2003 AL_{53}	15.9	X	74.69456	47.43223	97.34519	9.71818	0.0649508	0.22812931	2.6526625	21	4 23.3	19.4
151692 2003 AU_{53}	16.4	X	10.30291	54.32066	337.23547	6.08683	0.1325746	0.25785668	2.4446524	21	—	—
151693 2003 AH_{55}	16.2	X	208.42914	187.89684	3.63708	4.65106	0.1567451	0.25281312	2.4770588	21	11 22.2	19.8
151694 2003 AS_{58}	16.7	X	62.93274	62.82167	53.82157	3.23888	0.2030487	0.27533315	2.3400783	21	2 28.7	18.4
151695 2003 AB_{64}	16.5	X	127.24777	71.24813	339.88941	6.62142	0.0999168	0.27861973	2.3216396	21	2 21.7	19.3
151696 2003 AX_{65}	16.1	X	356.12256	123.79435	359.08950	8.35155	0.0611212	0.26724848	2.3870374	21	—	—
151697 Paolobattaini	16.8	X	296.05599	221.22381	306.03397	1.64020	0.1541041	0.26164819	2.4209783	21	—	—
151698 2003 AH_{84}	16.1	X	24.94095	149.12694	259.91395	1.45675	0.1843539	0.26135747	2.4227733	21	—	—
151699 2003 AA_{94}	15.5	X	274.42931	356.30975	74.67556	14.23747	0.1546704	0.24663712	2.5182398	21	9 14.9	18.9
151700 2003 BQ_{17}	16.7	X	316.27696	238.35103	267.95032	0.36898	0.1312005	0.26250259	2.4157222	21	—	—
151701 2003 BK_{18}	17.1	X	284.73289	197.83094	263.08627	0.77206	0.1455560	0.25267924	2.4779336	21	11 6.2	19.6
151702 2003 BL_{20}	14.6	X	48.41589	88.78791	132.37522	14.33632	0.1825573	0.17538895	3.1608307	21	7 11.2	18.6
151703 2003 BU_{21}	15.8	X	327.72087	156.82905	246.31453	7.45457	0.3323787	0.25470242	2.4647942	21	10 30.9	16.6
151704 2003 BH_{28}	15.5	X	264.74242	92.84170	163.27756	7.38436	0.2112088	0.26707723	2.3880576	21	—	—
151705 2003 BE_{30}	15.1	X	45.11241	102.32192	124.55578	9.98214	0.1769712	0.17851975	3.1237663	21	7 12.7	18.9
151706 2003 BT_{33}	15.6	X	57.18354	334.63399	303.56910	13.12472	0.1431028	0.24381491	2.5376353	21	9 30.5	19.2
151707 2003 BQ_{34}	16.9	X	24.82920	65.59228	347.20348	2.51439	0.1181380	0.26245772	2.4159975	21	—	—
151708 2003 BV_{34}	16.5	X	292.68222	99.88570	84.93518	3.43107	0.1411769	0.26438852	2.4042206	21	—	—
151709 2003 BN_{37}	16.0	X	110.43221	270.74624	349.34061	8.25419	0.0674176	0.24399634	2.5363772	21	11 5.2	19.7
151710 2003 BL_{39}	15.9	X	164.30129	225.61148	131.08124	2.93277	0.2265231	0.27531770	2.3401658	21	2 7.7	19.4
151711 2003 BM_{39}	16.9	X	245.03765	259.77112	166.90932	3.60198	0.0470220	0.24166905	2.5526348	21	8 6.5	20.2
151712 2003 BH_{40}	16.9	X	332.18549	154.07305	352.85172	0.94379	0.1246902	0.26578369	2.3957996	21	—	—
151713 2003 BK_{40}	15.6	X	8.57323	183.50108	120.93937	15.51824	0.0614105	0.24141011	2.5544598	21	8 22.1	18.7
151714 2003 BM_{43}	16.1	X	244.52225	328.54385	281.47078	6.43887	0.0915905	0.26832798	2.3806310	21	—	—
151715 2003 BZ_{46}	16.0	X	305.51832	125.06679	95.19004	10.68630	0.1859678	0.26900348	2.3766439	21	—	—
151716 2003 BN_{48}	15.6	X	293.44688	287.17777	334.50674	5.94698	0.1548832	0.27247889	2.3563916	21	2 8.8	18.8
151717 2003 BR_{49}	16.7	X	345.34982	37.87197	57.98775	2.28401	0.1308100	0.26157336	2.4214400	21	—	—
151718 2003 BL_{53}	16.0	X	123.77161	255.27738	307.28664	4.37900	0.0746529	0.24081672	2.5586544	21	9 8.8	19.7
151719 2003 BN_{56}	15.9	X	63.52445	319.63649	302.09759	14.52150	0.0857693	0.24284056	2.5444186	21	9 8.0	19.5
151720 2003 BR_{58}	16.7	X	294.02119	301.98365	230.58651	1.63797	0.1543485	0.26206923	2.4183846	21	—	—
151721 2003 BT_{58}	16.1	X	116.62360	148.93315	69.35311	5.45011	0.1643182	0.23958009	2.5674514	21	10 2.7	20.2
151722 2003 BU_{61}	17.1	X	13.83991	321.05932	180.68796	2.09793	0.1517216	0.26959212	2.3731831	21	—	—
151723 2003 BX_{63}	15.9	X	255.06878	283.54418	153.09963	12.10835	0.3464609	0.24424310	2.5346686	21	7 24.4	20.2
151724 2003 BU_{65}	16.0	X	97.29485	39.07052	343.64175	11.40018	0.2689587	0.27064292	2.3670364	21	—	—
151725 2003 BF_{73}	16.4	X	308.56228	65.64397	34.65069	2.54103	0.1472720	0.25636012	2.4541573	21	12 21.3	18.7
151726 2003 BN_{76}	15.9	X	285.17538	40.42098	6.55674	12.44658	0.1964242	0.24625168	2.5208669	21	8 17.6	19.0
151727 2003 BQ_{80}	15.8	X	132.21365	176.52992	333.18669	6.83808	0.1427320	0.23260091	2.6185555	21	7 19.1	19.8
151728 2003 BQ_{81}	16.0	X	80.60054	63.77868	328.35201	4.27846	0.2352913	0.26756291	2.3851669	21	—	—
151729 2003 BY_{83}	16.1	X	125.57431	76.96881	141.97554	13.71721	0.1251146	0.24144513	2.5542128	21	10 11.9	20.2
151730 2003 BJ_{84}	15.9	X	100.05983	247.92532	2.50436	5.54423	0.1259763	0.24475030	2.5311656	21	10 19.7	19.6
151731 2003 BA_{86}	16.1	X	269.67021	316.69802	270.26685	6.70118	0.0649591	0.26896406	2.3768761	21	—	—
151732 2003 BG_{87}	16.3	X	124.59718	151.51892	140.74143	5.81267	0.1771773	0.25285321	2.4767970	21	—	—
151733 2003 BA_{88}	16.6	X	10.48251	69.50505	139.80557	2.64465	0.1495097	0.27844135	2.3226311	21	3 27.5	18.3
151734 2003 BH_{89}	15.9	X	46.42903	222.67634	165.21654	2.29800	0.0747207	0.20310507	2.8663037	21	—	—
151735 2003 BO_{90}	16.5	X	342.40704	31.30830	52.76910	2.90628	0.1444152	0.25807976	2.4432435	21	—	—
151736 2003 CQ	15.6	X	168.60720	73.51529	165.86794	15.09273	0.1477014	0.25239369	2.4798023	21	12 15.0	19.8
151737 2003 CV_{6}	16.1	X	98.43560	63.15904	128.98786	12.10651	0.1315781	0.23428785	2.6059707	21	8 3.9	19.8
151738 2003 CB_{7}	16.5	X	321.71164	88.63375	100.32064	2.33811	0.1198007	0.26700506	2.3884879	21	—	—
151739 2003 CU_{9}	16.2	X	81.66247	155.64653	53.98936	4.70192	0.1384881	0.23239143	2.6201288	21	8 9.3	19.7
151740 2003 CO_{13}	15.1	X	286.89439	97.26890	96.07078	12.33160	0.1352873	0.20917902	2.8105456	21	—	—
151741 2003 CT_{14}	16.9	X	280.95353	298.22997	165.50889	6.24807	0.0842480	0.25174400	2.4840669	21	11 14.5	19.8
151742 2003 CW_{19}	16.7	X	215.37219	163.96279	283.92037	6.08615	0.2670295	0.24101748	2.5572334	21	7 13.0	21.2
151743 2003 CE_{21}	15.7	X	55.48571	49.42930	137.44935	14.28071	0.1178134	0.22536227	2.6743315	21	5 29.3	19.2
151744 2003 CA_{22}	15.8	X	106.91151	116.50955	152.61619	12.96780	0.1569549	0.24008807	2.5638286	21	11 25.0	20.1
151745 2003 DG_{3}	16.0	X	170.47119	157.99226	334.01997	14.64728	0.0396058	0.23705498	2.5856515	21	8 4.9	19.6
151746 2003 DQ_{7}	15.8	X	86.37192	309.33485	333.97524	14.14010	0.0882100	0.24579948	2.5239577	21	11 6.6	19.7
151747 2003 DM_{11}	16.8	X	295.55678	219.01067	16.31418	1.11133	0.1442652	0.26883112	2.3776597	21	1 9.8	20.0
151748 2003 DY_{16}	16.6	X	222.97048	299.98473	141.57278	5.27246	0.2410995	0.24104897	2.5570106	21	7 12.7	20.9
151749 2003 DF_{18}	16.1	X	51.94227	20.22777	5.90500	10.42042	0.2181824	0.26196070	2.4190525	21	—	—
151750 2003 DR_{18}	16.7	X	238.75260	167.87566	30.54623	2.05998	0.1234592	0.25648311	2.4533728	21	—	—
151751 2003 DT_{18}	16.6	X	230.05407	308.19947	111.46525	3.20524	0.2210070	0.23965712	2.5669012	21	6 22.9	20.8
151752 2003 DZ_{23}	15.6	X	101.27674	204.92418	94.14796	6.12561	0.0798008	0.19560015	2.9391603	21	12 10.0	20.0
151753 2003 EX	15.6	X	70.68265	253.70603	12.48643	9.76290	0.1060811	0.23936332	2.5690013	21	10 4.1	18.8
151754 2003 EF_{2}	16.7	X	346.99118	38.12713	145.16205	1.74198	0.1218778	0.27001846	2.3706844	21	1 9.9	19.3
151755 2003 EG_{2}	15.5	X	313.09581	28.71675	330.42882	13.58639	0.1212963	0.23938773	2.5688266	21	8 3.7	18.5
151756 2003 EN_{3}	16.4	X	126.41797	114.82936	49.74211	4.18085	0.1123611	0.23468758	2.6030108	21	7 29.7	20.2
151757 2003 EG_{6}	16.0	X	124.69914	178.19454	19.90840	6.36376	0.1148119	0.23828479	2.5767473	21	9 10.9	19.9
151758 2003 EO_{6}	16.5	X	229.77482	284.41970	179.82247	4.81690	0.1556986	0.24344835	2.5401820	21	8 24.5	20.1
151759 2003 EF_{9}	16.0	X	191.59467	309.35402	178.46106	10.32435	0.0353114	0.23863978	2.5741913	21	8 20.7	19.7
151760 2003 EH_{10}	15.8	X	137.62830	195.80257	0.21703	9.03711	0.0996530	0.23870633	2.5737128	21	9 19.4	19.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
151761 2003 EG_{11}	15.3	X	31.22784	262.46397	351.79425	11.61653	0.2167630	0.22699771	2.6614710	21	8 8.0	18.1
151762 2003 EP_{11}	16.4	X	151.77966	286.29772	206.92159	3.95284	0.1569583	0.23391340	2.6087511	21	7 16.1	20.5
151763 2003 ET_{12}	15.8	X	12.20915	294.51301	178.27673	14.14480	0.1599777	0.21081827	2.7959574	21	—	—
151764 2003 EX_{12}	15.7	X	74.39995	246.91648	329.80751	10.21298	0.1254038	0.23130458	2.6283300	21	8 6.8	19.1
151765 2003 EB_{19}	15.9	X	237.65796	237.42219	160.77486	7.46522	0.0778895	0.23308932	2.6148963	21	6 16.4	19.7
151766 2003 EL_{19}	16.3	X	151.53747	233.94029	307.85493	4.62999	0.0699689	0.24011663	2.5636253	21	9 13.0	19.9
151767 2003 EY_{20}	15.7	X	27.31911	183.10950	160.96667	8.93310	0.0558545	0.24435008	2.5339287	21	11 13.8	19.0
151768 2003 EX_{22}	15.2	X	98.86086	166.79780	359.30086	14.82561	0.0568853	0.22935407	2.6432105	21	6 18.6	19.1
151769 2003 EK_{24}	16.4	X	230.31171	12.22565	103.54715	2.75562	0.1503417	0.24283185	2.5444795	21	9 12.1	20.2
151770 2003 EO_{24}	16.3	X	107.27799	139.06868	77.86967	4.68842	0.1378903	0.23602920	2.5931376	21	9 18.8	20.2
151771 2003 EV_{25}	16.2	X	98.35364	5.68237	209.87597	3.96524	0.0812277	0.23579340	2.5948661	21	8 26.9	19.8
151772 2003 EW_{25}	15.8	X	165.44817	322.94372	155.41065	13.89722	0.0371801	0.23228464	2.6209318	21	7 7.1	19.7
151773 2003 EK_{26}	16.3	X	165.08569	1.72321	136.18101	4.91065	0.1197925	0.23598129	2.5934885	21	8 4.1	20.1
151774 2003 EZ_{29}	16.4	X	290.23357	251.36982	2.60281	2.13094	0.1784497	0.27022386	2.3694830	21	1 24.0	19.9
151775 2003 EV_{34}	15.8	X	52.04620	295.91479	319.41870	8.49076	0.1719926	0.23135810	2.6279247	21	9 1.3	19.1
151776 2003 EZ_{41}	15.9	X	125.05952	97.21877	174.82411	6.71255	0.2353886	0.24253537	2.5465527	21	12 14.6	20.4
151777 2003 EW_{46}	15.8	X	258.80880	349.46537	352.27545	4.48069	0.1109354	0.22580797	2.6708113	21	4 22.5	19.7
151778 2003 EE_{47}	15.7	X	192.08494	43.58212	71.93430	17.91582	0.1358419	0.23545279	2.5973680	21	8 6.8	20.1
151779 2003 EP_{47}	16.4	X	192.77991	282.09618	205.33230	6.99221	0.1477022	0.24048021	2.5610407	21	8 15.6	20.5
151780 2003 EX_{47}	14.4	X	356.13295	47.80746	307.29961	14.29030	0.1103087	0.24218809	2.5489864	21	10 5.0	17.5
151781 2003 EJ_{49}	16.0	X	169.45922	234.89451	183.90220	11.05607	0.0634079	0.22387411	2.6861698	21	4 27.8	19.9
151782 2003 ES_{53}	15.3	X	129.86699	68.90045	147.20343	14.14718	0.1383209	0.23509747	2.5999844	21	10 12.4	19.5
151783 2003 EJ_{58}	15.9	X	62.70697	304.12011	203.64734	8.13678	0.1335457	0.22065703	2.7122155	21	4 14.8	19.1
151784 2003 EL_{58}	14.7	X	209.74061	200.66057	64.21083	12.95622	0.1412001	0.20394374	2.8584403	21	—	—
151785 2003 FZ_{3}	14.8	X	214.21060	37.73491	20.68792	22.38598	0.0464071	0.22775192	2.6555920	21	6 13.3	19.1
151786 2003 FL_{13}	16.2	X	220.89527	108.16993	205.08974	2.81462	0.0793247	0.21381314	2.7697875	21	2 9.7	20.4
151787 2003 FS_{18}	16.4	X	77.58140	60.46014	180.57479	4.78492	0.1678141	0.23346563	2.6120856	21	9 17.2	20.0
151788 2003 FJ_{24}	16.2	X	112.47371	345.93221	258.65885	1.48855	0.0521422	0.24110026	2.5566480	21	10 19.6	19.8
151789 2003 FH_{32}	16.2	X	175.65122	177.89513	155.81815	2.69515	0.0481640	0.20974773	2.8054629	21	1 17.2	20.1
151790 2003 FL_{32}	16.0	X	45.90143	143.27336	31.10102	4.03656	0.0349140	0.22117657	2.7079666	21	4 14.4	19.5
151791 2003 FE_{33}	16.7	X	82.34228	93.45878	24.41833	5.28424	0.1166113	0.21977222	2.7194903	21	4 2.6	20.1
151792 2003 FH_{33}	15.7	X	114.43357	262.02801	163.50170	6.05065	0.0829063	0.21604963	2.7506396	21	3 3.4	19.4
151793 2003 FB_{42}	15.6	X	86.24317	171.84153	2.00478	13.68381	0.0918824	0.22701174	2.6613613	21	6 17.3	19.4
151794 2003 FX_{42}	15.5	X	29.81512	206.74252	5.32790	11.18914	0.1572884	0.22281501	2.6946751	21	5 15.9	18.5
151795 2003 FJ_{45}	16.6	X	167.01189	37.70277	157.26145	3.37171	0.1822146	0.24211325	2.5495117	21	10 18.1	20.7
151796 2003 FZ_{47}	15.9	X	220.61618	173.05967	209.01111	3.43977	0.0969213	0.22394944	2.6855674	21	5 5.4	20.0
151797 2003 FP_{54}	15.3	X	307.78305	49.77519	179.68602	13.07222	0.0777098	0.21127912	2.7918901	21	2 3.2	19.4
151798 2003 FV_{54}	16.3	X	89.66496	116.28973	46.52731	10.93393	0.1582975	0.22495206	2.6775817	21	6 16.9	20.0
151799 2003 FN_{56}	15.9	X	13.61298	294.04457	357.87588	6.90369	0.1259333	0.23320491	2.6140321	21	8 16.8	18.6
151800 2003 FE_{57}	16.0	X	24.14305	244.39227	10.69846	9.53531	0.0391139	0.23075829	2.6324765	21	7 3.7	19.5
151801 2003 FK_{57}	15.7	X	85.94939	134.26999	115.84715	3.00638	0.0847013	0.23803904	2.5785205	21	9 30.3	19.2
151802 2003 FS_{57}	15.6	X	197.82584	63.85580	21.02957	22.33974	0.0431085	0.23145775	2.6271704	21	7 4.7	19.8
151803 2003 FE_{58}	16.5	X	130.83476	346.36951	212.59211	4.71893	0.2203756	0.23690321	2.5867557	21	9 20.6	20.9
151804 2003 FV_{58}	16.5	X	117.87410	143.67670	32.08878	10.49357	0.1598274	0.23269559	2.6178451	21	8 11.8	20.7
151805 2003 FO_{61}	16.1	X	175.84285	14.70756	135.08157	5.79597	0.1256257	0.23773594	2.5807117	21	8 31.5	20.1
151806 2003 FO_{64}	15.6	X	337.55033	140.90787	45.41232	6.46149	0.0724350	0.21223843	2.7834710	21	1 23.6	19.3
151807 2003 FG_{75}	16.4	X	113.29983	275.75267	327.11557	4.59195	0.1464367	0.23818679	2.5774541	21	10 23.9	20.4
151808 2003 FX_{77}	15.7	X	158.59989	136.71756	28.94697	6.80051	0.0764530	0.23589364	2.5941310	21	9 4.7	19.5
151809 2003 FB_{79}	15.7	X	239.93094	305.63393	344.80850	6.26196	0.0429850	0.21157250	2.7893086	21	2 6.7	19.6
151810 2003 FF_{82}	15.3	X	115.13727	262.95446	171.48192	8.97896	0.1148071	0.21732569	2.7398619	21	3 20.5	19.0
151811 2003 FR_{82}	15.8	X	323.68334	127.00468	95.78483	5.29763	0.0465110	0.21337554	2.7735731	21	2 23.9	19.6
151812 2003 FE_{84}	15.3	X	246.05261	219.89556	182.57650	21.91506	0.0405138	0.23460485	2.6036228	21	7 5.2	19.4
151813 2003 FF_{87}	15.8	X	101.81410	18.51538	225.71821	10.92231	0.1270607	0.23790894	2.5794605	21	10 12.4	19.8
151814 2003 FP_{87}	15.6	X	27.65284	280.69344	346.27642	10.98514	0.1758785	0.22820766	2.6520552	21	8 12.9	18.4
151815 2003 FH_{89}	16.1	X	54.36966	350.96966	306.85290	4.02353	0.2612269	0.23518188	2.5993623	21	11 13.9	19.7
151816 2003 FF_{90}	15.2	X	349.38333	308.99779	336.47662	10.98872	0.3144090	0.22262176	2.6962344	21	5 27.4	17.3
151817 2003 FK_{93}	16.2	X	124.32789	358.56404	150.98988	6.08662	0.0802209	0.22800218	2.6536484	21	7 2.2	20.0
151818 2003 FW_{93}	15.7	X	96.99705	1.02366	162.86888	14.52875	0.0366652	0.22491847	2.6778483	21	6 12.2	19.6
151819 2003 FM_{94}	15.6	X	41.36088	57.31839	161.94581	12.08083	0.1367774	0.22386765	2.6862215	21	6 20.3	18.9
151820 2003 FW_{96}	15.3	X	243.48522	35.79318	357.41170	13.62246	0.1120929	0.22975266	2.6401526	21	6 10.8	19.5
151821 2003 FB_{97}	16.1	X	169.19970	160.44099	183.86668	5.75135	0.0750902	0.21064126	2.7975235	21	1 24.1	20.3
151822 2003 FW_{98}	16.0	X	170.14092	31.04464	116.87625	5.14375	0.1588209	0.23574600	2.5952139	21	8 23.4	20.2
151823 2003 FK_{99}	15.4	X	32.24175	198.81606	48.30031	10.06368	0.1665522	0.22601205	2.6692033	21	7 20.5	18.4
151824 2003 FD_{100}	15.4	X	338.44697	95.97922	147.69785	13.64794	0.1425404	0.21836759	2.7311398	21	4 1.9	18.7
151825 2003 FY_{101}	16.7	X	79.84518	169.46077	346.99438	2.76684	0.1485582	0.27806458	2.3247287	21	5 20.9	19.2
151826 2003 FE_{104}	16.3	X	131.25557	293.74200	227.27196	2.11314	0.1708961	0.23157656	2.6262717	21	8 1.8	20.5
151827 2003 FX_{106}	15.3	X	47.62473	64.43347	190.38447	11.29921	0.1571919	0.22788666	2.6545451	21	8 20.9	18.7
151828 2003 FL_{107}	15.3	X	57.53986	326.68648	190.79132	12.59166	0.1801202	0.21941912	2.7224071	21	4 28.4	18.3
151829 2003 FO_{108}	14.9	X	316.89029	227.70704	41.94033	5.26228	0.0718237	0.16718829	3.2633637	21	4 16.8	19.2
151830 2003 FN_{109}	16.3	X	116.92377	113.63955	58.59274	13.76103	0.2003875	0.22943178	2.6426136	21	8 10.3	20.7
151831 2003 FR_{115}	15.5	X	343.69847	97.40281	146.28679	11.65675	0.0972182	0.21943991	2.7222351	21	4 16.4	18.9
151832 2003 FN_{117}	16.4	X	134.20969	54.95148	102.28151	6.05764	0.0571489	0.23301003	2.6154894	21	7 22.9	20.1
151833 2003 FE_{120}	16.0	X	72.33553	10.63439	159.77697	5.54941	0.1653028	0.22555896	2.6727766	21	6 6.2	19.3
151834 Mongkut	15.4	X	220.75950	31.19394	2.25278	11.51137	0.0631590	0.22789663	2.6544677	21	5 18.1	19.4
151835 Christinarichey	15.6	X	139.55548	54.88071	161.40193	15.40388	0.1581753	0.23824740	2.5770169	21	10 22.2	19.9
151836 2003 FH_{126}	16.5	X	329.15144	172.55937	177.14339	2.09347	0.1119069	0.23761287	2.5816027	21	8 16.2	19.1
151837 2003 FP_{130}	16.2	X	295.33795	229.24904	35.66110	2.37958	0.0479330	0.21384358	2.7695247	21	3 11.5	19.9
151838 2003 GJ_{1}	16.0	X	71.75062	125.54420	36.36741	5.33793	0.2233475	0.22338209	2.6901127	21	6 1.6	19.3
151839 2003 GK_{3}	15.9	X	220.90849	169.57189	199.54179	6.03950	0.0323928	0.22283928	2.6944795	21	4 22.9	19.7
151840 2003 GF_{4}	15.5	X	34.23528	151.41020	16.73673	13.94015	0.1294259	0.21838830	2.7309671	21	3 26.6	18.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
151841 2003 GU_8	15.8	X	19.09101	321.15612	206.98926	8.91189	0.1719580	0.21520448	2.7578364	21	2 20.3	18.8
151842 2003 GT_9	15.9	X	134.76464	46.18643	164.71550	6.67063	0.0987659	0.23639207	2.5904832	21	10 6.1	19.7
151843 2003 GS_{12}	15.8	X	122.13297	323.94183	200.06168	13.35989	0.0658618	0.22963172	2.6410794	21	7 14.7	19.9
151844 2003 GP_{13}	16.4	X	192.92324	231.19564	37.68682	2.32578	0.0266694	0.20098866	2.8863900	21	—	—
151845 2003 GA_{15}	15.7	X	186.75345	95.46783	62.03465	13.49512	0.1835333	0.24107901	2.5567982	21	9 25.5	20.1
151846 2003 GH_{15}	15.6	X	193.15849	37.82243	125.15808	13.66243	0.0875180	0.24194705	2.5506791	21	10 12.9	19.6
151847 2003 GT_{17}	15.1	X	49.92053	313.21290	17.36632	6.21140	0.1266568	0.18841846	3.0133790	21	11 22.8	19.2
151848 2003 GD_{26}	15.9	X	313.34810	345.20284	4.94102	3.34065	0.0982193	0.23193600	2.6235576	21	7 22.9	19.0
151849 2003 GN_{29}	15.9	X	226.76818	260.53063	354.13615	2.54385	0.2153902	0.20104201	2.8858793	21	—	—
151850 2003 GK_{35}	16.0	X	219.19451	246.89862	78.14114	3.31288	0.0487165	0.21426058	2.7659301	21	2 25.4	19.9
151851 2003 GU_{36}	15.7	X	259.84472	11.04428	68.18365	12.19797	0.1637042	0.24276014	2.5449805	21	9 2.3	19.4
151852 2003 GX_{36}	15.9	X	225.17673	19.08670	65.75452	12.71628	0.1510819	0.23844478	2.5755946	21	7 29.2	20.0
151853 2003 GX_{42}	15.4	X	65.14628	50.14127	124.41118	14.03755	0.1960249	0.22483705	2.6784947	21	6 7.8	18.8
151854 2003 HT_2	16.0	X	54.88080	335.08315	197.50483	4.16664	0.1310579	0.22231744	2.6986943	21	5 6.7	18.9
151855 2003 HH_8	15.7	X	160.86126	7.01444	11.11045	7.40524	0.1923931	0.21480680	2.7612392	21	3 8.8	20.1
151856 2003 HC_9	15.9	X	67.82393	97.26912	23.26064	5.61287	0.0334511	0.21336988	2.7736222	21	3 7.8	19.5
151857 2003 HG_{11}	16.5	X	351.64759	22.85097	199.49483	1.38357	0.0139280	0.21933815	2.7230771	21	4 2.4	20.1
151858 2003 HD_{15}	15.8	X	25.86195	114.21215	147.56471	7.05415	0.0489452	0.22749312	2.6576057	21	7 14.7	19.2
151859 2003 HG_{23}	16.8	X	328.03843	164.54465	11.06074	2.86639	0.0227769	0.20909313	2.8113152	21	1 3.8	20.7
151860 2003 HD_{24}	16.0	X	208.42317	195.42015	81.20333	3.18629	0.0310934	0.20248732	2.8721304	21	—	—
151861 2003 HB_{27}	15.3	X	187.99955	242.33167	203.50313	12.52815	0.1791708	0.22762684	2.6565647	21	6 20.1	19.9
151862 2003 HD_{29}	15.1	X	24.30136	178.17303	23.17979	14.38162	0.1038629	0.21917870	2.7243975	21	4 20.0	18.1
151863 2003 HP_{38}	15.6	X	41.32803	340.28772	261.97890	14.50288	0.2003360	0.22707227	2.6608883	21	7 28.1	18.7
151864 2003 HO_{45}	16.0	X	127.84661	325.38981	207.98441	3.17341	0.1793698	0.23048559	2.6345525	21	8 14.4	20.1
151865 2003 HQ_{47}	16.1	X	277.88823	143.58577	136.26504	2.80560	0.1867875	0.21043870	2.7993185	21	2 20.1	20.4
151866 2003 HF_{48}	14.8	X	245.27752	242.61679	27.94794	15.31172	0.1220516	0.20481552	2.8503234	21	1 18.5	19.5
151867 2003 HO_{54}	15.2	X	9.83494	144.99998	51.67842	12.64555	0.0962664	0.21483332	2.7610120	21	3 28.5	18.6
151868 2003 HV_{54}	16.0	X	354.52908	48.84636	168.53876	2.92011	0.0848650	0.21723629	2.7406135	21	3 26.2	19.4
151869 2003 JZ	15.8	X	34.04240	3.86771	53.54472	6.89024	0.0793697	0.19751250	2.9201578	21	—	—
151870 2003 JG_2	15.7	X	166.04140	197.25488	106.53531	3.23927	0.0694251	0.19820835	2.9133192	21	—	—
151871 2003 JN_{12}	16.1	X	351.47948	128.91357	127.59345	3.30172	0.0527616	0.22095599	2.7097686	21	5 16.7	19.4
151872 2003 JD_{14}	15.6	X	315.62382	308.02045	321.84400	10.29795	0.3440498	0.21411521	2.7671819	21	2 25.3	19.3
151873 2003 KL_9	15.9	X	342.94599	300.79896	339.01549	6.35372	0.1594832	0.21942924	2.7223234	21	5 23.5	18.9
151874 2003 KQ_{17}	16.1	X	87.10634	90.65452	97.18565	2.96837	0.2216229	0.22603287	2.6690394	21	7 27.9	19.8
151875 2003 KC_{28}	16.4	X	51.79235	78.94098	84.49426	9.50949	0.1460927	0.21653338	2.7465414	21	4 24.7	19.6
151876 2003 NH_7	15.0	X	216.97180	299.80425	318.75203	12.20374	0.1305514	0.19311933	2.9642777	21	—	—
151877 2003 OU_9	14.5	X	135.84832	338.89783	292.43250	14.74715	0.0964156	0.18058827	3.0998668	21	12 10.8	19.5
151878 2003 PZ_4	15.5	X	125.63117	152.97648	135.39280	1.85478	0.1906624	0.18180295	3.0860439	21	12 24.2	20.6
151879 2003 RF_3	15.0	X	118.08153	193.22858	150.36138	2.54758	0.1023099	0.18390881	3.0624407	21	—	—
151880 2003 SF_{151}	14.5	X	138.34046	245.96062	32.30794	16.22574	0.0744916	0.17587619	3.1549902	21	12 18.0	19.5
151881 2003 SC_{209}	14.6	X	74.16293	126.17014	166.67297	21.73775	0.0851412	0.17284222	3.1918035	21	11 3.7	19.5
151882 2003 UW_{146}	17.0	X	236.22194	304.96044	91.73047	5.85028	0.1599829	0.31445578	2.1417215	21	6 2.1	20.0
151883 2003 WQ_{25}	12.9	X	205.39772	306.60130	76.47115	5.52365	0.0436293	0.08462515	5.1381065	21	5 3.2	19.9
151884 2003 WO_{40}	12.6	X	279.22778	261.93294	56.85174	15.27054	0.0360142	0.08364158	5.1783081	21	5 10.8	19.4
151885 2003 XY_{21}	16.8	X	116.85370	340.24559	99.26757	3.43953	0.1398643	0.29784183	2.2206439	21	3 23.8	19.4
151886 2003 YO_{13}	16.8	X	34.15012	193.50604	297.31924	15.98919	0.0817050	0.34634316	2.0081600	21	—	—
151887 2003 YY_{101}	16.7	X	56.23459	193.56185	249.58314	2.80198	0.1041123	0.28757248	2.2732010	21	—	—
151888 2003 YV_{117}	15.6	X	182.55209	351.43061	153.78009	28.04526	0.3370517	0.30824952	2.1703733	21	8 29.1	19.5
151889 2004 BG_3	16.1	X	305.90950	241.78938	308.28911	5.60703	0.0750036	0.28276664	2.2988851	21	—	—
151890 2004 BN_{80}	16.6	X	286.09425	290.54286	284.68919	2.85602	0.1332320	0.28206944	2.3026717	21	—	—
151891 2004 BF_{84}	15.1	X	14.01498	49.89140	156.83729	5.36132	0.1927603	0.17530062	3.1618924	21	4 19.1	18.4
151892 2004 BR_{91}	15.9	X	180.09968	8.14376	260.18203	4.04583	0.0211492	0.21935928	2.7229022	21	—	—
151893 2004 BU_{106}	16.5	X	12.22303	73.56285	107.44196	5.81144	0.0473963	0.29101444	2.2552413	21	2 22.2	18.9
151894 2004 CU_{24}	17.1	X	72.45310	203.55659	281.54383	4.86221	0.0792734	0.29162932	2.2520702	21	3 7.3	19.4
151895 2004 CN_{66}	16.8	X	352.72422	79.27710	92.85467	7.76596	0.0480097	0.28681041	2.2772259	21	1 10.1	19.3
151896 2004 DA_{16}	16.6	X	359.76865	92.45031	166.85701	4.50346	0.0966435	0.29738007	2.2229421	21	5 27.0	18.5
151897 2004 DK_{16}	16.6	X	311.53624	1.92561	164.19537	2.60759	0.1387051	0.27611608	2.3356526	21	—	—
151898 2004 DK_{33}	15.4	X	145.75753	89.34264	157.85056	15.53643	0.2294718	0.20271132	2.8700142	21	11 29.3	20.7
151899 2004 EP	16.4	X	169.46524	205.47265	112.62356	4.96279	0.1448257	0.27524019	2.3406051	21	—	—
151900 2004 EB_7	17.6	X	46.72322	209.17030	356.62060	3.40768	0.1054932	0.29571229	2.2312923	21	5 31.2	19.7
151901 2004 EZ_9	17.0	X	257.72206	326.93380	319.25630	1.97944	0.1649069	0.28400093	2.2922195	21	1 31.0	20.4
151902 2004 EK_{10}	16.9	X	162.13579	104.54782	340.28186	6.90328	0.0442576	0.29773885	2.2211559	21	5 12.7	19.8
151903 2004 EO_{13}	15.2	X	314.19121	91.08112	165.37230	13.56110	0.2418879	0.17148091	3.2086736	21	3 1.8	19.5
151904 2004 EZ_{20}	17.7	X	65.51734	11.75433	250.65772	0.69920	0.2087884	0.30506411	2.1854555	21	10 14.7	20.3
151905 2004 EE_{21}	17.3	X	321.39861	5.93884	164.98101	2.02104	0.1483817	0.27807316	2.3246808	21	—	—
151906 2004 EO_{27}	17.7	X	260.95727	313.08163	345.25359	1.16309	0.1756138	0.28626683	2.2801077	21	2 17.4	21.0
151907 2004 EE_{38}	16.9	X	27.67850	235.82008	1.42318	4.79605	0.1281109	0.29541749	2.2327765	21	6 17.4	18.7
151908 2004 EP_{38}	16.6	X	319.90462	152.29530	121.68007	3.42757	0.1862904	0.28919185	2.2647070	21	3 25.1	19.1
151909 2004 ET_{39}	16.9	X	66.01976	316.82714	314.81743	1.56922	0.1239464	0.30828581	2.1702030	21	10 15.9	19.4
151910 2004 EY_{39}	16.7	X	245.46168	25.73132	191.26012	1.89920	0.1598856	0.27267205	2.3552787	21	—	—
151911 2004 EW_{42}	16.5	X	121.71449	113.16212	124.31355	3.13926	0.1308934	0.25411917	2.4685642	21	10 29.7	20.2
151912 2004 EB_{43}	16.5	X	272.84428	221.32969	46.88994	3.65991	0.2077799	0.28112371	2.3078331	21	1 21.1	20.1
151913 2004 EN_{54}	16.7	X	66.27362	231.91142	18.29263	8.00339	0.0087884	0.30497731	2.1858702	21	8 30.7	19.2
151914 2004 EO_{54}	17.3	X	139.03975	114.60417	88.65702	1.45956	0.0824997	0.30898754	2.1669160	21	10 7.1	20.0
151915 2004 EM_{56}	16.2	X	357.27786	257.32276	348.08601	5.17178	0.0980590	0.29146018	2.2529414	21	4 26.2	18.2
151916 2004 EX_{57}	16.6	X	31.96363	163.66521	133.39080	3.53868	0.1859020	0.30606361	2.1806950	21	10 16.1	18.6
151917 2004 EY_{57}	16.7	X	64.75153	120.72374	108.18651	7.35669	0.0809629	0.30253799	2.1976040	21	8 5.6	19.0
151918 2004 EW_{66}	16.0	X	260.56740	105.82184	189.92616	4.64816	0.1389505	0.28323309	2.2963604	21	2 15.3	19.3
151919 2004 EJ_{74}	15.7	X	191.58083	44.26570	268.60596	3.81129	0.2663166	0.27531379	2.3401879	21	1 10.4	19.6
151920 2004 EN_{78}	16.0	X	104.42687	285.24118	31.29145	4.65803	0.1280984	0.26399303	2.4066212	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
151921 2004 EW_{86}	16.3	X	11.55355	332.12524	161.82833	6.48493	0.1729379	0.27966583	2.3158466	21	—	—
151922 2004 EY_{86}	15.9	X	90.06526	64.98589	92.95400	5.67268	0.0622670	0.23666182	2.5885143	21	5 28.1	19.1
151923 2004 EE_{94}	16.1	X	194.11875	332.92275	27.32642	9.02409	0.1812951	0.28627964	2.2800397	21	3 10.1	19.7
151924 2004 EW_{107}	17.7	X	347.82980	275.01283	38.48550	0.26811	0.0345653	0.30406909	2.1902206	21	8 2.0	19.9
151925 2004 FD_{6}	17.2	X	48.37831	194.97888	61.64111	1.47308	0.1137766	0.30358908	2.1925287	21	8 27.7	19.3
151926 2004 FR_{11}	16.7	X	335.79261	338.23636	267.15979	4.76977	0.1123319	0.28953999	2.2628912	21	3 16.2	19.3
151927 2004 FP_{15}	15.8	X	22.90845	335.79027	280.26567	12.09614	0.1092247	0.24110566	2.5566098	21	7 7.1	18.4
151928 2004 FG_{19}	17.0	X	227.18637	8.66596	259.54369	2.17886	0.1528225	0.27505174	2.3416741	21	—	—
151929 2004 FM_{20}	16.6	X	339.77194	34.69148	202.12838	4.98558	0.1069176	0.28838612	2.2689233	21	3 12.8	19.0
151930 2004 FA_{22}	14.9	X	331.61991	197.98598	24.36068	6.20425	0.1065523	0.16998298	3.2274963	21	3 5.9	19.2
151931 2004 FQ_{25}	16.5	X	347.65109	36.07319	204.69016	4.63097	0.1816084	0.28900498	2.2656831	21	3 20.9	18.4
151932 2004 FR_{26}	17.0	X	285.70409	168.21460	123.97802	1.05887	0.2069395	0.28694118	2.2765339	21	3 3.2	20.2
151933 2004 FZ_{26}	17.1	X	52.57869	323.06935	357.69555	5.25084	0.1453758	0.31365320	2.1453735	21	12 10.1	19.9
151934 2004 FT_{36}	16.2	X	316.27777	246.18944	44.90055	3.69793	0.1875983	0.29038547	2.2584967	21	4 12.4	18.6
151935 2004 FP_{44}	16.2	X	11.62865	108.68960	137.50250	4.98326	0.1551155	0.29431856	2.2383309	21	5 29.8	17.8
151936 2004 FB_{45}	16.5	X	24.94221	56.76634	150.77732	6.56901	0.1100092	0.29096231	2.2555107	21	4 25.2	18.5
151937 2004 FD_{53}	16.4	X	52.66125	336.04923	168.70707	6.53733	0.1075088	0.28606669	2.2811711	21	3 8.8	18.3
151938 2004 FB_{63}	17.1	X	31.95205	89.59199	157.26720	6.25208	0.0252487	0.29889971	2.2154012	21	6 30.7	19.6
151939 2004 FC_{64}	16.6	X	14.54971	105.87962	156.83707	3.47584	0.1219392	0.29629553	2.2283632	21	7 2.0	18.4
151940 2004 FO_{80}	17.2	X	226.18872	125.49418	125.89814	2.10767	0.1551841	0.27074364	2.3664493	21	—	—
151941 2004 FY_{87}	17.3	X	110.15813	116.52775	171.97579	3.98842	0.0840712	0.31723599	2.1291900	21	12 28.4	20.1
151942 2004 FL_{95}	17.1	X	46.62372	169.82886	98.29124	4.67648	0.1309577	0.30503238	2.1856071	21	9 16.8	19.3
151943 2004 FN_{95}	16.8	X	298.10638	243.88384	38.82538	6.12528	0.0874378	0.28940667	2.2635861	21	3 23.4	19.5
151944 2004 FL_{97}	17.1	X	106.51672	27.69874	141.21872	7.88227	0.0560463	0.29994370	2.2102576	21	7 2.6	19.8
151945 2004 FY_{106}	16.1	X	328.21301	336.78230	357.05793	7.84518	0.2172634	0.30063696	2.2068584	21	7 11.9	17.7
151946 2004 FR_{116}	16.6	X	270.30377	99.62598	128.26515	9.20951	0.1032228	0.27420652	2.3464836	21	—	—
151947 2004 FK_{117}	17.0	X	96.30432	288.66558	247.36053	3.23485	0.0103246	0.29974744	2.2112223	21	6 20.6	19.4
151948 2004 FA_{119}	16.5	X	310.82477	192.56899	60.01628	5.92640	0.2408878	0.28042170	2.3116832	21	2 5.7	19.7
151949 2004 FN_{125}	16.1	X	166.12858	218.23187	166.06618	2.25895	0.1099012	0.22919836	2.6444075	21	3 12.2	20.0
151950 2004 FM_{128}	16.5	X	85.07778	65.98214	185.24685	4.64116	0.1641398	0.30438600	2.1887001	21	10 17.2	19.3
151951 2004 FO_{131}	16.5	X	330.88364	37.87284	182.01968	5.33199	0.0514270	0.28304351	2.2973857	21	2 12.6	19.3
151952 2004 FO_{139}	17.3	X	29.33507	3.23309	252.22394	2.64534	0.1979000	0.29641585	2.2277602	21	8 1.5	18.9
151953 2004 FB_{145}	17.1	X	209.30363	188.05145	244.68307	2.98329	0.1681062	0.24562683	2.5251403	21	6 23.5	21.2
151954 2004 GO_{1}	16.4	X	277.66725	139.95092	131.52726	11.48012	0.1826789	0.27928307	2.3179620	21	1 30.9	19.8
151955 2004 GH_{3}	17.4	X	150.70174	192.79842	19.88679	1.29224	0.0766903	0.31142197	2.1556085	21	11 1.9	20.3
151956 2004 GV_{3}	16.2	X	125.25811	335.39485	8.03475	0.67877	0.1973406	0.26883674	2.3776265	21	—	—
151957 2004 GE_{14}	16.1	X	19.50852	1.61320	126.65231	6.54990	0.0103011	0.27609589	2.3357665	21	—	—
151958 2004 GR_{20}	15.6	X	317.32502	122.41555	53.81663	26.46771	0.1602576	0.21825112	2.7321114	21	—	—
151959 2004 GY_{20}	17.0	X	315.52219	186.40385	72.04684	5.79287	0.0843299	0.28570673	2.2830867	21	3 15.8	19.7
151960 2004 GJ_{24}	16.6	X	114.83529	338.41796	153.23890	7.66086	0.1237249	0.29353829	2.2422956	21	6 1.4	19.6
151961 2004 GK_{29}	17.0	X	341.68184	42.29890	185.01088	4.20295	0.0815424	0.28581167	2.2825278	21	3 6.9	19.6
151962 2004 GG_{30}	16.4	X	324.67877	24.08805	204.12195	6.62815	0.0670608	0.28240722	2.3008352	21	2 11.9	19.3
151963 2004 GT_{30}	16.4	X	16.88857	133.68781	49.21398	6.35284	0.0976312	0.28444228	2.2898478	21	3 4.2	18.7
151964 2004 GH_{31}	17.3	X	331.09276	216.31557	55.99341	3.25352	0.1525330	0.28971400	2.2619850	21	4 15.3	19.6
151965 2004 GT_{31}	16.0	X	92.75579	327.08976	23.69848	6.75420	0.1237875	0.26467120	2.4025084	21	—	—
151966 2004 GG_{33}	17.2	X	86.49539	168.50493	55.25335	1.55184	0.1187847	0.30167983	2.2017696	21	9 4.6	19.7
151967 2004 GT_{36}	16.3	X	125.02723	272.22995	236.28212	9.67199	0.2307453	0.24122228	2.5557857	21	7 14.2	20.6
151968 2004 GC_{37}	17.4	X	343.30374	330.19633	280.78669	2.23205	0.1352216	0.28928506	2.2642205	21	4 4.9	19.7
151969 2004 GE_{39}	16.5	X	99.65297	120.76876	91.22764	3.45933	0.1285370	0.30080353	2.2060436	21	9 6.7	19.3
151970 2004 GR_{50}	17.2	X	90.83131	199.13600	308.17768	1.99402	0.0960846	0.29295382	2.2452770	21	5 14.3	19.8
151971 2004 GX_{70}	16.8	X	61.57410	102.97714	18.74662	6.00266	0.1057967	0.28494275	2.2871658	21	2 21.3	19.0
151972 2004 GK_{73}	16.7	X	87.35971	174.87428	2.16919	3.63171	0.1050930	0.29543211	2.2327028	21	6 25.3	19.2
151973 2004 GQ_{75}	16.8	X	4.54373	338.30487	221.36746	3.29650	0.1131612	0.28493279	2.2872191	21	2 27.8	18.9
151974 2004 GM_{76}	16.6	X	41.51403	194.87807	46.58560	7.13891	0.0831312	0.29984324	2.2107512	21	7 17.9	18.9
151975 2004 HU_{1}	16.5	X	148.34671	256.68675	122.06856	6.64729	0.1159675	0.27924668	2.3181634	21	2 7.3	19.4
151976 2004 HW_{5}	16.5	X	2.95113	47.87047	191.66599	6.43359	0.0526453	0.28943418	2.2634427	21	5 4.5	18.9
151977 2004 HK_{6}	16.6	X	13.05011	38.49699	211.11742	7.52738	0.2220282	0.29088498	2.2559104	21	6 10.1	17.8
151978 2004 HO_{6}	16.2	X	299.70844	179.90507	61.67815	12.07734	0.0701525	0.27863111	2.3215764	21	2 3.3	19.4
151979 2004 HO_{9}	16.9	X	54.11084	283.09272	325.66459	2.11868	0.1407140	0.29899791	2.2149161	21	8 28.3	19.1
151980 2004 HR_{9}	16.9	X	82.06008	184.53847	24.25697	4.44242	0.1664563	0.29862929	2.2167384	21	8 16.2	19.6
151981 2004 HC_{11}	17.0	X	351.61987	352.35882	301.82039	5.21608	0.1909066	0.29767805	2.2214584	21	7 2.9	18.3
151982 2004 HW_{15}	15.5	X	256.24992	179.63648	91.70742	12.66330	0.1262009	0.22000329	2.7175858	21	1 24.8	19.8
151983 2004 HF_{16}	17.2	X	286.83036	226.22246	2.50432	2.25961	0.1962964	0.27512857	2.3412381	21	—	—
151984 2004 HY_{17}	16.7	X	319.77551	207.79686	337.38308	4.05815	0.0732174	0.27636292	2.3342616	21	—	—
151985 2004 HM_{19}	15.8	X	177.83849	28.69152	15.77524	9.11266	0.0493009	0.23358649	2.6111845	21	4 14.5	19.6
151986 2004 HD_{26}	16.7	X	287.11326	125.40942	95.64002	2.96104	0.1542800	0.27492964	2.3423673	21	—	—
151987 2004 HJ_{26}	16.9	X	344.92723	39.24489	173.98644	2.86684	0.1034787	0.28260051	2.2997860	21	2 17.2	19.2
151988 2004 HO_{28}	16.8	X	273.87618	165.73941	110.86108	4.70148	0.1819192	0.27905838	2.3192060	21	2 3.4	20.4
151989 2004 HT_{28}	16.3	X	99.58439	95.18781	112.57034	5.00478	0.1412540	0.24259402	2.5461422	21	8 29.2	19.9
151990 2004 HV_{43}	16.5	X	103.56248	294.18636	267.76031	3.71027	0.1626333	0.24427313	2.5344609	21	8 25.1	20.2
151991 2004 HO_{52}	16.8	X	206.94231	176.63609	63.18119	3.45375	0.1356076	0.26423444	2.4051551	21	—	—
151992 2004 HY_{52}	16.4	X	273.55092	197.11720	122.87599	7.56614	0.1433183	0.28833633	2.2691845	21	4 6.3	19.6
151993 2004 HX_{57}	16.7	X	21.15565	38.26245	250.45688	3.16168	0.1145235	0.24050427	2.5608699	21	8 21.2	19.6
151994 2004 HH_{61}	17.0	X	8.08548	23.67960	217.25666	2.09305	0.1211139	0.28973329	2.2618846	21	5 12.3	18.8
151995 2004 HQ_{61}	16.5	X	279.20272	177.45810	64.61936	7.90116	0.0759852	0.27572830	2.3378420	21	1 6.2	19.6
151996 2004 HM_{65}	16.5	X	351.10345	300.72043	357.70712	9.95873	0.1116995	0.29693679	2.2251538	21	7 15.7	18.6
151997 Bauhinia	17.5	X	285.49420	41.78099	235.54581	0.71503	0.1619970	0.28083267	2.3094273	21	2 16.9	20.6
151998 2004 JY_{13}	17.0	X	12.79866	220.75807	45.62882	0.21707	0.0589524	0.29500501	2.2348573	21	7 1.6	19.2
151999 2004 JD_{14}	17.0	X	187.60675	348.86369	282.95245	0.55041	0.1512553	0.26448947	2.4036088	21	—	—
152000 2004 JD_{18}	17.3	X	138.91073	252.74095	19.23562	2.22626	0.1949068	0.25666788	2.4521951	21	12 26.5	21.3