Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
28001 1997 WD_{41}	13.6	X	70.56139	243.16455	257.29061	7.79250	0.0528012	0.18287415	3.0739810	21	4 7.3	17.8
28002 1997 WO_{51}	13.7	X	35.11151	50.59217	95.67177	6.57384	0.1320677	0.17933399	3.1143038	21	3 7.3	17.4
28003 1997 WT_{52}	13.2	X	9.97934	151.53859	65.26165	12.45607	0.0700227	0.18441792	3.0568019	21	4 26.8	17.1
28004 Terakawa	14.5	X	9.92930	202.79682	246.11840	8.99271	0.1966688	0.21249068	2.7812677	21	—	—
28005 1997 XC	12.9	X	138.72275	245.84316	242.60675	13.60542	0.2484872	0.18433811	3.0576842	21	7 2.4	18.2
28006 1997 XM_{5}	14.3	X	131.21097	234.99341	275.57294	10.65172	0.1180131	0.27245616	2.3565227	21	7 15.0	17.5
28007 Galhassin	13.7	X	294.71875	280.05579	76.35298	10.92195	0.1565767	0.19473322	2.9478769	21	6 22.3	17.6
28008 1997 XR_{11}	12.9	X	222.63667	7.28000	304.89023	13.57394	0.1794878	0.22296070	2.6935011	21	2 6.3	17.3
28009 1997 YY_{1}	13.8	X	6.43880	326.18845	91.46232	3.74220	0.1418901	0.20644600	2.8352960	21	—	—
28010 1997 YE_{3}	13.5	X	65.82655	359.40911	123.24584	7.44444	0.0741947	0.17686675	3.1431993	21	3 18.9	17.7
28011 1997 YW_{3}	13.6	X	66.59439	74.96677	340.35208	7.88105	0.2368187	0.21509525	2.7587700	21	—	—
28012 1997 YH_{4}	13.7	X	29.81207	336.25791	59.27238	2.92337	0.0751188	0.20550174	2.8439746	21	—	—
28013 1997 YL_{4}	14.4	X	232.65691	305.16129	105.58932	3.91900	0.1309398	0.23698526	2.5861587	21	6 21.4	18.3
28014 1997 YS_{5}	13.3	X	179.41944	142.35654	307.22329	9.47864	0.2453326	0.18739294	3.0243629	21	6 18.9	18.7
28015 1997 YG_{9}	14.2	X	271.75964	199.57971	218.45462	1.35703	0.0480567	0.19644361	2.9307410	21	8 27.8	18.1
28016 1997 YV_{11}	12.5	X	106.18425	312.25567	125.19497	17.60765	0.1050075	0.17329092	3.1862915	21	3 23.1	17.3
28017 1997 YV_{13}	13.6	X	258.44361	131.70330	266.46364	4.98350	0.3889318	0.23571142	2.5954677	21	6 5.9	17.9
28018 1998 AG	13.0	X	292.13221	211.85312	140.24207	11.13139	0.0813405	0.18930475	3.0039663	21	6 25.3	17.2
28019 Warchal	15.5	X	342.95731	200.90536	223.32508	4.84453	0.1176263	0.29165514	2.2519373	21	—	—
28020 1998 BP_{5}	14.8	X	300.65415	47.72859	304.02605	5.91208	0.1299590	0.27386760	2.3484192	21	6 28.8	17.3
28021 1998 BP_{6}	13.6	X	152.59183	340.14340	96.27740	12.00237	0.2397905	0.18568644	3.0428643	21	5 16.5	18.9
28022 1998 BA_{9}	12.9	X	141.82966	110.44140	284.53674	8.03914	0.0921587	0.17478146	3.1681505	21	3 1.0	17.7
28023 1998 BF_{11}	13.8	X	180.58320	314.20845	107.55254	11.79173	0.1032746	0.18476744	3.0529458	21	5 18.9	18.7
28024 1998 BT_{14}	12.6	X	34.54146	325.22934	287.60176	8.90455	0.0555442	0.18630015	3.0361782	21	7 15.7	16.4
28025 1998 BD_{41}	14.9	X	235.03379	37.06264	36.37488	5.35428	0.3120170	0.23773941	2.5806866	21	7 8.5	19.4
28026 1998 CN_{1}	13.8	X	357.32624	180.10146	23.84217	5.24999	0.0510865	0.21727751	2.7402669	21	3 16.3	17.3
28027 1998 CC_{5}	14.7	X	284.45116	54.32388	318.85321	5.65141	0.1570020	0.27142152	2.3625075	21	6 30.7	17.5
28028 1998 DS_{8}	13.5	X	85.12356	103.81970	120.21730	3.02362	0.0598988	0.19519737	2.9432020	21	8 17.9	17.5
28029 1998 DW_{9}	12.3	X	342.22345	174.53688	246.26997	7.57013	0.1103304	0.15598711	3.4177759	21	11 29.8	16.6
28030 1998 DW_{12}	14.1	X	162.36956	299.55804	132.35644	4.14868	0.3164593	0.18415163	3.0597481	21	5 19.4	19.6
28031 1998 DX_{17}	14.2	X	257.06228	307.14452	73.49870	2.91929	0.0585701	0.22364824	2.6879781	21	6 19.2	17.8
28032 1998 DZ_{23}	13.9	X	22.12450	276.35836	206.80674	8.06654	0.1856957	0.21111016	2.7933797	21	—	—
28033 1998 EE_{9}	13.1	X	160.91710	89.22901	1.93133	9.00359	0.0437150	0.18322375	3.0700695	21	5 26.5	17.7
28034 1998 EU_{13}	14.1	X	118.04027	29.48541	36.70470	5.75799	0.1513198	0.21466188	2.7624818	21	3 20.5	18.0
28035 1998 FY_{1}	15.6	X	180.25168	357.75556	64.00480	3.81561	0.0712771	0.30380936	2.1914687	21	5 7.5	18.2
28036 1998 FZ_{26}	13.0	X	196.60915	106.11234	348.27744	9.05012	0.0608282	0.18396775	3.0617866	21	7 14.9	17.7
28037 Williammonts	15.5	X	286.49186	347.30809	118.68924	1.06046	0.1145327	0.28068488	2.3102379	21	11 27.9	17.7
28038 Nicoleodzer	16.0	X	234.04500	107.28528	349.85374	2.21714	0.1755891	0.27371591	2.3492867	21	8 20.6	19.3
28039 Mauraoei	14.4	X	271.65050	209.71801	80.21388	5.21731	0.1634336	0.29486460	2.2355667	21	2 19.1	17.6
28040 1998 FF_{80}	14.0	X	206.79980	229.93908	116.71832	5.61746	0.1269632	0.17046323	3.2214315	21	3 15.3	19.2
28041 1998 FQ_{87}	12.9	X	282.60269	240.82439	24.94708	13.03191	0.0725998	0.17016092	3.2252459	21	3 4.8	17.7
28042 Mayapatel	15.3	X	94.61248	16.34701	80.38454	5.79422	0.0874204	0.29946124	2.2126309	21	3 7.8	17.7
28043 Mabelwheeler	14.7	X	208.67548	43.92708	46.23846	6.70953	0.0357758	0.26897677	2.3768012	21	7 27.2	17.8
28044 1998 FD_{116}	14.1	X	322.75463	327.90570	330.71978	5.93266	0.1315363	0.26064263	2.4272010	21	5 14.3	16.9
28045 Johnwilkins	15.2	X	181.06936	306.54870	350.35796	6.20015	0.1232059	0.28504282	2.2866305	21	—	—
28046 1998 HB_{14}	13.9	X	204.58871	89.35424	85.72486	11.62345	0.0980382	0.27533694	2.3400568	21	11 11.3	17.2
28047 1998 HU_{90}	15.5	X	44.24441	219.09113	99.72997	4.48536	0.1932475	0.31250905	2.1506066	21	12 4.8	18.0
28048 Camilleyoke	15.4	X	78.78064	207.50025	152.67248	4.87216	0.1480074	0.27994742	2.3142933	21	—	—
28049 Yvonnealex	14.3	X	162.65735	217.29817	224.92744	8.24622	0.1546369	0.21738725	2.7393446	21	5 24.0	18.7
28050 Asekomeh	14.9	X	227.64316	264.69660	65.07820	4.45685	0.1827408	0.29250691	2.2475634	21	2 27.6	18.4
28051 1998 HS_{153}	14.6	X	191.29744	333.28336	308.64866	0.97284	0.0301204	0.19989374	2.8969206	21	—	—
28052 1998 KP_{1}	14.8	X	204.69878	119.96753	191.55732	1.23461	0.1791054	0.24474055	2.5312328	21	1 20.1	18.9
28053 1998 KE_{4}	14.2	X	144.63576	316.84585	194.02477	3.59094	0.0466179	0.22046952	2.7137532	21	7 24.7	18.2
28054 1998 KE_{50}	14.0	X	137.91543	197.72149	102.34386	13.42100	0.1431859	0.19239270	2.9717366	21	—	—
28055 1998 MX	14.1	X	182.20931	235.97697	86.55322	14.22682	0.1941822	0.24242848	2.5473011	21	1 15.9	18.4
28056 1998 MK_{5}	12.7	X	77.86201	265.98048	118.53266	13.83046	0.1809087	0.23120444	2.6290889	21	—	—
28057 1998 MM_{37}	13.5	X	119.59826	206.03660	121.87444	10.22983	0.0802938	0.18770092	3.0210537	21	—	—
28058 1998 NF	14.5	X	70.86926	163.64311	75.95448	3.54184	0.1368080	0.26254457	2.4154647	21	9 7.0	17.5
28059 Kiliaan	13.1	X	244.85020	182.51684	145.54848	11.71476	0.1608170	0.20193152	2.8773983	21	3 24.1	17.7
28060 1998 OL_{8}	13.1	X	299.03308	232.04624	145.39223	9.65596	0.1094166	0.16961375	3.2321786	21	8 1.8	17.5
28061 1998 ON_{11}	13.6	X	114.12501	195.39976	237.00372	1.08552	0.0178521	0.19854327	2.9100420	21	3 4.5	17.7
28062 1998 OZ_{11}	15.0	X	183.30125	37.47480	337.97729	7.36954	0.1225997	0.28564516	2.2834147	21	3 11.7	18.3
28063 1998 OR_{14}	14.3	X	291.10750	119.29452	335.73977	5.42379	0.0464917	0.22173399	2.7034263	21	11 12.4	17.8
28064 1998 QX_{10}	12.6	X	31.67965	289.68220	126.47073	10.76022	0.0988342	0.18651295	3.0338683	21	—	—
28065 1998 QZ_{10}	14.2	X	78.59359	261.01199	20.40422	2.50466	0.1893949	0.26484811	2.4014384	21	11 15.2	17.6
28066 1998 QA_{11}	15.3	X	117.91787	279.91337	349.66066	5.69872	0.0949400	0.35378639	1.9798941	21	12 19.0	17.9
28067 1998 QA_{14}	13.7	X	250.26573	350.21446	156.76983	13.53923	0.1198667	0.22459542	2.6804155	21	11 19.7	17.6
28068 Stephbillings	15.3	X	168.59578	333.97630	347.45817	4.91828	0.1694858	0.27805627	2.3247750	21	—	—
28069 1998 QQ_{22}	14.9	X	128.19988	324.73351	71.87246	4.16815	0.2122000	0.23664769	2.5886174	21	2 27.6	18.6
28070 1998 QS_{25}	13.9	X	210.00298	292.17377	81.49672	3.26022	0.0464529	0.20235702	2.8733633	21	4 17.8	18.0
28071 1998 QC_{26}	14.7	X	63.48338	345.70565	340.62564	3.52834	0.1485060	0.22173561	2.7034131	21	12 13.6	18.5
28072 Lindbowerman	14.8	X	312.60754	279.11137	86.89422	3.30745	0.1976290	0.25569603	2.4584048	21	7 31.3	17.1
28073 Fohner	14.2	X	223.22461	215.38735	224.49328	4.42852	0.0437826	0.21019581	2.8014745	21	7 25.9	18.1
28074 Matgallagher	14.3	X	213.58294	195.25635	155.33308	2.24607	0.0344255	0.19929134	2.9027553	21	3 23.9	18.5
28075 Emilyhoffman	14.9	X	339.83326	81.87829	293.85456	2.48888	0.1132269	0.25952174	2.4341848	21	10 16.7	17.3
28076 1998 QS_{48}	15.6	X	39.02119	55.73647	328.99132	5.41837	0.0607699	0.31103215	2.1574092	21	—	—
28077 1998 QH_{55}	15.0	X	252.62994	74.89656	340.06009	5.70587	0.0580372	0.29498140	2.2349765	21	8 2.9	17.7
28078 Mauricehilleman	15.2	X	351.86814	265.85528	169.06007	0.65959	0.1012677	0.30707966	2.1758820	21	—	—
28079 1998 QY_{63}	12.3	X	295.44047	275.41983	158.85653	23.86256	0.0974812	0.17776153	3.1326427	21	10 16.5	16.7
28080 1998 QS_{72}	15.2	X	262.87376	73.40824	185.48365	13.46027	0.1600376	0.23953995	2.5677383	21	1 7.9	19.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
28081 Carriehudson	15.6	X	333.93721	65.99183	242.60474	8.62173	0.0889034	0.29690880	2.2252937	21	6 25.5	17.7
28082 1998 QF_{88}	13.9	X	228.64721	234.00521	314.76983	12.10870	0.1276590	0.22426845	2.6830201	21	12 10.7	17.9
28083 1998 QP_{90}	15.0	X	50.29637	353.75074	12.72620	9.50603	0.1681614	0.30946851	2.1646702	21	—	—
28084 1998 QH_{92}	15.4	X	42.32331	267.71353	106.08873	5.09607	0.1846336	0.30735649	2.1745753	21	—	—
28085 1998 QO_{98}	14.6	X	195.64598	275.76482	197.32249	19.85883	0.3132821	0.28946742	2.2632694	21	7 24.4	19.2
28086 1998 QW_{100}	13.3	X	231.14825	86.87406	82.11681	2.96934	0.0211919	0.22163834	2.7042040	21	12 3.7	16.8
28087 1998 QH_{101}	15.5	X	319.15195	2.87481	103.02039	2.08507	0.0236836	0.31113001	2.1569568	21	—	—
28088 1998 RQ_{2}	15.4	X	27.00255	47.30269	17.51987	6.12470	0.0573238	0.31343075	2.1463884	21	—	—
28089 1998 RD_{17}	13.8	X	224.73933	216.67759	160.92718	13.23728	0.1054570	0.20423172	2.8557526	21	5 8.2	18.4
28090 1998 RW_{32}	16.5	X	14.26472	236.54427	155.20062	0.27598	0.1374199	0.30818608	2.1706711	21	—	—
28091 Mikekane	15.2	X	283.84782	117.06513	151.81214	5.27565	0.1634999	0.28530725	2.2852173	21	2 3.3	18.6
28092 Joannekear	15.2	X	92.75519	286.42970	246.49009	4.79320	0.0454960	0.29145634	2.2529612	21	6 16.8	17.6
28093 Staceylevoit	15.1	X	252.59742	283.43919	301.41471	3.84128	0.1648110	0.27510851	2.3413520	21	—	—
28094 Michellewis	14.5	X	31.69418	336.66996	207.91513	6.67757	0.1192584	0.24209028	2.5496730	21	4 7.0	16.9
28095 Seanmahoney	15.3	X	262.05788	174.65319	216.10696	1.43031	0.1225496	0.29408554	2.2395131	21	6 29.6	18.0
28096 Kathrynmarsh	15.6	X	347.36110	294.10208	304.80146	3.81630	0.1069302	0.28769114	2.2725759	21	3 28.1	17.8
28097 1998 RZ_{63}	14.4	X	151.76404	294.71134	113.85842	3.23010	0.0983734	0.19631819	2.9319891	21	3 31.2	18.8
28098 1998 RJ_{64}	15.2	X	68.97006	180.05248	143.02249	2.72295	0.2122894	0.26494153	2.4008740	21	12 30.1	18.9
28099 1998 RZ_{66}	13.7	X	160.41682	286.23197	289.40142	5.60527	0.0587871	0.17467585	3.1694274	21	10 27.7	18.5
28100 1998 RG_{69}	14.1	X	17.31264	199.84263	163.03561	3.03153	0.1047204	0.21833341	2.7314248	21	11 23.9	17.4
28101 1998 RP_{71}	15.5	X	349.46929	28.51368	25.63139	4.21730	0.1126061	0.30666847	2.1778266	21	—	—
28102 1998 RM_{79}	15.9	X	85.79123	290.95174	55.48780	3.81121	0.2091439	0.31168503	2.1543955	21	—	—
28103 Benmcpheron	15.3	X	187.43495	344.33003	114.43319	2.75873	0.1182086	0.29122219	2.2541687	21	7 7.4	18.4
28104 1998 SL_{1}	16.0	X	49.34699	76.16991	29.32224	6.17785	0.1214649	0.27415075	2.3468019	21	1 6.8	18.2
28105 Santallo	14.7	X	236.27843	222.81389	29.20172	12.03491	0.1467679	0.23051494	2.6343289	21	—	—
28106 1998 SE_{10}	15.4	X	310.70883	252.81082	31.01706	8.75832	0.1113360	0.28628199	2.2800272	21	4 7.5	17.8
28107 Sapar	13.7	X	306.10460	325.42068	291.96233	14.49453	0.0796831	0.22860794	2.6489587	21	2 28.4	17.5
28108 Sydneybarnes	16.1	X	275.17573	9.90698	41.09625	4.57359	0.1379344	0.29751938	2.2222481	21	8 18.4	18.5
28109 1998 SA_{29}	13.8	X	292.74987	83.56585	71.77367	2.43175	0.1598022	0.18139260	3.0906963	21	—	—
28110 1998 SG_{30}	15.9	X	84.03389	224.13927	15.99329	2.28650	0.1042085	0.29857549	2.2170047	21	9 22.0	18.7
28111 1998 SY_{31}	15.7	X	144.86394	240.59764	187.01960	4.65595	0.1684337	0.28252496	2.3001960	21	4 14.6	19.0
28112 1998 SN_{37}	15.7	X	59.95890	124.19122	347.02442	2.39781	0.1628531	0.27558951	2.3386268	21	2 7.3	17.4
28113 1998 SD_{43}	14.8	X	111.04737	165.67543	17.46237	7.28388	0.1607559	0.29286349	2.2457387	21	8 15.3	18.0
28114 1998 SE_{43}	14.6	X	31.78560	186.26650	8.20469	7.01507	0.0404063	0.28531703	2.2851651	21	4 12.2	17.1
28115 1998 SN_{50}	15.3	X	347.08992	240.93911	252.57312	1.42832	0.1540468	0.26965273	2.3728275	21	—	—
28116 1998 SP_{56}	13.8	X	328.26839	312.32472	15.13792	3.66137	0.0743580	0.20936828	2.8088516	21	7 17.0	17.2
28117 1998 SK_{57}	15.0	X	74.45160	220.20649	13.96268	5.46181	0.1007991	0.29774819	2.2211094	21	9 1.4	17.6
28118 1998 SR_{57}	16.8	X	94.73957	257.82996	47.17017	3.01884	0.2087641	0.30983564	2.1629599	21	—	—
28119 1998 SX_{71}	15.1	X	287.49767	155.46697	41.51204	4.26186	0.0767935	0.27222387	2.3578630	21	—	—
28120 1998 SX_{72}	15.0	X	13.30095	223.08841	40.91172	6.06985	0.1564507	0.29264159	2.2468738	21	7 4.7	16.7
28121 1998 SY_{72}	14.9	X	110.19794	33.41819	176.31648	6.35449	0.0554521	0.29565938	2.2315585	21	9 5.2	17.5
28122 1998 SJ_{74}	15.0	X	90.85450	265.73074	86.05626	4.01431	0.0990057	0.22470104	2.6795755	21	—	—
28123 1998 SM_{74}	14.6	X	346.44825	330.03407	122.96532	3.33573	0.1689741	0.26503526	2.4003079	21	—	—
28124 1998 SD_{79}	14.3	X	240.23251	278.02560	15.18419	14.08452	0.2439330	0.24030929	2.5622549	21	2 1.4	19.0
28125 Juliomiguez	14.5	X	64.64774	186.97595	351.26553	4.00157	0.0874001	0.28719154	2.2752107	21	5 17.2	16.8
28126 Nydegger	15.3	X	226.34498	164.51194	284.01930	4.08009	0.1114457	0.29438369	2.2380007	21	8 6.6	18.2
28127 Ogden–Stenerson	15.7	X	268.03581	101.91758	277.59904	2.12143	0.1157898	0.29266661	2.2467458	21	6 22.5	18.5
28128 Cynthrossman	15.4	X	98.39825	117.08824	34.15282	2.77566	0.0910134	0.28711719	2.2756035	21	5 31.3	18.0
28129 Teresummers	14.4	X	21.51227	230.57650	297.19271	4.23536	0.0778847	0.27974974	2.3153834	21	2 15.1	16.6
28130 Troemper	15.1	X	28.67175	62.84299	37.15360	3.96612	0.1310233	0.27164180	2.3612301	21	—	—
28131 Dougwelch	15.4	X	248.48167	343.32979	104.25786	3.03872	0.1473586	0.29640553	2.2278119	21	8 31.0	18.1
28132 Karenzobel	14.9	X	331.96337	121.06850	37.67715	6.84765	0.0397733	0.27314260	2.3525729	21	—	—
28133 Kylebardwell	14.6	X	101.63095	262.64145	344.06166	2.54667	0.1306423	0.30092483	2.2054508	21	10 23.9	17.5
28134 1998 SB_{131}	14.0	X	23.23521	80.83810	287.85033	1.72954	0.0527422	0.21824672	2.7321481	21	12 1.9	17.6
28135 1998 ST_{131}	14.3	X	215.00379	257.39808	291.98943	4.92167	0.1235790	0.30569133	2.1824651	21	12 11.4	17.1
28136 Chasegross	15.4	X	142.78623	227.23739	192.55362	5.88609	0.0668741	0.28151506	2.3056938	21	3 19.2	18.2
28137 Helenyao	14.8	X	193.44053	228.74890	8.73308	7.28601	0.0776175	0.26639469	2.3921350	21	—	—
28138 1998 SD_{141}	13.1	X	179.64818	287.17439	20.62193	10.53765	0.1050596	0.18682223	3.0305190	21	—	—
28139 1998 SN_{141}	13.9	X	20.86583	126.09889	27.45981	10.38778	0.0314812	0.19117171	2.9843766	21	2 21.1	18.0
28140 1998 SR_{144}	14.5	X	37.56943	351.72968	194.65220	6.86983	0.0756700	0.28371838	2.2937411	21	4 13.1	16.8
28141 1998 TC	13.7	X	19.24508	198.57463	283.97287	11.89613	0.1260994	0.26483074	2.4015435	21	—	—
28142 1998 TU	15.5	X	187.81547	56.58074	31.59628	5.98342	0.1093368	0.28883217	2.2665867	21	6 23.2	18.8
28143 1998 TK_{5}	14.3	X	321.54038	47.66199	58.97422	7.22270	0.0843667	0.26337212	2.4104022	21	—	—
28144 1998 TN_{13}	16.3	X	326.82897	120.17189	205.59109	2.81106	0.1599954	0.29318691	2.2440869	21	6 30.7	18.1
28145 1998 TY_{18}	14.6	X	263.13880	193.44255	36.58719	3.40133	0.1621107	0.23049577	2.6344749	21	—	—
28146 1998 TC_{32}	14.4	X	115.00193	266.63504	245.80086	4.59351	0.0908655	0.28761365	2.2729841	21	6 25.4	17.1
28147 1998 TD_{32}	14.8	X	339.71984	171.39841	332.82439	4.22126	0.0877106	0.27025599	2.3692952	21	—	—
28148 1998 TL_{34}	15.6	X	155.35361	262.38825	183.82285	5.09195	0.1427658	0.28447148	2.2896911	21	5 18.8	18.9
28149 1998 TX_{34}	15.7	X	228.96063	334.74493	32.80488	6.91434	0.1299073	0.28593081	2.2818937	21	4 18.9	18.9
28150 1998 UC_{1}	15.3	X	150.61644	275.98890	139.35471	5.93103	0.1481326	0.27991389	2.3144782	21	4 4.5	18.6
28151 Markknopfler	15.3	X	273.94779	144.99551	112.04236	4.47371	0.1603752	0.23525158	2.5988488	21	1 18.6	19.2
28152 1998 UK_{8}	14.9	X	257.05964	324.51219	173.10116	4.77455	0.1286452	0.25696494	2.4503049	21	11 18.8	17.9
28153 1998 UU_{20}	15.2	X	12.00815	276.79557	47.99515	5.94315	0.1846564	0.29844547	2.2176486	21	10 20.8	17.0
28154 1998 UQ_{26}	13.4	X	214.54109	72.88664	75.27517	8.40624	0.0649997	0.16897900	3.2402677	21	10 10.4	18.3
28155 Chengzhendai	14.9	X	113.43907	84.63824	14.62542	5.69915	0.1425420	0.28087619	2.3091888	21	4 15.8	17.9
28156 McColl	14.0	X	149.02562	179.78375	193.88896	9.56893	0.1396831	0.19028866	2.9936023	21	2 15.0	18.7
28157 1998 VY_{3}	14.4	X	177.17894	239.95709	91.36726	3.54462	0.1760597	0.23047134	2.6346611	21	1 22.4	18.6
28158 1998 VT_{6}	15.1	X	346.99032	274.41998	109.48997	3.19629	0.1443829	0.29950427	2.2124189	21	11 27.0	16.8
28159 Giuricich	15.1	X	195.46738	36.04119	67.16264	6.44673	0.1075333	0.29206238	2.2498435	21	7 24.4	18.4
28160 1998 VC_{11}	15.2	X	93.03662	65.43404	209.40574	4.62374	0.1082957	0.30218143	2.1993324	21	11 20.6	18.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
28161 Neelpatel	16.1	X	199.10951	242.30633	155.13488	1.16750	0.1575797	0.28499005	2.2869127	21	4 27.9	19.4
28162 1998 VD_{14}	13.8	X	172.44244	267.20283	314.28765	5.15036	0.1086584	0.26033050	2.4291408	21	11 27.8	17.5
28163 Lorikim	14.9	X	335.93342	18.22486	211.41345	4.38633	0.1598214	0.28137618	2.3064524	21	2 16.3	17.4
28164 1998 VY_{21}	15.8	X	327.32179	165.21447	275.14029	5.63306	0.0483041	0.30448434	2.1882289	21	—	—
28165 Bayanmashat	14.7	X	327.36087	188.62154	60.08628	5.94117	0.1442735	0.28255137	2.3000526	21	3 10.2	17.3
28166 1998 VP_{25}	16.1	X	33.19019	283.60451	61.69567	3.34839	0.1884025	0.30341982	2.1933440	21	12 24.0	18.5
28167 Andrewkim	14.6	X	351.53764	173.42054	58.62434	4.37650	0.0800458	0.28262569	2.2996494	21	4 2.8	17.0
28168 Evanolin	14.9	X	66.59767	76.99200	38.02367	3.32448	0.0238865	0.27711200	2.3300532	21	2 13.7	17.7
28169 Cathconte	15.0	X	229.55747	5.53367	32.56570	4.25289	0.1938228	0.28778175	2.2720988	21	5 25.4	18.6
28170 1998 VC_{30}	15.5	X	359.87329	316.46947	84.78439	3.93281	0.0958088	0.30358512	2.1925477	21	—	—
28171 Diannahu	15.1	X	1.45832	78.90329	353.25309	1.96564	0.1834061	0.26276762	2.4140975	21	—	—
28172 1998 VZ_{30}	13.2	X	85.47057	102.52605	69.86322	14.13022	0.1015067	0.23968894	2.5666741	21	6 15.4	16.4
28173 Hisakichi	15.1	X	241.14984	81.49754	55.33452	3.09266	0.1477186	0.25491060	2.4634521	21	10 23.5	18.2
28174 Harue	14.3	X	266.44035	147.73185	85.21769	13.51185	0.1780960	0.22357730	2.6885467	21	—	—
28175 1998 VM_{33}	15.3	X	217.76676	260.72301	184.51524	1.82189	0.1359461	0.24534373	2.5270824	21	7 20.0	19.1
28176 1998 VV_{43}	16.9	X	135.20560	285.48345	111.05295	1.97015	0.2403949	0.27321953	2.3521313	21	3 4.1	20.3
28177 1998 VO_{53}	14.5	X	4.28732	155.33078	276.63371	11.74429	0.1498648	0.26424618	2.4050839	21	—	—
28178 1998 WL_{1}	14.5	X	5.01350	332.87808	96.06265	7.04106	0.0893240	0.26161673	2.4211724	21	—	—
28179 1998 WR_{1}	14.7	X	152.61776	350.89712	249.20931	4.49286	0.1180001	0.29939015	2.2129812	21	12 7.7	17.8
28180 1998 WU_{1}	14.6	X	174.56579	237.71043	82.72697	11.65912	0.0773816	0.26944006	2.3740759	21	—	—
28181 1998 WW_{5}	14.7	X	208.44436	306.06459	358.04306	5.57482	0.1397983	0.27522030	2.3407179	21	1 9.9	18.3
28182 Chadharris	15.0	X	323.34985	203.16399	257.72157	1.55914	0.1647399	0.26069669	2.4268655	21	—	—
28183 Naidu	15.7	X	232.62699	219.93102	198.83260	2.11817	0.1020172	0.28950569	2.2630699	21	7 4.5	18.8
28184 Vaishnavirao	15.4	X	15.58005	265.65813	48.12011	4.51402	0.1694239	0.29627081	2.2284872	21	10 7.5	17.2
28185 1998 WJ_{18}	14.4	X	31.39968	345.65965	292.96495	4.50227	0.0997160	0.29224480	2.2489071	21	8 26.5	16.6
28186 1998 WK_{18}	15.2	X	31.17108	21.90948	328.38010	3.23457	0.1840253	0.30252980	2.1976437	21	12 27.6	17.8
28187 1998 WP_{19}	13.6	X	49.11374	300.32199	256.34780	13.55451	0.0444656	0.23348684	2.6119275	21	5 18.5	16.8
28188 1998 WV_{19}	13.1	X	155.54997	202.39914	270.80455	13.41778	0.1307726	0.23487685	2.6016122	21	6 23.5	17.2
28189 1998 WP_{22}	14.5	X	64.30207	286.10076	222.69687	3.22685	0.2074597	0.23371996	2.6101904	21	4 28.6	17.1
28190 1998 WU_{23}	12.9	X	299.94791	130.21811	18.68270	9.41119	0.0739958	0.21275992	2.7789208	21	—	—
28191 1998 WV_{23}	13.4	X	343.18702	198.74523	352.33706	13.36382	0.1080119	0.22240228	2.6980079	21	2 2.3	16.9
28192 1998 WE_{24}	13.0	X	122.26670	168.97275	281.99662	12.38716	0.1741852	0.18538119	3.0462037	21	4 23.9	17.9
28193 1998 WY_{30}	15.3	X	91.07824	288.92091	4.89776	6.09173	0.2035533	0.30273105	2.1966696	21	12 19.3	18.8
28194 1998 WX_{37}	15.8	X	344.11021	30.81398	56.51646	1.18075	0.0414373	0.26364767	2.4087224	21	—	—
28195 1998 XW_{4}	14.9	X	68.76315	346.51597	23.69662	2.70492	0.0920703	0.26172208	2.4205226	21	—	—
28196 Szeged	14.8	X	24.62111	348.66020	165.07392	6.98838	0.0536232	0.27359676	2.3499687	21	2 2.9	17.5
28197 1998 XZ_{12}	14.8	X	133.87417	133.90377	258.39995	5.52392	0.1096670	0.27256749	2.3558810	21	2 4.9	18.0
28198 1998 XU_{16}	13.3	X	325.67178	81.21810	84.58842	10.82129	0.0664698	0.17581727	3.1556950	21	—	—
28199 1998 XA_{42}	13.8	X	306.70714	323.31640	90.90531	5.49460	0.0033328	0.25146663	2.4858933	21	10 24.1	17.0
28200 1998 XF_{44}	14.0	X	322.28578	77.86700	22.91525	6.25070	0.0973647	0.25911548	2.4367285	21	—	—
28201 Lifubin	14.3	X	200.93690	68.97099	11.53461	6.81256	0.1409531	0.28586726	2.2822319	21	6 26.5	17.8
28202 1998 XC_{47}	15.2	X	96.22803	322.98943	50.10981	3.13389	0.2104194	0.26683897	2.3894789	21	—	—
28203 1998 XL_{48}	15.5	X	357.84437	0.77932	43.40074	3.70609	0.3082725	0.30263553	2.1971318	21	—	—
28204 Liyakang	15.2	X	23.87160	31.52057	41.63332	2.93276	0.1822766	0.26324579	2.4111733	21	—	—
28205 1998 XL_{51}	16.0	X	327.57186	46.44329	350.34544	5.13679	0.2195003	0.29728511	2.2234154	21	11 4.0	17.1
28206 Haozhongning	14.8	X	177.22604	306.57714	80.55823	8.75794	0.1773271	0.27746181	2.3280943	21	3 30.6	18.5
28207 Blakesmith	14.6	X	149.66150	77.83771	351.89569	1.66492	0.1051118	0.23374242	2.6100231	21	4 19.5	18.3
28208 Timtrippel	14.2	X	158.14827	132.19504	16.51602	5.38342	0.1904760	0.24176141	2.5519847	21	8 14.9	18.4
28209 Chatterjee	14.1	X	28.11890	202.25488	296.88861	9.70132	0.0876604	0.22935204	2.6432261	21	1 28.9	17.1
28210 Howardfeng	15.4	X	256.92077	343.92310	62.83429	7.80926	0.1893760	0.29141929	2.2531521	21	7 6.9	18.4
28211 1998 XJ_{64}	14.9	X	321.08444	273.59751	70.61787	6.41986	0.2508601	0.29422432	2.2388088	21	7 3.9	16.5
28212 1998 XJ_{78}	15.6	X	132.23996	247.43872	145.76026	5.55875	0.2017934	0.27477626	2.3432389	21	2 18.9	18.6
28213 1998 XS_{92}	14.9	X	338.10115	304.97737	131.94880	11.13955	0.1100390	0.25819944	2.4424885	21	—	—
28214 1998 YW	16.0	X	305.32213	148.10991	251.39666	0.75899	0.1922078	0.29423740	2.2387424	21	9 12.6	17.8
28215 1998 YE_{1}	14.3	X	265.06430	22.04918	351.67258	7.01782	0.1287076	0.28521543	2.2857078	21	6 7.2	17.3
28216 1998 YU_{1}	14.5	X	353.44074	270.37947	173.48486	2.77461	0.1442005	0.25675436	2.4516445	21	—	—
28217 1998 YO_{3}	14.6	X	217.12018	242.92488	94.58313	7.64382	0.1442330	0.27685644	2.3314868	21	3 2.9	18.2
28218 1998 YA_{6}	15.1	X	257.74557	7.49535	176.34289	3.84157	0.0607994	0.30628176	2.1796594	21	—	—
28219 1998 YP_{8}	15.1	X	98.90964	329.37577	138.75896	1.98882	0.1258505	0.23065538	2.6332595	21	4 13.1	18.5
28220 York	15.3	X	197.95729	241.99177	242.47942	1.27131	0.0666655	0.24577756	2.5241078	21	8 23.8	19.0
28221 1998 YG_{17}	14.5	X	75.12421	326.85738	267.44949	0.76670	0.0126675	0.19763755	2.9189260	21	8 10.6	18.5
28222 Neilpathak	14.3	X	211.38713	147.19284	57.34447	4.27425	0.0894333	0.30190561	2.2006717	21	—	—
28223 1998 YR_{27}	14.1	X	8.07232	339.78669	125.69339	10.03417	0.2503575	0.21966877	2.7203440	21	—	—
28224 1999 AJ	14.8	X	66.78980	228.87992	162.91889	2.54423	0.2126792	0.26360502	2.4089822	21	—	—
28225 1999 AS	14.1	X	223.82817	285.92295	53.70500	4.78971	0.1429574	0.23140454	2.6275730	21	3 15.9	18.3
28226 1999 AE_{2}	14.2	X	274.18393	77.03030	53.17261	5.11351	0.1509355	0.21005039	2.8027674	21	11 19.7	17.7
28227 1999 AN_{2}	14.4	X	173.68324	63.23525	78.92174	4.73334	0.0709775	0.28688326	2.2768403	21	8 24.0	17.4
28228 1999 AU_{2}	14.3	X	200.67225	16.87765	34.40389	6.73880	0.1309637	0.23490851	2.6013785	21	5 19.0	18.3
28229 1999 AK_{4}	14.7	X	3.56819	128.12384	271.46695	5.33740	0.1145710	0.25665261	2.4522924	21	12 31.9	17.5
28230 1999 AH_{5}	13.8	X	47.78982	190.66962	333.15197	13.00409	0.1063771	0.27312088	2.3526976	21	3 25.4	16.4
28231 1999 AL_{5}	13.9	X	144.10494	160.16051	327.80766	21.91991	0.0325317	0.23736952	2.5833668	21	6 26.8	17.9
28232 1999 AS_{5}	14.6	X	121.20463	350.25920	79.38865	6.48347	0.1302791	0.22806000	2.6531999	21	3 25.6	18.4
28233 1999 AV_{5}	13.6	X	114.23226	14.14259	348.07016	12.04981	0.1338043	0.21874548	2.7279934	21	—	—
28234 1999 AB_{8}	13.6	X	43.44460	39.60277	99.25070	15.94983	0.1896775	0.18167726	3.0874671	21	3 21.4	17.4
28235 1999 AL_{8}	15.1	X	148.86073	314.01437	129.00949	5.33819	0.2290959	0.28130997	2.3068143	21	5 15.3	18.8
28236 1999 AH_{10}	13.7	X	220.18704	325.16884	138.66750	2.78115	0.0270976	0.19547135	2.9404512	21	8 25.2	17.7
28237 1999 AR_{16}	15.0	X	213.16299	120.26589	172.47419	2.55982	0.0362060	0.22248408	2.6973466	21	1 6.6	18.7
28238 1999 AB_{18}	14.2	X	101.16022	114.02397	139.19332	2.71928	0.0101318	0.20267493	2.8703578	21	10 9.1	18.1
28239 1999 AQ_{19}	14.0	X	329.23522	103.14907	135.23796	10.31735	0.0414941	0.18335070	3.0686522	21	3 29.9	18.3
28240 1999 AP_{21}	14.5	X	85.71781	11.96364	295.26370	5.86291	0.1418774	0.25214504	2.4814323	21	12 18.5	18.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
28241 1999 AC_{22}	14.6	X	150.01609	39.27023	59.98238	5.23996	0.0549305	0.23281733	2.6169325	21	5 24.6	18.3
28242 Mingantu	14.8	X	11.28888	177.79757	236.24182	3.86502	0.1199713	0.25845575	2.4408734	21	—	—
28243 1999 AA_{23}	14.6	X	139.00817	89.37854	49.14745	6.56366	0.1328204	0.28012357	2.3133230	21	7 10.6	18.0
28244 1999 AL_{31}	14.8	X	2.99593	222.47775	127.77539	5.84351	0.1133795	0.24672285	2.5176565	21	10 23.6	17.6
28245 1999 AV_{37}	14.5	X	17.15602	334.93243	125.89226	11.30009	0.1321540	0.21916627	2.7245006	21	—	—
28246 1999 BW_{1}	13.7	X	313.79401	31.77965	161.99787	7.26070	0.0119543	0.21964517	2.7205389	21	1 6.7	17.4
28247 1999 BP_{3}	15.2	X	127.93640	222.43895	136.51359	0.89035	0.2295319	0.26729955	2.3867333	21	1 5.3	18.3
28248 Barthelemy	14.1	X	254.26943	41.73312	324.00076	2.48766	0.2118585	0.23569408	2.5955950	21	5 7.8	18.1
28249 1999 BX_{6}	13.4	X	301.19855	51.81384	164.83803	15.37993	0.0405456	0.17134150	3.2104137	21	1 24.2	18.2
28250 1999 BC_{8}	14.0	X	358.46124	205.96723	315.36592	9.28255	0.1347046	0.17665972	3.1456545	21	1 22.6	17.8
28251 Gerbaldi	14.4	X	283.01578	256.68058	127.59533	2.92453	0.1175389	0.19639873	2.9311875	21	7 19.4	18.3
28252 1999 BK_{15}	14.0	X	43.90514	210.33685	341.47196	11.77268	0.1317995	0.22823667	2.6518305	21	5 8.6	17.2
28253 1999 BA_{19}	13.8	X	231.07700	3.70953	309.94064	13.82955	0.0990629	0.22939853	2.6428689	21	2 16.1	17.8
28254 Raghrama	14.5	X	318.42703	185.02380	295.85297	3.04707	0.1395573	0.25913545	2.4366033	21	—	—
28255 1999 BB_{24}	14.3	X	321.55623	146.73137	180.65489	3.83267	0.1542437	0.28607060	2.2811503	21	6 23.6	16.5
28256 1999 BL_{24}	14.0	X	99.08373	325.60576	148.99513	7.23675	0.0587425	0.27519919	2.3408376	21	4 7.9	16.8
28257 1999 BT_{24}	13.5	X	26.63528	307.65789	243.64747	8.24660	0.1316091	0.22993440	2.6387612	21	4 7.3	16.3
28258 1999 BM_{25}	14.2	X	325.39362	316.75690	161.95232	8.31072	0.1440955	0.25907299	2.4369949	21	—	—
28259 1999 BY_{27}	14.8	X	187.47161	80.61973	85.76402	6.74041	0.0959574	0.25178034	2.4838279	21	10 8.9	18.5
28260 1999 BK_{29}	14.3	X	94.68569	224.29877	317.85108	3.41970	0.0269564	0.19227545	2.9729446	21	7 1.3	18.4
28261 1999 CJ	12.9	X	164.55646	88.66671	8.77903	10.53424	0.0902400	0.19186476	2.9771855	21	6 10.4	17.6
28262 1999 CQ_{4}	13.9	X	3.03327	11.88969	194.77440	4.04669	0.1876820	0.18259398	3.0771246	21	3 23.7	17.2
28263 1999 CR_{4}	13.2	X	59.38704	278.62476	295.00758	8.87952	0.0485151	0.23570274	2.5955315	21	6 28.5	16.4
28264 1999 CJ_{5}	13.5	X	219.71913	44.37285	19.03254	10.67148	0.1129931	0.19264894	2.9691009	21	6 25.9	18.2
28265 1999 CL_{5}	13.4	X	265.90389	19.62438	359.33076	14.06458	0.0844369	0.23598084	2.5934918	21	6 25.2	17.2
28266 1999 CP_{5}	14.0	X	300.60968	340.55588	11.27690	9.45447	0.1321799	0.23631758	2.5910276	21	6 29.1	17.3
28267 1999 CH_{10}	14.1	X	21.08270	342.12708	87.85572	4.16186	0.1663121	0.25713080	2.4492511	21	—	—
28268 1999 CA_{14}	14.8	X	145.14227	328.17154	124.73925	4.29040	0.1109839	0.27681846	2.3317000	21	5 14.6	18.1
28269 1999 CQ_{14}	13.7	X	153.92636	323.06022	163.91791	13.45919	0.1129384	0.23634335	2.5908392	21	7 8.1	17.8
28270 1999 CS_{14}	13.7	X	9.47019	153.72183	217.88096	1.62829	0.0699162	0.20234915	2.8734378	21	11 15.8	17.3
28271 1999 CK_{16}	14.6	X	279.67557	234.55292	209.38451	1.37104	0.0341987	0.20268243	2.8702869	21	10 13.9	18.3
28272 Mikejanner	14.5	X	58.66324	234.38475	87.03528	7.17729	0.1678896	0.29562459	2.2317335	21	12 18.2	17.5
28273 Maianhvu	14.8	X	282.55408	79.68892	337.40928	1.98892	0.1361973	0.24673990	2.5175404	21	9 1.8	17.9
28274 1999 CF_{21}	14.4	X	58.03520	232.86734	312.44030	12.16990	0.1157824	0.23236198	2.6203502	21	5 23.8	17.8
28275 Quoc–Bao	14.2	X	74.63866	215.25397	344.15366	1.42145	0.0801046	0.19170425	2.9788471	21	7 5.4	18.1
28276 Filipnaiser	15.2	X	63.82047	330.10685	83.44583	3.51834	0.1790189	0.26399045	2.4066369	21	—	—
28277 Chengherngyi	14.5	X	249.60736	351.25809	21.74937	6.98777	0.1279127	0.28124359	2.3071773	21	5 17.8	17.7
28278 1999 CQ_{27}	13.6	X	3.45568	181.84871	81.75199	11.32240	0.0532050	0.19129762	2.9830670	21	6 14.1	17.5
28279 1999 CD_{28}	13.0	X	254.20392	213.53476	60.04545	8.09762	0.1461419	0.17780578	3.1321229	21	1 31.5	18.0
28280 1999 CG_{28}	14.2	X	210.89719	225.46279	9.89683	7.06150	0.0906418	0.25649614	2.4532896	21	—	—
28281 1999 CT_{29}	12.6	X	255.72140	344.20546	325.82580	12.87877	0.1808197	0.22687623	2.6624210	21	3 3.0	16.9
28282 1999 CJ_{35}	13.0	X	277.52975	329.00213	0.75520	10.39209	0.0951313	0.18944150	3.0025204	21	5 2.2	17.4
28283 1999 CR_{35}	13.2	X	115.62484	89.43463	65.03158	10.54632	0.0442101	0.19168737	2.9790220	21	6 23.7	17.5
28284 1999 CG_{37}	13.5	X	357.41370	130.96558	38.59610	3.51367	0.0288537	0.22256742	2.6966732	21	1 31.5	17.0
28285 1999 CP_{39}	14.1	X	107.70606	63.28982	27.50380	4.23392	0.1722282	0.22843909	2.6502638	21	4 8.2	17.6
28286 1999 CJ_{40}	13.8	X	128.94600	275.88977	76.50958	8.57225	0.0231664	0.21750021	2.7383961	21	—	—
28287 Osmanov	14.2	X	32.45695	309.35335	11.75862	1.86421	0.0707845	0.20109903	2.8853338	21	10 13.9	17.8
28288 1999 CL_{49}	14.0	X	82.92883	92.36136	91.43495	10.08353	0.0401325	0.19006365	2.9959646	21	6 19.8	18.1
28289 1999 CT_{50}	13.8	X	307.27873	304.80441	267.84638	0.08109	0.1195985	0.17502087	3.1652608	21	1 16.8	18.1
28290 1999 CY_{51}	13.3	X	218.47083	210.75003	9.82552	9.17716	0.0826101	0.21027248	2.8007935	21	—	—
28291 1999 CX_{52}	13.3	X	4.03623	56.19659	46.65857	7.20561	0.1059042	0.25989250	2.4318692	21	—	—
28292 1999 CX_{54}	12.7	X	145.36091	8.95446	7.12073	9.30650	0.0242310	0.22092537	2.7100189	21	2 1.7	16.5
28293 1999 CN_{57}	13.9	X	318.65651	322.21507	118.50353	1.39527	0.0126593	0.24991887	2.4961462	21	12 11.4	17.1
28294 1999 CS_{59}	13.5	X	229.59525	165.05467	254.87283	10.92447	0.0383993	0.19583514	2.9368086	21	7 7.9	17.7
28295 Heyizheng	14.7	X	96.41373	109.19041	269.49703	4.27556	0.0940018	0.21793895	2.7347196	21	—	—
28296 1999 CQ_{63}	14.3	X	107.22616	321.03472	190.32586	11.76125	0.0764008	0.19036279	2.9928252	21	6 14.3	18.8
28297 1999 CR_{63}	14.0	X	120.92493	328.30608	224.22861	7.88539	0.1085776	0.19551331	2.9400305	21	8 22.0	18.6
28298 1999 CM_{64}	14.0	X	339.05124	248.83921	241.36720	6.76137	0.0905161	0.21643295	2.7473910	21	—	—
28299 Kanghaoyan	14.3	X	277.62584	244.31797	194.02629	4.22703	0.1235524	0.29170334	2.2516892	21	10 2.4	16.7
28300 1999 CS_{67}	13.8	X	116.75992	306.76915	181.21962	10.43646	0.0346253	0.18873287	3.0100314	21	5 22.9	18.2
28301 1999 CW_{67}	13.6	X	263.67382	255.99785	275.68258	6.36606	0.1598760	0.21084711	2.7957024	21	12 26.8	17.1
28302 1999 CK_{71}	13.8	X	289.67022	130.01139	162.92659	2.65479	0.1934016	0.18331969	3.0689983	21	3 22.9	18.3
28303 1999 CY_{72}	13.8	X	62.19401	313.99797	280.05891	10.98945	0.0543324	0.23726456	2.5841287	21	7 29.4	17.1
28304 1999 CC_{75}	13.1	X	108.27316	137.31925	278.93990	10.97855	0.1549092	0.22401076	2.6850773	21	2 16.3	16.8
28305 Wangjiayi	14.6	X	166.76266	208.66279	223.68848	1.99074	0.1215542	0.23258406	2.6186820	21	5 12.9	18.6
28306 1999 CV_{79}	13.7	X	19.52089	187.47616	294.04821	8.07055	0.0603274	0.17487290	3.1670460	21	1 9.2	17.8
28307 1999 CN_{80}	14.0	X	124.56956	274.29437	185.42758	12.99507	0.1649660	0.23069356	2.6329690	21	5 9.9	18.0
28308 1999 CA_{81}	14.2	X	132.61278	333.41475	169.96246	15.63348	0.1122828	0.23546144	2.5973044	21	7 6.3	18.3
28309 Ericfein	14.3	X	36.31564	295.02070	201.26356	4.78084	0.1420487	0.26708749	2.3879965	21	1 26.9	16.4
28310 1999 CT_{81}	14.0	X	76.55682	264.48376	228.33758	5.37961	0.1463641	0.18303398	3.0721911	21	4 21.5	18.0
28311 1999 CY_{90}	14.9	X	183.61213	324.01540	111.29487	13.03635	0.0677391	0.23609108	2.5926845	21	6 4.6	18.8
28312 1999 CH_{94}	13.8	X	323.12059	276.46486	28.91713	9.27303	0.0842998	0.19141402	2.9818575	21	6 5.3	17.7
28313 1999 CU_{99}	13.9	X	49.25797	283.07434	61.26503	7.45555	0.1123426	0.20626983	2.8369101	21	12 11.1	17.9
28314 1999 CG_{100}	13.8	X	27.81186	169.48425	121.33640	3.10450	0.0718304	0.19493887	2.9458034	21	8 28.9	17.5
28315 1999 CD_{101}	14.2	X	261.93809	298.38348	37.14547	5.03632	0.0576924	0.18579522	3.0416765	21	4 29.4	18.5
28316 1999 CK_{101}	14.1	X	305.10142	2.18750	73.20732	2.74140	0.1125408	0.20476749	2.8507691	21	10 31.4	17.5
28317 Aislinndeely	14.9	X	143.76174	168.33608	238.38487	1.66018	0.0819667	0.22772666	2.6557883	21	3 12.3	18.7
28318 Janecox	14.9	X	211.84423	208.10191	178.47362	3.93740	0.1609991	0.27855057	2.3220239	21	4 26.9	18.4
28319 1999 CR_{107}	14.3	X	119.93136	249.33048	161.50585	12.42622	0.1651999	0.22608805	2.6686051	21	3 1.5	18.0
28320 1999 CG_{110}	13.2	X	256.57808	83.22518	197.87839	16.32403	0.2140688	0.17701545	3.1414388	21	1 31.4	18.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
28321 Arnabdey	14.1	X	238.31362	143.55096	239.50578	5.00943	0.1906675	0.28085001	2.3093322	21	5 15.0	17.7
28322 Kaeberich	14.3	X	337.53045	125.41675	169.43288	2.90884	0.0923103	0.23505320	2.6003108	21	6 13.0	17.3
28323 1999 CP_{112}	14.6	X	188.69126	255.86431	187.39252	10.46998	0.0882463	0.19240484	2.9716116	21	6 19.4	19.3
28324 Davidcampeau	14.8	X	198.19975	256.25135	162.69456	5.94603	0.1729777	0.27986684	2.3147375	21	5 26.4	18.5
28325 1999 CK_{118}	13.9	X	36.38352	233.27447	325.64589	12.92457	0.1149100	0.22829763	2.6513585	21	5 2.5	17.2
28326 1999 CY_{120}	13.5	X	338.83683	122.12133	58.02049	13.92085	0.1112990	0.22258368	2.6965419	21	1 8.6	17.1
28327 1999 CT_{123}	15.0	X	71.21607	65.53159	29.47357	12.28233	0.1578335	0.22454861	2.6807880	21	2 24.3	18.2
28328 1999 CN_{125}	13.9	X	57.69846	52.89317	72.28563	12.37190	0.1513884	0.22539148	2.6741005	21	3 14.8	17.1
28329 1999 CD_{150}	14.7	X	128.47716	247.72686	152.95856	2.56015	0.2052465	0.26679860	2.3897200	21	2 25.9	17.7
28330 1999 CG_{152}	14.5	X	58.84128	351.71581	146.67191	0.36230	0.1331652	0.18242108	3.0790686	21	4 1.4	18.3
28331 1999 CD_{156}	14.0	X	99.28352	231.94327	254.99806	7.85731	0.0970724	0.18531272	3.0469540	21	5 5.8	18.4
28332 1999 DU_{1}	14.9	X	276.33719	334.29384	61.09509	7.29980	0.2080543	0.24454635	2.5325727	21	7 12.9	18.4
28333 1999 DW_{1}	13.7	X	323.01458	190.45665	91.03451	11.14093	0.0600302	0.18888669	3.0083970	21	5 12.4	17.8
28334 1999 DJ_{2}	13.6	X	49.69572	58.55249	64.69521	13.73554	0.0580876	0.17801993	3.1296106	21	2 27.9	18.0
28335 1999 DN_{2}	12.5	X	342.04707	103.77874	15.95711	14.69572	0.0568064	0.16893520	3.2408278	21	—	—
28336 1999 DZ_{4}	13.5	X	122.48832	331.85221	223.30228	15.38622	0.1060843	0.19560929	2.9390687	21	8 24.2	18.2
28337 1999 EA_{2}	15.3	X	281.63467	225.45242	135.71346	4.02809	0.2461994	0.23861188	2.5743920	21	5 28.4	18.9
28338 1999 EL_{2}	13.7	X	86.60088	230.28439	179.62980	2.92718	0.0386459	0.17297745	3.1901398	21	1 9.8	18.1
28339 1999 EC_{3}	13.5	X	337.74779	335.97097	354.71948	10.58155	0.1010273	0.19071591	2.9891298	21	8 6.1	17.2
28340 Yukihiro	12.6	X	266.24612	285.38048	80.67256	11.83521	0.1532216	0.18877988	3.0095316	21	5 31.4	17.0
28341 Bingaman	13.6	X	141.79152	92.41596	125.96526	2.99659	0.0218862	0.19964867	2.8992908	21	10 16.1	17.6
28342 1999 FB_{9}	13.7	X	210.10412	67.82387	51.45387	2.84595	0.0551724	0.19574584	2.9377016	21	8 31.2	18.0
28343 1999 FG_{9}	12.4	X	275.38902	275.21792	35.05283	16.47552	0.2330237	0.17922914	3.1155182	21	3 29.7	17.3
28344 1999 FE_{19}	14.3	X	205.36225	140.69134	319.84197	4.55366	0.1676035	0.23826985	2.5768551	21	7 26.2	18.2
28345 1999 FL_{19}	13.5	X	107.49381	25.41139	104.39521	3.13216	0.1359028	0.18384319	3.0631694	21	5 26.5	17.9
28346 Kent	13.6	X	301.51603	209.30083	1.83733	9.18329	0.1286560	0.21699336	2.7426586	21	—	—
28347 1999 FD_{22}	13.3	X	81.75592	116.80960	318.37268	8.61132	0.0854327	0.17762253	3.1342768	21	2 8.2	17.4
28348 1999 FO_{23}	12.8	X	91.70934	190.74866	333.74370	9.34766	0.0546106	0.18808068	3.0169857	21	6 7.3	17.1
28349 1999 FB_{26}	13.4	X	341.55972	103.25466	350.25824	9.87980	0.1462012	0.20899560	2.8121897	21	—	—
28350 1999 FC_{26}	13.1	X	212.36548	71.64284	350.92619	9.94449	0.1026846	0.18839412	3.0136385	21	6 17.6	17.9
28351 Andrewfeldman	15.2	X	233.79957	126.14424	90.66141	4.45509	0.0662368	0.29697613	2.2249573	21	—	—
28352 1999 FF_{31}	12.6	X	187.74707	281.01160	168.41858	10.92606	0.0799456	0.18802857	3.0175432	21	6 26.2	17.3
28353 Chrisnielsen	14.4	X	136.35164	91.07877	217.41751	3.47352	0.1879251	0.29323552	2.2438389	21	—	—
28354 1999 FV_{33}	13.5	X	165.96820	177.34721	158.46039	11.84161	0.0963220	0.16944757	3.2342914	21	1 19.6	18.5
28355 1999 FW_{33}	13.6	X	130.23335	242.68476	134.84304	6.82200	0.1024276	0.17156355	3.2076430	21	2 1.2	18.3
28356 1999 FF_{38}	14.5	X	269.00053	175.62428	210.84170	6.99003	0.2184249	0.23912968	2.5706743	21	6 19.3	18.2
28357 1999 FB_{40}	13.8	X	49.10369	227.50730	330.22386	14.53096	0.0638619	0.23016781	2.6369769	21	5 18.2	17.4
28358 1999 FW_{48}	13.4	X	254.78545	305.09440	26.32466	6.73360	0.1072185	0.18362716	3.0655714	21	4 11.0	18.0
28359 1999 FP_{52}	13.9	X	122.81441	74.33785	1.04519	6.27856	0.0962985	0.18155548	3.0888476	21	3 31.4	18.4
28360 1999 FU_{55}	13.2	X	217.26406	355.18571	130.01711	3.27380	0.0524143	0.19791497	2.9161977	21	9 16.3	17.3
28361 1999 FF_{59}	14.4	X	175.97185	338.57465	90.88688	4.85047	0.2578499	0.23367132	2.6105526	21	5 22.5	19.0
28362 1999 GP_{5}	13.1	X	337.43722	266.99591	93.81606	13.01700	0.0752531	0.19660685	2.9291185	21	9 20.7	17.0
28363 1999 GN_{6}	14.2	X	355.25375	84.36581	293.13938	0.95920	0.0861121	0.19622587	2.9329087	21	11 2.1	17.6
28364 1999 GN_{7}	13.7	X	2.51064	153.93460	192.65876	12.04720	0.1835349	0.19487125	2.9464848	21	10 12.0	16.8
28365 1999 GF_{14}	13.3	X	4.22153	176.23433	31.33225	14.07180	0.0828997	0.22214490	2.7000915	21	3 31.3	16.5
28366 Verkuil	14.6	X	86.41465	313.18244	141.30328	5.31212	0.1902564	0.22171330	2.7035945	21	3 20.5	17.8
28367 1999 GO_{16}	13.5	X	199.59773	312.31008	170.47911	9.45554	0.2000141	0.19557959	2.9393662	21	8 13.1	18.6
28368 1999 GW_{18}	13.0	X	340.77294	30.65331	113.78987	7.06811	0.0289471	0.16852838	3.2460412	21	—	—
28369 1999 GA_{21}	13.1	X	134.18275	246.77251	161.12248	13.16937	0.0462098	0.17458781	3.1704928	21	3 6.8	17.7
28370 1999 GK_{34}	13.5	X	250.47507	153.81932	343.51024	10.37876	0.0597390	0.20242047	2.8727628	21	11 5.0	17.6
28371 1999 GG_{39}	13.1	X	310.42743	186.77474	161.84248	10.12676	0.0792806	0.19060779	2.9902600	21	7 15.7	17.1
28372 1999 HU	12.8	X	193.42850	278.06086	204.96553	9.20243	0.0331714	0.18920457	3.0050265	21	8 12.9	17.4
28373 1999 HL_{3}	12.4	X	106.30429	305.81962	100.92667	11.51468	0.1728227	0.17459569	3.1703974	21	2 20.9	17.0
28374 1999 HL_{11}	13.4	X	216.66248	342.34478	336.92029	0.11962	0.1332454	0.17106762	3.2138394	21	2 18.3	18.5
28375 1999 JC	13.4	X	84.59935	272.51653	205.00785	0.13914	0.1537417	0.17960778	3.1111380	21	4 15.1	17.6
28376 Atifjaved	15.4	X	218.38998	7.73557	296.51708	3.99695	0.1775909	0.30166411	2.2018461	21	1 15.2	18.9
28377 1999 JC_{24}	13.7	X	116.82715	243.93172	223.56331	11.96584	0.1382509	0.22476050	2.6791029	21	5 6.2	17.3
28378 1999 JN_{24}	13.2	X	42.40316	261.90621	28.14755	10.95247	0.0828216	0.19066258	2.9896871	21	9 22.1	17.2
28379 1999 JK_{37}	14.8	X	149.48866	339.90667	39.60137	7.87850	0.0789099	0.30349545	2.1929796	21	2 2.7	17.6
28380 1999 JO_{38}	13.2	X	19.31871	245.31647	203.80818	8.55810	0.1357964	0.20916032	2.8107131	21	—	—
28381 1999 JQ_{39}	12.7	X	275.64215	15.40340	43.89385	11.22389	0.0988375	0.19081796	2.9880640	21	9 2.3	17.0
28382 Stevengillen	15.3	X	232.61432	64.98712	274.45311	0.48564	0.1930551	0.26166206	2.4208927	21	3 16.3	19.3
28383 1999 JX_{68}	14.2	X	139.93369	287.11379	203.11888	10.62598	0.0817183	0.22971834	2.6404155	21	6 24.7	18.3
28384 1999 JT_{76}	13.7	X	211.01655	217.12496	140.81177	6.97676	0.1383718	0.26074567	2.4265615	21	3 23.5	17.5
28385 1999 JX_{76}	12.4	X	22.52512	55.08842	70.48491	15.70567	0.0704107	0.17017711	3.2250414	21	1 20.8	16.8
28386 1999 JD_{79}	13.2	X	299.55453	166.68470	192.06716	9.78841	0.0672374	0.18602147	3.0392097	21	7 14.3	17.5
28387 1999 JE_{79}	12.9	X	81.12318	21.14162	119.21781	17.42999	0.1620751	0.18028504	3.1033416	21	5 17.1	17.5
28388 1999 JM_{86}	12.9	X	174.74392	274.57655	162.88584	11.55591	0.1425232	0.18453022	3.0555617	21	5 31.9	18.0
28389 1999 JN_{95}	13.4	X	249.73993	254.34980	177.05397	9.46964	0.0729410	0.18840556	3.0135165	21	8 11.6	17.8
28390 Demjohopkins	15.0	X	89.78358	247.78560	130.33729	5.29136	0.1731914	0.29281289	2.2459974	21	—	—
28391 1999 LV_{11}	13.2	X	122.52299	225.66596	228.15734	15.93774	0.2255945	0.17642302	3.1484675	21	5 7.8	18.1
28392 1999 NQ_{11}	14.0	X	1.93323	137.58318	164.45095	2.72228	0.0446290	0.22266880	2.6958546	21	8 3.3	17.4
28393 1999 RB_{12}	14.2	X	271.24170	186.26614	177.40956	7.04624	0.1623278	0.17184907	3.2040892	21	6 2.8	19.0
28394 Mittag–Leffler	15.5	X	229.55222	171.89076	216.23111	1.33755	0.1446813	0.21177735	2.7875096	21	5 19.8	19.8
28395 1999 RZ_{42}	14.0	X	78.59766	318.05171	52.13899	16.39600	0.2149698	0.23808577	2.5781831	21	—	—
28396 Eymann	15.4	X	77.35327	333.13423	326.45660	6.36250	0.1258559	0.27505966	2.3416291	21	12 1.1	18.8
28397 Forrestbetton	15.0	X	321.84312	224.95610	183.21346	6.93077	0.1038874	0.27421052	2.3464608	21	11 7.1	17.2
28398 Ericthomas	15.1	X	155.08818	27.21335	263.92112	3.17360	0.1062006	0.24082399	2.5586029	21	—	—
28399 1999 RY_{136}	13.9	X	116.68255	316.37790	325.21286	9.42495	0.0848448	0.18955223	3.0013510	21	12 3.2	18.6
28400 Morgansinko	15.1	X	98.48045	350.37327	8.12730	1.47783	0.1890881	0.19277009	2.9678569	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
28401 1999 RT_{165}	13.7	X	298.17948	108.87459	333.25367	1.68901	0.0701390	0.18374380	3.0642740	21	10 29.0	17.7
28402 Matthewkim	15.0	X	196.59468	332.00262	292.22099	6.32271	0.0971675	0.28344831	2.2951979	21	—	—
28403 1999 TY	14.1	X	152.00859	253.56900	21.81824	17.44571	0.2125343	0.23569996	2.5955519	21	—	—
28404 1999 TQ_5	14.6	X	59.69764	207.90749	200.77729	4.05349	0.1711196	0.23661744	2.5888380	21	—	—
28405 1999 TG_{13}	15.2	X	202.78213	284.27640	54.67889	4.69402	0.1960987	0.29191781	2.2505862	21	2 17.5	18.8
28406 1999 TB_{100}	13.6	X	305.77436	106.18320	165.82755	17.04135	0.0605873	0.20687049	2.8314160	21	4 3.9	17.5
28407 Meghanarao	14.4	X	337.51661	130.05732	6.62443	6.72410	0.1178332	0.23718319	2.5847197	21	—	—
28408 1999 TS_{222}	14.4	X	334.02115	183.84992	122.31468	7.98566	0.0345057	0.21361187	2.7715271	21	6 28.8	18.0
28409 1999 TQ_{226}	15.2	X	212.10438	336.64286	241.14865	2.92278	0.1603012	0.23140878	2.6275410	21	12 25.6	19.0
28410 1999 TE_{246}	13.9	X	138.81648	127.92264	168.82963	8.53974	0.0762866	0.18673211	3.0314940	21	—	—
28411 Xiuqicao	15.8	X	126.59826	132.24820	156.36508	6.85176	0.1448164	0.27621188	2.3351125	21	—	—
28412 1999 UY_{13}	14.5	X	3.33135	20.59532	122.64818	3.56298	0.1307511	0.28525979	2.2854708	21	—	—
28413 1999 UT_{26}	14.5	X	137.37430	308.85164	330.21443	4.74458	0.0365394	0.23113445	2.6296196	21	12 29.8	18.3
28414 1999 UH_{46}	14.7	X	34.63679	122.03185	0.74023	9.13327	0.0659034	0.24153539	2.5535765	21	1 18.2	17.8
28415 Yingxiong	15.2	X	296.51664	287.16352	229.74852	5.30733	0.1011109	0.23061993	2.6335293	21	—	—
28416 Ngqin	16.1	X	201.91813	276.38719	44.54835	3.14037	0.1585711	0.28941279	2.2635542	21	1 23.0	19.5
28417 Leewei	14.5	X	239.76713	299.95690	251.93605	6.51516	0.1671227	0.27425187	2.3462249	21	—	—
28418 Pornwasu	16.4	X	340.54165	110.34634	40.06942	0.41546	0.1470851	0.28278401	2.2987910	21	—	—
28419 Tanpitcha	15.4	X	200.51238	220.13430	61.12273	6.19620	0.1819133	0.28429060	2.2906622	21	—	—
28420 1999 VC_{78}	14.0	X	325.68555	53.35538	353.00225	15.75730	0.1359346	0.17974262	3.1095820	21	10 14.1	17.8
28421 1999 VH_{87}	15.2	X	58.61859	316.36891	122.55449	24.29366	0.0906060	0.36833461	1.9274111	21	—	—
28422 1999 VA_{154}	14.2	X	172.38064	352.75357	166.83697	9.60692	0.0921871	0.21486598	2.7607322	21	9 7.4	18.3
28423 1999 WN_3	13.6	X	340.56998	211.02880	145.47353	3.39138	0.0666204	0.17029638	3.2235354	21	9 10.8	17.8
28424 1999 XA	14.3	X	261.67360	345.86772	36.53290	11.93314	0.2463528	0.26207003	2.4183796	21	5 30.8	18.1
28425 Sungkanit	14.5	X	103.22915	215.39112	239.35509	4.82441	0.1126992	0.24557865	2.5254706	21	3 24.9	17.8
28426 Sangani	14.9	X	171.19456	78.86712	128.16910	3.49137	0.0162593	0.22237416	2.6982354	21	11 9.5	18.6
28427 Gidwani	15.3	X	273.18560	258.65966	350.18643	1.47456	0.1523685	0.24214237	2.5493073	21	1 7.6	19.0
28428 Ankurvaishnav	15.3	X	200.51296	320.48392	347.09610	1.79355	0.1481056	0.28716421	2.2753550	21	1 4.2	18.7
28429 1999 XF_{75}	15.0	X	250.59591	46.75770	238.61967	5.25627	0.2205739	0.28716866	2.2753315	21	1 19.4	18.8
28430 1999 XP_{124}	15.4	X	240.55079	267.24543	18.87654	7.09086	0.1255431	0.28856277	2.2679972	21	1 16.9	18.8
28431 1999 XO_{136}	14.6	X	73.93843	92.34680	98.37050	7.44102	0.1401451	0.29049789	2.2579140	21	7 1.5	17.0
28432 1999 XY_{168}	13.4	X	302.22974	210.88363	272.61098	12.17916	0.1157712	0.22596730	2.6695557	21	—	—
28433 Samarquez	14.3	X	168.69548	329.42402	2.24221	3.98851	0.1704887	0.23382006	2.6094454	21	1 14.6	18.4
28434 1999 XL_{176}	14.5	X	202.10875	127.85972	78.41193	11.20576	0.1930349	0.26368712	2.4084822	21	12 3.7	18.0
28435 1999 XW_{209}	14.1	X	276.26662	232.20428	349.81504	10.71586	0.0383770	0.18886017	3.0086786	21	1 1.3	18.6
28436 1999 XJ_{230}	15.7	X	257.90472	351.11325	358.27319	4.93336	0.1027817	0.29991261	2.2104103	21	4 26.3	18.5
28437 1999 YJ_{16}	14.7	X	91.20123	312.89129	308.72495	5.06451	0.1394910	0.30062917	2.2068965	21	10 31.8	17.9
28438 Venkateswaran	15.8	X	244.66182	242.12186	333.09436	1.60882	0.1590116	0.27130533	2.3631820	21	—	—
28439 Miguelreyes	14.5	X	162.43378	118.74691	87.81085	4.33288	0.0962684	0.21465871	2.7625090	21	10 27.2	18.7
28440 2000 AN_{40}	15.1	X	56.94919	175.70580	93.66832	9.09621	0.2128077	0.29967606	2.2115733	21	10 19.0	18.0
28441 2000 AE_{43}	16.0	X	106.39965	232.22851	109.32329	24.16131	0.0833571	0.36578382	1.9363613	21	—	—
28442 Nicholashuey	15.2	X	195.81481	184.18731	32.65573	2.93562	0.1397840	0.26424148	2.4051125	21	12 15.2	18.6
28443 Crisara	15.8	X	65.35867	55.04790	175.54505	1.35402	0.1222962	0.29630590	2.2283112	21	8 14.6	18.0
28444 Alexrabii	15.1	X	3.68897	111.95880	131.76085	6.75442	0.1510423	0.28917089	2.2648164	21	5 8.9	16.9
28445 2000 AQ_{95}	14.0	X	163.67503	140.80213	136.92173	13.65250	0.1024153	0.22139520	2.7061836	21	—	—
28446 Davlantes	15.0	X	353.03903	103.12245	96.47163	3.98595	0.1714608	0.28014518	2.3132041	21	2 2.3	17.3
28447 Arjunmathur	15.1	X	65.43940	54.38694	126.19480	4.06390	0.1219422	0.28773692	2.2723348	21	5 30.3	17.4
28448 2000 AN_{97}	14.2	X	288.62630	87.64184	119.92435	8.59180	0.1664369	0.27196477	2.3593604	21	—	—
28449 Ericlau	14.6	X	11.69739	221.50947	213.68655	4.25537	0.0694600	0.22627443	2.6671395	21	—	—
28450 Saravolz	15.1	X	123.27671	353.49194	156.93989	4.29353	0.0948750	0.29446438	2.2375918	21	7 3.6	18.1
28451 Tylerhoward	15.4	X	208.40016	15.51609	207.27010	1.71037	0.1733515	0.26588648	2.3951822	21	—	—
28452 Natkondamuri	15.2	X	246.65902	272.58531	305.59525	7.35843	0.1915690	0.26931987	2.3747822	21	—	—
28453 Alexcecil	14.9	X	192.30821	18.51043	259.63846	3.18082	0.0505136	0.22747381	2.6577561	21	—	—
28454 2000 AF_{137}	14.0	X	54.23348	19.72429	146.94648	15.64154	0.1945236	0.23761527	2.5815853	21	5 9.8	17.1
28455 2000 AV_{137}	13.9	X	48.31037	209.16390	344.78024	15.13501	0.1679849	0.23927101	2.5696620	21	5 24.4	17.0
28456 2000 AY_{137}	13.8	X	47.05041	214.14535	19.38163	7.35670	0.1445273	0.24306180	2.5428744	21	7 24.5	16.8
28457 Chloeanassis	14.9	X	256.32420	326.83388	283.70620	6.23980	0.0822658	0.27473793	2.3434569	21	—	—
28458 2000 AL_{144}	14.4	X	65.34994	51.12995	145.43611	18.20771	0.1643449	0.24264551	2.5457820	21	7 1.9	17.8
28459 2000 AW_{144}	14.3	X	230.70042	36.50730	157.60538	1.50566	0.3013772	0.16997038	3.2276558	21	11 22.4	19.4
28460 Ariannepapa	14.8	X	101.09210	298.49053	129.94627	4.45538	0.0684986	0.23679208	2.5875650	21	2 12.3	18.1
28461 2000 AL_{164}	13.6	X	93.49792	25.30716	239.69661	6.84713	0.1380910	0.25245428	2.4794055	21	11 2.8	17.1
28462 2000 AO_{164}	14.2	X	309.46240	348.33678	266.97564	4.97764	0.1113563	0.27886466	2.3202800	21	2 21.7	17.2
28463 2000 AG_{168}	15.4	X	344.92978	88.59496	60.83528	7.58078	0.0628914	0.27071962	2.3665893	21	—	—
28464 2000 AZ_{185}	14.5	X	83.20260	159.55739	208.22241	14.68509	0.1065636	0.23434424	2.6055527	21	—	—
28465 Janesmyth	14.2	X	242.68040	44.77130	186.12086	1.99601	0.1778687	0.26751505	2.3854514	21	—	—
28466 2000 AV_{243}	14.0	X	257.06010	240.67253	355.76171	11.80592	0.2200634	0.22434442	2.6824144	21	—	—
28467 Maurentejamie	15.0	X	161.57639	80.31350	49.36941	6.97172	0.1257262	0.29439502	2.2379433	21	7 23.9	18.3
28468 Shichangxu	13.8	X	355.34825	219.26105	26.29487	9.72907	0.0598366	0.23777990	2.5803936	21	5 2.7	16.9
28469 2000 BU_8	13.2	X	206.92016	259.39144	40.47876	8.23419	0.2055534	0.18614417	3.0378740	21	1 18.7	18.5
28470 2000 BJ_{12}	15.7	X	84.02457	129.28042	131.99148	2.62929	0.1756778	0.25430499	2.4673616	21	10 25.2	19.2
28471 2000 BZ_{13}	15.2	X	282.73960	99.26466	81.16246	3.19420	0.1464992	0.27029961	2.3690402	21	—	—
28472 2000 BE_{14}	14.4	X	14.16340	88.57136	129.06633	14.12996	0.1069150	0.23970843	2.5665349	21	4 30.9	17.5
28473 2000 BF_{15}	13.8	X	30.29407	103.48834	47.89248	10.78776	0.0428542	0.18866789	3.0107225	21	3 4.4	17.9
28474 Bustamante	15.5	X	56.44656	120.65203	108.59410	5.77557	0.1177994	0.29297402	2.2451738	21	7 29.1	17.7
28475 Garrett	15.3	X	68.99601	349.59897	164.50980	4.74709	0.1219898	0.28581535	2.2825082	21	4 26.3	17.5
28476 2000 CK_2	15.5	X	86.87860	28.57511	118.42852	6.30576	0.0922043	0.28681730	2.2771894	21	5 10.9	18.1
28477 2000 CB_4	14.0	X	119.66904	94.10998	137.89567	15.65903	0.1067890	0.20480190	2.8504498	21	10 18.3	18.6
28478 2000 CR_{24}	15.6	X	143.34217	28.36649	267.48510	0.97497	0.1582669	0.31362924	2.1454827	21	—	—
28479 Varlotta	15.1	X	349.84777	61.96738	157.97053	4.48978	0.0909243	0.28380587	2.2932697	21	3 9.7	17.3
28480 Seojinyoung	15.1	X	238.83772	292.94774	306.11454	1.85734	0.1789618	0.27054237	2.3676228	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
28481 Shindongju	15.6	X	186.27440	56.47057	171.20987	1.20448	0.1416980	0.26314531	2.4117871	21	12 18.8	19.2
28482 Bauerle	14.9	X	160.89966	53.66959	178.28916	2.07221	0.1747391	0.21339291	2.7734226	21	11 22.5	19.4
28483 Allenyuan	15.3	X	13.35037	104.92866	103.13266	1.08235	0.1497335	0.28424198	2.2909234	21	3 29.9	16.9
28484 Aishwarya	15.3	X	66.69965	55.32072	219.77726	4.71649	0.1746069	0.29993540	2.2102983	21	10 28.2	18.1
28485 Dastidar	14.9	X	278.83616	56.94279	188.61085	5.62040	0.1786471	0.27539656	2.3397190	21	—	—
28486 2000 CZ_{51}	15.2	X	80.09868	135.93978	169.67438	4.69779	0.1423895	0.30530405	2.1843103	21	12 19.9	18.3
28487 2000 CB_{58}	14.6	X	310.36755	253.13586	339.23606	12.12165	0.0678378	0.23224980	2.6211939	21	2 12.2	18.1
28488 Gautam	14.6	X	42.15227	47.90489	123.54687	9.23778	0.0470504	0.28196549	2.3032376	21	4 1.6	17.2
28489 2000 CN_{58}	12.7	X	280.91674	5.47628	163.48424	22.77035	0.0592626	0.17341999	3.1847104	21	—	—
28490 2000 CQ_{58}	13.0	X	53.16406	294.61089	148.77875	16.82504	0.1640026	0.18029266	3.1032542	21	1 13.9	16.8
28491 2000 CC_{59}	14.0	X	44.85337	49.08125	149.90167	14.03146	0.1997124	0.23791854	2.5793910	21	6 7.2	16.9
28492 Marik	14.7	X	350.31735	255.90521	20.19235	6.60635	0.1308442	0.28588137	2.2821568	21	5 31.0	16.7
28493 Duncan–Lewis	15.9	X	323.73007	359.74190	192.16770	2.95488	0.0597608	0.27542148	2.3395779	21	—	—
28494 Jasmine	15.3	X	23.39363	45.06279	276.22108	3.27888	0.1662158	0.29928271	2.2135107	21	10 30.3	17.5
28495 2000 CA_{64}	14.8	X	46.28350	241.84350	330.05031	11.16444	0.0930587	0.28744165	2.2738907	21	6 7.7	17.3
28496 2000 CR_{68}	14.5	X	135.04702	135.87243	139.00022	5.45112	0.1371144	0.17174804	3.2053456	21	12 14.2	19.6
28497 2000 CJ_{69}	15.7	X	230.36906	30.97739	227.02143	0.11771	0.1883300	0.27238287	2.3569454	21	—	—
28498 2000 CL_{70}	14.3	X	127.50527	85.51601	194.90864	11.79354	0.2121518	0.25941083	2.4348786	21	12 26.9	18.6
28499 2000 CG_{75}	15.2	X	45.81924	9.35931	277.44827	5.54180	0.2325516	0.29916427	2.2140949	21	10 24.4	17.8
28500 2000 CW_{76}	15.4	X	284.64128	339.49097	346.10009	6.80701	0.1473796	0.28813385	2.2702474	21	4 20.4	18.4
28501 2000 CO_{79}	16.7	X	177.45531	142.48540	155.83815	1.55357	0.1936077	0.27087755	2.3656694	21	—	—
28502 2000 CV_{79}	13.9	X	198.53654	155.66561	160.08364	12.08968	0.1895611	0.22850150	2.6497812	21	1 21.6	18.4
28503 Angelazhang	14.8	X	135.80922	276.71605	10.89089	2.31047	0.1899675	0.26351232	2.4095472	21	—	—
28504 Rebeccafaye	15.0	X	207.99402	278.78020	349.22117	6.53655	0.0963772	0.27095562	2.3652149	21	—	—
28505 Sagarrambhia	15.4	X	301.46977	213.86398	353.41768	5.45032	0.1346799	0.27480721	2.3430630	21	—	—
28506 2000 CR_{83}	14.6	X	345.76669	264.39630	16.17603	3.41925	0.2003337	0.28911532	2.2651066	21	5 20.1	16.1
28507 2000 CD_{87}	15.2	X	103.91991	297.07373	343.49408	5.46237	0.1471429	0.30439526	2.1886558	21	12 11.4	18.5
28508 Kishore	14.8	X	174.79133	223.04799	41.95483	5.62164	0.1099077	0.26406754	2.4061685	21	—	—
28509 Feddersen	15.5	X	33.22427	216.62362	13.93378	2.21185	0.0450085	0.28928018	2.2642460	21	6 9.5	17.8
28510 2000 CC_{95}	13.6	X	331.25770	75.78141	166.70979	15.25405	0.0512503	0.23331588	2.6132032	21	3 28.1	16.9
28511 Marggraff	15.3	X	299.62510	1.30394	163.90261	2.44897	0.1438061	0.26813347	2.3817821	21	—	—
28512 Tanyuan	14.7	X	318.02219	189.75825	41.27950	3.62235	0.1483035	0.23175674	2.6249103	21	2 8.0	18.1
28513 Guo	16.2	X	130.84615	146.55095	149.39856	2.72077	0.2099701	0.26482275	2.4015918	21	—	—
28514 2000 DQ_{2}	15.3	X	49.76282	174.55817	341.20648	8.41814	0.0677290	0.28214022	2.3022866	21	3 16.6	17.8
28515 2000 DK_{3}	14.7	X	355.72405	278.44476	352.58164	8.46727	0.1557550	0.24241543	2.5473925	21	6 4.5	17.4
28516 Möbius	14.6	X	334.57797	200.21983	337.55880	8.53862	0.0865488	0.22899150	2.6459998	21	1 2.1	18.1
28517 2000 DD_{7}	14.1	X	99.85681	51.25311	72.04941	8.50463	0.0438700	0.28415026	2.2914164	21	4 19.0	16.8
28518 2000 DE_{7}	14.6	X	106.97977	205.57469	82.68063	7.21395	0.1264668	0.25741885	2.4474236	21	12 16.0	18.2
28519 Sweetman	14.5	X	309.40770	259.65982	33.27206	5.07084	0.1502855	0.28438707	2.2901441	21	4 11.6	17.1
28520 2000 DH_{16}	14.5	X	169.09076	194.41510	8.91621	4.68881	0.0727512	0.30119088	2.2041518	21	11 8.5	17.4
28521 Mattmcintyre	16.0	X	259.98678	338.30053	242.03114	2.02683	0.0821537	0.27176083	2.3605406	21	—	—
28522 2000 DP_{34}	15.8	X	161.34223	280.78090	9.73988	0.93526	0.1327563	0.31364294	2.1454202	21	—	—
28523 2000 DH_{50}	14.4	X	114.46679	3.79971	311.39614	0.22351	0.1937872	0.17169179	3.2060456	21	—	—
28524 Ebright	15.5	X	215.25530	288.35323	358.71584	2.69368	0.1876524	0.27221740	2.3579004	21	—	—
28525 Andrewabboud	15.6	X	354.86151	15.63404	306.54006	3.74437	0.1866965	0.29574326	2.2311365	21	9 1.9	17.0
28526 2000 DV_{65}	16.3	X	338.85100	156.59026	326.69972	1.48363	0.0207638	0.31597470	2.1348523	21	—	—
28527 Kathleenrose	15.5	X	236.61722	114.83925	179.76750	5.42479	0.1505882	0.27580320	2.3374187	21	1 22.4	19.2
28528 2000 DC_{70}	14.8	X	243.50407	146.01649	154.04728	7.40197	0.2184048	0.27671234	2.3322962	21	2 2.5	18.8
28529 2000 DQ_{70}	13.7	X	96.37809	283.60656	349.46780	8.33004	0.1595916	0.20868559	2.8149741	21	11 9.9	18.2
28530 Shiyimeng	15.7	X	6.45349	3.49275	213.52708	0.27526	0.1446959	0.23669958	2.5882391	21	4 7.3	18.0
28531 Nikbogdanov	15.1	X	73.34324	134.67604	158.41998	3.41983	0.1794381	0.25410359	2.4686651	21	11 23.2	18.6
28532 2000 DE_{78}	14.8	X	150.68710	158.80934	186.87989	5.60792	0.2767371	0.27265826	2.3553581	21	1 16.7	18.4
28533 Iansohl	15.6	X	317.20717	317.04165	236.91749	1.37706	0.1625582	0.27386311	2.3484448	21	—	—
28534 Taylorwilson	15.3	X	2.02816	257.17467	352.78483	7.50013	0.0727899	0.28927701	2.2642625	21	5 13.7	17.7
28535 Sungjanet	15.6	X	273.63969	161.68352	62.28215	3.81436	0.0546991	0.27455701	2.3444862	21	—	—
28536 Hunaiwen	14.9	X	4.64897	180.93720	47.34360	4.12048	0.1460592	0.23919414	2.5702125	21	4 20.9	17.3
28537 Kirapowell	15.1	X	337.74631	207.44239	87.47262	5.79626	0.0695733	0.24374396	2.5381277	21	6 15.1	17.7
28538 Ruisong	15.1	X	199.39249	251.63801	54.81746	6.87939	0.1384105	0.27272123	2.3549955	21	1 3.9	18.7
28539 2000 EO_{3}	14.6	X	234.61445	267.15413	40.25472	2.37809	0.2843841	0.22946829	2.6423333	21	2 9.4	19.3
28540 2000 EC_{4}	14.4	X	336.02662	232.30272	350.64439	4.44704	0.1975294	0.18405811	3.0607845	21	2 24.4	18.2
28541 2000 ED_{6}	15.1	X	202.08000	115.63740	107.72872	0.64298	0.2046441	0.26098158	2.4250991	21	12 22.8	18.5
28542 Cespedes–Nano	14.9	X	98.94536	323.74549	324.34783	2.90977	0.1512826	0.21099214	2.7944212	21	12 2.3	19.2
28543 Solis–Gozar	15.1	X	277.72977	24.35421	173.02829	6.06900	0.0680537	0.26947911	2.3738466	21	—	—
28544 2000 EM_{19}	16.0	X	336.82082	333.31271	98.26153	2.56688	0.0613441	0.30964414	2.1638516	21	—	—
28545 2000 ED_{20}	15.1	X	0.44709	329.27863	185.72037	24.30959	0.1999105	0.27474474	2.3434181	21	—	—
28546 2000 EE_{20}	12.6	X	169.70642	128.61629	184.14263	9.33624	0.0675038	0.17465233	3.1697119	21	—	—
28547 Johannschröter	15.5	X	76.56937	331.60471	258.61911	6.35164	0.0851269	0.29443406	2.2377454	21	8 21.2	18.3
28548 2000 EY_{25}	15.6	X	123.59809	234.02312	173.81463	3.31367	0.0765702	0.27679168	2.3318504	21	2 7.7	18.3
28549 2000 EZ_{25}	14.7	X	78.97903	274.64635	7.73561	7.27631	0.0828335	0.25292477	2.4763297	21	11 1.1	18.2
28550 2000 EC_{26}	14.1	X	166.31843	99.83846	176.41013	5.87441	0.1269439	0.26256471	2.4153412	21	—	—
28551 Paulomi	14.9	X	239.78268	210.76888	30.56652	2.70289	0.1688645	0.26802900	2.3824010	21	—	—
28552 2000 EY_{38}	13.9	X	290.82699	276.23556	351.50680	6.49256	0.1683274	0.23103256	2.6303927	21	2 18.9	17.6
28553 Bhupatiraju	15.5	X	35.81543	336.72439	357.09351	1.72941	0.1464016	0.30064801	2.2068043	21	12 4.2	17.9
28554 Adambowman	14.9	X	6.16446	263.20210	25.57677	4.35178	0.1646958	0.24285288	2.5443325	21	7 30.6	17.2
28555 Jenniferchan	15.2	X	3.27707	332.57430	146.21464	1.86802	0.0343522	0.26977401	2.3721163	21	—	—
28556 Kevinchen	14.3	X	334.59457	189.59258	146.02783	2.74622	0.1665172	0.24546171	2.5262726	21	8 1.6	16.6
28557 Lillianchin	14.9	X	284.61261	140.87613	18.48359	5.97991	0.0914175	0.26511245	2.3998419	21	—	—
28558 Kathcordwell	14.7	X	215.01864	38.82697	235.31109	1.37952	0.1317529	0.26863657	2.3788075	21	—	—
28559 Anniedai	14.4	X	124.02324	272.92435	355.78589	6.08378	0.1216647	0.25619177	2.4552323	21	12 7.4	18.2
28560 2000 EO_{48}	13.9	X	344.07519	201.52523	14.65582	7.23404	0.0525363	0.23244466	2.6197288	21	3 11.2	17.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
28561 2000 EP_{48}	14.2	X	263.20579	203.86799	37.62830	1.55241	0.1343366	0.17727309	3.1383943	21	1 2.0	19.1
28562 2000 ET_{48}	14.8	X	219.33673	151.31676	188.30017	11.39665	0.2362250	0.27664166	2.3326934	21	3 1.7	18.9
28563 Dantzler	15.7	X	39.93852	303.49105	213.01623	1.09636	0.0549604	0.28048666	2.3113262	21	3 2.4	18.1
28564 Gunderman	14.9	X	278.74903	146.07752	163.33013	4.76451	0.1846631	0.28244934	2.3006065	21	3 21.7	18.1
28565 2000 EO_{58}	15.0	X	91.79582	150.06045	185.13700	5.33777	0.2849780	0.30650756	2.1785888	21	—	—
28566 2000 EV_{59}	16.2	X	31.80029	21.88511	32.38742	0.62750	0.1101397	0.31343026	2.1463906	21	—	—
28567 2000 EA_{61}	14.9	X	37.78236	266.85764	354.48312	14.18618	0.1477092	0.24442660	2.5333998	21	8 21.7	17.8
28568 Jacobjohnson	15.6	X	60.61816	288.34844	268.05343	0.60829	0.0842944	0.24093767	2.5577980	21	6 10.4	18.6
28569 Kallenbach	15.8	X	234.56474	11.77583	3.23787	2.96526	0.1421114	0.28637150	2.2795521	21	5 2.9	19.2
28570 Peterkraft	15.9	X	22.72181	208.17783	13.66545	5.98234	0.1134097	0.28706507	2.2758789	21	5 9.7	17.9
28571 Hannahlarson	15.4	X	272.34856	244.00066	51.42996	7.21549	0.1094470	0.28195157	2.3033134	21	3 7.9	18.6
28572 Salebreton	14.8	X	148.66700	122.59917	118.07797	5.37294	0.1579776	0.25819927	2.4424895	21	11 28.7	18.7
28573 2000 EG_{81}	14.8	X	341.72587	265.85852	43.41592	3.92019	0.1609292	0.24574727	2.5243152	21	7 7.1	17.0
28574 2000 EV_{88}	15.2	X	266.72602	192.45583	98.51014	6.31221	0.2035919	0.27971124	2.3155959	21	2 13.9	18.9
28575 McQuaid	15.8	X	238.67708	155.79785	193.56886	2.73285	0.1944257	0.28269834	2.2992554	21	4 1.3	19.4
28576 2000 EP_{96}	14.2	X	70.63285	245.37715	65.88169	6.34438	0.1285067	0.25521927	2.4614654	21	12 6.3	17.6
28577 2000 EW_{96}	13.8	X	291.77328	303.95164	352.59950	13.11505	0.1476522	0.23327542	2.6135054	21	3 27.3	17.3
28578 2000 EE_{97}	14.7	X	199.72817	293.94742	326.08763	5.64679	0.0827295	0.26468624	2.4024174	21	—	—
28579 2000 EQ_{97}	14.1	X	60.75361	187.63479	52.12422	3.89662	0.1544382	0.28817734	2.2700190	21	8 29.1	16.6
28580 2000 EJ_{104}	15.0	X	17.26131	350.08807	186.13022	6.17959	0.0768972	0.27837935	2.3229759	21	2 20.2	17.5
28581 2000 ER_{105}	15.5	X	211.50191	13.00466	97.48649	6.94861	0.1199468	0.29652856	2.2271956	21	8 22.4	18.6
28582 2000 EB_{106}	13.9	X	267.21481	0.17130	155.14769	13.40777	0.0776999	0.21592203	2.7517232	21	12 24.3	17.7
28583 Mehrotra	15.2	X	58.07127	155.50895	66.27093	5.82337	0.1926137	0.24205002	2.5499557	21	8 1.9	18.3
28584 2000 ER_{110}	15.4	X	289.39613	46.95774	85.95783	3.38234	0.1387863	0.26419626	2.4053869	21	—	—
28585 2000 EY_{110}	14.8	X	249.92253	250.01990	72.96582	6.18971	0.1682145	0.28041196	2.3117367	21	3 14.5	18.4
28586 2000 EB_{113}	13.9	X	239.70267	181.65181	62.63257	1.95392	0.1597530	0.17384073	3.1795698	21	—	—
28587 Mundkur	14.7	X	64.48615	78.92189	12.47313	6.72529	0.0678256	0.27392966	2.3480644	21	1 12.1	17.3
28588 2000 EL_{114}	13.5	X	286.05981	254.49921	19.40971	2.45229	0.1942927	0.18241962	3.0790851	21	2 24.7	18.2
28589 2000 EL_{126}	15.4	X	98.27758	142.45020	102.76134	3.22635	0.0683477	0.29848757	2.2174400	21	10 14.3	18.1
28590 2000 EX_{126}	15.0	X	171.26402	287.37298	28.78821	8.18291	0.1336423	0.27027938	2.3691584	21	—	—
28591 2000 EC_{130}	14.9	X	183.34220	246.89928	54.84038	2.55005	0.1931139	0.26852286	2.3794790	21	—	—
28592 O'Leary	14.7	X	355.34692	326.79630	348.43074	2.28730	0.1510036	0.24680713	2.5170832	21	8 16.6	16.8
28593 2000 EZ_{133}	14.1	X	343.06320	145.32105	128.38140	10.94850	0.0631357	0.19263921	2.9692009	21	5 30.2	18.1
28594 2000 EF_{134}	13.7	X	164.94410	201.37176	67.72992	9.10597	0.1840105	0.21459745	2.7630347	21	—	—
28595 2000 EP_{136}	13.6	X	265.80668	182.55411	126.48697	11.72018	0.0804004	0.18935466	3.0034383	21	4 2.7	18.1
28596 2000 EK_{137}	15.0	X	48.81842	112.52810	155.81708	14.13536	0.0202669	0.24727688	2.5138945	21	8 24.8	18.0
28597 2000 ER_{137}	13.9	X	125.66843	343.60147	177.95780	15.95642	0.0669238	0.24247641	2.5469655	21	7 16.8	17.8
28598 Apadmanabha	15.3	X	210.20398	110.29048	152.17886	5.99002	0.0718920	0.26598796	2.3945729	21	—	—
28599 Terenzoni	14.3	X	15.64774	128.69935	135.70195	14.47837	0.1385217	0.24117721	2.5561041	21	7 8.4	17.0
28600 Georgelucas	14.9	X	196.91073	315.00503	3.15130	7.50558	0.1307124	0.27381189	2.3487377	21	1 16.9	18.5
28601 Benton	15.3	X	68.01139	67.62221	215.75314	2.71582	0.1427492	0.29670131	2.2263310	21	11 5.6	18.0
28602 Westfall	15.0	X	242.63664	323.16709	340.72385	2.95669	0.0450960	0.23042768	2.6349939	21	2 22.2	18.7
28603 Jenkins	14.5	X	133.15991	173.83643	358.00831	2.54154	0.1025450	0.24605190	2.5222312	21	8 14.9	18.0
28604 2000 EB_{151}	14.2	X	303.17087	196.82980	67.07980	2.39328	0.1568042	0.18471471	3.0535267	21	3 8.9	18.3
28605 2000 ER_{152}	15.3	X	356.79738	102.12921	123.70843	3.59517	0.0738777	0.23742913	2.5829344	21	4 9.8	18.2
28606 2000 ES_{154}	15.0	X	101.29436	54.62185	81.10394	7.16944	0.0426699	0.28431322	2.2905407	21	5 7.3	17.7
28607 Jiayipeng	14.3	X	64.27376	349.86243	266.30859	4.49595	0.1328486	0.29352240	2.2423766	21	9 18.9	17.0
28608 2000 EU_{157}	14.6	X	294.45406	359.85001	230.69719	5.57469	0.1101988	0.22808976	2.6529691	21	1 13.2	18.5
28609 2000 EL_{158}	14.6	X	329.81432	293.47641	289.47768	10.94348	0.2232356	0.23101424	2.6305317	21	1 29.7	17.9
28610 2000 EM_{158}	12.9	X	324.58518	333.36569	316.89459	15.67640	0.2430623	0.23667208	2.5884395	21	4 11.3	16.3
28611 Liliapopova	15.2	X	79.76778	179.63553	57.57154	4.91562	0.1812067	0.29492970	2.2352377	21	9 24.9	18.1
28612 2000 FE_{2}	14.7	X	299.37237	178.32226	67.10745	0.79109	0.0975303	0.18263652	3.0766468	21	2 17.6	18.9
28613 2000 FG_{5}	13.8	X	355.38094	7.53967	117.04966	12.57080	0.0401838	0.22174861	2.7033074	21	—	—
28614 Vejvoda	14.5	X	71.13369	163.58199	152.80466	3.04956	0.1638847	0.30031759	2.2084227	21	12 25.5	17.5
28615 2000 FS_{10}	14.1	X	67.28938	224.75917	356.32631	3.13145	0.0803160	0.19498375	2.9453513	21	7 24.8	18.1
28616 2000 FD_{11}	13.5	X	114.69099	233.21672	41.71764	15.17675	0.2796667	0.21127686	2.7919101	21	12 5.6	18.6
28617 2000 FB_{13}	13.6	X	345.93431	320.02242	113.05630	16.14533	0.0320674	0.17039058	3.2223472	21	12 21.7	18.2
28618 Scibelli	15.1	X	358.36164	122.78366	123.41568	7.67735	0.0965800	0.28487113	2.2875491	21	5 6.7	17.4
28619 2000 FP_{24}	13.8	X	118.01387	177.26722	160.67547	19.93060	0.1591424	0.17088488	3.2161302	21	—	—
28620 2000 FE_{26}	14.4	X	280.56019	303.83823	40.13353	4.62563	0.1108453	0.28706298	2.2758899	21	5 19.3	17.1
28621 2000 FZ_{28}	15.4	X	102.83412	251.37642	316.65186	3.26334	0.0119069	0.29277541	2.2461891	21	8 17.7	17.9
28622 2000 FJ_{29}	14.3	X	30.86416	346.61680	328.59622	2.18014	0.1321786	0.20318884	2.8655158	21	10 11.9	17.9
28623 2000 FX_{29}	15.4	X	254.73887	86.69134	27.75061	6.34963	0.1125505	0.25599055	2.4565188	21	10 16.5	18.3
28624 2000 FM_{31}	14.6	X	73.48763	55.51731	66.65978	8.91520	0.0787632	0.28134141	2.3066424	21	3 15.4	17.2
28625 Selvakumar	15.0	X	204.43540	199.33126	131.78837	4.01532	0.0575357	0.27580955	2.3373828	21	2 4.9	18.2
28626 Meghanshea	15.0	X	168.53800	126.60131	40.88223	5.36462	0.1184097	0.25119740	2.4876692	21	9 18.2	18.8
28627 2000 FH_{33}	14.1	X	335.96553	85.38680	162.46391	9.17743	0.1148310	0.18818609	3.0158591	21	4 9.9	17.9
28628 Kensenshi	14.5	X	252.55295	128.19938	150.88210	5.11566	0.1446541	0.18048321	3.1010695	21	2 2.3	19.5
28629 Solimano	15.2	X	229.53341	208.68967	76.70189	2.88761	0.1860135	0.22438899	2.6820592	21	1 13.5	19.7
28630 Mayuri	15.9	X	233.37050	347.01688	128.87443	4.10345	0.0825356	0.29949047	2.2124869	21	10 1.3	18.6
28631 Jacktakahashi	14.5	X	252.24457	180.91227	109.74578	2.42547	0.1273328	0.18163304	3.0879681	21	2 17.6	19.2
28632 Christraver	14.9	X	25.56369	169.51497	70.95764	3.90443	0.1166746	0.23989660	2.5651927	21	6 19.3	17.5
28633 Ratripathi	15.1	X	219.16690	322.00400	74.43567	5.55685	0.1926878	0.28753872	2.2733789	21	5 14.9	18.8
28634 2000 FR_{39}	13.9	X	195.83285	245.31340	33.11324	12.62517	0.1062727	0.21968966	2.7201716	21	—	—
28635 2000 FV_{42}	14.9	X	87.42197	266.70658	44.39518	4.19736	0.0538866	0.25914775	2.4365262	21	12 17.9	18.2
28636 Vasudevan	15.3	X	100.50760	297.48954	99.71791	5.89603	0.1069444	0.27198844	2.3592235	21	—	—
28637 2000 FB_{48}	13.3	X	167.38995	227.51565	139.71665	12.23631	0.2563855	0.22797035	2.6538955	21	3 3.9	17.9
28638 Joywang	14.7	X	307.47496	277.26131	300.76568	1.17824	0.1423432	0.22686670	2.6624955	21	1 9.9	18.3
28639 2000 FK_{49}	13.9	X	98.91143	173.05776	339.22066	9.81436	0.0462856	0.19211819	2.9745668	21	5 29.2	18.2
28640 Cathywong	14.0	X	128.53430	253.47894	260.88844	8.37708	0.1039926	0.19632968	2.9318748	21	7 14.7	18.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
28641 2000 FS_{49}	14.0	X	181.17683	336.86078	247.89328	7.01595	0.1592282	0.21096712	2.7946421	21	12 1.3	18.6
28642 Zbarsky	14.8	X	15.15643	195.71147	302.33871	5.21299	0.1235483	0.27263335	2.3555016	21	—	—
28643 Kellyzhang	14.9	X	68.29227	168.54424	8.91073	4.09661	0.1096390	0.28362830	2.2942268	21	5 26.5	17.2
28644 Michaelzhang	15.6	X	347.47580	226.69925	118.47541	5.38527	0.1283773	0.29554680	2.2321251	21	9 25.9	17.4
28645 2000 FP_{56}	14.4	X	281.95654	97.33522	164.91508	12.68109	0.1095167	0.18260555	3.0769946	21	2 14.6	19.1
28646 2000 FO_{62}	15.3	X	220.31582	23.76777	298.26579	2.19772	0.1274291	0.27588571	2.3369527	21	2 10.9	18.8
28647 2000 GW	15.0	X	301.27007	136.23108	202.62685	3.84852	0.2994125	0.23804898	2.5784487	21	5 14.6	18.4
28648 2000 GY	15.0	X	154.07711	252.98405	197.17160	4.91561	0.0360993	0.23746493	2.5826748	21	5 16.5	18.4
28649 2000 GZ_{1}	13.8	X	312.69500	184.54117	24.32510	12.65314	0.1920870	0.22597934	2.6694609	21	—	—
28650 2000 GE_{8}	13.4	X	281.35817	104.11588	188.67188	10.07382	0.0808615	0.18914474	3.0056601	21	3 26.7	17.8
28651 2000 GP_{8}	14.6	X	190.61382	160.42865	199.19488	3.11283	0.2047125	0.23315403	2.6144124	21	3 8.0	18.9
28652 Andybramante	16.1	X	238.20958	135.95118	269.18170	1.96925	0.1543918	0.29172782	2.2515632	21	6 16.7	19.1
28653 Charliebrucker	15.7	X	260.59153	73.34950	194.90839	3.09127	0.0325572	0.22860560	2.6489767	21	1 29.8	19.3
28654 Davidcaine	15.6	X	262.84514	69.92711	238.77296	1.32049	0.1801203	0.23155693	2.6264201	21	3 9.5	19.6
28655 Erincolfax	15.4	X	36.44927	230.95381	181.48709	2.85136	0.0659616	0.26524775	2.3990258	21	—	—
28656 Doreencurtin	15.0	X	84.43407	224.12232	205.48360	5.28739	0.0498162	0.27343601	2.3508897	21	1 8.7	17.7
28657 Briandempsey	15.6	X	284.97955	88.82185	335.98100	1.39293	0.0810608	0.29890059	2.2153968	21	10 1.8	17.9
28658 2000 GC_{30}	13.9	X	72.96801	301.09792	16.46361	2.93752	0.1133935	0.20914718	2.8108308	21	12 6.8	17.9
28659 2000 GB_{36}	13.6	X	109.40593	222.58930	301.72050	1.03350	0.0420492	0.19532274	2.9419425	21	6 28.8	17.6
28660 Derbes	14.8	X	327.02912	111.95954	173.34958	3.79897	0.1574385	0.23660946	2.5888962	21	5 3.8	17.7
28661 Jimdickens	14.4	X	317.93834	151.61036	177.07145	1.96982	0.0949332	0.19587535	2.9364066	21	6 29.0	18.0
28662 Ericduran	14.4	X	132.76937	85.47747	66.83047	1.64640	0.0628640	0.24369312	2.5384807	21	7 15.1	17.7
28663 2000 GH_{43}	14.0	X	163.51225	271.58260	43.00204	1.64360	0.2131118	0.17072966	3.2180792	21	1 2.5	19.3
28664 Maryellenfay	15.4	X	44.73796	112.67994	219.58693	2.24595	0.1400125	0.29919884	2.2139244	21	12 13.1	17.9
28665 Theresafultz	14.8	X	336.57786	200.44805	145.14024	2.75381	0.0815495	0.20010504	2.8948809	21	8 22.7	18.4
28666 Trudygessler	15.5	X	116.12871	264.53695	146.42920	2.70930	0.1585396	0.27509877	2.3414072	21	2 15.8	18.0
28667 Whithagins	15.1	X	81.68277	295.35714	42.57690	4.19925	0.1156794	0.21209505	2.7847253	21	—	—
28668 2000 GF_{54}	14.9	X	293.31963	156.74899	179.44563	1.55111	0.2066189	0.28434718	2.2903583	21	5 11.5	17.7
28669 Bradhelsel	16.1	X	177.32130	339.86950	204.07220	2.78017	0.0833871	0.29904381	2.2146894	21	10 23.5	18.8
28670 2000 GO_{55}	13.9	X	134.55067	241.20823	44.55961	4.99110	0.1452088	0.21152732	2.7897058	21	—	—
28671 2000 GW_{55}	13.8	X	225.32383	213.59930	83.58276	2.32061	0.1580637	0.17720646	3.1391810	21	1 30.8	18.9
28672 Karolhiggins	14.6	X	352.97662	36.68759	183.11578	5.71603	0.0854906	0.27922420	2.3182878	21	3 15.4	17.1
28673 Valholmes	15.0	X	280.24303	136.73968	190.15929	2.84774	0.1373221	0.28207139	2.3026611	21	4 21.9	18.0
28674 2000 GZ_{59}	15.6	X	43.13358	205.48016	156.35632	2.15780	0.1936052	0.30259484	2.1973288	21	—	—
28675 Suejohnston	14.4	X	272.17241	161.95493	141.85301	1.56859	0.1566294	0.18420166	3.0591941	21	3 21.7	19.0
28676 Bethkoester	15.2	X	303.43439	17.49404	22.65226	5.40403	0.1775676	0.29632551	2.2282129	21	9 15.0	16.8
28677 Laurakowalski	15.0	X	222.93009	223.07081	234.80529	1.89760	0.0744045	0.29388767	2.2405182	21	8 19.9	17.8
28678 Lindquester	14.5	X	115.24283	193.94120	196.14815	4.23120	0.0626297	0.27029339	2.3690766	21	1 2.6	17.4
28679 2000 GY_{68}	14.2	X	109.44813	305.26318	196.87748	8.67948	0.0798716	0.19201797	2.9756017	21	6 5.9	18.5
28680 Sandralitvin	15.2	X	278.15093	166.17030	46.18841	3.14591	0.1423831	0.26817582	2.3815314	21	—	—
28681 Loseke	15.0	X	59.60579	1.83000	317.26102	1.43079	0.1621760	0.25131280	2.4869076	21	12 7.4	18.4
28682 Newhams	14.5	X	75.77741	119.69337	26.33070	4.32480	0.0458265	0.23411841	2.6072279	21	4 18.2	17.6
28683 Victorostrik	14.6	X	83.76758	355.93764	21.80541	3.61868	0.0810386	0.21734320	2.7397147	21	—	—
28684 2000 GK_{72}	14.1	X	278.34395	98.37054	113.89338	1.83354	0.1515206	0.17479341	3.1680061	21	—	—
28685 2000 GU_{72}	13.8	X	194.67529	193.92196	150.46967	1.18182	0.1459778	0.17938730	3.1136868	21	2 26.9	18.7
28686 Tamsenprofit	14.8	X	85.12779	345.16728	210.64226	1.46796	0.0831696	0.24117360	2.5561296	21	7 15.2	17.9
28687 Reginareals	14.6	X	4.10468	251.06001	54.19888	2.86891	0.0882577	0.19660633	2.9291238	21	8 13.1	18.2
28688 Diannerister	14.5	X	210.23337	202.35783	39.24400	7.77152	0.0413285	0.21621000	2.7492793	21	—	—
28689 Rohrback	15.1	X	105.76094	138.76858	196.77674	3.73482	0.1065365	0.21348403	2.7726334	21	—	—
28690 Beshellem	14.8	X	68.32115	307.49589	68.60298	2.20755	0.1945954	0.26042543	2.4285504	21	—	—
28691 2000 GC_{76}	13.6	X	270.79430	36.50050	218.55256	4.56666	0.0999187	0.22497113	2.6774304	21	1 18.9	17.6
28692 Chanleysmall	14.4	X	340.63955	304.99082	34.62249	2.22991	0.0670060	0.19880611	2.9074766	21	8 22.4	18.1
28693 2000 GS_{79}	15.0	X	135.41987	167.76737	192.29607	6.32703	0.1392541	0.26692919	2.3889405	21	1 2.3	18.1
28694 2000 GJ_{85}	12.8	X	359.30420	73.43839	119.31767	15.25709	0.0939139	0.18450441	3.0558466	21	3 10.4	16.8
28695 Zwanzig	15.5	X	119.48865	322.52781	33.88514	4.87987	0.0938871	0.26879978	2.3778445	21	—	—
28696 2000 GU_{87}	13.3	X	127.14300	215.69840	93.16589	8.63172	0.2122706	0.21300876	2.7767562	21	—	—
28697 Eitanacks	14.5	X	265.44175	14.77817	115.30551	4.89198	0.0464922	0.21127052	2.7919659	21	11 23.9	18.2
28698 Aakshi	14.7	X	303.59652	352.17036	163.07600	6.85787	0.1059711	0.26613307	2.3937024	21	—	—
28699 2000 GN_{89}	14.1	X	184.31387	189.47012	69.77938	9.22276	0.1770012	0.21481567	2.7611632	21	—	—
28700 Balachandar	14.7	X	216.56444	268.08724	112.65289	6.07922	0.1290525	0.28273292	2.2990679	21	4 26.4	18.1
28701 2000 GK_{90}	14.2	X	284.14877	79.12699	89.90215	7.66030	0.2306562	0.21931517	2.7232672	21	—	—
28702 2000 GH_{91}	13.5	X	21.16737	134.09172	165.29418	10.01857	0.1218788	0.24466562	2.5317496	21	9 9.1	16.2
28703 2000 GM_{91}	13.8	X	269.42638	169.15520	105.25588	11.06814	0.0224012	0.18217409	3.0818511	21	3 2.7	18.3
28704 2000 GU_{91}	14.5	X	104.53285	343.82781	172.44921	14.35120	0.1849452	0.24080626	2.5587284	21	6 30.4	18.5
28705 Michaelbecker	14.8	X	203.49156	348.91477	120.34295	7.19299	0.1136598	0.24687649	2.5166118	21	8 8.1	18.5
28706 2000 GC_{93}	15.3	X	353.01157	112.95774	99.87639	7.86161	0.0497567	0.23307959	2.6149690	21	3 22.2	18.6
28707 Drewbecker	15.3	X	41.47083	66.58719	224.23710	1.18625	0.0428862	0.20104179	2.8858815	21	9 13.0	19.0
28708 2000 GR_{95}	13.5	X	161.12882	107.34583	227.08349	8.48499	0.0720714	0.17448304	3.1717618	21	1 9.7	18.3
28709 2000 GY_{96}	13.6	X	294.52230	201.02494	27.59727	1.65609	0.1589310	0.17786174	3.1314659	21	1 15.9	18.3
28710 Rebeccab	14.8	X	67.46306	133.10513	240.53311	5.02899	0.1183117	0.26481623	2.4016312	21	—	—
28711 Emmaburnett	15.4	X	279.95161	321.85606	232.55696	3.70948	0.1090200	0.26839082	2.3802593	21	—	—
28712 Elizabethcorn	14.3	X	29.74613	235.52099	71.35989	2.74385	0.1384144	0.20163394	2.8802286	21	10 2.1	17.8
28713 2000 GW_{102}	14.2	X	266.74079	153.27819	145.31669	2.59464	0.0742342	0.27819821	2.3239842	21	3 6.3	17.4
28714 Gandall	14.6	X	351.42097	254.79378	68.32873	3.31949	0.1891371	0.29081707	2.2562616	21	8 28.8	15.9
28715 Garimella	15.1	X	117.35494	169.45813	122.43962	2.73897	0.0534119	0.21171941	2.7880182	21	12 19.4	19.2
28716 Calebgonser	14.5	X	256.67741	248.20519	53.14668	7.57808	0.1404873	0.27579176	2.3374834	21	2 24.6	18.1
28717 2000 GT_{106}	14.4	X	273.69660	116.26297	217.17731	14.04504	0.1563682	0.23482012	2.6020313	21	4 23.7	18.2
28718 Rivergrace	15.2	X	298.02180	332.83682	6.84874	7.31137	0.1573098	0.28624425	2.2802276	21	5 29.5	17.9
28719 Sahoolahan	15.4	X	316.63836	30.52831	119.55163	2.13492	0.1278838	0.26714719	2.3876407	21	—	—
28720 Krystalrose	14.7	X	69.60310	87.88078	148.51027	3.48614	0.1528265	0.24353294	2.5395937	21	8 31.1	18.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
28721 2000 GW_{107}	13.4	X	10.78301	61.17439	194.13964	14.24424	0.0578914	0.23886791	2.5725521	21	6 12.7	16.8
28722 Dhruviyer	14.9	X	280.97225	75.54670	89.90358	4.88144	0.1404046	0.26407932	2.4060970	21	—	—
28723 Cameronjones	15.1	X	155.62943	283.18817	142.35245	4.74956	0.1241367	0.28063063	2.3105356	21	4 20.9	18.3
28724 2000 GG_{111}	14.7	X	115.22317	242.75874	33.96212	4.66884	0.1451827	0.30205967	2.1999234	21	12 17.3	18.0
28725 2000 GB_{113}	14.6	X	211.98337	158.60594	27.79091	8.62964	0.1538596	0.25950025	2.4343192	21	11 20.3	18.2
28726 Kailey–Steiner	14.8	X	203.51529	273.20919	41.17710	3.99412	0.0728777	0.22542241	2.6738558	21	1 24.2	18.8
28727 2000 GO_{113}	14.1	X	321.25544	311.61331	221.79461	15.52474	0.2189416	0.22272687	2.6953860	21	—	—
28728 2000 GX_{121}	14.8	X	21.37886	27.25246	103.43545	8.57488	0.1716618	0.22563965	2.6721394	21	1 2.9	17.5
28729 Moivre	16.2	X	240.55075	242.72444	194.98085	3.55506	0.1074846	0.29298047	2.2451409	21	8 9.3	19.1
28730 2000 GU_{123}	13.9	X	359.93987	129.45352	77.97161	10.29057	0.0835853	0.18487059	3.0518100	21	3 31.8	17.9
28731 2000 GX_{123}	14.2	X	42.72489	177.09278	53.72713	14.62586	0.0991493	0.23946545	2.5682708	21	7 3.7	17.4
28732 Rheakamat	14.6	X	125.69100	168.65256	161.97358	6.45120	0.1578627	0.26077875	2.4263563	21	—	—
28733 2000 GY_{124}	14.3	X	320.21641	82.25211	166.75440	10.69750	0.0994010	0.18317916	3.0705677	21	3 20.9	18.3
28734 Austinmccoy	15.2	X	132.76447	38.06069	78.39910	7.40079	0.0983051	0.28435139	2.2903357	21	5 29.5	18.1
28735 2000 GX_{125}	14.2	X	78.12482	9.13178	94.10116	7.49928	0.0668353	0.27379607	2.3488282	21	2 20.9	16.9
28736 2000 GE_{133}	14.0	X	106.34662	27.83324	131.16873	9.74309	0.0668731	0.28611804	2.2808981	21	6 20.4	16.9
28737 Mohindra	14.7	X	190.48732	104.93980	129.43167	6.80533	0.0958720	0.25893117	2.4378847	21	—	—
28738 Carolinolan	14.9	X	120.29641	179.59425	162.64116	6.13018	0.0959211	0.26321031	2.4113900	21	—	—
28739 Julisauer	14.6	X	177.77570	65.24417	150.00857	8.00232	0.1508510	0.20919430	2.8104087	21	11 19.5	19.2
28740 Nathansperry	14.4	X	3.16319	336.94855	115.52997	6.56339	0.0361955	0.21715401	2.7413058	21	—	—
28741 2000 GJ_{136}	13.7	X	29.68967	255.35507	85.77490	13.89731	0.0682290	0.20482257	2.8502580	21	11 9.9	17.6
28742 Hannahsteele	14.4	X	21.53510	5.51754	96.99638	7.13399	0.0882091	0.26618950	2.3933641	21	—	—
28743 2000 GO_{142}	13.1	X	137.55789	200.41782	102.69347	10.56340	0.1404441	0.21347214	2.7727364	21	—	—
28744 2000 GK_{143}	15.2	X	317.69201	323.68555	140.80273	6.66517	0.0484693	0.26055261	2.4277600	21	—	—
28745 2000 GV_{144}	15.9	X	222.82797	224.00443	197.71556	1.54833	0.1581585	0.28970781	2.2620173	21	6 22.5	19.3
28746 2000 GB_{148}	15.6	X	135.72307	182.60135	161.16803	2.22150	0.2166735	0.26949490	2.3737539	21	—	—
28747 Swintosky	15.3	X	37.44219	306.86807	6.12982	2.04470	0.0514645	0.20364280	2.8612558	21	10 8.2	19.0
28748 2000 GH_{161}	13.8	X	205.86133	213.84861	66.00736	5.78714	0.1920403	0.26440413	2.4041260	21	—	—
28749 2000 GP_{161}	14.4	X	78.11995	212.29000	142.30445	7.33358	0.1525011	0.25885800	2.4383441	21	—	—
28750 Brennawallin	15.8	X	250.36598	169.29384	179.58179	3.67565	0.1340828	0.28286022	2.2983780	21	4 17.5	18.9
28751 2000 GT_{167}	15.6	X	0.04921	49.01073	276.24934	1.74534	0.1145980	0.24611886	2.5217737	21	9 7.3	18.1
28752 2000 GZ_{176}	15.8	X	359.40797	13.41301	323.05000	0.81405	0.1484041	0.29745228	2.2225823	21	10 5.7	17.3
28753 2000 HA	13.7	X	61.18570	350.77146	126.92585	25.78508	0.2242263	0.27628487	2.3347012	21	3 4.2	15.8
28754 2000 HV_{1}	12.9	X	139.55322	300.67448	218.59510	16.52767	0.2146970	0.19756415	2.9196489	21	8 3.9	18.2
28755 2000 HK_{4}	14.7	X	331.54129	271.12560	96.49552	3.39661	0.0748592	0.20205422	2.8762332	21	9 16.0	18.2
28756 2000 HA_{6}	14.2	X	254.05309	9.14670	3.58685	1.87504	0.1329657	0.19189339	2.9768894	21	5 27.4	18.5
28757 Seanweber	14.7	X	243.39231	112.35164	141.99196	2.22511	0.1773061	0.17345762	3.1842498	21	—	—
28758 2000 HE_{10}	13.8	X	218.64795	188.57235	141.82008	2.29132	0.1699928	0.17910754	3.1169282	21	3 3.3	18.9
28759 Joshwentzel	15.0	X	182.87624	65.65757	65.84347	3.63733	0.0608225	0.24510936	2.5286931	21	8 17.8	18.5
28760 Grantwomble	14.9	X	100.43162	0.07266	222.61365	7.80318	0.0226753	0.24552422	2.5258438	21	8 30.1	18.4
28761 2000 HU_{12}	14.3	X	116.25946	20.02162	38.25574	6.66893	0.2056977	0.27371866	2.3492710	21	3 8.7	17.3
28762 2000 HG_{13}	13.8	X	151.93461	201.42507	224.61536	8.58327	0.0191197	0.18523324	3.0478255	21	4 13.1	18.2
28763 2000 HK_{13}	13.9	X	337.46424	183.94624	24.53992	0.92894	0.1090649	0.18103857	3.0947244	21	2 20.6	17.9
28764 2000 HS_{13}	13.6	X	267.99118	80.42405	227.09340	7.12644	0.1493928	0.18233983	3.0799832	21	3 19.9	18.3
28765 Katherinewu	14.8	X	2.68714	286.28915	44.90136	1.64869	0.1191710	0.29106838	2.2549627	21	9 30.4	16.8
28766 Monge	13.5	X	289.31064	223.37482	73.66134	2.47358	0.1700933	0.18310434	3.0714041	21	3 31.4	17.9
28767 2000 HA_{17}	15.6	X	50.31470	303.31781	100.52882	2.40812	0.1748899	0.26462395	2.4027944	21	—	—
28768 2000 HP_{21}	14.7	X	151.44914	341.06551	17.38907	6.28393	0.2400667	0.26823321	2.3811917	21	2 2.5	18.4
28769 2000 HC_{26}	14.6	X	161.47706	240.61731	90.37758	3.24279	0.1085268	0.26615749	2.3935560	21	—	—
28770 Sarahrines	14.8	X	96.44546	198.49812	130.24041	7.11605	0.0647922	0.21190787	2.7863649	21	—	—
28771 2000 HF_{32}	15.5	X	39.11679	118.02775	261.90130	1.47719	0.1371473	0.30396451	2.1907230	21	—	—
28772 2000 HE_{34}	14.4	X	82.03245	323.74886	344.43635	5.19030	0.0218682	0.20869257	2.8149114	21	11 23.3	18.3
28773 2000 HU_{35}	12.8	X	350.50370	264.59311	343.22422	9.29372	0.0635094	0.18796488	3.0182247	21	4 30.5	16.9
28774 2000 HO_{36}	14.3	X	148.64076	287.16500	143.25622	13.02613	0.1496585	0.23397028	2.6083283	21	4 28.5	18.5
28775 2000 HE_{37}	13.4	X	5.09759	347.31122	168.46039	15.86978	0.0197756	0.17809619	3.1287171	21	1 30.7	17.9
28776 2000 HC_{41}	13.9	X	76.41727	97.74842	90.67058	14.18948	0.1356766	0.23919738	2.5701893	21	7 1.3	17.1
28777 2000 HK_{41}	14.7	X	263.21941	291.00175	103.65103	12.68349	0.0682510	0.24215551	2.5492151	21	7 15.3	17.9
28778 Michdelucia	14.8	X	211.25384	139.26905	54.80862	4.58503	0.0350978	0.21150462	2.7899054	21	12 6.4	18.7
28779 Acthieke	15.2	X	269.96506	290.50663	69.74925	2.95868	0.1638107	0.28402040	2.2921148	21	5 21.6	18.2
28780 Lisadeaver	15.5	X	249.77939	110.40838	256.52920	1.25705	0.1793475	0.28208229	2.3026017	21	5 5.9	19.0
28781 Timothylohr	14.4	X	228.41692	182.02793	196.32927	1.35886	0.1053860	0.18869286	3.0104568	21	5 10.5	19.0
28782 Mechling	15.9	X	242.56276	257.94338	199.43190	4.76844	0.0595745	0.29478657	2.2359611	21	9 17.3	18.5
28783 2000 HH_{49}	14.9	X	129.23083	322.87902	73.08937	3.46812	0.2112616	0.27078921	2.3661838	21	2 22.5	18.1
28784 Deringer	14.1	X	316.58858	343.18784	57.11487	2.94534	0.0632328	0.20255544	2.8714864	21	10 6.9	17.6
28785 Woodjohn	14.4	X	320.76650	171.67957	135.49148	1.18043	0.0412374	0.23720813	2.5845385	21	6 9.4	17.5
28786 2000 HA_{54}	14.2	X	264.12941	78.73577	218.59390	11.03147	0.0400309	0.22835275	2.6509318	21	3 8.3	18.0
28787 Peterpinko	14.5	X	337.46186	255.11541	76.50209	4.24267	0.1087003	0.24069612	2.5595090	21	8 6.9	17.1
28788 2000 HW_{57}	14.1	X	138.20974	280.35697	86.84703	3.26219	0.2218371	0.26683960	2.3894752	21	1 27.5	17.3
28789 2000 HE_{58}	14.6	X	187.53320	354.99473	356.21758	0.49943	0.1778151	0.17819026	3.1276158	21	3 1.4	19.8
28790 2000 HK_{58}	15.0	X	297.69773	249.96825	74.56506	0.34564	0.0512898	0.23662884	2.5887549	21	5 29.3	18.2
28791 2000 HW_{59}	14.9	X	279.34399	196.81033	133.95197	1.55500	0.0857254	0.18893934	3.0078380	21	5 11.2	19.1
28792 2000 HE_{61}	15.4	X	293.24835	134.62164	107.61085	2.93753	0.0278448	0.22699295	2.6615081	21	2 8.4	18.9
28793 2000 HM_{61}	14.2	X	359.57669	101.06439	165.60007	3.08885	0.0883753	0.23774307	2.5806601	21	6 10.3	17.0
28794 2000 HG_{64}	14.6	X	325.53318	109.21670	251.18196	7.43492	0.1877202	0.29283198	2.2458998	21	8 19.9	16.4
28795 2000 HO_{64}	15.1	X	59.56241	226.83198	290.39413	4.06282	0.0717009	0.28049564	2.3112768	21	4 4.1	17.7
28796 2000 HW_{65}	14.5	X	200.50430	240.53948	113.58274	5.01311	0.1126997	0.22656350	2.6648704	21	3 12.0	18.6
28797 2000 HH_{68}	14.1	X	243.80590	140.51763	178.75984	10.20807	0.1075220	0.18201564	3.0836393	21	3 15.5	18.9
28798 2000 HJ_{69}	14.4	X	253.05516	354.69192	2.22338	8.40246	0.1321132	0.23591618	2.5939657	21	5 1.4	18.3
28799 2000 HB_{72}	15.2	X	297.28394	212.12465	173.54911	3.32592	0.1453204	0.29229785	2.2486350	21	8 11.6	17.4
28800 Speth	14.5	X	166.32105	225.29014	191.07601	8.17052	0.1640440	0.27970402	2.3156357	21	4 22.1	18.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
28801 Maryanderson	14.9	X	162.30899	263.51553	128.31261	4.55088	0.1221525	0.27480087	2.3430991	21	3 14.7	18.2
28802 Boborino	14.6	X	133.50233	82.65619	317.86409	5.02479	0.1150353	0.27534387	2.3400175	21	2 17.3	17.4
28803 Roe	14.7	X	220.02811	293.41015	117.19162	15.74370	0.0908938	0.24009210	2.5638000	21	6 12.6	18.6
28804 2000 HC_{81}	14.6	X	288.70707	330.58573	10.77009	3.82495	0.2065945	0.23595477	2.5936829	21	5 14.5	18.2
28805 2000 HY_{85}	14.6	X	47.84892	251.59512	143.77843	5.67123	0.1814604	0.26029514	2.4293607	21	—	—
28806 2000 HH_{87}	14.5	X	126.53271	322.76876	199.51228	12.93064	0.0904842	0.24227325	2.5483891	21	7 20.3	18.4
28807 Lisawaller	15.9	X	308.38163	353.56564	44.82047	5.06847	0.1134153	0.29391211	2.2403940	21	9 30.9	17.9
28808 Ananthnarayan	14.9	X	225.78219	31.25652	344.87242	4.26394	0.0576341	0.23485477	2.6017754	21	5 3.2	18.7
28809 2000 HY_{102}	15.0	X	331.11291	289.54401	53.55460	7.21217	0.1030090	0.24726082	2.5140033	21	8 15.6	17.8
28810 Suchandler	14.7	X	102.55487	144.75749	172.28121	5.17226	0.0540101	0.21136902	2.7910985	21	—	—
28811 2000 JX_{9}	13.7	X	73.59150	308.16779	160.37761	17.20579	0.0615400	0.18088867	3.0964338	21	3 7.5	17.7
28812 2000 JS_{11}	14.8	X	190.34648	40.63887	235.14746	12.57986	0.1198073	0.21591381	2.7517930	21	—	—
28813 Jeffreykurtz	14.3	X	256.29980	215.89119	122.56181	2.47752	0.1171288	0.18512922	3.0489671	21	4 20.9	18.8
28814 2000 JA_{17}	14.2	X	97.18560	168.14256	158.61751	8.78520	0.2280009	0.21019677	2.8014660	21	—	—
28815 2000 JS_{17}	13.2	X	101.91790	160.46232	185.40991	11.99275	0.0945714	0.16795140	3.2534712	21	—	—
28816 Kimneville	15.1	X	287.67255	68.62845	97.00606	3.14403	0.1449613	0.26396850	2.4067703	21	—	—
28817 Simoneflood	14.5	X	190.12289	320.74763	291.26566	3.17091	0.0774294	0.26156871	2.4214687	21	—	—
28818 Kellyryan	14.5	X	289.63308	54.26528	317.01929	5.34683	0.1511816	0.28964752	2.2623311	21	7 6.9	16.9
28819 Karinritchey	14.4	X	237.47551	23.16981	317.03822	6.43241	0.1583084	0.27813300	2.3243474	21	3 19.2	18.0
28820 Sylrobertson	15.5	X	150.31860	89.16677	359.67136	8.99785	0.0436984	0.28227011	2.3015802	21	5 3.0	18.6
28821 Harryanselmo	14.8	X	299.89412	60.81490	353.81198	5.08411	0.1129457	0.29706740	2.2245016	21	10 7.2	16.7
28822 Angelabarker	15.8	X	210.01711	13.60810	319.19409	1.39406	0.1037024	0.22596927	2.6695402	21	2 21.2	19.9
28823 Archibald	14.6	X	312.31105	48.60204	278.73231	7.38754	0.1056976	0.23861013	2.5744046	21	6 16.0	17.5
28824 Marlablair	14.4	X	352.44359	255.77619	286.24841	4.53646	0.0983173	0.18069600	3.0986345	21	2 8.9	18.3
28825 Bryangoehring	14.2	X	124.57609	148.15684	249.73534	6.69608	0.1290112	0.22432370	2.6825795	21	2 11.2	18.1
28826 2000 JQ_{28}	14.2	X	119.04356	26.13535	341.60058	4.55751	0.0713880	0.21913311	2.7247754	21	—	—
28827 2000 JK_{29}	14.2	X	268.11168	307.50739	16.18170	4.21658	0.2178324	0.23020804	2.6366697	21	3 30.5	18.2
28828 Aalamiharandi	14.6	X	311.49230	121.31919	351.02765	3.71278	0.1444070	0.26045842	2.4283453	21	—	—
28829 Abelsky	14.8	X	11.55573	336.18152	14.62645	3.87036	0.1829935	0.24768572	2.5111274	21	11 14.0	17.3
28830 2000 JY_{30}	14.0	X	282.79398	110.14260	255.28530	10.94010	0.0910154	0.19305749	2.9649107	21	6 27.6	18.0
28831 Abu–Alshaikh	14.5	X	70.93921	147.36810	239.18990	3.83886	0.0301607	0.21537237	2.7564031	21	—	—
28832 Akana	14.6	X	199.57497	40.99113	46.29627	3.51268	0.0609876	0.19369562	2.9583951	21	7 7.6	18.9
28833 Arunachalam	15.0	X	287.20737	43.66887	45.95704	2.66010	0.0138443	0.20588261	2.8404661	21	11 3.2	18.6
28834 2000 JD_{37}	14.1	X	353.00360	320.90205	51.97290	2.87433	0.0696738	0.20195036	2.8772193	21	10 24.7	17.5
28835 2000 JX_{37}	13.4	X	182.24553	279.75703	46.53591	3.02145	0.1712970	0.17103688	3.2142245	21	1 29.3	18.6
28836 Ashmore	15.3	X	226.21494	104.98670	252.21194	2.72469	0.1581232	0.27657533	2.3330664	21	3 31.7	18.9
28837 Nibalachandar	14.9	X	218.25457	113.55592	249.73289	3.18834	0.1042790	0.23046629	2.6346996	21	4 6.6	18.8
28838 2000 JA_{41}	14.1	X	173.47411	254.36943	220.44916	14.38294	0.0703227	0.24076619	2.5590123	21	7 10.1	18.1
28839 2000 JG_{41}	14.3	X	36.10781	94.89818	74.14431	11.39214	0.1146480	0.18404089	3.0609754	21	4 8.8	18.2
28840 2000 JB_{44}	14.2	X	173.51786	82.02264	72.92555	4.74396	0.1041107	0.24579519	2.5239871	21	9 7.2	18.0
28841 Kelseybarter	14.8	X	103.88783	345.65907	77.21129	0.63045	0.1544861	0.22467231	2.6798039	21	2 23.9	18.3
28842 Bhowmik	14.7	X	323.56159	136.15720	234.13247	1.18375	0.0728937	0.19833878	2.9120419	21	9 4.5	18.2
28843 2000 JZ_{45}	13.9	X	88.33470	330.12659	83.06711	2.65747	0.1477537	0.17427649	3.1742675	21	1 31.1	18.1
28844 2000 JS_{47}	14.1	X	290.38215	111.32889	304.13483	7.82438	0.0816688	0.29496844	2.2350419	21	9 21.8	16.7
28845 2000 JP_{49}	15.1	X	96.30880	194.53722	231.49208	4.40837	0.2109698	0.27186271	2.3599508	21	2 14.5	17.7
28846 2000 JQ_{50}	14.2	X	288.14820	48.09366	260.09497	8.68350	0.1017383	0.23201648	2.6229509	21	4 13.0	18.0
28847 2000 JT_{50}	14.7	X	103.56133	192.35775	242.11598	11.56861	0.1554428	0.22678673	2.6631213	21	3 4.3	18.5
28848 Nicolemarie	14.2	X	262.55534	0.22342	49.90241	2.97511	0.0898589	0.19597665	2.9353947	21	7 31.8	18.3
28849 2000 JC_{54}	14.2	X	221.61081	314.41026	0.10189	12.56054	0.1626323	0.22611714	2.6683762	21	2 13.8	18.7
28850 2000 JS_{54}	13.5	X	118.25983	165.67847	209.06976	9.87945	0.0454127	0.17309028	3.1887533	21	1 6.2	18.1
28851 Londonbolsius	14.2	X	243.82791	306.02894	183.35185	5.31370	0.0433927	0.25174672	2.4840490	21	11 1.8	17.5
28852 Westonbraun	14.2	X	38.51912	343.17998	192.40870	3.84081	0.0909173	0.23165665	2.6256663	21	4 7.1	16.9
28853 Bukhamsin	14.5	X	35.86686	187.46038	114.29134	3.17728	0.0224211	0.19897678	2.9058138	21	9 18.9	18.4
28854 Budisteanu	14.6	X	121.15541	51.70599	101.75608	7.04115	0.1274999	0.28618926	2.2805197	21	7 9.5	17.6
28855 Burchell	14.4	X	138.44850	334.75383	133.06354	4.48163	0.0740870	0.28122929	2.3072555	21	5 22.7	17.4
28856 2000 JZ_{58}	13.6	X	206.80111	285.23725	116.84987	9.04553	0.2178054	0.23191636	2.6237058	21	5 15.3	18.2
28857 2000 JE_{59}	14.1	X	300.46597	2.48204	258.40281	11.29732	0.2176829	0.22958698	2.6414226	21	2 8.9	18.2
28858 2000 JK_{59}	14.1	X	165.72356	60.12955	253.93103	11.65668	0.1218651	0.26567958	2.3964255	21	—	—
28859 2000 JC_{60}	13.8	X	307.84714	346.32366	242.21103	10.95011	0.1356866	0.22653775	2.6650723	21	1 21.2	17.7
28860 Cappelletto	14.5	X	226.38990	337.45237	327.48707	1.98115	0.0463132	0.22441944	2.6818165	21	2 5.7	18.1
28861 2000 JF_{62}	12.2	X	230.90475	53.00792	253.35095	13.75361	0.0601232	0.17641697	3.1485395	21	2 13.0	17.2
28862 2000 JF_{65}	13.6	X	313.25310	190.52573	96.43098	16.17227	0.0114512	0.23288689	2.6164113	21	5 11.8	17.3
28863 2000 JW_{65}	13.2	X	155.42232	144.23549	187.70031	13.86383	0.1202263	0.17017728	3.2250392	21	1 6.2	18.4
28864 2000 JG_{70}	13.3	X	317.96188	308.94466	337.15447	14.18921	0.0961184	0.23672857	2.5880278	21	4 21.0	16.8
28865 2000 JX_{74}	14.6	X	358.99551	305.75509	185.57618	6.39292	0.0547661	0.26683814	2.3894839	21	—	—
28866 Chakraborty	14.7	X	38.60546	351.64484	122.86781	9.40556	0.1177067	0.27067187	2.3668676	21	—	—
28867 2000 JU_{76}	14.4	X	88.61346	147.02668	273.49617	3.12991	0.2168407	0.27039465	2.3684851	21	1 27.0	16.4
28868 Rianchandra	14.4	X	114.25911	151.35259	242.89160	4.02062	0.0911164	0.22052555	2.7132935	21	1 21.9	18.1
28869 Chaubal	14.7	X	96.34198	310.81853	158.12309	3.88493	0.0792001	0.23129014	2.6284394	21	4 3.6	18.1
28870 2000 JO_{85}	14.2	X	181.78207	72.80134	123.44163	18.03703	0.0837613	0.20955619	2.8071722	21	11 8.8	18.8
28871 2000 KA_{6}	13.9	X	331.33006	208.19392	148.64104	2.68577	0.0797848	0.19659250	2.9292611	21	8 29.6	17.5
28872 2000 KF_{6}	14.0	X	187.21699	244.57111	167.24545	4.30777	0.0800960	0.18635178	3.0356173	21	5 10.9	18.6
28873 2000 KM_{7}	13.2	X	354.32827	36.16997	90.67524	11.90348	0.0576076	0.17115195	3.2127836	21	—	—
28874 Michaelchen	15.0	X	349.80212	224.80258	223.77336	1.82929	0.1556635	0.26058268	2.4275733	21	—	—
28875 2000 KH_{18}	13.4	X	185.64723	272.46684	77.58787	6.22546	0.1551920	0.17623290	3.1507314	21	2 28.9	18.6
28876 2000 KL_{31}	13.2	X	143.70799	290.27828	70.83690	9.27026	0.0425144	0.17179129	3.2048076	21	1 22.4	17.9
28877 2000 KC_{41}	14.5	X	98.91761	155.00789	132.51634	13.85275	0.1143018	0.20629494	2.8366799	21	12 1.4	19.0
28878 Segner	14.7	X	282.56030	48.10879	319.52928	0.39331	0.1951226	0.23778896	2.5803280	21	6 13.9	18.2
28879 2000 KK_{42}	13.7	X	171.88617	240.99007	127.24279	20.16835	0.1120519	0.17646901	3.1479204	21	3 8.9	18.8
28880 2000 KN_{46}	13.6	X	6.01981	113.52264	133.53293	10.72481	0.0434466	0.18780073	3.0199832	21	5 29.6	17.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
28881 2000 KG_{48}	13.9	X	133.91322	227.31933	132.65166	8.13162	0.0432297	0.21728200	2.7402291	21	—	—
28882 2000 KO_{48}	13.5	X	168.66739	221.09930	113.82108	14.50729	0.1224928	0.17021154	3.2246064	21	1 24.3	18.6
28883 2000 KS_{52}	14.7	X	214.32234	208.86472	166.70827	5.23395	0.0567041	0.23319827	2.6140818	21	4 22.4	18.4
28884 2000 KA_{54}	13.5	X	222.52530	157.42823	163.58583	22.34006	0.0610117	0.18098350	3.0953521	21	2 26.4	18.1
28885 2000 KH_{56}	13.3	X	141.92195	100.24835	229.84738	8.14132	0.1610935	0.21309293	2.7760249	21	—	—
28886 2000 KX_{57}	14.6	X	165.28602	207.72256	201.61119	14.94608	0.1062633	0.23184094	2.6242747	21	4 11.0	18.5
28887 2000 KQ_{58}	13.8	X	81.55070	291.33123	100.42463	13.80035	0.2557479	0.26421278	2.4052866	21	—	—
28888 2000 KS_{60}	14.5	X	122.80989	325.72974	175.91728	5.97507	0.1265482	0.23942440	2.5685643	21	6 25.1	18.3
28889 2000 KQ_{63}	13.6	X	170.19233	312.91767	101.91451	10.38734	0.0858004	0.18635664	3.0355645	21	4 30.1	18.4
28890 2000 KY_{65}	14.7	X	211.04217	180.80286	164.62668	14.66400	0.0376566	0.22725139	2.6594899	21	3 10.8	18.3
28891 2000 KK_{75}	15.0	X	190.16662	289.51228	119.06883	6.78005	0.0887009	0.23345726	2.6121481	21	5 8.5	18.9
28892 2000 LZ_{2}	14.1	X	192.63790	65.28319	268.45325	21.43548	0.2244446	0.26185438	2.4197072	21	1 28.7	18.5
28893 2000 LL_{7}	14.8	X	31.48466	17.47822	116.94413	8.23711	0.0987844	0.27211798	2.3584747	21	1 16.9	16.9
28894 Ryanchung	14.4	X	23.72616	205.31144	181.04026	5.03466	0.1136095	0.25281343	2.4770567	21	—	—
28895 2000 LS_{9}	13.4	X	167.83813	123.39829	214.70659	0.99246	0.1306414	0.17040945	3.2221093	21	1 26.9	18.3
28896 2000 LN_{10}	14.3	X	317.16627	94.29358	190.23454	14.58630	0.1939748	0.22795643	2.6540034	21	4 11.5	17.5
28897 2000 LP_{10}	13.4	X	108.31255	352.97881	213.04489	13.80297	0.0967699	0.23739528	2.5831800	21	8 24.9	17.3
28898 2000 LX_{10}	13.9	X	229.15205	192.62250	193.75936	14.66827	0.0933807	0.23201751	2.6229431	21	5 21.5	17.9
28899 2000 LV_{11}	13.0	X	152.20168	220.46213	111.88273	24.11717	0.0540783	0.16885056	3.2419107	21	—	—
28900 2000 LH_{12}	13.6	X	256.16060	102.46325	250.82033	11.98793	0.2095775	0.22539058	2.6741076	21	4 23.3	18.0
28901 2000 LJ_{14}	13.3	X	110.25609	72.73254	235.93977	12.34847	0.2524554	0.20389217	2.8589223	21	—	—
28902 2000 LZ_{33}	14.6	X	309.55270	65.52581	244.64004	5.82034	0.1264521	0.27661928	2.3328192	21	5 10.9	17.2
28903 2000 LD_{35}	13.9	X	167.98952	265.46449	98.95638	12.43751	0.1910216	0.22351268	2.6890648	21	2 28.3	18.4
28904 2000 ML	12.9	X	146.08277	144.63081	210.86920	16.51578	0.1037563	0.17175192	3.2052973	21	1 19.5	18.0
28905 2000 MQ	13.9	X	64.00584	204.28036	185.66779	9.17717	0.1628132	0.21249579	2.7812231	21	—	—
28906 2000 MP_{2}	14.1	X	115.96195	203.37847	299.72743	8.90065	0.0203280	0.23043576	2.6349323	21	6 4.5	17.8
28907 2000 MH_{3}	14.9	X	244.76768	48.94363	220.72557	6.28528	0.0772045	0.26321064	2.4113879	21	1 3.9	18.5
28908 2000 NY_{6}	13.5	X	226.88173	64.25197	271.67221	8.13405	0.0705565	0.17481733	3.1677171	21	3 17.2	18.4
28909 2000 NC_{10}	13.7	X	50.44346	229.86916	305.15937	11.21868	0.0950049	0.22631940	2.6667862	21	4 21.1	17.2
28910 2000 NH_{11}	13.5	X	26.83948	202.83085	286.99613	8.42561	0.0826726	0.21615042	2.7497845	21	1 18.4	16.7
28911 2000 NB_{16}	13.2	X	278.14895	264.48016	320.79966	8.37164	0.0837336	0.21377433	2.7701228	21	—	—
28912 2000 NL_{26}	13.2	X	1.77932	155.45954	243.60634	8.95237	0.0950980	0.15132079	3.4876828	21	11 30.7	17.8
28913 2000 OT	12.9	X	25.71026	190.41574	312.73819	13.41693	0.2946197	0.21821088	2.7324472	21	1 26.4	14.5
28914 2000 OC_{12}	13.8	X	222.29954	167.73124	294.66916	9.56970	0.0667046	0.19074919	2.9887820	21	8 18.4	18.2
28915 2000 OU_{13}	14.2	X	179.56622	341.75834	13.80220	0.77025	0.1773784	0.17064737	3.2191137	21	2 28.7	19.5
28916 Logancollins	15.4	X	65.22572	198.65066	125.66327	7.29096	0.1398795	0.29028612	2.2590120	21	12 25.2	18.4
28917 Zacollins	14.3	X	258.64830	267.67836	141.81967	2.69961	0.1606856	0.18325132	3.0697615	21	7 15.0	18.7
28918 2000 QF_{21}	12.4	X	92.99644	329.32583	168.44388	6.82533	0.1336625	0.12485534	3.9645872	21	5 23.0	18.1
28919 2000 QP_{27}	14.5	X	329.59479	159.38341	157.65662	2.53632	0.2147477	0.27749349	2.3279171	21	6 13.8	16.4
28920 2000 QC_{91}	14.1	X	10.06461	149.94304	191.32167	11.31665	0.1361989	0.18986978	2.9980036	21	10 13.1	17.5
28921 2000 QZ_{122}	13.6	X	49.56841	352.19307	311.46539	8.12119	0.1051756	0.18919590	3.0051183	21	10 14.2	17.8
28922 2000 QK_{132}	12.7	X	125.80546	158.42772	327.10241	19.43169	0.1734392	0.17971810	3.1098648	21	6 13.9	17.9
28923 2000 QJ_{161}	13.6	X	226.41213	172.87987	236.13908	9.01781	0.0889721	0.18133780	3.0913190	21	6 16.8	18.2
28924 Jennanncsele	14.8	X	1.72971	102.75341	328.06195	1.11449	0.1292402	0.24548733	2.5260968	21	—	—
28925 2000 QY_{205}	13.8	X	311.37580	197.83846	176.35459	8.50999	0.0912035	0.18452148	3.0556581	21	8 18.1	17.8
28926 2000 QE_{231}	13.3	X	354.46253	319.89235	358.70299	10.70244	0.1143028	0.18801807	3.0176555	21	8 17.7	16.9
28927 2000 RA_{6}	14.5	X	109.66362	45.26065	24.05148	7.18833	0.0539524	0.30482753	2.1865861	21	2 12.6	17.0
28928 2000 RY_{12}	13.6	X	145.27370	227.28571	220.91291	14.57006	0.0588269	0.17567609	3.1573856	21	5 8.9	18.1
28929 2000 RU_{13}	13.6	X	344.59975	21.68416	204.78546	12.67834	0.0829308	0.17322581	3.1870899	21	3 27.9	17.7
28930 2000 RA_{31}	13.5	X	155.72001	11.60347	257.08947	8.13312	0.0713950	0.19863002	2.9091947	21	12 29.7	17.9
28931 2000 RU_{54}	13.3	X	39.79106	74.36243	291.98974	8.59473	0.1103720	0.19192419	2.9765709	21	12 23.8	17.3
28932 2000 RY_{102}	13.1	X	153.89008	220.87416	274.37863	10.93758	0.1036489	0.17733031	3.1377191	21	7 17.2	17.9
28933 2000 SZ_{22}	13.6	X	287.18990	88.38916	213.93972	4.74216	0.1080903	0.17175025	3.2053180	21	4 12.5	18.2
28934 Meagancurrie	14.4	X	66.76765	225.69925	178.28457	2.41498	0.0840554	0.20143432	2.8821311	21	—	—
28935 Kevincyr	15.1	X	338.10998	240.87111	115.53611	4.52010	0.1122917	0.27887567	2.3202189	21	9 20.9	17.2
28936 Dalapati	14.4	X	240.74560	165.40704	240.71069	4.99548	0.1013840	0.22514225	2.6760736	21	6 27.3	18.2
28937 2000 SM_{162}	14.2	X	39.42866	236.49479	67.18405	10.60452	0.0754919	0.18594828	3.0400071	21	10 5.6	18.4
28938 2000 SR_{311}	12.2	X	246.39970	84.57115	269.63062	20.33291	0.1150173	0.17405625	3.1769446	21	4 24.7	17.4
28939 2000 TO_{33}	13.9	X	213.16847	145.74028	291.19863	20.85056	0.0176101	0.22277943	2.6949621	21	7 13.3	17.6
28940 2000 UD_{1}	14.3	X	70.08196	210.73080	90.80077	2.42919	0.2438407	0.19074078	2.9888699	21	11 27.6	18.9
28941 2000 UH_{8}	14.4	X	278.05102	128.97701	227.50666	13.59724	0.1284629	0.22232729	2.6986146	21	6 3.8	18.2
28942 Yennydieguez	14.4	X	240.14932	181.30821	295.47455	1.42204	0.1272863	0.18172001	3.0869828	21	9 20.1	19.0
28943 2000 UF_{51}	14.4	X	135.40547	244.33490	185.10492	3.73020	0.0837705	0.21136345	2.7911475	21	4 3.6	18.4
28944 2000 UA_{70}	14.4	X	114.24919	115.97422	25.71327	12.31903	0.0769581	0.21788033	2.7352101	21	6 7.1	18.4
28945 Taideding	15.3	X	168.71316	351.95529	340.96839	1.63372	0.1900908	0.25271937	2.4776713	21	1 14.1	19.2
28946 2000 VW_{56}	15.3	X	138.93294	343.75151	314.64011	3.45920	0.2443966	0.29197361	2.2502994	21	—	—
28947 2000 WH_{12}	13.7	X	248.25205	352.99591	139.95033	15.38059	0.0437144	0.23501396	2.6006003	21	11 13.8	17.5
28948 Disalvo	14.8	X	133.79754	153.93660	163.29506	6.89707	0.0787594	0.24276924	2.5449169	21	—	—
28949 2000 WV_{100}	13.0	X	235.73747	353.65878	89.27014	17.11044	0.0701117	0.17290151	3.1910739	21	8 15.0	17.9
28950 Ailisdooner	14.4	X	140.48859	275.86409	326.60829	8.89157	0.0575591	0.18875768	3.0097676	21	11 8.2	19.1
28951 2000 WA_{149}	13.2	X	109.91023	262.07434	142.85050	15.46967	0.1531188	0.20449597	2.8532920	21	2 11.9	17.1
28952 Ericepstein	14.9	X	202.11143	219.38539	245.76620	1.44627	0.1706038	0.26827652	2.3809354	21	7 28.6	18.5
28953 Hollyerickson	15.2	X	12.05960	123.88904	242.94696	2.40928	0.1315292	0.23140047	2.6276039	21	11 26.8	18.1
28954 Feiyiou	14.5	X	345.95177	299.81500	115.27919	2.22964	0.1454026	0.23405813	2.6076756	21	12 21.2	17.3
28955 Kaliadeborah	16.0	X	160.26772	316.11704	267.79576	1.60441	0.1270100	0.27576182	2.3376525	21	11 20.7	19.6
28956 2001 AA_{45}	13.1	X	164.91682	159.09951	126.68492	14.91086	0.1598810	0.18448406	3.0560714	21	—	—
28957 Danielfulop	15.5	X	200.72040	102.39781	115.61435	3.28558	0.1951427	0.27373599	2.3491718	21	12 17.9	19.0
28958 2001 CQ_{42}	12.1	X	317.12506	286.34344	147.80130	8.22996	0.0838618	0.08087936	5.2955482	21	10 30.9	18.8
28959 2001 DL_{74}	12.7	X	195.19858	52.68324	214.82397	26.53633	0.1914177	0.17576875	3.1562757	21	—	—
28960 2001 DZ_{81}	12.6	X	11.33771	32.31672	339.63272	2.78823	0.0360106	0.08039425	5.3168292	21	10 26.6	19.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
28961 2001 FO_{64}	15.0	X	207.94473	169.86536	156.10211	5.43915	0.2247335	0.28790650	2.2714425	21	2 4.3	18.9
28962 2001 FL_{117}	12.9	X	108.72708	166.87189	184.71263	24.22779	0.1315466	0.17916186	3.1162982	21	—	—
28963 Tamyiu	15.4	X	158.67141	47.36724	190.63738	2.30343	0.1652594	0.26787085	2.3833386	21	12 4.8	19.1
28964 2001 FG_{122}	13.9	X	139.74012	171.74057	168.97280	3.64766	0.2365566	0.18370763	3.0646761	21	1 11.3	18.8
28965 2001 FF_{162}	14.6	X	337.93851	218.87052	49.61019	2.60285	0.0155278	0.20146643	2.8818249	21	5 16.3	18.2
28966 Yuyingshih	13.1	X	257.46610	70.58142	86.25034	22.61351	0.0358259	0.17112122	3.2131683	21	12 10.5	17.7
28967 Gerhardter	15.1	X	339.09923	266.47376	67.16769	6.77920	0.1746151	0.30006391	2.2096672	21	8 17.6	16.6
28968 Gongmiaoxin	15.0	X	152.89270	247.49379	357.62305	2.24337	0.1286359	0.21743830	2.7389159	21	12 1.2	19.4
28969 2001 HM_{57}	14.4	X	281.51986	190.13655	106.59377	13.86457	0.2405954	0.24126248	2.5555018	21	3 11.9	18.6
28970 2001 JJ_{4}	13.8	X	3.81876	341.27581	212.85752	8.88190	0.0228813	0.19074129	2.9888646	21	3 14.3	18.0
28971 2001 KM_{28}	14.7	X	24.01067	302.90066	77.87605	8.01531	0.2490735	0.26391726	2.4070818	21	—	—
28972 2001 KV_{38}	14.5	X	176.82758	246.48423	89.68058	14.03869	0.1992602	0.22899311	2.6459874	21	1 31.0	19.0
28973 2001 KN_{42}	13.9	X	344.21108	278.97700	226.64255	11.85694	0.1464244	0.22932122	2.6434629	21	—	—
28974 2001 KW_{59}	15.3	X	289.13588	72.27454	194.06014	7.33268	0.2461902	0.23419752	2.6066408	21	2 2.9	19.5
28975 2001 KR_{69}	14.9	X	90.81750	179.86533	171.23430	14.09942	0.0067351	0.22464943	2.6799859	21	—	—
28976 2001 KN_{73}	14.1	X	231.44018	24.52261	258.05636	7.34662	0.1140790	0.22646692	2.6656280	21	1 11.6	18.3
28977 2001 KP_{73}	13.7	X	213.72179	340.91231	310.00208	11.27646	0.1782274	0.22540332	2.6740068	21	1 7.7	18.1
28978 Ixion	3.6	X	290.23106	298.52068	71.02536	19.61340	0.2464250	0.00392944	39.7724607	21	6 21.7	19.5
28979 2001 LW	13.5	X	288.57798	273.14193	242.44303	17.17893	0.0639027	0.17447583	3.1718493	21	—	—
28980 Chowyunfat	14.9	X	195.60113	290.65270	107.91401	6.39141	0.1927654	0.28519188	2.2858336	21	4 28.6	18.6
28981 2001 LY_{3}	14.3	X	235.77247	258.97775	91.43773	4.50243	0.3346800	0.23439128	2.6052041	21	3 31.0	19.1
28982 2001 LJ_{17}	15.3	X	155.94735	152.57795	186.91657	2.55296	0.2397235	0.27132648	2.3630591	21	1 11.1	18.8
28983 Omergranek	15.5	X	345.34452	78.77932	216.39506	6.54542	0.1440646	0.29250485	2.2475740	21	6 21.5	17.3
28984 2001 MS_{2}	13.9	X	230.25737	297.35630	100.17864	11.39509	0.1106870	0.19178727	2.9779874	21	6 5.9	18.4
28985 2001 MP_{5}	15.1	X	329.59345	22.85344	298.15518	4.15957	0.2257978	0.29236736	2.2482786	21	6 17.8	16.5
28986 2001 MG_{13}	15.0	X	249.93781	179.30568	134.91682	7.14815	0.1513044	0.28049112	2.3113017	21	3 2.4	18.4
28987 2001 MP_{14}	16.1	X	14.60946	40.74968	253.27339	2.45492	0.1192530	0.29607050	2.2294922	21	8 23.1	18.1
28988 2001 MS_{23}	16.3	X	80.57732	160.48165	114.56435	3.75034	0.2062121	0.30364520	2.1922585	21	11 17.5	19.5
28989 2001 MZ_{24}	14.8	X	7.31285	281.67090	81.41540	4.54376	0.2077016	0.25368139	2.4714035	21	11 30.8	17.3
28990 2001 ML_{27}	13.1	X	133.20817	258.56442	144.81257	16.92998	0.1038640	0.17585190	3.1552807	21	3 8.6	17.8
28991 2001 MU_{27}	12.8	X	200.29461	138.17952	277.32805	9.31253	0.1027364	0.18914953	3.0056094	21	5 26.9	17.5
28992 2001 MW_{28}	16.0	X	133.92558	98.99123	205.08081	0.39580	0.1792835	0.26563523	2.3966922	21	—	—
28993 2001 NA_{6}	15.9	X	218.62408	46.91111	173.52024	2.37151	0.1620001	0.26849370	2.3796513	21	—	—
28994 2001 OO_{8}	15.2	X	161.44949	198.36822	141.99618	5.11432	0.2350894	0.22197688	2.7014539	21	1 24.0	19.7
28995 2001 OF_{46}	15.0	X	240.70512	123.29149	244.73992	2.29809	0.2072917	0.23609472	2.5926578	21	4 28.9	19.1
28996 2001 OL_{51}	14.8	X	134.64277	80.10507	346.82969	3.78554	0.1127269	0.23143265	2.6273603	21	3 30.6	18.5
28997 2020 P–L	14.8	X	272.48164	60.66814	342.58850	5.12323	0.2391330	0.24009432	2.5637842	21	7 14.3	18.5
28998 2184 P–L	14.5	X	57.89608	351.03428	205.92641	11.88738	0.1724142	0.23858038	2.5746186	21	6 20.4	17.6
28999 2505 P–L	14.8	X	42.21465	47.11644	4.50356	6.57675	0.1617875	0.26275513	2.4141740	21	—	—
29000 2607 P–L	14.4	X	128.62411	219.13060	192.08829	6.20906	0.2036582	0.21807158	2.7336107	21	3 16.6	18.6
29001 2615 P–L	14.9	X	141.28406	274.64302	35.39267	5.27817	0.1583333	0.21530141	2.7570086	21	—	—
29002 2708 P–L	15.6	X	227.58870	181.96240	12.02173	4.28274	0.0706820	0.26209060	2.4182531	21	—	—
29003 2760 P–L	14.2	X	289.43642	308.36094	110.13820	0.93468	0.0336640	0.19324529	2.9629895	21	9 23.8	18.0
29004 2767 P–L	13.7	X	175.89738	237.08677	87.18172	2.42026	0.1254243	0.16764595	3.2574218	21	1 19.3	18.8
29005 2784 P–L	14.5	X	145.59618	103.13625	121.38076	2.78323	0.0592378	0.17892352	3.1190650	21	10 26.5	19.1
29006 3091 P–L	13.6	X	288.29964	177.61039	286.96738	9.73472	0.0987789	0.19527090	2.9424632	21	11 9.1	17.6
29007 4022 P–L	15.1	X	49.03970	23.83233	343.64655	4.49375	0.1823971	0.29422266	2.2388172	21	—	—
29008 4044 P–L	13.7	X	289.79747	34.93329	359.04634	9.30163	0.0789141	0.19215201	2.9742177	21	8 19.6	17.7
29009 4074 P–L	15.0	X	194.39082	17.61091	238.06255	0.61211	0.1503809	0.26400028	2.4065772	21	—	—
29010 4100 P–L	14.6	X	28.33440	226.03049	352.34549	12.93448	0.1283817	0.23853280	2.5749609	21	5 17.8	17.6
29011 4184 P–L	14.7	X	277.56688	43.22595	325.71027	5.66118	0.0937414	0.27218631	2.3580800	21	6 24.8	17.7
29012 4285 P–L	14.6	X	249.97154	52.19946	348.85955	8.95724	0.0854010	0.19103263	2.9858250	21	7 5.5	19.0
29013 4291 P–L	15.5	X	282.90788	129.59723	201.00812	8.89459	0.1225999	0.23857254	2.5746750	21	5 7.1	18.9
29014 4536 P–L	14.2	X	183.71553	140.48716	184.31650	2.39874	0.0781432	0.18493150	3.0511399	21	1 21.4	18.8
29015 4544 P–L	15.5	X	144.95416	318.84000	8.69653	4.14772	0.0691045	0.23203670	2.6227985	21	—	—
29016 4591 P–L	14.1	X	289.38524	61.75572	14.52693	7.57881	0.1989170	0.24223281	2.5486727	21	9 30.4	16.8
29017 4601 P–L	14.0	X	205.20355	10.68057	73.80539	2.96409	0.2300247	0.19023011	2.9942166	21	7 2.6	19.2
29018 6062 P–L	15.0	X	47.06819	106.66854	328.31702	2.06601	0.1454072	0.26416308	2.4055883	21	—	—
29019 6095 P–L	14.1	X	251.20152	107.62164	204.74542	4.61641	0.1326249	0.17155013	3.2078103	21	3 12.9	19.1
29020 6274 P–L	14.7	X	24.75539	33.26837	204.85641	4.19767	0.1834197	0.23968003	2.5667376	21	6 20.4	17.0
29021 6613 P–L	16.1	X	92.09513	296.89276	49.70518	1.91871	0.2204066	0.26327669	2.4109846	21	—	—
29022 6630 P–L	15.1	X	30.93359	211.32588	15.18356	6.14271	0.0657795	0.28753487	2.2733992	21	5 30.8	17.5
29023 6667 P–L	14.3	X	326.52209	345.18335	2.98841	9.73624	0.1027875	0.19268315	2.9687496	21	8 11.6	18.0
29024 6685 P–L	14.8	X	130.44120	159.53688	160.37824	2.46030	0.0396269	0.19887713	2.9067844	21	—	—
29025 6710 P–L	14.6	X	143.34543	117.17277	168.57071	4.61958	0.0670779	0.21440066	2.7647252	21	—	—
29026 6774 P–L	15.2	X	344.11827	282.57414	12.96304	13.53070	0.1538698	0.24024395	2.5627195	21	6 19.5	18.1
29027 7587 P–L	15.1	X	184.77544	12.88101	50.34233	3.67686	0.1196134	0.23767559	2.5811485	21	5 19.1	19.0
29028 9097 P–L	14.3	X	45.85747	185.06260	359.27013	7.12009	0.1357400	0.23777726	2.5804127	21	5 3.2	17.2
29029 9549 P–L	13.9	X	264.49963	70.57914	15.50317	16.97604	0.1498304	0.24200315	2.5502849	21	9 18.5	17.3
29030 1034 T–1	15.0	X	282.60489	262.00847	200.05459	4.20697	0.0604522	0.30551301	2.1833142	21	11 28.1	17.2
29031 1132 T–1	15.3	X	322.00864	298.89716	234.39012	1.31099	0.1449448	0.27202569	2.3590081	21	—	—
29032 2059 T–1	13.8	X	182.66617	352.82931	2.17599	24.35235	0.2058249	0.27403550	2.3474598	21	2 28.9	17.8
29033 2085 T–1	14.0	X	153.48386	321.68994	125.67666	1.92318	0.1720632	0.18148211	3.0896800	21	5 24.2	19.1
29034 2149 T–1	13.3	X	133.45613	95.61151	3.90645	7.30945	0.1039931	0.18022936	3.1039808	21	5 11.4	18.0
29035 2214 T–1	14.8	X	108.14335	150.88452	178.42009	4.14267	0.0933311	0.26830754	2.3807519	21	—	—
29036 3075 T–1	13.5	X	111.11234	95.88227	344.87813	0.89618	0.1642331	0.17856960	3.1231850	21	4 3.1	18.1
29037 3165 T–1	15.6	X	45.89198	41.39609	349.83116	2.45491	0.1893835	0.30819739	2.1706181	21	—	—
29038 4030 T–1	13.6	X	2.14231	50.88977	17.03575	9.01327	0.1491593	0.21037318	2.7998997	21	—	—
29039 4514 T–1	14.3	X	57.17224	11.36610	206.67188	12.30108	0.0818657	0.23983148	2.5656570	21	7 3.9	17.7
29040 1002 T–2	15.9	X	160.42576	19.96319	7.44973	1.56012	0.1105353	0.27863957	2.3215294	21	3 3.9	19.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
29041 1050 *T–2*	13.8	*X*	170.96553	270.78356	178.96299	10.99718	0.2384103	0.17887266	3.1196562	21	6 13.1	19.4
29042 1426 *T–2*	14.2	*X*	255.58340	218.08212	351.57802	10.83230	0.1267701	0.17117176	3.2125357	21	—	—
29043 2024 *T–2*	13.7	*X*	89.49301	77.52162	353.45867	8.60627	0.1466650	0.21434642	2.7651916	21	2 17.2	17.1
29044 2154 *T–2*	15.1	*X*	172.43045	127.70052	352.11351	2.37298	0.0341580	0.24302000	2.5431660	21	7 19.1	18.5
29045 2255 *T–2*	15.2	*X*	195.14115	7.39382	10.61603	5.39180	0.1511895	0.27993137	2.3143818	21	3 29.9	18.6
29046 2268 *T–2*	14.6	*X*	143.84926	145.63783	191.19627	4.98277	0.1382272	0.17114996	3.2128086	21	1 2.9	19.5
29047 2278 *T–2*	14.7	*X*	171.33278	228.63204	71.51932	2.33811	0.0948398	0.17099937	3.2146945	21	—	—
29048 3069 *T–2*	14.8	*X*	87.77384	90.29535	161.11124	8.48964	0.0427619	0.24651905	2.5190438	21	9 29.5	18.1
29049 3083 *T–2*	16.5	*X*	139.73717	41.82482	8.06659	6.28751	0.0739284	0.27865550	2.3214410	21	3 5.6	19.5
29050 3333 *T–2*	15.1	*X*	332.93234	195.79465	136.37559	2.90783	0.0758783	0.20333514	2.8641412	21	7 29.6	18.6
29051 4212 *T–2*	14.9	*X*	150.92515	44.43534	49.91795	5.31856	0.1269290	0.28128084	2.3069735	21	5 22.5	18.2
29052 4258 *T–2*	15.1	*X*	24.55591	142.74885	122.19045	2.85968	0.0715921	0.24356158	2.5393946	21	7 20.1	17.9
29053 Muskau	13.7	*X*	289.79084	56.19576	72.24366	2.30529	0.0728225	0.12687774	3.9223446	21	12 2.8	18.9
29054 5097 *T–2*	14.1	*X*	32.64288	248.55493	227.31672	12.14117	0.1681040	0.21331047	2.7741372	21	1 6.4	17.1
29055 5118 *T–2*	13.3	*X*	196.89349	126.96859	208.23709	14.98863	0.0805739	0.17484694	3.1673595	21	2 13.5	18.5
29056 1055 *T–3*	15.1	*X*	41.59633	259.61783	319.17451	10.51488	0.1659117	0.24109847	2.5566606	21	6 24.0	17.9
29057 1083 *T–3*	15.7	*X*	253.49413	86.17272	319.15195	5.08977	0.1749319	0.24238654	2.5475950	21	7 2.9	19.5
29058 2077 *T–3*	15.7	*X*	303.10076	209.92358	3.21821	9.05700	0.2026919	0.27929015	2.3179228	21	—	—
29059 2151 *T–3*	15.3	*X*	34.94575	229.99777	357.63424	9.36358	0.0346991	0.28587655	2.2821825	21	6 5.5	18.0
29060 2157 *T–3*	14.4	*X*	221.43102	181.61970	240.35034	4.08087	0.1094722	0.28660498	2.2783139	21	6 24.9	17.7
29061 2193 *T–3*	15.2	*X*	207.11691	90.78814	359.35407	3.78990	0.1983570	0.24129593	2.5552656	21	7 13.3	19.5
29062 2324 *T–3*	15.1	*X*	342.29294	285.29271	341.45086	4.54342	0.1620124	0.28592424	2.2819286	21	4 23.6	17.2
29063 2369 *T–3*	15.5	*X*	101.51706	220.88097	275.86674	3.02862	0.0921315	0.28354748	2.2946627	21	5 14.7	18.3
29064 3129 *T–3*	14.7	*X*	288.62013	312.29529	87.36738	2.03323	0.1528493	0.24408309	2.5357762	21	8 15.1	17.5
29065 3447 *T–3*	15.0	*X*	251.20072	141.04547	173.55773	3.73831	0.0644585	0.23757751	2.5818589	21	3 14.9	18.7
29066 3527 *T–3*	15.7	*X*	47.94735	312.81629	204.98937	6.15338	0.0445971	0.28201905	2.3029460	21	3 15.3	18.3
29067 3856 *T–3*	14.3	*X*	245.63623	43.87846	188.19364	9.94301	0.0953132	0.18688060	3.0298879	21	—	—
29068 4234 *T–3*	14.8	*X*	125.16927	280.98700	193.23998	22.42489	0.2638964	0.28239226	2.3009165	21	6 4.9	18.8
29069 4310 *T–3*	14.5	*X*	16.55473	167.57448	65.60304	5.66976	0.0940508	0.28519941	2.2857933	21	5 17.8	16.4
29070 4316 *T–3*	15.2	*X*	305.72874	260.97898	56.84025	5.82868	0.0449549	0.24093667	2.5578051	21	5 31.9	18.4
29071 5048 *T–3*	13.1	*X*	273.12877	74.29824	54.75086	15.01175	0.1423290	0.15947470	3.3677630	21	11 10.1	17.7
29072 5089 *T–3*	15.8	*X*	267.18593	192.99074	120.10095	7.38864	0.1359076	0.28394822	2.2925032	21	3 21.7	19.0
29073 5130 *T–3*	15.3	*X*	153.71991	356.69129	92.60541	8.32173	0.1242674	0.28377084	2.2934584	21	5 20.5	18.6
29074 5160 *T–3*	14.3	*X*	71.55589	133.66345	156.40329	13.97811	0.2322070	0.20376223	2.8601375	21	11 19.2	18.9
29075 1950 *DA*	17.1	*X*	48.95798	224.69228	356.65339	12.16798	0.5077400	0.44519818	1.6986365	21	9 21.3	19.0
29076 1972 TR_8	13.7	*X*	338.62795	8.56646	318.18849	12.56548	0.1714881	0.23980632	2.5658364	21	7 28.6	16.0
29077 1975 *SR*	15.1	*X*	136.66549	165.16543	189.95870	2.41752	0.2500156	0.26599586	2.3945255	21	1 13.2	18.4
29078 1975 SX_1	13.6	*X*	217.96259	251.71136	199.49644	8.99743	0.0179488	0.18922781	3.0047805	21	8 3.7	18.1
29079 1975 *XD*	14.9	*X*	128.80051	267.64131	119.45231	7.36378	0.1163894	0.26567751	2.3964380	21	1 27.2	17.7
29080 Astrocourier	12.5	*X*	197.05050	23.78583	1.39212	18.16140	0.1863931	0.17622100	3.1508733	21	4 12.6	17.9
29081 Krymradio	14.9	*X*	99.62329	308.42856	63.30670	2.21799	0.1980420	0.25966530	2.4332876	21	—	—
29082 1978 VG_9	15.3	*X*	19.83431	307.23059	50.23447	7.03086	0.1977430	0.29880940	2.2158476	21	12 22.8	17.7
29083 1979 MG_3	13.5	*X*	283.42456	52.99711	270.55924	8.45778	0.0866685	0.18449955	3.0559002	21	5 4.8	18.0
29084 1979 MD_7	15.0	*X*	11.98350	73.46128	130.41026	5.77399	0.1747655	0.27792041	2.3255325	21	3 21.4	16.8
29085 Sethanne	14.6	*X*	169.51832	287.02130	47.58369	3.88955	0.0692582	0.22191764	2.7019346	21	1 11.9	18.5
29086 1980 PY_2	13.9	*X*	334.70333	340.51812	37.36256	15.67311	0.1318187	0.24264143	2.5458105	21	10 12.9	16.6
29087 1980 VW_2	15.2	*X*	191.75380	26.28393	13.12461	6.12995	0.1167490	0.27969209	2.3157016	21	4 21.5	18.6
29088 1981 DR_2	14.3	*X*	122.18892	138.47964	314.87318	10.94604	0.1552619	0.22371157	2.6874708	21	4 20.7	18.5
29089 1981 DD_3	14.9	*X*	59.25846	122.73745	295.91438	6.73833	0.0849759	0.21620274	2.7493409	21	—	—
29090 1981 EY_3	13.8	*X*	136.66420	224.32826	235.48709	8.18037	0.2330064	0.17706429	3.1408611	21	5 28.3	18.9
29091 1981 EF_8	13.5	*X*	145.84634	210.03043	214.00549	7.46319	0.1683678	0.17528604	3.1620677	21	4 18.6	18.5
29092 1981 EL_{10}	14.5	*X*	204.67508	0.67122	301.31099	4.80210	0.1034560	0.21714306	2.7413979	21	1 11.7	18.7
29093 1981 EQ_{10}	15.5	*X*	14.91661	141.55922	305.94396	3.08593	0.1974097	0.26547848	2.3976356	21	—	—
29094 1981 ED_{11}	15.1	*X*	134.51914	307.69572	323.71993	7.71247	0.1940236	0.25831714	2.4417465	21	12 22.7	19.2
29095 1981 EK_{11}	14.9	*X*	165.09420	187.17277	214.19095	9.42036	0.2170459	0.27250061	2.3562664	21	4 3.0	18.8
29096 1981 EW_{11}	16.1	*X*	265.39091	294.18296	252.78786	1.47888	0.1352697	0.26326703	2.4110436	21	—	—
29097 1981 EC_{12}	15.4	*X*	336.83110	246.89652	263.65605	5.24643	0.0789576	0.26577944	2.3958252	21	—	—
29098 1981 EN_{16}	15.8	*X*	242.53510	223.08629	325.32279	7.57244	0.1549188	0.26176402	2.4202640	21	—	—
29099 1981 EQ_{16}	13.9	*X*	116.78704	85.16926	339.84207	13.36217	0.1230106	0.17246243	3.1964878	21	3 14.7	18.7
29100 1981 EE_{18}	14.9	*X*	120.47465	103.69939	356.58726	4.78334	0.1753599	0.17587486	3.1550062	21	5 7.1	19.7
29101 1981 EZ_{20}	14.9	*X*	94.30072	204.81248	216.05001	1.16826	0.0609263	0.21904792	2.7254819	21	1 26.1	18.2
29102 1981 EA_{22}	14.5	*X*	206.62835	128.58552	170.30651	12.70937	0.0244844	0.21777100	2.7361255	21	1 6.6	18.5
29103 1981 EC_{22}	16.1	*X*	244.49418	352.29660	174.45608	1.63299	0.0307965	0.30955800	2.1642530	21	—	—
29104 1981 EO_{22}	16.3	*X*	228.26946	302.51102	278.35076	0.84356	0.1369309	0.26237577	2.4165005	21	—	—
29105 1981 EY_{22}	15.8	*X*	188.15018	91.71512	176.34882	3.29977	0.1369774	0.31135470	2.1559190	21	—	—
29106 1981 EL_{25}	15.4	*X*	51.58815	279.06553	188.15648	6.13274	0.0686193	0.26816160	2.3816156	21	1 12.4	18.1
29107 1981 EO_{25}	13.6	*X*	37.77545	280.11295	183.45901	21.46835	0.0781020	0.16924324	3.2368941	21	1 11.6	18.2
29108 1981 EG_{26}	14.7	*X*	318.91702	145.68304	354.11224	9.21314	0.1319613	0.21519298	2.7579348	21	—	—
29109 1981 EO_{28}	14.4	*X*	185.45037	9.71137	357.52028	5.86426	0.0474334	0.22091322	2.7101183	21	3 9.6	18.1
29110 1981 ET_{29}	14.2	*X*	52.46829	273.33046	225.95291	4.59083	0.1006822	0.17216674	3.2001466	21	3 19.8	18.3
29111 1981 EC_{33}	16.1	*X*	104.01534	152.14921	299.23192	4.71914	0.1721096	0.27179917	2.3603186	21	3 26.7	19.1
29112 1981 EZ_{33}	14.6	*X*	191.66372	153.45871	261.98834	4.02887	0.1410959	0.17727377	3.1383863	21	5 18.6	19.6
29113 1981 EA_{34}	15.0	*X*	65.50382	226.99778	209.95373	8.67560	0.1316039	0.21864890	2.7287967	21	1 11.2	18.2
29114 1981 EB_{34}	16.8	*X*	180.77465	49.24808	197.24496	4.13012	0.0309878	0.31031700	2.1607225	21	—	—
29115 1981 EW_{38}	14.6	*X*	262.24479	304.37142	281.21686	4.11211	0.0627790	0.21604300	2.7506959	21	—	—
29116 1981 ED_{40}	14.4	*X*	140.10099	278.55156	178.48008	11.06896	0.2645039	0.17748838	3.1358559	21	5 31.2	19.9
29117 1981 EK_{40}	14.3	*X*	132.94393	188.49064	187.18029	4.71959	0.1243362	0.21830225	2.7316848	21	1 26.5	18.1
29118 1981 EQ_{43}	16.4	*X*	205.11300	34.54823	189.37494	1.25460	0.1341276	0.26103578	2.4247633	21	—	—
29119 1981 EW_{45}	14.2	*X*	131.98225	177.68264	202.48687	4.77310	0.1228803	0.16963931	3.2318539	21	2 7.5	19.0
29120 1981 EY_{45}	14.1	*X*	202.49385	94.07241	316.89021	4.17920	0.1933384	0.17769353	3.1334418	21	5 21.3	19.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
29121 1981 QP_2	15.4	X	7.26701	220.14934	142.78512	6.08978	0.1820246	0.29871393	2.2163197	21	12 9.1	17.5
29122 Vasadze	14.2	X	24.91610	47.88764	6.55541	5.92723	0.2148479	0.25569402	2.4584177	21	—	—
29123 1983 RA_4	14.2	X	159.23529	352.49332	355.16732	9.39108	0.2565828	0.21985584	2.7188007	21	2 4.6	18.8
29124 1984 SW_6	15.7	X	242.19027	302.77429	71.67042	5.49141	0.1890058	0.28649850	2.2788784	21	5 8.4	19.0
29125 Kyivphysfak	14.5	X	237.99883	42.05985	65.17322	6.22270	0.1360694	0.28883550	2.2665693	21	9 17.8	17.4
29126 1985 CU_1	14.1	X	119.50883	120.42675	323.91581	24.18618	0.2386966	0.27690243	2.3312286	21	4 1.9	17.9
29127 1985 FF_2	13.9	X	9.63349	187.48971	307.91000	6.73782	0.1451855	0.21616054	2.7496987	21	—	—
29128 1985 RA_1	14.5	X	325.01949	60.07528	283.33951	9.94012	0.1893681	0.24398628	2.5364469	21	7 20.3	16.9
29129 1985 RG_3	14.9	X	20.69144	281.83991	99.66605	5.22867	0.1759182	0.25130723	2.4869443	21	—	—
29130 1986 EA_5	14.6	X	10.52632	199.33920	358.00700	0.39491	0.1850949	0.22558828	2.6725450	21	3 17.0	16.7
29131 1986 QU_1	15.1	X	129.79301	249.16910	113.29949	2.31879	0.1973267	0.26625890	2.3929482	21	1 7.7	18.0
29132 Bradpitt	14.9	X	171.87298	344.29528	142.62476	5.46807	0.2502728	0.24254439	2.5464895	21	7 28.2	19.3
29133 Vargas	14.0	X	324.98113	125.32655	137.52607	14.01339	0.1700650	0.23000709	2.6382051	21	4 1.6	17.3
29134 1987 RW	14.6	X	281.82634	53.62905	340.43711	5.81431	0.1732664	0.28801768	2.2708579	21	7 26.2	17.0
29135 1987 SZ_2	14.7	X	314.26304	355.71485	26.49354	7.45032	0.1364349	0.28923382	2.2644879	21	9 14.4	16.6
29136 1987 SQ_4	14.4	X	115.71051	150.56956	195.97719	7.17950	0.2071149	0.21334281	2.7738568	21	—	—
29137 Alanboss	15.2	X	260.10415	169.04641	215.03040	24.96088	0.2204011	0.28396996	2.2923862	21	6 3.8	18.9
29138 1988 BE_4	13.8	X	185.94216	261.12039	152.45329	10.40073	0.1570514	0.18782356	3.0197385	21	5 14.1	18.9
29139 1988 CP	14.4	X	315.12589	177.78858	340.82304	12.52957	0.1984171	0.26307037	2.4122450	21	—	—
29140 1988 CG_4	15.0	X	130.12995	159.61796	240.14532	6.00610	0.1200788	0.26839533	2.3802327	21	2 11.7	18.2
29141 1988 CZ_4	15.2	X	342.12599	263.52930	208.43200	6.98084	0.0553664	0.26143527	2.4222926	21	—	—
29142 1988 CR_7	14.7	X	214.50239	132.37963	90.67805	2.61482	0.1449642	0.26028982	2.4293938	21	—	—
29143 1988 DK	14.0	X	79.22937	276.07997	217.91858	9.31776	0.1746722	0.18272903	3.0756082	21	5 1.9	18.0
29144 1988 FB	14.0	X	17.26065	89.68131	44.54598	2.60829	0.1547730	0.26508592	2.4000020	21	—	—
29145 1988 FE	14.4	X	309.01176	138.73617	47.52360	10.26705	0.1799064	0.26259700	2.4151431	21	—	—
29146 McHone	14.2	X	338.37848	203.70211	333.87505	23.62765	0.2429337	0.26506543	2.4001257	21	—	—
29147 1988 GG	13.9	X	7.74256	166.00819	26.50611	25.54664	0.2159403	0.26685629	2.3893756	21	3 7.3	16.5
29148 Palzer	13.4	X	195.26182	191.69649	118.91292	3.72521	0.1714024	0.16920417	3.2373924	21	1 21.7	18.7
29149 1988 RE_1	13.5	X	267.21143	211.74033	195.28478	14.63636	0.1049767	0.23619246	2.5919425	21	7 28.1	17.3
29150 1988 RM_5	13.6	X	225.35059	243.85793	159.74951	15.04372	0.1008732	0.23361375	2.6109814	21	6 8.7	17.8
29151 1988 RE_{11}	14.5	X	155.89386	335.74857	351.19337	7.25791	0.1587612	0.22212481	2.7002544	21	—	—
29152 1988 RA_{13}	15.0	X	154.98162	85.01993	194.48565	4.46265	0.1472460	0.30879096	2.1678355	21	—	—
29153 1988 SY_2	14.5	X	237.77369	185.06059	176.64220	12.84682	0.2778706	0.23065056	2.6332962	21	4 17.4	19.1
29154 1988 VC_1	14.3	X	199.88518	173.57050	267.59265	11.67042	0.1301024	0.23061434	2.6335718	21	6 26.6	18.3
29155 1988 XE	13.4	X	205.15507	169.44608	252.45070	12.72576	0.2939877	0.22852893	2.6495692	21	6 2.7	18.3
29156 1989 CH	13.2	X	254.47819	19.40532	136.40488	16.11104	0.2030790	0.20507963	2.8478757	21	11 21.9	17.5
29157 Higashinihon	14.5	X	145.05933	87.67677	36.94645	6.23171	0.1067593	0.28360905	2.2943306	21	6 25.3	17.7
29158 1989 EE_3	14.4	X	331.79331	327.93854	160.15469	16.60833	0.1370663	0.18026620	3.1035579	21	—	—
29159 1989 GB	13.9	X	249.05067	170.38279	40.64990	13.61592	0.0658695	0.26655101	2.3911996	21	—	—
29160 1989 SP_1	14.2	X	95.98947	55.17362	131.66482	5.04565	0.0869647	0.24016585	2.5632751	21	7 18.1	17.5
29161 1989 SF_2	14.2	X	53.52105	131.50566	45.88317	8.93238	0.1641023	0.23542577	2.5975668	21	5 13.5	17.0
29162 1989 SD_4	13.9	X	131.79854	95.75552	34.25849	15.16242	0.0444199	0.23803929	2.5785187	21	6 8.3	17.6
29163 1989 SF_{14}	14.7	X	304.26216	114.43702	252.89552	13.83967	0.1320458	0.24243189	2.5472772	21	7 22.5	17.9
29164 1989 UA	13.4	X	276.96286	7.10602	45.21326	10.76107	0.0977153	0.24234696	2.5478723	21	8 29.8	16.8
29165 1989 UK_1	14.5	X	242.89168	225.70717	217.23659	11.58268	0.2703754	0.24034006	2.5620362	21	7 26.5	18.8
29166 1989 VP_1	14.7	X	198.88731	281.00458	191.71859	13.35418	0.1258225	0.23964880	2.5669606	21	8 2.9	19.0
29167 1989 WC_2	13.6	X	251.64281	20.30421	64.55141	9.27521	0.1712985	0.24043729	2.5613455	21	8 27.5	17.3
29168 1990 KJ	13.6	X	287.94537	180.43877	93.64426	24.22263	0.1779336	0.28098977	2.3085664	21	2 20.4	17.4
29169 1990 OC_1	13.2	X	336.02899	46.00633	247.45151	10.87361	0.0869913	0.18690226	3.0296538	21	6 10.6	17.0
29170 1990 OA_3	13.3	X	19.56024	57.26932	243.88748	9.00731	0.0958252	0.19171204	2.9787664	21	8 26.7	17.2
29171 1990 QK_3	14.3	X	251.75003	240.06741	151.01387	6.25375	0.1248812	0.28131658	2.3067781	21	6 17.1	17.4
29172 1990 QL_4	12.9	X	59.90326	264.70422	349.94389	10.17761	0.0145319	0.18908575	3.0062852	21	8 19.8	17.1
29173 1990 QW_4	14.3	X	223.40282	306.87312	123.12890	8.66981	0.1515952	0.28175756	2.3043706	21	7 4.9	17.8
29174 1990 QJ_6	14.2	X	285.52516	249.78698	74.92358	0.57697	0.1982130	0.18475399	3.0530939	21	4 25.2	18.7
29175 1990 QP_6	14.8	X	81.66558	237.32399	351.14936	5.56714	0.1152062	0.28563832	2.2834512	21	9 3.0	17.4
29176 1990 QJ_{10}	14.1	X	246.88271	0.41018	10.13647	1.98473	0.1084369	0.18462126	3.0545571	21	5 19.8	18.6
29177 1990 RF_7	14.1	X	153.25552	284.27104	109.94658	2.37985	0.1701421	0.17757801	3.1348006	21	3 22.5	19.1
29178 1990 RW_8	15.3	X	287.78040	28.84970	283.62162	6.70322	0.1947522	0.27981529	2.3150218	21	3 30.4	18.6
29179 1990 RT_{13}	15.4	X	206.09340	250.58557	107.71822	2.33664	0.0730644	0.27441063	2.3453199	21	3 16.1	18.7
29180 1990 SW_1	14.4	X	171.72195	194.83146	194.16010	25.41354	0.2952281	0.27278223	2.3546444	21	3 28.9	18.5
29181 1990 SE_6	15.1	X	218.14250	220.90391	160.76826	7.22782	0.1155163	0.27695905	2.3309109	21	4 29.8	18.5
29182 1990 ST_6	13.9	X	247.39518	223.50908	104.56721	4.55243	0.1430531	0.18001372	3.1064592	21	3 29.4	18.7
29183 1990 SQ_7	15.4	X	98.00504	339.82906	77.63547	3.24089	0.2065855	0.26841994	2.3800872	21	2 8.7	17.8
29184 1990 SL_{10}	14.7	X	266.60831	318.51741	20.19782	14.01808	0.1050517	0.27879545	2.3206640	21	4 23.2	17.9
29185 Reich	13.2	X	190.62721	60.41218	38.35156	17.34888	0.2206806	0.18074035	3.0981276	21	7 9.8	18.8
29186 Lake Tekapo	14.3	X	325.24096	99.05951	52.29262	7.28694	0.0541422	0.26344399	2.4099638	21	—	—
29187 Lemonnier	13.6	X	181.13696	286.57718	89.41777	7.28319	0.1614658	0.17596118	3.1539742	21	3 27.9	18.8
29188 1990 UW_3	15.5	X	86.05346	302.28246	131.66962	3.21046	0.1489452	0.26693918	2.3888809	21	2 1.9	17.9
29189 Udinsk	12.9	X	226.33982	296.71801	67.00281	9.98069	0.2375590	0.17986023	3.1082262	21	4 17.6	18.3
29190 1990 UZ_4	13.5	X	106.62132	358.59040	86.06623	8.44284	0.1707058	0.17340505	3.1848933	21	4 8.6	18.2
29191 1990 UQ_5	15.6	X	299.89998	11.20123	74.01956	6.87736	0.1245590	0.28695938	2.2764377	21	11 22.7	17.4
29192 1990 VK_2	13.4	X	275.89140	277.81971	57.42129	8.10644	0.2897310	0.18339128	3.0681995	21	4 19.1	18.2
29193 Dolphyn	13.6	X	51.35733	102.74671	85.22860	14.44100	0.1590021	0.17560942	3.1581846	21	5 30.6	17.5
29194 1990 WJ_4	14.4	X	311.64270	65.67881	125.06933	6.57761	0.0572525	0.26393019	2.4070032	21	—	—
29195 1990 WF_5	15.3	X	256.62076	2.73413	109.47169	7.46667	0.1020712	0.25173146	2.4841494	21	10 20.7	18.5
29196 Dius	12.0	X	148.89365	38.90798	67.64013	3.85348	0.0513332	0.08181501	5.2550967	21	6 6.9	19.0
29197 Gleim	15.0	X	334.44657	183.74904	283.83779	0.06898	0.1776715	0.25583738	2.4574992	21	—	—
29198 Weathers	13.3	X	8.34354	161.58037	91.15789	16.57795	0.1010607	0.23526206	2.5987716	21	6 6.8	16.1
29199 Himeji	13.2	X	333.67839	347.57033	4.63068	13.67228	0.0518876	0.24194536	2.5506910	21	9 5.4	16.3
29200 1991 FX_2	13.0	X	267.60154	2.33384	17.98785	13.29173	0.1733115	0.23693151	2.5865497	21	6 14.0	17.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
29201 1991 GO_4	13.8	X	250.62660	295.39033	26.97210	11.39030	0.1898334	0.22742350	2.6581480	21	3 18.9	18.1
29202 1991 GH_8	14.2	X	237.34834	276.76376	17.07164	11.35340	0.1906817	0.22287100	2.6942238	21	2 2.6	18.9
29203 Schnitger	15.2	X	115.73653	70.98655	64.56801	4.46178	0.1430609	0.23443121	2.6049083	21	6 10.8	18.9
29204 Ladegast	14.7	X	159.76928	2.73663	184.22830	9.20432	0.0614125	0.24161549	2.5530121	21	10 1.4	18.4
29205 1991 NM_6	13.9	X	163.75553	210.20539	148.33412	5.79781	0.0671891	0.21729628	2.7401091	21	2 3.4	17.9
29206 1991 PX_{10}	15.2	X	25.72323	166.50888	184.91953	8.50484	0.2000359	0.29993377	2.2103063	21	12 23.4	17.9
29207 1991 RG_2	15.7	X	262.52239	63.60997	315.66892	5.46178	0.1913491	0.29028922	2.2589959	21	6 3.5	19.0
29208 Halorentz	15.8	X	357.88963	83.02159	229.19421	4.31060	0.1954121	0.29441406	2.2378468	21	8 21.9	17.2
29209 1991 RV_7	15.3	X	25.06272	207.73092	153.13364	6.25480	0.1780303	0.29992231	2.2103627	21	12 31.9	18.0
29210 Robertbrown	13.8	X	59.63723	84.03962	319.55839	12.74365	0.1703116	0.20925921	2.8098275	21	—	—
29211 1991 RY_{15}	13.3	X	49.58470	202.70729	129.91836	2.99272	0.0662808	0.20131331	2.8832860	21	11 20.8	17.3
29212 Zeeman	14.3	X	88.62081	268.22696	31.52866	2.30915	0.0479452	0.20155893	2.8809431	21	11 23.8	18.3
29213 1991 SJ	14.8	X	170.99468	83.51935	139.46822	5.20202	0.1169660	0.30291105	2.1957993	21	12 6.3	17.8
29214 Apitzsch	14.1	X	76.49327	33.38731	276.71543	2.98120	0.1451428	0.20214306	2.8753904	21	12 4.4	18.3
29215 1991 UE	15.4	X	176.92235	112.40595	342.12940	2.74555	0.1120879	0.28686517	2.2769361	21	6 19.9	18.6
29216 1991 VX_5	12.7	X	156.46131	85.43596	86.71610	10.84362	0.0428570	0.19054954	2.9908694	21	9 9.1	17.2
29217 1991 VV_{12}	14.0	X	317.15164	77.70761	264.45274	3.84785	0.1594351	0.19159624	2.9799666	21	7 7.5	17.4
29218 1992 AY	13.1	X	129.07448	15.34528	100.76417	15.37860	0.1509894	0.17838059	3.1253907	21	6 5.2	18.0
29219 1992 BJ	14.8	X	52.05266	334.37226	124.49617	2.91899	0.1355379	0.27111791	2.3642709	21	1 2.2	16.9
29220 Xavierbaptista	13.5	X	248.58357	190.27283	269.40334	8.51558	0.1185814	0.18847317	3.0127958	21	9 6.3	18.0
29221 1992 BW_3	15.3	X	273.85383	295.91873	53.34146	6.44633	0.1918364	0.28709924	2.2756983	21	5 7.2	18.2
29222 1992 BU_4	16.1	X	174.38658	213.25978	172.54296	6.41316	0.2565303	0.27773910	2.3265445	21	3 26.2	20.1
29223 1992 DW_2	15.3	X	170.75156	235.27747	129.35702	3.14844	0.2270102	0.27112629	2.3642222	21	2 24.2	19.2
29224 1992 DD_7	14.9	X	6.53514	314.66863	144.74392	7.58647	0.0388323	0.26374531	2.4081279	21	—	—
29225 1992 DW_7	15.3	X	296.56935	39.31291	71.72535	2.63513	0.1024389	0.25893689	2.4378488	21	12 17.9	17.8
29226 1992 DH_8	15.2	X	279.08263	353.03465	206.88313	3.23271	0.1270341	0.26414679	2.4056872	21	—	—
29227 Wegener	14.2	X	311.13723	215.25049	346.47645	2.46246	0.1881545	0.26749431	2.3855747	21	—	—
29228 1992 EC	14.4	X	330.29708	244.81640	349.35812	6.79546	0.0675416	0.27154652	2.3617824	21	3 5.2	17.2
29229 1992 EE_1	14.0	X	20.62313	160.04781	28.30654	26.75930	0.1821932	0.27130683	2.3631733	21	3 28.2	16.2
29230 1992 ED_4	13.5	X	84.12788	6.69388	113.93558	2.68855	0.1391150	0.17331792	3.1859606	21	4 18.2	17.7
29231 1992 EG_4	14.4	X	134.62519	28.86562	76.21923	3.06928	0.1303974	0.17687846	3.1430605	21	5 24.5	19.3
29232 1992 EH_4	15.3	X	58.74132	11.93073	120.86033	3.08628	0.1179860	0.27255134	2.3559740	21	3 7.3	17.4
29233 1992 EP_6	14.7	X	59.19785	63.08748	78.62802	5.72905	0.0393125	0.27262439	2.3555532	21	3 16.1	17.5
29234 1992 EC_7	15.1	X	118.38733	259.77533	99.65111	7.40594	0.1767122	0.26516580	2.3995200	21	—	—
29235 1992 EU_{13}	13.8	X	243.65942	76.66951	316.67929	6.10608	0.2619195	0.28206205	2.3027119	21	5 26.9	17.5
29236 1992 EB_{14}	15.5	X	324.95162	278.40613	235.05272	0.60936	0.1231635	0.26495631	2.4007846	21	—	—
29237 1992 EG_{14}	14.9	X	109.15675	144.40953	320.10618	3.89587	0.1045044	0.27452493	2.3446689	21	4 10.7	17.8
29238 1992 EE_{17}	15.0	X	233.12039	46.65141	147.12944	2.77364	0.1225404	0.25917345	2.4363651	21	12 30.9	18.2
29239 1992 EJ_{17}	15.4	X	331.08336	344.28876	133.88878	7.98992	0.0490545	0.26273332	2.4143077	21	—	—
29240 1992 GE_3	14.6	X	314.29893	74.60726	210.95619	10.87026	0.1670258	0.23712131	2.5851693	21	4 10.1	17.7
29241 1992 GA_5	14.8	X	267.79972	236.56136	49.60708	3.92860	0.2967339	0.23129953	2.6283682	21	2 8.2	19.3
29242 1992 HB_4	14.6	X	123.32645	170.18499	211.07234	21.09354	0.0745198	0.36505835	1.9389258	21	—	—
29243 1992 JC_1	14.7	X	346.02281	352.70149	61.44749	8.19819	0.1331279	0.25392139	2.4698459	21	12 24.5	17.2
29244 Van Damme	13.1	X	314.75946	8.10916	310.05204	13.14263	0.1583351	0.23460207	2.6036433	21	5 27.3	16.4
29245 1992 PZ	14.9	X	257.00309	103.21522	251.94305	1.72591	0.1195263	0.23183537	2.6243167	21	5 7.7	18.5
29246 Clausius	13.6	X	110.04760	2.30156	15.84622	8.65353	0.1667284	0.21696608	2.7428885	21	1 10.9	17.3
29247 1992 RC_4	14.6	X	179.67890	138.74374	230.39782	1.65228	0.0851763	0.22422509	2.6833660	21	3 5.8	18.7
29248 1992 SB_{10}	15.3	X	85.59068	233.22723	180.15862	5.60875	0.0553406	0.21786025	2.7353782	21	1 4.1	18.9
29249 Hiraizumi	14.3	X	52.53917	267.97061	130.74348	0.69051	0.0743359	0.21255111	2.7807405	21	—	—
29250 Helmutmoritz	14.2	X	336.51310	301.73248	183.55860	7.58413	0.1735905	0.21327867	2.7744129	21	—	—
29251 1992 UH_4	13.0	X	237.56152	271.46550	73.40659	13.67277	0.1916707	0.22549500	2.6732820	21	4 6.8	17.6
29252 Konjikido	13.8	X	128.94916	202.41691	306.04272	5.47859	0.1206038	0.18679268	3.0308386	21	7 10.7	18.4
29253 1993 DN	14.8	X	230.98731	214.07590	293.04137	4.81369	0.0783634	0.29970473	2.2114323	21	11 8.3	17.5
29254 1993 FR_1	12.6	X	243.96000	221.92376	74.66503	5.90622	0.0936275	0.17267599	3.1938517	21	2 22.0	17.5
29255 1993 FF_4	14.2	X	173.90186	55.92754	41.67356	2.34514	0.1427021	0.18440555	3.0569387	21	6 22.8	19.2
29256 1993 FC_7	15.3	X	254.24775	322.51744	34.22440	6.48062	0.1948925	0.28534455	2.2850182	21	4 25.5	18.8
29257 1993 FK_{10}	15.5	X	354.24726	252.60010	21.12923	7.34332	0.0846853	0.28590368	2.2820381	21	6 7.6	17.8
29258 1993 FX_{11}	15.9	X	303.56418	200.67186	38.30851	5.61297	0.1112682	0.27746967	2.3280504	21	1 28.1	18.9
29259 1993 FZ_{11}	15.2	X	266.18228	288.82798	59.49355	5.18081	0.1945109	0.28477527	2.2880624	21	4 27.8	18.3
29260 1993 FG_{12}	13.5	X	91.28422	293.65031	174.29303	14.56075	0.1534703	0.17710650	3.1403620	21	4 14.3	17.9
29261 1993 FS_{13}	14.5	X	288.38984	257.59771	52.74409	6.00494	0.1582714	0.28255710	2.3000215	21	4 8.0	17.4
29262 1993 FP_{14}	14.7	X	25.30564	250.11451	38.06972	7.34911	0.1701601	0.28924436	2.2644329	21	9 16.6	16.8
29263 1993 FY_{14}	14.1	X	215.30261	60.60072	38.82342	10.71112	0.0631840	0.18681323	3.0306163	21	8 14.2	18.7
29264 1993 FR_{17}	16.1	X	305.88064	328.07054	90.00970	5.00949	0.1395026	0.29705013	2.2245878	21	10 26.0	17.8
29265 1993 FV_{18}	15.2	X	9.29822	206.32579	70.09093	4.52733	0.1560721	0.28646818	2.2790392	21	7 17.2	16.8
29266 1993 FA_{20}	13.5	X	272.03450	337.71521	55.72557	10.62435	0.1553800	0.18620289	3.0372353	21	7 12.4	18.0
29267 1993 FD_{22}	14.6	X	155.78771	242.68775	211.06612	1.10521	0.2524380	0.18266224	3.0763579	21	6 6.2	19.8
29268 1993 FY_{22}	13.9	X	170.57443	83.59794	357.89401	8.44247	0.1058371	0.18124777	3.0923426	21	5 28.0	18.8
29269 1993 FD_{25}	14.6	X	141.30653	287.88223	352.66375	6.27437	0.1093766	0.26524340	2.3990520	21	—	—
29270 1993 FF_{28}	15.3	X	334.28409	84.22119	201.50348	5.97711	0.1925258	0.28391099	2.2927036	21	5 6.5	17.1
29271 1993 FF_{31}	15.6	X	223.17605	330.81666	121.44262	3.30102	0.1100603	0.29209628	2.2496694	21	8 9.3	18.5
29272 1993 FO_{31}	16.6	X	278.01113	259.33804	27.74609	2.94107	0.0752472	0.27939210	2.3173589	21	3 5.2	19.6
29273 1993 FO_{32}	16.4	X	202.50273	117.06950	151.32734	1.09067	0.1618760	0.26922079	2.3753648	21	—	—
29274 1993 FK_{33}	14.1	X	74.20895	352.01828	125.35876	3.53499	0.2437401	0.17684958	3.1434027	21	4 16.3	18.1
29275 1993 FM_{33}	15.7	X	241.92051	159.68982	108.76035	2.69090	0.1375096	0.27335280	2.3513667	21	—	—
29276 1993 FO_{33}	15.8	X	229.46860	216.28723	63.58546	3.00786	0.1999749	0.27248070	2.3563812	21	—	—
29277 1993 FB_{34}	14.5	X	120.09040	336.73953	135.23790	3.52857	0.0611415	0.17882235	3.1202413	21	5 10.2	19.0
29278 1993 FN_{34}	14.3	X	258.45344	179.79348	76.16699	4.65832	0.0639266	0.16999410	3.2273555	21	1 21.9	19.1
29279 1993 FC_{35}	15.7	X	317.74139	145.15835	158.97051	3.43021	0.1882736	0.28387441	2.2929006	21	5 5.6	18.1
29280 1993 FD_{36}	15.0	X	279.01323	229.88271	28.92468	5.89938	0.0862144	0.27660224	2.3329150	21	1 28.1	18.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
29281 1993 FJ_{38}	13.8	X	63.87017	313.83410	173.31361	9.39138	0.0550403	0.17509405	3.1643788	21	3 17.3	17.8
29282 1993 FM_{39}	15.4	X	318.89718	331.98366	11.72627	7.67693	0.1547572	0.28890688	2.2661960	21	7 17.9	17.5
29283 1993 FD_{40}	15.9	X	253.48234	46.17298	176.83505	6.78774	0.0627145	0.27158002	2.3615882	21	—	—
29284 1993 FL_{41}	15.9	X	135.14564	15.16106	154.96647	3.82209	0.0440176	0.29014871	2.2597252	21	8 11.2	18.7
29285 1993 FD_{42}	14.0	X	145.93447	352.57793	41.53754	0.92629	0.1650184	0.17472701	3.1688087	21	3 14.9	19.0
29286 1993 FA_{45}	15.3	X	237.02872	270.36979	9.97837	4.45854	0.2664086	0.27306572	2.3530144	21	1 6.0	19.4
29287 1993 FD_{49}	15.6	X	216.33206	228.67173	0.53590	1.93699	0.1582650	0.26807930	2.3821030	21	—	—
29288 1993 FJ_{51}	16.1	X	10.42827	58.24036	352.12112	3.41178	0.1736749	0.30302322	2.1952574	21	—	—
29289 1993 FM_{62}	15.0	X	239.51603	253.63222	79.72530	3.93368	0.2642562	0.27906213	2.3191853	21	3 12.5	19.0
29290 1993 FF_{84}	15.9	X	244.94211	202.48640	149.19471	4.57585	0.1700688	0.28280177	2.2986947	21	4 13.6	19.4
29291 1993 JX	15.1	X	111.06042	275.63223	226.63644	4.99145	0.0743089	0.28219564	2.3019851	21	6 3.4	18.0
29292 Conniewalker	13.6	X	283.29286	170.02226	89.82513	25.55100	0.1986868	0.27381146	2.3487401	21	1 21.9	17.4
29293 1993 OG_{9}	14.7	X	125.21022	308.15810	125.50606	10.19732	0.2033331	0.27101022	2.3648972	21	4 10.5	18.2
29294 1993 OH_{9}	15.4	X	215.90688	141.19185	147.05874	2.98808	0.0771525	0.26719896	2.3873323	21	—	—
29295 1993 OC_{13}	15.9	X	161.36141	115.76824	198.84287	1.18874	0.1415442	0.26406175	2.4062037	21	—	—
29296 1993 PY_{5}	14.3	X	234.14770	283.37511	304.12108	7.07875	0.1622137	0.26188333	2.4195289	21	—	—
29297 1993 RU_{7}	14.6	X	8.03801	169.31843	300.21409	1.59948	0.0755183	0.25862486	2.4398092	21	—	—
29298 Cruls	15.1	X	82.98374	63.83124	359.62538	19.49105	0.1046982	0.36798786	1.9286217	21	—	—
29299 1993 TW_{1}	13.6	X	230.69401	12.64279	47.57248	10.97340	0.0728764	0.23865185	2.5741045	21	7 8.5	17.4
29300 1993 TD_{25}	15.5	X	358.47584	250.96383	62.35715	3.55900	0.1677436	0.24351661	2.5397073	21	8 22.4	17.8
29301 1993 TQ_{31}	15.3	X	336.91436	152.11453	135.96240	4.40818	0.2221888	0.23955510	2.5676300	21	5 16.8	17.6
29302 1993 TY_{34}	15.8	X	313.87801	275.16253	35.19332	4.01561	0.1547375	0.23898020	2.5717462	21	5 16.4	18.6
29303 1993 TO_{36}	13.5	X	284.82342	33.62835	320.87157	17.57844	0.2422108	0.24064156	2.5598958	21	5 17.8	17.5
29304 1993 TF_{37}	15.5	X	189.82183	273.21243	130.70113	3.30021	0.1722862	0.23347334	2.6120281	21	5 1.7	19.8
29305 1993 TJ_{38}	14.4	X	180.00318	251.43591	182.05441	10.69723	0.0320200	0.23549391	2.5970656	21	5 27.7	18.1
29306 1993 TK_{38}	14.0	X	55.90438	87.26826	51.89825	13.52706	0.1092972	0.22883705	2.6471902	21	3 25.7	17.3
29307 Torbernbergman	13.8	X	110.76811	3.35223	144.46758	6.28817	0.1242261	0.23487511	2.6016252	21	6 19.4	17.5
29308 1993 UF_{1}	14.8	X	171.19412	312.09013	35.94262	21.12853	0.0923744	0.36864905	1.9263150	21	1 2.1	17.4
29309 1993 VF_{1}	13.6	X	194.94558	49.26108	62.39153	26.08083	0.2603400	0.23673615	2.5879725	21	7 31.9	18.6
29310 1993 VA_{5}	14.4	X	160.36039	20.26725	58.23016	7.02771	0.2468513	0.23140414	2.6275761	21	5 20.5	18.9
29311 Lesire	12.7	X	192.19325	222.67314	136.98026	14.47754	0.2002822	0.22463020	2.6801388	21	3 13.9	17.3
29312 1994 BL_{4}	15.0	X	159.08885	132.37561	327.98454	11.95893	0.2120604	0.23012533	2.6373014	21	6 14.2	19.7
29313 1994 CR	14.1	X	95.04659	326.34998	127.67423	5.02958	0.0896067	0.22221269	2.6995423	21	3 16.7	17.7
29314 Eurydamas	11.6	X	357.46008	134.25253	143.35082	15.23202	0.0747274	0.08095187	5.2923854	21	6 26.1	18.3
29315 1994 EV_{5}	14.2	X	323.56649	86.22142	8.47533	11.25848	0.0438242	0.20649177	2.8348770	21	12 26.4	18.1
29316 1994 LY_{1}	16.0	X	266.51741	300.06886	126.78738	8.50429	0.0767206	0.29365558	2.2416985	21	9 8.6	18.5
29317 1994 PR_{9}	15.8	X	189.93653	278.23473	190.36130	2.39449	0.1250093	0.28864598	2.2675613	21	7 22.9	19.2
29318 1994 PH_{14}	15.3	X	280.29384	222.19656	203.76390	1.38568	0.2348671	0.29163362	2.2520481	21	8 28.4	17.5
29319 1994 PS_{14}	15.4	X	85.75632	294.81847	327.82817	4.06876	0.1243129	0.29621374	2.2287734	21	10 25.2	18.3
29320 1994 PW_{14}	15.8	X	237.94984	267.68793	163.83903	4.02453	0.0867083	0.28964608	2.2623386	21	7 31.2	18.7
29321 1994 PL_{16}	15.4	X	98.81032	285.30326	314.69869	5.59968	0.0844184	0.29461027	2.2368531	21	10 4.2	18.3
29322 1994 PS_{16}	16.5	X	290.48275	210.34053	162.25670	6.18555	0.1937990	0.28897024	2.2658647	21	7 1.5	19.1
29323 1994 PN_{19}	16.1	X	341.92678	305.27424	317.80407	2.05996	0.1540670	0.28579165	2.2826344	21	4 19.3	18.1
29324 1994 PM_{31}	15.3	X	313.87644	79.72661	190.59499	6.42811	0.0974989	0.28309367	2.2971143	21	3 24.6	18.0
29325 1994 PN_{39}	16.1	X	357.86324	197.98483	144.11854	2.00320	0.0908197	0.29419177	2.2389739	21	10 6.3	18.0
29326 1994 RK_{3}	15.9	X	106.35132	88.14151	159.21461	2.68552	0.1629295	0.26091145	2.4255336	21	10 29.4	19.6
29327 1994 SV_{9}	14.7	X	152.47862	117.83231	17.48434	5.06762	0.1155836	0.28509487	2.2863521	21	7 20.7	18.0
29328 Hanshintigers	14.6	X	285.51687	70.72794	277.20015	3.47157	0.1926282	0.28236745	2.3010512	21	5 19.0	17.4
29329 Knobelsdorff	15.2	X	215.33459	67.58355	27.29348	4.40238	0.1157641	0.28600846	2.2814807	21	8 4.3	18.3
29330 1994 UK	15.5	X	60.51901	331.67378	67.75352	2.22792	0.1898045	0.26401260	2.4065023	21	—	—
29331 1994 UC_{8}	14.6	X	306.72608	264.26296	12.06630	6.20348	0.2293641	0.28055314	2.3109611	21	3 5.2	17.7
29332 1994 VE	14.1	X	17.62007	108.99063	33.67327	11.16252	0.0405297	0.27023363	2.3694258	21	1 13.1	17.1
29333 1994 VE_{2}	15.5	X	108.67603	20.01997	31.01690	5.31501	0.1759138	0.27048208	2.3679746	21	2 11.6	18.3
29334 1994 XJ	14.2	X	99.15367	99.74084	64.78239	6.97192	0.0575503	0.27704755	2.3304145	21	6 15.9	16.9
29335 1994 XL	14.5	X	347.58614	160.55496	355.76071	3.75896	0.1905282	0.26336082	2.4104712	21	—	—
29336 1994 YT_{1}	15.0	X	35.83237	10.31937	52.46053	2.70788	0.1104363	0.26038265	2.4288164	21	—	—
29337 Hakurojo	14.0	X	235.17941	41.45901	161.17821	6.26797	0.1608985	0.25473035	2.4646141	21	—	—
29338 1995 AV_{2}	14.4	X	274.54894	80.50673	54.32043	4.18652	0.1585647	0.25371734	2.4711700	21	12 5.2	16.9
29339 1995 BA	14.4	X	351.30498	57.65619	68.71566	1.74272	0.1700929	0.26114495	2.4240875	21	—	—
29340 1995 BF	14.6	X	336.74048	25.15552	139.61737	3.90955	0.1614972	0.22468303	2.6797187	21	—	—
29341 1995 BC_{1}	14.6	X	151.78840	131.43443	319.09716	15.79611	0.1381158	0.23625965	2.5914510	21	5 17.2	18.9
29342 1995 CF_{1}	14.2	X	205.40527	9.55818	104.34120	8.34473	0.1862216	0.24388156	2.5371730	21	8 12.6	18.3
29343 1995 CK_{10}	14.0	X	8.57029	237.18641	296.02157	11.45819	0.1222100	0.22846988	2.6500257	21	2 8.2	17.0
29344 1995 DX	14.6	X	344.70189	73.63988	141.38463	12.12422	0.1514128	0.22708103	2.6608199	21	2 26.2	17.5
29345 Ivandanilov	14.2	X	25.80777	20.54855	162.02734	5.85151	0.1215350	0.22770976	2.6559198	21	3 28.7	16.9
29346 Mariadina	14.8	X	254.81430	62.09495	156.56492	12.01079	0.2370191	0.21739261	2.7392996	21	—	—
29347 Natta	14.3	X	114.34142	105.17201	140.51793	5.37208	0.0241479	0.24405683	2.5359581	21	10 24.1	17.7
29348 Criswick	14.8	X	92.64247	169.89417	8.38988	3.56414	0.1457254	0.23405382	2.6077076	21	7 11.6	18.4
29349 1995 FQ_{4}	14.1	X	33.94958	263.82270	61.46654	2.42499	0.0867503	0.24401335	2.5362593	21	10 31.2	17.2
29350 1995 FQ_{20}	14.5	X	275.98258	183.51108	32.43735	13.60466	0.0881922	0.21853648	2.7297325	21	—	—
29351 1995 HP_{2}	15.0	X	72.23224	323.13840	74.92221	6.14536	0.1594224	0.21473102	2.7618888	21	—	—
29352 1995 JR	14.6	X	241.55820	63.98944	64.53421	8.38220	0.2090913	0.24434455	2.5339669	21	10 6.9	18.3
29353 Manu	14.3	X	334.54900	53.21299	312.48423	10.14545	0.1213384	0.19171389	2.9787473	21	9 9.1	17.9
29354 1995 OR_{1}	14.0	X	237.27513	229.66218	94.54067	2.56512	0.1428711	0.17854524	3.1234689	21	3 14.5	19.0
29355 Siratakayama	13.5	X	77.84830	72.81299	198.17255	9.20977	0.0412934	0.19192351	2.9765780	21	10 3.9	17.5
29356 Giovarduino	13.8	X	234.95482	67.74407	248.85184	0.60363	0.1682380	0.17379361	3.1801445	21	3 1.2	18.9
29357 1995 YE_{6}	16.2	X	90.88148	0.68855	216.76480	2.62780	0.1393515	0.29518643	2.2339415	21	9 1.5	19.2
29358 1996 AY_{7}	15.3	X	20.54204	252.72426	7.72497	2.66011	0.1454589	0.28663717	2.2781433	21	7 14.6	17.2
29359 1996 BK	15.6	X	56.68341	153.28270	322.96847	10.46119	0.1967972	0.27591724	2.3367746	21	2 10.4	17.2
29360 1996 BR_{14}	15.3	X	0.21508	350.18152	331.97606	6.38151	0.2072297	0.29336347	2.2431864	21	9 17.6	16.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
29361 Botticelli	15.5	X	123.36547	6.27131	125.18572	6.24493	0.0925245	0.28491704	2.2873034	21	6 7.5	18.4
29362 Azumakofuzi	14.8	X	221.25043	43.83671	98.93268	2.91721	0.0979253	0.29376539	2.2411399	21	10 19.7	17.6
29363 1996 CW_8	15.1	X	351.38570	214.08712	358.90384	6.73086	0.0651095	0.27690133	2.3312348	21	3 7.3	17.5
29364 1996 DG	15.0	X	125.15050	116.56564	78.11804	3.27465	0.0628248	0.28845621	2.2685558	21	9 6.1	17.9
29365 1996 DN_2	14.7	X	36.60001	145.40358	49.98850	3.62662	0.1259001	0.27858386	2.3218389	21	4 29.3	16.6
29366 1996 DS_6	15.0	X	147.62580	161.71401	336.83709	5.43172	0.0922247	0.28711151	2.2756335	21	7 17.9	18.1
29367 1996 EN_{12}	15.4	X	142.15818	97.83440	292.13468	6.25899	0.1168138	0.27462307	2.3441103	21	2 13.1	18.6
29368 1996 FF_2	15.2	X	91.21116	221.66177	301.70819	3.48293	0.1257036	0.28233344	2.3012360	21	6 14.1	18.0
29369 1996 FK_2	15.2	X	337.32818	252.20723	195.77963	4.21116	0.1144350	0.30061152	2.2069829	21	—	—
29370 1996 FQ_4	14.6	X	161.71517	318.41457	173.41269	3.93449	0.0770406	0.28483471	2.2877441	21	7 22.7	17.8
29371 1996 FG_{16}	15.6	X	75.53095	289.04881	206.02039	1.47360	0.1516092	0.27563807	2.3383521	21	4 13.1	18.0
29372 1996 GA	14.1	X	279.24919	207.74457	26.21915	13.75985	0.1347332	0.26887061	2.3774269	21	—	—
29373 Hamanowa	14.5	X	359.76146	74.26697	114.42051	5.00522	0.0602907	0.27070714	2.3666620	21	2 15.9	17.0
29374 Kazumitsu	15.0	X	343.71448	183.10793	15.32883	2.55358	0.1768557	0.27085564	2.3657969	21	1 17.7	17.5
29375 1996 GN_{17}	15.3	X	244.83884	333.60102	190.80700	1.81432	0.1553756	0.25763956	2.4460257	21	12 2.7	18.2
29376 1996 GU_{17}	14.6	X	39.28443	224.64188	30.87013	9.28790	0.1162793	0.24245783	2.5470955	21	8 10.3	17.7
29377 1996 GV_{18}	14.6	X	205.99804	333.05053	43.85199	7.51222	0.1207975	0.27439249	2.3454233	21	4 10.3	18.0
29378 1996 HP_4	14.4	X	14.55529	233.67086	42.73127	8.42036	0.1325785	0.24281697	2.5445834	21	7 27.7	17.1
29379 1996 HX_{12}	14.3	X	353.37695	93.24438	202.35697	6.44212	0.1821793	0.24011701	2.5636226	21	7 8.6	16.6
29380 1996 HO_{13}	14.9	X	10.25563	64.19294	211.91780	3.56255	0.1067579	0.24089769	2.5580810	21	7 13.2	17.7
29381 1996 HR_{15}	15.2	X	319.73248	309.18969	170.32201	1.81220	0.1164957	0.26020101	2.4299466	21	—	—
29382 1996 HM_{16}	14.7	X	349.02170	32.06582	220.77875	6.62263	0.1799496	0.23605628	2.5929393	21	4 22.3	17.2
29383 1996 HA_{23}	15.0	X	55.89233	33.87194	212.01929	6.21130	0.1784710	0.24235182	2.5478383	21	8 26.1	18.1
29384 1996 HO_{23}	14.8	X	138.66552	293.99554	201.95202	5.01389	0.0591705	0.28017856	2.3130203	21	6 28.7	17.8
29385 1996 JT	15.0	X	40.10776	73.67544	229.86371	4.59074	0.1369961	0.24579038	2.5240200	21	10 17.2	18.0
29386 1996 JC_5	14.8	X	5.85941	26.68889	115.49936	7.38663	0.0841664	0.26628301	2.3928037	21	—	—
29387 1996 JC_6	14.7	X	225.58553	30.74552	149.13998	3.00481	0.1329972	0.25625555	2.4548250	21	12 1.9	18.1
29388 1996 JD_6	14.8	X	98.65587	183.70878	189.61917	6.11258	0.0963642	0.26156714	2.4214784	21	—	—
29389 1996 LZ	14.9	X	37.35990	297.46675	294.39438	0.66590	0.1248656	0.23876333	2.5733032	21	6 29.2	17.6
29390 1996 LO_3	14.5	X	159.33950	133.60949	167.88571	6.21527	0.1266521	0.25826605	2.4420685	21	—	—
29391 Knight	15.2	X	271.97687	332.70762	294.13647	1.20313	0.1671798	0.22739865	2.6583416	21	1 28.9	19.2
29392 1996 MN_1	14.3	X	4.16233	192.89019	92.94573	14.22863	0.1378393	0.23978843	2.5659640	21	7 18.9	16.8
29393 1996 NA_3	13.7	X	103.05111	40.39581	140.11421	14.96378	0.0360950	0.23371829	2.6102028	21	7 11.1	17.4
29394 Hirokohamanowa	13.9	X	258.68036	21.08540	275.96184	12.47311	0.1551989	0.22500017	2.6772000	21	2 17.4	18.3
29395 1996 PO_1	15.1	X	53.00905	110.52202	18.76298	2.78850	0.1603142	0.22441537	2.6818489	21	3 6.3	17.9
29396 1996 PM_3	14.0	X	181.61326	333.99306	149.24134	13.16986	0.1319687	0.23369565	2.6103714	21	7 31.9	18.2
29397 1996 RU_3	14.9	X	149.51530	47.26866	17.06381	2.03972	0.0550962	0.22232403	2.6986410	21	4 9.0	18.6
29398 1996 RM_5	14.5	X	146.66859	132.52766	165.88897	14.13528	0.1588997	0.21176718	2.7875988	21	—	—
29399 1996 RO_5	14.0	X	54.59261	101.45033	154.97344	11.64109	0.1469015	0.23703012	2.5858323	21	9 5.6	17.0
29400 1996 RO_6	14.8	X	302.20022	25.29838	331.67221	1.11552	0.0812283	0.19265106	2.9690792	21	7 15.8	18.5
29401 Asterix	14.3	X	75.26817	313.48631	55.29486	2.88063	0.0898163	0.20722870	2.8281522	21	—	—
29402 Obelix	14.5	X	210.44245	6.40438	6.50827	8.23712	0.0451535	0.18178652	3.0862298	21	4 16.2	19.0
29403 1996 TO_{13}	14.9	X	313.86617	166.38728	203.45835	10.72935	0.0986262	0.19263497	2.9692445	21	8 13.8	18.9
29404 Hikarusato	14.0	X	39.92641	18.43469	353.73758	1.54887	0.0788114	0.20249500	2.8720578	21	12 28.7	17.9
29405 1996 TN_{18}	13.8	X	49.99996	241.29612	243.39552	0.96246	0.1701623	0.17249084	3.1961368	21	3 5.5	17.6
29406 1996 TS_{32}	13.6	X	27.00015	9.39998	208.84338	12.79450	0.1154812	0.22735174	2.6587073	21	5 21.5	16.6
29407 1996 UW	15.2	X	349.24452	281.74775	39.26938	5.07816	0.3019278	0.27254039	2.3560371	21	8 18.6	15.9
29408 1996 VJ_5	12.7	X	286.84945	7.34724	40.69473	20.75796	0.2649163	0.19120288	2.9840523	21	8 11.5	17.1
29409 1996 VW_5	13.7	X	284.04635	327.31313	79.87005	14.12222	0.1356157	0.18934703	3.0035190	21	8 22.7	17.9
29410 1996 VD_6	13.4	X	116.94963	207.42175	207.49178	3.94012	0.1441509	0.17180178	3.2046770	21	3 6.7	18.2
29411 1996 WQ_2	13.1	X	127.47423	233.75058	260.62165	16.40045	0.1982251	0.17820938	3.1273922	21	6 27.2	18.1
29412 1996 WJ_3	13.5	X	184.61455	273.40975	206.61734	10.05230	0.1242473	0.18812004	3.0165649	21	7 27.9	18.5
29413 1996 XE_1	13.4	X	278.67377	75.42055	280.01288	10.09934	0.1270786	0.18223692	3.0811427	21	6 4.6	17.9
29414 1996 XF_1	13.9	X	175.24806	293.59331	84.18816	5.84244	0.1770187	0.17561089	3.1581669	21	3 24.8	19.2
29415 1996 XU_5	14.1	X	232.80517	74.71039	299.03702	6.78521	0.1797064	0.17991028	3.1076497	21	5 1.9	19.3
29416 1996 XX_5	14.5	X	148.54591	130.98603	280.35690	2.14585	0.3216005	0.17532032	3.1616556	21	4 15.1	20.2
29417 1996 XR_{26}	13.3	X	334.81130	307.01884	243.24228	8.30567	0.1950798	0.21280179	2.7785563	21	1 4.0	17.0
29418 1997 AH_{13}	13.8	X	197.76109	324.65455	70.45534	8.95978	0.2542380	0.17686909	3.1431716	21	5 1.3	19.4
29419 Mládková	14.1	X	121.57014	239.78326	110.84109	2.24714	0.0988687	0.16207006	3.3317126	21	—	—
29420 Ikuo	13.3	X	217.01161	62.01621	351.98535	9.28211	0.0337856	0.17957349	3.1115341	21	6 16.6	17.9
29421 1997 AV_{18}	15.7	X	161.59466	228.65009	113.90691	24.52605	0.0939393	0.36601104	1.9355598	21	—	—
29422 1997 AH_{21}	12.6	X	188.98306	320.23740	115.88933	18.55035	0.2037305	0.17923742	3.1154223	21	6 12.7	18.1
29423 1997 AF_{22}	12.9	X	148.39579	72.74711	334.73907	16.15086	0.2603689	0.17289823	3.1911142	21	4 1.4	18.5
29424 1997 BV_4	13.5	X	107.33761	134.95582	353.37477	18.23249	0.1996550	0.17717279	3.1395786	21	5 27.3	18.6
29425 1997 CZ_{21}	15.6	X	284.71010	201.50320	10.20236	2.61599	0.0518405	0.32041041	2.1151036	21	—	—
29426 1997 CH_{28}	12.7	X	121.05324	148.91405	317.22856	9.53059	0.1633342	0.17493959	3.1662410	21	5 12.0	17.7
29427 Oswaldthomas	16.5	X	119.24017	82.58296	164.16879	5.20485	0.0847161	0.30472750	2.1870646	21	11 12.7	19.4
29428 Ettoremajorana	15.4	X	343.96871	325.50054	187.38537	22.35331	0.0910551	0.36062716	1.9547764	21	—	—
29429 1997 GO_{13}	16.3	X	138.12545	37.26299	282.15447	0.48967	0.1850954	0.31188822	2.1534596	21	—	—
29430 Mimiyen	15.9	X	333.67112	41.86916	213.26192	6.35694	0.1043249	0.28557394	2.2837944	21	3 30.8	18.3
29431 Shijimi	14.5	X	59.01901	192.19679	51.52766	7.18850	0.1553573	0.29464893	2.2366574	21	9 4.2	17.1
29432 Williamscott	14.1	X	122.83561	213.49992	44.82264	2.78848	0.1319957	0.18267002	3.0762706	21	11 14.9	18.9
29433 1997 HC_3	12.9	X	72.50498	317.09380	197.12906	4.83636	0.0622989	0.12634322	3.9333998	21	5 7.2	18.2
29434 1997 HZ_{13}	16.4	X	317.56562	329.43358	64.31839	2.52311	0.0827352	0.29992108	2.2103687	21	10 13.3	18.2
29435 Mordell	15.6	X	57.56204	96.81989	217.58694	4.97651	0.2198827	0.29892434	2.2152795	21	12 14.7	18.6
29436 1997 JT_{14}	15.1	X	254.85938	257.36454	62.58054	7.84857	0.2017897	0.28142251	2.3061992	21	3 13.8	18.8
29437 Marchais	15.0	X	244.03214	179.51807	137.10692	10.43480	0.2333611	0.27851469	2.3222233	21	2 24.1	18.9
29438 1997 MV	15.4	X	206.84072	20.02427	123.23364	8.71018	0.0426830	0.29445413	2.2376438	21	10 11.9	18.3
29439 Maxfabiani	15.0	X	86.33353	15.87461	206.42111	5.85746	0.0888030	0.29099265	2.2553539	21	8 24.7	17.8
29440 1997 MK_4	15.2	X	182.86960	79.83240	117.42963	5.08589	0.0873391	0.30007200	2.2096275	21	11 18.2	18.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
29441 1997 NN_1	15.7	X	82.56788	300.25478	140.45347	6.19764	0.1796513	0.26910101	2.3760696	21	2 9.7	17.8
29442 1997 NS_4	15.5	X	150.84367	79.87791	204.56231	8.75986	0.1575376	0.26538075	2.3982241	21	—	—
29443 Remocorti	15.3	X	313.01603	42.97391	282.63716	11.06816	0.1889224	0.28492590	2.2872559	21	5 28.2	17.7
29444 1997 NR_{10}	16.2	X	158.64139	153.84310	156.00656	5.27364	0.2403286	0.26577127	2.3958743	21	—	—
29445 1997 PH	14.7	X	64.40758	335.10529	25.59689	6.44192	0.1329544	0.25896031	2.4377018	21	—	—
29446 Gouguenheim	15.8	X	190.35707	263.99383	169.19797	3.40459	0.1553281	0.28024612	2.3126486	21	6 5.9	19.3
29447 Jerzyneyman	15.1	X	82.77754	292.87861	83.63574	7.14699	0.0701574	0.26163622	2.4210521	21	—	—
29448 Pappos	15.7	X	118.13098	259.07609	136.67237	1.42955	0.2942760	0.26579321	2.3957424	21	2 20.0	18.8
29449 Taharbenjelloun	15.0	X	129.61374	279.27746	155.91200	13.37874	0.1503165	0.22980473	2.6397537	21	4 13.9	19.0
29450 Tomohiroohno	13.7	X	82.65510	207.68365	320.77464	4.02402	0.0659474	0.27868167	2.3212956	21	5 29.0	16.4
29451 1997 RM_1	14.7	X	132.60383	290.28580	2.10324	5.07582	0.3469476	0.26147393	2.4220538	21	—	—
29452 1997 RV_2	14.6	X	83.31197	269.60748	171.82529	12.32622	0.1351173	0.26655482	2.3911768	21	2 3.7	17.3
29453 1997 RU_6	14.9	X	190.18883	306.66728	345.56300	5.55730	0.1488946	0.26492598	2.4009679	21	—	—
29454 1997 RZ_6	15.0	X	166.31341	244.90175	12.77061	2.69949	0.1393255	0.25751326	2.4468254	21	—	—
29455 1997 SX_1	14.0	X	141.02978	248.92877	208.91621	4.42965	0.1455382	0.23020577	2.6366870	21	5 21.4	18.0
29456 Evakrchová	15.5	X	104.83801	187.62227	230.08590	1.59050	0.1578876	0.26744248	2.3858829	21	2 9.6	18.2
29457 Marcopolo	15.1	X	114.69145	134.34923	191.14901	2.23426	0.1935935	0.26033969	2.4290836	21	—	—
29458 Pearson	15.5	X	125.37116	337.26976	29.81532	2.72730	0.2194634	0.26227737	2.4171049	21	1 12.9	18.6
29459 1997 SO_{16}	15.2	X	122.89355	281.89916	6.03429	6.89101	0.1278882	0.25582241	2.4575951	21	12 31.5	19.1
29460 1997 SR_{31}	15.7	X	1.10263	118.18345	355.01938	3.67053	0.0889697	0.26171573	2.4205617	21	—	—
29461 1997 SP_{32}	15.5	X	127.42464	301.02383	352.75847	2.11999	0.1881635	0.25763191	2.4460742	21	—	—
29462 1997 SG_{34}	14.5	X	111.80736	38.36825	26.39770	13.13836	0.1934608	0.22308573	2.6924947	21	3 18.6	18.3
29463 Benjaminpeirce	14.8	X	58.01696	295.63859	198.86043	14.60789	0.0591521	0.22683518	2.6627421	21	3 7.5	18.2
29464 Leonmiš	15.8	X	306.74567	285.83945	87.40385	2.30330	0.1844839	0.24222681	2.5487148	21	8 1.4	18.5
29465 1997 TX_{10}	15.9	X	194.02384	271.52475	177.71551	9.33999	0.1336677	0.23897247	2.5718016	21	6 30.7	20.1
29466 1997 TN_{17}	13.8	X	49.03124	12.18280	229.75864	15.12236	0.1243588	0.23819936	2.5773634	21	7 28.1	17.2
29467 Shandongdaxue	14.3	X	43.35424	349.62720	38.10710	9.78116	0.1624090	0.21075647	2.7965040	21	—	—
29468 1997 UC	14.8	X	105.24649	128.01101	185.77455	14.41662	0.1829342	0.25657327	2.4527980	21	—	—
29469 1997 UV_2	14.7	X	29.12921	240.14482	263.79650	1.22816	0.1370034	0.22217696	2.6998318	21	2 7.7	17.4
29470 Higgs	13.1	X	44.35982	194.17278	57.16848	13.71826	0.1398993	0.23604173	2.5930458	21	8 18.4	16.5
29471 Spejbl	14.4	X	335.75537	253.13516	326.59397	3.20193	0.1103734	0.27437911	2.3454995	21	2 13.6	17.1
29472 Hurvínek	15.3	X	161.69837	242.69898	197.51651	5.01150	0.1546233	0.23243551	2.6197975	21	5 20.3	19.4
29473 Krejčí	15.3	X	132.09217	292.10218	48.26531	1.53822	0.0959104	0.21716327	2.7412278	21	—	—
29474 1997 UT_8	14.5	X	9.04011	124.24866	209.74420	5.53773	0.1460265	0.24458007	2.5323399	21	10 10.5	17.1
29475 1997 UF_{11}	13.9	X	225.70399	307.13332	27.83340	23.13452	0.2265887	0.27240138	2.3568386	21	3 14.7	18.2
29476 Kvíčala	14.5	X	81.21685	349.14318	42.93613	10.19702	0.1049969	0.21769938	2.7367256	21	—	—
29477 Zdíkšíma	14.9	X	199.11562	309.17689	226.64940	10.54835	0.0869473	0.24630144	2.5205274	21	10 29.9	18.5
29478 1997 UW_{17}	14.1	X	87.90079	187.63101	55.00018	8.59587	0.0237442	0.24105866	2.5569421	21	9 17.7	17.6
29479 1997 VJ_1	13.8	X	44.26981	249.92539	312.09732	14.36036	0.0661035	0.23226436	2.6210844	21	5 17.7	17.3
29480 1997 VO_1	13.5	X	176.70682	308.96533	46.12894	14.29988	0.1771459	0.22488525	2.6781120	21	2 26.8	18.1
29481 1997 VJ_3	13.7	X	149.71699	175.17324	228.02091	3.43839	0.0814954	0.22432914	2.6825362	21	3 14.4	17.6
29482 1997 VM_3	13.4	X	327.95436	91.82947	78.84231	7.20351	0.0542236	0.21696536	2.7428946	21	—	—
29483 Boeker	15.9	X	104.69133	192.88954	180.65508	4.20645	0.2462137	0.26081908	2.4261062	21	—	—
29484 Honzaveselý	14.3	X	256.55220	85.28627	5.84867	4.37324	0.1108117	0.24058636	2.5602874	21	9 15.9	17.5
29485 1997 VE_7	14.5	X	342.13006	258.26453	255.71039	4.93629	0.1515004	0.26050294	2.4280687	21	—	—
29486 1997 VG_7	15.4	X	350.83584	89.51462	278.67340	1.25108	0.1947705	0.24584393	2.5236535	21	10 30.9	17.6
29487 1997 VU_8	13.6	X	273.09372	164.18147	256.24404	12.33465	0.1533491	0.23813826	2.5778043	21	8 13.9	17.3
29488 1997 WM	14.2	X	295.83937	272.59768	252.91345	13.07854	0.1164561	0.21127188	2.7919540	21	—	—
29489 1997 WQ	13.4	X	273.89651	258.38723	54.16734	12.71473	0.1951250	0.22965546	2.6408975	21	3 30.6	17.5
29490 Myslbek	14.4	X	198.73864	30.69920	9.02109	7.98789	0.0710235	0.27516326	2.3410413	21	4 28.6	17.6
29491 Pfaff	15.2	X	174.12070	61.50056	358.00965	2.35951	0.0813079	0.23079545	2.6321939	21	5 1.7	19.1
29492 1997 WP_2	13.0	X	161.51774	29.46849	82.01024	11.15672	0.0957866	0.23157544	2.6262802	21	6 25.9	16.8
29493 1997 WR_5	14.2	X	359.92008	110.86674	88.75899	2.88738	0.0105688	0.22541863	2.6738858	21	3 15.9	17.8
29494 1997 WL_7	13.9	X	135.81657	214.28549	250.07162	3.48166	0.0903640	0.22918257	2.6445289	21	5 17.9	17.5
29495 1997 WU_7	13.7	X	290.29536	34.85888	32.39507	13.44411	0.2405546	0.24260356	2.5460755	21	9 17.8	16.6
29496 1997 WE_8	13.8	X	331.91416	324.79370	247.96782	4.96978	0.0927674	0.22306439	2.6926664	21	2 9.6	17.3
29497 1997 WD_{15}	13.1	X	290.59413	143.50576	41.76107	5.98716	0.1180191	0.21573080	2.7533491	21	—	—
29498 1997 WK_{21}	13.8	X	164.65443	118.84276	195.51116	4.77280	0.0460843	0.21442135	2.7645474	21	—	—
29499 1997 WT_{21}	14.3	X	63.09682	286.76091	60.23942	3.12013	0.0737128	0.20502177	2.8484115	21	12 25.8	18.2
29500 1997 WP_{32}	13.9	X	91.20493	322.68738	146.20544	1.92697	0.1501926	0.18229096	3.0805337	21	4 12.8	18.1
29501 1997 WQ_{32}	15.0	X	51.51647	225.17076	99.74668	4.90337	0.1614114	0.24801249	2.5089212	21	12 5.3	18.3
29502 1997 WL_{35}	14.9	X	326.79195	136.20991	234.04244	5.19949	0.1698144	0.24212268	2.5494455	21	9 5.3	17.3
29503 1997 WQ_{38}	14.3	X	216.85288	205.81511	257.24186	8.72622	0.1611523	0.23667539	2.5884154	21	8 6.3	18.4
29504 1997 WS_{44}	14.4	X	67.95738	12.41803	86.84309	4.39292	0.0841659	0.21922498	2.7240142	21	2 12.2	17.7
29505 1997 WV_{44}	13.9	X	308.67457	278.20809	235.56639	6.69039	0.1644236	0.21004548	2.8028110	21	—	—
29506 1997 XM	14.4	X	259.20370	50.36815	23.63134	2.45585	0.1775922	0.23730697	2.5838208	21	8 17.3	17.9
29507 1997 XV	14.0	X	201.25969	197.94161	351.25984	4.75657	0.0259936	0.20313104	2.8660594	21	11 16.9	18.1
29508 Bottinelli	14.4	X	131.31855	336.00859	86.96425	2.26910	0.1804758	0.17809907	3.1286834	21	4 5.8	19.3
29509 1997 YK_1	13.9	X	261.41325	63.97130	282.74258	8.44147	0.0928043	0.18996828	2.9969672	21	5 5.9	18.5
29510 1997 YF_2	13.8	X	245.02497	239.95169	106.85280	10.46309	0.0971432	0.18350260	3.0669585	21	4 24.8	18.6
29511 1997 YP_3	14.4	X	39.90105	165.97718	186.96471	1.63728	0.0288254	0.20319584	2.8654500	21	11 28.3	18.3
29512 1997 YL_5	14.1	X	0.52433	10.84077	127.57395	6.54599	0.0816415	0.21224863	2.7833818	21	—	—
29513 1997 YT_5	13.1	X	1.61124	28.00172	284.92902	9.38821	0.1050557	0.19133210	2.9827086	21	8 15.1	16.7
29514 Karatsu	13.6	X	194.89816	243.21229	293.06613	15.32027	0.1683741	0.19605307	2.9346318	21	10 7.3	18.7
29515 1997 YL_7	13.1	X	152.88681	18.18003	87.74257	15.05320	0.2310160	0.22752013	2.6573953	21	6 16.9	17.5
29516 1997 YO_7	13.6	X	189.92130	42.23441	103.36280	11.65693	0.0571717	0.19087791	2.9874383	21	9 13.4	18.2
29517 1997 YQ_{10}	13.2	X	246.14275	37.29259	77.66927	9.66873	0.0822750	0.19633717	2.9318002	21	10 7.9	17.5
29518 1997 YW_{11}	13.7	X	128.51406	249.57379	93.02364	4.72121	0.0989495	0.21037011	2.7999269	21	—	—
29519 1997 YH_{13}	14.1	X	23.60587	284.74023	251.69348	5.79308	0.1427281	0.17481897	3.1676973	21	3 21.9	17.9
29520 1997 YH_{14}	14.4	X	187.52058	224.00521	322.88211	1.03571	0.0521514	0.19647081	2.9304705	21	10 27.2	18.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
29521 1997 YK_{14}	13.4	X	209.02933	3.14653	314.76457	8.54392	0.0667267	0.17240271	3.1972260	21	2 9.8	18.2
29522 1997 YL_{15}	14.6	X	193.07144	297.29007	28.46272	0.67180	0.1865693	0.17458563	3.1705191	21	2 5.8	19.7
29523 1997 YO_{21}	14.8	X	74.75818	295.84266	98.20025	4.65218	0.0992331	0.21091743	2.7950811	21	—	—
29524 1998 AE	13.6	X	348.72993	37.06732	110.81367	11.51376	0.2097050	0.17000581	3.2272073	21	—	—
29525 1998 AF	15.4	X	300.94595	307.90431	160.39278	5.11666	0.1004559	0.28717161	2.2753160	21	12 30.2	17.6
29526 1998 AV	13.1	X	182.33719	264.40222	114.64358	22.36477	0.0036281	0.17632238	3.1496654	21	4 2.7	18.0
29527 1998 AY_{6}	14.1	X	234.84764	12.37077	64.78742	2.27774	0.1758963	0.19206358	2.9751306	21	7 23.7	18.8
29528 Kaplinski	14.1	X	160.10609	326.13931	44.32189	15.58179	0.0962464	0.22481618	2.6786605	21	2 24.2	18.3
29529 1998 BM	12.9	X	250.53614	321.39095	347.30714	8.39415	0.0750490	0.17683874	3.1435312	21	3 13.1	17.6
29530 1998 BT	13.9	X	131.49750	116.37330	102.94736	11.16262	0.0341424	0.19325802	2.9628593	21	10 9.4	18.3
29531 1998 BA_{1}	13.4	X	304.43096	176.18977	133.13698	13.83806	0.1377906	0.18175440	3.0865934	21	5 13.7	17.8
29532 1998 BJ_{1}	14.0	X	121.12335	73.78149	122.62248	9.77389	0.0589640	0.18801859	3.0176499	21	8 27.3	18.4
29533 1998 BW_{1}	14.1	X	210.08619	276.79818	156.74218	2.20846	0.2281064	0.18907116	3.0064399	21	6 23.2	19.3
29534 1998 BP_{7}	14.3	X	211.55563	271.99407	160.25385	1.66941	0.1014479	0.18724155	3.0259929	21	6 29.1	18.9
29535 1998 BF_{8}	14.0	X	262.59110	308.47133	135.20425	10.44947	0.0228975	0.19176849	2.9781818	21	9 25.3	18.2
29536 1998 BC_{12}	12.8	X	174.25640	339.89096	110.66765	11.62253	0.0325250	0.18616936	3.0376000	21	6 13.3	17.3
29537 1998 BW_{15}	13.9	X	50.85504	214.88882	292.63754	8.13330	0.0521547	0.17508405	3.1644992	21	3 20.2	18.3
29538 1998 BN_{16}	11.7	X	284.96434	49.59495	87.69050	14.66965	0.0556220	0.15762849	3.3940084	21	12 15.2	16.3
29539 1998 BT_{23}	13.8	X	170.38179	183.30466	147.24909	0.46424	0.1414626	0.16947383	3.2339573	21	1 21.8	18.9
29540 1998 BV_{24}	13.2	X	238.48201	240.35587	75.55295	6.07828	0.1618343	0.17368703	3.1814453	21	3 7.1	18.4
29541 1998 BZ_{24}	14.2	X	114.54636	351.82914	146.06739	2.72827	0.1504149	0.18135531	3.0911200	21	6 15.0	18.8
29542 1998 BZ_{25}	14.1	X	237.37793	327.11059	96.49348	11.07707	0.0713567	0.18747228	3.0235095	21	7 20.3	18.5
29543 1998 BV_{29}	13.9	X	14.73774	323.36734	91.69276	10.51375	0.0965328	0.21035102	2.8000963	21	—	—
29544 1998 BE_{30}	13.4	X	124.60216	217.82576	2.99131	10.81352	0.0484114	0.19031652	2.9933102	21	9 27.9	17.7
29545 1998 BM_{31}	13.7	X	231.97449	331.08364	18.95400	0.19753	0.1688730	0.18051066	3.1007553	21	4 6.1	18.5
29546 1998 BV_{33}	12.8	X	146.94032	337.42743	55.47486	5.89166	0.0624580	0.17148119	3.2086700	21	3 8.0	17.5
29547 Yurimazzanti	13.2	X	227.46890	320.41192	70.70401	11.59650	0.0755399	0.18459082	3.0548929	21	5 27.9	17.6
29548 1998 BC_{42}	14.2	X	159.81508	331.82753	118.07331	11.79627	0.0188879	0.18148349	3.0896643	21	5 27.3	18.7
29549 1998 BB_{44}	14.1	X	347.06916	40.04015	88.79532	10.01729	0.1273033	0.20903195	2.8118637	21	—	—
29550 1998 BE_{44}	13.5	X	189.93286	284.61714	105.63604	13.86453	0.2037935	0.22406755	2.6846236	21	4 21.3	18.3
29551 1998 CH_{1}	14.6	X	325.26634	231.20479	186.71528	1.92853	0.0718921	0.19877655	2.9077648	21	11 10.0	18.3
29552 Chern	13.5	X	322.43231	294.39902	97.01440	6.79855	0.0795800	0.20177820	2.8788557	21	10 5.5	17.1
29553 1998 CZ_{3}	14.1	X	39.38743	0.22948	151.27753	1.88832	0.1084132	0.17255278	3.1953719	21	3 18.1	17.9
29554 1998 CL_{4}	13.5	X	342.91769	38.14411	324.75128	8.95877	0.0812772	0.19193315	2.9764783	21	9 20.8	17.3
29555 MACEK	12.1	X	210.79255	224.98833	112.29923	13.86875	0.1215039	0.17522000	3.1628622	21	3 10.0	17.3
29556 1998 DR_{2}	13.2	X	224.88572	114.02826	346.98499	9.24793	0.0445512	0.18929494	3.0040699	21	8 26.2	17.4
29557 1998 DV_{3}	13.9	X	131.67950	285.21797	180.98760	1.17586	0.1614724	0.18136973	3.0909561	21	5 25.6	18.8
29558 1998 DN_{4}	14.1	X	70.29685	305.13569	162.81194	10.21777	0.1512419	0.21577423	2.7529796	21	3 7.1	17.1
29559 1998 DS_{4}	13.7	X	277.04251	228.41037	151.08821	16.00241	0.1021723	0.18745836	3.0236592	21	7 7.3	18.1
29560 1998 DE_{9}	13.6	X	81.44597	94.96152	12.45435	14.66667	0.0102537	0.17102832	3.2143318	21	3 14.3	18.2
29561 Iatteri	13.3	X	187.88368	329.82341	44.41231	8.92155	0.1219092	0.18062809	3.0994111	21	3 30.1	18.2
29562 Danmacdonald	13.3	X	97.43664	71.29460	169.97122	10.51411	0.0507275	0.19056776	2.9906787	21	9 22.8	17.6
29563 1998 DY_{26}	13.7	X	135.17522	224.06552	342.37314	10.24410	0.0355296	0.19028049	2.9936880	21	9 19.8	18.1
29564 1998 ED_{6}	11.9	X	252.74852	56.05781	292.96313	13.39109	0.2136111	0.18082799	3.0971265	21	4 13.9	17.2
29565 Glenngould	14.1	X	196.79632	135.41727	330.52874	2.27160	0.2246089	0.18709302	3.0275941	21	7 22.2	19.3
29566 1998 FK_{5}	15.2	X	158.14955	323.23899	21.91897	24.13273	0.1204357	0.41670263	1.7752188	21	—	—
29567 1998 FT_{13}	12.7	X	292.80688	344.76636	41.69954	10.34439	0.1109190	0.18846167	3.0129184	21	8 10.5	16.8
29568 Gobbi–Belcredi	13.7	X	35.72326	321.09397	80.31140	3.20946	0.0973417	0.20352509	2.8623588	21	—	—
29569 1998 FA_{23}	13.3	X	80.00817	31.16265	160.24230	12.03779	0.0443054	0.18115097	3.0934441	21	6 26.7	17.8
29570 1998 FY_{27}	14.1	X	182.66016	199.94156	296.46582	2.63683	0.1005583	0.18629130	3.0362743	21	8 17.8	18.8
29571 1998 FC_{29}	13.1	X	225.26836	186.70237	171.30731	14.29092	0.1394028	0.17598456	3.1536949	21	4 13.8	18.2
29572 1998 FH_{30}	13.8	X	285.64200	255.33820	184.91856	10.85151	0.0845153	0.19289850	2.9665396	21	10 10.3	17.7
29573 1998 FU_{38}	13.8	X	158.24650	278.81485	185.30724	5.57236	0.1503101	0.18156683	3.0887188	21	6 16.6	18.8
29574 1998 FM_{45}	12.8	X	223.79855	196.64158	131.30116	5.22375	0.0409410	0.12814987	3.8963437	21	3 17.6	18.4
29575 Gundlapalli	14.5	X	183.51451	316.00651	150.89715	5.62460	0.1310809	0.18334571	3.0687079	21	7 12.8	19.5
29576 1998 FF_{52}	13.7	X	78.49088	356.02796	163.41208	4.45016	0.1429503	0.17622211	3.1508601	21	5 30.0	18.0
29577 1998 FA_{53}	13.3	X	109.02656	79.71646	4.62962	5.28015	0.1536152	0.17253282	3.1956184	21	4 4.1	18.0
29578 1998 FU_{53}	13.7	X	165.07317	62.26241	333.87759	6.98227	0.1299113	0.17257254	3.1951279	21	3 30.1	18.8
29579 1998 FV_{54}	13.5	X	143.15944	336.88762	182.88796	16.96365	0.1261471	0.18301048	3.0724542	21	8 5.3	18.5
29580 1998 FK_{55}	13.1	X	85.18405	272.66886	176.46870	16.53183	0.0800712	0.16914292	3.2381739	21	3 1.2	17.6
29581 1998 FR_{55}	14.0	X	203.23829	265.29332	168.82187	12.97671	0.1373829	0.18199714	3.0838483	21	6 21.9	19.2
29582 1998 FR_{58}	13.0	X	117.34508	98.41442	45.45098	1.80016	0.0770563	0.17851859	3.1237799	21	6 16.9	17.4
29583 1998 FA_{60}	13.6	X	194.00973	358.49480	81.99713	2.10933	0.1566442	0.18156270	3.0887657	21	6 20.3	18.6
29584 1998 FQ_{60}	13.7	X	177.96080	85.05238	357.46905	0.83807	0.1683404	0.18019820	3.1043386	21	6 8.4	18.7
29585 Johnhale	14.2	X	202.18974	8.96279	76.87302	3.34179	0.1420377	0.18250515	3.0781230	21	7 4.9	19.2
29586 1998 FT_{66}	13.8	X	76.16146	123.23871	25.84687	6.36621	0.1155258	0.17419818	3.1752187	21	5 7.6	18.0
29587 1998 FR_{69}	13.9	X	187.20498	55.53904	62.96492	3.03716	0.1705253	0.18382843	3.0633334	21	7 31.1	19.0
29588 1998 FM_{71}	13.1	X	90.18593	111.82532	18.51690	15.85836	0.1739963	0.17402553	3.1773184	21	5 7.5	17.7
29589 1998 FV_{98}	13.5	X	300.83712	141.57096	324.95823	9.76613	0.1161542	0.19778935	2.9174323	21	11 30.0	17.3
29590 1998 FR_{115}	13.9	X	206.64969	106.87821	346.55417	10.53380	0.1161599	0.18266697	3.0763049	21	7 22.5	18.8
29591 1998 FK_{121}	13.0	X	232.99170	268.86041	39.87999	5.60336	0.1315709	0.12466082	3.9687102	21	2 28.8	19.1
29592 1998 FP_{123}	13.9	X	266.95072	56.67777	353.89425	3.62247	0.2368843	0.18646594	3.0343782	21	7 16.9	18.3
29593 1998 FA_{129}	13.4	X	228.98786	27.73589	347.98642	10.04643	0.0866858	0.17908101	3.1172360	21	5 5.8	18.4
29594 1998 GK_{8}	13.3	X	138.15347	256.90091	170.54781	27.64430	0.1472797	0.17185196	3.2040532	21	4 17.5	18.5
29595 1998 HL_{14}	12.0	X	72.52443	46.78089	50.48369	22.92400	0.1114998	0.17304644	3.1892919	21	3 13.1	16.7
29596 1998 HO_{32}	13.8	X	131.81401	281.36096	195.54400	16.69294	0.1458561	0.17758217	3.1347517	21	6 6.9	18.9
29597 1998 HT_{37}	13.4	X	101.80134	90.67602	1.12544	9.31982	0.1136267	0.17028532	3.2236750	21	3 30.2	17.9
29598 1998 HB_{62}	14.0	X	137.79296	71.55200	63.78274	2.81839	0.0785103	0.17853905	3.1235411	21	6 29.8	18.6
29599 1998 HZ_{119}	12.8	X	94.73805	34.98458	88.40455	13.12329	0.0884228	0.17144945	3.2090661	21	5 1.8	17.5
29600 1998 HP_{134}	13.5	X	88.08765	97.23976	49.68831	11.44664	0.0440093	0.17524795	3.1625259	21	5 11.1	17.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
29601 1998 KK_{31}	13.8	X	170.98128	50.20732	91.44608	10.61133	0.2509157	0.18104791	3.0946179	21	8 16.0	19.3
29602 1998 LA_{2}	14.6	X	0.31185	344.97828	234.11175	5.27932	0.0733347	0.29545516	2.2325867	21	3 23.2	16.9
29603 1998 MO_{44}	11.1	X	306.70780	190.21133	113.57228	33.39969	0.0346808	0.08453753	5.1416558	21	6 3.6	18.2
29604 1998 QX_{5}	14.2	X	181.21882	262.51557	17.28311	11.88226	0.2588238	0.22907748	2.6453376	21	—	—
29605 1998 QF_{54}	15.5	X	262.72081	166.48424	208.79594	6.18551	0.1201729	0.29211802	2.2495578	21	6 8.8	18.4
29606 1998 QN_{94}	14.5	X	275.23990	50.15321	155.00536	23.90093	0.2090763	0.27763274	2.3271386	21	—	—
29607 Jakehecla	15.1	X	233.28275	65.54103	35.21290	6.92498	0.1549959	0.29732651	2.2232090	21	8 31.8	18.1
29608 1998 RP_{50}	16.7	X	46.75752	0.85666	16.88008	2.24645	0.1326855	0.31032065	2.1607056	21	—	—
29609 Claudiahuang	14.4	X	354.93025	132.89699	218.01321	8.57249	0.1749525	0.21469409	2.7622055	21	10 3.5	17.1
29610 Iyengar	15.2	X	26.82789	59.93896	252.91309	3.68733	0.1497528	0.30141040	2.2030815	21	10 20.8	17.4
29611 1998 RO_{77}	16.7	X	113.23250	175.50113	147.31431	4.91137	0.2035313	0.31314552	2.1476916	21	—	—
29612 Cindyjiang	15.0	X	124.90797	29.33424	132.50086	3.68129	0.1888014	0.29189763	2.2506900	21	7 31.2	18.3
29613 Charlespicard	16.6	X	171.33413	135.30611	182.24934	4.70032	0.1372272	0.31870145	2.1226580	21	—	—
29614 Sheller	15.9	X	229.94456	70.12810	39.97743	3.46641	0.1191371	0.29507174	2.2345203	21	9 12.4	18.8
29615 1998 SL_{47}	15.1	X	345.61371	232.63744	15.85541	2.30681	0.1264863	0.28964380	2.2623505	21	4 7.9	17.0
29616 1998 SG_{64}	15.2	X	327.04908	23.33093	114.49088	2.62001	0.2282966	0.26698776	2.3885911	21	—	—
29617 1998 SK_{108}	15.6	X	333.98846	241.68312	228.55077	4.10671	0.0280789	0.31128517	2.1562400	21	—	—
29618 Jinandrew	15.5	X	141.63033	33.70962	176.13187	5.86671	0.1190246	0.30043953	2.2078251	21	10 19.1	18.6
29619 Kapurubandage	15.9	X	156.20836	261.39119	183.31837	5.23226	0.1210701	0.28535636	2.2849552	21	5 16.1	19.1
29620 Gurbanikaur	15.8	X	175.80193	199.11780	229.48532	3.77955	0.1189173	0.28571412	2.2830473	21	5 14.5	19.1
29621 1998 SY_{141}	16.2	X	62.59061	257.93040	81.91444	4.15948	0.2033224	0.30779547	2.1725072	21	—	—
29622 1998 SM_{145}	13.8	X	11.52357	121.23367	35.14468	6.91526	0.1301271	0.27582430	2.3372995	21	1 10.5	16.2
29623 1998 SR_{164}	14.3	X	36.04689	66.54254	40.16311	11.91257	0.1970230	0.26968745	2.3726239	21	—	—
29624 Sugiyama	13.7	X	278.33259	258.37226	0.05190	7.34400	0.0876657	0.27965553	2.3159034	21	1 26.3	16.9
29625 1998 TF_{7}	14.4	X	303.61607	23.30734	178.42145	5.69149	0.0834673	0.19118671	2.9842205	21	—	—
29626 1998 TV_{12}	15.5	X	247.93720	327.74537	214.00202	2.07415	0.1147179	0.26340183	2.4102210	21	—	—
29627 1998 TX_{12}	15.0	X	348.43396	333.18736	211.80460	1.82542	0.1688040	0.27521110	2.3407700	21	1 5.4	17.7
29628 1998 TX_{30}	14.4	X	265.97991	78.15922	9.91401	5.98742	0.1004019	0.29777549	2.2209737	21	10 3.1	16.4
29629 1998 UP_{16}	15.0	X	82.31436	333.10791	221.19018	4.64326	0.0715835	0.28879917	2.2667594	21	7 7.0	17.6
29630 1998 UN_{32}	14.1	X	18.15726	220.01420	276.08419	11.70493	0.1092655	0.22349088	2.6892397	21	1 9.2	17.1
29631 Ryankenny	15.7	X	57.57888	225.31150	45.05699	4.72417	0.0714417	0.29757028	2.2219947	21	9 25.3	18.1
29632 1998 UR_{44}	16.2	X	228.97791	46.94011	23.86801	7.60585	0.1192654	0.29150217	2.2527251	21	7 17.6	19.4
29633 Weatherwax	15.1	X	77.43019	312.06574	240.50671	4.91200	0.0995600	0.28702349	2.2760987	21	7 2.1	17.7
29634 1998 VB_{3}	14.2	X	263.11721	359.84975	327.01895	1.15335	0.1099808	0.19773529	2.9179640	21	4 12.1	18.5
29635 1998 VP_{5}	15.0	X	319.57548	119.74400	12.23041	6.34531	0.1080254	0.26449409	2.4035808	21	—	—
29636 1998 VH_{6}	15.1	X	137.30087	68.66478	24.54194	9.42579	0.1005458	0.28239994	2.3008748	21	4 30.9	18.1
29637 1998 VN_{11}	14.6	X	182.50147	177.02709	108.04267	1.98357	0.1438780	0.31472403	2.1405044	21	—	—
29638 Eeshakhare	15.2	X	109.24382	30.13647	114.76054	5.94912	0.0985419	0.28553395	2.2840076	21	6 8.7	18.0
29639 1998 VO_{22}	16.0	X	27.71720	2.71332	16.73529	3.06624	0.1520881	0.30561318	2.1828371	21	—	—
29640 1998 VQ_{22}	15.1	X	264.88309	79.10262	269.73348	2.39451	0.2014913	0.24502246	2.5292910	21	4 27.4	18.8
29641 Kaikloepfer	16.1	X	163.64925	11.99410	43.22143	3.95955	0.1177100	0.28180125	2.3041324	21	4 14.0	19.4
29642 Archiekong	15.3	X	170.49845	82.87032	15.83856	4.73784	0.0824116	0.28684958	2.2770186	21	6 17.4	18.4
29643 Plücker	15.1	X	237.43589	226.71610	240.93143	3.89788	0.0946258	0.29408856	2.2394978	21	9 18.4	17.9
29644 1998 VA_{33}	15.2	X	315.10215	315.04975	234.67268	1.30015	0.1587379	0.27012887	2.3700384	21	—	—
29645 Kutsenok	16.0	X	220.79840	351.00576	65.35262	4.28086	0.1877729	0.28884507	2.2665193	21	6 11.1	19.5
29646 Polya	16.5	X	278.09894	179.82535	223.73543	3.89317	0.0824822	0.29247285	2.2477380	21	8 16.6	19.0
29647 Poncelet	15.8	X	58.32943	289.60079	197.33688	2.02860	0.1629745	0.27392248	2.3481054	21	2 27.6	17.6
29648 1998 WM_{3}	14.5	X	131.65650	114.06074	55.33333	3.39108	0.1014847	0.24222614	2.5487195	21	8 10.3	18.2
29649 1998 WP_{6}	14.5	X	181.28778	49.77948	59.41544	4.86964	0.1433041	0.24258140	2.5462305	21	7 15.1	18.5
29650 Toldy	15.8	X	215.33838	278.76232	85.39423	8.02575	0.1448336	0.28167712	2.3048093	21	4 4.7	19.4
29651 1998 WA_{9}	15.7	X	33.44781	245.42425	349.63246	7.32128	0.1621116	0.28878872	2.2668141	21	7 2.4	17.7
29652 1998 WD_{9}	15.2	X	127.05490	203.05930	207.36011	8.27026	0.1432242	0.27688732	2.3313135	21	2 23.8	18.4
29653 1998 WG_{9}	15.4	X	212.06918	351.59135	53.59830	5.37960	0.2259828	0.28302033	2.2975111	21	5 18.2	19.1
29654 Michaellaue	15.4	X	292.45430	1.13368	143.63040	2.14656	0.1462051	0.26214838	2.4178977	21	—	—
29655 Yarimlee	15.2	X	345.20275	287.42384	43.46616	2.38145	0.0252299	0.29271558	2.2464952	21	8 25.3	17.5
29656 Leejoseph	15.3	X	289.65295	293.35627	177.75885	2.90458	0.1510132	0.25805614	2.4433926	21	12 1.2	17.8
29657 Andreali	14.5	X	255.31705	55.78272	166.56635	2.35014	0.1627380	0.26792879	2.3829950	21	—	—
29658 Henrylin	14.9	X	25.06372	347.68972	262.48449	3.10332	0.1221560	0.28768270	2.2726203	21	7 3.4	16.9
29659 Zeyuliu	15.6	X	135.87029	41.37837	40.73005	5.26589	0.1459413	0.27993456	2.3143642	21	4 21.6	18.7
29660 Jessmacalpine	15.9	X	158.12049	70.35672	21.43445	3.51906	0.1480238	0.28403445	2.2920392	21	5 27.9	19.2
29661 1998 WT_{20}	14.0	X	154.13966	30.40996	206.49844	4.23883	0.1357269	0.30238397	2.1983502	21	12 5.2	17.1
29662 1998 WD_{23}	14.8	X	281.91725	294.53770	238.88295	4.27207	0.0412993	0.30874049	2.1680718	21	—	—
29663 Evanmackay	15.9	X	232.71348	24.26387	69.58259	4.68746	0.0775807	0.29335095	2.2432502	21	8 30.4	18.7
29664 1998 WY_{23}	13.3	X	2.24079	102.61777	85.43881	14.06512	0.1243003	0.22393438	2.6856879	21	2 28.1	16.6
29665 1998 WD_{24}	12.9	X	167.69309	239.39470	346.89491	7.98863	0.2109760	0.20305775	2.8667490	21	11 16.7	17.9
29666 1998 WC_{31}	15.5	X	180.91257	337.37352	106.73603	6.28863	0.1197477	0.28530803	2.2852132	21	6 10.7	18.8
29667 1998 XF	13.3	X	217.38042	222.40898	23.71200	11.46007	0.1321221	0.21264022	2.7799636	21	—	—
29668 Ipf	14.6	X	45.88106	194.79675	346.33057	2.97073	0.1035365	0.23535022	2.5981226	21	4 26.8	17.4
29669 1998 XZ_{3}	14.4	X	161.11823	139.29720	29.50346	5.76833	0.1069405	0.29113427	2.2546225	21	9 15.1	17.5
29670 1998 XS_{4}	13.5	X	266.33772	349.88615	291.82720	12.24900	0.1607586	0.23018606	2.6368375	21	2 7.6	17.6
29671 1998 XX_{8}	15.2	X	352.68080	16.40325	110.67055	3.29759	0.1293950	0.26667903	2.3904342	21	—	—
29672 Salvo	15.4	X	212.15972	144.63135	71.38988	3.68341	0.1282021	0.25998049	2.4313205	21	—	—
29673 1998 XK_{11}	14.7	X	170.32442	89.14153	304.88644	3.67511	0.0948186	0.27653935	2.3332687	21	3 20.5	17.9
29674 Raušal	15.6	X	41.15821	357.56843	77.02836	3.40603	0.1949400	0.26646088	2.3917387	21	—	—
29675 1998 XV_{15}	15.6	X	149.28163	266.18623	347.38386	5.53361	0.0632802	0.25894168	2.4378187	21	12 15.7	19.1
29676 1998 XW_{15}	14.2	X	2.72982	233.88527	270.62587	18.91680	0.2037213	0.26903075	2.3764833	21	—	—
29677 1998 XL_{17}	14.4	X	282.43726	110.93975	61.69943	6.31602	0.0699853	0.26051482	2.4279949	21	—	—
29678 1998 XZ_{18}	15.8	X	69.52312	78.72726	83.69388	3.96609	0.1063754	0.28080214	2.3095947	21	5 7.5	18.1
29679 1998 XF_{23}	14.9	X	216.50426	295.39683	287.36452	1.22472	0.1807264	0.26318262	2.4115591	21	—	—
29680 1998 XM_{27}	14.2	X	317.25152	311.26337	296.62383	6.17287	0.0803883	0.27884365	2.3203966	21	2 27.1	17.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
29681 Saramanshad	15.1	X	175.92331	58.42356	38.99170	8.94349	0.0526260	0.24036142	2.5618845	21	6 22.1	18.8
29682 1998 XR_{48}	14.2	X	70.22642	101.87859	83.44530	7.35022	0.0523714	0.28097015	2.3086739	21	6 2.9	16.8
29683 1998 XO_{50}	15.4	X	135.92067	132.24295	286.98040	1.11424	0.2242844	0.27605700	2.3359859	21	3 30.5	18.7
29684 1998 XF_{51}	14.1	X	281.13302	5.56771	53.18044	5.39753	0.1623484	0.29286659	2.2457229	21	9 5.3	16.4
29685 Soibamansoor	14.5	X	314.17604	56.80629	92.19492	7.16778	0.0539745	0.26188263	2.4195332	21	—	—
29686 Raymondmaung	14.8	X	87.20717	151.89615	292.54306	6.46435	0.0666084	0.27204367	2.3589042	21	2 4.5	17.6
29687 Mohdreza	15.3	X	83.53657	346.02440	120.34588	6.10931	0.1564595	0.27518107	2.3409403	21	3 19.1	17.7
29688 1998 XM_{92}	14.0	X	152.36843	52.94705	119.78798	5.43399	0.1060736	0.24485757	2.5304263	21	9 7.2	17.7
29689 1998 XY_{93}	14.6	X	18.50121	256.21450	232.85542	6.73405	0.0610707	0.26801907	2.3824598	21	—	—
29690 Nistala	14.6	X	342.95727	315.83499	186.22802	8.98338	0.0542024	0.26507690	2.4000565	21	—	—
29691 1998 XH_{96}	13.7	X	197.91909	136.46584	120.11637	9.95271	0.1030030	0.21425508	2.7659774	21	—	—
29692 1998 XE_{97}	15.7	X	113.25617	121.13293	312.56275	2.61801	0.1113107	0.27223336	2.3578083	21	3 7.1	18.4
29693 1998 YC	14.7	X	322.66823	120.28544	281.71018	3.05647	0.0950002	0.29497956	2.2349858	21	10 31.9	16.8
29694 1998 YG	14.6	X	45.35951	287.29715	226.37820	1.41337	0.1459932	0.22576266	2.6711687	21	3 23.5	17.4
29695 1998 YH	14.7	X	107.35890	218.84933	305.05508	4.24514	0.2183156	0.23401735	2.6079786	21	7 18.1	18.6
29696 Distasio	13.9	X	250.89361	213.60667	8.47424	7.71382	0.1636650	0.21034256	2.8001713	21	—	—
29697 1998 YR_{1}	13.7	X	214.96541	130.68551	157.52829	12.63787	0.0596511	0.21810129	2.7333624	21	1 4.1	18.0
29698 1998 YE_{3}	14.5	X	82.29550	225.32291	283.51491	7.14262	0.1294678	0.27692432	2.3311058	21	5 8.9	17.2
29699 1998 YF_{4}	15.6	X	152.86481	286.83142	130.31070	6.39059	0.1653778	0.27701538	2.3305949	21	4 11.7	19.1
29700 Salmon	15.9	X	9.67564	175.23724	278.47528	8.30778	0.1343235	0.26295017	2.4129801	21	—	—
29701 Peggyhaas	14.3	X	201.47574	259.93219	228.05247	17.51046	0.1985854	0.24392869	2.5368462	21	8 17.5	18.9
29702 1998 YY_{6}	14.8	X	262.88168	323.29512	232.24812	4.85223	0.0696178	0.21725630	2.7404452	21	—	—
29703 1998 YL_{7}	14.6	X	235.20026	308.53949	61.05925	6.05662	0.1660874	0.28100746	2.3084695	21	4 27.3	18.0
29704 1998 YB_{9}	15.8	X	323.33181	95.34359	211.09920	2.88881	0.1527051	0.28866134	2.2674809	21	5 24.4	18.0
29705 Cialucy	14.0	X	210.13484	101.67718	348.29200	4.00167	0.1064292	0.23669000	2.5883090	21	7 21.4	17.9
29706 Simonetta	15.5	X	150.05375	260.86866	97.55585	3.98822	0.2353373	0.27185606	2.3599893	21	1 29.4	18.9
29707 1998 YU_{14}	15.6	X	49.63907	21.84806	153.45503	3.59174	0.0503824	0.28045182	2.3115176	21	4 16.6	18.0
29708 1998 YQ_{15}	15.0	X	227.17959	16.38816	124.78071	5.49373	0.0970235	0.29313290	2.2443625	21	10 26.4	17.8
29709 1999 AF_{2}	14.2	X	9.94578	129.61294	16.65220	2.54281	0.1549150	0.26733234	2.3865382	21	—	—
29710 1999 AK_{2}	14.6	X	127.06643	18.07706	39.32509	3.80927	0.0914141	0.22825123	2.6517177	21	3 9.7	18.2
29711 1999 AU_{5}	14.3	X	51.43822	130.89004	85.71837	9.81744	0.0269092	0.19139260	2.9820800	21	6 18.5	18.2
29712 1999 AX_{6}	15.3	X	359.18920	117.05346	291.01155	4.02279	0.1239465	0.29957353	2.2120780	21	—	—
29713 1999 AK_{7}	14.8	X	176.11978	92.26076	267.49442	5.30090	0.1362019	0.27118661	2.3638716	21	2 13.9	18.4
29714 1999 AL_{7}	15.0	X	88.57169	316.42545	152.28576	6.45146	0.0815528	0.27256839	2.3558758	21	3 17.5	17.5
29715 1999 AW_{7}	13.9	X	280.48054	264.74476	94.97751	14.60891	0.1350181	0.23987306	2.5653605	21	6 10.7	17.3
29716 1999 AY_{7}	14.8	X	240.69889	1.91872	91.13148	10.08830	0.1223750	0.28934673	2.2638987	21	9 4.5	17.9
29717 1999 AC_{8}	15.3	X	248.01980	159.48671	20.91213	5.88498	0.1079855	0.29899934	2.2149090	21	—	—
29718 1999 AH_{18}	13.7	X	43.28125	35.87618	127.67041	13.90215	0.1849620	0.22772977	2.6557642	21	4 14.1	16.6
29719 1999 AF_{19}	12.7	X	151.42832	32.26449	315.01199	11.45401	0.0205861	0.17571757	3.1568886	21	1 11.5	17.2
29720 1999 AC_{20}	15.3	X	217.59975	212.25621	123.70727	2.86796	0.1158334	0.22662415	2.6643948	21	3 5.4	19.5
29721 1999 AC_{21}	15.4	X	135.20484	56.99430	338.16449	6.42826	0.1161834	0.27142907	2.3624637	21	2 14.5	18.5
29722 1999 AQ_{23}	13.8	X	30.10302	97.47202	135.31219	14.72478	0.1207312	0.23186266	2.6241109	21	6 18.7	16.9
29723 1999 AD_{24}	14.2	X	89.09393	184.07306	123.57955	13.73103	0.2205046	0.25458334	2.4655627	21	12 28.9	18.3
29724 1999 AP_{24}	14.7	X	83.58910	358.99433	140.25763	3.42190	0.0556477	0.22916005	2.6447022	21	4 23.7	18.1
29725 Mikewest	13.7	X	1.43010	101.80886	137.85793	2.39712	0.1008944	0.18328056	3.0694350	21	5 10.3	17.4
29726 1999 AH_{26}	14.8	X	62.72302	302.13362	244.44310	3.88026	0.0464650	0.23582460	2.5946372	21	5 25.4	18.1
29727 1999 AC_{34}	15.7	X	299.60957	236.11884	133.25132	1.89836	0.2143460	0.28776633	2.2721800	21	7 8.3	17.8
29728 1999 AM_{34}	14.8	X	242.96288	153.75706	308.33098	4.98805	0.0527393	0.28869125	2.2673243	21	9 23.6	17.5
29729 1999 BY_{1}	13.9	X	20.26281	20.86266	121.59623	25.37946	0.1988121	0.26766401	2.3845663	21	—	—
29730 1999 BE_{2}	13.8	X	43.39158	245.96337	265.82651	21.74532	0.2789061	0.26989402	2.3714130	21	2 26.9	16.0
29731 1999 BY_{2}	14.3	X	22.04764	334.64017	135.10097	16.92024	0.1631280	0.21922387	2.7240233	21	—	—
29732 1999 BZ_{2}	13.6	X	249.99302	157.87802	5.54392	5.63863	0.0628341	0.25255872	2.4787219	21	12 21.2	16.8
29733 1999 BA_{4}	13.9	X	228.26884	132.43831	77.52731	5.54051	0.0870542	0.25765280	2.4459419	21	—	—
29734 1999 BP_{5}	14.9	X	121.55010	309.34900	181.89205	4.71440	0.1397656	0.27580998	2.3373804	21	6 10.8	18.1
29735 1999 BR_{6}	13.8	X	342.65011	68.42629	41.16930	7.09985	0.0716227	0.20962663	2.8065433	21	—	—
29736 Fichtelberg	15.0	X	128.54013	101.03241	37.23223	7.15067	0.0558318	0.27933221	2.3176902	21	6 18.2	18.0
29737 Norihiro	14.3	X	274.77700	53.62262	150.28603	9.59822	0.0951214	0.21503070	2.7593221	21	—	—
29738 Ivobudil	14.7	X	234.07561	204.42085	167.26311	3.02330	0.0884598	0.27854234	2.3220696	21	5 4.3	17.9
29739 1999 BM_{9}	15.0	X	222.84921	359.47355	45.47351	3.50641	0.1443479	0.28311335	2.2970079	21	5 31.5	18.4
29740 1999 BS_{9}	13.4	X	135.66800	29.88456	343.73031	11.15107	0.1396214	0.22493542	2.6777137	21	1 31.9	17.3
29741 1999 BM_{10}	14.9	X	284.30555	236.40182	142.70198	4.56208	0.1821831	0.28638605	2.2794749	21	7 4.0	17.7
29742 1999 BQ_{12}	12.7	X	299.76048	239.90180	100.46578	16.05419	0.1644354	0.23981516	2.5657734	21	6 7.4	15.9
29743 1999 BM_{15}	14.7	X	226.15335	307.33575	159.55198	14.00799	0.1404593	0.24195443	2.5506273	21	8 26.0	18.3
29744 1999 BG_{20}	14.1	X	245.29423	355.97442	339.81436	14.89583	0.1259834	0.23463889	2.6033709	21	3 25.6	18.3
29745 Mareknovak	14.9	X	302.61252	351.08127	52.20097	8.87494	0.1527282	0.29362435	2.2418575	21	9 25.3	16.9
29746 1999 BB_{25}	14.7	X	34.96192	189.91631	232.16569	5.06421	0.0643861	0.30507545	2.1854014	21	—	—
29747 Acorlando	14.7	X	88.42393	326.41826	179.75676	7.41421	0.0664474	0.27689227	2.3312857	21	5 7.9	17.4
29748 1999 BZ_{31}	15.1	X	256.05355	31.48097	313.32577	5.75531	0.2047410	0.28034106	2.3121264	21	4 8.3	18.7
29749 1999 CN	15.0	X	127.65311	25.08398	92.42727	2.05460	0.1607799	0.27743548	2.3282416	21	6 1.1	18.2
29750 Chleborad	13.9	X	34.78006	337.01502	103.18118	7.16621	0.0730860	0.26048214	2.4281979	21	—	—
29751 1999 CE_{4}	14.6	X	64.76467	160.15130	134.86302	2.56095	0.0215180	0.20070272	2.8891309	21	10 17.6	18.5
29752 1999 CG_{4}	14.9	X	115.67248	147.80005	342.36996	5.52486	0.1191482	0.27595335	2.3365707	21	5 28.5	18.0
29753 Silvo	13.9	X	144.13140	244.28371	107.36846	10.05908	0.1413439	0.26736669	2.3863338	21	1 2.9	17.0
29754 1999 CE_{5}	15.2	X	104.63121	16.86927	19.69559	3.12712	0.0846076	0.22126564	2.7072398	21	1 12.9	18.7
29755 1999 CT_{5}	14.0	X	338.34992	271.08720	116.54183	5.75290	0.1155835	0.24615497	2.5215271	21	11 2.1	16.6
29756 1999 CW_{5}	14.0	X	219.40735	54.02793	53.08270	5.70253	0.1808540	0.24197266	2.5504992	21	8 18.6	18.0
29757 1999 CH_{8}	13.4	X	28.45232	131.50744	100.87271	12.56753	0.1342866	0.23093929	2.6311009	21	6 15.4	16.1
29758 1999 CN_{8}	13.5	X	179.49826	7.55028	99.71995	15.19898	0.1074932	0.23626358	2.5914223	21	7 10.2	17.4
29759 1999 CR_{8}	15.0	X	94.89586	278.04919	162.31191	4.91783	0.0744201	0.22532654	2.6746142	21	2 21.7	18.4
29760 Milevsko	14.2	X	301.45878	168.27151	354.92591	2.09967	0.1134183	0.21599498	2.7511036	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
29761 Lorenzo	15.3	X	142.60130	279.57714	160.77088	1.91600	0.1955894	0.27616063	2.3354014	21	5 2.2	18.8
29762 Panasiewicz	14.2	X	55.49524	247.19276	11.12934	6.81714	0.1050506	0.28588993	2.2821112	21	9 8.7	16.7
29763 1999 CH_{20}	14.5	X	180.79240	341.33719	16.38218	8.94255	0.2292817	0.27255291	2.3559650	21	2 26.8	18.4
29764 Panneerselvam	14.7	X	70.71637	8.01103	116.28438	4.23917	0.0471805	0.22745755	2.6578827	21	3 15.9	18.1
29765 Miparedes	15.1	X	28.26236	130.10553	14.25294	1.43768	0.0930346	0.26827257	2.3809587	21	1 27.5	17.3
29766 1999 CL_{24}	14.6	X	157.27779	251.94158	114.15429	9.83419	0.2261572	0.27003843	2.3705675	21	2 15.3	18.3
29767 1999 CO_{24}	13.6	X	296.88142	131.68564	81.89283	7.25825	0.1099731	0.22059444	2.7127285	21	—	—
29768 1999 CZ_{27}	13.3	X	234.44800	71.07583	84.02309	14.04608	0.0676944	0.20681661	2.8319078	21	11 14.8	17.4
29769 1999 CE_{28}	12.2	X	213.75725	224.94384	96.60816	12.87357	0.1962441	0.22472028	2.6794225	21	2 14.4	16.9
29770 Timmpiper	15.2	X	228.28655	247.61484	125.85128	6.93946	0.1534999	0.27830940	2.3233652	21	4 28.3	18.8
29771 1999 CA_{31}	13.7	X	266.60437	176.45814	70.19896	3.06145	0.1323666	0.17507678	3.1645868	21	1 11.9	18.6
29772 Portocarrero	14.4	X	313.00032	131.61193	35.13549	3.97376	0.0325568	0.21727778	2.7402646	21	—	—
29773 Samuelpritt	14.1	X	11.53936	63.09244	123.94224	2.50309	0.0893775	0.18159233	3.0884296	21	3 18.8	17.8
29774 1999 CL_{44}	15.4	X	176.58322	325.44930	110.00612	4.74528	0.1372362	0.27935875	2.3175434	21	5 26.4	18.8
29775 1999 CO_{45}	13.8	X	113.69811	9.18581	2.81575	3.53592	0.0832707	0.26197798	2.4189461	21	—	—
29776 Radzhabov	14.8	X	203.02948	352.35670	44.04325	1.99750	0.1295495	0.23285144	2.6166768	21	5 3.5	18.9
29777 1999 CK_{46}	13.2	X	310.47568	257.54861	338.21870	7.60482	0.1750324	0.17742059	3.1366547	21	2 10.2	17.5
29778 1999 CO_{48}	14.0	X	151.38454	332.22012	343.82605	13.01526	0.1084320	0.21390769	2.7689713	21	—	—
29779 1999 CK_{49}	14.1	X	317.93466	272.65813	18.62346	9.04306	0.0630715	0.18777121	3.0202998	21	5 12.2	18.2
29780 1999 CJ_{50}	15.4	X	258.48199	107.84704	348.56979	6.15025	0.3193073	0.29188592	2.2507501	21	8 29.9	18.4
29781 1999 CL_{50}	14.8	X	57.13812	325.30599	135.97592	2.86000	0.1696942	0.26673750	2.3900849	21	1 19.3	16.6
29782 1999 CN_{50}	14.5	X	228.05661	270.68320	149.49786	14.48638	0.1760812	0.23908284	2.5710101	21	6 25.7	18.7
29783 Sanjanarane	14.8	X	30.02814	276.87826	150.53316	2.76820	0.1732412	0.25973287	2.4328655	21	—	—
29784 1999 CD_{51}	14.1	X	166.70628	354.34230	120.33515	3.12511	0.0887264	0.23643490	2.5901703	21	7 5.7	17.7
29785 1999 CD_{55}	14.4	X	31.28299	351.91834	93.70025	5.82141	0.0706952	0.21617696	2.7495594	21	—	—
29786 1999 CO_{57}	14.4	X	236.45269	296.34740	149.30180	11.15397	0.1514704	0.24183073	2.5514970	21	8 8.0	18.1
29787 Timrenier	14.4	X	266.68144	338.25755	16.12570	3.56631	0.1557247	0.23319722	2.6140896	21	5 12.7	18.2
29788 Rachelrossi	14.7	X	5.88041	165.49518	169.91918	1.83419	0.1238468	0.24386495	2.5372881	21	10 5.1	17.2
29789 1999 CD_{64}	13.9	X	194.12487	87.83449	299.98445	13.37350	0.1249103	0.23174614	2.6249903	21	4 6.7	18.3
29790 1999 CW_{64}	14.0	X	46.90824	56.13500	216.61446	13.09511	0.1484096	0.23973181	2.5663681	21	9 12.4	17.4
29791 1999 CC_{65}	13.7	X	283.65324	61.52274	281.26175	11.97239	0.1889751	0.23637462	2.5906107	21	5 11.1	17.5
29792 1999 CG_{65}	13.8	X	151.08755	279.83548	189.39371	9.73124	0.0646056	0.19115257	2.9845759	21	6 10.9	18.4
29793 1999 CH_{65}	13.4	X	259.43453	329.55164	234.19666	6.50053	0.0919702	0.21436780	2.7650077	21	—	—
29794 1999 CC_{67}	13.5	X	152.16044	236.69154	272.65452	11.00086	0.0800724	0.23908761	2.5709759	21	7 31.9	17.4
29795 1999 CL_{71}	13.8	X	269.41419	277.19198	288.47333	3.50043	0.0996432	0.21525875	2.7573729	21	—	—
29796 1999 CW_{77}	13.9	X	90.21906	299.58199	207.96244	7.86934	0.0751050	0.27478688	2.3431786	21	5 13.2	16.7
29797 1999 CC_{78}	13.7	X	2.12919	150.82830	176.40728	13.99129	0.1897499	0.24147928	2.5539720	21	9 21.5	16.0
29798 1999 CP_{79}	13.4	X	321.14245	85.97489	166.87139	12.69412	0.1348995	0.22582256	2.6706963	21	3 15.0	16.8
29799 Trinirussell	14.3	X	52.12850	53.87886	187.88725	9.83536	0.0353099	0.19141433	2.9818543	21	7 21.8	18.5
29800 Valeriesarge	14.6	X	280.24308	17.38866	343.39564	6.93163	0.1434820	0.28449559	2.2895617	21	6 6.8	17.5
29801 1999 CX_{84}	14.0	X	277.58976	119.56875	86.11869	9.55532	0.1753212	0.26092448	2.4254528	21	—	—
29802 Rikhavshah	14.9	X	2.00012	351.04324	131.83189	6.77148	0.0358358	0.21929002	2.7234755	21	—	—
29803 Michaelshao	15.6	X	174.33896	315.29700	135.41143	1.32535	0.1307598	0.23725404	2.5842051	21	6 13.5	19.7
29804 Idansharon	14.9	X	135.94719	25.88839	330.30959	2.04518	0.1786569	0.26484117	2.4014804	21	1 5.0	18.1
29805 Bradleysloop	15.1	X	191.04186	117.68059	326.95513	5.21762	0.1212692	0.28191188	2.3035296	21	6 22.1	18.5
29806 Eviesobczak	15.2	X	243.83282	2.20577	66.82550	3.58302	0.1674490	0.28606787	2.2811648	21	7 25.9	18.2
29807 1999 CR_{99}	13.8	X	329.80491	98.83882	56.76443	3.08223	0.0651182	0.21654251	2.7464642	21	—	—
29808 Youssoliman	15.2	X	182.37260	139.00946	333.35941	3.58228	0.1411557	0.23833032	2.5764191	21	7 20.2	19.2
29809 1999 CQ_{103}	14.4	X	246.07750	14.75094	201.94150	9.18750	0.1280020	0.21482378	2.7610937	21	—	—
29810 1999 CF_{106}	14.7	X	284.51439	241.18696	158.11174	13.66018	0.2321650	0.24589503	2.5233038	21	7 23.6	18.1
29811 1999 CK_{109}	14.3	X	23.52283	273.62764	227.16690	10.55629	0.1459971	0.22286011	2.6943116	21	1 20.3	17.4
29812 Aaronsolomon	14.9	X	120.59921	134.67484	234.32280	5.54626	0.1929367	0.26418307	2.4054670	21	1 3.4	17.8
29813 1999 CF_{111}	14.1	X	333.48375	230.89019	253.56388	2.91884	0.0319536	0.21445821	2.7642306	21	—	—
29814 1999 CU_{111}	13.7	X	77.68756	300.81563	205.10509	8.51806	0.1156847	0.18555966	3.0442501	21	5 6.7	17.7
29815 1999 CG_{112}	14.3	X	161.52688	81.32895	194.78615	16.65426	0.1552573	0.20962835	2.8065279	21	—	—
29816 1999 CS_{113}	14.0	X	226.92960	186.38240	226.38205	9.13702	0.0013405	0.19182657	2.9775807	21	6 29.6	18.2
29817 1999 CG_{117}	14.6	X	39.97896	269.58127	172.81500	11.80846	0.1748960	0.26269276	2.4145561	21	—	—
29818 Aryosorayya	14.7	X	214.60203	269.59435	213.38638	6.67563	0.1604009	0.28719086	2.2752143	21	9 2.6	18.2
29819 1999 CD_{128}	12.5	X	307.04541	121.63659	80.52325	14.31639	0.0812748	0.17366651	3.1816958	21	1 9.9	17.0
29820 1999 CW_{149}	14.2	X	235.19522	271.65296	55.79055	0.08312	0.1723994	0.17898399	3.1183625	21	3 13.5	19.3
29821 1999 DP_{1}	13.2	X	81.54771	172.45251	57.97650	14.59676	0.1273636	0.23762329	2.5815273	21	9 11.8	17.0
29822 1999 DS_{2}	14.0	X	301.15682	183.42665	343.75789	9.29206	0.1525233	0.21391384	2.7689182	21	—	—
29823 1999 DS_{3}	13.8	X	39.68389	123.65734	70.40324	11.19499	0.1588544	0.22766959	2.6562322	21	5 14.3	16.6
29824 Kalmančok	14.8	X	334.68840	80.09799	111.05362	2.49339	0.1551589	0.17458057	3.1705805	21	1 21.3	18.9
29825 Dunyazade	15.3	X	230.46718	301.73649	95.63800	1.09798	0.1431630	0.23653638	2.5894295	21	5 31.6	19.2
29826 1999 DW_{6}	13.7	X	140.27589	86.27244	343.59105	9.40032	0.2127794	0.27076050	2.3663511	21	4 13.7	17.4
29827 1999 DQ_{7}	14.9	X	62.24194	18.22183	118.16687	5.69149	0.1043073	0.22545876	2.6735684	21	3 27.6	18.1
29828 1999 DU_{8}	15.4	X	228.74005	267.41919	139.09156	8.17358	0.1650188	0.28286986	2.2983258	21	6 8.9	18.9
29829 Engels	13.5	X	163.16132	336.72614	172.81737	12.42499	0.1905740	0.23789337	2.5795730	21	8 16.3	17.8
29830 1999 ER_{4}	13.4	X	142.63341	139.10775	197.16722	5.32447	0.1200800	0.21261819	2.7801556	21	—	—
29831 1999 EV_{4}	13.7	X	303.28654	84.74423	181.63426	12.13271	0.0371473	0.22348523	2.6892850	21	3 22.9	17.3
29832 Steinwehr	14.8	X	117.52521	60.25744	90.88673	5.13679	0.1098046	0.23332228	2.6131554	21	6 29.9	18.5
29833 1999 FJ	14.5	X	4.92308	294.64706	216.59970	1.68738	0.0949729	0.21815533	2.7329111	21	1 11.6	17.8
29834 Mariacallas	13.8	X	290.99567	64.71075	18.28644	2.01708	0.0422256	0.19895405	2.9060351	21	10 26.2	17.6
29835 1999 FW_{1}	14.8	X	221.61764	43.33718	180.40479	2.86798	0.0562680	0.25414306	2.4684095	21	—	—
29836 1999 FB_{4}	15.1	X	145.72484	169.68182	152.92610	4.96737	0.0998641	0.21514554	2.7583401	21	—	—
29837 Savage	14.1	X	323.45636	304.25778	13.75646	10.37967	0.1056251	0.18937479	3.0032255	21	6 21.8	18.1
29838 1999 FA_{7}	14.1	X	10.14368	159.49786	36.72551	1.49053	0.1010746	0.17756421	3.1349631	21	3 28.2	17.8
29839 1999 FA_{9}	14.0	X	356.25379	168.27254	59.29473	2.29550	0.1468893	0.18085370	3.0968329	21	4 12.8	17.6
29840 1999 FV_{12}	14.0	X	236.99415	96.39688	23.83446	4.79409	0.2546272	0.19956400	2.9001107	21	9 10.7	18.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
29841 1999 FO_{14}	15.0	X	182.65442	38.57094	24.05466	2.20667	0.0664932	0.22796106	2.6539675	21	5 15.4	18.9
29842 1999 FE_{18}	13.6	X	199.60715	58.33135	164.66066	12.72865	0.1885631	0.20333904	2.8641045	21	12 13.7	18.4
29843 1999 FJ_{19}	13.3	X	271.19904	95.48638	179.41603	13.32507	0.1692937	0.17251020	3.1958976	21	2 12.2	18.4
29844 1999 FM_{19}	13.7	X	247.58404	88.54054	141.00246	3.17762	0.0684959	0.21130346	2.7916758	21	—	—
29845 Wykrota	14.2	X	29.79439	124.32872	24.08131	13.85604	0.1564304	0.26373052	2.4082180	21	2 10.9	16.7
29846 1999 FT_{23}	13.5	X	206.17242	121.05651	214.78361	7.86730	0.0369613	0.22303181	2.6929286	21	2 18.1	17.4
29847 1999 FC_{24}	14.6	X	347.34133	325.95175	208.80789	2.37555	0.2077045	0.22016542	2.7162515	21	—	—
29848 1999 FL_{24}	13.6	X	5.96416	260.97442	294.57123	3.94969	0.1041533	0.17790612	3.1309451	21	3 18.0	17.4
29849 1999 FJ_{25}	14.0	X	123.51006	59.55984	45.93159	9.97409	0.0396688	0.18249212	3.0782695	21	5 2.3	18.4
29850 Tanakagyou	14.4	X	319.27617	316.45718	25.60103	2.43167	0.0158339	0.23460770	2.6036017	21	7 30.0	17.7
29851 1999 FW_{25}	13.3	X	25.00794	159.08540	210.83847	1.41427	0.0792837	0.20196218	2.8771070	21	12 6.4	17.0
29852 Niralithakor	14.4	X	347.80427	175.58180	320.59747	3.96351	0.0997769	0.21398865	2.7682729	21	—	—
29853 1999 FZ_{26}	13.3	X	67.87672	77.02709	137.54053	7.20719	0.0476229	0.18780949	3.0198894	21	7 10.8	17.4
29854 1999 FK_{27}	13.6	X	164.57576	43.73332	25.94401	13.19537	0.1201338	0.22817950	2.6522735	21	5 4.9	17.8
29855 1999 FN_{27}	13.5	X	7.57518	6.08472	160.22418	5.95123	0.0820800	0.21948779	2.7218392	21	2 4.7	16.9
29856 1999 FA_{28}	13.7	X	300.60157	4.81044	213.63185	6.74274	0.0863676	0.21657746	2.7461687	21	1 10.7	17.6
29857 1999 FS_{28}	13.9	X	169.61020	78.32812	169.57342	2.10027	0.0237932	0.20432785	2.8548568	21	12 23.3	17.8
29858 Tlomak	13.9	X	265.43916	68.27257	140.29953	4.29536	0.0352408	0.21110977	2.7933831	21	—	—
29859 1999 FW_{31}	13.9	X	56.54060	298.36950	214.94790	11.47219	0.2100148	0.22487077	2.6782270	21	4 22.3	16.6
29860 1999 FO_{34}	13.9	X	72.78603	19.39442	155.78238	4.80335	0.0965436	0.18380994	3.0635389	21	6 4.2	18.1
29861 1999 FV_{36}	12.6	X	56.74453	220.25025	221.23460	16.70278	0.1425604	0.17156915	3.2075733	21	1 14.4	16.9
29862 Savannahjoy	14.8	X	294.73255	300.01069	223.86191	6.18737	0.1159214	0.25697570	2.4502365	21	—	—
29863 1999 FC_{43}	13.1	X	76.66775	347.94561	149.65396	8.56466	0.1229441	0.22755434	2.6571290	21	4 23.6	16.5
29864 1999 FM_{44}	14.1	X	8.20185	60.26259	175.37212	11.63527	0.1414543	0.22837891	2.6507293	21	5 13.3	17.0
29865 1999 FL_{45}	12.9	X	69.41790	80.32610	338.21669	13.37512	0.1299128	0.17346195	3.1841968	21	1 10.9	17.1
29866 1999 FR_{46}	13.7	X	218.01751	30.57267	71.85517	2.87493	0.0296230	0.19452731	2.9499569	21	8 21.4	17.9
29867 1999 FA_{55}	13.6	X	102.57673	317.49112	189.72123	12.07284	0.1376055	0.23129865	2.6283750	21	6 10.8	17.5
29868 1999 FB_{56}	14.2	X	117.16231	88.76261	156.41589	14.66045	0.0972465	0.24317050	2.5421166	21	11 3.4	18.2
29869 Chiarabarbara	13.0	X	280.87838	299.94647	14.57238	15.56983	0.0381955	0.18253469	3.0777909	21	4 25.5	17.5
29870 1999 GV_{4}	13.0	X	58.23651	263.33050	195.16365	8.40348	0.1726896	0.21745339	2.7387892	21	1 31.4	16.0
29871 1999 GE_{5}	13.4	X	105.99083	263.47394	126.77500	9.80390	0.1727688	0.21470208	2.7621370	21	1 20.4	16.9
29872 1999 GO_{6}	14.3	X	108.80714	119.08618	6.73631	3.94265	0.1471167	0.22605206	2.6688883	21	5 20.8	18.1
29873 1999 GG_{9}	14.7	X	237.45769	64.25764	74.08884	4.55108	0.1090531	0.24336220	2.5407814	21	10 25.8	18.0
29874 Rogerculver	14.6	X	155.81612	4.95872	158.51918	8.06992	0.1356495	0.23662478	2.5887845	21	8 27.9	18.6
29875 1999 GY_{14}	14.3	X	92.04856	334.05252	136.80635	0.57111	0.1354822	0.17918326	3.1160501	21	4 13.9	18.6
29876 1999 GR_{16}	13.1	X	223.67943	238.51260	183.30452	10.22413	0.0341215	0.19012608	2.9953087	21	7 3.9	17.6
29877 1999 GL_{17}	12.9	X	256.23288	262.80396	111.86658	13.17824	0.1236176	0.23203883	2.6227825	21	6 3.7	16.9
29878 1999 GY_{19}	13.8	X	116.14494	258.19161	193.50098	11.27115	0.1446841	0.22396575	2.6854370	21	4 16.6	17.5
29879 1999 GO_{21}	12.8	X	200.27098	59.30553	49.03647	11.28137	0.0576476	0.18967106	3.0000973	21	8 8.4	17.4
29880 Andytran	14.2	X	275.24831	152.28011	159.19931	1.87776	0.1522145	0.17924657	3.1153163	21	4 4.3	18.9
29881 Tschopp	14.3	X	267.03715	214.78912	64.63378	2.19208	0.1343054	0.17344209	3.1844399	21	2 19.8	19.1
29882 1999 GU_{30}	14.5	X	120.66393	283.84319	177.03176	12.23434	0.1228174	0.22595559	2.6696479	21	5 2.6	18.4
29883 1999 GB_{31}	13.2	X	197.31041	237.79285	180.88631	11.00985	0.0110973	0.18403762	3.0610116	21	6 1.2	17.7
29884 1999 GF_{31}	13.8	X	51.48638	175.03928	189.74765	6.34895	0.1141437	0.24742058	2.5129210	21	—	—
29885 1999 GN_{31}	14.1	X	75.91092	168.89298	65.09690	2.22899	0.0171761	0.18983969	2.9983204	21	8 12.7	18.3
29886 Randytung	15.0	X	19.39042	315.06910	164.35470	2.69291	0.1479344	0.26001453	2.4311083	21	—	—
29887 1999 GN_{34}	13.5	X	77.11776	66.16317	256.26843	1.19162	0.1237003	0.20207611	2.8760255	21	12 17.5	17.7
29888 1999 GJ_{36}	13.9	X	193.27462	241.06037	225.04100	7.79149	0.0378844	0.18944261	3.0025087	21	7 22.7	18.4
29889 1999 GN_{36}	14.1	X	129.24470	355.05358	223.21280	11.61606	0.0769257	0.24065430	2.5598055	21	10 4.9	17.9
29890 1999 GH_{37}	13.3	X	288.74949	232.00854	32.41046	15.25344	0.1997564	0.17572660	3.1567805	21	2 23.1	18.3
29891 1999 GQ_{37}	13.0	X	334.48087	103.38886	85.81543	10.40778	0.0459846	0.17484357	3.1674002	21	2 3.7	17.4
29892 1999 GS_{37}	13.7	X	321.76633	214.86565	154.04683	9.49711	0.0693085	0.23955277	2.5676466	21	9 5.3	16.5
29893 1999 GW_{37}	14.2	X	125.74179	22.02183	46.32994	13.95820	0.1624552	0.22517229	2.6758355	21	4 4.4	18.2
29894 1999 GD_{39}	13.6	X	125.37517	347.88839	126.42615	8.87965	0.0843977	0.18480584	3.0525228	21	5 23.0	18.2
29895 1999 GP_{53}	12.8	X	263.06165	116.34912	230.83286	13.52528	0.0391934	0.18273140	3.0755816	21	5 18.5	17.0
29896 1999 GN_{58}	13.9	X	0.01194	214.14599	13.08418	11.81991	0.1107614	0.22407608	2.6845555	21	4 12.8	16.9
29897 1999 GM_{61}	13.8	X	228.25757	230.89833	42.92407	4.15641	0.0374665	0.16983064	3.2294260	21	1 12.1	18.6
29898 1999 HG_{1}	13.0	X	252.47952	258.61204	16.52179	8.12841	0.0245858	0.17012071	3.2257541	21	2 12.8	17.7
29899 1999 HU_{1}	14.2	X	137.02501	264.45540	136.22936	4.77133	0.0901838	0.21935759	2.7229162	21	2 28.7	18.0
29900 1999 HP_{5}	13.8	X	21.91959	92.83167	207.49611	10.55819	0.1025844	0.19039615	2.9924756	21	8 31.1	17.7
29901 1999 HS_{7}	14.1	X	328.27610	96.17275	43.27399	4.00898	0.1256977	0.25462331	2.4653047	21	—	—
29902 1999 HM_{8}	13.7	X	56.42566	343.23838	199.35453	11.59461	0.1563440	0.22788048	2.6545931	21	5 27.6	16.8
29903 1999 HP_{9}	13.0	X	3.81011	209.91327	213.26869	8.64972	0.1196547	0.20595816	2.8397714	21	—	—
29904 1999 HL_{10}	13.7	X	254.18215	89.59171	210.42655	15.52691	0.0485114	0.17505417	3.1648593	21	3 6.1	18.6
29905 Kunitaka	13.3	X	38.32117	2.25731	207.03956	17.69270	0.1653379	0.22534855	2.6744401	21	6 3.1	16.4
29906 1999 HF_{12}	14.4	X	83.01098	121.78710	204.01476	11.70273	0.0717412	0.20136562	2.8827866	21	12 21.5	18.8
29907 1999 JD	14.0	X	129.78857	183.09683	43.41697	13.56994	0.1030102	0.24263114	2.5458825	21	10 22.5	17.9
29908 1999 JP_{3}	13.2	X	54.39734	317.63535	268.16961	13.56602	0.0702997	0.23076073	2.6324580	21	7 9.3	16.5
29909 1999 JE_{8}	14.2	X	64.13689	292.35240	203.62511	22.76671	0.2564498	0.26671973	2.3901911	21	4 12.7	16.1
29910 Segre	13.7	X	254.03061	297.36820	89.75654	10.69442	0.1149839	0.18374343	3.0642780	21	6 17.5	18.1
29911 1999 JQ_{9}	14.1	X	87.96008	318.37681	140.63245	5.61959	0.0523690	0.22047776	2.7136855	21	3 7.7	17.5
29912 1999 JQ_{10}	13.7	X	96.56922	320.84288	171.85893	13.43677	0.1147416	0.22472361	2.6793961	21	5 13.9	17.5
29913 1999 JO_{12}	13.4	X	294.08273	271.45355	109.84153	11.48747	0.1390355	0.18895623	3.0076588	21	7 28.3	17.2
29914 1999 JH_{15}	13.2	X	8.18937	88.53546	115.97732	18.10749	0.1194151	0.17610463	3.1522612	21	4 13.2	17.4
29915 1999 JG_{18}	14.0	X	323.87432	135.54843	20.94700	8.83031	0.1771259	0.21283334	2.7782817	21	—	—
29916 1999 JP_{18}	15.1	X	218.33647	114.42145	5.40781	6.36248	0.2421960	0.24039496	2.5616462	21	8 28.1	19.3
29917 1999 JP_{19}	13.0	X	254.35963	24.62385	16.52390	10.41626	0.1282487	0.18779760	3.0200168	21	7 5.1	17.6
29918 1999 JV_{20}	12.9	X	91.13077	79.07349	48.42819	2.28790	0.1450098	0.18020777	3.1042287	21	5 4.9	17.3
29919 1999 JD_{23}	13.0	X	30.25630	249.19046	43.71032	10.61957	0.0866347	0.18982992	2.9984232	21	9 10.5	17.0
29920 1999 JB_{26}	13.6	X	346.35826	92.26780	216.23249	9.61759	0.0647600	0.18633353	3.0358155	21	7 16.1	17.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
29921 1999 JE_{26}	14.3	X	118.86905	313.59195	217.14987	14.32376	0.0705036	0.23150387	2.6268214	21	7 19.1	18.3
29922 1999 JZ_{27}	12.8	X	204.19418	258.00653	80.48648	3.31585	0.0439532	0.17236120	3.1977392	21	3 3.1	17.5
29923 1999 JE_{28}	13.9	X	65.70767	181.39849	186.03993	1.54710	0.0550708	0.20345841	2.8629842	21	—	—
29924 1999 JN_{28}	13.4	X	294.89236	151.14704	227.12348	9.97522	0.1407578	0.18824695	3.0152090	21	7 21.5	17.6
29925 1999 JV_{28}	13.2	X	294.77915	354.09371	31.98191	11.22334	0.1000502	0.18922692	3.0047899	21	8 15.3	17.3
29926 1999 JW_{32}	13.0	X	321.96122	293.56301	58.96858	10.14019	0.0869665	0.18792837	3.0186156	21	8 11.8	17.0
29927 1999 JE_{35}	14.0	X	333.23670	315.88540	229.89531	2.08145	0.0547281	0.21458086	2.7631772	21	1 16.8	17.5
29928 1999 JX_{35}	13.5	X	225.34959	253.60692	201.57339	10.55090	0.0867103	0.18986414	2.9980630	21	8 10.2	18.2
29929 1999 JR_{39}	13.2	X	233.94038	313.66317	42.20694	6.86912	0.1501408	0.17696879	3.1419910	21	4 17.2	18.1
29930 1999 JT_{41}	13.8	X	202.66566	278.37047	168.82414	4.04958	0.0886604	0.23065195	2.6332856	21	7 8.9	17.7
29931 1999 JL_{44}	12.3	X	26.70341	292.33267	238.06245	14.69537	0.0584420	0.17437228	3.1731048	21	3 14.3	16.8
29932 1999 JB_{46}	13.6	X	354.05378	2.58965	213.73347	15.03386	0.0895031	0.17543840	3.1602366	21	3 27.0	17.7
29933 1999 JG_{46}	13.7	X	352.80288	146.70069	203.69391	10.83978	0.0304780	0.19117231	2.9843704	21	9 19.8	17.8
29934 1999 JL_{46}	13.3	X	254.18835	274.66812	200.11136	7.79996	0.2941103	0.19882906	2.9072528	21	9 12.7	17.9
29935 1999 JH_{48}	14.5	X	203.51040	224.89452	261.08280	12.05089	0.2059370	0.23655799	2.5892718	21	8 17.6	19.0
29936 1999 JD_{49}	12.7	X	65.66733	234.62575	235.81421	20.70812	0.0367876	0.17121619	3.2119800	21	2 16.9	17.6
29937 1999 JB_{50}	13.7	X	0.33179	58.52987	76.49221	10.36554	0.1023455	0.21188341	2.7865793	21	—	—
29938 1999 JR_{52}	13.8	X	303.86816	331.42635	185.07937	1.76105	0.0211006	0.20621079	2.8374516	21	—	—
29939 1999 JS_{52}	13.7	X	19.65798	330.31049	224.32275	8.63157	0.0421426	0.17570224	3.1570722	21	4 7.8	17.9
29940 1999 JK_{73}	13.9	X	126.66804	20.65351	191.54233	10.28116	0.0435891	0.19177544	2.9781099	21	9 18.4	18.2
29941 1999 JB_{76}	13.8	X	41.23620	169.03195	20.73542	1.58992	0.0749978	0.17994231	3.1072810	21	5 5.1	17.9
29942 1999 JJ_{77}	13.1	X	49.23202	102.16131	186.13807	9.83850	0.0507189	0.19035119	2.9929467	21	9 20.1	17.2
29943 1999 JZ_{78}	10.9	X	85.80470	26.32618	90.73047	19.65155	0.1547412	0.17881626	3.1203121	21	4 26.1	15.5
29944 1999 JF_{80}	12.4	X	259.82603	167.19087	114.18041	13.62950	0.1793568	0.12540879	3.9529143	21	2 18.6	18.5
29945 1999 JU_{83}	12.3	X	117.89156	292.11853	184.37992	23.22367	0.1106270	0.17945937	3.1128531	21	5 20.5	17.2
29946 1999 JZ_{83}	13.3	X	274.35835	184.83133	111.20906	10.58795	0.0506386	0.17438130	3.1729954	21	4 2.5	18.0
29947 1999 JD_{84}	13.5	X	128.30946	31.04322	120.61107	18.12636	0.1320686	0.23010612	2.6374482	21	7 15.1	17.4
29948 1999 JS_{84}	12.8	X	60.37593	51.48400	108.49313	17.34838	0.0588410	0.17543144	3.1603203	21	5 1.1	17.4
29949 1999 JM_{85}	13.2	X	2.76056	242.82016	101.52410	11.69828	0.0743811	0.19113179	2.9847922	21	10 6.5	17.2
29950 Uppili	15.0	X	18.01286	349.85044	113.79952	3.52198	0.1587211	0.25777579	2.4451638	21	—	—
29951 1999 JH_{86}	13.1	X	208.43024	177.86593	177.15213	21.27333	0.0363496	0.17656830	3.1467403	21	3 26.4	17.8
29952 Varghese	14.5	X	202.33893	346.74667	143.67919	8.75401	0.1428353	0.23869572	2.5737891	21	9 1.6	18.5
29953 1999 JW_{86}	13.4	X	305.11351	252.24581	107.80170	10.85295	0.1556977	0.18836142	3.0139873	21	7 13.2	17.2
29954 1999 JK_{89}	13.4	X	276.84741	162.62263	179.44267	9.00109	0.0628805	0.18195759	3.0842952	21	5 27.2	17.8
29955 1999 JE_{90}	13.9	X	64.14415	76.40764	116.27397	10.89917	0.0394523	0.18251546	3.0780070	21	6 7.9	18.2
29956 1999 JF_{91}	13.1	X	231.28392	176.12024	145.40689	14.91561	0.1223968	0.17251085	3.1958896	21	3 8.2	18.1
29957 1999 JR_{91}	13.0	X	240.69070	276.29179	150.34935	10.60516	0.1035852	0.18818013	3.0159227	21	7 22.8	17.6
29958 1999 JY_{91}	14.0	X	105.05150	22.18649	137.86185	7.58233	0.1235100	0.18388614	3.0626924	21	6 28.9	18.5
29959 Senevelling	14.1	X	17.41352	273.36358	150.87043	9.63084	0.1234497	0.20521339	2.8466381	21	—	—
29960 1999 JU_{92}	14.0	X	300.06813	238.81162	139.05728	10.78754	0.1172747	0.18806484	3.0171552	21	8 3.9	18.0
29961 1999 JB_{99}	13.4	X	189.83764	307.64635	138.12931	17.40754	0.1904300	0.18397682	3.0616860	21	6 23.9	18.8
29962 1999 JA_{100}	13.1	X	82.05630	356.33661	114.35596	12.55799	0.0807293	0.17253766	3.1955585	21	3 30.3	17.7
29963 1999 JH_{100}	13.4	X	220.80013	126.80898	190.96219	21.30078	0.0145601	0.16966694	3.2315031	21	2 21.2	18.3
29964 1999 JO_{100}	13.6	X	82.42150	37.63559	121.40761	12.17786	0.1364472	0.17931751	3.1144946	21	6 4.0	18.1
29965 1999 JX_{102}	13.9	X	83.03970	29.04622	94.33400	6.15445	0.1136588	0.17733278	3.1376900	21	4 17.7	18.2
29966 1999 JW_{103}	13.4	X	60.25494	109.95826	163.78379	11.24484	0.0610734	0.14641666	3.5651329	21	9 14.6	18.2
29967 1999 JN_{104}	14.0	X	15.65575	339.16137	157.75111	12.87577	0.0857091	0.21629153	2.7485884	21	1 10.0	17.5
29968 1999 JE_{106}	14.0	X	33.01432	103.01072	195.26044	10.32596	0.0731791	0.19126754	2.9833797	21	9 12.4	18.0
29969 Amyvitha	14.3	X	14.90440	323.18238	118.31254	2.92210	0.0178077	0.20616992	2.8378265	21	—	—
29970 1999 KQ	14.1	X	45.04323	312.76467	185.95925	11.88137	0.1233689	0.21903849	2.7255601	21	2 27.9	17.2
29971 1999 KT	15.6	X	81.04555	138.89855	165.95890	7.15210	0.1800212	0.28426087	2.2908219	21	12 19.8	19.1
29972 Chriswan	14.0	X	102.55494	278.50292	222.81203	8.26373	0.0427345	0.17910346	3.1169755	21	5 22.5	18.4
29973 1999 LP_{7}	13.7	X	242.68865	107.89029	181.36293	2.80271	0.1673372	0.12381713	3.9867183	21	2 10.6	19.9
29974 1999 LV_{8}	14.0	X	53.00556	0.59335	120.12441	10.42420	0.0902835	0.21550474	2.7552742	21	2 19.4	17.3
29975 1999 LQ_{32}	13.7	X	97.26975	243.84788	276.17472	7.76722	0.1446273	0.22888138	2.6468484	21	6 21.9	17.3
29976 1999 NE_{9}	11.0	X	210.51115	106.33277	318.89148	30.08207	0.0090616	0.08408863	5.1599388	21	7 2.9	18.1
29977 1999 NH_{11}	11.2	X	327.12863	156.18647	133.96890	23.98218	0.0893827	0.08254175	5.2242055	21	6 3.7	18.1
29978 Arthurwang	14.9	X	92.32311	329.56543	323.22207	2.84768	0.1682121	0.28097193	2.3086642	21	12 13.6	18.3
29979 Wastyk	15.3	X	48.16327	168.90611	24.82968	6.23223	0.0644548	0.25771026	2.4455783	21	5 12.4	18.1
29980 Dougsimons	14.8	X	186.17418	72.04645	255.96826	3.73952	0.2083977	0.29113022	2.2546434	21	1 18.4	18.2
29981 1999 TD_{10}	8.7	X	8.19869	172.51355	184.53088	5.96352	0.8736004	0.00103615	96.7208482	21	1 6.6	23.8
29982 Sarahwu	15.4	X	17.16715	172.89683	8.23540	6.12935	0.0305056	0.29459573	2.2369267	21	3 2.3	17.8
29983 Amyxu	14.1	X	262.86967	121.02707	15.86387	1.30636	0.1071001	0.18096570	3.0955551	21	11 13.7	18.2
29984 Zefferer	15.4	X	253.09280	254.39205	283.08987	2.41397	0.0610274	0.23080320	2.6321350	21	—	—
29985 1999 VX_{153}	13.7	X	44.66975	103.29672	116.61239	18.14097	0.2244816	0.24049852	2.5609107	21	7 10.7	16.3
29986 Shunsuke	15.5	X	241.51299	134.98958	75.89505	6.12166	0.1137154	0.27508065	2.3415100	21	—	—
29987 Lazhang	15.3	X	304.30233	228.40090	54.38930	6.01336	0.1191077	0.29549843	2.2323687	21	3 26.7	18.0
29988 Davidezilli	14.4	X	52.43710	305.41454	278.94609	3.55452	0.1873075	0.29818642	2.2189328	21	7 26.2	16.3
29989 1999 XS_{204}	13.5	X	236.48707	246.50004	38.95466	12.11837	0.2330023	0.23590647	2.5940369	21	1 18.8	18.2
29990 1999 XR_{208}	14.0	X	284.57188	201.70082	36.48499	11.51322	0.1448116	0.18978948	2.9988491	21	1 18.4	18.7
29991 Dazimmerman	14.8	X	192.86260	336.70712	10.59076	2.05449	0.0322722	0.19225592	2.9731460	21	2 25.1	18.9
29992 Yasminezubi	14.9	X	73.31320	212.24454	99.65561	4.79559	0.0952596	0.21942126	2.7223894	21	11 30.8	18.8
29993 2000 AD_{55}	13.4	X	131.85877	181.69883	94.78730	2.54001	0.1610233	0.17347882	3.1839903	21	12 13.9	18.5
29994 Zuoyu	14.3	X	212.69895	309.79771	322.97943	6.43154	0.1186639	0.27416842	2.3467010	21	—	—
29995 Arshavsky	15.4	X	148.30453	177.02718	30.01991	5.06092	0.1321077	0.30075790	2.2062668	21	10 21.3	18.7
29996 2000 AQ_{97}	15.7	X	310.80274	248.76359	331.36966	19.05652	0.0538003	0.37013856	1.9211436	21	—	—
29997 2000 AE_{127}	14.8	X	248.99176	122.25883	145.76628	10.48208	0.2265649	0.27619976	2.3351809	21	—	—
29998 2000 AG_{137}	15.4	X	225.67534	235.95066	17.00479	2.86044	0.1174930	0.31505034	2.1390261	21	—	—
29999 2000 AT_{137}	13.8	X	329.44741	221.13698	339.20401	11.93814	0.1389618	0.22991645	2.6388985	21	1 17.9	17.3
30000 Camenzind	14.6	X	33.61188	226.21612	11.63260	6.57636	0.0798344	0.28872501	2.2671475	21	6 25.7	16.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
30001 2000 AU_{195}	13.4	X	307.81062	64.75860	150.72351	14.01253	0.1174375	0.23295176	2.6159256	21	1 8.7	17.2
30002 2000 AP_{233}	15.7	X	246.48329	25.94046	131.60832	2.78056	0.0708188	0.30900320	2.1668428	21	12 20.8	18.0
30003 2000 AO_{236}	14.2	X	285.92464	343.03648	249.77337	5.88217	0.3261886	0.22711450	2.6605585	21	—	—
30004 Mikewilliams	15.7	X	183.49606	148.33789	115.27264	3.45588	0.1679055	0.26796347	2.3827894	21	—	—
30005 Stevenchen	16.1	X	296.43811	12.92034	193.70302	3.67956	0.1865191	0.27434946	2.3456685	21	—	—
30006 2000 CB_{30}	13.5	X	0.47046	112.12210	149.40668	2.45634	0.0413214	0.19841499	2.9112962	21	6 7.1	17.2
30007 Johnclarke	15.9	X	67.69335	42.21076	236.20202	3.75662	0.1801646	0.29982483	2.2108417	21	11 3.4	18.6
30008 Aroncoraor	15.3	X	226.40644	58.80566	204.05822	1.92761	0.1843551	0.27099050	2.3650119	21	—	—
30009 2000 CQ_{50}	14.4	X	339.80415	99.16841	153.32335	15.57000	0.1386929	0.23880244	2.5730223	21	4 14.9	17.5
30010 2000 CJ_{56}	13.4	X	243.72381	278.52332	350.27656	11.93243	0.1926577	0.22771037	2.6559150	21	1 6.9	18.0
30011 2000 CM_{56}	15.6	X	114.12008	256.94227	26.28116	4.62636	0.1609955	0.30602440	2.1808812	21	12 25.9	18.9
30012 Sohamdaga	14.9	X	322.38434	236.10604	359.19840	7.23926	0.1394839	0.27764653	2.3270616	21	2 12.7	17.7
30013 2000 CV_{77}	15.8	X	199.01752	331.06868	309.87809	2.87573	0.2099629	0.26965780	2.3727978	21	—	—
30014 2000 CY_{80}	15.5	X	147.70561	82.77285	181.72272	3.86111	0.1733741	0.30599040	2.1810427	21	—	—
30015 2000 CX_{92}	15.2	X	162.16805	161.94918	83.30790	3.24188	0.1223270	0.30624670	2.1798257	21	12 25.2	18.1
30016 2000 CA_{95}	13.9	X	113.95620	213.91702	62.84454	3.45639	0.1521035	0.25465005	2.4651322	21	12 9.4	17.8
30017 Shaundatta	14.4	X	341.91217	102.26140	132.95987	1.10559	0.1678024	0.27911934	2.3188684	21	3 7.7	16.4
30018 2000 CX_{101}	14.9	X	107.81206	123.40954	143.21459	8.68874	0.2391176	0.25471945	2.4646844	21	11 28.2	19.2
30019 2000 DD	14.8	X	51.48459	272.06276	10.21637	21.74157	0.0957212	0.39362100	1.8439559	21	10 15.1	16.4
30020 2000 DZ_{5}	11.9	X	347.73718	328.68326	80.07504	16.65997	0.0480311	0.08124139	5.2798043	21	11 13.1	18.7
30021 2000 DP_{6}	15.7	X	111.73423	147.95967	118.96254	3.38108	0.1099142	0.30498264	2.1858447	21	12 1.2	18.8
30022 Kathibaker	16.0	X	263.63057	60.58141	149.70716	3.03194	0.1202973	0.26897947	2.3767853	21	—	—
30023 2000 DN_{16}	15.7	X	235.23513	50.34140	163.43553	2.94346	0.1315666	0.26417284	2.4055290	21	—	—
30024 Neildavey	15.7	X	21.26690	92.80350	167.59837	3.20125	0.1599715	0.29180537	2.2511643	21	7 16.5	17.3
30025 Benfreed	15.6	X	285.59881	138.44361	149.94819	5.53443	0.1658616	0.28333195	2.2958262	21	3 3.6	18.8
30026 2000 DS_{29}	15.2	X	304.79783	259.63981	24.77113	2.43262	0.1498894	0.28073152	2.3099820	21	3 24.4	18.0
30027 Anubhavguha	16.0	X	359.06875	95.99858	136.64578	1.96981	0.1331853	0.23876328	2.5733035	21	4 17.8	18.5
30028 Yushihomma	15.1	X	128.31183	157.21719	133.80891	2.08161	0.1735145	0.26239578	2.4163777	21	—	—
30029 Preetikakani	16.0	X	230.82514	262.20271	329.32450	3.91923	0.1967329	0.26667974	2.3904300	21	—	—
30030 Joycekang	16.2	X	175.15326	59.10653	163.00341	2.66267	0.1555386	0.25919165	2.4362511	21	11 29.9	20.0
30031 Angelakong	15.1	X	149.59459	12.84865	327.20400	6.61023	0.1701993	0.27220623	2.3579649	21	—	—
30032 Kuszmaul	16.4	X	263.82190	300.37227	245.95578	0.50060	0.1292268	0.26697723	2.3886539	21	—	—
30033 Kevinlee	16.2	X	15.04453	76.55226	169.97694	1.91189	0.0710382	0.28839827	2.2688596	21	6 4.8	18.5
30034 2000 DU_{76}	16.1	X	114.71256	50.82395	227.86270	1.21144	0.0827027	0.30514683	2.1850605	21	12 18.4	19.0
30035 Charlesliu	15.5	X	344.11567	73.65028	163.87088	4.53568	0.1443136	0.23613263	2.5923803	21	3 27.5	18.1
30036 Eshamaiti	16.0	X	198.15444	5.12789	216.24912	1.84498	0.1570347	0.26159226	2.4213233	21	12 21.3	19.6
30037 Rahulmehta	15.4	X	334.51262	241.17365	0.83549	4.52262	0.0907261	0.28203416	2.3028637	21	3 17.2	17.6
30038 2000 DM_{92}	15.7	X	18.53305	81.54361	124.01472	1.18560	0.1538749	0.28217185	2.3021145	21	4 6.7	17.2
30039 Jameier	16.3	X	212.49887	174.56993	69.51101	3.64708	0.1363190	0.26704704	2.3882376	21	—	—
30040 Annemerrill	15.5	X	282.82461	138.70873	147.15714	4.12115	0.1777027	0.27996687	2.3141861	21	2 24.1	18.9
30041 2000 EG_{3}	15.3	X	288.20761	102.09418	175.91234	13.61378	0.1095018	0.23462556	2.6034696	21	3 5.7	19.0
30042 Schmude	14.7	X	342.52037	198.21471	34.74775	5.74185	0.0945789	0.27825960	2.3236423	21	3 19.2	17.1
30043 Lisamichaels	15.9	X	207.45178	340.35527	266.73248	1.83337	0.1727813	0.26477618	2.4018734	21	—	—
30044 2000 EG_{19}	16.1	X	111.41316	185.00116	96.09481	2.74148	0.1634855	0.30454473	2.1879396	21	12 20.5	19.5
30045 2000 EC_{20}	15.5	X	276.52212	68.52157	190.88658	2.04840	0.1815086	0.27347636	2.3506584	21	1 15.4	19.2
30046 2000 EX_{24}	15.5	X	232.99023	103.55335	179.27503	0.47613	0.1946687	0.27116996	2.3639684	21	1 6.1	19.1
30047 2000 EV_{35}	14.1	X	236.27235	188.59457	128.38052	13.09308	0.1900786	0.22739855	2.6583425	21	2 26.3	18.5
30048 Sreyasmisra	15.7	X	244.78691	189.32701	4.04002	2.02580	0.1647728	0.26425461	2.4050328	21	—	—
30049 Violamocz	15.1	X	175.44849	204.29977	347.20763	4.94739	0.1782711	0.25507248	2.4624097	21	10 19.8	19.1
30050 Emilypang	15.2	X	297.38518	289.55388	10.14927	6.28498	0.1282263	0.28318394	2.2966261	21	4 6.7	17.8
30051 Jihopark	14.8	X	322.64363	86.70455	154.03374	3.56131	0.0994875	0.18583318	3.0412622	21	3 12.9	18.8
30052 2000 EW_{41}	14.7	X	168.16007	150.09979	168.42320	5.40871	0.2633012	0.26778760	2.3838325	21	—	—
30053 Ivanpaskov	16.4	X	314.39739	54.58885	206.55030	3.43272	0.0938642	0.28063864	2.3104917	21	3 12.6	19.1
30054 Pereira	15.4	X	72.24193	322.52705	296.35965	1.99108	0.1694714	0.29439818	2.2379272	21	10 10.4	18.3
30055 Ajaysaini	15.6	X	295.95290	163.61017	17.30166	2.52641	0.1410807	0.26889228	2.3772991	21	—	—
30056 2000 EP_{47}	15.1	X	78.54127	134.95530	179.35004	5.44561	0.2204387	0.30121670	2.2040259	21	—	—
30057 Sarasakowitz	15.2	X	159.50385	120.71332	150.07248	2.60116	0.1565113	0.26168096	2.4207762	21	—	—
30058 2000 EJ_{58}	14.9	X	180.79826	351.54338	321.30295	2.79070	0.2648939	0.26855231	2.3793050	21	1 3.5	18.9
30059 2000 ET_{59}	16.5	X	83.59336	113.46869	177.80872	2.43135	0.0589417	0.30215616	2.1994550	21	11 26.4	19.1
30060 Davidseong	16.3	X	225.49047	57.29154	184.29975	2.19284	0.1511028	0.26637870	2.3922307	21	—	—
30061 Vishnushankar	16.0	X	352.18834	102.78134	199.40022	1.85746	0.0901605	0.29101677	2.2552293	21	7 20.7	18.0
30062 2000 ER_{62}	15.0	X	91.22506	289.21457	9.29703	7.88185	0.2376822	0.25514044	2.4619724	21	12 20.5	19.2
30063 Jessicashi	16.0	X	3.46365	166.91256	141.85485	3.17182	0.1764880	0.29228101	2.2487214	21	8 31.7	17.5
30064 Kaitlynshin	15.9	X	357.55666	20.37963	196.52657	4.77390	0.1409152	0.23471519	2.6028067	21	3 21.0	18.6
30065 Asrinivasan	15.5	X	186.12527	168.20877	154.63273	4.86171	0.1492307	0.27185353	2.3600039	21	1 11.2	19.0
30066 Parthakker	15.5	X	225.96144	280.82349	10.59482	6.48707	0.1031545	0.27263513	2.3554913	21	1 11.5	19.0
30067 Natalieng	15.3	X	202.88960	353.35442	359.83648	7.35658	0.1439371	0.27825716	2.3236559	21	3 6.7	18.9
30068 Frankmelillo	14.1	X	115.19531	204.36963	113.34909	10.66876	0.1614503	0.21549487	2.7553583	21	—	—
30069 2000 EH_{74}	16.1	X	62.20513	119.81343	47.84582	7.46541	0.0368180	0.28271124	2.2991854	21	4 23.3	18.7
30070 Thabitpulak	15.6	X	81.15443	342.06458	205.83783	6.53014	0.1290623	0.29046176	2.2581012	21	7 5.4	18.3
30071 2000 EW_{92}	14.9	X	324.72928	31.11833	196.74405	13.98020	0.1077741	0.23253955	2.6190160	21	2 13.6	18.6
30072 2000 EP_{93}	13.2	X	160.60522	110.62411	216.96644	11.99047	0.1877524	0.22348193	2.6893115	21	1 2.7	17.6
30073 Erichen	14.9	X	333.41573	63.50504	236.08530	4.60674	0.1705317	0.28716997	2.2753246	21	5 30.5	16.7
30074 2000 EY_{96}	14.0	X	0.36804	215.86908	0.10481	13.10019	0.0780232	0.23344865	2.6122123	21	3 29.4	17.0
30075 2000 EC_{97}	14.2	X	307.47941	180.13188	13.12777	13.45394	0.1023862	0.22363824	2.6880582	21	—	—
30076 2000 EP_{97}	14.3	X	329.47864	46.34925	176.57175	3.60273	0.2757386	0.18157343	3.0886439	21	2 1.7	18.3
30077 2000 ES_{97}	13.6	X	358.43777	80.17160	209.24260	11.62069	0.2744857	0.19111017	2.9850173	21	7 8.3	16.3
30078 2000 EB_{104}	14.1	X	142.96621	337.37850	218.83845	15.70318	0.1950650	0.20329221	2.8645444	21	9 21.7	19.2
30079 2000 EP_{104}	15.1	X	294.66724	160.15663	0.22292	3.01320	0.1791114	0.26617015	2.3934801	21	—	—
30080 2000 EQ_{105}	14.9	X	282.66696	220.42790	44.73865	13.52619	0.1488738	0.22948680	2.6421912	21	2 14.5	19.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
30081 Zarinrahman	14.7	X	223.48571	272.66203	64.79916	5.38849	0.1599570	0.27690270	2.3312271	21	3 8.2	18.3
30082 2000 EE_{110}	14.7	X	324.14934	189.09544	82.04853	7.65377	0.1613759	0.28339452	2.2954883	21	4 4.8	17.3
30083 2000 EG_{110}	15.3	X	186.50279	198.68213	72.53059	7.59318	0.0957613	0.26653863	2.3912736	21	—	—
30084 2000 EV_{110}	15.6	X	202.21572	146.49727	61.03447	5.36835	0.0686985	0.26072356	2.4266987	21	12 17.9	18.8
30085 Kevingarbe	15.5	X	23.81093	230.83273	41.64598	3.24578	0.1309211	0.28917599	2.2647898	21	8 10.2	17.5
30086 2000 EU_{113}	14.2	X	223.49242	137.88052	31.74832	13.47975	0.1086070	0.25748709	2.4469912	21	11 16.4	17.6
30087 2000 EL_{122}	16.0	X	186.93828	346.80901	187.86342	5.43356	0.0840067	0.30287238	2.1959862	21	10 23.5	18.7
30088 2000 EK_{128}	15.0	X	80.25007	179.10917	126.02242	3.59025	0.1714907	0.25607009	2.4560101	21	12 14.0	18.6
30089 2000 EW_{128}	15.0	X	336.66890	203.38931	28.88087	5.74917	0.1986820	0.23344661	2.6122275	21	3 1.4	17.9
30090 2000 EL_{129}	14.8	X	283.72404	259.13259	54.17186	3.64064	0.1862062	0.23740271	2.5831260	21	4 6.6	18.4
30091 2000 EY_{130}	15.5	X	70.33367	166.95493	114.13664	2.00616	0.1460202	0.29837116	2.2180168	21	11 6.7	18.3
30092 2000 EB_{135}	15.3	X	220.16101	151.43555	96.06023	3.56607	0.1331307	0.26619876	2.3933086	21	—	—
30093 2000 ES_{135}	14.2	X	208.49400	283.51798	40.25805	13.21010	0.2820317	0.22648613	2.6654772	21	2 15.9	19.3
30094 Rolfebode	14.7	X	324.93809	284.06093	11.30827	6.43937	0.1693009	0.28633021	2.2797712	21	5 4.6	17.1
30095 Tarabode	15.1	X	231.11970	166.22465	41.37756	4.50098	0.0630421	0.30748971	2.1739472	21	—	—
30096 Glindadavidson	15.3	X	123.92029	98.15892	170.18186	2.61565	0.1627719	0.25519737	2.4616062	21	12 9.1	19.3
30097 Traino	14.8	X	220.26146	276.76193	16.91978	7.33740	0.1301930	0.27086739	2.3657285	21	1 9.1	18.5
30098 2000 EE_{151}	14.9	X	243.49484	168.13468	82.20961	3.09103	0.1810512	0.26828703	2.3808732	21	—	—
30099 2000 EG_{151}	14.2	X	277.80578	195.57507	71.42481	13.12607	0.2066706	0.22797011	2.6538973	21	2 3.4	18.6
30100 Christophergo	14.4	X	24.69814	179.97786	117.00918	16.39878	0.1812767	0.24481680	2.5307072	21	9 28.7	17.4
30101 2000 FA	15.4	X	158.82221	133.91227	163.54938	1.64112	0.1137969	0.30937241	2.1651184	21	—	—
30102 2000 FC_1	10.8	X	66.89955	282.56890	42.18660	23.70485	0.0420813	0.08173954	5.2583309	21	11 8.3	17.7
30103 2000 FY_2	16.2	X	250.60746	6.92284	233.25889	2.15080	0.1260790	0.27006191	2.3704301	21	—	—
30104 2000 FA_3	15.1	X	89.06536	319.96165	306.04329	3.41982	0.0952641	0.29837362	2.2180045	21	10 31.1	18.1
30105 2000 FO_3	14.3	X	118.14569	255.46827	62.03108	7.31752	0.3109752	0.30689193	2.1767693	21	—	—
30106 2000 FR_3	13.9	X	332.45886	228.58912	71.08604	9.80286	0.1782618	0.24105668	2.5569561	21	5 30.7	16.4
30107 2000 FT_{15}	15.0	X	219.18950	273.34027	28.72358	7.27177	0.1384058	0.27414324	2.3468447	21	1 18.6	18.7
30108 2000 FM_{16}	13.9	X	221.40177	273.99403	18.64963	15.59500	0.2194096	0.22526016	2.6751396	21	1 18.8	18.8
30109 Jaywilson	15.2	X	281.79886	274.65899	66.78387	7.75716	0.1448947	0.28712785	2.2755471	21	5 13.5	18.1
30110 Lisabreton	15.1	X	55.71135	242.20482	52.72886	8.48659	0.0910133	0.29826163	2.2185597	21	10 30.6	17.7
30111 Wendyslijk	15.1	X	249.45835	155.17690	109.13927	7.08469	0.0903573	0.27271336	2.3550408	21	—	—
30112 2000 FZ_{25}	14.0	X	237.54250	305.50446	30.01342	7.65093	0.1477574	0.27994701	2.3142956	21	3 18.9	17.5
30113 2000 FM_{26}	15.0	X	268.06355	87.18711	150.74955	4.87760	0.1127161	0.27111443	2.3642912	21	—	—
30114 2000 FY_{26}	15.9	X	162.44913	343.57021	142.91071	2.88250	0.0858559	0.29175317	2.2514328	21	7 17.0	18.8
30115 2000 FQ_{31}	14.4	X	221.87178	259.76369	49.65840	12.90128	0.2120450	0.27473931	2.3434490	21	2 1.7	18.6
30116 2000 FA_{36}	14.1	X	254.50594	150.82815	115.46640	12.49193	0.1261162	0.27258484	2.3557810	21	1 6.9	17.5
30117 Childress	15.2	X	342.49617	154.84353	149.99128	3.35232	0.1538776	0.28807121	2.2705765	21	7 1.1	16.9
30118 2000 FC_{37}	15.3	X	15.50355	272.99544	53.67230	5.40732	0.2083563	0.29472044	2.2362956	21	11 2.2	17.0
30119 Lucamatone	15.0	X	30.35668	79.47474	122.73048	5.92647	0.0713058	0.23683797	2.5872308	21	5 2.2	18.1
30120 2000 FZ_{38}	14.6	X	238.95046	101.62253	154.92808	5.33602	0.2003458	0.26789644	2.3831868	21	—	—
30121 2000 FF_{39}	15.6	X	124.89130	160.47698	129.79878	4.06129	0.0848534	0.30527784	2.1844353	21	—	—
30122 Elschweitzer	15.2	X	332.76229	170.10084	48.24831	7.22205	0.1189447	0.27690900	2.3311918	21	2 8.5	18.0
30123 Scottrippeon	15.0	X	66.34083	215.33314	113.42628	5.63216	0.1833336	0.30178371	2.2012643	21	—	—
30124 2000 FZ_{40}	14.8	X	60.95158	94.21245	75.83582	4.56861	0.0222799	0.28278903	2.2987637	21	4 23.7	17.5
30125 Mikekiser	14.7	X	242.10834	82.71777	158.24404	5.14703	0.0923934	0.26759641	2.3849678	21	—	—
30126 Haviland	15.2	X	339.49224	206.60501	64.31376	7.92645	0.0918076	0.28387398	2.2929029	21	5 8.8	17.4
30127 2000 FY_{41}	15.0	X	195.92728	166.59912	42.95875	5.95460	0.0730518	0.30510049	2.1852818	21	12 21.6	17.8
30128 Shannonbunch	15.7	X	204.32094	137.28233	40.73874	5.38271	0.1382961	0.25769062	2.4457026	21	11 4.5	19.1
30129 Virmani	15.7	X	358.37209	183.85888	63.90363	6.42839	0.0813857	0.28488560	2.2874716	21	5 7.6	17.8
30130 Jeandillman	15.2	X	358.05000	82.87667	79.32283	6.15731	0.1042137	0.27468092	2.3437811	21	—	—
30131 2000 FO_{46}	16.0	X	112.26668	313.15634	34.77152	5.22613	0.1035273	0.31178975	2.1539130	21	—	—
30132 2000 FP_{47}	13.6	X	224.76392	196.90445	115.44593	8.91578	0.1158617	0.18109192	3.0941165	21	2 18.7	18.5
30133 2000 FA_{48}	15.0	X	271.45337	207.52924	129.95654	10.52726	0.1977153	0.28287134	2.2983178	21	4 22.6	18.5
30134 2000 FR_{49}	13.9	X	151.11757	107.80653	356.38514	14.99222	0.0586618	0.23907485	2.5710673	21	5 28.7	17.8
30135 2000 FU_{49}	14.1	X	309.03946	88.31757	227.66404	12.18636	0.1834670	0.23680792	2.5874496	21	5 12.9	17.2
30136 Bakerfranke	15.3	X	254.90680	203.12089	100.89025	5.58767	0.1801582	0.23014312	2.6371655	21	2 27.3	19.5
30137 2000 FB_{63}	15.8	X	163.66847	356.61136	304.43951	1.99751	0.1263512	0.31165141	2.1545504	21	—	—
30138 2000 FN_{68}	16.8	X	306.22132	142.51568	215.60009	2.39510	0.0140369	0.29320387	2.2440004	21	8 3.6	19.4
30139 2000 GG_3	14.9	X	165.99554	296.98846	16.36477	23.47319	0.2304420	0.26496706	2.4007197	21	—	—
30140 Robpergolizzi	15.6	X	245.02856	292.08851	324.66222	5.16372	0.1615751	0.27056459	2.3674932	21	—	—
30141 Nelvenzon	15.5	X	164.98395	99.43769	207.47833	6.65648	0.1248563	0.26567574	2.3964486	21	—	—
30142 Debfrazier	15.7	X	230.76744	275.78714	25.20844	6.82801	0.1834377	0.27254206	2.3560275	21	1 28.4	19.6
30143 2000 GU_{29}	14.0	X	231.95298	320.01872	15.49880	12.87071	0.1854645	0.23111447	2.6297712	21	3 17.5	18.3
30144 Minubasu	16.2	X	118.17163	271.13234	172.20961	2.55470	0.0671046	0.27985816	2.3147854	21	3 20.1	18.8
30145 2000 GG_{33}	15.1	X	83.61702	64.05802	285.58416	1.15215	0.1429180	0.26114291	2.4241001	21	—	—
30146 Decandia	14.1	X	273.06152	184.72549	34.45049	0.65095	0.1434886	0.17600779	3.1534174	21	—	—
30147 Amyhammer	14.7	X	7.89055	19.22185	207.02406	5.58803	0.0930481	0.28219553	2.3019857	21	4 20.2	16.8
30148 2000 GP_{45}	15.1	X	252.52120	281.42073	48.33837	3.18358	0.2468449	0.27800919	2.3250374	21	3 18.6	18.8
30149 Kellyriedell	15.5	X	54.23326	100.60836	29.76679	4.56555	0.1684620	0.27861005	2.3216934	21	2 26.7	17.3
30150 Laseminara	14.6	X	232.08925	101.12934	188.94212	6.48414	0.1161556	0.27157423	2.3616218	21	1 13.5	18.3
30151 Susanoffner	15.2	X	13.31064	276.70095	202.20248	6.18196	0.0603153	0.27027438	2.3691876	21	—	—
30152 Reneefallon	15.0	X	217.29149	230.76565	37.13767	2.83735	0.1491567	0.26641924	2.3919880	21	—	—
30153 Ostrander	15.8	X	325.48614	266.54772	34.01846	6.20302	0.1358360	0.28474296	2.2882355	21	5 20.7	18.0
30154 Christichil	14.6	X	70.26731	304.91619	27.54476	4.22028	0.1920735	0.25529896	2.4609532	21	—	—
30155 Warmuth	15.6	X	2.15657	200.00728	25.61834	3.83445	0.1166665	0.28098982	2.3085662	21	4 6.9	17.4
30156 2000 GH_{55}	15.6	X	101.79440	136.85914	199.82282	5.32186	0.1467724	0.30670507	2.1776533	21	—	—
30157 Robertspira	15.6	X	80.37563	162.51100	164.15243	2.78028	0.1894280	0.25558909	2.4590905	21	—	—
30158 Mabdulla	14.9	X	331.71071	168.10038	134.37712	1.96329	0.1359304	0.19265280	2.9690613	21	6 10.8	18.4
30159 Behari	15.5	X	355.27261	259.36102	54.60356	3.11900	0.1518913	0.24307290	2.5427970	21	8 15.2	17.8
30160 Danielbruce	15.8	X	255.13456	341.52725	222.30702	1.41763	0.1159016	0.26476079	2.4019664	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
30161 Chrepta	15.9	X	322.12901	339.66022	214.28232	2.01398	0.1478663	0.27237833	2.3569716	21	—	—
30162 Courtney	15.1	X	250.12063	242.49396	341.94633	0.72551	0.1394574	0.26597850	2.3946297	21	—	—
30163 2000 GK_{58}	13.9	X	162.97890	230.56733	19.98453	9.25418	0.1142644	0.21136584	2.7911265	21	12 16.1	18.4
30164 Arnobdas	15.4	X	276.06458	95.45068	57.30220	0.74254	0.0697377	0.26163619	2.4210523	21	—	—
30165 2000 GF_{61}	13.8	X	28.69509	40.90366	46.01228	3.58078	0.0656896	0.22176595	2.7031666	21	—	—
30166 Leodeng	14.7	X	151.40066	314.98656	11.24278	6.65954	0.1039684	0.26580979	2.3956428	21	—	—
30167 Caredmonds	14.9	X	199.49081	152.77957	209.52482	5.46272	0.1210051	0.27714048	2.3298935	21	3 11.8	18.4
30168 Linusfreyer	15.1	X	183.32860	55.08798	234.92331	1.61043	0.1804725	0.26362472	2.4088622	21	—	—
30169 Raghavganesh	15.3	X	143.34318	264.92615	168.63868	2.46954	0.1298225	0.28108885	2.3080239	21	4 17.0	18.3
30170 Makaylaruth	15.1	X	194.67776	293.39514	93.12047	2.53302	0.0692956	0.23359179	2.6111450	21	4 13.5	18.9
30171 2000 GY_{70}	14.3	X	169.71875	305.60143	29.92943	7.01386	0.1459088	0.26805283	2.3822598	21	1 12.8	17.8
30172 Giedraitis	14.7	X	96.20680	116.29819	157.64076	2.45235	0.0195988	0.20594058	2.8399330	21	10 30.5	18.7
30173 Greenwood	15.5	X	183.41471	179.83095	181.35721	4.72464	0.0131415	0.27490126	2.3425285	21	2 14.8	18.6
30174 Hollyjackson	15.2	X	105.63912	140.87286	55.43208	1.82323	0.0805690	0.29035357	2.2586621	21	8 15.2	17.9
30175 Adityajain	15.4	X	221.56069	291.43913	342.78598	1.64311	0.1446637	0.22029661	2.7151730	21	—	—
30176 Gelseyjaymes	15.4	X	283.55087	17.76856	224.20322	5.86179	0.0976846	0.27167777	2.3610217	21	1 8.2	18.7
30177 Khashayar	14.5	X	36.40963	349.02534	216.18963	6.25385	0.0632403	0.28224476	2.3017180	21	5 9.4	16.7
30178 2000 GW_{77}	15.4	X	194.84280	127.56696	225.05197	2.59458	0.2271980	0.27325795	2.3519108	21	2 27.3	19.3
30179 Movva	15.1	X	223.01587	248.44110	299.58119	3.87082	0.1433577	0.26018727	2.4300321	21	12 7.7	18.4
30180 2000 GX_{87}	13.7	X	8.10639	55.37538	169.62661	13.88929	0.0768488	0.23580242	2.5947999	21	4 28.9	16.9
30181 2000 GR_{88}	14.2	X	161.02307	247.91167	54.31802	13.63191	0.1456656	0.21726405	2.7403801	21	—	—
30182 2000 GC_{95}	13.8	X	9.44062	296.73584	10.61349	12.82518	0.1839523	0.24333269	2.5409868	21	9 10.4	16.2
30183 Murali	15.3	X	215.00069	242.45243	4.86550	4.19850	0.1681094	0.26319528	2.4114818	21	—	—
30184 Okasinski	15.0	X	235.91251	262.08320	4.99674	6.70431	0.1209826	0.26830031	2.3807946	21	—	—
30185 2000 GT_{95}	13.2	X	82.02238	322.11068	250.09654	5.24184	0.1581678	0.24252473	2.5466272	21	8 12.4	16.8
30186 Ostojic	14.4	X	329.37047	231.92999	17.93833	8.75746	0.1920332	0.23134124	2.6280524	21	3 15.3	17.5
30187 Jamesroney	15.1	X	270.46698	251.11715	36.47868	4.10761	0.1853399	0.27382350	2.3486713	21	2 15.5	18.6
30188 Hafsasaeed	14.8	X	54.50207	262.41656	310.69831	0.90791	0.1231471	0.28523075	2.2856259	21	6 30.6	17.0
30189 2000 GV_{96}	13.5	X	338.59118	93.67815	219.59305	10.85733	0.1781826	0.23844669	2.5755808	21	7 2.5	16.2
30190 Alexshelby	14.9	X	341.51200	163.37844	27.86011	6.24867	0.1775050	0.27330258	2.3516548	21	1 3.8	17.7
30191 Sivakumar	14.8	X	240.00267	15.34888	251.00910	5.24617	0.0738481	0.27080609	2.3660855	21	—	—
30192 Talarterzian	15.3	X	15.18793	52.11599	219.45407	5.58023	0.1696568	0.28717409	2.2753029	21	7 21.3	17.1
30193 Annikaurban	15.1	X	322.68130	341.53406	342.94075	5.99334	0.1436423	0.28741705	2.2740204	21	6 23.1	17.3
30194 Liamyoung	14.6	X	156.87645	101.34451	235.59618	5.86857	0.1838062	0.26742049	2.3860137	21	1 3.2	18.1
30195 Akdemir	15.1	X	141.89549	333.42961	326.09259	6.17939	0.1903128	0.26166017	2.4209044	21	—	—
30196 2000 GB_{102}	15.2	X	66.58424	8.88032	338.97482	5.89207	0.1975824	0.30463038	2.1875295	21	—	—
30197 Nickbadyrka	15.7	X	78.73153	265.17776	221.31129	4.51223	0.0281760	0.27999214	2.3140469	21	3 15.9	18.5
30198 2000 GR_{103}	15.8	X	339.53048	118.31795	161.44655	4.43967	0.0796289	0.28486271	2.2875941	21	5 24.1	18.2
30199 Ericbrown	15.9	X	204.98210	336.67979	178.46576	5.96756	0.0460655	0.29932314	2.2133114	21	10 23.3	18.5
30200 Terryburch	15.0	X	294.05926	75.56909	135.81905	3.02413	0.1618151	0.27067569	2.3668453	21	—	—
30201 Caruana	15.3	X	137.33220	89.04779	160.43670	3.39500	0.1649916	0.25395187	2.4696483	21	11 28.4	19.3
30202 2000 GD_{105}	14.6	X	296.92398	176.95451	104.30746	3.23856	0.0701647	0.23271640	2.6176891	21	3 29.6	18.0
30203 Kimdavis	15.3	X	246.49329	220.81095	335.10224	1.80844	0.1205681	0.26284488	2.4136245	21	—	—
30204 Stevedoherty	14.9	X	289.93811	345.57170	147.30022	3.23283	0.1053454	0.26134589	2.4228448	21	—	—
30205 Mistyevans	15.1	X	167.14510	345.02759	165.02750	5.17865	0.0323235	0.29233003	2.2484700	21	8 24.8	17.7
30206 Jasonfricker	14.8	X	170.02027	109.49142	166.82215	5.79604	0.0763035	0.21530350	2.7569908	21	—	—
30207 2000 GL_{109}	14.7	X	285.56779	23.91193	180.16815	9.05016	0.1606782	0.22213080	2.7002058	21	—	—
30208 Guigarcia	15.2	X	225.16911	72.71266	209.92729	6.18078	0.1092574	0.27174591	2.3606270	21	—	—
30209 Garciaarriola	14.8	X	286.07080	255.24829	85.91450	4.78559	0.1597754	0.23942113	2.5685877	21	5 19.5	18.1
30210 2000 GN_{122}	14.8	X	316.44358	246.11294	64.71920	14.40128	0.2554556	0.23652203	2.5895342	21	5 7.6	17.7
30211 Sheilah	14.6	X	260.78711	231.84597	175.19956	6.76991	0.1299706	0.28980905	2.2614904	21	7 19.3	17.5
30212 2000 GP_{123}	14.0	X	223.85567	239.26441	74.43907	11.62123	0.1732573	0.22367308	2.6877791	21	2 14.9	18.6
30213 2000 GW_{124}	14.0	X	127.12583	193.15520	171.02618	10.26296	0.1404106	0.26541109	2.3980414	21	—	—
30214 2000 GS_{125}	14.2	X	260.46188	243.87326	110.68020	7.37055	0.1420107	0.28247041	2.3004921	21	5 7.9	17.4
30215 2000 GU_{125}	14.2	X	75.95675	65.42323	75.37430	11.68517	0.0698581	0.23232187	2.6206518	21	4 20.4	17.6
30216 Summerjohnson	14.6	X	345.11070	161.73684	152.29549	6.63121	0.1380809	0.28637669	2.2795245	21	7 23.7	16.5
30217 2000 GA_{126}	14.7	X	18.95250	238.22509	200.95004	12.04618	0.0281020	0.26214504	2.4179183	21	—	—
30218 Paulaladd	15.0	X	106.92598	47.59780	147.95922	5.35763	0.0724725	0.28886577	2.2664109	21	8 13.5	17.9
30219 2000 GM_{126}	13.6	X	269.83368	51.20380	219.87898	27.00370	0.3057111	0.17585834	3.1552036	21	1 20.3	19.5
30220 2000 GP_{126}	14.0	X	43.28948	108.38259	163.47874	6.66491	0.1932825	0.28768650	2.2726003	21	9 24.3	16.2
30221 LeDonne	14.7	X	70.86635	51.16382	140.36251	8.31415	0.1649852	0.28312475	2.2969462	21	7 2.2	17.3
30222 Malecki	15.2	X	0.51815	74.88039	107.63132	6.47698	0.1447571	0.27499357	2.3420043	21	1 26.7	17.3
30223 2000 GE_{134}	13.9	X	161.57925	103.54352	169.54191	7.55317	0.1998691	0.21036957	2.7999317	21	—	—
30224 2000 GU_{136}	13.5	X	330.31091	238.55450	89.80647	15.21016	0.2078599	0.23911035	2.5708129	21	7 6.1	15.7
30225 2000 GV_{137}	14.7	X	257.76044	104.62787	169.01025	1.05268	0.1328320	0.17891714	3.1191391	21	2 2.3	19.6
30226 2000 GY_{137}	14.5	X	262.77917	273.49254	56.34296	5.29125	0.1777549	0.28023455	2.3127123	21	4 3.1	17.9
30227 2000 GO_{139}	15.5	X	319.97470	198.11697	112.64161	6.83092	0.1628125	0.23842778	2.5757170	21	5 28.1	18.4
30228 2000 GO_{141}	14.0	X	69.45160	301.41744	69.91022	10.12639	0.1688107	0.21536589	2.7564584	21	—	—
30229 2000 GL_{142}	15.1	X	234.54121	239.30719	80.64795	13.13292	0.1676872	0.22789561	2.6544756	21	3 5.3	19.6
30230 2000 GP_{142}	14.8	X	313.79869	185.44916	134.17032	9.05947	0.2143824	0.23704315	2.5857376	21	5 23.1	17.9
30231 2000 GZ_{142}	14.4	X	339.77334	256.62181	65.49790	13.81527	0.1971826	0.24097679	2.5575212	21	7 22.4	16.9
30232 2000 GV_{153}	15.3	X	284.87098	96.35204	251.12018	6.35384	0.1267204	0.28737909	2.2742207	21	5 28.4	17.8
30233 2000 GJ_{161}	14.0	X	328.30557	350.67923	192.36075	10.02157	0.1499508	0.17723941	3.1387918	21	1 1.7	18.4
30234 2000 GD_{167}	15.6	X	154.43603	187.36109	203.60070	21.56994	0.0794873	0.37342925	1.9098408	21	2 1.4	18.2
30235 Kimmiller	15.9	X	183.04730	172.82055	197.44200	6.92308	0.1182860	0.27724330	2.3293174	21	3 4.9	19.4
30236 2000 HF	14.3	X	321.50847	163.02526	126.10306	14.65778	0.1246634	0.23475249	2.6025310	21	5 10.5	17.7
30237 2000 HY_{1}	14.6	X	201.09710	90.34025	182.43839	5.84472	0.1150835	0.26314084	2.4118144	21	—	—
30238 2000 HY_{4}	14.1	X	125.54411	317.79345	189.17794	9.68809	0.0216063	0.19305091	2.9649781	21	6 23.7	18.5
30239 2000 HZ_{4}	14.2	X	51.99902	170.34715	43.05844	15.32703	0.0489466	0.23842120	2.5757644	21	6 14.3	17.6
30240 Morgensen	15.0	X	17.60527	106.85591	84.48576	3.12809	0.0690739	0.23213178	2.6220822	21	3 26.9	18.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
30241 Donnamower	15.5	X	57.55894	110.97786	202.87284	2.73298	0.0517924	0.29813007	2.2192124	21	11 21.5	18.2
30242 Naymark	15.1	X	74.44602	3.84349	44.76610	7.81141	0.0901783	0.26681216	2.3896390	21	—	—
30243 2000 HS_9	16.0	X	243.48563	88.40331	83.62573	2.29497	0.0708578	0.30512704	2.1851550	21	—	—
30244 Linhpham	15.4	X	268.72620	53.45290	49.79994	7.09460	0.1221602	0.29979340	2.2109962	21	10 28.2	17.5
30245 Paigesmith	15.0	X	91.85700	304.12487	224.41052	6.41107	0.1049947	0.23916111	2.5704491	21	6 20.1	18.4
30246 2000 HC_{13}	13.8	X	294.06822	61.01696	39.39281	12.88715	0.0591985	0.20861911	2.8155722	21	11 19.9	17.5
30247 2000 HN_{13}	13.6	X	190.31369	342.89292	330.17748	0.36615	0.1620382	0.17231539	3.1983060	21	1 19.8	18.8
30248 Kimstinson	14.1	X	151.95510	50.65604	232.37893	5.29070	0.2001217	0.21092239	2.7950372	21	—	—
30249 Zamora	14.8	X	262.59662	128.54687	240.60052	5.58460	0.1379888	0.28341104	2.2953991	21	5 28.5	17.7
30250 2000 HG_{14}	14.6	X	261.42285	99.35711	228.16650	4.99436	0.2178991	0.22907329	2.6453699	21	3 27.2	18.8
30251 Ashkin	15.4	X	308.30086	149.88222	232.46674	1.92848	0.0851393	0.24612432	2.5217365	21	8 30.9	18.3
30252 Textorisová	15.4	X	134.96558	358.72659	58.48228	7.64778	0.1779305	0.27546485	2.3393323	21	3 26.1	18.7
30253 Vítek	15.8	X	141.80071	264.70683	168.68479	5.86915	0.1876077	0.27777726	2.3263315	21	4 22.4	19.2
30254 2000 HZ_{25}	14.9	X	97.56734	102.40936	143.91800	2.48290	0.0193010	0.20187846	2.8779024	21	9 26.6	18.8
30255 2000 HK_{26}	15.5	X	155.87757	337.48655	161.16051	2.86778	0.1122389	0.24381812	2.5376131	21	7 26.0	19.2
30256 2000 HC_{30}	15.6	X	49.24530	1.49277	7.66126	6.02341	0.1535416	0.30349443	2.1929845	21	—	—
30257 Leejanel	15.0	X	231.29358	32.82408	290.92416	1.27391	0.1441652	0.27358413	2.3500411	21	2 23.7	18.7
30258 2000 HA_{33}	14.6	X	14.45344	95.30478	130.50085	14.55608	0.1044858	0.23470985	2.6028462	21	5 13.4	17.8
30259 Catherineli	15.1	X	344.86330	249.08230	86.53218	6.36133	0.1887312	0.29147602	2.2528598	21	9 5.1	16.6
30260 2000 HY_{35}	14.4	X	314.52459	266.89519	323.33766	6.05428	0.0668648	0.27443114	2.3452031	21	2 5.1	17.0
30261 2000 HB_{36}	14.5	X	130.79554	341.61204	167.40674	14.36114	0.0918320	0.24213385	2.5493671	21	7 9.7	18.4
30262 2000 HP_{41}	13.5	X	250.40606	209.69364	87.27100	14.52708	0.2754085	0.22330995	2.6906921	21	2 12.2	18.4
30263 2000 HR_{41}	14.3	X	46.75455	65.91602	102.07181	12.38192	0.1273805	0.23194055	2.6235233	21	4 20.5	17.4
30264 2000 HT_{44}	15.4	X	307.10155	235.77796	135.03288	3.93654	0.1432509	0.24547899	2.5261540	21	8 4.6	17.8
30265 2000 HH_{45}	15.4	X	123.07819	57.93346	63.46392	4.12966	0.0954596	0.28500689	2.2868226	21	5 23.3	18.3
30266 2000 HW_{48}	14.5	X	273.35519	312.65173	48.52383	14.21898	0.1806542	0.23739846	2.5831569	21	5 25.2	18.3
30267 Raghuvanshi	14.8	X	236.25699	125.77823	227.84692	0.43207	0.0490555	0.23279590	2.6170930	21	4 18.6	18.3
30268 Jessezhang	15.1	X	337.69156	124.41380	165.69467	1.44624	0.1450038	0.23627485	2.5913400	21	5 31.5	17.7
30269 Anandapadmanaban	15.2	X	319.22613	122.56250	67.72459	2.93292	0.1427009	0.27035003	2.3687457	21	—	—
30270 Chemparathy	15.2	X	185.56273	209.43836	79.76706	3.62126	0.1709723	0.26263645	2.4149013	21	—	—
30271 Brandoncui	15.6	X	126.40661	268.02322	232.13549	4.75532	0.0201845	0.28458613	2.2890761	21	6 13.6	18.4
30272 D′Mello	15.2	X	314.06536	19.85373	235.28562	0.89678	0.0534697	0.22992741	2.6388147	21	3 18.8	18.5
30273 Samepstein	15.3	X	17.21694	159.53772	204.04024	3.31490	0.1866562	0.29676735	2.2260007	21	12 25.3	17.6
30274 2000 HN_{53}	13.5	X	195.74299	297.66542	53.81318	13.97051	0.2110900	0.22384498	2.6864029	21	3 11.7	18.3
30275 Eskow	15.0	X	260.65145	265.56559	104.84573	2.18802	0.1776944	0.23612813	2.5924132	21	5 25.4	18.9
30276 Noahgolowich	15.1	X	236.70275	230.41457	87.50213	2.01204	0.0720054	0.22678763	2.6631143	21	3 4.6	19.0
30277 Charlesgulian	14.8	X	259.74774	172.54349	224.22700	4.85329	0.1308366	0.28660268	2.2783261	21	7 3.5	17.8
30278 2000 HN_{56}	13.8	X	272.19506	320.29206	84.26787	3.31746	0.0673700	0.19906192	2.9049852	21	8 9.6	17.7
30279 2000 HQ_{56}	15.1	X	225.59836	230.66163	116.36067	3.93955	0.1375862	0.27706712	2.3303048	21	3 21.8	18.6
30280 2000 HS_{56}	15.3	X	194.27277	357.48939	130.37337	3.57045	0.0921391	0.24730709	2.5136897	21	8 23.8	19.0
30281 Horstman	14.6	X	206.81649	212.31479	165.12215	7.47835	0.2009336	0.27789624	2.3256674	21	4 11.1	18.4
30282 2000 HQ_{57}	15.0	X	192.07718	203.31882	190.66069	6.31116	0.1186202	0.27941909	2.3172097	21	4 16.6	18.2
30283 2000 HS_{57}	14.7	X	4.92618	226.24789	60.54946	6.79934	0.1057260	0.28680575	2.2772505	21	7 23.6	16.8
30284 2000 HG_{58}	15.9	X	261.51304	162.31319	35.55132	0.22749	0.1556793	0.26396148	2.4068130	21	—	—
30285 2000 HB_{59}	13.5	X	244.77794	94.32273	234.20043	10.22742	0.1254808	0.18421363	3.0590615	21	3 22.7	18.4
30286 2000 HG_{61}	15.1	X	342.92597	248.91916	67.17645	3.20566	0.0938503	0.19518336	2.9433429	21	7 23.2	18.7
30287 2000 HK_{62}	15.5	X	152.73154	120.18588	217.15001	2.56750	0.2004596	0.21721853	2.7407629	21	1 10.5	19.7
30288 2000 HT_{62}	14.9	X	99.22188	173.13216	139.10092	5.03984	0.0586862	0.21105436	2.7938719	21	12 24.2	18.9
30289 2000 HP_{65}	15.5	X	72.74524	332.21179	168.46455	5.15112	0.0848808	0.27891101	2.3200229	21	4 7.2	17.8
30290 2000 HG_{69}	15.7	X	213.96907	261.81931	198.22500	6.86146	0.0391715	0.29141903	2.2531535	21	8 13.6	18.7
30291 2000 HL_{71}	14.3	X	252.04111	298.71328	61.20524	9.60372	0.2226346	0.23494519	2.6011078	21	4 30.3	18.4
30292 2000 HJ_{72}	15.9	X	279.17648	309.82541	82.26808	2.81387	0.1264065	0.29146125	2.2529359	21	7 26.6	18.2
30293 2000 HO_{72}	14.5	X	153.14497	24.40149	294.58965	4.79640	0.0575260	0.21927594	2.7235920	21	—	—
30294 2000 HQ_{74}	14.9	X	250.30489	130.15480	174.13075	3.57453	0.2275321	0.27319442	2.3522754	21	2 13.2	18.9
30295 Anvitagupta	15.1	X	295.13138	199.28765	153.17812	4.56810	0.1030864	0.24049227	2.5609551	21	6 25.5	18.2
30296 Bricehuang	14.9	X	155.51828	244.11388	165.29824	9.68265	0.0730514	0.23077865	2.6323217	21	3 30.5	18.6
30297 2000 HO_{77}	13.9	X	11.74472	179.32610	74.55959	16.10591	0.1318245	0.24068490	2.5595885	21	6 12.9	16.5
30298 Somyakhare	15.5	X	243.59486	351.84652	17.08794	7.61892	0.1935396	0.28433985	2.2903977	21	4 29.7	19.0
30299 Shashkishore	15.7	X	308.55066	0.28273	20.54957	2.97036	0.1875281	0.29267304	2.2467129	21	8 21.5	17.5
30300 2000 HF_{86}	14.3	X	344.90867	221.18511	72.40153	10.79861	0.0495764	0.19227251	2.9729750	21	6 26.6	18.1
30301 Kuditipudi	15.0	X	331.78415	144.04469	166.53264	5.26969	0.1752777	0.28663080	2.2781771	21	6 14.2	17.0
30302 Kritilall	15.4	X	198.25674	276.29448	315.88391	4.03479	0.0414085	0.25930702	2.4355284	21	—	—
30303 2000 HS_{93}	15.5	X	38.51395	116.73623	256.47265	2.52182	0.1389265	0.30271856	2.1967300	21	—	—
30304 2000 HZ_{103}	15.1	X	173.64493	351.44387	146.72060	14.40960	0.0997446	0.24506379	2.5290066	21	8 13.4	19.0
30305 Severi	14.0	X	65.72688	276.23998	58.19326	2.85718	0.0889611	0.20610529	2.8384198	21	12 15.7	17.9
30306 Frigyesriesz	14.8	X	5.99397	251.76435	77.10819	2.01219	0.0298058	0.24493896	2.5298657	21	9 18.8	17.9
30307 Marcelriesz	13.4	X	314.63453	234.43910	56.44438	9.85480	0.0252812	0.18691226	3.0295458	21	5 14.5	17.6
30308 Ienli	15.4	X	302.03788	87.57335	232.46258	5.27087	0.1404473	0.28445716	2.2897679	21	5 11.2	17.9
30309 2000 JR_2	14.2	X	345.81110	147.14296	97.52170	6.94598	0.0698123	0.27852624	2.3221591	21	4 15.8	16.8
30310 Alexanderlin	15.2	X	167.01933	70.06007	293.30774	1.44878	0.1030047	0.27139477	2.3626627	21	2 7.8	18.3
30311 2000 JS_{10}	14.2	X	264.36148	258.73305	245.49954	19.24855	0.1604820	0.35101871	1.9902878	21	12 28.1	15.7
30312 Lilyliu	15.4	X	207.89881	305.20366	277.67364	5.02833	0.0803320	0.25984145	2.4321878	21	—	—
30313 2000 JF_{14}	13.9	X	202.54273	274.56552	71.14042	4.69297	0.2337226	0.22410639	2.6843134	21	3 5.3	18.6
30314 Yelenam	15.0	X	237.81326	13.03838	67.11462	6.13631	0.1193256	0.29169049	2.2517554	21	8 11.4	18.0
30315 2000 JM_{14}	14.4	X	264.60881	68.82486	139.45221	1.66620	0.1402061	0.17157613	3.2074862	21	—	—
30316 Scottmassa	15.1	X	339.13929	354.41514	65.60004	4.21802	0.0947208	0.25460768	2.4654056	21	12 17.7	17.7
30317 2000 JR_{15}	14.1	X	345.26315	100.03275	97.81731	14.59488	0.0894003	0.23026790	2.6362127	21	2 14.1	17.5
30318 2000 JW_{15}	14.2	X	168.12321	207.06063	87.05661	3.26930	0.0704748	0.21716554	2.7412088	21	—	—
30319 2000 JT_{16}	13.6	X	57.69970	162.78454	78.74989	8.70062	0.0392419	0.19588335	2.9363267	21	8 2.9	17.7
30320 2000 JP_{17}	14.6	X	139.48861	178.78064	154.97984	6.19399	0.2103914	0.26320555	2.4114190	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
30321 McCleary	15.2	X	162.80024	46.93898	157.94784	5.24811	0.0766052	0.29894028	2.2152008	21	11 5.9	18.1
30322 2000 JU_{17}	14.0	X	125.25950	267.02947	60.23088	14.90133	0.3157318	0.21187499	2.7866532	21	—	—
30323 Anyam	14.9	X	284.78504	242.19541	120.34518	6.27234	0.1283294	0.28721315	2.2750966	21	6 19.8	17.5
30324 Pandya	15.8	X	187.39705	224.69522	277.09058	1.65335	0.0686792	0.29529976	2.2333699	21	9 6.8	18.6
30325 Reesabpathak	15.1	X	236.52828	340.47013	13.67691	8.99016	0.0256655	0.23470583	2.6028759	21	4 19.9	18.6
30326 Maxpine	15.9	X	131.45888	181.00231	327.10670	1.85860	0.1184544	0.28845375	2.2685686	21	7 13.5	19.0
30327 Prembabu	14.3	X	155.91955	147.72971	182.29068	5.09377	0.1199185	0.21699211	2.7426691	21	—	—
30328 Emilyspencer	14.9	X	35.52406	206.76983	347.12257	9.34981	0.1240189	0.28163869	2.3050190	21	4 18.9	17.1
30329 2000 JR_{23}	14.3	X	284.46752	221.71325	309.35443	5.25843	0.0527025	0.26413576	2.4057542	21	—	—
30330 Tiffanysun	14.7	X	248.54602	35.77064	266.22893	6.88684	0.1430905	0.27337679	2.3512292	21	2 10.9	18.4
30331 2000 JT_{26}	13.6	X	241.78673	332.23781	14.04492	9.26006	0.1408030	0.18550878	3.0448068	21	4 11.4	18.4
30332 Tanaytandon	15.1	X	249.19662	266.11066	271.01467	3.45574	0.0987823	0.26024023	2.4297025	21	—	—
30333 Stevenwang	14.8	X	278.81293	350.05755	7.80357	6.38628	0.1544965	0.28440775	2.2900331	21	5 29.3	17.7
30334 Michaelwiner	15.1	X	251.91063	157.57953	14.41905	5.07644	0.0869687	0.25951993	2.4341962	21	—	—
30335 2000 JU_{28}	13.2	X	256.66258	325.46575	19.65367	11.64400	0.1173801	0.18692036	3.0294583	21	4 26.2	17.7
30336 Zhangyizhen	14.8	X	283.69621	104.09315	261.84945	4.39670	0.1396347	0.23961888	2.5671743	21	6 21.9	18.1
30337 Crystalzheng	14.8	X	63.84333	44.47972	318.10302	1.84376	0.1915595	0.25643835	2.4536582	21	—	—
30338 2000 JW_{29}	15.1	X	43.03614	218.54174	331.84569	3.75196	0.1036881	0.28107453	2.3081023	21	4 29.4	17.3
30339 2000 JQ_{32}	15.1	X	298.70084	326.59358	358.51949	1.55594	0.2067647	0.23395230	2.6084619	21	5 6.3	18.3
30340 2000 JY_{32}	14.6	X	222.09034	87.49210	251.23331	4.34538	0.1107034	0.27369949	2.3493806	21	3 4.5	18.2
30341 2000 JT_{33}	15.1	X	82.94734	100.28424	304.44663	5.38777	0.1030371	0.26688155	2.3892248	21	—	—
30342 2000 JX_{35}	14.3	X	73.92548	230.64539	36.47916	2.42303	0.0135863	0.19980975	2.8977323	21	9 22.2	18.3
30343 2000 JB_{36}	14.9	X	319.25229	202.62714	359.19544	2.28962	0.1559372	0.27106932	2.3645535	21	—	—
30344 2000 JG_{36}	14.7	X	16.94692	230.69301	46.62953	16.28880	0.1838748	0.23879791	2.5730548	21	8 14.0	17.7
30345 2000 JN_{36}	13.9	X	240.20282	306.96372	48.55309	14.37437	0.1605296	0.23063974	2.6333786	21	4 20.1	18.0
30346 2000 JK_{37}	12.9	X	275.68992	345.43101	248.29113	14.02570	0.2207924	0.17452743	3.1712240	21	—	—
30347 Pattyhunt	14.9	X	36.02595	350.14369	241.69315	5.54657	0.1006843	0.28323716	2.2963384	21	6 22.7	17.1
30348 Marizzabailey	15.3	X	78.37744	261.16632	30.26693	0.89395	0.0880615	0.20350228	2.8625728	21	11 7.2	19.3
30349 2000 JV_{38}	14.8	X	200.10017	152.37750	45.96215	10.31682	0.1316850	0.20903420	2.8118436	21	11 18.6	19.2
30350 Beltecas	15.4	X	294.73442	145.36051	235.74008	2.86608	0.1716748	0.28869059	2.2673277	21	7 25.5	17.5
30351 2000 JK_{39}	14.2	X	263.17004	79.69030	247.84346	11.82287	0.2034301	0.22934165	2.6433059	21	3 27.1	18.5
30352 2000 JL_{39}	14.1	X	27.72064	271.65230	39.54294	2.64614	0.0531772	0.19883860	2.9071599	21	9 23.1	17.8
30353 Carothers	14.5	X	113.02316	243.16073	45.31311	2.76669	0.0642018	0.20733178	2.8272147	21	12 10.2	18.7
30354 2000 JR_{39}	14.8	X	216.92084	247.43283	20.55077	0.81056	0.1512198	0.17035162	3.2228385	21	—	—
30355 2000 JU_{39}	15.0	X	229.58706	184.48391	55.10700	4.74061	0.0929906	0.30966369	2.1637605	21	—	—
30356 2000 JJ_{41}	15.6	X	347.54899	18.93319	317.01515	1.18416	0.2167973	0.24382903	2.5375373	21	8 31.9	17.5
30357 Davisdon	14.8	X	137.82092	204.91181	219.21610	2.39741	0.0990787	0.22922420	2.6442088	21	3 29.6	18.5
30358 2000 JF_{49}	14.2	X	187.16955	350.91933	291.96324	5.41061	0.1097800	0.26257159	2.4152989	21	—	—
30359 2000 JE_{50}	14.3	X	253.78285	46.17349	256.92160	11.62831	0.1684090	0.22605247	2.6688851	21	2 18.9	18.8
30360 2000 JY_{50}	14.5	X	191.18752	306.27091	311.24550	4.84887	0.2003961	0.25967485	2.4332279	21	—	—
30361 2000 JJ_{51}	14.5	X	94.61013	193.15822	35.34079	12.53591	0.1088300	0.24433326	2.5340450	21	9 20.2	18.2
30362 Jenniferdean	15.6	X	91.69814	276.96074	289.31943	4.52428	0.0990458	0.29045344	2.2581443	21	8 11.5	18.4
30363 Dellasantina	14.8	X	202.34240	111.39815	108.99857	3.29048	0.1558441	0.25817863	2.4426197	21	12 24.0	18.2
30364 2000 JX_{54}	14.2	X	81.98771	230.73743	126.65025	3.73437	0.1955521	0.25720259	2.4487954	21	—	—
30365 Gregduran	15.2	X	56.41580	69.38092	102.96572	4.18865	0.0983141	0.28008380	2.3135420	21	4 29.5	17.5
30366 2000 JC_{57}	13.2	X	320.99045	340.26591	229.18512	12.49890	0.1119638	0.22474617	2.6792167	21	1 17.1	17.0
30367 2000 JS_{57}	13.8	X	210.08689	145.16376	82.22759	10.22308	0.0979124	0.21224114	2.7834473	21	—	—
30368 Ericferrante	14.2	X	17.11827	99.16075	212.55269	6.09609	0.0967015	0.24279168	2.5447601	21	9 14.6	17.0
30369 2000 JU_{58}	14.2	X	47.06118	63.19125	204.46326	8.44783	0.1410997	0.24032331	2.5621553	21	9 5.9	17.3
30370 Jongoetz	14.5	X	192.51217	220.04079	93.55878	5.54179	0.1139379	0.26530187	2.3986995	21	1 5.5	18.1
30371 Johngorman	15.5	X	259.54405	17.83133	294.17880	6.41723	0.1173849	0.27684350	2.3315594	21	3 8.0	18.8
30372 Halback	15.1	X	38.09568	226.45740	78.25399	3.19437	0.1187495	0.24489686	2.5301557	21	10 15.3	18.0
30373 Mattharley	14.9	X	156.14732	355.19804	339.97824	6.35032	0.1369665	0.26707333	2.3880809	21	—	—
30374 Bobbiehinson	15.1	X	202.18771	354.33201	318.37263	6.18129	0.1246087	0.26923623	2.3752740	21	1 14.7	18.7
30375 Kathuang	15.3	X	26.26726	351.67367	330.99986	3.32026	0.1629214	0.24650108	2.5191662	21	10 26.1	18.1
30376 2000 JE_{65}	13.5	X	258.57327	206.19159	103.51293	13.02794	0.1816826	0.22634872	2.6665559	21	3 13.3	17.9
30377 2000 JL_{66}	13.7	X	331.57596	190.25927	105.75050	14.66453	0.1487789	0.23496068	2.6009934	21	5 31.4	16.7
30378 2000 JW_{67}	15.1	X	224.64188	55.55387	112.64840	6.64653	0.1516417	0.25598066	2.4565821	21	11 14.8	18.5
30379 2000 JY_{69}	13.7	X	81.88377	239.83022	137.22610	17.25236	0.2823304	0.21132449	2.7914905	21	—	—
30380 2000 JE_{76}	15.3	X	342.63301	272.13372	154.15129	3.94923	0.0923031	0.30235968	2.1984679	21	—	—
30381 2000 JN_{76}	14.1	X	103.64648	53.43324	122.24691	5.95073	0.1966906	0.24020488	2.5629974	21	7 27.1	17.7
30382 2000 JB_{81}	14.4	X	17.72834	206.21069	95.16072	8.31171	0.1859798	0.24039382	2.5616543	21	9 18.9	17.0
30383 2000 KZ_{1}	15.1	X	175.08011	12.61300	112.53483	5.86170	0.1504908	0.28903549	2.2655237	21	7 30.6	18.5
30384 Robertirelan	14.7	X	101.25902	257.83152	129.42644	3.12624	0.0952468	0.21951179	2.7216408	21	—	—
30385 2000 KG_{8}	13.8	X	188.31055	190.54713	141.50033	7.89217	0.0872674	0.22022052	2.7157984	21	1 29.6	17.8
30386 Philipjeffery	14.6	X	123.91114	277.25119	36.11381	3.45846	0.0335589	0.21189919	2.7864410	21	—	—
30387 2000 KN_{16}	14.0	X	294.06920	145.36537	244.16605	12.95699	0.1679299	0.24268221	2.5455254	21	7 31.2	17.3
30388 Nicolejustice	14.8	X	6.74667	281.89905	177.05150	1.73462	0.0824799	0.21673427	2.7448439	21	—	—
30389 Ledoux	14.6	X	199.04097	129.24007	66.59592	3.04758	0.0288939	0.20709776	2.8293442	21	11 24.4	18.4
30390 2000 KX_{17}	14.0	X	204.99622	287.31080	55.51866	1.79022	0.1381454	0.17790718	3.1309326	21	3 6.9	19.1
30391 2000 KA_{23}	14.3	X	350.46698	164.30740	128.04063	11.98688	0.0595173	0.19165242	2.9793842	21	7 3.3	18.2
30392 2000 KX_{26}	14.0	X	262.07898	13.77446	248.85124	12.75502	0.2256571	0.22190521	2.7020355	21	1 9.5	18.7
30393 2000 KN_{30}	13.8	X	191.25677	312.43165	78.83266	5.26232	0.2373889	0.22722117	2.6597257	21	4 19.1	18.4
30394 2000 KZ_{32}	13.7	X	244.87606	72.72840	183.90138	1.39984	0.1163882	0.17151278	3.2082760	21	1 4.0	18.8
30395 2000 KQ_{36}	14.2	X	302.53621	313.20875	151.62459	15.02641	0.1220132	0.20984190	2.8046236	21	12 7.5	17.8
30396 Annleonard	14.5	X	91.83822	104.04261	62.17265	2.85543	0.0776810	0.18884926	3.0087945	21	6 14.0	18.7
30397 2000 KU_{39}	14.0	X	254.08829	280.93571	100.68954	6.90624	0.3392002	0.23470866	2.6028550	21	5 19.1	18.5
30398 2000 KM_{41}	13.6	X	259.25834	100.25288	197.24926	13.63868	0.1974211	0.17387636	3.1791354	21	2 23.6	18.9
30399 2000 KF_{42}	14.1	X	166.56005	162.26580	184.46377	15.46651	0.2435808	0.21708728	2.7418675	21	2 3.3	19.0
30400 2000 KL_{42}	14.7	X	74.74155	223.54240	148.09254	14.76907	0.1329457	0.25697614	2.4502337	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
30401 2000 KO_{47}	12.6	X	298.52108	66.73842	120.80484	17.02224	0.0835425	0.17152946	3.2080680	21	—	—
30402 2000 KN_{50}	15.0	X	100.31041	173.45601	169.82955	8.51997	0.1714068	0.25994797	2.4315233	21	—	—
30403 2000 KR_{50}	14.0	X	289.56780	260.30790	94.43877	14.72371	0.2037754	0.23566769	2.5957888	21	6 5.9	17.4
30404 2000 KN_{51}	16.0	X	199.64745	123.87047	213.43878	1.17757	0.0980203	0.22484757	2.6784112	21	2 16.1	19.9
30405 2000 KE_{52}	15.7	X	327.99137	20.22772	90.88102	4.16134	0.0958339	0.30845498	2.1694094	21	—	—
30406 Middleman	14.8	X	259.52239	267.01264	153.72447	3.57159	0.1152751	0.29128532	2.2538430	21	8 10.1	17.5
30407 Pantano	15.1	X	323.24408	112.59171	176.89105	4.39532	0.0218919	0.28083819	2.3093970	21	5 19.6	17.7
30408 2000 KW_{55}	13.6	X	33.75195	151.19142	88.55468	9.85180	0.0329387	0.19016642	2.9948851	21	6 25.3	17.4
30409 Piccirillo	14.9	X	322.20700	118.89196	193.96050	2.20137	0.1215672	0.23543456	2.5975021	21	6 9.3	17.8
30410 2000 KU_{56}	14.0	X	289.91105	204.32045	101.16584	11.01851	0.0689069	0.18374530	3.0642572	21	4 29.5	18.4
30411 2000 KP_{57}	15.0	X	190.96036	203.12996	149.32559	3.87608	0.1901519	0.27135761	2.3628784	21	2 24.2	18.9
30412 2000 KJ_{58}	14.6	X	321.59035	166.17025	153.71629	10.63963	0.0767156	0.19322520	2.9631948	21	6 25.3	18.5
30413 2000 KS_{59}	13.9	X	269.49087	189.86627	130.30294	3.16849	0.0735625	0.18500906	3.0502871	21	4 18.7	18.2
30414 Pistacchi	15.3	X	254.87190	282.65286	99.09713	2.09844	0.0583598	0.23805872	2.5783784	21	6 17.6	18.6
30415 2000 KT_{74}	14.0	X	308.20803	317.09392	180.38450	6.68358	0.1233742	0.21593393	2.7516221	21	—	—
30416 Schacht	15.9	X	138.50256	247.39076	113.05200	7.11480	0.0417304	0.26622633	2.3931433	21	—	—
30417 Staudt	14.6	X	258.81180	214.38755	104.13667	3.60472	0.2027227	0.22708732	2.6607708	21	3 18.7	18.8
30418 Jakobsteiner	14.6	X	210.41715	268.15935	77.07304	12.17844	0.2120436	0.22386965	2.6862055	21	3 14.8	19.4
30419 2000 LU	13.6	X	59.06057	328.26201	43.47135	7.35649	0.0932205	0.20931114	2.8093628	21	—	—
30420 2000 LD_{1}	13.8	X	221.25712	169.30845	131.26668	7.55229	0.0897213	0.22063879	2.7123650	21	1 25.4	18.0
30421 Jameschafer	14.4	X	177.29174	116.22910	149.37436	9.71391	0.1176572	0.21070813	2.7969317	21	—	—
30422 2000 LE_{4}	14.3	X	96.85293	283.30949	216.09134	14.41852	0.0829060	0.23103733	2.6303565	21	5 15.6	17.8
30423 2000 LG_{4}	13.4	X	49.46435	35.60532	118.07960	17.73010	0.0558676	0.17976518	3.1093218	21	4 7.3	17.9
30424 2000 LS_{4}	14.4	X	188.19030	44.54913	163.82743	6.02077	0.1256981	0.30010052	2.2094875	21	12 4.8	17.4
30425 Silverman	14.7	X	187.41735	155.32987	169.77018	5.12088	0.1614204	0.21821288	2.7324305	21	1 23.8	19.2
30426 Philtalbot	14.6	X	204.03134	39.54902	230.41439	5.25522	0.1437943	0.26172768	2.4204881	21	—	—
30427 2000 LX_{8}	14.1	X	15.57348	162.24733	177.83290	1.81669	0.1243902	0.19854983	2.9099780	21	10 20.5	17.6
30428 2000 LP_{11}	13.6	X	317.77376	52.50172	212.57630	14.74324	0.0748771	0.22757701	2.6569525	21	4 1.8	17.1
30429 2000 LR_{11}	13.4	X	278.47505	172.41514	166.93769	11.47470	0.1142681	0.18505190	3.0498163	21	5 19.4	17.9
30430 Robertoegel	14.9	X	42.26304	26.55667	144.02802	4.74463	0.0853992	0.27825264	2.3236811	21	3 31.3	17.1
30431 Michaeltran	15.3	X	132.65838	359.26193	157.31604	5.80918	0.1296641	0.28810742	2.2703863	21	7 26.6	18.4
30432 2000 LM_{20}	13.4	X	77.54444	291.55019	246.95242	11.43939	0.1308436	0.23105502	2.6302222	21	6 18.1	16.7
30433 2000 LJ_{21}	12.8	X	121.10427	223.85516	269.11700	15.26746	0.0417113	0.18063066	3.0993818	21	6 3.2	17.3
30434 2000 LQ_{21}	13.0	X	230.18936	85.95108	253.26402	13.19885	0.0860781	0.17651045	3.1474277	21	3 22.0	18.1
30435 2000 LB_{29}	13.2	X	254.93013	102.49558	195.59899	3.09661	0.2353050	0.12513923	3.9585888	21	2 25.1	19.4
30436 2000 LC_{29}	13.9	X	186.31106	284.85793	178.11204	2.83266	0.1705850	0.22964165	2.6410033	21	7 10.4	18.2
30437 2000 LE_{32}	14.4	X	10.20311	0.15134	213.71556	6.21913	0.0678331	0.27302277	2.3532612	21	4 6.9	16.7
30438 2000 LL_{34}	13.7	X	189.62729	122.92723	156.97324	10.55672	0.1566511	0.20979539	2.8050381	21	—	—
30439 Moe	13.7	X	218.89064	128.72383	29.28492	6.19578	0.1162374	0.25216257	2.4813173	21	10 27.4	17.1
30440 Larry	14.7	X	34.80427	250.86994	354.44145	1.42346	0.2016373	0.18970581	2.9997308	21	7 24.7	18.1
30441 Curly	13.9	X	240.94542	257.27358	71.71768	6.45725	0.1604558	0.17849801	3.1240200	21	3 24.3	19.0
30442 2000 MO_{4}	13.4	X	275.45067	54.25913	305.75720	9.53770	0.1397391	0.18368297	3.0649504	21	6 4.1	18.0
30443 Stieltjes	13.5	X	203.92870	134.02323	282.35210	6.85285	0.0320889	0.22999423	2.6383035	21	6 2.0	17.2
30444 Shemp	14.1	X	153.56293	44.94972	300.20545	8.01300	0.1673609	0.21319444	2.7751437	21	1 18.5	18.2
30445 Stirling	14.0	X	330.10827	286.84920	287.41540	12.04838	0.1500494	0.22240140	2.6980151	21	1 31.3	17.5
30446 2000 NO_{2}	14.0	X	311.39896	89.04672	207.66397	3.47553	0.1235847	0.22906744	2.6454150	21	4 30.2	17.2
30447 2000 NO_{3}	13.9	X	113.73149	65.68062	154.04813	3.58697	0.1129962	0.19458117	2.9494124	21	9 21.6	18.4
30448 Yoshiomoriyama	14.0	X	319.31916	323.57732	292.44370	12.81765	0.1460017	0.22455519	2.6807356	21	3 7.4	17.7
30449 2000 NH_{13}	13.3	X	264.71137	257.96148	287.26058	10.73028	0.1315238	0.20674903	2.8325249	21	—	—
30450 2000 NM_{20}	14.1	X	156.15843	254.24543	284.52633	8.83188	0.0410087	0.19264864	2.9691040	21	9 7.3	18.6
30451 2000 NX_{23}	14.1	X	337.95641	186.69438	126.13253	9.60603	0.1273836	0.18664944	3.0323891	21	7 6.9	17.6
30452 2000 NR_{24}	14.2	X	11.39078	297.64423	133.17304	13.16724	0.0847505	0.20454382	2.8528469	21	—	—
30453 2000 NQ_{25}	12.8	X	155.86077	301.06155	308.34701	12.78390	0.1361545	0.20337760	2.8637426	21	12 6.8	17.6
30454 2000 NK_{26}	14.1	X	68.08495	323.70789	203.33918	8.88587	0.0248588	0.17801958	3.1296146	21	5 8.9	18.4
30455 2000 NB_{27}	13.3	X	240.34539	71.32077	311.32689	10.37213	0.0062828	0.18215993	3.0820108	21	6 7.9	17.7
30456 2000 OY_{1}	13.8	X	261.67736	357.20530	296.39258	1.38943	0.1676156	0.17372228	3.1810149	21	2 26.5	18.7
30457 2000 OZ_{3}	13.8	X	329.74235	76.59167	294.20783	8.79528	0.1096785	0.18968229	2.9999788	21	9 7.8	17.6
30458 2000 OC_{6}	13.4	X	197.61115	193.30556	269.99768	7.84927	0.0825670	0.18464571	3.0542874	21	7 22.9	18.1
30459 2000 OK_{6}	14.3	X	127.42910	359.36085	202.22541	5.68520	0.1108044	0.28738142	2.2742084	21	9 18.6	17.5
30460 2000 OT_{6}	13.6	X	247.89843	38.27496	264.82439	9.51582	0.0406394	0.17336066	3.1854369	21	3 2.8	18.5
30461 2000 OZ_{9}	13.8	X	206.80499	204.02664	121.15359	6.13068	0.1590330	0.21841993	2.7307035	21	2 11.2	18.3
30462 2000 OM_{10}	13.4	X	359.06029	174.85361	128.77857	11.48467	0.1025707	0.18926381	3.0043993	21	8 1.1	17.0
30463 2000 OE_{11}	13.8	X	356.82343	50.97752	282.13579	9.00962	0.0889170	0.19181451	2.9777055	21	9 1.9	17.7
30464 2000 OH_{12}	14.4	X	332.83909	40.61940	268.08444	2.01872	0.0847787	0.23281136	2.6169772	21	6 25.8	17.2
30465 2000 OY_{13}	13.4	X	189.88070	95.18571	308.73903	5.54691	0.0558223	0.17870807	3.1215715	21	4 30.9	18.1
30466 2000 OP_{14}	13.6	X	194.33125	243.41398	132.74664	11.59490	0.1025157	0.17512065	3.1640583	21	4 9.1	18.7
30467 2000 OV_{14}	13.4	X	280.19025	49.83076	306.87976	8.04548	0.0515844	0.18422485	3.0589373	21	6 19.8	17.7
30468 2000 OW_{16}	13.2	X	110.40693	173.86964	294.69520	7.48477	0.0974644	0.17571143	3.1569621	21	4 25.1	17.9
30469 2000 OZ_{16}	14.0	X	183.55494	196.22243	179.50025	1.06502	0.1970223	0.17207411	3.2012950	21	3 27.2	19.2
30470 2000 OR_{19}	14.0	X	345.98334	81.04336	199.87700	3.16624	0.2122883	0.18525699	3.0475650	21	5 31.1	17.1
30471 2000 OF_{20}	13.6	X	274.29951	1.83827	250.33074	6.20222	0.0233091	0.16891521	3.2410834	21	2 5.7	18.3
30472 2000 OM_{23}	12.7	X	176.84962	53.11344	308.32168	15.09451	0.1862219	0.17129821	3.2109546	21	2 28.1	18.2
30473 Ethanbutson	14.1	X	11.99612	279.95971	334.98039	0.88384	0.1191647	0.18593706	3.0401294	21	6 17.3	17.5
30474 2000 OE_{26}	14.3	X	84.48943	317.62081	115.49319	10.42640	0.1423214	0.21464503	2.7626264	21	2 11.3	17.7
30475 2000 OA_{32}	13.3	X	256.04897	163.06788	148.24718	19.07559	0.1098764	0.17486066	3.1671938	21	3 22.8	18.2
30476 2000 OY_{34}	14.1	X	145.10329	24.20882	157.99795	16.13095	0.1215854	0.23712369	2.5851520	21	9 10.9	18.1
30477 2000 OM_{36}	14.0	X	212.61882	91.10472	200.20117	11.83301	0.1288032	0.21471126	2.7620583	21	1 5.5	18.7
30478 2000 OQ_{37}	13.9	X	207.13885	110.34581	212.48819	10.47878	0.1474534	0.16983852	3.2293263	21	2 10.6	19.3
30479 2000 OW_{37}	13.9	X	130.30536	142.23386	205.76190	10.35919	0.1781077	0.16217916	3.3302181	21	1 7.1	19.1
30480 2000 OH_{40}	14.0	X	58.58020	210.77699	271.41085	7.51027	0.2280641	0.21508741	2.7588371	21	3 12.1	16.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
30481 2000 OX_{40}	14.1	X	235.18385	129.03908	209.77887	9.59263	0.1435729	0.17537337	3.1610178	21	3 27.2	19.1
30482 2000 OG_{45}	12.0	X	106.73349	188.92746	287.15703	16.56208	0.1055466	0.17376294	3.1805187	21	4 29.3	16.9
30483 2000 OG_{52}	13.4	X	113.65715	121.51859	294.81689	8.37677	0.0465800	0.16984712	3.2292173	21	2 18.7	18.0
30484 2000 PD_{6}	14.0	X	338.69688	343.47412	10.10822	10.92867	0.1194413	0.18857812	3.0116779	21	9 7.1	17.5
30485 2000 PK_{16}	13.7	X	288.92631	325.01202	125.20449	6.82517	0.1964671	0.19476385	2.9475678	21	10 14.6	17.3
30486 2000 PE_{23}	14.0	X	154.28127	213.88246	280.53273	11.32575	0.2295123	0.23198819	2.6231642	21	7 22.0	18.6
30487 Dominikovacs	14.3	X	195.80402	59.65351	310.43856	0.23337	0.1628915	0.17376511	3.1804922	21	3 30.0	19.5
30488 Steinlechner	14.4	X	342.82877	231.32544	157.02066	2.34887	0.1031717	0.19417968	2.9534766	21	10 29.2	17.9
30489 2000 QL_{32}	13.2	X	213.71915	352.48910	67.09064	9.19364	0.0394949	0.18095227	3.0957083	21	6 19.3	17.7
30490 2000 QP_{33}	12.8	X	321.90965	211.03265	87.04212	16.75656	0.0519928	0.17791651	3.1308233	21	6 1.7	17.1
30491 2000 QJ_{38}	14.0	X	136.11339	315.65663	133.02345	2.17355	0.1650635	0.17357185	3.1828525	21	5 9.8	18.9
30492 2000 QQ_{40}	13.8	X	161.62591	293.70207	149.83738	1.92133	0.1806282	0.17545035	3.1600932	21	5 27.4	18.9
30493 2000 QM_{48}	13.5	X	342.56471	65.54326	157.82039	9.18858	0.0632516	0.17288079	3.1913289	21	3 26.3	17.8
30494 2000 QD_{67}	13.4	X	37.80532	194.73409	4.45931	21.01064	0.1728999	0.17602190	3.1532489	21	5 13.8	17.5
30495 2000 QZ_{72}	13.4	X	248.81719	322.75193	331.52174	11.96506	0.0501394	0.16923358	3.2370173	21	2 25.2	18.0
30496 2000 QN_{80}	13.9	X	319.00135	164.67669	177.38681	10.72737	0.1230242	0.18291389	3.0735356	21	7 13.9	18.0
30497 2000 QH_{97}	12.6	X	353.13790	89.25433	154.18081	13.81851	0.0794206	0.17520360	3.1630596	21	5 7.3	16.9
30498 2000 QK_{100}	11.8	X	266.61881	242.19063	107.41499	4.67545	0.0903097	0.08119144	5.2819694	21	5 24.8	18.9
30499 2000 QE_{169}	12.1	X	255.39795	107.29726	267.02811	3.91306	0.0566138	0.08374734	5.1739476	21	6 12.8	19.1
30500 2000 QC_{193}	14.0	X	177.46737	12.80972	96.84518	2.55504	0.1320383	0.18152886	3.0891496	21	7 10.9	18.9
30501 2000 RH_{17}	12.9	X	336.59990	334.72281	260.25291	8.36712	0.0983572	0.17232755	3.1981555	21	3 22.8	17.2
30502 2000 RY_{29}	13.4	X	134.79109	290.96655	211.37026	11.94089	0.1072936	0.17700247	3.1415924	21	7 5.8	18.4
30503 2000 RW_{79}	12.6	X	237.53762	231.49258	244.19969	9.80648	0.0618656	0.18943363	3.0026035	21	9 21.0	17.1
30504 2000 RS_{80}	11.4	X	40.77714	287.52451	296.69156	5.28823	0.0628762	0.08258224	5.2224978	21	6 20.1	18.1
30505 2000 RW_{82}	11.6	X	240.30304	195.57992	202.57377	28.66551	0.0807821	0.08291557	5.2084917	21	6 18.7	19.0
30506 2000 RO_{85}	11.0	X	274.82320	11.26350	343.36744	20.05738	0.0816596	0.08492290	5.1260892	21	6 6.5	18.1
30507 2000 SK_{8}	12.7	X	240.25029	54.53477	54.52567	10.61395	0.0634258	0.18902471	3.0069323	21	9 25.5	17.1
30508 2000 SZ_{130}	12.0	X	309.59130	102.39931	229.32457	17.23507	0.0468655	0.08520561	5.1147442	21	6 26.1	18.8
30509 Yukitrippel	14.5	X	61.62419	180.89998	86.68225	6.53252	0.1929535	0.26135869	2.4227657	21	10 13.2	17.8
30510 2001 DM_{44}	12.0	X	1.16878	48.74709	342.65460	11.43899	0.1273885	0.08142824	5.2717244	21	11 4.6	18.4
30511 2001 FS_{29}	14.4	X	163.34889	141.43819	149.76222	13.49172	0.1899564	0.22731123	2.6590231	21	—	—
30512 2001 HO_{8}	12.7	X	279.57696	43.28740	128.45927	25.71252	0.3226850	0.13062113	3.8470435	21	12 11.8	18.2
30513 2001 HE_{48}	14.4	X	76.04789	227.67712	127.32904	16.18257	0.1007234	0.22665010	2.6641915	21	—	—
30514 Chiomento	15.6	X	343.26060	303.73313	343.28466	3.19915	0.1843518	0.29732019	2.2232405	21	5 27.0	17.1
30515 2001 KZ_{29}	14.8	X	194.09087	287.44152	57.45989	15.39554	0.1322076	0.23478755	2.6022719	21	2 27.9	19.2
30516 2001 LB_{7}	14.2	X	93.52991	174.54280	198.91714	9.10158	0.1770683	0.21600884	2.7509859	21	—	—
30517 2001 LJ_{15}	12.9	X	308.08896	138.24344	252.63743	8.70129	0.0879914	0.15132480	3.4876212	21	8 29.8	17.7
30518 2001 LE_{16}	14.9	X	33.25110	244.41372	122.94090	7.05011	0.1393855	0.25935561	2.4352242	21	—	—
30519 2001 ML_{9}	15.6	X	276.02579	113.48126	233.68695	2.93765	0.1501223	0.28709837	2.2757029	21	5 12.3	18.5
30520 2001 MM_{11}	14.9	X	126.52964	141.14821	277.19180	6.42617	0.0946527	0.27842554	2.3227190	21	2 25.9	17.8
30521 2001 MU_{14}	14.4	X	146.33549	52.45591	319.19611	4.78047	0.2476072	0.22208494	2.7005775	21	2 17.9	18.7
30522 2001 MQ_{15}	13.3	X	61.57308	267.70991	145.74067	14.06597	0.3437357	0.21268755	2.7795511	21	—	—
30523 2001 MK_{23}	14.0	X	260.80002	222.39020	339.98734	10.09097	0.1484625	0.17189617	3.2035039	21	—	—
30524 Mandushev	15.6	X	266.95710	91.24465	305.29201	5.69515	0.1950403	0.29338343	2.2430846	21	7 4.1	18.6
30525 Lenbright	15.2	X	102.87032	55.21024	284.18174	1.64090	0.0880714	0.21597523	2.7512713	21	—	—
30526 2001 NC_{2}	14.9	X	126.69604	284.44866	103.99869	8.91280	0.2366511	0.27370609	2.3493429	21	2 13.2	18.1
30527 2001 NW_{10}	14.1	X	186.19188	193.72432	256.96523	8.64471	0.0553798	0.19327336	2.9627025	21	6 26.1	18.4
30528 2001 NT_{17}	16.0	X	52.30327	251.68651	40.42862	2.81536	0.0465933	0.30224466	2.1990256	21	10 14.2	18.2
30529 2001 NE_{18}	12.9	X	45.37937	162.67021	271.73968	14.55685	0.0519899	0.17284405	3.1917811	21	—	—
30530 2001 NS_{18}	16.2	X	153.34933	92.41514	199.93063	1.79319	0.1918576	0.26638927	2.3921674	21	—	—
30531 2001 ND_{21}	14.0	X	183.45173	77.16339	274.66189	1.81278	0.2035126	0.17584693	3.1553402	21	2 26.9	19.3
30532 2001 OO	14.4	X	191.64645	267.42318	177.39704	9.98287	0.0733318	0.19316345	2.9638263	21	6 24.6	19.1
30533 Saeidzoonemat	15.2	X	50.75700	223.69587	185.99490	2.46729	0.1819599	0.26397373	2.4067385	21	—	—
30534 2001 OA_{5}	12.6	X	154.10310	160.08138	259.85100	11.82571	0.1312472	0.17976667	3.1093046	21	4 15.1	17.7
30535 2001 OR_{5}	15.0	X	288.22349	39.22403	156.79566	24.04963	0.0303001	0.36879064	1.9258219	21	—	—
30536 2001 OJ_{7}	13.7	X	59.60544	88.13130	305.77830	7.99004	0.1684339	0.21264900	2.7798871	21	—	—
30537 2001 OR_{8}	15.0	X	166.85161	348.94777	257.66211	3.64291	0.1966933	0.26372208	2.4082693	21	12 20.2	19.0
30538 2001 OG_{12}	13.4	X	289.95031	228.13934	138.92601	10.36567	0.0830055	0.19052077	2.9911705	21	7 11.0	17.5
30539 Raissamuller	15.6	X	359.79210	182.69687	136.09397	6.84945	0.1758249	0.29515924	2.2340787	21	9 11.7	17.1
30540 2001 ON_{14}	14.0	X	270.25233	223.76550	135.65619	2.45247	0.1123649	0.19036749	2.9927758	21	6 1.7	18.3
30541 2001 OG_{20}	13.3	X	179.33486	153.72829	196.66774	22.94657	0.1627832	0.17555750	3.1588073	21	2 17.2	18.8
30542 2001 OG_{23}	13.7	X	101.41596	250.43639	228.57399	21.05724	0.0325328	0.22795270	2.6540324	21	4 13.5	17.5
30543 2001 OE_{27}	14.6	X	266.54114	59.87392	198.30527	15.36667	0.2164104	0.18006770	3.1058383	21	1 14.1	20.0
30544 2001 OO_{32}	15.4	X	283.79414	207.80816	37.68973	7.70533	0.0724593	0.27965991	2.3158792	21	1 17.0	18.5
30545 2001 OT_{35}	12.3	X	54.86965	279.16424	220.87672	27.06436	0.1738924	0.17313897	3.1881556	21	3 31.1	16.4
30546 2001 OA_{38}	15.1	X	168.30160	230.97357	76.66458	7.14953	0.1256089	0.26961410	2.3730542	21	—	—
30547 2001 OS_{44}	14.8	X	168.65503	241.25591	112.10086	15.11168	0.0669614	0.22525997	2.6751411	21	2 2.8	18.7
30548 2001 OT_{45}	14.6	X	326.08727	243.20799	102.01456	7.08748	0.1019195	0.19714137	2.9238216	21	8 4.4	18.1
30549 2001 OE_{46}	15.1	X	251.22400	242.26743	149.44647	4.67182	0.2414376	0.23978711	2.5659735	21	6 5.7	19.1
30550 2001 OH_{47}	14.4	X	205.60697	160.82673	132.63299	9.48002	0.2604452	0.17374230	3.1807705	21	1 10.6	20.1
30551 2001 OH_{50}	16.0	X	282.21626	124.64899	211.56023	3.85598	0.1972279	0.28803826	2.2707497	21	4 28.1	18.8
30552 2001 OM_{54}	14.4	X	43.37110	299.85806	89.27944	11.10362	0.1889405	0.21209711	2.7847073	21	—	—
30553 2001 OV_{56}	14.7	X	200.18909	105.39626	330.98083	2.98867	0.1227191	0.24023979	2.5627491	21	6 21.2	18.6
30554 2001 OP_{57}	15.3	X	120.31728	215.27564	151.84783	6.82743	0.1495332	0.26594772	2.3948145	21	—	—
30555 2001 OM_{59}	14.4	X	149.30082	261.89121	142.84861	21.15540	0.2835442	0.27763806	2.3271089	21	4 5.3	18.5
30556 2001 OX_{59}	14.8	X	260.09112	217.33862	129.09564	10.18063	0.2117223	0.23778072	2.5803876	21	4 24.3	19.0
30557 2001 OD_{67}	15.4	X	258.85083	218.99891	171.04247	5.15941	0.2176120	0.23768971	2.5810463	21	6 13.4	19.4
30558 Jamesoconnor	15.2	X	339.98588	24.86516	335.81116	6.45534	0.2082305	0.29779873	2.2208582	21	10 2.6	16.5
30559 2001 OG_{68}	14.6	X	232.09320	28.20134	343.95561	7.26628	0.2088910	0.23459406	2.6037026	21	4 24.0	19.1
30560 2001 OO_{71}	15.8	X	9.60196	240.37808	130.13581	7.69149	0.2209045	0.30085205	2.2058064	21	12 30.6	18.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
30561 2001 OP_{71}	13.7	X	83.76832	301.85027	103.86076	6.13228	0.1570529	0.21548286	2.7554607	21	1 5.6	17.0
30562 2001 ON_{72}	14.0	X	146.79317	233.75840	136.41914	0.41969	0.1617234	0.17123766	3.2117115	21	2 15.8	18.9
30563 2001 OZ_{75}	14.9	X	330.16060	210.40068	103.38443	3.17340	0.0413966	0.19563376	2.9388236	21	7 3.1	18.8
30564 Olomouc	14.9	X	146.85433	283.12686	165.12660	3.89830	0.1455058	0.23563485	2.5960299	21	5 15.4	18.9
30565 2001 OV_{80}	14.3	X	311.74661	17.70742	285.28226	12.97299	0.2538625	0.23692602	2.5865897	21	4 9.9	17.9
30566 Stokes	15.3	X	115.46579	263.76730	106.34991	3.05210	0.2250973	0.26834295	2.3805424	21	1 2.5	18.0
30567 2001 OR_{90}	16.2	X	122.12968	163.22811	218.70518	3.00417	0.1326742	0.27170362	2.3608720	21	1 11.7	19.0
30568 2001 OQ_{91}	14.1	X	250.79968	45.34793	231.87356	12.76385	0.1580695	0.22742668	2.6581232	21	1 18.8	18.6
30569 2001 OG_{94}	14.7	X	216.50294	23.50894	283.84325	2.79785	0.1971528	0.22706430	2.6609506	21	1 27.4	19.1
30570 2001 OO_{96}	14.4	X	15.25070	140.28370	261.98900	5.57820	0.1387363	0.25546555	2.4598832	21	—	—
30571 2001 OW_{97}	15.9	X	171.54718	272.99976	35.10492	5.32972	0.1989033	0.26978489	2.3720525	21	—	—
30572 2001 OE_{98}	13.1	X	224.96751	152.76198	258.82560	9.29180	0.1380219	0.18584699	3.0411117	21	6 14.7	18.0
30573 2001 OR_{99}	15.8	X	102.71794	297.43428	337.33099	0.57183	0.1895522	0.25827801	2.4419931	21	11 29.3	19.7
30574 2001 OQ_{100}	16.3	X	186.95904	203.83701	53.07105	3.31900	0.1617138	0.26695816	2.3887677	21	—	—
30575 2001 OM_{101}	13.8	X	61.59827	350.96405	122.40689	23.32500	0.0202607	0.17847087	3.1243366	21	2 24.4	18.3
30576 2001 OC_{103}	13.7	X	294.48718	93.61816	270.71810	8.24701	0.1977457	0.19054235	2.9909447	21	6 26.3	17.4
30577 2001 OU_{103}	15.7	X	14.01653	204.41041	179.29036	24.25629	0.0813388	0.40212367	1.8178706	21	—	—
30578 2001 OD_{105}	14.4	X	290.22438	235.67283	152.99248	8.99959	0.0389677	0.24076026	2.5590544	21	8 18.3	17.6
30579 2001 OW_{107}	14.1	X	217.65992	290.75511	100.08423	15.34388	0.1923200	0.23203304	2.6228261	21	5 13.6	18.7
30580 2001 PG_{2}	13.7	X	148.28467	287.06759	136.88831	11.26554	0.0420525	0.18240284	3.0792739	21	4 14.3	18.3
30581 2001 PY_{2}	13.5	X	184.69538	88.81487	285.70537	9.94799	0.1051700	0.22895931	2.6462478	21	3 13.4	17.8
30582 2001 PJ_{3}	15.1	X	313.47882	200.84453	116.61936	3.04075	0.1133345	0.24300176	2.5432932	21	6 2.6	18.1
30583 2001 PZ_{6}	14.8	X	209.41069	201.09970	167.70205	15.51094	0.1336992	0.23053821	2.6341516	21	4 7.8	19.0
30584 2001 PF_{9}	13.8	X	325.90044	33.85760	158.80937	13.47565	0.1138883	0.22263537	2.6961245	21	1 5.4	17.7
30585 2001 PE_{14}	15.3	X	332.89618	56.05746	292.48593	2.71827	0.2235453	0.24543821	2.5264339	21	8 12.9	17.3
30586 2001 PV_{21}	16.5	X	286.50200	102.66077	166.73640	2.14359	0.1519345	0.28134448	2.3066256	21	2 8.8	19.6
30587 2001 PC_{33}	13.7	X	254.53606	18.67115	357.68976	14.03080	0.1933716	0.23830758	2.5765830	21	5 19.7	17.9
30588 2001 PC_{35}	12.7	X	327.89066	289.53011	284.10375	10.58571	0.0920630	0.17672787	3.1448458	21	2 12.7	17.1
30589 2001 QQ_{7}	13.9	X	192.51052	234.43378	151.39155	9.87543	0.1007211	0.18231452	3.0802682	21	4 16.9	18.8
30590 2001 QZ_{9}	16.1	X	277.89943	188.03854	205.51906	2.42605	0.2074642	0.29200905	2.2501174	21	7 11.6	18.8
30591 2001 QG_{10}	14.6	X	123.74124	254.10175	171.13794	2.07274	0.2018918	0.22488471	2.6781163	21	3 29.0	18.4
30592 2001 QO_{10}	14.7	X	267.01202	67.50028	0.16833	1.38893	0.2194728	0.19428573	2.9524017	21	8 9.9	18.9
30593 Dangovski	14.6	X	74.98400	264.92595	111.93022	6.21665	0.0749879	0.21356333	2.7719470	21	—	—
30594 2001 QD_{30}	12.6	X	174.86876	8.72574	11.17457	11.84620	0.2001064	0.17347472	3.1840406	21	3 25.9	18.0
30595 2001 QE_{43}	13.8	X	359.10222	220.53455	327.44211	10.66426	0.0766727	0.18203075	3.0834687	21	2 27.5	17.7
30596 Amdeans	15.5	X	31.39926	74.18664	233.19552	3.51237	0.1946595	0.29916399	2.2140963	21	10 28.6	17.7
30597 2001 QP_{69}	14.6	X	291.82217	83.98311	199.22398	11.72968	0.2707509	0.23382089	2.6094392	21	2 22.3	18.9
30598 2001 QA_{117}	13.4	X	237.31594	303.11863	332.74537	12.42450	0.1642341	0.22234512	2.6984704	21	1 11.8	17.9
30599 2052 P–L	16.1	X	319.28806	158.36846	203.05290	5.94765	0.1678258	0.28980243	2.2615248	21	8 10.9	18.1
30600 2078 P–L	13.6	X	250.19071	82.51018	354.11007	7.03670	0.1381819	0.24033783	2.5620521	21	8 16.5	17.1
30601 2082 P–L	15.5	X	354.49472	65.67861	254.63235	3.73220	0.1624722	0.29006091	2.2601811	21	8 25.3	17.1
30602 2086 P–L	15.2	X	229.59340	139.40174	269.54930	2.88082	0.1720140	0.23876237	2.5733101	21	6 12.3	19.3
30603 2106 P–L	15.9	X	334.04826	97.67158	220.57401	6.34698	0.1217150	0.24020559	2.5629924	21	7 7.4	18.7
30604 2107 P–L	15.8	X	19.68850	13.55918	243.61171	4.94488	0.1483670	0.28848253	2.2684177	21	7 5.7	17.5
30605 2204 P–L	15.6	X	170.73136	106.01589	343.83349	6.20578	0.1219578	0.28657651	2.2784648	21	6 6.1	18.9
30606 2503 P–L	13.6	X	281.06897	59.35542	7.32985	14.98956	0.1072942	0.24172701	2.5522268	21	9 19.8	16.7
30607 2507 P–L	15.8	X	180.51534	80.95264	2.13394	5.74701	0.1221012	0.28675320	2.2775288	21	6 7.5	19.1
30608 2573 P–L	15.2	X	321.01338	303.52447	25.11480	4.52844	0.2242142	0.24046841	2.5611246	21	6 13.5	17.9
30609 2618 P–L	14.5	X	46.50023	74.29839	181.25853	3.03092	0.1772400	0.24071027	2.5594086	21	8 26.9	17.3
30610 2623 P–L	15.6	X	281.28129	337.28852	13.63009	15.00425	0.1175597	0.23926332	2.5697170	21	5 27.9	19.3
30611 2627 P–L	14.8	X	36.84558	43.61809	21.86829	5.91557	0.1351190	0.21447867	2.7640548	21	—	—
30612 2638 P–L	15.9	X	314.69067	166.74055	189.23706	1.99268	0.2323767	0.24116322	2.5562030	21	7 11.9	18.4
30613 2678 P–L	15.2	X	316.15339	32.13018	117.16849	2.14258	0.1304078	0.26362019	2.4088898	21	—	—
30614 2778 P–L	14.7	X	254.89863	85.11346	167.43269	1.62415	0.0225265	0.26570312	2.3962839	21	—	—
30615 2818 P–L	15.1	X	296.99667	170.49752	43.40836	4.69910	0.1388333	0.26620448	2.3932743	21	—	—
30616 3049 P–L	14.8	X	196.13159	58.29817	256.54034	6.40065	0.1660777	0.26651675	2.3914045	21	1 12.2	18.6
30617 3068 P–L	14.6	X	170.76273	240.16985	281.89728	6.02727	0.0416497	0.24145975	2.5541097	21	9 8.4	18.3
30618 3084 P–L	14.8	X	31.85275	268.93416	236.04394	5.94133	0.0434290	0.26697903	2.3886432	21	2 2.4	17.7
30619 4045 P–L	15.0	X	260.83439	37.79005	342.30628	5.15491	0.1418813	0.23943706	2.5684737	21	6 10.9	18.7
30620 4126 P–L	15.7	X	329.55514	147.32743	200.46041	1.10589	0.2011249	0.24143882	2.5542574	21	8 5.7	17.7
30621 4189 P–L	15.3	X	178.87473	184.52008	281.51557	4.12456	0.1844099	0.23866202	2.5740314	21	7 7.9	19.4
30622 4213 P–L	14.5	X	346.00370	308.40776	347.71373	8.20675	0.0713969	0.19124568	2.9836071	21	7 2.0	18.4
30623 4226 P–L	15.4	X	347.09813	236.81855	264.37274	1.71056	0.1285942	0.26460288	2.4029220	21	—	—
30624 4232 P–L	16.1	X	127.67832	335.04914	307.99025	1.44040	0.1869769	0.26244871	2.4160528	21	12 31.2	20.1
30625 4236 P–L	15.9	X	243.19234	39.80736	344.19417	7.36868	0.1307261	0.28739814	2.2741202	21	5 24.5	19.3
30626 4240 P–L	14.4	X	49.24980	237.02978	357.80149	9.74940	0.0440446	0.19097007	2.9864770	21	7 14.1	18.6
30627 4269 P–L	14.4	X	229.34523	223.20228	205.09500	8.33342	0.0756980	0.19107758	2.9853567	21	7 14.2	19.0
30628 4644 P–L	14.7	X	25.21234	287.06092	186.74029	4.98925	0.0038036	0.21686718	2.7437224	21	—	—
30629 4667 P–L	14.4	X	201.64367	303.18179	27.11777	7.01662	0.2079309	0.21872887	2.7281316	21	2 15.6	19.1
30630 4733 P–L	16.1	X	132.40806	143.99893	169.47359	6.17857	0.1291557	0.26362761	2.4088446	21	—	—
30631 6026 P–L	15.6	X	182.04795	95.00770	195.26145	9.00256	0.1265175	0.21641037	2.7475821	21	—	—
30632 6117 P–L	15.4	X	74.16052	18.37066	18.27066	1.84642	0.1657110	0.26384062	2.4075479	21	—	—
30633 6120 P–L	15.7	X	335.09973	165.43287	188.88981	5.25964	0.2450785	0.24211020	2.5495331	21	8 25.7	17.4
30634 6128 P–L	15.7	X	325.62660	113.26653	223.53407	0.85221	0.1627782	0.24093511	2.5578162	21	7 15.7	18.0
30635 6186 P–L	15.9	X	337.50202	97.29395	200.74511	5.66743	0.1927190	0.28898880	2.2657676	21	6 2.9	17.7
30636 6190 P–L	15.4	X	7.55897	44.86335	230.48581	4.07258	0.1334744	0.28907732	2.2653051	21	7 8.4	17.2
30637 6196 P–L	14.3	X	6.31316	107.75073	192.59195	9.31297	0.0328295	0.19208596	2.9748995	21	8 3.6	18.5
30638 6237 P–L	15.2	X	329.88171	276.87659	212.44758	4.98281	0.0243958	0.21515065	2.7582965	21	—	—
30639 6246 P–L	14.0	X	139.12570	87.64270	303.31478	3.60017	0.1859798	0.17102175	3.2144140	21	3 5.5	19.2
30640 6319 P–L	15.2	X	109.40766	114.71358	262.92867	2.32944	0.1068390	0.31352765	2.1459461	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
30641 6349 *P–L*	15.6	X	39.52066	181.83368	237.87659	2.91952	0.0746134	0.21482389	2.7610928	21	—	—
30642 6532 *P–L*	16.0	X	289.19094	340.27607	12.58511	6.11318	0.2601433	0.24022370	2.5628635	21	5 21.8	19.6
30643 6590 *P–L*	14.0	X	300.98472	21.84532	6.84125	9.52098	0.0784297	0.19265218	2.9690677	21	8 28.9	17.9
30644 6601 *P–L*	15.7	X	358.97408	147.05249	163.68427	6.96918	0.1406806	0.29009979	2.2599792	21	8 19.4	17.4
30645 6604 *P–L*	15.2	X	286.86971	281.37795	137.76226	2.94762	0.1881922	0.24143898	2.5542562	21	9 2.9	18.2
30646 6623 *P–L*	15.3	X	62.93201	60.45286	10.31110	6.15439	0.0744289	0.26512336	2.3997761	21	—	—
30647 6642 *P–L*	15.2	X	338.12369	300.30079	49.48733	2.89932	0.1379784	0.29047637	2.2580255	21	9 10.8	16.9
30648 6679 *P–L*	15.4	X	242.71794	205.98499	355.61265	5.28413	0.0984529	0.26364032	2.4087672	21	—	—
30649 6871 *P–L*	16.1	X	2.18892	114.86367	126.23495	2.01588	0.0960144	0.28717519	2.2752971	21	5 2.9	18.2
30650 7638 *P–L*	14.3	X	264.78593	256.33434	160.21745	7.49075	0.1277649	0.24060895	2.5601271	21	8 6.3	17.6
30651 9588 *P–L*	15.2	X	135.87084	304.18417	62.30903	1.64441	0.2165276	0.26577836	2.3958317	21	1 23.3	18.5
30652 1236 *T–1*	15.5	X	318.49433	105.40726	353.82458	5.26536	0.1282426	0.30761661	2.1733493	21	—	—
30653 2190 *T–1*	15.1	X	184.69200	75.16656	35.53523	4.79231	0.0867206	0.24183829	2.5514438	21	7 21.9	18.9
30654 2234 *T–1*	14.3	X	242.73618	96.03190	13.75519	12.95141	0.1099174	0.24510733	2.5287071	21	9 25.2	17.6
30655 2289 *T–1*	13.8	X	4.28145	108.37952	20.35445	9.28611	0.1039606	0.21336217	2.7736891	21	—	—
30656 3098 *T–1*	12.6	X	116.94869	103.23206	357.47098	17.92111	0.1910469	0.17987922	3.1080075	21	4 29.7	17.6
30657 3258 *T–1*	14.2	X	145.40230	83.26020	247.78022	1.17935	0.0743781	0.21132980	2.7914438	21	—	—
30658 4042 *T–1*	14.4	X	58.21339	196.03679	17.04893	12.90205	0.0940281	0.23985362	2.5654991	21	7 3.7	17.8
30659 4109 *T–1*	13.5	X	227.45124	223.40691	79.15819	2.12421	0.1691748	0.17323549	3.1869712	21	2 7.9	18.7
30660 4142 *T–1*	16.0	X	46.33888	233.78576	45.79392	4.88314	0.1288659	0.30088456	2.2056475	21	10 2.1	18.4
30661 4166 *T–1*	13.8	X	240.01002	307.60899	19.50132	10.69965	0.1013507	0.17704349	3.1411071	21	3 24.3	18.6
30662 4256 *T–1*	13.5	X	73.72454	111.58472	23.52307	5.56843	0.0696947	0.17808256	3.1288767	21	4 10.9	17.7
30663 1026 *T–2*	15.3	X	268.42568	307.83466	0.25853	4.51751	0.1234673	0.28119395	2.3074487	21	3 15.1	18.5
30664 1040 *T–2*	15.3	X	64.35810	331.41665	207.52425	1.49349	0.0742790	0.28208309	2.3025974	21	5 17.9	17.6
30665 1144 *T–2*	15.3	X	99.50223	229.23962	282.30354	2.26535	0.0996646	0.28206031	2.3027214	21	6 4.3	18.1
30666 1156 *T–2*	15.2	X	296.59387	198.66530	190.41933	6.19942	0.1884557	0.24482600	2.5306438	21	8 3.9	18.3
30667 1177 *T–2*	14.6	X	264.58205	234.54477	193.52509	10.64931	0.2740151	0.24369578	2.5384623	21	7 29.7	18.5
30668 1227 *T–2*	15.1	X	227.66678	246.70544	171.41310	3.36992	0.1577289	0.28370551	2.2938105	21	6 22.9	18.5
30669 1234 *T–2*	15.7	X	139.54078	223.53976	229.49948	2.82946	0.0914043	0.28081171	2.3095422	21	5 3.9	18.8
30670 1283 *T–2*	14.1	X	19.69448	296.50613	190.74879	0.94477	0.1656465	0.17280252	3.1922924	21	1 12.9	17.7
30671 1314 *T–2*	15.3	X	41.10843	279.90090	5.95525	2.24700	0.1301955	0.24603151	2.5223706	21	9 24.2	18.0
30672 1346 *T–2*	13.9	X	355.54713	99.03513	56.19940	1.75325	0.1739679	0.17303133	3.1894776	21	1 6.3	17.5
30673 1409 *T–2*	15.8	X	176.16056	213.13857	153.00007	0.45420	0.1634778	0.17588952	3.1548308	21	3 8.8	20.8
30674 1455 *T–2*	14.3	X	134.69533	163.07605	211.82309	4.96490	0.0857221	0.21448367	2.7640118	21	1 23.0	18.3
30675 2042 *T–2*	14.5	X	125.33054	201.15001	175.59892	2.92774	0.1573016	0.21390298	2.7690120	21	1 24.8	18.5
30676 2201 *T–2*	15.2	X	53.53670	308.52438	198.35137	4.00772	0.0928099	0.27890002	2.3200839	21	3 13.0	17.5
30677 2231 *T–2*	14.9	X	163.83380	302.02556	12.52303	9.25617	0.1609020	0.21335692	2.7737345	21	—	—
30678 2265 *T–2*	16.4	X	244.30443	153.86117	181.70026	2.49702	0.1102029	0.28080866	2.3095589	21	3 25.5	19.7
30679 2303 *T–2*	15.8	X	189.09234	341.15156	89.30252	1.78880	0.1806032	0.28186209	2.3038009	21	5 31.7	19.4
30680 3029 *T–2*	15.9	X	86.19605	210.46494	128.17655	0.81873	0.0777450	0.21024640	2.8010252	21	—	—
30681 3084 *T–2*	15.2	X	45.21158	56.86830	174.56090	6.50388	0.0709652	0.28429622	2.2906320	21	7 4.1	17.8
30682 3209 *T–2*	13.7	X	264.75646	140.24166	138.08216	5.91577	0.1002737	0.17557839	3.1585566	21	2 18.9	18.4
30683 3211 *T–2*	13.7	X	305.26013	128.73984	72.60173	2.67004	0.1510966	0.17348035	3.1839716	21	—	—
30684 3237 *T–2*	14.5	X	118.92875	90.90988	21.66935	9.86002	0.2023788	0.17728398	3.1382658	21	5 22.6	19.5
30685 3243 *T–2*	16.4	X	34.17711	320.52726	103.87293	1.49644	0.0160917	0.31482465	2.1400482	21	—	—
30686 3288 *T–2*	14.0	X	306.69087	157.88168	68.41338	2.06286	0.1332656	0.17494567	3.1661678	21	1 31.0	18.4
30687 3347 *T–2*	15.5	X	47.16476	77.44293	88.75117	3.05700	0.0645821	0.28041358	2.3117277	21	3 31.4	17.8
30688 4194 *T–2*	14.8	X	159.21736	123.80534	145.89806	3.79154	0.1259871	0.21096690	2.7946441	21	—	—
30689 4318 *T–2*	15.5	X	92.91672	357.02129	143.75362	3.89833	0.0801768	0.28087051	2.3092199	21	5 8.4	18.1
30690 4633 *T–2*	15.0	X	127.77767	163.00454	111.44042	4.02443	0.0447303	0.20886955	2.8133210	21	12 9.1	19.1
30691 4810 *T–2*	14.8	X	217.17709	49.08993	163.99555	9.53162	0.1012209	0.21054042	2.7984168	21	12 28.3	19.0
30692 5040 *T–2*	15.0	X	7.37044	273.92438	343.81534	16.40600	0.1654736	0.24297654	2.5434692	21	6 8.7	17.8
30693 5069 *T–2*	14.1	X	88.24353	164.92506	238.25832	7.29308	0.2201556	0.21280308	2.7785450	21	1 17.6	17.4
30694 5112 *T–2*	13.5	X	59.48934	228.34015	260.00461	9.72504	0.1812117	0.17469015	3.1692544	21	3 22.7	17.5
30695 1020 *T–3*	15.4	X	268.04977	133.60120	243.09225	6.66586	0.1236892	0.28728346	2.2747253	21	6 17.1	18.1
30696 1110 *T–3*	14.8	X	116.06923	276.81317	267.01199	5.48679	0.0732311	0.28773495	2.2723452	21	8 7.1	17.7
30697 2137 *T–3*	14.5	X	190.06580	290.76937	210.85405	7.21920	0.1724746	0.24385978	2.5373240	21	8 30.1	18.7
30698 Hippokoon	12.0	X	297.64203	101.30193	216.26790	7.87687	0.0651311	0.08367984	5.1767297	21	5 26.7	18.7
30699 2356 *T–3*	14.9	X	149.68811	273.01313	223.07323	2.24642	0.0827752	0.28648107	2.2789708	21	7 14.8	18.1
30700 2367 *T–3*	15.6	X	142.77759	240.18954	254.11217	4.61927	0.1029171	0.28575597	2.2828244	21	7 5.4	18.6
30701 2381 *T–3*	16.0	X	335.19048	100.84570	247.16054	2.26634	0.1719072	0.28997179	2.2606442	21	8 26.9	17.4
30702 3042 *T–3*	14.9	X	19.51259	125.17975	47.69437	7.22159	0.1361917	0.28073348	2.3099713	21	2 20.2	17.0
30703 3101 *T–3*	14.6	X	233.19166	286.24676	39.42577	8.48579	0.0969203	0.28221159	2.3018984	21	3 5.3	18.0
30704 Phegeus	11.3	X	338.65650	283.12397	20.46311	14.88828	0.0397724	0.08195489	5.2491157	21	7 3.3	18.2
30705 Idaios	10.5	X	243.57851	341.87982	24.18488	19.76093	0.0603345	0.08321408	5.1960284	21	5 16.2	17.6
30706 4026 *T–3*	15.0	X	335.48461	296.05437	50.33807	8.29683	0.1750281	0.29005091	2.2602331	21	9 1.4	16.7
30707 4075 *T–3*	15.2	X	112.53680	46.07606	118.27258	2.63939	0.0944777	0.28611528	2.2809128	21	7 9.9	18.0
30708 Echepolos	11.8	X	203.79802	19.32162	29.44416	24.15772	0.0123383	0.08301981	5.2041310	21	5 24.3	19.0
30709 4107 *T–3*	15.4	X	124.33564	353.99061	151.74821	5.03646	0.0531518	0.28587357	2.2821983	21	6 23.4	18.3
30710 4137 *T–3*	14.8	X	81.41050	242.12557	100.76245	4.10763	0.1903419	0.20642405	2.8354969	21	—	—
30711 4186 *T–3*	15.8	X	84.40195	51.53345	131.90188	5.49733	0.0660827	0.28588095	2.2821590	21	6 23.8	18.5
30712 4207 *T–3*	14.1	X	299.43811	357.69782	134.92316	4.80443	0.1780725	0.20480702	2.8504023	21	12 29.8	17.2
30713 4216 *T–3*	15.8	X	140.66589	351.23170	119.79996	3.50760	0.1282203	0.28415682	2.2913811	21	6 3.7	19.1
30714 4282 *T–3*	15.2	X	88.94077	103.21937	180.37533	11.66439	0.0604323	0.22540886	2.6739630	21	11 12.0	19.1
30715 5034 *T–3*	13.4	X	303.55180	309.23136	170.36752	15.31080	0.0946274	0.20490793	2.8494664	21	12 26.4	17.2
30716 5107 *T–3*	15.4	X	356.32817	160.27302	102.12235	6.70486	0.1590656	0.28648195	2.2789661	21	5 22.2	17.2
30717 1937 *UD*	14.9	X	98.19019	314.75364	33.05417	8.97060	0.3347860	0.30875681	2.1679954	21	—	—
30718 Records	14.0	X	125.46083	54.64479	278.23039	5.29538	0.3152986	0.21403345	2.7678865	21	—	—
30719 Isserstedt	13.9	X	196.79371	104.89072	320.19344	15.61643	0.2126436	0.18202864	3.0834926	21	6 1.4	19.4
30720 1969 *GB*	13.3	X	72.64539	298.45734	269.44563	10.28122	0.0882153	0.17330456	3.1861243	21	7 13.5	17.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
30721 1975 ST_1	13.9	X	9.87573	157.88436	187.38776	10.38050	0.1134489	0.19300572	2.9654409	21	10 16.8	17.4
30722 Biblioran	13.8	X	190.19226	15.42640	356.05631	11.13802	0.3355558	0.21984838	2.7188622	21	3 24.8	19.0
30723 1978 RU_8	14.1	X	233.56062	224.61523	163.91391	10.93544	0.1935977	0.17920959	3.1157449	21	5 24.2	19.4
30724 Peterburgtrista	12.0	X	159.49744	46.60769	351.43544	21.32288	0.0418403	0.17438393	3.1729635	21	3 20.2	16.6
30725 Klimov	14.4	X	118.66701	163.96312	211.67198	2.61402	0.1886147	0.26111209	2.4242909	21	1 9.9	17.3
30726 1978 VK_7	16.3	X	79.93713	145.01549	223.74023	0.95594	0.1923711	0.25686599	2.4509342	21	—	—
30727 1979 MC_9	16.6	X	246.58306	78.06184	187.23248	2.19054	0.1788032	0.27274618	2.3548519	21	—	—
30728 1979 QD_2	14.9	X	250.98918	304.15930	29.26747	1.20768	0.2229063	0.18184899	3.0855230	21	3 30.5	19.9
30729 1980 TA	14.3	X	269.26615	277.67748	150.42876	5.59460	0.1342043	0.28765243	2.2727798	21	9 1.8	16.9
30730 1981 DL	14.5	X	131.55123	251.64447	232.96824	9.25474	0.0827760	0.17666084	3.1456413	21	6 9.8	19.2
30731 1981 EK_2	14.9	X	191.22782	28.97650	260.53265	7.90368	0.1286990	0.21530894	2.7569444	21	—	—
30732 1981 EQ_2	14.8	X	351.46764	278.31676	277.23269	5.94372	0.0616899	0.26955006	2.3734300	21	2 9.6	17.6
30733 1981 EJ_3	14.3	X	176.28606	129.79198	309.10806	10.86766	0.1697798	0.22676587	2.6632847	21	5 31.1	18.8
30734 1981 ES_3	13.9	X	244.60275	85.19244	307.83142	11.59637	0.1792071	0.22779170	2.6552828	21	6 5.9	18.1
30735 1981 EF_7	15.5	X	90.25144	210.38082	245.23926	5.63886	0.0751558	0.26980974	2.3719069	21	2 24.6	18.4
30736 1981 EU_7	15.4	X	182.18258	85.00112	291.02154	6.05417	0.1212611	0.27088934	2.3656007	21	3 10.9	19.0
30737 1981 ER_9	14.4	X	18.08721	235.86090	299.75357	4.94455	0.0731227	0.17197622	3.2025097	21	3 12.6	18.6
30738 1981 EO_{11}	15.4	X	63.72536	257.30134	283.14707	1.77042	0.1656975	0.27354265	2.3502786	21	6 3.5	17.8
30739 1981 EN_{14}	15.6	X	17.55327	256.94124	270.03531	1.99781	0.0717158	0.26943695	2.3740942	21	2 10.6	18.2
30740 1981 ET_{14}	14.5	X	151.38356	200.55952	267.18259	2.49516	0.1720367	0.17764458	3.1340174	21	6 15.7	19.4
30741 1981 EQ_{15}	15.3	X	189.72602	233.05610	228.06306	6.03333	0.1978616	0.22892616	2.6465033	21	7 10.0	19.8
30742 1981 EG_{17}	13.9	X	129.75366	302.76706	181.76283	21.60875	0.1979700	0.17745907	3.1362012	21	6 18.4	19.3
30743 1981 EQ_{17}	16.0	X	66.44490	296.49051	224.91540	1.62305	0.0996277	0.27250230	2.3562567	21	4 29.2	18.4
30744 1981 EN_{18}	15.0	X	117.49283	307.22757	199.03702	5.46335	0.1070859	0.17716932	3.1396197	21	6 23.5	19.8
30745 1981 EB_{22}	14.4	X	113.26678	40.28435	111.29464	2.19691	0.1187967	0.17708419	3.1406258	21	6 27.0	18.9
30746 1981 EG_{24}	15.1	X	222.86259	302.16451	312.03081	1.75697	0.1490964	0.21505901	2.7590800	21	—	—
30747 1981 EM_{25}	16.0	X	44.74042	349.64930	173.53687	3.39533	0.1092235	0.27128771	2.3632843	21	3 25.7	18.3
30748 1981 ES_{25}	15.1	X	237.21376	244.67256	22.46199	2.11001	0.1437677	0.26539604	2.3981321	21	—	—
30749 1981 ER_{26}	15.1	X	18.66931	209.13707	5.06047	7.34116	0.0511035	0.27252108	2.3561485	21	4 20.9	17.7
30750 1981 EY_{28}	14.2	X	190.42668	37.84181	334.83923	14.46152	0.2049266	0.22242002	2.6978645	21	3 20.6	18.9
30751 1981 EL_{29}	15.6	X	217.82348	67.56437	194.55784	5.46925	0.1071766	0.26412181	2.4058389	21	—	—
30752 1981 EQ_{33}	15.6	X	224.84430	2.91203	294.55991	5.19483	0.1332400	0.26695726	2.3887730	21	1 17.5	19.1
30753 1981 EL_{38}	15.1	X	73.78594	280.16515	191.10164	12.17415	0.1476443	0.22154638	2.7049523	21	3 13.8	18.4
30754 1981 EB_{39}	15.6	X	254.17114	79.02836	182.07174	8.80866	0.2168170	0.26576103	2.3959359	21	—	—
30755 1981 EO_{39}	15.1	X	185.72971	223.76703	159.93258	2.16061	0.0912776	0.22291769	2.6938476	21	4 1.0	19.1
30756 1981 ET_{39}	14.5	X	104.57874	115.93101	334.20226	4.24229	0.1621317	0.17399695	3.1776664	21	4 5.9	19.2
30757 1981 EB_{40}	14.9	X	149.32398	71.22379	34.50829	0.63468	0.1466503	0.17755520	3.1350691	21	6 9.9	19.8
30758 1981 EN_{41}	15.7	X	355.03313	55.62687	139.06092	2.17111	0.1060439	0.22077180	2.7112755	21	2 21.4	18.9
30759 1981 EV_{41}	15.0	X	66.88606	141.45163	326.96972	2.60303	0.0408533	0.22006246	2.7170987	21	2 16.5	18.3
30760 1981 EY_{41}	16.8	X	52.94556	313.03126	191.68918	1.63731	0.1486329	0.27096890	2.3651376	21	3 16.0	18.9
30761 1981 EF_{42}	15.2	X	231.62149	210.84602	41.49639	1.67573	0.1504999	0.21538095	2.7563298	21	—	—
30762 1981 ES_{42}	15.1	X	166.15206	80.19531	16.40891	1.93091	0.1680157	0.22712533	2.6604739	21	6 14.1	19.5
30763 1981 EJ_{47}	16.2	X	209.84412	65.75407	167.79234	6.17503	0.0867046	0.26207033	2.4183778	21	—	—
30764 1981 EK_{47}	13.7	X	42.56349	289.35411	236.45001	1.96170	0.1306190	0.12461256	3.9697349	21	4 17.7	18.6
30765 1981 EJ_{48}	15.7	X	162.10185	75.34843	359.44498	21.79358	0.3650465	0.27598383	2.3363987	21	5 11.7	20.5
30766 1981 UX_{22}	13.8	X	307.31726	323.88190	65.45608	9.82290	0.1164598	0.19401114	2.9551867	21	9 6.0	17.6
30767 Chriskraft	14.6	X	199.46837	347.52378	55.79043	26.80778	0.2902431	0.27634002	2.3343906	21	5 8.5	18.8
30768 1983 YK	12.7	X	91.09969	6.91874	160.17838	9.89400	0.0158966	0.16895015	3.2406365	21	6 7.2	17.4
30769 1984 ST_2	14.0	X	40.03135	18.96538	338.40051	6.53412	0.2066275	0.29763975	2.2216489	21	—	—
30770 1984 SL_4	15.4	X	36.83501	328.31813	338.32973	4.41012	0.2210590	0.29480443	2.2358709	21	11 6.9	17.9
30771 1986 PO_2	14.7	X	150.75105	235.45026	140.51858	8.29235	0.3422935	0.26798895	2.3826383	21	3 3.1	18.7
30772 1986 RJ_1	14.8	X	168.38566	355.86182	342.89234	5.15163	0.2486849	0.26777184	2.3839260	21	1 24.2	18.7
30773 Schelde	14.0	X	184.49907	66.73772	332.90452	25.57480	0.2274218	0.27280753	2.3544988	21	4 4.4	18.5
30774 1987 BU_1	15.0	X	76.31630	212.43305	241.24886	3.42565	0.1767248	0.26180277	2.4200252	21	2 16.8	17.3
30775 Lattu	16.0	X	102.40151	13.10495	355.06110	14.24688	0.4623543	0.21191933	2.7862644	21	2 4.4	20.2
30776 1987 QY	15.1	X	214.18782	210.99267	173.71573	24.93219	0.2467295	0.28071209	2.3100886	21	4 27.2	19.4
30777 1987 SB_3	15.0	X	27.89176	310.23108	32.66125	6.06597	0.1906119	0.29305350	2.2447679	21	12 10.9	17.6
30778 Döblin	14.2	X	158.61374	11.51284	40.86631	8.20612	0.0978488	0.22035016	2.7147330	21	4 10.1	18.2
30779 Sankt-Stephan	14.8	X	213.32886	189.35895	196.03805	24.70978	0.1928591	0.28070137	2.3101474	21	4 26.3	18.6
30780 1988 CA_2	14.7	X	146.57735	334.65840	124.16668	7.10616	0.0594812	0.27575229	2.3377064	21	5 20.1	17.8
30781 1988 CR_2	14.5	X	222.76045	247.96507	115.01721	6.52064	0.1246366	0.27492128	2.3424149	21	4 10.7	18.0
30782 1988 CC_4	14.3	X	121.12976	310.83743	244.13031	7.72398	0.0420925	0.18979569	2.9987838	21	8 18.3	18.8
30783 1988 CO_4	14.7	X	15.73124	258.93568	266.87911	7.51578	0.0560625	0.26805466	2.3822489	21	2 5.4	17.4
30784 1988 PO	13.6	X	10.56267	94.37704	266.58600	10.93525	0.2029080	0.24201892	2.5501741	21	11 29.0	16.3
30785 Greeley	16.5	X	26.57261	308.94532	13.38063	5.40218	0.3442053	0.30186382	2.2008748	21	12 6.8	19.1
30786 Karkoschka	17.1	X	225.09477	214.12615	151.33943	8.28685	0.4462045	0.23013677	2.6372140	21	4 8.2	22.4
30787 1988 RC	13.7	X	91.38320	56.45001	248.31527	13.26025	0.0748310	0.24454538	2.5325794	21	12 13.7	17.2
30788 Angekauffmann	13.4	X	210.87838	56.93044	12.72609	26.81281	0.1994342	0.23128650	2.6284670	21	6 16.4	18.3
30789 1988 RB_6	14.4	X	16.17699	162.03396	162.34583	12.63301	0.2555889	0.24066973	2.5596960	21	10 30.8	17.1
30790 1988 RT_{11}	15.0	X	287.72750	46.85907	16.24274	1.37578	0.1284639	0.23933523	2.5692023	21	9 19.3	18.0
30791 1988 RY_{11}	12.1	X	218.25684	232.73562	164.50618	24.68343	0.0612682	0.08264140	5.2200054	21	6 2.6	19.5
30792 1988 RP_{12}	12.4	X	40.69532	64.19220	157.46640	4.36170	0.0356839	0.08251926	5.2251550	21	6 14.7	19.2
30793 1988 SJ_3	12.1	X	232.27992	292.48145	88.82972	20.99500	0.0603685	0.08228225	5.2351840	21	5 29.8	19.3
30794 1988 TR_1	14.2	X	258.49211	181.40237	194.76030	13.27633	0.1753673	0.23244468	2.6197286	21	5 31.7	18.3
30795 1989 AR_5	14.4	X	194.70119	274.80625	125.27090	4.49876	0.1118812	0.22296960	2.6934295	21	5 2.5	18.6
30796 1989 CU_2	14.6	X	61.66436	270.68836	201.07062	8.81806	0.1002696	0.21641824	2.7475155	21	2 16.8	18.0
30797 Chimborazo	14.4	X	127.84645	193.27026	292.98663	12.53049	0.1418914	0.22323015	2.6913333	21	6 12.8	18.6
30798 Graubünden	13.9	X	86.44225	194.90637	323.34286	7.83739	0.1302788	0.22161775	2.7043716	21	6 2.1	17.6
30799 1989 LH	14.4	X	241.06866	13.22226	225.19888	10.01499	0.2153331	0.26516107	2.3995485	21	—	—
30800 1989 ST	14.6	X	128.87464	23.09493	292.39486	4.48806	0.2751802	0.28763199	2.2728874	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
30801 1989 SS_1	15.1	X	322.74957	258.46981	61.08609	3.71988	0.2650006	0.24221632	2.5487884	21	5 26.6	17.3
30802 1989 SH_3	14.8	X	98.40342	272.33041	97.78676	1.90548	0.2278798	0.25635047	2.4542189	21	—	—
30803 1989 SG_{14}	14.6	X	356.00119	5.34534	328.37474	13.79502	0.1688442	0.24475987	2.5310997	21	9 11.9	17.1
30804 1989 TO_{14}	13.8	X	192.45200	358.43791	66.34946	2.04631	0.1631879	0.17589875	3.1547205	21	5 30.8	18.9
30805 1989 UO_2	15.3	X	326.33330	158.00962	211.35303	6.05715	0.2946451	0.24491492	2.5300313	21	8 18.7	17.1
30806 1989 UP_5	12.7	X	69.47646	93.31232	98.59210	2.08352	0.0341276	0.08215650	5.2405248	21	6 14.6	19.6
30807 1989 UQ_5	12.0	X	352.10445	120.15425	170.18944	4.69771	0.0587581	0.08332518	5.1914085	21	7 2.9	18.6
30808 1989 YA_2	14.1	X	296.64428	201.80744	279.86071	5.33391	0.1828445	0.24549075	2.5260734	21	12 22.5	16.1
30809 1990 EO_8	13.3	X	357.30393	179.68944	349.20590	9.81852	0.0812554	0.22006747	2.7170574	21	1 27.4	16.7
30810 1990 FM	13.5	X	297.67795	150.45462	82.49949	17.94602	0.2847251	0.21801284	2.7341017	21	1 2.3	17.9
30811 1990 OD_2	14.9	X	4.97547	283.89246	47.43209	6.70483	0.1845967	0.28789769	2.2714888	21	10 15.1	16.6
30812 1990 OZ_4	15.4	X	27.16578	57.20456	228.62693	4.94901	0.1987184	0.28786141	2.2716796	21	9 14.7	17.4
30813 1990 QT	14.5	X	326.04785	353.59475	351.55811	6.17837	0.1669373	0.28531804	2.2851597	21	8 3.1	16.4
30814 1990 QW	14.6	X	330.72386	342.17039	347.80803	7.50658	0.1501844	0.28474027	2.2882499	21	7 20.8	16.6
30815 1990 QH_2	14.9	X	242.22156	17.18356	356.31652	4.54960	0.1730857	0.27909966	2.3189774	21	5 6.3	18.3
30816 1990 QA_6	14.7	X	323.72407	18.95797	350.34264	4.21466	0.1798585	0.28621717	2.2803715	21	9 5.7	16.1
30817 1990 QN_9	14.4	X	275.66910	324.48696	129.07969	4.33683	0.1102880	0.28914037	2.2649758	21	10 26.3	16.7
30818 1990 RH_2	15.1	X	207.80431	39.93328	343.90509	6.62230	0.1105431	0.27647614	2.3336243	21	4 16.6	18.5
30819 1990 RL_2	14.6	X	236.48227	139.67018	174.64852	9.99892	0.2398783	0.27528137	2.3403717	21	2 12.8	18.7
30820 1990 RU_2	15.0	X	250.60983	330.56519	348.71649	6.07263	0.1716427	0.27580833	2.3373897	21	3 7.5	18.3
30821 Chernetenko	14.4	X	299.93538	53.86685	270.04095	4.27681	0.2038081	0.28015337	2.3131590	21	5 1.9	17.2
30822 1990 SX_5	15.4	X	253.74801	343.13801	50.99356	2.38027	0.1609970	0.28080363	2.3095865	21	6 18.7	18.5
30823 1990 SY_{15}	14.5	X	325.03460	161.99505	194.33775	5.96782	0.1333703	0.28558078	2.2837579	21	8 19.1	16.5
30824 1990 TD	14.2	X	359.99645	74.84264	254.12820	5.00859	0.1809428	0.28680065	2.2772775	21	9 23.2	15.9
30825 1990 TG_1	14.7	X	89.24763	33.70500	205.02126	8.73915	0.6809664	0.25920379	2.4361750	21	11 5.8	20.0
30826 Coulomb	13.6	X	280.17810	50.55621	346.01900	5.64846	0.1947528	0.18637514	3.0353636	21	7 21.2	17.8
30827 Lautenschläger	15.2	X	36.92123	270.97242	241.51086	3.96698	0.1398276	0.27069300	2.3667444	21	2 20.3	17.3
30828 Bethe	15.3	X	180.20944	237.49473	228.60168	2.95673	0.1257150	0.27831362	2.3233416	21	7 9.1	18.7
30829 Wolfwacker	14.6	X	339.71760	345.24906	325.72754	4.36258	0.1484952	0.28202812	2.3028966	21	7 6.8	16.4
30830 Jahn	14.6	X	150.15773	175.64189	255.72247	4.67644	0.2142394	0.27181181	2.3602454	21	4 27.8	18.2
30831 1990 TO_{14}	15.3	X	125.45205	124.76593	212.56267	20.74342	0.0997511	0.36058243	1.9549381	21	—	—
30832 Urbaincreve	14.6	X	136.29564	13.83473	123.26251	5.91179	0.1252688	0.27659032	2.3329821	21	7 3.9	18.0
30833 1990 VM_4	15.4	X	118.61485	268.11487	166.47117	6.70019	0.1108442	0.26933009	2.3747222	21	3 17.4	18.2
30834 1990 VR_6	14.6	X	194.58055	302.19987	135.97768	6.83387	0.0760282	0.27608747	2.3358140	21	6 18.4	17.8
30835 Waterloo	15.1	X	160.76085	186.75468	175.17034	5.28421	0.1379987	0.26728346	2.3868291	21	2 2.4	18.6
30836 Schnittke	15.2	X	292.49468	218.49290	303.66453	4.19247	0.1471801	0.25537568	2.4604603	21	—	—
30837 Steinheil	13.7	X	203.49144	330.13893	130.02007	15.36091	0.1445203	0.17734336	3.1375652	21	7 23.2	18.8
30838 1991 CM_1	14.8	X	353.67943	167.57555	294.59934	3.05218	0.1403395	0.25571838	2.4582615	21	—	—
30839 1991 GH_1	13.7	X	25.64720	83.58593	73.11491	3.74928	0.1367731	0.25993391	2.4316110	21	2 11.1	15.9
30840 Jackalice	13.8	X	6.54341	76.33773	120.48268	12.24198	0.2027152	0.22785296	2.6548069	21	3 10.1	16.4
30841 1991 GA_3	14.6	X	289.66385	330.53944	191.99400	6.16647	0.1051702	0.25183662	2.4834578	21	—	—
30842 1991 GO_7	15.5	X	29.26413	12.52893	225.09192	8.12625	0.1366150	0.23313648	2.6145436	21	6 23.6	18.4
30843 1991 JK_1	14.1	X	245.28607	200.39895	89.25542	16.83499	0.3242840	0.22081977	2.7108829	21	1 27.7	19.2
30844 Hukeller	13.9	X	328.80919	109.32285	122.59594	27.38475	0.2555507	0.22550874	2.6731734	21	2 7.8	17.3
30845 1991 PQ_3	14.2	X	185.51632	273.39629	355.15350	3.34218	0.0591739	0.21106583	2.7937707	21	—	—
30846 1991 PJ_{17}	15.4	X	169.42889	64.27873	254.97946	2.00631	0.1416463	0.31179892	2.1538708	21	—	—
30847 Lampert	12.8	X	207.35950	69.59812	0.40951	10.88648	0.0965139	0.18927357	3.0042961	21	6 22.3	17.6
30848 1991 RZ_{19}	13.7	X	154.95971	14.22621	337.19851	8.67615	0.1621760	0.21228857	2.7830327	21	1 28.6	18.0
30849 1991 RE_{20}	13.3	X	83.62675	107.57403	343.96103	11.27884	0.0763645	0.21411193	2.7672101	21	2 24.4	16.9
30850 Vonsiemens	13.7	X	351.83722	201.80733	349.13352	9.10083	0.1935182	0.21450312	2.7638448	21	2 3.9	16.9
30851 Reisfelder	15.1	X	324.30064	262.89559	266.51578	2.68080	0.0384179	0.30977794	2.1632285	21	—	—
30852 Debye	15.2	X	212.42064	310.85994	299.30140	2.32572	0.1557490	0.30847672	2.1693075	21	—	—
30853 1991 UH_3	14.0	X	25.03029	65.70617	22.88383	8.59093	0.2878912	0.20415916	2.8564292	21	—	—
30854 1991 VB	17.3	X	312.84008	135.06444	256.10781	6.43111	0.4115677	0.29440069	2.2379145	21	7 28.2	18.6
30855 1991 VQ_9	16.6	X	274.00756	198.38573	133.60438	2.01256	0.1247845	0.28575648	2.2828217	21	4 23.1	19.6
30856 1991 XE	14.1	X	73.12684	269.77984	79.21070	26.65038	0.1080788	0.39916845	1.8268319	21	—	—
30857 Parsec	15.0	X	2.73750	225.50311	207.23068	3.49300	0.1600613	0.29870197	2.2163788	21	—	—
30858 1992 AU_1	14.2	X	207.85401	46.12521	87.56680	24.64622	0.2533664	0.28767762	2.2726471	21	9 18.0	18.5
30859 1992 BM	14.6	X	309.86787	77.58819	349.10774	5.65671	0.1617134	0.29216861	2.2492981	21	11 9.7	16.4
30860 1992 DA_4	15.7	X	311.06020	182.36504	339.33887	2.18275	0.1487202	0.26439306	2.4041931	21	—	—
30861 1992 DS_5	14.4	X	85.66513	79.38680	96.19411	2.01766	0.1123961	0.17640107	3.1487286	21	6 23.7	18.9
30862 1992 DF_{10}	14.3	X	311.52880	178.83751	214.32257	4.96625	0.1589165	0.28755494	2.2732934	21	9 18.1	16.2
30863 1992 EA_4	15.2	X	239.72427	77.65735	123.27763	3.32620	0.1455857	0.26079177	2.4262756	21	—	—
30864 1992 EE_6	15.0	X	139.04568	359.75060	127.90134	7.14319	0.0451184	0.27892217	2.3199610	21	6 16.8	18.0
30865 1992 EH_8	14.7	X	71.95841	125.60988	340.51491	9.60647	0.1408559	0.17101648	3.2144801	21	3 12.3	18.8
30866 1992 EN_8	13.7	X	131.45046	69.30055	7.29825	9.23950	0.1681228	0.17463741	3.1698925	21	4 18.3	18.6
30867 1992 EL_9	14.0	X	136.02342	334.77259	112.74198	5.67367	0.1424268	0.17541130	3.1605622	21	5 7.5	18.9
30868 1992 ET_{10}	14.1	X	216.17188	354.68918	89.00887	1.58556	0.2318637	0.18291966	3.0734711	21	7 10.3	19.3
30869 1992 EU_{11}	14.6	X	311.68081	271.74305	337.15279	6.48274	0.1479282	0.27077715	2.3662541	21	2 15.1	17.4
30870 1992 EW_{15}	14.1	X	161.92484	273.91685	201.30980	1.88723	0.0759135	0.17876279	3.1209344	21	6 30.7	18.8
30871 1992 EG_{16}	14.7	X	200.45752	294.15787	177.83698	1.71512	0.2044153	0.18200474	3.0837625	21	8 1.3	19.9
30872 1992 EM_{17}	14.1	X	52.27795	86.02345	128.19944	5.06267	0.1134354	0.27782122	2.3260861	21	6 26.8	16.4
30873 1992 EN_{17}	15.4	X	88.49700	32.65177	64.43010	2.93814	0.1704640	0.27295038	2.3536773	21	3 15.3	17.9
30874 1992 EA_{23}	15.5	X	27.42615	50.89149	36.02618	6.45852	0.1097130	0.26541945	2.3979910	21	—	—
30875 1992 EX_{25}	13.8	X	104.64413	41.06977	100.34378	2.40562	0.1054734	0.17597523	3.1538063	21	6 2.8	18.4
30876 1992 EM_{27}	14.4	X	98.94031	180.20385	335.27964	7.77607	0.1033302	0.17672377	3.1448944	21	6 12.8	19.0
30877 1992 ES_{30}	13.8	X	146.44469	266.81635	168.30658	21.57061	0.0804661	0.17444022	3.1722809	21	4 29.9	18.8
30878 1992 GQ	13.4	X	123.63818	68.97255	99.56317	9.32360	0.1490093	0.17691828	3.1425889	21	8 2.4	18.4
30879 Hiroshikanai	13.4	X	15.87799	173.13121	66.03040	15.19033	0.1266986	0.23836303	2.5761834	21	5 29.9	15.9
30880 1992 PC_2	13.9	X	99.39388	82.55250	217.42404	7.26576	0.0950219	0.24671140	2.5177344	21	12 18.8	17.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
30881 Robertstevenson	15.4	X	25.62345	317.67860	326.30624	1.63181	0.1791740	0.23739640	2.5831719	21	9 1.4	18.1
30882 Tomhenning	13.4	X	1.41765	120.83731	170.21692	13.13719	0.1597500	0.23456643	2.6039070	21	7 19.1	16.1
30883 de Broglie	15.1	X	4.88159	53.45782	224.71530	1.15152	0.1675834	0.23398272	2.6082359	21	7 8.3	17.4
30884 1992 SL_{23}	14.0	X	260.13702	33.65747	31.11801	13.97418	0.1462427	0.23316974	2.6142950	21	8 16.5	17.9
30885 1992 UU_4	13.6	X	216.77567	179.41739	236.89176	13.69355	0.1835133	0.22750939	2.6574790	21	6 8.9	17.9
30886 1992 WJ_1	13.5	X	213.47041	294.88091	71.49892	14.00942	0.2097183	0.22381370	2.6866532	21	4 11.6	18.3
30887 1992 WL_2	13.3	X	74.75081	126.61954	56.35596	14.05246	0.1276628	0.22449945	2.6811794	21	6 19.0	16.8
30888 Okitsumisaki	13.9	X	333.95665	118.32825	323.03757	4.10624	0.2367452	0.20284690	2.8687352	21	12 30.2	16.5
30889 1993 FU_6	14.1	X	207.41348	107.88998	79.59880	3.32981	0.0425365	0.19511930	2.9439871	21	11 20.9	18.4
30890 1993 FB_9	13.7	X	261.66668	231.69582	79.08421	3.53690	0.1517169	0.17549314	3.1595795	21	3 22.1	18.5
30891 1993 FV_{14}	14.8	X	0.51243	191.09843	135.60577	6.77049	0.1910575	0.29086288	2.2560247	21	9 29.6	16.4
30892 1993 FR_{18}	14.0	X	274.11356	289.55949	39.92014	10.14454	0.1494289	0.17881895	3.1202808	21	4 25.4	18.7
30893 1993 FD_{19}	15.1	X	136.34964	70.00298	137.71776	6.65169	0.0867841	0.29352125	2.2423824	21	10 10.6	18.2
30894 1993 FD_{20}	15.4	X	331.74064	18.01604	56.56425	6.07739	0.0895445	0.30076946	2.2062102	21	—	—
30895 1993 FH_{23}	15.5	X	335.52124	98.22642	212.79700	4.80495	0.1797341	0.28617304	2.2806058	21	6 22.3	17.3
30896 1993 FX_{26}	14.7	X	170.06678	246.42701	295.86599	2.79151	0.0669947	0.19007933	2.9957999	21	9 30.2	19.3
30897 1993 FG_{29}	14.2	X	289.91774	79.84910	331.59675	8.80879	0.1183965	0.18976560	2.9991008	21	9 2.0	18.2
30898 1993 FJ_{29}	14.9	X	107.78837	50.65272	308.32142	4.54660	0.1677936	0.30571507	2.1823521	21	—	—
30899 1993 FL_{32}	14.5	X	238.81637	87.18677	328.09519	8.61146	0.0279473	0.18473356	3.0533191	21	7 17.5	18.8
30900 1993 FM_{34}	14.3	X	252.37415	248.03450	67.27571	6.43509	0.1578044	0.17503999	3.1650302	21	3 19.4	19.3
30901 1993 FU_{34}	15.7	X	141.95206	228.41927	153.34899	3.25266	0.0886947	0.31136009	2.1558941	21	1 22.7	18.2
30902 1993 FF_{35}	13.6	X	296.10511	351.50549	131.08750	2.47777	0.0913371	0.19742954	2.9209758	21	12 17.5	17.2
30903 1993 FU_{37}	15.7	X	93.11807	149.34424	24.84172	4.62410	0.0737684	0.28645888	2.2790885	21	6 24.3	18.5
30904 1993 FV_{41}	14.6	X	40.93936	339.04801	190.94351	3.55396	0.0402675	0.17653988	3.1470779	21	4 7.4	18.7
30905 1993 FC_{42}	13.3	X	47.22762	263.61283	10.28706	9.68834	0.0590061	0.18625639	3.0366537	21	9 3.4	17.4
30906 1993 FV_{44}	13.4	X	166.47625	286.04542	43.74532	0.98160	0.1275294	0.16823316	3.2498375	21	1 16.9	18.3
30907 1993 FD_{47}	14.8	X	38.04765	55.95059	156.15270	1.41573	0.0967280	0.17984885	3.1083573	21	6 1.4	18.7
30908 1993 FW_{47}	14.0	X	341.53810	193.46477	12.14909	5.27898	0.0944741	0.17371965	3.1810470	21	2 27.2	18.0
30909 1993 FZ_{49}	15.9	X	11.39844	283.49415	346.92505	2.53218	0.1461698	0.28668263	2.2779025	21	7 10.7	17.6
30910 1993 FP_{52}	16.0	X	274.06301	205.66679	43.95499	2.75184	0.1875364	0.27487330	2.3426874	21	1 1.0	19.6
30911 1993 FY_{75}	15.9	X	357.72060	91.35805	210.33791	5.17913	0.1839017	0.28729599	2.2746592	21	7 31.5	17.5
30912 1993 FP_{76}	14.8	X	68.51166	62.37786	201.99535	1.70574	0.0482769	0.18724947	3.0259075	21	9 14.3	18.8
30913 1993 FO_{77}	14.4	X	323.33317	102.82134	196.53191	22.49740	0.0755397	0.18022260	3.1040584	21	6 1.4	18.9
30914 1993 FV_{82}	15.6	X	57.02088	303.52164	81.93134	2.85816	0.2017276	0.30424344	2.1893838	21	—	—
30915 1993 GF_1	13.1	X	54.52930	241.01128	37.01228	12.02523	0.0803921	0.18624932	3.0367305	21	9 23.6	17.3
30916 1993 GN_1	15.0	X	225.59418	286.80243	258.00944	4.11818	0.1242102	0.29902494	2.2147826	21	12 17.8	17.6
30917 Moehorgan	14.7	X	255.97515	263.38492	34.06290	25.85345	0.1244294	0.17391742	3.1786350	21	3 15.8	19.9
30918 1993 KV_2	15.4	X	66.99652	119.74828	99.58106	7.23545	0.0470332	0.28465969	2.2886817	21	7 18.2	17.9
30919 1993 NV_1	15.6	X	132.12589	38.31814	301.90344	3.01009	0.2265311	0.26256627	2.4153316	21	—	—
30920 1993 OV_4	15.1	X	354.33361	308.91029	289.16815	2.90679	0.0607005	0.27623748	2.3349683	21	4 15.7	17.8
30921 1993 OG_6	15.4	X	78.26767	57.01751	290.69149	1.50710	0.2090523	0.25772034	2.4455145	21	—	—
30922 1993 OE_{13}	14.5	X	13.76045	162.88745	121.65253	5.54441	0.1017015	0.28261421	2.2997117	21	8 4.7	16.4
30923 1993 QU_4	14.3	X	329.06313	153.48786	159.42303	11.13431	0.1103101	0.24216665	2.5491369	21	6 22.9	17.4
30924 1993 RC_2	14.7	X	274.52581	37.17683	3.80017	13.32768	0.2843851	0.24209510	2.5496392	21	7 8.8	18.6
30925 1993 RD_2	13.2	X	244.00978	153.78334	174.65823	15.34184	0.1218371	0.23433510	2.6056205	21	3 20.8	17.0
30926 1993 TL_{13}	14.5	X	179.14635	248.55601	47.88784	9.13045	0.1935224	0.26017736	2.4300938	21	—	—
30927 1993 TF_{17}	14.6	X	198.22893	78.62538	191.74959	13.14890	0.2633036	0.26045653	2.4283571	21	—	—
30928 Jefferson	13.7	X	92.01467	69.32235	32.58748	16.27929	0.1634916	0.22831541	2.6512208	21	4 4.8	17.1
30929 1993 TR_{38}	13.7	X	62.26242	181.89967	44.85462	13.77431	0.1070947	0.23944288	2.5684321	21	8 4.7	17.2
30930 1993 UF	14.7	X	42.73644	218.97981	131.74308	15.26254	0.1832374	0.25178783	2.4837786	21	12 31.5	18.2
30931 1993 UJ_5	15.2	X	187.88159	16.00629	106.98261	4.50910	0.1318132	0.23925820	2.5697537	21	8 8.8	19.1
30932 1993 UO_5	14.6	X	159.34705	48.97037	99.35650	7.19526	0.2906369	0.23733306	2.5836314	21	8 16.7	19.3
30933 Grillparzer	14.6	X	355.12877	201.23265	85.62475	5.31052	0.1745616	0.24014967	2.5633902	21	6 29.9	16.8
30934 Bakerhansen	15.6	X	262.31830	119.56646	246.94801	20.67417	0.0400928	0.37865771	1.8922195	21	6 3.0	17.3
30935 Davasobel	14.6	X	119.26207	230.75725	294.13345	27.81554	0.1174238	0.37523071	1.9037232	21	7 22.1	16.7
30936 Basra	13.4	X	13.21023	72.39183	140.57439	12.79351	0.1238316	0.22468683	2.6796884	21	4 22.9	16.5
30937 Bashkirtseff	14.7	X	239.27220	246.08829	217.54418	3.04867	0.1167515	0.23767415	2.5811590	21	9 7.7	18.3
30938 Montmartre	14.4	X	91.22237	280.70261	287.66956	11.70100	0.1106870	0.23163538	2.6258271	21	8 10.3	18.1
30939 Samaritaine	13.9	X	344.26376	108.17959	135.35664	13.54898	0.1461313	0.22453667	2.6808830	21	4 12.1	17.1
30940 1994 CL_2	14.9	X	204.82121	337.81156	118.15309	4.30622	0.1600841	0.23262768	2.6183546	21	7 19.6	19.0
30941 1994 CJ_{11}	14.1	X	97.19200	301.58915	148.06578	22.08991	0.0977685	0.22010657	2.7167356	21	3 16.7	17.8
30942 Helicaon	11.4	X	227.38393	270.71836	143.52694	22.86297	0.0649118	0.08316816	5.1979408	21	6 29.2	18.7
30943 1994 ED_2	13.6	X	337.14557	225.73477	337.65153	7.75318	0.1788924	0.21580553	2.7527135	21	1 28.7	16.9
30944 1994 GD_1	13.9	X	148.03022	142.20972	67.42056	10.90970	0.2256900	0.19596517	2.9355093	21	10 19.4	19.1
30945 1994 GW_9	13.4	X	296.88706	280.95238	33.31437	10.15866	0.0844105	0.18373079	3.0644186	21	5 11.2	17.6
30946 1994 HB	17.0	X	116.88324	128.49237	188.99909	1.98265	0.2119386	0.31037606	2.1604484	21	—	—
30947 1994 JW	13.6	X	160.31324	30.56232	65.39105	13.59793	0.1395565	0.22393229	2.6857046	21	6 6.1	17.7
30948 1994 PU	15.2	X	34.18777	67.16685	330.68720	3.56379	0.1325734	0.30156537	2.2023267	21	—	—
30949 1994 PF_9	13.9	X	182.52558	310.90210	143.36700	1.54372	0.1838452	0.17529598	3.1619482	21	6 26.7	19.1
30950 1994 PJ_9	15.4	X	187.35955	188.29077	324.38042	4.44093	0.0472924	0.29402184	2.2398365	21	9 22.7	18.4
30951 1994 PL_{13}	15.4	X	322.66750	201.56941	325.24920	6.27418	0.0150361	0.30921838	2.1658374	21	—	—
30952 1994 PX_{15}	15.7	X	314.92407	303.13652	159.35864	2.21609	0.1290795	0.30053689	2.2073482	21	—	—
30953 1994 PZ_{17}	13.5	X	202.70280	8.33745	328.59259	10.14899	0.0617513	0.16749877	3.2593297	21	2 25.8	18.3
30954 1994 PM_{28}	16.3	X	80.98272	240.27354	20.54206	3.89036	0.0823725	0.29538624	2.2329339	21	10 13.4	18.8
30955 Weiser	13.0	X	166.18708	94.88395	350.83829	6.89076	0.1736711	0.17316331	3.1878568	21	6 1.1	18.4
30956 1994 QP	13.3	X	270.09403	260.56399	65.71654	22.74732	0.1860479	0.17425082	3.1745792	21	4 22.2	18.4
30957 1994 SQ_7	15.8	X	84.09027	117.04749	86.23099	1.09815	0.1404187	0.28667963	2.2779184	21	8 4.5	18.4
30958 1994 TV_3	14.6	X	325.29390	104.98987	193.64001	22.04927	0.0798759	0.35754562	1.9659920	21	5 23.7	16.7
30959 1994 TG_9	15.4	X	42.21124	11.44479	201.14909	6.36689	0.1254260	0.28159297	2.3052685	21	6 7.6	17.6
30960 1994 UV_2	15.6	X	222.77949	53.75410	12.32262	2.79468	0.1897648	0.28340088	2.2954539	21	6 26.3	19.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
30961 1994 VD_1	14.9	X	221.66516	33.81320	68.14062	7.65623	0.0802658	0.28594376	2.2818248	21	8 28.1	18.0
30962 1994 VH_7	14.6	X	262.38443	68.01940	45.15440	7.12495	0.1203288	0.29026342	2.2591298	21	10 30.5	17.0
30963 Mount Banzan	14.3	X	192.11714	295.62715	79.47177	22.93325	0.3016325	0.27615611	2.3354269	21	4 9.2	19.0
30964 1994 WW_7	15.3	X	84.32899	27.61724	161.97302	6.08991	0.1101509	0.28029601	2.3123741	21	7 9.7	18.1
30965 1994 XW	14.8	X	290.76502	304.76915	89.99192	7.07498	0.1787513	0.28716219	2.2753657	21	8 10.9	17.1
30966 1994 XN_1	15.8	X	341.58997	118.18607	47.33786	4.41756	0.0734644	0.26769082	2.3844071	21	—	—
30967 1994 XX_4	14.5	X	236.86493	107.16213	275.40305	5.98606	0.1301774	0.27823091	2.3238020	21	5 16.9	17.8
30968 1995 AM_1	14.2	X	258.25416	314.00500	109.00335	23.49360	0.2617229	0.28373157	2.2936700	21	7 21.2	17.4
30969 1995 BP_2	14.8	X	173.74263	293.31068	187.35596	21.14307	0.2791722	0.27943903	2.3170994	21	7 19.6	19.4
30970 1995 BP_3	14.2	X	99.42387	70.78658	149.83234	11.66727	0.1222923	0.24064860	2.5598459	21	9 12.6	17.9
30971 1995 DJ	14.0	X	65.51142	56.59982	337.25662	7.79696	0.2807495	0.25812282	2.4429717	21	—	—
30972 1995 DE_8	15.5	X	117.86733	341.78117	156.56300	3.82377	0.0676092	0.23439393	2.6051844	21	6 8.1	19.0
30973 1995 DS_8	15.2	X	2.19761	142.01017	4.83918	2.28549	0.1537122	0.26067635	2.4269917	21	—	—
30974 1995 EL	14.1	X	173.02329	209.33624	52.09596	8.82950	0.1821796	0.21213241	2.7843983	21	—	—
30975 1995 EM	14.4	X	63.96844	67.03931	21.15102	6.83438	0.0996485	0.26190653	2.4193860	21	1 12.1	17.0
30976 1995 FH_1	13.9	X	76.61645	211.52302	5.79164	12.96363	0.0969566	0.23509223	2.6000231	21	8 10.3	17.5
30977 1995 JJ_1	14.4	X	310.24316	114.41791	117.66895	3.37741	0.1486809	0.25904090	2.4371962	21	1 23.8	17.7
30978 1995 MO_5	14.3	X	87.82648	209.85322	160.97402	8.15050	0.1268382	0.21033940	2.8001994	21	—	—
30979 1995 OB_5	14.4	X	131.40186	219.43909	180.48150	0.42279	0.2319754	0.17220441	3.1996799	21	3 14.3	19.5
30980 1995 QU_3	13.5	X	204.02814	106.91462	296.54188	23.75739	0.3868341	0.17753953	3.1352536	21	5 5.2	19.9
30981 1995 SJ_4	13.2	X	237.01075	91.60143	257.96978	20.16618	0.1454968	0.17761115	3.1344107	21	4 5.2	18.6
30982 1995 SP_5	13.7	X	185.59789	25.70991	55.26197	1.98572	0.1779348	0.17654838	3.1469770	21	6 13.2	19.0
30983 1995 SE_{16}	14.5	X	104.18078	114.96042	348.13136	4.53932	0.1087770	0.17450346	3.1715144	21	4 14.2	19.1
30984 1995 SW_{19}	14.3	X	60.54729	106.74632	42.04495	1.04127	0.1447076	0.17180689	3.2046136	21	4 20.4	18.3
30985 1995 SM_{24}	14.4	X	40.37797	167.57816	53.85490	2.76161	0.0875423	0.18048986	3.1009935	21	6 16.1	18.2
30986 1995 SC_{28}	13.7	X	212.02330	93.33227	233.93311	9.33356	0.0966274	0.21273068	2.7791754	21	2 14.5	18.2
30987 1995 SO_{34}	14.9	X	150.60886	295.37108	103.00588	0.74889	0.2033030	0.17268068	3.1937939	21	3 27.1	20.0
30988 1995 SE_{36}	14.4	X	282.29375	130.77647	166.09938	2.33573	0.1935645	0.17853817	3.1235515	21	3 20.0	19.0
30989 1995 SZ_{43}	13.7	X	309.40653	57.24966	200.40065	11.28765	0.1686462	0.17488398	3.1669123	21	3 4.9	18.2
30990 1995 ST_{48}	14.5	X	148.37463	119.53920	97.52707	2.45122	0.1596306	0.19212738	2.9744719	21	10 23.8	19.3
30991 Minenze	14.4	X	251.03002	282.02625	208.28041	1.35181	0.0625421	0.19481413	2.9470607	21	10 30.7	18.5
30992 1995 SV_{66}	14.9	X	261.25389	238.61028	152.40168	0.87100	0.1464957	0.18379137	3.0637451	21	6 26.6	19.3
30993 1995 SA_{81}	14.1	X	310.77747	302.31107	24.95998	8.46701	0.1539447	0.18330062	3.0692111	21	6 6.7	18.1
30994 1995 UE_2	14.2	X	246.78045	139.65213	185.89085	2.74988	0.2055805	0.17650097	3.1475404	21	3 19.1	19.3
30995 1995 UZ_3	13.6	X	290.17967	330.12716	32.27101	22.43759	0.0309136	0.18044794	3.1014737	21	7 17.6	18.4
30996 1995 UH_4	14.1	X	257.50267	121.76252	304.23884	8.77114	0.1385795	0.18292412	3.0734211	21	8 6.1	18.5
30997 1995 UO_5	17.0	X	319.34027	151.07615	38.66823	36.21423	0.6433017	0.50581567	1.5600596	21	—	—
30998 1995 UF_{11}	14.4	X	198.93953	168.57079	199.39417	9.12881	0.0886537	0.17460835	3.1702442	21	3 29.9	19.2
30999 1995 UJ_{31}	14.1	X	331.31759	39.09365	11.91669	1.61890	0.1185629	0.19077652	2.9884966	21	11 7.1	17.6
31000 Rockchic	13.4	X	26.14094	316.27964	38.49011	11.27257	0.0496619	0.18940389	3.0029179	21	11 11.7	17.5
31001 1995 VG_{14}	14.1	X	262.26086	65.12896	235.95262	9.31880	0.0937409	0.17080025	3.2171925	21	3 12.2	19.1
31002 1995 VR_{15}	13.3	X	147.16163	112.31946	56.39984	14.10418	0.0401089	0.18032528	3.1028800	21	8 25.8	18.1
31003 1995 WQ_2	13.8	X	202.44194	352.91448	70.88328	17.40683	0.0807629	0.17660325	3.1463251	21	6 9.5	18.6
31004 1995 WW_{28}	13.7	X	161.91725	69.30690	55.83001	17.65579	0.1250007	0.17811289	3.1285215	21	7 16.5	18.9
31005 1995 WC_{31}	12.9	X	23.66315	258.86906	60.98209	11.99589	0.1091523	0.18572805	3.0424098	21	10 8.3	16.9
31006 1995 XC	12.8	X	99.31150	285.00076	249.93971	11.74070	0.1440701	0.17318370	3.1876065	21	7 11.6	17.6
31007 1996 AE_{14}	14.5	X	39.26950	215.89991	94.78767	7.00039	0.2033673	0.29268122	2.2466710	21	11 16.6	17.1
31008 1996 BN_2	15.5	X	172.36270	304.54407	218.08642	2.38106	0.1043136	0.29242603	2.2479779	21	9 16.1	18.6
31009 1996 CP	13.5	X	256.42243	349.12468	60.69412	12.98068	0.1049523	0.17978610	3.1090806	21	7 22.5	18.2
31010 1996 CJ_1	15.6	X	151.43503	123.53456	59.68431	3.77410	0.1432259	0.29066742	2.2570360	21	9 24.0	18.9
31011 1996 CG_7	15.3	X	15.78833	261.73351	237.27795	0.35407	0.0848599	0.31209350	2.1525152	21	—	—
31012 1996 CG_8	15.3	X	131.03079	58.05027	145.36478	3.81635	0.1412678	0.29038759	2.2584857	21	9 29.4	18.6
31013 1996 DR	14.1	X	189.26039	71.30445	154.91976	8.93991	0.1622561	0.29785577	2.2205746	21	12 24.3	17.3
31014 1996 DW	14.9	X	68.72523	227.27191	354.31994	7.49915	0.1629880	0.28450774	2.2894965	21	8 15.4	17.6
31015 Boccardi	16.0	X	195.12503	328.71987	153.30422	5.46988	0.0743441	0.29011176	2.2599170	21	8 19.5	19.0
31016 1996 DY_1	15.3	X	126.03043	67.91810	114.90963	2.88105	0.1044005	0.28832768	2.2692299	21	8 24.0	18.2
31017 1996 EH_2	14.6	X	134.58964	292.22304	265.90111	4.36680	0.1376896	0.28951319	2.2630309	21	9 21.9	18.1
31018 1996 ET_2	15.7	X	96.41179	291.53641	190.53129	3.06440	0.0873275	0.27818523	2.3240565	21	4 16.7	18.2
31019 1996 EH_{10}	15.7	X	158.75012	347.44737	351.34652	1.99935	0.2270111	0.26999869	2.3708002	21	1 12.6	19.3
31020 Skarupa	13.0	X	46.54809	180.21580	1.59541	3.47018	0.1202704	0.12399204	3.9829682	21	5 11.5	18.2
31021 1996 FW_1	15.1	X	317.78193	95.24168	133.14626	1.48557	0.1684275	0.27208873	2.3586438	21	1 22.6	18.1
31022 1996 FJ_9	14.4	X	83.26682	112.33565	182.76389	2.50324	0.0852297	0.29415816	2.2391445	21	12 2.5	17.2
31023 1996 FT_{10}	15.9	X	122.90885	113.53398	26.12373	8.20247	0.0485973	0.28152319	2.3056494	21	6 10.8	18.9
31024 1996 FT_{11}	15.3	X	354.15711	241.16790	71.77024	1.89116	0.0614991	0.28523976	2.2855778	21	8 11.9	17.6
31025 1996 GR	15.2	X	103.98244	85.49270	97.53367	2.69060	0.1523912	0.28254599	2.3000818	21	8 2.9	18.3
31026 1996 GB_7	15.3	X	355.51402	84.34004	34.92670	4.30342	0.0811350	0.30396588	2.1907164	21	—	—
31027 1996 HQ	15.7	X	101.25012	148.01298	60.79446	7.20649	0.1009227	0.28363229	2.2942053	21	9 1.9	18.8
31028 Cerulli	15.5	X	19.69784	285.65783	130.50018	3.67924	0.1363402	0.30059817	2.2070483	21	—	—
31029 1996 HC_{16}	15.1	X	108.66895	74.10348	43.81363	6.11407	0.1107290	0.27604938	2.3360288	21	5 2.1	17.9
31030 1996 HN_{19}	14.4	X	214.09684	153.69557	209.06866	6.39445	0.1381208	0.27218033	2.3581145	21	3 28.2	17.9
31031 Altiplano	15.0	X	193.62492	77.82409	164.75726	2.79234	0.1587789	0.25735859	2.4478057	21	—	—
31032 Scheidemann	15.8	X	156.35298	85.37939	70.13546	1.46263	0.1123085	0.28455603	2.2892375	21	8 20.9	19.1
31033 1996 HY_{23}	15.0	X	286.15631	264.77172	48.60538	9.96035	0.2420351	0.23333222	2.6130812	21	4 5.1	19.0
31034 1996 HC_{24}	14.6	X	179.10483	292.67411	66.76143	6.87117	0.1038738	0.26798718	2.3826488	21	2 20.1	18.1
31035 1996 HJ_{24}	14.7	X	297.38732	80.45662	194.48823	4.01869	0.0491996	0.27220347	2.3579809	21	3 16.9	17.8
31036 1996 HM_{25}	15.0	X	256.78231	225.97258	61.87938	9.36056	0.1157210	0.26834340	2.3805397	21	2 10.3	18.6
31037 Mydon	12.1	X	43.53790	28.71306	188.76870	7.27616	0.1304423	0.08195389	5.2491584	21	6 22.8	18.7
31038 1996 HG_{26}	15.0	X	182.98995	275.62120	203.00490	6.99273	0.0920167	0.28309076	2.2971301	21	7 28.1	18.3
31039 1996 JN	14.2	X	148.84178	94.60389	90.37612	5.16159	0.0964064	0.28596226	2.2817264	21	9 23.6	17.4
31040 1996 JW_8	15.5	X	66.69947	253.79174	149.04516	6.79380	0.1134678	0.26087530	2.4257577	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
31041 1996 KD	14.6	X	266.71953	113.92710	91.14123	3.75990	0.1222630	0.26137439	2.4226687	21	—	—
31042 1996 KS_4	15.7	X	193.62496	166.67419	119.38641	3.37885	0.1612574	0.26073465	2.4266299	21	—	—
31043 Sturm	15.9	X	327.51921	145.77816	105.59367	8.89259	0.1723340	0.23306564	2.6150734	21	3 19.4	19.1
31044 1996 NY	13.6	X	205.86971	235.45597	88.81937	13.55436	0.2498220	0.26158616	2.4213610	21	2 7.8	18.0
31045 1996 NP_4	14.8	X	359.37796	301.94690	315.52012	7.96191	0.1843522	0.23238461	2.6201801	21	5 20.6	17.4
31046 1996 NU_4	14.0	X	354.72252	31.79237	310.95943	7.94399	0.0778105	0.23873966	2.5734733	21	9 17.6	17.1
31047 1996 PW_8	14.3	X	77.55886	327.53969	315.95562	12.92350	0.1467990	0.24288122	2.5441347	21	11 3.9	18.2
31048 1996 PO_9	13.8	X	262.39289	141.30169	135.66088	13.67450	0.1625074	0.22341768	2.6898270	21	2 1.8	18.1
31049 1996 QZ	15.5	X	140.06684	221.00780	146.36560	7.07687	0.0830575	0.21598934	2.7511515	21	1 20.2	19.4
31050 1996 RA_2	13.8	X	343.13716	310.81470	115.49658	3.16600	0.0404665	0.20517879	2.8469581	21	12 16.8	17.5
31051 1996 RT_3	14.4	X	3.30876	262.63557	357.52166	14.11645	0.0782177	0.22944814	2.6424880	21	6 4.5	17.9
31052 1996 RC_5	14.1	X	112.38465	265.09586	37.59769	2.38072	0.0658327	0.20643037	2.8354391	21	12 26.8	18.3
31053 1996 RD_5	14.7	X	190.86914	295.36360	159.74223	4.02525	0.0488198	0.23034996	2.6355865	21	7 7.4	18.4
31054 1996 RT_5	13.8	X	135.03281	201.20413	18.33013	15.73931	0.1005154	0.23628035	2.5912997	21	10 15.2	17.6
31055 1996 RZ_{19}	14.4	X	269.43815	177.96705	338.40180	0.91627	0.0830084	0.20629265	2.8367009	21	12 25.2	18.0
31056 1996 RK_{25}	13.6	X	331.22295	117.20210	176.64540	14.82682	0.1320482	0.23035471	2.6355503	21	5 29.2	16.9
31057 1996 SK_4	13.7	X	35.11158	245.50932	12.09110	14.44322	0.0763986	0.23110068	2.6298758	21	8 2.3	17.2
31058 1996 TA_5	15.0	X	218.44462	99.61498	205.47943	5.01384	0.0742318	0.21671028	2.7450465	21	1 27.4	19.1
31059 1996 TQ_5	14.2	X	265.32574	333.12199	342.35996	12.65313	0.1827800	0.22400885	2.6850926	21	3 18.9	18.3
31060 1996 TB_6	13.7	X	180.90095	346.67286	31.42221	12.25897	0.3113884	0.21887906	2.7268834	21	3 30.3	18.7
31061 Tamao	15.1	X	317.44660	213.01244	151.82696	1.32109	0.0522148	0.19138125	2.9821979	21	8 20.8	19.0
31062 1996 TP_{10}	12.1	X	28.74321	176.59049	74.72730	11.04478	0.0416727	0.18939970	3.0029621	21	7 4.5	16.2
31063 1996 TK_{11}	15.0	X	31.72869	340.84674	30.72781	3.15090	0.1912567	0.20168060	2.8797843	21	—	—
31064 1996 TP_{11}	14.5	X	268.13190	235.57144	210.61386	11.91880	0.0719963	0.19490445	2.9461502	21	9 22.9	18.7
31065 Beishizhang	14.8	X	37.80563	234.68370	221.71371	4.18038	0.0822735	0.21269891	2.7794522	21	—	—
31066 1996 TR_{25}	14.5	X	43.36969	232.30056	40.23636	7.98761	0.0568761	0.23057472	2.6338736	21	8 31.4	17.9
31067 1996 TF_{50}	14.6	X	284.83693	250.56738	275.29531	3.10964	0.0304653	0.20863032	2.8154713	21	—	—
31068 1996 TT_{54}	13.4	X	278.59169	227.59773	154.45859	22.32799	0.0343576	0.23405050	2.6077323	21	7 23.3	17.2
31069 1996 UM_1	14.9	X	184.44970	346.63292	133.70299	4.97657	0.1528569	0.22848332	2.6499218	21	7 31.3	19.1
31070 1996 VX_9	14.2	X	163.27032	259.03441	174.30543	8.78156	0.0418434	0.18026359	3.1035878	21	5 11.2	18.8
31071 1996 VL_{18}	14.2	X	344.46202	89.06067	171.67803	9.72313	0.0847797	0.18152168	3.0892310	21	5 13.9	18.3
31072 1996 VZ_{22}	14.6	X	61.58584	243.86454	141.65825	6.70740	0.0997463	0.20408983	2.8570761	21	—	—
31073 1996 VV_{29}	14.0	X	236.32444	19.86411	53.75220	9.63589	0.1225080	0.18846477	3.0128853	21	7 28.1	18.7
31074 1996 WY_1	14.0	X	356.43146	275.50696	62.92880	15.77870	0.1813686	0.23581520	2.5947062	21	10 4.8	16.8
31075 1996 XV	14.5	X	131.64186	81.15805	49.02681	1.41106	0.0908829	0.18090499	3.0962476	21	6 17.5	19.0
31076 1996 XH_1	15.5	X	96.29917	90.09254	78.14012	24.63080	0.1582294	0.37976694	1.8885332	21	7 1.3	17.5
31077 1996 XZ_2	13.5	X	57.35610	71.67670	99.15787	14.77765	0.1910078	0.17247068	3.1963858	21	5 24.5	17.6
31078 1996 XJ_5	13.6	X	231.32604	330.22718	276.88779	12.45441	0.1777041	0.20468403	2.8515440	21	—	—
31079 1996 XS_5	13.9	X	150.98226	28.66169	97.45047	6.04482	0.1089487	0.17983585	3.1085071	21	7 4.5	18.8
31080 1996 XA_6	13.7	X	31.15018	43.54272	299.11061	6.66328	0.1436269	0.19315522	2.9639105	21	11 15.8	17.6
31081 1996 XO_{13}	13.9	X	303.75243	97.56518	256.08548	8.19092	0.0401882	0.18532252	3.0468466	21	7 17.3	18.0
31082 1996 XM_{19}	14.3	X	351.08681	110.32158	283.40787	8.44714	0.0960756	0.19361407	2.9592259	21	11 15.3	18.0
31083 1996 XE_{32}	14.4	X	109.91253	115.50068	19.00030	7.52589	0.2110714	0.17495432	3.1660633	21	6 11.9	19.4
31084 1996 YX_2	14.5	X	119.42536	28.98992	55.76670	1.24098	0.1842427	0.17268501	3.1937405	21	4 20.1	19.3
31085 1997 AV_{12}	13.9	X	229.71532	326.13203	86.78433	3.28097	0.1371470	0.18034200	3.1026881	21	6 21.3	18.7
31086 Gehringer	15.0	X	184.13519	72.40458	55.67794	1.94226	0.2167863	0.18055496	3.1002480	21	8 8.1	20.3
31087 Oirase	13.8	X	299.81366	68.03227	339.74018	10.10090	0.1062481	0.18854088	3.0120744	21	9 12.9	17.8
31088 1997 BV	13.9	X	238.39387	187.45373	287.36114	5.95255	0.0812517	0.18713516	3.0271396	21	9 19.4	18.4
31089 1997 BW_1	14.9	X	314.74993	77.90083	357.45963	4.78705	0.2376558	0.19187705	2.9770584	21	10 30.8	17.9
31090 1997 BJ_5	13.1	X	193.79663	63.03862	308.40274	10.47270	0.1876672	0.17167233	3.2062879	21	3 25.2	18.7
31091 1997 BE_9	15.8	X	18.40854	115.24510	318.33402	17.78916	0.0950538	0.35921902	1.9598816	21	—	—
31092 1997 CW_5	14.0	X	310.20363	100.61955	341.83717	10.71145	0.0888691	0.19118553	2.9842328	21	11 12.0	17.9
31093 1997 CE_{28}	13.6	X	199.67749	313.62500	119.25767	3.12076	0.1603230	0.17742081	3.1366521	21	6 16.2	18.6
31094 1997 CN_{28}	13.6	X	65.01306	257.39495	143.96241	18.76455	0.2150155	0.16013895	3.3584436	21	—	—
31095 Buneiou	13.8	X	274.98526	124.19790	313.05904	9.75702	0.0781968	0.18741746	3.0240991	21	9 16.9	18.0
31096 1997 GH_{14}	13.6	X	329.40708	33.16551	10.60119	22.87873	0.2268834	0.18348448	3.0671604	21	10 14.7	16.6
31097 Nucciomula	12.9	X	72.87841	72.20876	97.27917	2.70872	0.1072777	0.12543534	3.9523565	21	5 31.8	18.3
31098 Frankhill	14.7	X	279.33126	89.82654	249.05307	22.53320	0.2825482	0.28394886	2.2924997	21	4 13.0	18.6
31099 1997 MF_4	15.5	X	215.88706	316.20602	17.35873	3.07187	0.2379929	0.27486739	2.3427210	21	2 22.9	19.5
31100 1997 ML_4	15.3	X	359.58845	45.39539	275.48566	6.27873	0.1572363	0.29076048	2.2565544	21	9 5.4	17.1
31101 1997 NM_1	16.1	X	57.20243	343.44570	191.96584	1.49809	0.1442705	0.28039279	2.3118420	21	5 10.7	18.1
31102 1997 NP_2	15.3	X	120.27880	33.77994	202.56888	5.05278	0.1491947	0.29585903	2.2305545	21	10 31.7	18.6
31103 1997 OE_2	16.1	X	264.63685	105.42594	146.01595	5.39135	0.1973994	0.27226091	2.3576492	21	—	—
31104 Annanetrebko	15.1	X	49.67821	298.81677	305.31419	5.08434	0.1313742	0.28707150	2.2758449	21	8 10.7	17.4
31105 Oguniyamagata	14.6	X	41.48416	130.05138	268.32876	5.52448	0.1343787	0.30063160	2.2068846	21	—	—
31106 1997 PU_2	14.5	X	131.52255	5.41064	150.31814	23.01632	0.1410042	0.28636527	2.2795852	21	7 25.2	18.0
31107 1997 PS_3	15.9	X	54.64431	212.67747	13.61768	2.64735	0.0333912	0.28220378	2.3019409	21	7 7.3	18.4
31108 1997 PW_3	15.1	X	143.16255	137.98681	354.10759	6.58326	0.0410384	0.28097390	2.3086534	21	6 28.4	18.1
31109 Janpalouš	15.6	X	43.18185	241.78393	344.46860	6.89455	0.0728554	0.28186249	2.3037987	21	6 23.9	18.2
31110 Clapas	16.1	X	59.75099	2.09146	241.19035	3.29241	0.1651162	0.28774932	2.2722695	21	8 30.4	18.7
31111 1997 PN_5	13.5	X	174.00788	94.33724	292.97056	12.12940	0.1947743	0.23235371	2.6204124	21	3 21.3	18.1
31112 1997 PQ_5	15.7	X	92.56973	313.73930	242.17586	4.08037	0.1568971	0.28640450	2.2793770	21	8 5.5	18.6
31113 Stull	15.4	X	70.44018	193.30997	263.57815	5.93356	0.0854636	0.27196887	2.3593367	21	1 28.1	17.9
31114 1997 QB_1	15.8	X	174.09996	77.47118	64.99154	4.59000	0.1164875	0.28594950	2.2817943	21	8 24.1	19.1
31115 1997 QF_4	14.5	X	309.93163	257.98089	229.69361	3.86503	0.0684669	0.30220267	2.1992293	21	—	—
31116 1997 QM_4	15.9	X	269.01553	169.90489	167.04985	4.67521	0.1271853	0.27811020	2.3244744	21	4 24.7	19.1
31117 1997 QF_5	15.6	X	21.45254	254.71020	152.50745	1.88648	0.1346927	0.25752623	2.4467433	21	—	—
31118 1997 RN_1	16.0	X	334.02349	47.95127	297.14532	2.77028	0.2741529	0.24551006	2.5259409	21	8 4.3	17.3
31119 1997 RP_1	15.5	X	157.67372	14.39730	345.70733	3.23325	0.2274873	0.26712726	2.3877595	21	2 7.6	19.1
31120 1997 RT_8	15.4	X	197.78853	223.96134	92.31383	2.35484	0.1914248	0.26720053	2.3873230	21	1 17.7	19.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
31121 1997 RD_{10}	15.1	X	274.08310	204.09317	161.51310	4.89381	0.2921378	0.23902598	2.5714178	21	5 20.5	19.0
31122 Brooktaylor	15.1	X	138.60540	122.48381	170.34909	3.07366	0.1380217	0.30333059	2.1937741	21	—	—
31123 1997 SU	14.2	X	139.49715	179.57549	211.42051	5.47540	0.1272662	0.26464424	2.4026716	21	2 13.9	17.6
31124 Slavíček	15.8	X	176.93877	104.39999	334.92327	2.16721	0.0743613	0.27861850	2.3216464	21	5 28.8	18.9
31125 1997 SL_1	15.1	X	212.13047	280.36573	176.13042	3.59154	0.0268982	0.28388199	2.2928598	21	8 8.3	17.9
31126 1997 SG_2	14.4	X	75.82868	13.77713	338.06455	7.56693	0.0745838	0.29763717	2.2216618	21	—	—
31127 1997 SL_4	14.7	X	76.67570	196.37668	222.50536	6.86641	0.1920098	0.22004263	2.7172619	21	1 13.2	17.8
31128 1997 SL_9	16.2	X	279.61607	19.15303	312.61120	2.74160	0.1757990	0.23600172	2.5933389	21	4 24.8	20.0
31129 Langyatai	14.4	X	6.95726	272.58864	4.57318	12.10491	0.1418634	0.24143769	2.5542653	21	7 14.2	17.2
31130 1997 SS_{10}	14.7	X	179.16264	288.19137	185.65370	3.59628	0.0794273	0.28096328	2.3087116	21	7 18.5	17.9
31131 1997 SV_{10}	14.9	X	150.87215	43.05896	184.78805	4.35398	0.1070072	0.29599424	2.2298751	21	11 20.7	18.1
31132 1997 SD_{13}	14.9	X	204.20697	284.45621	173.00095	6.78685	0.0677047	0.28313158	2.2969092	21	7 26.0	18.0
31133 1997 SZ_{15}	15.0	X	122.33073	54.84577	235.09915	3.13061	0.1033768	0.25273097	2.4775955	21	12 31.4	18.8
31134 Zurria	15.4	X	312.58707	147.45560	48.60050	3.60581	0.1222203	0.26396185	2.4068107	21	—	—
31135 1997 SN_{24}	14.7	X	289.55176	305.34272	208.74651	16.48921	0.0597474	0.25523807	2.4613446	21	—	—
31136 1997 SN_{31}	14.4	X	99.19619	222.99861	358.53460	5.37057	0.0891386	0.28706463	2.2758812	21	9 12.3	17.4
31137 1997 SQ_{32}	15.0	X	161.58332	19.57598	356.23361	2.20492	0.2350111	0.26819891	2.3813946	21	3 2.5	18.8
31138 1997 SJ_{33}	15.6	X	147.30660	207.62535	151.60683	3.56835	0.1044584	0.26450771	2.4034983	21	1 11.8	18.8
31139 Garnavich	15.8	X	27.62705	123.97884	7.98216	1.36894	0.1483734	0.26240267	2.4163354	21	1 6.1	17.8
31140 1997 TC_9	15.4	X	169.37227	135.88033	212.29293	8.68197	0.2260105	0.22435920	2.6822966	21	2 5.2	20.0
31141 1997 TN_{18}	15.5	X	21.47949	31.02362	109.84591	2.94047	0.1557573	0.26468436	2.4024288	21	1 5.4	17.8
31142 1997 TT_{22}	15.4	X	134.26906	128.66043	220.57510	0.82130	0.1422709	0.26295184	2.4129699	21	—	—
31143 1997 TN_{24}	14.0	X	11.77328	116.27357	40.17564	7.53782	0.0830099	0.26166696	2.4208625	21	1 21.5	16.8
31144 1997 TM_{26}	14.4	X	254.79017	13.60320	53.00396	4.62026	0.1068506	0.28403457	2.2920385	21	8 15.7	17.2
31145 1997 UK	15.3	X	210.74020	349.84976	218.08948	0.38150	0.0193568	0.25445944	2.4663631	21	—	—
31146 1997 UV_3	14.3	X	76.24758	0.84937	27.09673	2.54424	0.1879996	0.25707256	2.4496210	21	—	—
31147 Miriquidi	14.2	X	98.70358	317.62221	253.80152	3.59743	0.0565012	0.28034417	2.3121093	21	8 20.9	17.2
31148 1997 UO_8	13.1	X	241.99150	39.56577	39.51314	15.32662	0.0809036	0.24056774	2.5604195	21	8 23.9	16.9
31149 1997 UE_{13}	16.0	X	319.97391	157.06454	16.25966	2.51080	0.1388229	0.25985489	2.4321039	21	—	—
31150 1997 UT_{20}	14.8	X	226.78542	195.46881	42.64935	8.71899	0.0747064	0.25534747	2.4606415	21	—	—
31151 Sajichugaku	15.3	X	277.79167	142.09734	27.07178	5.25966	0.0742175	0.29829788	2.2183800	21	—	—
31152 Daishinsai	14.3	X	254.34261	68.93232	52.82969	13.09987	0.2153058	0.24390000	2.5370450	21	10 13.3	17.8
31153 Enricaparri	14.7	X	10.25220	295.25585	6.71611	6.05452	0.1795173	0.28438909	2.2901333	21	9 5.9	16.3
31154 1997 VJ	14.4	X	314.08486	283.44848	47.52436	23.56855	0.2295447	0.27983427	2.3149171	21	5 27.2	16.9
31155 1997 VG_2	15.4	X	152.68506	149.97837	278.27589	2.30918	0.2081636	0.26900233	2.3766507	21	4 26.2	19.0
31156 1997 WO	14.9	X	67.81046	61.19411	56.38443	3.49338	0.1266655	0.26312623	2.4119036	21	3 5.1	17.4
31157 1997 WK_1	14.4	X	145.22191	46.70213	313.65851	4.45149	0.0765767	0.21916554	2.7245066	21	1 17.1	18.1
31158 1997 WE_3	14.4	X	357.87257	86.98579	295.45124	0.93818	0.0435243	0.20284309	2.8687711	21	11 10.8	18.2
31159 1997 WB_6	14.5	X	156.93523	74.17342	79.59239	4.38342	0.0579010	0.27891804	2.3199839	21	8 18.7	17.6
31160 1997 WQ_9	15.2	X	137.25285	255.63892	177.50781	2.27479	0.1797080	0.26790918	2.3831113	21	4 16.1	18.5
31161 1997 WR_{11}	15.2	X	133.59526	310.39486	223.76842	4.55618	0.1220121	0.23740809	2.5830871	21	8 16.7	19.1
31162 1997 WB_{13}	14.9	X	90.29790	147.71270	39.19282	1.85820	0.1382367	0.23424843	2.6062631	21	7 19.0	18.4
31163 1997 WR_{18}	15.4	X	283.36724	244.33468	99.62777	2.69015	0.1411757	0.23500549	2.6006628	21	5 22.6	18.9
31164 1997 WM_{35}	14.2	X	354.55471	144.73482	78.64711	3.19544	0.1541011	0.26770721	2.3843097	21	3 19.5	16.3
31165 1997 WN_{43}	14.8	X	293.38827	84.59920	265.36929	9.47032	0.2795485	0.23703003	2.5858330	21	5 21.2	18.3
31166 1997 WX_{45}	15.4	X	35.09828	123.89000	219.49399	5.71949	0.2605016	0.29020510	2.2594324	21	12 30.7	18.4
31167 1997 WL_{46}	15.0	X	96.30700	248.31890	178.31328	1.92810	0.2018540	0.26201815	2.4186989	21	2 17.7	17.5
31168 1997 WM_{49}	14.4	X	284.70346	187.08529	172.96638	4.26250	0.0986438	0.23539961	2.5977592	21	6 21.9	17.8
31169 1997 WV_{53}	15.0	X	165.94442	73.15505	65.76079	3.18239	0.0974940	0.23452765	2.6041941	21	8 7.2	18.8
31170 1997 WO_{58}	14.3	X	84.22443	203.99855	222.04953	24.00212	0.2607420	0.26147243	2.4220631	21	1 28.1	17.3
31171 1997 XB	15.3	X	235.31266	19.61568	99.07523	9.03069	0.1052511	0.24035500	2.5619301	21	9 30.9	19.0
31172 1997 XQ	15.0	X	245.28601	176.95942	288.06201	2.25029	0.1588972	0.23832809	2.5764352	21	9 11.3	18.7
31173 1997 XF_1	15.0	X	344.17064	106.57865	250.00695	20.39753	0.1043600	0.36751517	1.9302751	21	10 9.4	16.9
31174 Rozelot	14.5	X	64.24129	82.72121	310.26851	0.85566	0.1192060	0.20587064	2.8405762	21	—	—
31175 Erikafuchs	13.2	X	175.10696	117.64854	293.23097	11.59035	0.1740895	0.22426743	2.6830282	21	4 21.6	17.8
31176 1997 XL_9	14.0	X	15.88989	15.91326	89.60947	7.29327	0.1056185	0.25539284	2.4603501	21	—	—
31177 1997 XH_{11}	13.5	X	170.40419	78.65170	68.00032	11.16118	0.0985470	0.22893659	2.6464229	21	8 25.9	17.7
31178 1997 XK_{13}	13.1	X	238.97934	166.03847	151.73149	19.05850	0.1369282	0.17369678	3.1813262	21	3 9.8	18.1
31179 Gongju	13.8	X	142.00277	248.18292	81.29741	3.45202	0.1913626	0.25795186	2.4440511	21	—	—
31180 1997 YX_3	14.4	X	68.69914	86.34324	298.44343	27.97904	0.4199960	0.21217648	2.7840128	21	—	—
31181 1997 YY_3	13.9	X	39.98720	252.52955	108.52647	16.66414	0.2838198	0.20400202	2.8578959	21	—	—
31182 1997 YZ_3	14.8	X	33.82659	235.36213	107.39904	23.75369	0.0664342	0.36648624	1.9338863	21	12 19.3	16.9
31183 1997 YT_4	15.1	X	26.88491	331.04362	61.40594	8.00576	0.2985042	0.25270280	2.4777796	21	—	—
31184 1997 YZ_4	14.6	X	27.70713	279.52619	65.59437	4.21325	0.1813073	0.24598129	2.5227139	21	12 2.4	17.3
31185 1997 YK_5	13.5	X	224.67729	308.27578	93.66253	15.88637	0.0394245	0.22855669	2.6493546	21	6 10.0	17.2
31186 1997 YQ_5	15.0	X	228.06699	295.24020	115.04356	6.65977	0.2489008	0.23186938	2.6240601	21	6 8.3	19.4
31187 1997 YK_7	14.2	X	187.50622	355.92739	84.13986	13.07282	0.1546534	0.22946209	2.6423809	21	6 13.1	18.5
31188 1997 YM_7	13.8	X	114.94171	246.27043	113.64693	10.35322	0.1748372	0.20921894	2.8101881	21	—	—
31189 Tricomi	14.9	X	320.34228	150.03311	280.80138	10.48323	0.1906926	0.24429435	2.5343141	21	11 25.6	17.1
31190 Toussaint	13.9	X	288.60197	125.50810	276.78882	14.03893	0.1131481	0.23532095	2.5983381	21	8 17.1	17.4
31191 1997 YD_{15}	14.5	X	213.10242	352.56901	96.75776	3.58628	0.1321707	0.23249197	2.6193734	21	7 21.3	18.5
31192 Aigoual	14.0	X	165.63430	278.70144	65.55187	3.45327	0.1845253	0.21567572	2.7538178	21	1 30.6	18.4
31193 1997 YP_{16}	14.5	X	185.43666	194.86222	285.53054	5.12091	0.1368846	0.23209860	2.6223322	21	8 1.1	18.7
31194 1997 YQ_{16}	14.8	X	233.20253	334.91479	61.15330	3.06185	0.2794996	0.23198098	2.6232185	21	5 23.3	19.4
31195 1997 YG_{18}	14.1	X	165.42828	275.65174	236.21950	8.07582	0.0444181	0.19089980	2.9872098	21	8 15.9	18.6
31196 Yulong	14.9	X	164.11269	305.33440	183.79910	1.12742	0.1493445	0.23167418	2.6255339	21	7 23.1	19.1
31197 1997 YS_{19}	14.6	X	82.18915	356.38907	78.38887	7.47867	0.0939198	0.26108166	2.4244792	21	1 22.9	17.3
31198 1998 AB_1	14.3	X	2.09253	327.03284	120.80961	20.66473	0.1327111	0.20626544	2.8369503	21	—	—
31199 1998 AK_3	14.1	X	340.27434	21.82083	125.70788	4.80055	0.0399379	0.21017023	2.8017018	21	—	—
31200 1998 AL_4	14.3	X	231.09148	158.32593	342.67939	1.31145	0.0540234	0.19774078	2.9179100	21	10 20.7	18.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
31201 Michellegrand	13.7	X	256.59969	230.60551	141.15985	10.32192	0.1085708	0.18354469	3.0664897	21	6 3.6	18.4
31202 1998 AX_7	13.9	X	212.89832	10.56401	102.32527	14.06850	0.1252161	0.23535421	2.5980932	21	8 25.0	18.0
31203 Hersman	14.6	X	357.94514	328.25693	42.71069	2.63863	0.0832008	0.19745798	2.9206954	21	10 29.3	18.2
31204 1998 AA_{10}	13.9	X	100.32297	303.02542	291.94163	14.07151	0.0796188	0.23579257	2.5948722	21	9 17.1	17.9
31205 1998 BW	13.0	X	230.05820	268.94782	315.67515	14.07108	0.2149433	0.20282518	2.8689400	21	—	—
31206 1998 BF_1	13.8	X	89.22284	13.37765	100.02940	12.66769	0.0311157	0.21970605	2.7200364	21	3 31.0	17.7
31207 1998 BM_1	14.1	X	77.77884	337.64168	137.80221	6.24791	0.1293724	0.17530166	3.1618798	21	4 2.6	18.3
31208 1998 BU_1	14.0	X	262.05088	324.57893	102.51173	14.32985	0.1374066	0.23533647	2.5982238	21	8 19.9	17.6
31209 1998 BZ_6	13.8	X	56.76717	3.21162	119.37542	13.41752	0.0782133	0.21500569	2.7595361	21	2 28.1	17.3
31210 1998 BX_7	16.3	X	236.17563	271.41367	144.92091	8.95833	0.5023985	0.23461763	2.6035282	21	6 8.1	21.6
31211 1998 BW_8	13.7	X	333.52315	205.67915	15.20523	5.07820	0.0864832	0.17333371	3.1857672	21	3 7.7	17.8
31212 1998 BZ_8	14.0	X	218.32810	355.34457	77.55377	4.77953	0.1032641	0.22950189	2.6420754	21	7 7.4	17.8
31213 1998 BK_9	13.8	X	107.19221	345.82027	208.95450	2.38072	0.1664950	0.18461488	3.0546274	21	8 18.0	18.5
31214 1998 BZ_9	15.4	X	123.37019	1.78468	153.02236	3.32689	0.1144334	0.23235333	2.6204152	21	7 11.7	19.2
31215 1998 BN_{10}	14.6	X	3.28251	238.08715	103.95479	10.64248	0.1365972	0.19688035	2.9264052	21	10 9.0	18.2
31216 1998 BL_{12}	13.8	X	226.97635	82.48808	111.28848	17.34895	0.1273556	0.24499107	2.5295070	21	12 20.7	17.4
31217 1998 BD_{15}	13.6	X	104.30292	194.63294	299.37794	13.14116	0.0920668	0.22372856	2.6873348	21	5 16.3	17.5
31218 1998 BZ_{20}	14.6	X	296.39510	285.25037	115.90131	3.00290	0.1114181	0.19481227	2.9470794	21	9 1.2	18.4
31219 1998 BW_{24}	13.4	X	53.83423	69.90437	125.45531	17.32273	0.1740133	0.17861477	3.1226584	21	6 16.4	17.5
31220 1998 BA_{26}	14.3	X	71.64677	215.18309	351.10626	13.21629	0.1985347	0.22389876	2.6859726	21	8 3.0	18.0
31221 1998 BP_{26}	17.2	X	122.18355	186.68975	331.03723	20.22151	0.2568914	0.43563775	1.7233985	21	8 6.0	19.5
31222 1998 BD_{30}	14.3	X	241.74267	40.32349	139.46153	2.16203	0.1558765	0.20067056	2.8894396	21	12 7.4	18.4
31223 1998 BJ_{30}	14.4	X	291.22041	81.48920	284.12836	2.23585	0.1293083	0.23105903	2.6301918	21	7 4.2	17.8
31224 1998 BP_{33}	14.2	X	85.52468	334.81438	131.23179	10.33070	0.1014201	0.21563908	2.7541298	21	3 23.9	17.8
31225 1998 BH_{35}	14.6	X	184.96573	297.13914	238.27694	8.80940	0.1539018	0.24189077	2.5510747	21	10 7.4	18.7
31226 1998 BZ_{40}	14.1	X	146.01152	69.95925	32.92580	1.33870	0.1412820	0.18225868	3.0808974	21	6 2.6	19.0
31227 1998 BC_{41}	12.2	X	59.19704	342.85032	295.78216	12.76932	0.1451509	0.23108110	2.6300243	21	10 2.8	16.1
31228 1998 BR_{45}	14.9	X	70.42969	313.12935	126.24562	5.77284	0.0823664	0.21319355	2.7751514	21	1 20.5	18.3
31229 1998 BD_{46}	14.5	X	172.27887	272.22081	153.88337	11.46651	0.1738167	0.22506438	2.6766908	21	5 16.0	19.1
31230 Tuyouyou	13.5	X	165.39419	316.44427	110.16776	14.21086	0.1483862	0.22403177	2.6849094	21	5 11.4	18.0
31231 Uthmann	14.6	X	241.99686	22.04401	95.60998	9.37236	0.2320660	0.23785746	2.5798326	21	9 20.8	18.6
31232 Slavonice	14.6	X	244.94448	77.67607	108.16406	12.23798	0.0183809	0.20415518	2.8564664	21	—	—
31233 1998 CG_1	14.0	X	268.35474	9.79563	69.25319	11.02105	0.0607645	0.19073829	2.9888959	21	9 24.0	18.3
31234 Bea	15.1	X	154.30070	225.62383	254.21322	2.21016	0.1733245	0.18378949	3.0637661	21	7 2.9	20.2
31235 1998 CE_3	13.7	X	297.84317	65.65395	340.28351	9.23898	0.0919584	0.19165032	2.9794059	21	9 10.2	17.6
31236 1998 CC_4	13.6	X	279.74983	86.40989	311.69265	9.44810	0.1033670	0.19076258	2.9886422	21	8 4.3	17.4
31237 1998 CY_4	14.4	X	304.09857	245.49868	204.60386	1.18226	0.0201524	0.19737308	2.9215328	21	11 23.6	18.2
31238 Kromeriz	14.3	X	81.63934	207.63125	140.78944	3.09524	0.0238818	0.16019166	3.3577068	21	—	—
31239 Michaeljames	13.7	X	304.09754	69.52255	310.71844	12.01343	0.1991442	0.23588162	2.5942191	21	8 3.6	16.6
31240 Katrianne	14.4	X	40.90055	104.54484	2.77634	7.33186	0.1832094	0.21130001	2.7917061	21	1 16.5	17.2
31241 1998 DK_2	14.2	X	279.60478	279.35225	111.31431	13.71522	0.0200399	0.18524338	3.0477142	21	8 8.0	18.4
31242 1998 DO_{10}	13.1	X	353.96732	30.68349	263.85893	12.11310	0.2058604	0.18088306	3.0964979	21	7 6.9	16.2
31243 1998 DW_{10}	13.7	X	283.28539	17.88193	46.68360	10.30822	0.0730328	0.19144357	2.9815506	21	9 22.4	17.8
31244 1998 DG_{11}	14.3	X	298.02955	205.34758	57.76048	3.33193	0.1456786	0.17106940	3.2138171	21	3 5.7	18.9
31245 1998 DR_{11}	14.1	X	351.61434	315.49771	133.90639	2.80148	0.0432171	0.20186563	2.8780243	21	—	—
31246 1998 DZ_{12}	14.2	X	282.14467	111.11300	357.27621	7.38273	0.1559572	0.23927648	2.5696228	21	11 5.5	17.2
31247 1998 DD_{13}	13.6	X	95.64289	172.94765	24.57714	12.47941	0.1475088	0.18235342	3.0798302	21	8 13.2	18.3
31248 1998 DH_{13}	14.4	X	154.27859	328.68163	177.47021	23.63440	0.0876371	0.18439088	3.0571008	21	7 29.2	19.4
31249 Renéefleming	14.4	X	7.61277	86.41953	96.93074	1.57655	0.2642968	0.16840775	3.2475911	21	2 28.5	17.3
31250 1998 DR_{14}	14.2	X	129.66497	204.68723	300.73493	11.41405	0.0860520	0.18278670	3.0749613	21	7 4.9	18.9
31251 1998 DU_{14}	13.7	X	214.57241	288.10779	137.68127	12.07704	0.1005249	0.18489140	3.0515810	21	6 24.9	18.6
31252 1998 DA_{15}	13.4	X	120.04848	298.96345	132.83722	22.91335	0.1112013	0.17454162	3.1710521	21	4 3.3	18.4
31253 1998 DQ_{21}	14.5	X	358.43716	346.30557	18.94293	2.44721	0.1263146	0.19409730	2.9543122	21	10 24.4	17.8
31254 1998 DK_{23}	13.3	X	341.68789	263.05411	320.02750	9.03907	0.2068372	0.21607808	2.7503982	21	2 23.4	16.5
31255 1998 DL_{27}	14.0	X	71.38048	162.73352	4.04010	5.08074	0.0748950	0.17764861	3.1339701	21	5 17.3	18.2
31256 1998 DM_{32}	13.8	X	14.16629	28.21228	252.88193	13.04977	0.1827888	0.23738831	2.5832305	21	7 29.9	16.5
31257 1998 DG_{35}	13.5	X	75.33592	301.79890	8.42845	10.13013	0.1071713	0.19352933	2.9600896	21	11 25.1	17.9
31258 1998 EE	13.2	X	73.04335	232.17362	52.22856	10.73089	0.0750913	0.18985990	2.9981077	21	10 22.3	17.5
31259 1998 EB_3	14.2	X	181.30807	268.57787	72.78598	6.87115	0.1427942	0.21217073	2.7840630	21	2 9.6	18.7
31260 1998 EE_6	14.3	X	109.65374	208.67806	239.13014	5.47312	0.1935021	0.21853686	2.7297293	21	4 8.6	18.2
31261 1998 EF_8	14.3	X	121.51004	211.16065	173.50730	8.48081	0.2330222	0.20997951	2.8033981	21	2 8.8	18.4
31262 1998 ES_8	14.3	X	79.38891	265.40055	191.92840	4.63836	0.1215232	0.21443800	2.7644042	21	3 1.7	17.7
31263 1998 EG_9	13.4	X	104.63822	214.93241	120.01860	4.88467	0.0975020	0.25408765	2.4687684	21	—	—
31264 1998 EQ_{11}	14.2	X	177.37247	121.62175	40.81977	5.13432	0.0268327	0.18882141	3.0090904	21	9 18.1	18.5
31265 1998 EC_{13}	13.5	X	117.74405	203.44794	15.66503	4.83729	0.0865531	0.18747450	3.0234857	21	9 22.3	18.1
31266 Tournefort	13.8	X	93.45494	128.16712	84.24268	3.20540	0.0621451	0.18351861	3.0667801	21	8 13.7	18.2
31267 Kuldiga	12.9	X	318.57800	0.02300	12.59218	10.58673	0.1124627	0.18753534	3.0228317	21	8 30.9	16.7
31268 Welty	13.9	X	196.95894	22.59702	92.16102	10.28572	0.1263931	0.22973260	2.6403062	21	8 8.7	18.0
31269 1998 FO	13.8	X	118.62791	100.18948	17.37522	8.10692	0.1353377	0.21958891	2.7210036	21	5 19.3	17.8
31270 1998 FP_{14}	13.5	X	289.30421	220.51101	203.04775	9.18045	0.0642036	0.18965585	3.0002576	21	9 23.8	17.4
31271 Nallino	14.0	X	100.37587	2.06667	139.51594	1.71947	0.0983542	0.17749036	3.1358326	21	5 27.9	18.3
31272 Makosinski	14.0	X	87.69420	112.94698	52.83897	1.16092	0.1445135	0.17925072	3.1152682	21	6 18.3	18.3
31273 1998 FY_{23}	14.1	X	171.25203	316.30067	161.85740	10.56117	0.0846414	0.18394807	3.0620049	21	7 13.8	19.0
31274 1998 FE_{24}	13.7	X	114.98314	313.68077	175.39753	5.52821	0.1199457	0.17902924	3.1178370	21	6 1.7	18.4
31275 1998 FN_{25}	14.5	X	194.23661	300.34199	187.29560	10.06624	0.0579058	0.18691397	3.0295274	21	8 19.1	19.1
31276 Calvinrieder	14.5	X	72.95228	141.78076	273.71015	0.96167	0.0563501	0.20710977	2.8292348	21	—	—
31277 1998 FK_{28}	14.0	X	24.03953	10.26230	219.85188	1.26107	0.0695473	0.17800064	3.1298367	21	6 1.6	18.0
31278 1998 FK_{30}	14.1	X	175.53555	88.93530	333.82465	5.91769	0.3219297	0.22353460	2.6888891	21	5 13.1	19.2
31279 1998 FQ_{31}	14.3	X	101.28161	299.89706	134.79440	2.06790	0.1906626	0.17223068	3.1993546	21	3 20.8	18.8
31280 1998 FG_{33}	13.6	X	338.09515	158.67972	167.24548	11.78378	0.0325162	0.18397225	3.0617367	21	7 29.2	17.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
31281 Stothers	14.4	X	112.93551	107.60949	342.49513	9.03212	0.1062138	0.21610944	2.7501322	21	4 2.2	18.3
31282 Nicoleticea	14.2	X	90.04721	44.73990	180.83158	2.44270	0.1394495	0.18393913	3.0621042	21	9 4.1	18.5
31283 Wanruomeng	15.4	X	190.55506	117.84167	354.49263	5.66833	0.1753301	0.22824662	2.6517535	21	7 27.9	19.7
31284 1998 FN_{48}	12.9	X	281.64652	289.53052	331.19693	7.73201	0.1460865	0.12484296	3.9648493	21	2 17.9	18.6
31285 1998 FK_{51}	13.9	X	109.53918	180.29264	10.57830	15.72794	0.1221834	0.18235745	3.0797848	21	8 18.5	18.7
31286 1998 FD_{54}	13.8	X	232.15067	302.09630	192.22967	10.07366	0.0758259	0.19149811	2.9809845	21	10 10.9	18.1
31287 1998 FK_{58}	13.4	X	177.39422	177.46330	4.97182	9.02448	0.0226439	0.18982113	2.9985158	21	10 9.9	17.7
31288 1998 FZ_{59}	13.7	X	88.08042	267.18963	15.64980	11.00726	0.0889600	0.19011239	2.9954524	21	11 3.5	18.1
31289 1998 FN_{62}	13.6	X	226.25681	122.66580	352.68309	9.23216	0.0418250	0.18719183	3.0265287	21	9 13.9	17.7
31290 1998 FG_{63}	13.7	X	70.85043	74.10048	141.92354	2.17014	0.0377771	0.18043727	3.1015959	21	7 15.3	17.8
31291 Yaoyue	14.3	X	56.65774	52.16039	138.42030	2.69767	0.1376278	0.17565909	3.1575892	21	6 7.2	18.2
31292 1998 FK_{66}	14.1	X	194.35093	42.51550	45.34153	0.78844	0.1524269	0.18181330	3.0859268	21	6 29.7	19.1
31293 1998 FP_{70}	14.0	X	322.74305	104.67165	79.69211	1.71067	0.2413481	0.16384416	3.3076184	21	—	—
31294 1998 FJ_{71}	13.8	X	293.71732	55.39220	9.77705	9.69789	0.0658857	0.18891341	3.0081133	21	10 3.2	17.5
31295 1998 FF_{72}	14.1	X	197.78061	177.56473	273.42895	2.84534	0.2165462	0.18342441	3.0678300	21	7 4.8	19.4
31296 1998 FY_{73}	12.9	X	344.40507	7.65799	3.77101	10.02052	0.1103843	0.18812667	3.0164940	21	10 6.3	16.4
31297 1998 FZ_{74}	13.5	X	303.02648	63.02007	16.14825	10.11347	0.0810582	0.19207464	2.9750164	21	10 30.9	17.4
31298 Chantaihei	14.4	X	82.67556	143.15553	67.01040	5.70520	0.1146875	0.18018816	3.1044539	21	8 5.5	18.8
31299 1998 FJ_{80}	14.6	X	210.73584	344.94808	130.38565	5.75598	0.2024327	0.18710754	3.0274375	21	8 15.0	19.5
31300 1998 FZ_{82}	12.9	X	274.94684	344.82113	5.71337	16.31858	0.0778048	0.18171660	3.0870215	21	5 27.4	17.6
31301 1998 FE_{92}	13.2	X	270.00556	37.73787	47.94638	10.91381	0.0877494	0.19157153	2.9802228	21	9 29.5	17.4
31302 1998 FT_{95}	13.9	X	276.37465	193.19498	240.06859	9.25492	0.0783001	0.19046580	2.9917460	21	9 14.0	18.1
31303 1998 FO_{99}	13.6	X	215.57469	109.77224	335.73751	10.38721	0.0198915	0.18367610	3.0650269	21	7 29.1	18.0
31304 1998 FE_{103}	14.0	X	89.13698	355.52100	218.46735	8.92608	0.0421149	0.18269301	3.0760125	21	8 3.2	18.6
31305 1998 FL_{104}	13.8	X	129.39347	292.45812	314.96228	9.08438	0.0472773	0.19145881	2.9813924	21	11 1.5	18.4
31306 1998 FZ_{104}	13.0	X	234.84871	196.11142	243.94997	9.34731	0.0588237	0.18458368	3.0549716	21	8 4.5	17.5
31307 1998 FK_{105}	13.4	X	2.78998	25.93350	221.42405	9.75459	0.1559217	0.17483103	3.1675516	21	5 22.2	17.0
31308 1998 FK_{113}	14.1	X	159.27420	261.29746	260.92661	6.67981	0.0953058	0.18428162	3.0583090	21	8 23.2	19.0
31309 1998 FJ_{116}	13.3	X	358.39941	199.73186	359.66276	16.02471	0.0599589	0.16983589	3.2293596	21	3 17.9	17.4
31310 1998 FP_{118}	14.4	X	350.56426	196.57647	310.36930	3.93041	0.0568757	0.20542571	2.8446763	21	—	—
31311 1998 FX_{118}	13.9	X	195.55442	93.17127	349.59244	6.91267	0.0848682	0.17979377	3.1089921	21	6 26.8	18.7
31312 Fangerhai	14.4	X	22.87173	144.52643	8.54990	9.26067	0.1108223	0.20939514	2.8086113	21	2 16.9	17.7
31313 Kanwingyi	14.5	X	111.92237	91.32705	73.93364	1.80577	0.1408584	0.18196338	3.0842297	21	7 15.5	19.0
31314 1998 FS_{120}	14.8	X	251.24241	272.40849	170.33473	13.29886	0.1589850	0.18933140	3.0036843	21	8 16.6	19.3
31315 1998 FS_{132}	13.1	X	173.71491	327.75232	50.06854	0.75009	0.2687426	0.17373561	3.1808521	21	3 24.2	18.7
31316 1998 GZ_{7}	13.3	X	33.47546	48.41830	129.73499	21.47584	0.0344089	0.17162134	3.2069230	21	4 16.2	18.1
31317 1998 GL_{8}	13.4	X	89.06228	332.44535	141.18132	14.46790	0.1115437	0.17144590	3.2091103	21	4 15.9	18.0
31318 1998 GQ_{10}	15.4	X	261.79678	265.72624	200.92334	6.25554	0.4029249	0.23854092	2.5749025	21	8 30.2	19.5
31319 Vespucci	13.0	X	49.18336	333.92520	211.93611	16.44248	0.0585818	0.17308271	3.1888464	21	5 11.7	17.3
31320 1998 HX_{2}	15.3	X	305.91869	245.47287	201.92179	21.23140	0.1512009	0.36283598	1.9468350	21	—	—
31321 1998 HD_{3}	14.0	X	62.22341	132.41043	38.25421	5.89175	0.0835798	0.17243132	3.1968722	21	5 12.1	18.3
31322 1998 HS_{14}	14.4	X	172.51261	287.63554	112.40048	2.71751	0.1786912	0.17380469	3.1800093	21	4 15.9	19.7
31323 Lysá hora	13.5	X	99.32386	359.60951	48.00091	13.32534	0.1235356	0.21264890	2.7798879	21	1 31.2	17.4
31324 Jiřímrázek	14.1	X	257.32627	320.82726	100.90904	9.81018	0.0222900	0.18393889	3.0621069	21	8 20.2	18.4
31325 1998 HN_{33}	13.9	X	248.97832	69.49910	4.27491	10.57704	0.0159502	0.18386928	3.0628797	21	8 26.7	18.2
31326 1998 HF_{34}	13.8	X	163.79508	200.26109	24.10119	10.33478	0.0287810	0.19214569	2.9742830	21	11 13.7	18.1
31327 1998 HM_{34}	13.9	X	149.45253	258.85391	181.53889	10.88243	0.0219782	0.17387149	3.1791948	21	5 2.7	18.5
31328 1998 HV_{47}	14.3	X	148.05176	27.35710	80.76963	6.29031	0.1060484	0.17742651	3.1365849	21	6 9.0	19.1
31329 1998 HU_{57}	13.6	X	170.65476	47.88383	20.95429	6.23467	0.0711659	0.17449256	3.1716465	21	5 12.3	18.4
31330 1998 HB_{84}	13.8	X	144.45700	273.56772	185.74432	10.41770	0.1933212	0.17602278	3.1532383	21	6 1.8	19.1
31331 1998 HU_{92}	14.1	X	169.87554	167.48264	34.90294	11.32117	0.0407424	0.18886436	3.0086341	21	10 26.5	18.4
31332 1998 HC_{101}	14.0	X	183.64244	128.22768	32.05836	1.66011	0.1870434	0.18637179	3.0354000	21	9 15.7	19.0
31333 1998 HD_{101}	13.4	X	187.51920	14.63060	43.42629	10.55896	0.1021631	0.17347969	3.1839797	21	5 17.5	18.3
31334 1998 HW_{102}	13.6	X	88.88969	15.07725	146.07185	1.43827	0.1239556	0.17365394	3.1818494	21	6 11.2	18.1
31335 1998 HY_{124}	12.7	X	299.69863	231.88206	77.66756	23.47308	0.0592370	0.17305825	3.1891469	21	5 19.6	17.2
31336 Chenyuhsin	14.5	X	162.85067	293.83108	193.97323	9.12788	0.0880218	0.18230639	3.0803598	21	7 16.3	19.3
31337 1998 HA_{134}	13.8	X	234.39954	274.98227	157.40106	10.19382	0.0813460	0.18436469	3.0573903	21	7 25.1	18.3
31338 Lipperhey	13.3	X	348.25416	162.16778	53.23089	9.56630	0.0590616	0.12409475	3.9807703	21	4 2.2	18.7
31339 1998 KY_{30}	13.5	X	106.56145	56.43692	64.79403	14.26357	0.1879407	0.17171779	3.2057220	21	5 21.8	18.3
31340 1998 KW_{53}	12.6	X	146.15125	19.89628	84.23838	23.19792	0.0821082	0.17209312	3.2010592	21	6 2.7	17.5
31341 1998 KH_{55}	13.0	X	104.66872	151.33667	131.19351	16.97045	0.0741853	0.18678991	3.0308686	21	11 26.4	17.8
31342 1998 MU_{31}	10.5	X	332.20417	191.61798	102.96804	24.41552	0.0772217	0.08252214	5.2250332	21	6 13.7	17.2
31343 1998 NT	15.4	X	120.01550	243.22395	131.95501	28.91935	0.0291664	0.36676968	1.9328898	21	—	—
31344 Agathon	10.9	X	263.85542	325.62136	27.25626	7.47641	0.0383495	0.07973396	5.3461420	21	5 29.9	18.0
31345 1998 PG	17.5	X	337.61779	156.13395	222.70998	6.50251	0.3914357	0.34441579	2.0156448	21	12 30.0	18.0
31346 1998 PB_{1}	17.1	X	339.25742	350.53416	299.73264	5.96383	0.4299864	0.34090309	2.0294675	21	3 21.4	18.9
31347 1998 QV_{90}	15.0	X	118.86228	213.66983	59.03790	4.96759	0.1648836	0.30892091	2.1672275	21	12 17.2	18.3
31348 1998 QF_{92}	15.2	X	220.12744	283.53489	23.01762	21.88060	0.0770465	0.36512154	1.9387021	21	1 7.7	18.1
31349 Uria–Monzon	16.8	X	98.31479	290.02543	23.26762	2.78166	0.0858801	0.30802550	2.1714255	21	—	—
31350 1998 SF_{2}	15.5	X	27.33987	233.17882	105.69756	5.39356	0.2160536	0.30481944	2.1866249	21	12 12.4	17.8
31351 1998 SD_{24}	15.3	X	225.27040	306.86208	24.89800	21.52806	0.0615292	0.36893367	1.9253242	21	2 28.5	18.0
31352 1998 SP_{135}	16.0	X	85.32760	248.67542	69.96675	3.15254	0.2138410	0.30890162	2.1673178	21	—	—
31353 1998 TE	15.1	X	213.89362	189.70094	233.14565	5.64236	0.1027232	0.28944552	2.2633836	21	6 17.9	18.2
31354 1998 TR_{3}	14.0	X	239.56647	277.65638	32.07767	21.68435	0.0866865	0.36696551	1.9322021	21	2 14.0	17.0
31355 1998 TT_{6}	14.1	X	164.05485	217.06242	57.23272	7.17038	0.0921201	0.26642794	2.3919359	21	—	—
31356 1998 TN_{10}	16.0	X	122.61485	183.81631	37.66370	5.11337	0.0986881	0.29754805	2.2221053	21	10 12.7	19.1
31357 1998 UP_{20}	14.3	X	256.28612	171.01158	48.21306	7.63192	0.1420423	0.26844272	2.3799525	21	—	—
31358 1998 UR_{23}	15.2	X	105.87585	96.39576	155.38579	6.39166	0.1882103	0.30316545	2.1945707	21	11 11.3	18.6
31359 1998 UA_{28}	14.9	X	117.89133	305.91723	215.26223	23.02532	0.1938509	0.28758108	2.2731557	21	7 16.9	18.8
31360 Huangyihsuan	14.9	X	345.47439	305.35144	349.03138	1.85079	0.1063182	0.29136358	2.2534393	21	6 24.0	16.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
31361 1998 VQ_{29}	13.0	X	173.94949	86.64818	256.71759	11.88282	0.1983791	0.23238366	2.6201872	21	1 30.5	17.5
31362 1998 VU_{41}	14.8	X	94.62759	161.41549	129.08880	2.96262	0.0849946	0.29632720	2.2282045	21	12 9.9	17.8
31363 Shulga	15.3	X	92.35889	358.31120	97.84456	3.23302	0.1720735	0.27298041	2.3535047	21	3 20.7	17.8
31364 1998 WM_{6}	16.1	X	163.32347	200.38408	92.89932	2.56826	0.0678538	0.30943944	2.1648058	21	—	—
31365 1998 WF_{7}	14.6	X	116.26186	219.63399	69.29669	8.03100	0.2076106	0.26154384	2.4216222	21	12 28.9	18.7
31366 1998 WF_{8}	15.0	X	214.60066	138.04465	282.31552	6.13715	0.0917738	0.28487653	2.2875202	21	6 16.2	18.0
31367 1998 WB_{9}	13.9	X	217.28451	256.99241	85.16215	24.23676	0.3159755	0.27706615	2.3303102	21	3 16.7	18.7
31368 1998 WW_{23}	12.5	X	149.99480	105.97410	91.09305	15.24097	0.2527244	0.19751807	2.9201029	21	10 10.6	17.9
31369 1998 WX_{26}	15.8	X	72.05625	90.20184	114.07591	1.89654	0.1815454	0.28026365	2.3125521	21	7 26.3	18.3
31370 1998 XS_{3}	14.1	X	85.23350	27.28875	44.81819	3.43711	0.1296381	0.18453438	3.0555157	21	2 15.4	18.0
31371 1998 XN_{10}	15.4	X	48.79099	32.70470	128.41014	3.00238	0.1596126	0.27208409	2.3586706	21	4 5.3	17.4
31372 1998 XN_{11}	14.6	X	252.18210	122.67831	78.03701	6.65977	0.0768897	0.30442548	2.1885109	21	—	—
31373 1998 XN_{12}	13.4	X	97.84351	85.98185	73.26316	14.77510	0.1023624	0.23236657	2.6203157	21	6 14.6	17.0
31374 Hruskova	15.7	X	175.78496	48.89452	42.03877	1.46635	0.1356118	0.28380716	2.2932627	21	6 14.2	19.2
31375 Krystufek	15.2	X	227.72031	103.74867	340.23912	4.84135	0.0297370	0.28871751	2.2671868	21	8 13.8	18.0
31376 Leobauersfeld	15.4	X	341.76671	14.75239	39.96887	8.94941	0.1082907	0.30015403	2.2092249	21	12 29.8	17.6
31377 Kleinwort	14.9	X	103.07396	249.94647	294.32210	5.47363	0.1359316	0.28318038	2.2966454	21	7 31.3	17.9
31378 Neidinger	15.0	X	33.66271	135.02797	29.72965	2.75334	0.1504726	0.27258208	2.3557969	21	3 7.9	16.8
31379 1998 XX_{51}	13.8	X	69.01930	151.11799	63.38899	19.77185	0.1901987	0.23855487	2.5748021	21	8 12.8	17.6
31380 Hegyesi	15.1	X	50.57972	103.05859	7.17671	6.89814	0.0607211	0.27118449	2.3638840	21	1 17.3	17.7
31381 1998 XW_{86}	13.7	X	152.09235	320.66319	236.49043	8.98731	0.0361559	0.29356228	2.2421735	21	10 8.7	16.7
31382 1998 XN_{89}	13.3	X	8.22690	328.07849	263.73722	12.88294	0.1177064	0.23549464	2.5970603	21	5 1.3	16.3
31383 1998 XJ_{94}	14.0	X	230.30687	53.20671	175.88066	4.44149	0.0993235	0.30513099	2.1851362	21	—	—
31384 1998 XE_{96}	15.4	X	273.13799	261.01752	119.04953	7.02471	0.0994335	0.28499305	2.2868967	21	7 3.3	18.2
31385 1998 XF_{96}	14.0	X	36.46848	155.12432	123.24946	14.52818	0.1395387	0.24093429	2.5578219	21	9 11.5	17.1
31386 1998 YG_{1}	14.6	X	129.96880	234.66238	11.31033	4.59439	0.0959824	0.29413027	2.2392860	21	11 19.6	17.8
31387 Lehoucq	14.6	X	257.44407	228.18916	321.53836	4.43346	0.0504763	0.30099784	2.2050941	21	—	—
31388 1998 YL_{2}	15.7	X	354.49508	93.01831	93.93428	2.20332	0.1273235	0.26798055	2.3826881	21	1 27.1	18.0
31389 Alexkaplan	15.2	X	327.41740	74.20633	98.82559	3.39005	0.1234400	0.26328646	2.4109250	21	—	—
31390 1998 YB_{4}	15.5	X	326.20305	129.99670	261.63173	6.86358	0.2057712	0.29586902	2.2305042	21	10 19.7	16.9
31391 1998 YA_{5}	16.2	X	125.55194	41.42355	168.67397	3.23300	0.0463998	0.29338722	2.2430653	21	9 26.0	18.9
31392 1998 YJ_{5}	13.6	X	95.07225	169.15028	52.85253	15.52896	0.0608273	0.23667388	2.5884264	21	9 8.7	17.5
31393 1998 YG_{8}	14.9	X	90.20877	154.12528	201.60137	3.52677	0.0190400	0.30310560	2.1948596	21	—	—
31394 1998 YX_{9}	16.0	X	155.55020	246.68024	237.68139	1.29396	0.1668212	0.28268041	2.2993526	21	7 9.7	19.5
31395 1998 YB_{11}	15.5	X	44.36451	251.94811	310.50891	4.26252	0.0974397	0.27622913	2.3350153	21	5 21.4	17.9
31396 1998 YQ_{12}	14.5	X	15.04026	167.05875	102.57862	8.26969	0.1022408	0.28226220	2.3016233	21	7 13.7	16.6
31397 1998 YR_{15}	14.6	X	347.54695	23.72555	261.59709	2.79943	0.2254206	0.28094771	2.3087968	21	5 31.8	16.0
31398 1998 YU_{29}	14.7	X	27.51077	342.77619	66.72732	11.74522	0.2559026	0.26003867	2.4309578	21	—	—
31399 1998 YF_{30}	13.2	X	92.95248	137.60968	30.95830	14.66130	0.1028160	0.23627792	2.5913175	21	6 20.2	16.9
31400 Dakshdua	15.3	X	130.20529	40.19395	111.63960	3.24163	0.0998896	0.28648056	2.2789735	21	7 15.2	18.1
31401 1999 AK	13.3	X	357.57793	304.52524	249.60979	7.60391	0.1385529	0.22619312	2.6677786	21	2 15.9	16.4
31402 Negishi	12.8	X	75.40275	313.14904	305.80887	16.48194	0.1782353	0.24413021	2.5354499	21	9 30.8	16.8
31403 1999 AV	15.0	X	69.30548	146.78621	4.37615	3.25438	0.1918333	0.27456790	2.3444243	21	5 2.8	17.3
31404 1999 AL_{1}	16.0	X	139.22173	240.16660	176.68798	0.36198	0.1956794	0.27456271	2.3444538	21	3 28.5	19.2
31405 1999 AD_{2}	14.7	X	151.67365	173.21998	61.26153	4.99938	0.1073554	0.29444330	2.2376986	21	11 28.8	17.9
31406 1999 AA_{4}	14.4	X	146.83934	284.88198	344.75650	5.69159	0.1735196	0.25212864	2.4815399	21	12 30.3	18.5
31407 1999 AP_{4}	13.8	X	303.43854	195.31953	114.40768	16.22831	0.1154985	0.23429804	2.6058952	21	5 13.7	17.5
31408 1999 AV_{4}	14.7	X	60.80259	62.25792	78.10866	3.07168	0.1520327	0.27183128	2.3601327	21	3 27.6	16.8
31409 1999 AB_{5}	14.4	X	51.32573	121.25333	95.40244	6.50244	0.1295233	0.27833631	2.3232154	21	7 1.6	16.7
31410 1999 AY_{5}	14.9	X	272.74526	349.10342	78.94394	7.01614	0.1276573	0.29019179	2.2595015	21	9 12.6	17.5
31411 1999 AU_{9}	15.0	X	73.36851	308.77473	76.13857	5.39074	0.1279397	0.30338106	2.1935308	21	—	—
31412 1999 AP_{20}	15.4	X	125.86986	241.92186	141.31324	3.82552	0.1913712	0.31190521	2.1533814	21	1 18.9	17.5
31413 1999 AR_{21}	15.5	X	124.29480	229.21474	301.20064	1.82465	0.0780391	0.28216897	2.3021302	21	7 31.7	18.5
31414 Rotarysusa	15.0	X	28.35974	145.72192	161.91030	5.37774	0.1524188	0.29002838	2.2603501	21	10 17.3	17.2
31415 1999 AK_{23}	14.7	X	255.18015	196.68763	158.61735	6.84052	0.2690976	0.28724049	2.2749522	21	4 20.5	18.4
31416 Peteworden	15.4	X	313.97299	27.88414	139.93783	3.15770	0.1386994	0.26005908	2.4308307	21	—	—
31417 1999 AD_{32}	14.0	X	354.45435	90.69896	115.67643	7.32905	0.0578086	0.27224160	2.3577607	21	3 6.3	16.7
31418 1999 AJ_{34}	15.0	X	231.45113	345.16957	167.22253	4.12403	0.0887505	0.29378754	2.2410272	21	11 16.6	17.6
31419 1999 AN_{37}	16.3	X	149.13554	42.69803	94.09995	1.54536	0.1568276	0.28296962	2.2977856	21	7 19.9	19.7
31420 1999 BV	15.5	X	319.35071	353.76743	15.83847	6.09621	0.2075893	0.29117038	2.2544361	21	8 26.0	16.9
31421 1999 BZ	13.5	X	95.13509	85.35224	72.99606	22.89372	0.0412628	0.23072320	2.6327435	21	6 1.4	17.0
31422 1999 BE_{1}	15.5	X	218.38817	208.90743	312.10450	4.03770	0.0916006	0.29427246	2.2385646	21	11 7.9	18.4
31423 1999 BR_{2}	14.8	X	115.02624	93.70510	70.74175	7.57717	0.0370818	0.28042624	2.3116582	21	7 5.8	17.6
31424 1999 BW_{2}	14.6	X	103.19336	180.60021	354.50683	11.55636	0.0678442	0.27997876	2.3141206	21	7 11.9	17.7
31425 1999 BF_{3}	13.6	X	248.94878	77.14310	113.57059	8.81658	0.1960280	0.25553595	2.4594314	21	—	—
31426 1999 BA_{5}	14.6	X	215.85030	299.27147	47.47451	1.26782	0.0905134	0.27060035	2.3672846	21	3 11.8	17.9
31427 1999 BS_{5}	15.4	X	288.19238	290.66228	260.56197	0.65578	0.1411646	0.26026695	2.4295362	21	—	—
31428 1999 BG_{6}	14.6	X	308.73184	22.91362	156.27497	11.90936	0.1038062	0.25902238	2.4373123	21	—	—
31429 Diegoazzaro	14.7	X	5.00956	196.07008	72.91505	7.93071	0.1017620	0.28055629	2.3109437	21	6 21.9	16.8
31430 1999 BX_{8}	14.8	X	46.11244	279.97318	192.35907	2.20623	0.1538156	0.26738747	2.3862101	21	1 11.6	16.8
31431 Cabibbo	14.3	X	201.94479	119.30567	135.22295	9.89418	0.2655371	0.21510651	2.7586737	21	—	—
31432 1999 BY_{12}	13.2	X	309.62232	9.88909	301.33186	19.29570	0.2565224	0.19182063	2.9776422	21	4 19.7	17.6
31433 1999 BA_{13}	15.6	X	338.63227	296.77995	259.50200	1.89780	0.1175691	0.26747626	2.3856820	21	1 16.5	18.2
31434 1999 BQ_{13}	14.7	X	24.25976	112.66545	331.63011	5.37247	0.0848867	0.30279970	2.1963376	21	—	—
31435 Benhauck	14.8	X	279.17430	99.79680	50.79351	4.74988	0.1036741	0.29526408	2.2335498	21	—	—
31436 1999 BJ_{15}	14.7	X	19.82065	331.61233	265.05326	4.17559	0.0940490	0.23273715	2.6175335	21	6 1.8	17.6
31437 Verma	15.0	X	343.19245	145.58370	80.02564	6.60672	0.1666073	0.27294959	2.3536818	21	2 28.7	17.5
31438 Yasuhitohayashi	15.3	X	61.02443	107.89038	43.29098	3.12674	0.1809411	0.27418331	2.3466160	21	4 16.5	17.1
31439 Mieyamanaka	14.7	X	70.75155	293.53653	277.55029	5.41912	0.1606251	0.28144643	2.3060686	21	7 29.6	17.3
31440 1999 BD_{26}	15.1	X	83.86744	50.06445	123.65428	5.57126	0.0831426	0.27789361	2.3256821	21	6 12.1	17.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
31441 1999 BE_{28}	15.3	X	128.51776	244.95908	131.10294	8.94127	0.1919530	0.26863665	2.3788070	21	1 22.4	18.3
31442 Stark	14.7	X	288.29840	229.01184	304.04120	1.83553	0.1285715	0.25953584	2.4340967	21	—	—
31443 1999 CL_{2}	15.6	X	273.21451	110.60188	278.32460	5.09628	0.1490665	0.28784488	2.2717666	21	7 8.2	18.2
31444 1999 CW_{2}	15.6	X	146.42381	211.25433	9.72791	3.76481	0.1157835	0.29165818	2.2519216	21	11 4.5	18.8
31445 1999 CS_{5}	14.0	X	100.79446	300.35408	94.82051	6.32307	0.1110824	0.26232102	2.4168368	21	—	—
31446 1999 CV_{5}	13.4	X	295.62639	20.20189	3.38085	15.25979	0.1193409	0.24047361	2.5610876	21	8 14.5	16.7
31447 1999 CB_{8}	14.6	X	113.43741	131.97385	297.09905	2.41229	0.0554675	0.31468282	2.1406912	21	2 11.9	16.9
31448 1999 CO_{8}	15.0	X	277.41677	117.51524	95.45461	3.67113	0.0793207	0.30430820	2.1890732	21	—	—
31449 1999 CO_{9}	14.3	X	213.32016	38.04104	48.79244	7.50028	0.0692399	0.28203483	2.3028601	21	7 25.9	17.4
31450 Stevepreston	13.2	X	207.64791	18.75461	323.91790	10.74256	0.2663124	0.26610739	2.3938564	21	2 25.9	17.4
31451 Joenickell	15.3	X	6.83954	165.14932	102.14956	5.20049	0.1386648	0.28637900	2.2795123	21	6 23.7	17.1
31452 1999 CX_{12}	14.9	X	346.50971	312.32889	188.04409	5.66504	0.0566529	0.21748084	2.7385586	21	—	—
31453 Arnaudthiry	14.1	X	164.64712	99.67911	177.17111	8.81418	0.1757543	0.20983345	2.8046989	21	—	—
31454 1999 CH_{14}	14.3	X	252.85578	76.77895	356.51022	5.09361	0.1660523	0.28444018	2.2898591	21	8 12.9	17.3
31455 1999 CU_{14}	13.9	X	118.57359	200.23613	165.56432	4.66670	0.0670204	0.21469041	2.7622371	21	—	—
31456 1999 CV_{14}	13.4	X	44.09374	302.66101	170.57188	15.89106	0.1743611	0.17648588	3.1477199	21	2 5.9	17.1
31457 1999 CW_{14}	15.3	X	311.90396	38.71525	171.53630	2.59511	0.1600722	0.26207822	2.4183293	21	—	—
31458 Delrosso	14.5	X	349.95607	276.47559	320.32677	7.03631	0.1733091	0.22981747	2.6396562	21	3 29.7	17.3
31459 1999 CB_{17}	13.2	X	178.30788	222.35854	112.24792	14.35665	0.1875026	0.22516056	2.6759285	21	1 28.9	17.5
31460 Jongsowfei	14.4	X	347.33228	32.48079	321.12719	7.82847	0.1782634	0.29115589	2.2545109	21	10 4.0	16.0
31461 Shannonlee	14.3	X	112.04945	136.07036	65.46342	6.86445	0.1440015	0.24029762	2.5623379	21	9 6.1	18.2
31462 Brchnelova	15.2	X	262.70641	60.68778	79.14497	3.45183	0.0794372	0.29670852	2.2262950	21	12 15.9	17.4
31463 Michalgeci	15.1	X	101.24741	89.16081	127.68390	3.97724	0.0931726	0.28457679	2.2891262	21	9 9.4	18.0
31464 Liscinsky	14.7	X	320.92551	30.92988	347.78303	7.78880	0.1790437	0.29103648	2.2551275	21	9 15.2	16.0
31465 Piyasiri	14.8	X	299.73480	110.27378	81.05041	3.46269	0.1179624	0.26171861	2.4205440	21	—	—
31466 Abualhassan	14.7	X	308.98896	141.52970	73.72461	3.16629	0.1283171	0.26522214	2.3991802	21	1 2.1	17.9
31467 1999 CG_{29}	15.5	X	245.48964	16.90517	330.25421	6.12117	0.2322075	0.27685304	2.3315059	21	3 31.5	19.4
31468 Albastaki	15.5	X	64.73359	352.41851	96.20038	3.29746	0.1821284	0.26749224	2.3855870	21	1 17.6	17.2
31469 Aizawa	14.5	X	28.95812	132.05740	82.80578	5.37461	0.1548858	0.27466591	2.3438665	21	5 18.3	16.3
31470 Alagappan	15.1	X	61.19043	271.76893	319.04999	2.91171	0.1396595	0.23603652	2.5930840	21	8 8.6	18.2
31471 Sallyalbright	14.3	X	293.87948	65.08693	40.41647	6.04964	0.0781601	0.29627167	2.2284829	21	12 17.1	16.5
31472 1999 CT_{36}	14.6	X	255.66884	299.34758	89.59489	6.76009	0.2101796	0.28431559	2.2905279	21	6 8.1	17.8
31473 Guangning	14.3	X	278.47551	243.18310	14.99850	5.14242	0.0915421	0.22274365	2.6952506	21	2 4.5	18.3
31474 Advaithanand	15.0	X	122.70407	65.20600	109.34818	4.80737	0.0738662	0.28196556	2.3032372	21	8 4.9	17.8
31475 Robbacchus	14.7	X	74.26253	272.67599	346.29934	6.00586	0.1210189	0.28521062	2.2857335	21	10 4.6	17.5
31476 Bocconcelli	15.0	X	228.42096	179.52927	55.45594	3.36612	0.1479924	0.25637913	2.4540360	21	—	—
31477 Meenakshi	15.0	X	128.66214	176.26258	21.82761	4.45495	0.0914566	0.28485014	2.2876615	21	9 16.5	18.0
31478 1999 CJ_{45}	14.0	X	278.92178	334.51887	349.74858	7.16852	0.1614094	0.27534693	2.3400002	21	4 11.2	17.3
31479 Botello	14.7	X	20.91738	245.35142	1.23066	6.52515	0.0731298	0.27740404	2.3284176	21	6 15.3	17.2
31480 Jonahbutler	14.9	X	220.33201	120.78012	342.87313	4.21517	0.1230119	0.28626465	2.2801193	21	8 20.5	18.0
31481 1999 CX_{47}	14.3	X	341.22122	10.24486	224.40185	0.23102	0.0846017	0.18241121	3.0791797	21	4 2.4	18.3
31482 Caddell	15.1	X	84.30842	25.71798	115.74623	3.09484	0.0770029	0.22943927	2.6425561	21	4 30.8	18.4
31483 Caulfield	15.2	X	20.05024	119.96033	87.83548	3.19113	0.1516154	0.27173428	2.3606944	21	4 17.1	17.0
31484 1999 CC_{49}	13.7	X	50.50432	152.64687	133.84172	16.92288	0.2588159	0.19635399	2.9316327	21	10 28.4	18.0
31485 1999 CM_{51}	13.2	X	161.14097	48.50504	346.92573	14.64291	0.2040530	0.22793560	2.6541651	21	3 24.3	17.7
31486 1999 CR_{52}	14.7	X	273.93514	210.22519	72.35254	12.43880	0.1339404	0.22406067	2.6846786	21	2 28.9	18.9
31487 Parthchopra	15.0	X	248.29810	147.17077	16.99112	6.33721	0.1079192	0.29579721	2.2308652	21	12 23.7	17.4
31488 1999 CM_{53}	14.2	X	244.11867	115.39756	121.81480	8.16523	0.0433487	0.21530457	2.7569817	21	—	—
31489 Matthewchun	14.7	X	62.08728	320.28323	119.96909	6.84892	0.0992415	0.26394127	2.4069358	21	—	—
31490 Swapnavdeka	14.6	X	225.02602	146.31789	93.49272	5.54769	0.1394933	0.25593436	2.4568783	21	—	—
31491 Demessie	14.6	X	84.33389	26.39606	338.83089	3.13335	0.0057838	0.25597302	2.4566310	21	—	—
31492 Jennarose	14.9	X	8.84713	294.94245	116.16800	5.64387	0.1423133	0.29833350	2.2182034	21	—	—
31493 Fernando–Peiris	14.9	X	61.53420	202.08672	33.73741	7.32370	0.1727565	0.23454607	2.6040578	21	8 25.2	18.3
31494 Emmafreedman	14.6	X	329.95547	75.45486	277.37449	2.60729	0.1935057	0.28718163	2.2752630	21	8 20.0	16.1
31495 Sarahgalvin	15.4	X	15.60639	262.23703	285.72802	2.28003	0.1197025	0.27010539	2.3701757	21	3 6.0	17.8
31496 Glowacz	14.6	X	311.09473	185.59365	267.81497	2.20775	0.0455440	0.25255994	2.4787139	21	12 17.7	17.5
31497 1999 CW_{61}	14.1	X	229.97965	95.59852	290.58907	12.08426	0.2107649	0.23780821	2.5801888	21	5 9.1	18.6
31498 1999 CX_{61}	13.3	X	343.31269	27.43149	275.96319	11.14551	0.2419729	0.23749524	2.5824551	21	6 22.5	15.3
31499 1999 CS_{64}	12.7	X	18.69425	201.97101	281.37595	15.85807	0.0933118	0.17639131	3.1488449	21	1 7.9	16.5
31500 Grutzik	14.9	X	28.90743	6.41180	265.39337	3.86628	0.1385587	0.28195698	2.3032840	21	8 16.2	17.0
31501 Williamhang	15.1	X	279.26152	211.27131	308.03794	2.09742	0.1424638	0.25582549	2.4575753	21	—	—
31502 Hellerstein	15.3	X	261.53967	305.63394	252.23293	2.38899	0.1636161	0.25692486	2.4505598	21	—	—
31503 Jessicahong	15.0	X	211.61812	249.65131	227.98219	5.64395	0.1882401	0.24322164	2.5417602	21	8 18.9	19.1
31504 Jaisonjain	15.1	X	327.29569	351.23836	206.24080	5.83879	0.0572713	0.26557517	2.3970536	21	1 11.2	18.2
31505 1999 CE_{74}	14.2	X	224.97620	342.12493	271.74174	1.60896	0.1389561	0.25858013	2.4400906	21	—	—
31506 1999 CZ_{76}	14.3	X	176.64904	44.22319	268.57866	4.62028	0.1419777	0.26079657	2.4262458	21	—	—
31507 Williamjin	15.1	X	206.36184	191.45332	301.61851	5.06033	0.0988384	0.28671339	2.2777396	21	9 13.1	18.1
31508 Kanevsky	14.5	X	252.83678	315.11204	343.84388	1.75025	0.0387975	0.27175170	2.3605935	21	2 21.9	17.6
31509 1999 CT_{84}	15.5	X	174.89870	357.45565	39.75184	10.67554	0.1735096	0.27685177	2.3315130	21	4 7.9	19.1
31510 Saumya	15.8	X	283.57715	34.24441	71.49943	5.85681	0.1316234	0.29638291	2.2279252	21	11 24.4	17.6
31511 Jessicakim	15.0	X	139.52174	151.30244	358.82782	3.28128	0.1256654	0.23852127	2.5750439	21	7 25.7	18.8
31512 Koyyalagunta	14.7	X	32.75365	184.88161	67.71418	4.94835	0.0480199	0.23728990	2.5839447	21	7 13.6	17.9
31513 Lafazan	15.3	X	106.22253	272.72505	105.39515	7.84791	0.1391653	0.26369279	2.4084477	21	—	—
31514 1999 CL_{101}	13.9	X	132.81074	274.97972	14.67610	6.96696	0.0349131	0.25212035	2.4815943	21	—	—
31515 1999 CN_{101}	14.3	X	238.66852	278.88715	113.34994	9.70169	0.0716143	0.23490464	2.6014071	21	6 10.8	18.0
31516 Leibowitz	14.6	X	286.82819	184.46638	32.79837	5.49054	0.1454650	0.26064963	2.4271576	21	—	—
31517 Mahoui	14.5	X	340.35513	294.93250	208.20978	5.20861	0.0758929	0.26284842	2.4136028	21	—	—
31518 1999 CG_{103}	13.9	X	316.82938	106.58840	156.09247	13.00318	0.1515790	0.22916308	2.6446789	21	3 20.3	17.2
31519 Mimamarquez	15.1	X	113.29371	9.68946	185.70091	6.56523	0.0573630	0.28452628	2.2893971	21	8 18.0	18.0
31520 1999 CB_{105}	14.5	X	106.82934	262.45774	173.34691	15.53075	0.1698429	0.22791706	2.6543091	21	3 18.3	17.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
31521 1999 CT_{106}	14.0	X	44.78651	0.28270	209.31765	12.76407	0.1195640	0.23264923	2.6181928	21	6 9.0	17.1
31522 McCutchen	15.8	X	20.36278	280.39255	154.39831	7.65773	0.1031683	0.25925962	2.4358253	21	—	—
31523 Jessemichel	14.9	X	147.51935	237.83661	192.13287	5.35768	0.0732208	0.23000610	2.6382127	21	4 15.6	18.7
31524 1999 CE_{112}	14.2	X	107.22730	353.76766	245.94138	10.45910	0.1715008	0.24187125	2.5512120	21	10 15.5	18.3
31525 Nickmiller	14.9	X	330.41103	350.82075	231.70754	6.12554	0.1293625	0.26729551	2.3867574	21	2 5.3	17.8
31526 1999 CW_{124}	13.6	X	351.88217	201.13897	64.89401	15.35442	0.0487908	0.23372251	2.6101714	21	5 28.7	16.6
31527 1999 CM_{126}	13.6	X	60.83289	102.99149	67.67129	15.68006	0.2017519	0.22953023	2.6418579	21	5 24.6	16.5
31528 1999 CU_{126}	14.4	X	333.19632	259.46275	78.24013	23.23580	0.2419625	0.28392684	2.2926183	21	7 31.1	16.3
31529 1999 CW_{127}	13.7	X	140.46670	328.76808	60.93034	22.48562	0.0582450	0.22280791	2.6947324	21	2 25.1	18.0
31530 1999 CQ_{128}	13.9	X	217.82830	21.02575	76.03108	14.04968	0.1267669	0.24005264	2.5640809	21	8 9.8	18.0
31531 ARRL	14.6	X	47.06103	136.73884	157.03151	2.43016	0.0837391	0.19909165	2.9046960	21	10 1.2	18.5
31532 1999 CZ_{146}	14.7	X	251.23626	15.74125	306.38762	0.99985	0.2230568	0.22499745	2.6772216	21	3 12.9	19.1
31533 1999 CV_{148}	15.6	X	342.05509	16.76465	330.25347	0.85533	0.0916834	0.24351178	2.5397408	21	9 6.7	18.2
31534 1999 CE_{149}	15.2	X	21.36903	95.82979	189.94048	1.35457	0.1018577	0.23593216	2.5938486	21	8 16.6	18.0
31535 1999 CE_{150}	14.7	X	0.18702	103.03266	164.90511	9.64262	0.0786477	0.23125196	2.6287287	21	6 14.3	18.0
31536 1999 CX_{150}	14.1	X	315.41188	104.82818	159.74899	10.64398	0.2181491	0.17910301	3.1169808	21	3 17.3	18.1
31537 1999 DZ	15.4	X	303.12628	143.25024	0.29557	7.31228	0.1389768	0.29857710	2.2169967	21	—	—
31538 1999 DM_{1}	14.9	X	38.90618	339.74444	178.46377	25.05952	0.2623225	0.26922347	2.3753491	21	3 12.7	16.1
31539 1999 DQ_{1}	12.4	X	219.15040	288.51247	330.79059	17.03461	0.1768355	0.17082217	3.2169173	21	—	—
31540 1999 DK_{2}	13.2	X	169.27051	88.72821	43.59370	15.67134	0.0757619	0.23802299	2.5786364	21	8 7.2	17.3
31541 1999 DC_{3}	15.0	X	168.06247	151.06975	62.58741	7.68416	0.1398424	0.28899601	2.2657300	21	11 17.3	18.3
31542 1999 DR_{3}	12.2	X	49.95516	154.14656	76.06019	12.15968	0.0487806	0.18892377	3.0080033	21	7 7.4	16.2
31543 1999 DM_{5}	14.6	X	42.80792	326.54388	212.98376	14.38087	0.1229875	0.22861933	2.6488707	21	4 23.0	17.5
31544 1999 DZ_{5}	13.7	X	325.99783	336.50915	233.71332	13.95874	0.0779110	0.22218867	2.6997369	21	1 28.5	17.6
31545 1999 DN_{6}	13.6	X	142.99208	26.54403	144.21244	9.89128	0.2002394	0.23544301	2.5974399	21	8 28.0	17.8
31546 1999 DP_{6}	13.6	X	127.07152	64.81264	109.01621	15.80431	0.1258040	0.23268176	2.6179488	21	8 13.5	17.7
31547 1999 DT_{6}	13.3	X	170.02311	94.85147	76.10047	25.65899	0.0514544	0.23626379	2.5914208	21	10 8.4	17.6
31548 1999 DV_{6}	12.8	X	257.20395	37.99107	68.50675	16.16307	0.0392715	0.23774268	2.5806629	21	10 24.5	16.4
31549 1999 DY_{6}	13.6	X	137.91581	197.52198	60.24661	14.21830	0.1372323	0.24210139	2.5495950	21	12 5.4	17.6
31550 1999 DT_{7}	15.1	X	18.26938	345.93067	126.62228	7.09745	0.0239610	0.26053616	2.4278623	21	—	—
31551 1999 DV_{7}	15.0	X	130.10675	161.70235	3.96167	8.02876	0.1456178	0.28026096	2.3125669	21	8 10.1	18.4
31552 1999 EJ	13.9	X	247.88297	285.99185	323.04845	2.80860	0.1224386	0.21357194	2.7718725	21	—	—
31553 1999 EG_{2}	15.6	X	326.53989	338.28935	336.78843	0.47943	0.0860796	0.23362102	2.6109273	21	6 24.4	18.7
31554 1999 EJ_{2}	13.0	X	82.91358	55.88116	191.96453	14.87241	0.0805074	0.23693192	2.5865468	21	9 19.7	16.6
31555 Wheeler	15.0	X	181.71385	123.91558	50.58663	6.90956	0.0464247	0.28772792	2.2723822	21	10 18.8	17.9
31556 Shatner	14.8	X	243.37060	170.87541	149.89192	4.79986	0.2192528	0.22296242	2.6934874	21	3 6.2	19.4
31557 Holleybakich	14.5	X	183.44355	288.91007	11.88218	8.88670	0.1458436	0.21295036	2.7772638	21	—	—
31558 1999 EE_{6}	15.7	X	145.17719	94.07427	18.48031	6.32942	0.0969181	0.27443135	2.3452019	21	6 7.0	19.0
31559 Alonmillet	15.5	X	308.81866	345.37607	117.91201	6.12246	0.0894005	0.29540513	2.2328387	21	—	—
31560 1999 EQ_{14}	13.5	X	185.75566	12.41092	359.66020	9.10745	0.1865643	0.26903122	2.3764806	21	3 16.2	17.4
31561 1999 FT_{5}	14.6	X	345.53665	203.26062	8.82547	6.92756	0.0381617	0.26637273	2.3922664	21	3 3.6	17.4
31562 1999 FU_{6}	15.7	X	60.27081	32.23414	141.48270	3.21981	0.0734744	0.27574261	2.3377611	21	5 4.8	18.3
31563 1999 FW_{8}	14.7	X	342.75567	50.62001	118.96372	3.44749	0.1199896	0.26262215	2.4149889	21	—	—
31564 1999 FF_{9}	13.9	X	171.69246	57.95053	80.41135	5.93582	0.1237501	0.28148633	2.3058507	21	8 15.6	17.3
31565 1999 FO_{9}	14.3	X	229.42482	268.31529	150.13878	5.06084	0.1882039	0.28046548	2.3114426	21	6 22.8	17.9
31566 1999 FF_{10}	14.1	X	34.61933	271.34068	356.65279	13.56539	0.1250206	0.23426750	2.6061216	21	8 21.7	17.2
31567 1999 FG_{10}	14.9	X	138.82296	343.44090	168.72095	4.39557	0.1140262	0.23475277	2.6025289	21	7 24.9	18.9
31568 1999 FQ_{14}	15.2	X	75.84276	52.31461	27.03966	1.66918	0.1347973	0.26216838	2.4177748	21	1 22.6	17.6
31569 1999 FL_{18}	14.3	X	266.15773	57.85409	330.64281	6.39741	0.1232610	0.28001439	2.3139243	21	7 2.8	17.3
31570 1999 FG_{19}	14.3	X	162.65055	241.30162	280.26104	1.95625	0.1779157	0.23908755	2.5709763	21	8 31.9	18.6
31571 1999 FY_{20}	15.1	X	81.68548	158.79841	94.80603	3.44121	0.0371553	0.23812840	2.5778754	21	9 23.1	18.5
31572 1999 FM_{22}	13.9	X	273.43081	65.09410	281.28400	5.41993	0.1752975	0.27733631	2.3287966	21	5 3.4	17.2
31573 Mohanty	14.5	X	173.14973	211.61705	198.30593	4.71492	0.0523473	0.27291247	2.3538952	21	4 13.5	17.6
31574 Moshova	15.0	X	95.19260	333.52412	154.05920	6.05485	0.0734137	0.27062729	2.3671276	21	4 23.4	17.9
31575 Nikhilmurthy	15.4	X	169.52293	189.05045	340.13537	6.28200	0.0694425	0.28386418	2.2929557	21	9 21.6	18.6
31576 Nandigala	15.1	X	136.92810	258.11313	277.29535	3.30300	0.2006781	0.23653812	2.5894168	21	8 26.6	19.3
31577 1999 FO_{27}	14.2	X	111.18218	350.93468	181.96907	14.34632	0.0029537	0.23249100	2.6193807	21	7 5.6	18.0
31578 1999 FM_{29}	14.1	X	272.19052	101.15637	112.53682	4.86871	0.0398696	0.21286838	2.7779768	21	—	—
31579 1999 FX_{29}	14.1	X	253.07505	142.88217	125.78426	5.95575	0.1068518	0.17095818	3.2152109	21	1 26.5	18.8
31580 Bridgetoei	14.7	X	357.16845	94.31361	35.75291	4.46263	0.1460335	0.25910417	2.4367994	21	—	—
31581 Onnink	14.9	X	271.54211	69.03389	19.15360	5.52089	0.1146343	0.28724630	2.2749215	21	10 8.5	17.3
31582 Miraeparker	15.2	X	82.25531	20.13283	186.42359	3.19151	0.1073834	0.23232538	2.6206254	21	7 29.2	18.7
31583 1999 FP_{30}	13.7	X	23.17395	267.59443	258.68851	4.14897	0.0907514	0.17658172	3.1465808	21	3 7.7	17.6
31584 Emaparker	14.4	X	84.29944	68.49089	52.30432	7.50072	0.0570296	0.26773189	2.3841632	21	3 27.6	17.2
31585 1999 FJ_{31}	13.9	X	308.54603	249.49401	41.56334	11.97748	0.1923136	0.22392466	2.6857656	21	4 10.8	17.4
31586 1999 FA_{32}	13.2	X	349.65562	93.06571	186.66936	6.73281	0.1996285	0.18324799	3.0697987	21	6 7.8	16.4
31587 1999 FQ_{32}	15.2	X	5.59799	103.21549	53.23049	2.96484	0.1351458	0.26237667	2.4164950	21	1 2.8	17.7
31588 Harrypaul	14.8	X	189.93779	165.11680	121.30919	5.34937	0.0359245	0.21153511	2.7896373	21	—	—
31589 1999 FX_{33}	13.6	X	230.42262	268.62183	67.94534	6.51476	0.1148355	0.17790101	3.1310051	21	3 26.2	18.6
31590 1999 FS_{34}	14.4	X	123.86267	178.96566	3.75892	12.76846	0.1673607	0.23508262	2.6000939	21	8 27.2	18.5
31591 1999 FD_{35}	14.2	X	6.77090	313.14551	223.05058	0.41219	0.1415434	0.17590382	3.1546598	21	2 22.7	17.9
31592 Jacobplaut	15.0	X	258.32518	251.37559	230.41414	6.06264	0.1370656	0.29224515	2.2489054	21	11 2.2	17.2
31593 Romapradhan	15.4	X	284.56158	328.45629	94.12172	2.01282	0.0625274	0.28805561	2.2706585	21	9 30.8	17.9
31594 Drewprevost	15.2	X	214.38993	255.11107	325.07561	4.97819	0.0905459	0.25274219	2.4775222	21	—	—
31595 Noahpritt	15.0	X	353.61996	265.19355	119.05470	2.77074	0.1032049	0.29173435	2.2515296	21	12 2.3	17.0
31596 Ragavender	15.4	X	45.04974	1.68688	134.15016	1.81367	0.1349726	0.26719176	2.3873752	21	2 14.8	17.6
31597 Allisonmarie	14.7	X	317.24878	334.66894	193.76983	5.98864	0.0817893	0.25956634	2.4339060	21	—	—
31598 Danielrudin	14.4	X	158.94786	306.11182	6.88385	6.49309	0.1238688	0.25685602	2.4509976	21	—	—
31599 Chloesherry	14.3	X	304.62068	285.27622	29.62278	8.19474	0.0891949	0.27562787	2.3384099	21	5 15.5	17.2
31600 Somasundaram	14.8	X	318.13301	273.05026	212.00343	4.62936	0.1123289	0.21120971	2.7925018	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
31601 1999 GF	13.5	X	2.96484	312.23716	358.28736	14.74263	0.1297763	0.23572553	2.5953641	21	8 27.6	16.3
31602 1999 GG	13.9	X	291.59566	136.95186	163.06292	0.38873	0.1380458	0.18035335	3.1025579	21	4 10.4	18.2
31603 1999 GQ_3	13.6	X	342.46917	131.37947	201.34587	7.42012	0.1443062	0.23309375	2.6148631	21	8 11.8	16.4
31604 1999 GH_4	14.5	X	29.87827	331.84241	243.36985	5.94905	0.0687188	0.27053143	2.3676867	21	5 14.0	17.0
31605 Braschi	14.0	X	252.65816	296.09060	28.38784	7.05418	0.1137728	0.22373569	2.6872777	21	3 27.8	17.9
31606 1999 GX_4	15.5	X	208.54311	338.79844	154.04839	2.62065	0.1652369	0.24081739	2.5586496	21	9 8.7	19.4
31607 1999 GQ_5	14.2	X	286.48188	261.82498	33.09814	3.26644	0.0476485	0.22453801	2.6808723	21	4 6.1	17.6
31608 1999 GR_5	14.1	X	224.88055	233.28650	235.34686	8.81655	0.0469358	0.19160177	2.9799093	21	8 30.2	18.6
31609 1999 GT_5	13.5	X	272.72092	152.70064	110.99181	0.50213	0.1238612	0.17207311	3.2013074	21	2 7.7	18.2
31610 1999 GC_6	13.0	X	130.16405	203.08595	60.81178	15.93030	0.0812683	0.24371826	2.5383062	21	12 4.4	16.7
31611 1999 GF_6	14.3	X	82.76411	280.30334	141.47056	6.50576	0.1145576	0.25941947	2.4348245	21	1 6.9	16.8
31612 1999 GG_6	14.7	X	308.50328	355.26491	171.27438	9.16934	0.0847365	0.21104765	2.7939311	21	—	—
31613 1999 GO_8	14.5	X	358.29998	295.95714	95.92288	3.84353	0.0286306	0.24420398	2.5349392	21	12 1.2	17.7
31614 1999 GV_{10}	13.7	X	190.00693	158.79921	163.02078	1.81311	0.1467426	0.16953121	3.2332276	21	1 29.0	18.9
31615 1999 GF_{16}	13.6	X	114.34114	26.28385	31.50253	2.96927	0.0856375	0.17506566	3.1647208	21	3 1.5	18.1
31616 1999 GM_{17}	12.8	X	349.51573	178.26754	74.52884	10.72679	0.0405061	0.18314971	3.0708968	21	5 13.3	16.9
31617 Meeraradha	14.7	X	108.25353	193.31187	39.88943	9.27767	0.1310636	0.28317109	2.2966956	21	10 14.2	17.9
31618 Tharakan	14.9	X	185.45246	136.16149	73.58694	7.15837	0.0618598	0.29142842	2.2531051	21	12 7.4	17.7
31619 Jodietinker	15.2	X	226.49609	94.00799	72.92932	5.84350	0.1332590	0.29110196	2.2547893	21	11 22.0	17.8
31620 1999 GB_{19}	14.2	X	117.65785	72.75711	74.72043	12.88691	0.0939893	0.27531245	2.3401955	21	6 22.0	17.3
31621 1999 GH_{19}	13.8	X	359.39883	106.93702	175.23278	11.43377	0.1967687	0.18501971	3.0501700	21	7 1.7	17.2
31622 1999 GL_{19}	13.9	X	62.71738	355.68811	192.30332	6.35081	0.0436693	0.27208919	2.3586411	21	5 25.9	16.7
31623 1999 GK_{20}	13.5	X	277.29246	225.96260	122.11458	4.69278	0.1183101	0.22800370	2.6536367	21	5 24.7	17.2
31624 1999 GP_{20}	13.5	X	164.98018	101.65291	38.61435	12.67336	0.1275016	0.23513655	2.5996963	21	8 12.9	17.8
31625 1999 GR_{20}	14.1	X	91.47231	242.62813	40.12539	10.81914	0.1021608	0.24080773	2.5587180	21	11 17.3	17.8
31626 1999 GV_{20}	13.1	X	229.64495	307.42033	64.72272	11.69184	0.0711236	0.18183738	3.0856543	21	5 8.6	17.7
31627 Ulmera	14.4	X	55.02088	64.59348	89.95678	7.39518	0.0471801	0.26712007	2.3878023	21	3 30.6	17.2
31628 Vorperian	15.0	X	158.30211	202.89668	15.62282	5.08974	0.0997140	0.24454275	2.5325976	21	11 7.5	18.8
31629 1999 GK_{23}	15.3	X	105.54144	308.97692	170.79943	2.66500	0.2055656	0.27323224	2.3520584	21	5 15.8	18.4
31630 Jennywang	14.9	X	33.77131	271.11158	257.69116	3.69506	0.1774389	0.22441329	2.6818655	21	3 23.2	17.5
31631 Abbywilliams	14.2	X	51.57873	222.25333	171.30029	6.71199	0.1590459	0.25228124	2.4805391	21	—	—
31632 Stephaying	14.7	X	9.65017	38.24479	143.84141	3.77042	0.0308183	0.22072706	2.7116418	21	3 4.8	18.2
31633 Almonte	14.5	X	324.55085	84.59058	143.87727	1.67758	0.1394559	0.17501000	3.1653918	21	2 24.1	18.7
31634 1999 GG_{31}	14.4	X	147.50458	2.55956	144.08157	1.78474	0.0702880	0.18887462	3.0085252	21	7 24.2	19.0
31635 Anandarao	14.3	X	244.15091	50.23139	82.03622	3.66074	0.0119279	0.19902901	2.9053054	21	11 2.4	18.2
31636 1999 GB_{32}	13.9	X	59.31822	202.04411	79.15440	5.10037	0.1484483	0.19255068	2.9701110	21	10 11.9	18.0
31637 Bhimaraju	15.0	X	293.69092	334.97853	109.03858	1.90995	0.0926032	0.24410738	2.5356080	21	11 3.5	17.7
31638 1999 GL_{32}	13.6	X	277.32600	317.08038	28.87795	16.65141	0.2104127	0.22678357	2.6631461	21	5 5.1	17.7
31639 Bodoni	15.3	X	122.15438	185.59661	327.98002	3.98647	0.1049320	0.27761985	2.3272107	21	7 8.8	18.4
31640 Johncaven	14.9	X	150.38503	339.25677	211.04911	4.46541	0.1770017	0.24021440	2.5629296	21	9 25.7	19.0
31641 Cevasco	14.9	X	349.66969	215.88342	278.30473	1.21544	0.1305427	0.25899692	2.4374721	21	—	—
31642 Soyounchoi	15.2	X	64.38439	272.68767	239.14500	1.39911	0.1439656	0.22496284	2.6774962	21	4 23.8	18.3
31643 Natashachugh	14.9	X	221.77271	65.63933	104.91681	4.98619	0.0944539	0.29090473	2.2558083	21	11 27.0	17.6
31644 1999 GY_{41}	14.1	X	341.51521	277.20626	127.49207	7.17097	0.1140508	0.29028770	2.2590038	21	12 12.6	16.2
31645 1999 GJ_{42}	13.5	X	256.59861	176.51216	104.47008	8.99356	0.1854463	0.21661530	2.7458489	21	2 1.9	18.0
31646 1999 GQ_{44}	13.1	X	11.60702	215.46820	79.55704	11.96811	0.0779033	0.18950005	3.0019019	21	8 12.8	17.0
31647 1999 GY_{51}	15.1	X	6.01473	306.71380	218.95997	7.47995	0.1448424	0.26363436	2.4088035	21	1 12.8	17.7
31648 1999 GL_{53}	14.1	X	152.16867	211.28651	1.09142	13.04869	0.1083045	0.24129727	2.5552562	21	10 21.4	18.2
31649 1999 GL_{55}	13.5	X	255.47003	113.80332	338.96453	1.17127	0.0245850	0.19660360	2.9291508	21	9 24.3	17.4
31650 Frýdek–Místek	14.0	X	191.16472	166.46505	185.42284	14.00106	0.1846163	0.21676774	2.7445614	21	2 27.2	18.6
31651 1999 HH_2	14.5	X	57.41689	149.10184	58.43761	8.50724	0.0849127	0.27417486	2.3466643	21	6 20.3	17.1
31652 1999 HS_2	14.7	X	319.28712	337.63655	185.57487	2.21610	0.1481695	0.25857869	2.4400997	21	—	—
31653 1999 HH_4	14.3	X	70.25720	314.18534	173.50409	1.04119	0.1449784	0.17725300	3.1386314	21	4 7.2	18.1
31654 1999 HJ_5	14.7	X	104.60433	303.48730	204.85120	5.82408	0.0926407	0.27200998	2.3590989	21	6 6.7	17.6
31655 Averyclowes	14.3	X	278.82486	234.47522	207.76660	7.51208	0.0441591	0.24075246	2.5591096	21	10 14.2	17.3
31656 1999 HL_8	12.9	X	75.11459	325.30234	202.86461	9.44129	0.0375423	0.18390823	3.0624472	21	5 20.9	17.1
31657 1999 HN_8	13.9	X	79.93042	330.68087	250.05597	6.88348	0.0825543	0.27821775	2.3238754	21	8 10.8	16.9
31658 1999 HU_8	13.9	X	350.71985	132.15824	209.08722	9.41138	0.0951710	0.19244939	2.9711530	21	9 4.7	17.6
31659 1999 HT_{10}	13.6	X	345.73643	144.31962	27.88817	5.97293	0.1137162	0.17185014	3.2040759	21	1 21.3	17.8
31660 Maximiliandu	15.3	X	113.22743	132.60593	21.43747	3.11497	0.1781873	0.27518162	2.3409372	21	7 7.3	18.5
31661 Eggebraaten	14.5	X	92.62619	214.94955	211.60283	4.74022	0.1070373	0.26073192	2.4266468	21	1 26.9	17.2
31662 1999 HP_{11}	19.4	X	293.15799	312.01921	13.94825	18.81703	0.5480469	0.48810818	1.5975655	21	3 12.6	22.3
31663 1999 JG_2	15.0	X	164.70689	355.22102	90.49233	7.88553	0.0787387	0.27281878	2.3544341	21	5 25.2	18.3
31664 Randiiwessen	13.7	X	103.34063	15.45458	236.71707	13.64393	0.0545227	0.23705983	2.5856162	21	10 15.9	17.4
31665 Veblen	14.4	X	45.75132	96.78569	142.36170	2.32709	0.0916020	0.18506149	3.0497109	21	7 18.3	18.2
31666 1999 JK_3	13.5	X	45.64814	204.38229	97.76576	14.33597	0.1573439	0.23419329	2.6066722	21	11 1.4	17.1
31667 1999 JL_3	14.3	X	141.78685	321.18795	210.67102	22.81839	0.2260880	0.27865324	2.3214535	21	8 24.3	18.6
31668 1999 JX_3	13.0	X	326.30727	238.27325	117.17263	11.15711	0.1267448	0.18824686	3.0152099	21	8 16.7	16.6
31669 1999 JT_6	15.9	X	78.60145	39.10025	78.81827	9.54297	0.5783460	0.31574829	2.1358728	21	6 2.6	18.7
31670 1999 JL_7	14.2	X	300.41492	186.15670	167.74202	10.66281	0.0138542	0.18663900	3.0325021	21	7 16.8	18.5
31671 Masatoshi	14.5	X	70.84348	292.75669	328.58261	2.06365	0.1980999	0.18969289	2.9998671	21	10 4.5	18.7
31672 1999 JB_8	14.1	X	141.24030	83.24641	61.61937	22.95554	0.1459360	0.27729861	2.3290077	21	7 25.0	18.1
31673 1999 JZ_8	14.3	X	96.54176	3.57028	94.57089	9.65787	0.1710444	0.26526051	2.3989488	21	4 3.8	17.3
31674 1999 JD_9	13.4	X	105.29868	267.99101	80.12940	14.31384	0.0697894	0.20518789	2.8468740	21	—	—
31675 1999 JO_{10}	14.2	X	25.18444	276.71232	115.81715	13.15033	0.0150504	0.20212586	2.8755536	21	12 26.8	18.2
31676 1999 JN_{16}	14.4	X	68.58717	201.72310	225.48347	3.27504	0.0883428	0.21049749	2.7987972	21	1 3.0	17.9
31677 Audreyglende	15.0	X	70.24143	196.32340	9.25904	6.13832	0.0782947	0.27421760	2.3464204	21	7 8.6	17.8
31678 1999 JX_{18}	14.3	X	85.34193	329.60913	266.98882	5.95849	0.0699034	0.27930521	2.3178395	21	9 7.9	17.3
31679 Glenngrimmett	14.3	X	177.11011	184.91040	18.78508	5.13391	0.0821473	0.24293330	2.5437710	21	11 9.4	18.1
31680 Josephuitt	14.7	X	162.65213	295.68870	227.36416	8.38454	0.1056293	0.23663078	2.5887407	21	8 30.4	18.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
31681 1999 JH_{21}	14.4	X	318.55640	329.53236	228.57469	10.63160	0.1240299	0.21536687	2.7564500	21	1 2.1	18.3
31682 Kinsey	14.7	X	312.88531	242.05634	343.88895	4.97615	0.0603672	0.26154702	2.4216025	21	2 1.6	17.8
31683 1999 JJ_{22}	14.0	X	262.25967	60.40262	284.09291	4.84422	0.0397330	0.22513636	2.6761202	21	5 9.5	17.7
31684 Lindsay	14.4	X	295.61931	345.47415	240.71210	3.85692	0.0789063	0.21508170	2.7588859	21	1 16.1	18.2
31685 1999 JB_{25}	13.3	X	197.35651	43.81372	20.95049	13.47919	0.1574364	0.22817314	2.6523227	21	5 30.7	17.8
31686 1999 JL_{26}	14.3	X	6.04104	69.88757	76.41796	3.83576	0.1106946	0.21543622	2.7558585	21	1 6.5	17.4
31687 1999 JP_{26}	14.1	X	92.28204	105.06098	165.81424	2.36101	0.0202648	0.19536154	2.9415530	21	10 20.3	18.2
31688 Bryantliu	14.1	X	284.63165	74.71089	184.91979	2.12008	0.0431141	0.21719288	2.7409787	21	2 18.1	17.8
31689 Sebmellen	14.3	X	340.70628	182.97764	84.16539	2.06757	0.1298497	0.17982215	3.1086651	21	5 10.5	18.0
31690 Nayamenezes	14.3	X	243.87269	193.12307	112.92037	0.13450	0.1363013	0.17189418	3.2035286	21	2 27.5	19.2
31691 1999 JO_{30}	13.8	X	187.00907	245.61568	259.57071	9.22856	0.0575118	0.19150514	2.9809115	21	8 30.9	18.4
31692 1999 JQ_{31}	14.0	X	352.49130	132.60982	53.37383	6.62012	0.0356474	0.26149808	2.4219047	21	2 7.9	17.0
31693 1999 JC_{32}	13.9	X	0.99321	179.62688	55.80421	14.22859	0.1243798	0.22364128	2.6880339	21	4 30.1	16.8
31694 1999 JO_{32}	13.1	X	123.00740	319.37260	66.12749	10.71836	0.0759462	0.16814198	3.2510123	21	2 2.9	17.9
31695 1999 JQ_{32}	13.4	X	11.56708	128.56882	56.46392	14.38419	0.1505278	0.22020076	2.7159609	21	3 14.1	16.6
31696 Rohitmital	14.2	X	129.41533	206.41205	209.50534	3.06443	0.0630435	0.21772000	2.7365528	21	3 5.6	18.1
31697 Isaiahoneal	14.5	X	216.12317	233.30047	53.69228	4.48212	0.0659284	0.21137891	2.7910114	21	1 6.0	18.6
31698 Nikolaiortiz	14.3	X	124.53060	337.76732	264.99134	1.07421	0.0379719	0.19562034	2.9389579	21	10 24.6	18.4
31699 1999 JA_{36}	14.1	X	14.83812	91.24194	109.03238	4.87409	0.0957178	0.17688073	3.1430337	21	4 12.3	18.0
31700 Naperez	14.3	X	263.20100	227.02078	65.62888	2.39161	0.1468522	0.17199481	3.2022789	21	3 2.6	19.2
31701 Ragula	14.7	X	6.67487	330.60101	220.74570	2.64891	0.0200929	0.21889418	2.7267578	21	3 11.9	18.3
31702 1999 JD_{41}	13.4	X	80.53954	209.12212	71.17751	11.32376	0.0226764	0.23858452	2.5745888	21	10 27.3	16.9
31703 1999 JZ_{43}	13.1	X	293.20621	89.43440	276.93808	9.06071	0.1479694	0.18466082	3.0541208	21	7 4.9	17.3
31704 1999 JZ_{44}	13.8	X	29.23543	326.39347	228.47112	16.40898	0.1576456	0.17813226	3.1282947	21	4 28.4	17.3
31705 1999 JM_{45}	13.4	X	13.61926	114.91827	57.49611	11.80551	0.1384514	0.17381812	3.1798455	21	3 9.1	17.3
31706 Singhani	14.9	X	80.60755	68.95180	166.18444	4.70973	0.1315144	0.18816382	3.0160970	21	9 4.6	19.1
31707 1999 JH_{49}	14.0	X	271.24987	240.86317	59.99833	6.14096	0.1090575	0.17423905	3.1747222	21	3 26.2	18.8
31708 1999 JL_{49}	14.5	X	22.73778	1.07089	224.56406	5.99030	0.2182477	0.22475674	2.6791328	21	5 30.9	16.7
31709 1999 JD_{51}	13.9	X	167.72677	60.80328	221.88791	11.74261	0.0876197	0.20394472	2.8584312	21	—	—
31710 1999 JC_{52}	14.0	X	36.98625	119.23904	30.18374	5.66627	0.1619813	0.17405892	3.1769121	21	3 16.4	17.7
31711 Suresh	14.2	X	88.45976	337.87352	76.48979	9.27878	0.0830488	0.21100923	2.7942703	21	1 15.9	17.9
31712 1999 JZ_{52}	13.9	X	316.32241	144.63519	81.80938	6.44588	0.1000718	0.17138621	3.2098553	21	2 19.3	18.3
31713 1999 JF_{54}	14.1	X	335.79883	117.16858	91.60823	2.17248	0.1728098	0.17220762	3.1996402	21	2 12.3	18.1
31714 1999 JP_{54}	13.3	X	18.31063	118.62572	268.24170	8.37525	0.0889343	0.24252665	2.5466137	21	12 29.2	16.4
31715 1999 JX_{56}	14.1	X	279.21538	201.27493	80.08975	11.89347	0.0642856	0.17298338	3.1900669	21	3 21.1	18.9
31716 Matoonder	14.4	X	55.11237	90.22068	162.21942	3.45666	0.1573067	0.18620537	3.0372084	21	8 28.5	18.3
31717 1999 JA_{58}	12.9	X	73.65984	148.68151	61.99312	10.57094	0.0334130	0.18379925	3.0636576	21	7 12.6	17.3
31718 1999 JO_{58}	13.7	X	146.55612	270.04816	236.92021	12.69457	0.1327569	0.23094984	2.6310207	21	7 24.2	18.1
31719 Davidyue	14.3	X	62.22219	353.83188	197.17248	2.43774	0.1454778	0.22579728	2.6708956	21	6 15.5	17.4
31720 1999 JW_{59}	14.0	X	351.53636	70.92426	217.82543	10.49218	0.1456236	0.18203837	3.0833827	21	6 26.0	17.6
31721 1999 JB_{60}	14.0	X	229.79655	336.73607	234.94861	14.35251	0.2224892	0.20478258	2.8506291	21	12 23.5	18.4
31722 1999 JG_{61}	13.5	X	294.38690	172.59314	85.72726	9.87209	0.0792025	0.17141336	3.2095164	21	3 7.8	18.2
31723 1999 JT_{61}	13.2	X	172.89055	16.73013	66.28747	16.04878	0.2899788	0.22551906	2.6730918	21	6 5.1	18.0
31724 1999 JJ_{64}	12.9	X	169.43252	55.27171	67.93091	8.34559	0.1614204	0.18487511	3.0517603	21	7 21.6	18.0
31725 Anushazaman	14.5	X	338.68739	155.37698	108.25003	3.30115	0.0556454	0.22525667	2.6751673	21	5 6.6	17.7
31726 1999 JA_{67}	14.0	X	332.35622	112.98636	106.07670	6.31549	0.1186793	0.17462692	3.1700194	21	2 28.4	18.1
31727 Amandalewis	15.0	X	177.28856	352.45626	153.85598	3.85370	0.0449839	0.23579319	2.5948677	21	8 29.2	18.6
31728 Rhondah	14.8	X	355.91222	18.70020	176.93449	5.09124	0.0961359	0.21940397	2.7225325	21	2 24.3	18.2
31729 Scharmen	14.2	X	107.26832	208.15255	164.91717	8.39596	0.1079143	0.21030149	2.8005360	21	—	—
31730 1999 JV_{70}	14.0	X	15.69762	120.59117	194.05059	12.62787	0.0889375	0.19027847	2.9937092	21	9 9.3	17.9
31731 Johnwiley	14.8	X	223.75810	322.99978	170.94035	7.26336	0.0828856	0.24042233	2.5614518	21	10 6.0	18.2
31732 1999 JB_{71}	13.5	X	111.85449	189.67683	63.39426	15.69720	0.1432213	0.23927909	2.5696041	21	11 8.7	17.5
31733 1999 JP_{71}	13.0	X	213.30651	254.02860	87.31723	8.04121	0.1259489	0.17337318	3.1852836	21	3 16.6	18.2
31734 1999 JT_{71}	13.6	X	185.83827	253.60169	189.49321	9.50146	0.0698221	0.18447990	3.0561173	21	6 16.6	18.3
31735 1999 JJ_{72}	12.8	X	143.91133	99.59360	70.88867	13.20991	0.0122677	0.18910830	3.0060462	21	8 21.4	17.3
31736 1999 JR_{73}	14.1	X	345.22908	162.19337	188.41985	10.23807	0.1139669	0.18961094	3.0007314	21	9 9.4	17.7
31737 Carriecoombs	14.3	X	140.28778	127.09282	317.22148	6.00392	0.0786781	0.26925253	2.3751781	21	4 19.2	17.5
31738 1999 JC_{77}	13.4	X	111.27280	267.65288	177.90254	16.59095	0.1054205	0.17633585	3.1495050	21	4 3.3	17.9
31739 1999 JE_{77}	14.2	X	33.17122	137.45360	158.02118	10.44133	0.0892493	0.19024757	2.9940334	21	9 13.7	17.9
31740 1999 JW_{77}	14.0	X	61.14616	22.73919	187.77936	10.34169	0.0584406	0.18310482	3.0713987	21	6 27.5	18.3
31741 1999 JG_{78}	13.9	X	59.76488	273.38656	29.94653	14.51352	0.2031314	0.23753802	2.5821450	21	11 17.8	17.7
31742 1999 JA_{79}	14.3	X	50.84222	102.36773	121.05016	14.96095	0.1476610	0.22916957	2.6446290	21	7 13.6	17.4
31743 1999 JK_{79}	12.9	X	164.15250	325.68616	78.88175	10.42774	0.0887139	0.17544523	3.1601547	21	4 12.9	17.8
31744 Shimshock	14.6	X	351.77219	322.61871	211.77690	8.60952	0.0908752	0.21537633	2.7563693	21	1 21.0	18.2
31745 1999 JN_{82}	13.8	X	346.36707	122.82596	155.02498	10.64408	0.0588444	0.18295331	3.0730941	21	6 9.3	18.0
31746 1999 JP_{82}	13.6	X	3.14035	233.06719	93.99270	12.08982	0.0970589	0.19034347	2.9930276	21	9 15.2	17.5
31747 1999 JD_{83}	14.1	X	48.36094	51.23319	152.02060	9.15766	0.1669356	0.18142622	3.0903145	21	6 15.5	18.0
31748 1999 JG_{83}	13.3	X	319.98709	117.48648	120.25093	12.37604	0.1184276	0.17375902	3.1805664	21	3 8.0	17.7
31749 1999 JV_{83}	13.7	X	340.72151	72.91733	167.60805	15.38519	0.1848498	0.17584704	3.1553389	21	3 31.9	17.4
31750 1999 JQ_{84}	14.1	X	62.32920	14.29130	151.93697	15.70481	0.2643486	0.22446995	2.6814142	21	6 3.8	17.5
31751 1999 JF_{85}	12.7	X	222.36077	227.48678	107.93497	17.50870	0.1699639	0.17512144	3.1640488	21	3 19.0	18.2
31752 1999 JN_{91}	14.7	X	203.70631	49.10401	93.84620	14.04366	0.1064103	0.23878769	2.5731282	21	9 28.6	18.8
31753 1999 JL_{94}	13.5	X	280.67513	170.40321	105.17247	17.37348	0.0579504	0.17336558	3.1853767	21	3 17.4	18.4
31754 1999 JT_{95}	14.0	X	244.25972	262.87967	160.59707	10.22931	0.0663224	0.18713627	3.0271277	21	7 27.1	18.4
31755 1999 JA_{96}	13.8	X	26.53467	217.54928	136.49004	12.95074	0.0706307	0.19575750	2.9375850	21	11 20.1	17.9
31756 1999 JL_{98}	12.7	X	156.50521	287.10861	135.68270	19.68660	0.2203133	0.17656455	3.1467847	21	5 6.6	18.4
31757 1999 JO_{98}	13.9	X	31.61801	100.35349	178.65979	15.96012	0.0527233	0.18638439	3.0352632	21	8 12.5	18.2
31758 1999 JQ_{99}	14.4	X	134.47477	351.88024	145.49917	14.11781	0.2134115	0.22955004	2.6417059	21	7 9.1	18.9
31759 1999 JT_{99}	14.2	X	235.53255	248.72820	153.60145	15.64583	0.0940174	0.22663933	2.6642759	21	6 18.7	18.4
31760 1999 JG_{101}	13.9	X	303.01586	340.92103	105.48352	13.51632	0.1373410	0.24123521	2.5556944	21	11 21.1	16.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
31761 1999 JO_{103}	13.7	X	101.29367	253.61587	134.40159	8.53688	0.2363498	0.21024884	2.8010035	21	1 21.7	17.3
31762 1999 JB_{104}	12.6	X	133.45988	358.97491	93.01022	18.34330	0.0838484	0.18090511	3.0962463	21	5 9.0	17.4
31763 1999 JW_{107}	14.0	X	242.08322	331.85574	156.65997	2.18906	0.1001117	0.19768600	2.9184490	21	10 13.3	18.0
31764 1999 JB_{108}	14.2	X	264.59088	286.15587	37.97648	6.09074	0.1242760	0.17715933	3.1397377	21	4 12.0	18.9
31765 1999 JG_{114}	14.1	X	193.29218	192.55710	228.08188	11.04695	0.1693851	0.22518704	2.6757187	21	5 25.2	18.6
31766 1999 JD_{116}	14.3	X	290.79848	272.35798	99.32770	10.45995	0.0828487	0.18529255	3.0471751	21	7 19.1	18.4
31767 Jennimartin	15.1	X	258.36650	271.70553	219.84204	5.90895	0.1776155	0.24418824	2.5350482	21	11 1.1	18.4
31768 1999 JA_{117}	14.7	X	176.78368	189.40103	329.14932	3.70736	0.2163866	0.23728096	2.5840096	21	9 9.0	19.1
31769 1999 JL_{117}	13.5	X	1.52644	296.76996	62.65583	11.64513	0.1249418	0.19161999	2.9797203	21	10 25.5	17.1
31770 Melivanhouten	14.5	X	157.10552	181.55780	111.84617	3.20403	0.0421976	0.20461039	2.8522281	21	—	—
31771 Kirstenwright	14.4	X	266.86963	105.35984	202.18722	9.33587	0.0718653	0.17400963	3.1775120	21	3 30.2	19.0
31772 Asztalos	14.4	X	260.87304	333.88554	224.83558	8.70992	0.0778417	0.20563787	2.8427193	21	—	—
31773 1999 JL_{121}	13.4	X	274.70148	310.78123	78.31351	9.99379	0.1022286	0.18440638	3.0569295	21	7 17.8	17.7
31774 Debralas	14.6	X	62.31976	98.13730	144.81393	2.59842	0.1260161	0.18543352	3.0456306	21	8 21.5	18.7
31775 1999 JN_{122}	13.7	X	51.67954	8.24499	279.17076	7.62686	0.1729680	0.27755684	2.3275629	21	10 19.2	16.7
31776 1999 JE_{124}	13.2	X	333.35416	345.30783	90.19939	16.53946	0.1053222	0.24228034	2.5483394	21	12 26.6	15.9
31777 Amywinegar	14.0	X	117.76344	182.53331	118.36888	3.12423	0.0545934	0.19957937	2.8999619	21	12 28.4	18.3
31778 Richardschnur	14.6	X	171.16830	334.60908	100.18446	7.38955	0.0904590	0.27164706	2.3611996	21	5 19.1	17.9
31779 1999 JO_{129}	14.4	X	262.74860	317.35866	115.89281	11.89781	0.1767844	0.23551948	2.5968777	21	8 22.1	18.0
31780 1999 JB_{136}	13.5	X	128.34202	187.35627	5.06011	10.54297	0.0381537	0.19128411	2.9832074	21	8 30.3	17.8
31781 1999 KZ_{2}	14.8	X	19.52067	34.99531	83.00171	3.00511	0.0202612	0.21126274	2.7920344	21	—	—
31782 1999 KM_{6}	13.2	X	311.94730	60.42216	114.75514	16.77211	0.2795955	0.21105293	2.7938846	21	—	—
31783 1999 KV_{9}	13.6	X	334.14080	64.65506	236.29658	8.57860	0.0828670	0.18254028	3.0777280	21	6 18.1	17.5
31784 1999 KB_{11}	14.1	X	85.99497	203.41799	268.37771	3.49833	0.1370872	0.26359953	2.4090157	21	3 24.6	16.9
31785 1999 KK_{13}	14.3	X	162.90370	309.69113	77.17268	4.10443	0.0669145	0.21507495	2.7589436	21	3 12.3	18.3
31786 1999 KO_{13}	13.7	X	324.73418	57.92491	264.49456	10.87775	0.0747833	0.22672643	2.6635935	21	7 2.6	17.0
31787 Darcylawson	14.3	X	332.74125	104.20510	86.45777	7.06638	0.1162931	0.21351383	2.7723755	21	1 14.8	18.0
31788 1999 KQ_{14}	13.0	X	73.07831	55.47861	78.58273	17.76674	0.0981186	0.17414384	3.1758791	21	4 21.4	17.5
31789 1999 KA_{15}	13.8	X	17.56741	106.29293	108.37067	9.45824	0.1546788	0.17662208	3.1461014	21	5 8.3	17.5
31790 1999 LA_{1}	12.9	X	93.47192	135.42953	41.98901	13.89122	0.1000163	0.23569534	2.5955858	21	7 4.5	16.6
31791 1999 LT_{3}	13.6	X	327.66518	127.99711	107.69079	27.61485	0.0355774	0.17602786	3.1531776	21	4 4.5	18.5
31792 1999 LY_{4}	14.2	X	32.39300	16.80417	186.83983	17.48620	0.1374193	0.17922082	3.1156147	21	5 17.6	18.2
31793 1999 LB_{6}	14.6	X	123.12636	219.83971	190.46846	23.48046	0.0606876	0.38767798	1.8627531	21	1 8.5	16.9
31794 1999 LL_{9}	13.7	X	128.43818	287.92904	124.23167	8.96199	0.1758247	0.21416440	2.7667581	21	3 18.9	17.9
31795 1999 LM_{14}	14.0	X	305.88378	106.49519	129.71017	6.86695	0.0972272	0.25860112	2.4399585	21	1 31.1	17.1
31796 1999 LS_{15}	13.4	X	82.79740	317.07282	151.16540	22.48701	0.0734677	0.17107382	3.2137617	21	3 25.2	18.0
31797 1999 LN_{16}	13.9	X	294.21931	232.61583	4.92587	9.10304	0.1022774	0.21459805	2.7630296	21	1 29.3	17.9
31798 1999 LY_{16}	13.9	X	264.95102	343.76405	257.30407	4.97288	0.0184212	0.21104978	2.7939124	21	1 6.7	17.7
31799 1999 LN_{23}	13.2	X	229.18514	231.06666	265.14019	11.93008	0.1191228	0.23844482	2.5755943	21	10 3.7	17.1
31800 1999 LT_{25}	13.5	X	32.85455	312.69622	266.42185	14.02908	0.1982674	0.17868959	3.1217866	21	6 13.0	17.0
31801 1999 LY_{26}	12.4	X	318.26658	128.40247	98.22311	24.84160	0.0986498	0.16925996	3.2366810	21	2 27.0	17.2
31802 1999 LP_{30}	14.4	X	60.11932	11.11194	94.64485	3.67603	0.0510038	0.21467218	2.7623934	21	2 6.5	17.8
31803 1999 LN_{32}	14.7	X	93.77138	0.84587	143.23452	14.78178	0.1998095	0.22493417	2.6777237	21	6 6.9	18.7
31804 1999 MG	14.1	X	156.16715	36.21397	87.76693	14.10834	0.1177958	0.22386719	2.6862252	21	7 7.6	18.2
31805 1999 NN_{5}	12.4	X	271.61278	80.37449	261.75140	20.47645	0.0274471	0.17380597	3.1799936	21	5 24.5	17.0
31806 1999 NE_{11}	11.6	X	302.81637	193.02711	136.73560	34.09516	0.0959666	0.08325351	5.1943875	21	6 18.4	18.6
31807 Shaunalennon	14.3	X	168.46174	244.44724	306.23547	7.83357	0.1516297	0.23493944	2.6011502	21	10 8.9	18.6
31808 1999 NR_{34}	13.8	X	65.27247	61.73226	107.30060	9.20538	0.1259366	0.21764373	2.7371921	21	5 20.3	17.2
31809 1999 NS_{36}	12.8	X	199.40654	114.36404	324.71911	15.71169	0.1031161	0.17490222	3.1666921	21	6 27.2	17.9
31810 1999 NR_{38}	13.2	X	314.73739	177.14857	350.86930	8.11134	0.1082199	0.20239029	2.8730483	21	—	—
31811 1999 NA_{41}	13.2	X	85.57462	246.30725	331.78373	9.58414	0.0353916	0.17862968	3.1224845	21	8 7.4	17.5
31812 1999 NL_{47}	13.6	X	281.68598	5.44938	264.42022	8.76383	0.1128550	0.21241453	2.7819324	21	2 15.9	17.7
31813 1999 RF_{41}	15.7	X	1.01540	244.37460	162.75161	23.01812	0.1306575	0.36683291	1.9326677	21	—	—
31814 1999 RW_{70}	12.2	X	301.17377	0.93165	326.33750	4.44250	0.0706031	0.08020838	5.3250403	21	6 9.7	19.1
31815 1999 RY_{111}	13.4	X	146.47449	257.65063	297.47973	12.53906	0.1275607	0.23001861	2.6381171	21	9 20.3	17.8
31816 1999 RZ_{117}	13.0	X	132.53920	343.63642	285.44017	9.80286	0.0743286	0.19099868	2.9861788	21	12 5.3	17.5
31817 1999 RK_{134}	11.9	X	161.68779	191.19133	270.36119	6.27626	0.1472720	0.12450496	3.9720217	21	6 17.4	18.0
31818 1999 RM_{135}	12.2	X	103.47928	170.70594	339.93638	22.64699	0.0593222	0.17056568	3.2201414	21	6 3.4	17.3
31819 1999 RS_{150}	11.4	X	17.37934	281.51043	348.63315	14.33215	0.0088193	0.08211026	5.2424920	21	7 13.8	18.4
31820 1999 RT_{186}	12.1	X	351.50543	90.38317	193.28808	2.37322	0.0797107	0.08081232	5.2984765	21	6 24.2	18.7
31821 1999 RK_{225}	12.1	X	301.92891	177.59300	146.70042	10.75458	0.0613464	0.08221702	5.2379524	21	6 9.9	19.0
31822 1999 SY_{4}	12.3	X	153.29282	316.16958	26.57825	6.38152	0.0447812	0.15609838	3.4161515	21	1 14.6	17.4
31823 Viète	14.6	X	245.89492	65.81420	28.10215	24.19768	0.3590591	0.21663597	2.7456742	21	8 19.2	19.7
31824 Elatus	10.1	X	205.05401	281.55475	87.14273	5.24576	0.3844199	0.02440518	11.7710374	21	4 11.9	22.1
31825 1999 UL_{13}	15.2	X	314.97443	114.22065	311.72421	1.50903	0.1910299	0.27095846	2.3651984	21	11 14.3	16.7
31826 1999 VM_{2}	13.3	X	22.35132	250.56997	241.67314	23.71095	0.0891982	0.23787151	2.5797311	21	1 3.3	16.7
31827 1999 VJ_{13}	15.1	X	56.83814	132.93884	52.16784	25.22349	0.1055462	0.38239382	1.8798743	21	5 9.8	15.9
31828 1999 VU_{199}	12.6	X	162.81738	106.05755	128.66539	15.52675	0.2421162	0.18234249	3.0799533	21	11 26.4	18.2
31829 1999 XT_{12}	13.3	X	303.26999	65.20293	130.67592	10.52805	0.0291204	0.19033079	2.9931606	21	1 1.1	17.6
31830 1999 XT_{59}	13.2	X	59.94894	308.62657	74.70155	11.59846	0.0838665	0.18519225	3.0482752	21	—	—
31831 1999 YL	15.1	X	278.45705	307.22521	229.82794	22.39010	0.0686078	0.36559712	1.9370204	21	—	—
31832 2000 AP_{59}	14.7	X	79.58809	340.96450	309.86517	6.58408	0.2644879	0.30560280	2.1828866	21	12 10.1	18.3
31833 2000 AW_{123}	14.1	X	17.11183	77.10326	148.67342	13.46248	0.1360617	0.24287412	2.5441842	21	5 16.7	17.0
31834 2000 AL_{142}	14.4	X	341.57039	345.41568	265.60764	8.69609	0.1541132	0.23962309	2.5671443	21	4 3.9	17.5
31835 2000 BK_{16}	11.5	X	332.32735	350.80858	74.84671	15.12869	0.0523677	0.08482593	5.1299953	21	11 12.5	18.1
31836 Poshedly	15.3	X	337.65566	28.35779	275.07114	5.47130	0.1516545	0.29482641	2.2357597	21	6 17.7	16.8
31837 2000 CB_{35}	14.1	X	209.31159	168.40653	142.12380	14.11178	0.1813106	0.23384539	2.6092569	21	1 24.0	18.5
31838 Angelarob	14.3	X	144.39722	18.68004	273.04939	5.80364	0.1191612	0.26555447	2.3971781	21	—	—
31839 Depinto	15.9	X	257.48709	318.59992	234.60527	1.63297	0.1245300	0.26759758	2.3849609	21	—	—
31840 Normnegus	15.8	X	103.01538	337.42977	277.24992	4.25256	0.1483374	0.30054213	2.2073226	21	11 5.9	19.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
31841 2000 CQ_{70}	14.1	X	252.49845	8.96674	303.48322	6.40746	0.1386340	0.28147015	2.3059390	21	2 27.8	17.5
31842 2000 CF_{77}	15.2	X	154.16847	230.52164	5.60969	1.97768	0.1452135	0.25737958	2.4476726	21	11 26.8	19.0
31843 2000 CQ_{80}	15.0	X	51.79931	120.42714	172.83476	20.34147	0.2923038	0.30121905	2.2040144	21	11 23.6	18.6
31844 Mattwill	15.4	X	16.44876	240.22345	50.61206	5.08853	0.1812424	0.29244643	2.2478733	21	9 3.9	17.1
31845 2000 DK_{17}	16.3	X	212.05854	150.72775	148.84203	2.72401	0.2633462	0.31870298	2.1226512	21	1 4.0	19.9
31846 Elainegillum	16.2	X	212.79474	137.84284	164.58578	3.22806	0.1774780	0.27466498	2.3438718	21	1 11.6	20.0
31847 2000 DQ_{96}	14.1	X	161.60423	168.09293	114.88866	0.43753	0.2020902	0.17466244	3.1695896	21	—	—
31848 Mikemattei	14.6	X	276.29020	157.51709	26.86885	13.40197	0.1698530	0.26487658	2.4012664	21	—	—
31849 2000 EZ_{21}	16.0	X	94.89197	348.91173	11.61940	21.26487	0.0821069	0.36021063	1.9562831	21	—	—
31850 2000 EB_{22}	15.4	X	164.26044	328.64980	28.39258	21.12452	0.0816673	0.36795626	1.9287321	21	1 6.2	18.0
31851 2000 EK_{40}	16.1	X	165.43192	118.17017	165.78491	3.01013	0.1653250	0.30947934	2.1646197	21	—	—
31852 2000 EO_{43}	14.7	X	300.69693	309.81719	21.55061	5.95333	0.2229992	0.24028052	2.5624595	21	5 13.7	18.0
31853 Rahulmital	15.3	X	243.37829	285.59152	357.37325	6.87899	0.1150542	0.27311309	2.3527424	21	1 18.7	18.8
31854 Darshanashah	16.7	X	80.58679	57.34931	192.12641	2.01901	0.1055933	0.29456777	2.2370682	21	9 29.9	19.5
31855 2000 EA_{50}	14.6	X	215.72725	290.45360	4.76858	13.16113	0.1780460	0.22523747	2.6753193	21	1 16.6	19.3
31856 2000 EP_{54}	14.6	X	330.95249	269.54027	70.86547	6.14700	0.2877398	0.24329588	2.5412431	21	7 16.5	16.3
31857 2000 EG_{58}	15.6	X	157.17855	242.55080	18.33052	2.93492	0.1880900	0.30624139	2.1798509	21	—	—
31858 Raykanipe	15.7	X	275.85850	129.75972	191.14416	6.69885	0.1529935	0.28297153	2.2977753	21	4 6.1	18.6
31859 Zemaitis	16.1	X	199.60511	153.70751	121.16328	2.33043	0.1681412	0.26646325	2.3917246	21	—	—
31860 2000 ES_{68}	16.2	X	313.56386	118.53104	178.78469	3.20707	0.2472666	0.28281434	2.2986266	21	4 7.7	18.6
31861 Darleshimizu	16.3	X	216.36202	97.27622	145.06007	1.65921	0.1523807	0.26485578	2.4013921	21	—	—
31862 Garfinkle	14.9	X	125.22658	245.66906	106.80461	8.65094	0.1367743	0.26886008	2.3774889	21	—	—
31863 Hazelcoffman	15.7	X	353.16671	164.36870	114.92612	4.86266	0.1842037	0.28829372	2.2694081	21	6 9.9	17.1
31864 2000 EC_{86}	13.0	X	135.76480	203.61739	163.67006	15.61434	0.0962338	0.17947637	3.1126565	21	1 22.7	17.8
31865 2000 ED_{86}	13.8	X	236.17148	174.62337	154.26937	9.61068	0.1646446	0.23221036	2.6214907	21	3 12.1	18.0
31866 2000 EA_{94}	15.7	X	174.26312	28.38643	224.36462	6.98982	0.2053765	0.30688161	2.1768181	21	—	—
31867 2000 EG_{94}	14.1	X	334.43505	95.56162	216.10519	12.88332	0.3061533	0.24126422	2.5554895	21	6 1.9	16.3
31868 2000 EO_{97}	15.2	X	2.86245	223.11154	13.40705	6.52803	0.2564869	0.28079236	2.3096483	21	4 9.8	16.3
31869 2000 EF_{101}	14.5	X	21.64219	242.25209	39.67067	7.00059	0.2695778	0.28806987	2.2705836	21	9 17.2	16.2
31870 2000 EG_{101}	14.2	X	295.83555	289.10683	41.49694	9.79086	0.1852359	0.23825758	2.5769435	21	5 12.6	17.6
31871 2000 EA_{105}	14.2	X	24.62884	206.03158	52.35543	10.45264	0.2415992	0.24083186	2.5585471	21	8 5.1	16.7
31872 Terkán	15.8	X	318.20435	199.02918	13.35166	3.09108	0.1339932	0.27609892	2.3357494	21	1 6.8	18.7
31873 2000 EA_{130}	15.7	X	216.50868	106.70824	133.25695	3.22641	0.1321797	0.26568620	2.3963857	21	—	—
31874 2000 EF_{135}	15.0	X	224.18926	217.07199	103.08417	4.32638	0.0909346	0.27681578	2.3317151	21	2 14.2	18.4
31875 Saksena	16.6	X	102.82944	114.57644	151.58930	2.97825	0.1089792	0.29991312	2.2104078	21	11 20.1	19.7
31876 Jenkens	14.4	X	1.76727	160.47802	130.74141	13.72261	0.2573969	0.23776127	2.5805284	21	7 25.8	15.9
31877 Davideverett	15.2	X	257.19671	344.02650	285.02654	2.30044	0.1640197	0.27311565	2.3527277	21	1 10.9	18.8
31878 2000 FR_{7}	14.8	X	290.92275	315.61017	149.41285	12.92327	0.1422767	0.25885493	2.4383634	21	11 28.8	17.6
31879 2000 FL_{12}	12.9	X	280.52553	245.57385	91.22706	14.47330	0.2234468	0.19650716	2.9301091	21	5 5.8	17.5
31880 2000 FW_{12}	15.7	X	351.34406	135.44542	151.83731	3.79305	0.2068064	0.28806313	2.2706190	21	6 17.6	17.0
31881 2000 FL_{15}	16.4	X	10.56285	310.50585	198.62361	21.08010	0.1139690	0.41362179	1.7840230	21	—	—
31882 2000 FD_{20}	15.3	X	249.12214	144.76517	131.23068	9.66697	0.2023051	0.27251796	2.3561664	21	1 10.6	19.2
31883 Susanstern	15.3	X	116.75200	226.90689	84.46594	7.06840	0.0939701	0.26182182	2.4199078	21	—	—
31884 2000 FK_{27}	14.7	X	107.81631	168.24538	176.34378	2.36308	0.0791311	0.21814315	2.7330128	21	—	—
31885 Greggweger	15.8	X	148.28785	175.27247	97.45541	2.42355	0.1462547	0.25954431	2.4340437	21	—	—
31886 Verlisak	15.8	X	285.41882	128.05136	147.44581	3.61116	0.1484335	0.27738796	2.3285075	21	2 16.9	18.8
31887 2000 FM_{33}	13.2	X	229.35116	205.82856	67.85040	13.10845	0.1474638	0.22497261	2.6774187	21	—	—
31888 Polizzi	15.0	X	224.43594	143.78577	159.59952	7.31508	0.1376738	0.27298747	2.3534641	21	1 22.6	18.7
31889 2000 FW_{35}	13.7	X	109.79881	257.51217	99.57906	13.78571	0.2713125	0.26676720	2.3899075	21	—	—
31890 2000 FG_{37}	15.2	X	296.39394	181.09645	92.01523	3.48951	0.2177876	0.27717671	2.3296905	21	2 18.9	18.4
31891 2000 FR_{42}	14.1	X	40.01487	232.77886	28.69362	7.20076	0.0503732	0.24660462	2.5184611	21	8 9.9	17.2
31892 2000 FC_{43}	15.9	X	126.90550	157.12674	121.56944	2.91262	0.1043986	0.30524065	2.1846128	21	12 31.9	19.0
31893 Rodriguezalvarez	15.5	X	36.65734	234.27173	66.32092	8.22006	0.1852415	0.29462230	2.2367922	21	10 27.6	17.9
31894 2000 FD_{44}	14.6	X	263.98232	120.89401	144.27534	5.99112	0.2159609	0.27240483	2.3568187	21	1 9.2	18.4
31895 2000 FX_{44}	15.2	X	72.80310	274.23765	59.25323	5.37153	0.2929912	0.30376808	2.1916673	21	—	—
31896 Gaydarov	15.2	X	149.32930	264.75706	328.21397	5.66630	0.1167168	0.25439884	2.4667547	21	11 16.9	19.0
31897 Brooksdasilva	15.1	X	169.64215	267.73872	347.87809	6.27826	0.1051332	0.25914966	2.4365143	21	—	—
31898 2000 GC_{1}	15.5	X	276.07151	174.87768	141.58331	23.87175	0.0822982	0.37554557	1.9026590	21	4 5.7	18.0
31899 Adityamohan	16.3	X	317.81902	266.11223	47.53951	3.48044	0.1681595	0.28617824	2.2805783	21	5 22.3	18.5
31900 2000 GX_{15}	15.4	X	159.70332	330.28393	358.31629	1.76680	0.2211411	0.26766813	2.3845418	21	—	—
31901 Amitscheer	14.9	X	295.19952	170.81918	163.47044	7.33887	0.1312428	0.28320828	2.2964946	21	5 25.6	17.7
31902 Raymondwang	15.4	X	63.26607	307.93741	348.42702	2.83547	0.1753128	0.29719818	2.2238490	21	11 20.8	18.4
31903 Euniceyou	15.4	X	224.79592	253.59394	20.00506	3.87312	0.1845643	0.22198593	2.7013805	21	—	—
31904 Haoruochen	15.4	X	80.03756	204.68116	196.75026	6.63292	0.0972893	0.26892709	2.3770940	21	—	—
31905 Likinpong	15.5	X	117.52288	88.04437	196.55703	6.00545	0.1036694	0.25657748	2.4527711	21	12 20.9	19.3
31906 2000 GF_{44}	16.2	X	230.20498	298.92272	31.50122	5.76836	0.2650128	0.27517133	2.3409956	21	3 2.8	20.3
31907 Wongsumming	15.8	X	77.68509	93.95356	156.15158	1.87700	0.1229065	0.29351728	2.2424027	21	9 30.1	18.6
31908 2000 GP_{46}	15.4	X	359.17280	288.22680	14.51310	6.46546	0.2015332	0.28838389	2.2689350	21	8 13.9	16.8
31909 Chenweitung	15.8	X	167.79008	50.92957	196.39085	2.14840	0.1621074	0.25778538	2.4451032	21	12 22.7	19.5
31910 Moustafa	15.8	X	213.36756	27.91073	22.46011	9.86391	0.0978842	0.28686881	2.2769168	21	5 29.1	19.1
31911 Niklasfauth	16.2	X	106.98390	148.67070	186.27352	1.81779	0.2004905	0.26010568	2.4305403	21	—	—
31912 Lukasgrafner	15.7	X	20.07113	242.43051	35.25906	2.69864	0.1687973	0.24151888	2.5536929	21	8 12.1	18.2
31913 2000 GM_{56}	15.1	X	262.29884	291.59464	29.57335	10.80063	0.3035111	0.27651050	2.3334310	21	3 15.2	19.2
31914 2000 GL_{65}	15.3	X	166.07730	159.41402	162.68461	2.80943	0.1648729	0.31228048	2.1516559	21	—	—
31915 2000 GA_{66}	14.8	X	324.71934	300.72961	25.40653	12.15629	0.3224701	0.23806656	2.5783218	21	5 26.7	17.4
31916 Arnehensel	16.5	X	343.77439	271.23615	21.86507	1.95876	0.0883738	0.28607928	2.2811042	21	6 19.9	18.6
31917 Lukashohne	15.0	X	193.30174	58.41261	224.28468	0.48288	0.1559715	0.26428746	2.4048335	21	—	—
31918 Onkargujral	15.3	X	129.52800	129.51959	171.58226	2.83545	0.1172639	0.25897658	2.4375997	21	—	—
31919 Carragher	15.4	X	69.35750	251.69383	62.40382	1.80991	0.1593822	0.29869472	2.2164147	21	12 19.9	18.5
31920 Annamcevoy	15.9	X	47.18617	227.50494	22.31708	7.11775	0.0748573	0.28906424	2.2653734	21	8 9.9	18.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
31921 2000 GD_{71}	14.2	X	108.68157	121.32752	200.96007	5.08461	0.2023143	0.25750952	2.4468491	21	—	—
31922 Alsharif	15.1	X	24.35942	241.24641	57.28636	4.65867	0.1396095	0.29091126	2.2557746	21	9 25.1	17.2
31923 2000 GN_{73}	14.3	X	17.27202	32.98972	240.66775	3.73234	0.0498020	0.19486186	2.9465795	21	7 17.4	18.1
31924 2000 GD_{74}	15.5	X	138.17530	139.64776	198.85202	2.05953	0.2057413	0.26331212	2.4107683	21	—	—
31925 Krutovskiy	15.6	X	194.26568	285.57453	38.06185	6.36848	0.0858197	0.27001285	2.3707172	21	1 18.8	19.0
31926 Alhamood	14.2	X	282.07494	326.06478	217.32576	4.37333	0.0974697	0.21869827	2.7283860	21	—	—
31927 2000 GT_{78}	16.6	X	319.19594	78.59313	35.62533	3.25995	0.0309465	0.30777027	2.1726258	21	—	—
31928 Limzhengtheng	15.7	X	31.77321	240.58319	67.67945	1.32097	0.0842828	0.29391391	2.2403848	21	10 11.7	18.1
31929 2000 GF_{79}	15.5	X	263.97269	314.18554	30.00186	4.09805	0.2757214	0.27966636	2.3158436	21	4 12.0	19.2
31930 2000 GJ_{81}	15.4	X	341.77823	61.92980	213.70070	12.44017	0.1518780	0.23630261	2.5911370	21	5 17.2	18.0
31931 Sipiera	15.6	X	352.13588	239.75699	88.14399	1.15115	0.2523509	0.24161427	2.5530207	21	9 1.8	17.2
31932 2000 GK_{85}	13.1	X	234.54169	129.32791	158.50681	22.11222	0.0246599	0.17972230	3.1098163	21	2 1.4	17.8
31933 Tanyizhao	15.5	X	330.81537	52.16499	210.78329	6.30964	0.1610518	0.28287990	2.2982715	21	3 28.7	17.8
31934 Benjamintan	15.1	X	271.02239	172.59695	96.08902	3.39526	0.1909634	0.27316075	2.3524687	21	1 21.9	18.7
31935 Midgley	15.3	X	55.85834	190.70191	101.35109	5.91847	0.1576761	0.29487122	2.2355332	21	11 6.4	18.1
31936 Bernardsmit	15.0	X	328.21039	347.81699	282.95314	2.50909	0.1660276	0.23370537	2.6102990	21	4 11.3	18.0
31937 Kangsunwoo	15.7	X	98.52444	299.29089	307.89458	4.55415	0.1432998	0.29596515	2.2300212	21	10 20.3	18.9
31938 Nattapong	15.5	X	359.88008	63.22569	237.89575	3.64109	0.1641826	0.28901366	2.2656377	21	8 4.9	17.0
31939 Thananon	14.7	X	298.18574	334.35378	315.23688	4.24426	0.1951003	0.28041403	2.3117253	21	3 14.1	17.9
31940 Sutthiluk	15.7	X	34.94525	138.55021	146.02432	4.54529	0.1540167	0.29123087	2.2541239	21	9 23.6	17.8
31941 2000 GQ_{105}	15.2	X	316.47725	117.65595	158.75801	12.67352	0.1481746	0.27715981	2.3297852	21	4 2.1	17.9
31942 2000 GA_{106}	14.5	X	294.74663	97.90724	250.31424	3.62448	0.1610196	0.28696085	2.2764299	21	6 7.5	16.9
31943 Tahsinelmas	15.3	X	275.57538	69.64692	237.97321	5.00371	0.1763589	0.27828952	2.3234758	21	3 14.3	18.8
31944 Seyitherdem	15.7	X	284.90828	137.30830	145.47291	5.67455	0.1358820	0.27674540	2.3321104	21	2 28.0	18.7
31945 2000 GQ_{108}	14.7	X	227.10044	52.84343	124.14231	5.50852	0.0532172	0.30405402	2.1902930	21	12 21.7	17.3
31946 Sahilabbi	15.8	X	171.46075	168.46416	51.37401	8.26556	0.1074298	0.30187580	2.2008166	21	12 1.5	18.9
31947 2000 GO_{109}	14.2	X	334.98463	164.96504	167.45630	7.23864	0.3311603	0.23991347	2.5650724	21	7 4.1	16.0
31948 2000 GH_{110}	15.9	X	52.07663	56.30536	311.20662	2.24522	0.1095777	0.30704775	2.1760328	21	—	—
31949 2000 GR_{120}	15.5	X	324.81885	166.06393	187.05094	6.44947	0.2957030	0.24581776	2.5238326	21	7 17.5	17.5
31950 2000 GC_{122}	15.0	X	3.29680	185.24706	131.12833	7.60958	0.1529468	0.24235170	2.5478391	21	9 5.6	17.4
31951 Alexisallen	15.2	X	332.78364	192.61665	118.85946	4.93937	0.1945701	0.28423461	2.2909630	21	6 14.9	17.1
31952 Bialtdecelie	15.0	X	51.96940	199.89268	120.84940	5.98172	0.1701220	0.29559213	2.2318969	21	12 10.6	18.0
31953 Bontha	15.2	X	82.25748	89.81707	130.72788	4.67853	0.0605741	0.28866401	2.2674669	21	8 14.5	17.6
31954 Georgiebotev	14.7	X	26.16217	147.40121	143.03531	6.88117	0.1289199	0.28819953	2.2699025	21	9 12.5	16.9
31955 2000 GU_{126}	14.3	X	192.55464	159.32687	132.86902	6.57726	0.1952027	0.26194519	2.4191480	21	—	—
31956 Wald	14.5	X	10.33766	243.54934	212.66384	2.26397	0.0309104	0.21790429	2.7350096	21	—	—
31957 Braunstein	15.3	X	70.10779	82.31002	149.47483	5.64892	0.1318958	0.28949060	2.2631486	21	8 25.2	17.7
31958 2000 GN_{135}	14.9	X	330.24401	171.28005	151.55274	7.78785	0.2448220	0.23954003	2.5677376	21	6 21.5	17.3
31959 Keianacave	14.9	X	307.87346	192.81882	83.73506	7.00922	0.1422744	0.23132471	2.6281775	21	3 29.4	18.4
31960 2000 GC_{142}	15.1	X	150.43355	173.37403	135.73476	11.29190	0.2717853	0.26012119	2.4304437	21	—	—
31961 2000 GJ_{142}	14.9	X	316.71361	215.70026	122.60702	10.65261	0.2301746	0.28646027	2.2790811	21	6 18.8	17.0
31962 2000 GE_{153}	14.8	X	7.83029	1.89802	236.86316	6.81009	0.1497956	0.23710436	2.5852925	21	5 12.9	17.3
31963 2000 GE_{154}	15.5	X	232.20923	306.08797	284.15589	5.66851	0.1005952	0.26560926	2.3968484	21	—	—
31964 2000 GG_{161}	15.4	X	261.79841	12.80624	294.26387	1.55215	0.2279036	0.27528566	2.3403474	21	2 26.0	19.0
31965 2000 GQ_{161}	14.8	X	234.35526	212.41024	110.05907	7.06540	0.2221026	0.27336126	2.3513182	21	2 25.3	18.7
31966 2000 HR_{1}	15.9	X	137.09533	159.05232	219.29840	5.96836	0.1199943	0.26919225	2.3755327	21	1 23.9	19.1
31967 2000 HW_{4}	12.9	X	325.15102	224.26833	34.24232	24.07689	0.1969032	0.18525282	3.0476107	21	4 2.6	16.9
31968 2000 HH_{5}	16.1	X	353.17582	123.82317	45.11072	22.20720	0.0406724	0.36407562	1.9424133	21	—	—
31969 Yihuachen	15.5	X	2.17099	137.86604	150.91291	2.41495	0.0978312	0.24133656	2.5549788	21	7 17.6	18.1
31970 2000 HD_{9}	14.9	X	343.01677	101.47846	215.69922	13.28115	0.2119145	0.23969570	2.5666258	21	7 14.2	17.5
31971 Beatricechoi	15.0	X	213.41793	212.98071	64.03664	3.37664	0.1687024	0.26541232	2.3980340	21	—	—
31972 Carlycrump	16.0	X	115.21288	269.31927	217.82878	5.76502	0.0527150	0.28264805	2.2995281	21	5 15.0	18.8
31973 Ashwindatta	15.0	X	96.00953	270.58513	48.47803	7.05371	0.1491156	0.25514466	2.4619453	21	—	—
31974 2000 HG_{12}	16.0	X	213.75125	331.24661	242.37480	2.80014	0.0782659	0.30601430	2.1809292	21	—	—
31975 Johndean	14.4	X	21.44090	246.98673	347.40722	5.93674	0.1343828	0.28284076	2.2984835	21	5 29.5	16.4
31976 Niyatidesai	14.5	X	132.64506	62.96816	234.43589	1.68171	0.0907315	0.21130933	2.7916241	21	—	—
31977 Devalapurkar	15.6	X	218.32232	218.90698	236.06282	3.29941	0.0702624	0.29066936	2.2570259	21	8 9.5	18.5
31978 Jeremyphilip	15.4	X	286.04454	222.63299	14.96244	2.01634	0.1773220	0.27023060	2.3694435	21	—	—
31979 2000 HH_{14}	13.9	X	256.42161	157.34724	147.14712	13.68115	0.2004047	0.22593177	2.6698356	21	2 27.1	18.1
31980 Axelfeldmann	15.0	X	28.02191	282.22334	47.61754	3.54213	0.1709356	0.24666998	2.5180162	21	11 10.7	17.9
31981 2000 HH_{15}	15.0	X	214.04538	204.16327	89.79341	3.12829	0.2009006	0.26722839	2.3871570	21	1 4.6	19.0
31982 Johnwallis	15.0	X	235.19886	24.99471	238.73676	2.25122	0.1507976	0.17202860	3.2018596	21	1 1.7	20.2
31983 2000 HS_{21}	14.8	X	28.88346	47.68235	232.79257	11.69242	0.1698967	0.24239760	2.5475175	21	8 26.4	17.8
31984 Unger	15.5	X	252.19036	96.80819	96.55659	2.98410	0.1526627	0.26219411	2.4176166	21	—	—
31985 2000 HV_{23}	15.8	X	177.72839	185.61219	126.51551	3.41094	0.1838023	0.26464988	2.4026375	21	—	—
31986 2000 HZ_{27}	16.3	X	315.89082	301.83278	194.91684	21.33778	0.0725318	0.35688993	1.9683992	21	—	—
31987 2000 HN_{28}	15.7	X	112.65378	38.36426	307.04955	1.46003	0.2099751	0.26147605	2.4220407	21	—	—
31988 Jasonfiacco	15.5	X	43.51315	4.71950	295.18551	2.23953	0.1593841	0.29344107	2.2427909	21	10 28.3	18.0
31989 2000 HX_{33}	16.5	X	115.95224	106.89560	144.81262	3.07603	0.0794977	0.29827103	2.2185131	21	11 13.7	19.4
31990 2000 HX_{34}	15.1	X	111.87522	216.65669	60.56403	6.97816	0.0609685	0.30089076	2.2056172	21	12 11.0	18.0
31991 Royghosh	15.9	X	264.76637	171.49536	74.72497	7.10299	0.1227186	0.27091382	2.3654582	21	—	—
31992 2000 HX_{35}	15.3	X	320.54086	320.45931	278.31455	6.47933	0.2065855	0.27556985	2.3387381	21	1 31.9	18.3
31993 2000 HL_{37}	14.3	X	247.42304	149.96775	134.42174	14.15320	0.1783640	0.22305817	2.6927165	21	1 27.1	18.6
31994 2000 HR_{40}	15.3	X	172.75522	329.36255	244.54210	4.99015	0.1530500	0.30237877	2.1983754	21	11 22.8	18.3
31995 2000 HX_{40}	15.3	X	27.98238	327.30723	39.68353	7.86808	0.2085829	0.29827073	2.2185146	21	—	—
31996 Goecknerwald	16.1	X	279.71368	104.51395	201.85693	6.06384	0.1288165	0.27879952	2.3206414	21	3 24.3	19.3
31997 2000 HR_{43}	15.5	X	337.92264	123.52899	224.35134	1.99564	0.2141732	0.24257565	2.5462708	21	8 25.2	17.3
31998 2000 HN_{44}	15.8	X	154.91349	29.69315	178.50672	6.02841	0.0970904	0.29852115	2.2172738	21	10 31.3	18.9
31999 2000 HF_{47}	14.6	X	265.13672	167.86409	218.30803	13.81575	0.1647521	0.24098042	2.5574955	21	6 20.7	18.4
32000 2000 HA_{51}	15.0	X	123.92169	285.45682	43.99976	9.20429	0.2593150	0.25814664	2.4428215	21	—	—